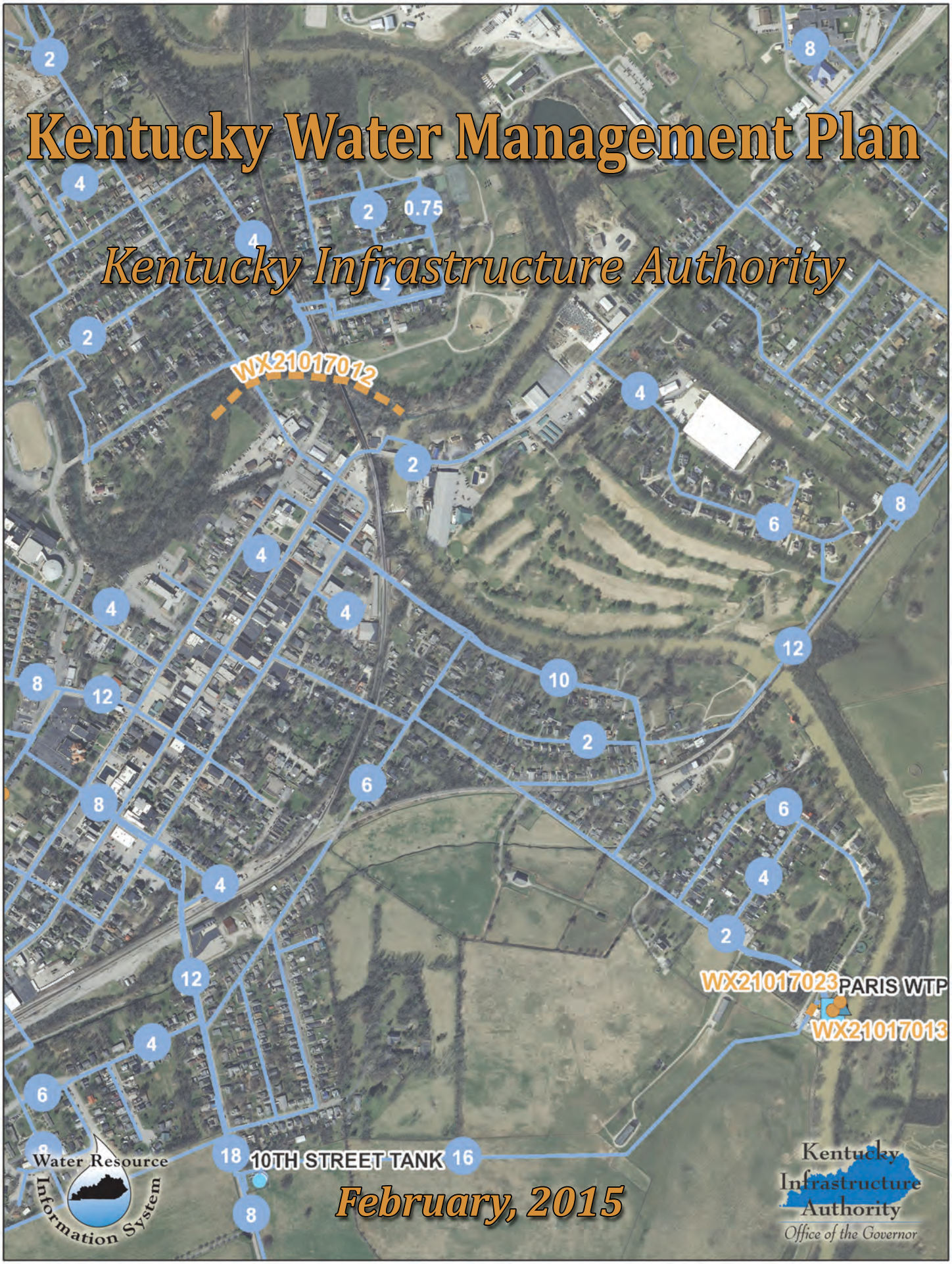

Kentucky Water Management Plan
Kentucky Infrastructure Authority
WX21017012
WX21017023
PARIS WTP
WX21017013
10TH STREET TANK
February, 2015
Water Resource Information System
Kentucky Infrastructure Authority
Office of the Governor

KENTUCKY INFRASTRUCTURE AUTHORITY

Steven L. Beshear
Governor

Capital Center Complex
1024 Capital Center Drive, Suite 340
Frankfort, Kentucky 40601
(502) 573-0260
(502) 573-0157 (fax)
kia.ky.gov

John E. Covington, III
Executive Director

February 5, 2015

Dear Governor Beshear and Members of the General Assembly:

Drinking water and wastewater infrastructure is vital to Kentucky's future. Adequate drinking water infrastructure is essential to providing clean, safe drinking water and protecting public health. Kentucky is blessed in both quantity and quality of beautiful lakes, rivers and streams. To protect these valuable natural resources, we must build and maintain the necessary wastewater infrastructure. Without both drinking water and wastewater infrastructure, our economic future and quality of life are at risk.

Kentucky has long recognized the need for adequate drinking water and wastewater infrastructure. In 2000, the Governor and General Assembly working together established a framework to plan for Kentucky's needs. Area Water Management Councils were created in each of Kentucky's Area Development Districts (ADDs), with the ADDs responsible for facilitating their meetings. The Councils are a forum for local utilities and local officials to discuss and identify each area's drinking water and wastewater needs. The Councils are tasked with reviewing and prioritizing needed projects based on local priorities.

For the Councils to successfully plan for the future, they must have information about the location and condition of existing infrastructure. The Kentucky Infrastructure Authority (KIA) was given the responsibility for maintaining and updating the Water Resource Information System (WRIS). The WRIS is a geo-database of existing infrastructure and of the projects reviewed by the Councils. The ADDs work with both the Councils and with every individual utility to gather information about each system, its existing infrastructure and its proposed projects through the creation of Project Profiles that address infrastructure needs. This document was created using the WRIS to identify and rank projects.

The WRIS facilitates a bottom up planning process and is truly a collaborative effort between the Councils, the ADDs and KIA. The information about Kentucky's drinking water and wastewater utilities, existing drinking water and wastewater infrastructure and the projects needed to maintain and improve the existing drinking water and wastewater infrastructure in the WRIS is an invaluable resource.

The Water Management Plan was developed from the project profiles of 2,089 drinking water projects with a total cost of $1,909,356,450 and 1,484 wastewater projects with a total cost of $2,026,556,842. The Water Management Plan identifies the needs and priorities of each planning council, the ranking process and the ranking of each council's projects.

KENTUCKY INFRASTRUCTURE AUTHORITY

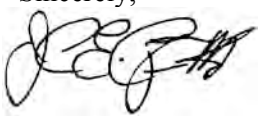
Steven L. Beshear
Governor

Capital Center Complex
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Frankfort, Kentucky 40601
(502) 573-0260
(502) 573-0157 (fax)
kia.ky.gov

John E. Covington, III
Executive Director

Kentucky should be proud of the significant improvements we have made to our drinking water and wastewater infrastructure. However, as shown in the Water Management Plan, there is still significant work to be done to meet the growing drinking water and wastewater needs and to maintain our existing infrastructure. Kentucky has in place a planning process that identifies the most important projects from both a local and a regional perspective. This document identifies the drinking water and wastewater needs across the Commonwealth that are still to be met and the projects that will address those needs.

Sincerely,



John E. Covington, III
Executive Director

When you talk to us, you talk to all of Kentucky

KCADD

KY Council of Area Development Districts

501 Capital Avenue • Frankfort, Kentucky 40601 • Office 502.875.2515 • Fax 502.875.0946

January 22, 2015

Governor Beshear and Members of the General Assembly:

The Kentucky Area Development Districts (KADD), in conjunction with our local units of government, water and sewer systems, and the Kentucky Infrastructure Authority (KIA), are pleased to be a partner in providing the enclosed Infrastructure Assessment of providers and projects in our districts. Each Area Development District (ADD) collects and updates information in the Water Resource Information System (WRIS) that is critical to the planning process. The ADD's relationship with local utilities and elected officials give us the ability to successfully maintain the information in the WRIS, which was utilized to generate this report. This information is used by numerous agencies throughout the state, and provides much of the information needed for all aspects of water planning and emergency management decision-making.

This report demonstrates the importance of these projects to the viability of our communities, by providing detail as to the affected areas, services needed, residents/businesses impacted, funding requirements, and projected timeframes for completion. Not only have these projects been identified as important within each county, but they have also been reviewed and ranked as priority projects by each ADD Regional Water Management Planning Council. The prioritization process in each ADD is critical to making sure local governments and utilities are involved with and supportive of regional infrastructure planning.

Thank you for your continued interest and support of this process. We look forward to working with you and KIA to continue the planning and development of infrastructure projects within our communities. We hope you find this data helpful, and welcome your comments, suggestions and questions now and in the future.

Sincerely,

Jody Jenkins
Union County Judge/Executive
Chairperson
Kentucky Council of Area Development Districts

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Introduction

Over fifteen years ago, the Water Resource Development Commission was tasked by Governor Paul Patton to prepare a strategic plan for water-resource development in the Commonwealth of Kentucky. The intent of Governor Patton's Executive Order was to provide water and wastewater service to every Kentuckian by the year 2020. The original strategic plan for water developed by the WRDC in 1999 not only was a great barometer for the status of water services in the Commonwealth, but also provided recommendations to be carried out over the next twenty years. Similar in format, the strategic plan for wastewater followed in early 2000. Both plans focused on expanding and improving water and wastewater services to all citizens of Kentucky. Of the original 17 recommendations, a number have already been implemented; none more important than the expansion of the Water Resource Information System (WRIS) Portal.

The WRIS Portal has been developed through the cooperative efforts of water and wastewater treatment systems and local, regional, and state agencies. The WRIS Portal provides much of the information needed for all aspects of water and wastewater planning and emergency management decision making. The WRIS portal is designed to bring together information from a multitude of sources and display that information in one easy to use web application. The Portal is linked to databases at the Kentucky Division of Water, Kentucky Department for Environmental Protection, the Kentucky Department for Local Government, the Kentucky Public Service Commission, the Kentucky Department of Education, the Kentucky Department of Parks, KyWARN, and the Kentucky Infrastructure Authority (KIA).

Not only does the WRIS Portal contain valuable system information, but it also serves as the statewide registry for water and wastewater projects in the Commonwealth of Kentucky. Multiple funding sources require applicants to have a completed Project Profile within the WRIS including the Clean Water and Drinking Water State Revolving Fund (SRF), Community Development Block Grants (CDBG), Appalachian Regional Commission (ARC), Delta Regional Authority, State and Federal Line Item Grants, and Coal Severance Grants. The WRIS Project Profile is the project database that populates the e-Clearinghouse portal for review by all state agencies.

WRIS Portal information originating from KIA is maintained by the Kentucky Area Development Districts through system visits performed annually to each drinking water system and wastewater treatment system in the Commonwealth. In addition, the Kentucky Area Development Districts facilitate the Area Water Management Councils, encompassing the Commonwealth. These Area Water Management Councils meet quarterly and by statute assume the role and function of long range planning efforts for the Public Water and Wastewater Systems represented on the Council.

As we approach the year 2020, it is important to recognize the growth of public water and wastewater systems in the Commonwealth over the past several years. Our hope is that after reading through this report, the reader will recognize that the collaborative efforts of the above mentioned local, regional, and state agencies and public water and wastewater systems have begun the framework for continued growth of sustainable infrastructure throughout the Commonwealth of Kentucky.

Water Management Plan Data Sources

The information contained in this report was acquired from several sources: U.S. Census Bureau's 2010 Census Data, the Division of Water's Safe Drinking Water Information System (SDWIS), the Environmental Protection Agency's Integrated Compliance Information System (ICIS), and the Kentucky Infrastructure Authority's Water Resource Information System (WRIS) Project Profile and System Data. Most importantly, all of the system data and project information originated with the public water and wastewater systems within this report. The information is either self reported by the public water and wastewater systems to the Area Development District Water Management Planners in a semiannual system visit, or a spatial analysis of reported information by the Kentucky Infrastructure Authority's WRIS Team.

As with any report that aggregates, interpolates, and/or extrapolates information, inconsistencies in the data will arise. However, every effort has been made to minimize the amount of inconsistent data. Please find below the explanations for several of the data sources cited in this report.

Serviceability Index – The Serviceable Population and Percent Serviceable information found in State and County Summary pages is derived from a spatial analysis of mapped service lines of public water and wastewater systems and the census blocks from the U.S. Census Bureau. The census blocks are buffered by 250 feet in order to capture a service line that may be able to serve a portion of the census block.

A census block smaller than 10 acres is considered to be fully served if a service line falls within the census block or its buffer zone of 250 feet. If a census block is considered to be fully serviced, then 100% of the census block's population and household count is allocated to the public water or wastewater system that owns the service lines within the given census block.

For a census block larger than 10 acres, an analysis is conducted comparing the ratio of service lines to road centerlines within a given census block. Once the ratio of distribution service line to road centerline is calculated, the ratio is used to allocate a portion of the census block's population and household count to the public water or wastewater system that owns the servcie lines within the given census block. If the ratio exceeds 75% of service line to road centerline, the census block is considered to be fully serviced. For any ratio smaller than 75%, the ratio is used to allocate only a portion of the census block's population and household count to the public water or wastewater system that owns the service lines located within the census block.

Project Summary –A summary of a public water and wastewater system's projects is provided at the bottom of their System Summary page. Only projects that have been approved by the Area Water Management Council and are in need of funding have been annotated in the summary. For more information on a project, please visit www.wris.ky.gov.

Estimated Percentage Water Loss – The estimated percentage water loss for each system is provided in the system's summary. This figure is an estimate calculated by dividing the amount of water provided to their customers by the system's production and/or purchase values. This information is reported to the Water Management Planners at the ADD on an annual basis. For specific system data, please visit www.wris.ky.gov.

Kentucky



- 2010 census population of 4,339,367 (1,927,164 households) with 95% serviceable.
- Projected 2020 population of 4,672,754 (change of 333,387).
- 62,271 miles of existing water lines.
- 8 new water treatment plants proposed in the next 10 years.
- 2,407 miles of line extensions proposed in the next 10 years.
- 1,260 miles of line rehabilitation proposed in the next 10 years.
- 416 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $1,680,270,204.
- Estimated funding needs for projects from 6 to 10 years: $227,434,318.
- Average age of structures: water treatment plants is 37 years; water tanks is 26 years.
- Total number of interconnected systems is 415.
- 3,075 miles of asbestos concrete pipe currently in use.
- 14,652 miles of water lines less than 15 years old.
- 14,780 miles of water lines between 15 and 30 years old.
- 17,761 miles of water lines between 31 and 50 years old.
- 6,371 miles of water lines between 51 and 70 years old.
- 3,434 miles of water lines greater than 70 years old.

Area Development District Demographic and Asset Condition Summary

Area Development District	2010 Population	2020 Population	Serviceable Population	Percent Serviceable	Planned Cost 0 to 10 Years
Bluegrass Area Development District	770,404	862,521	741,516	97%	$ 203,889,071
Barren River Area Development District	284,195	316,297	275,351	97%	$ 133,560,956
Big Sandy Area Development District	154,093	148,051	143,309	93%	$ 44,061,644
Buffalo Trace Area Development District	56,478	58,306	54,889	97%	$ 24,379,000
Cumberland Valley Area Development District	236,618	237,501	229,766	97%	$ 86,737,487
Five County Area Development District	137,884	139,098	131,544	95%	$ 44,813,673
Green River Area Development District	213,472	220,544	206,223	97%	$ 97,825,841
Gateway Area Development District	81,652	87,651	78,796	96%	$ 16,888,965
Kentuckiana Regional Planning and Development Agency	959,091	1,058,343	939,420	98%	$ 265,523,549
Kentucky River Area Development District	114,762	111,267	96,103	84%	$ 102,845,756
Lake Cumberland Area Development District	207,256	221,481	196,121	95%	$ 155,635,856
Lincoln Trail Area Development District	269,117	295,040	244,453	92%	$ 160,966,298
Northern Kentucky Area Development District	438,647	488,377	425,830	97%	$ 230,528,856
Pennyrile Area Development District	219,305	226,580	199,915	95%	$ 225,083,506
Purchase Area Development District	196,393	201,697	154,811	79%	$ 114,964,064
Demographic Totals	**4,339,367**	**4,672,754**	**4,118,047**	**95%**	**$ 1,907,704,522**

Area Development District	Average WTP Age (yrs)	Interconnected Systems	AC Pipe (mi)	Lines < 15 yrs (mi)	Lines 15 to 30 yrs (mi)	Lines 31 to 50 yrs (mi)	Lines 51 to 70 yrs (mi)	Lines > 70 yrs (mi)
Bluegrass Area Development District	43	57	525	1,417	2,883	2,148	688	1,190
Barren River Area Development District	36	42	179	1,276	1,266	2,689	1,585	20
Big Sandy Area Development District	42	14	57	2,375	103	35	4	0
Buffalo Trace Area Development District	34	16	111	555	793	254	116	27
Cumberland Valley Area Development District	35	37	27	963	1,904	606	219	44
Five County Area Development District	33	17	46	563	761	867	18	123
Green River Area Development District	34	30	183	697	1,409	1,461	264	203
Gateway Area Development District	40	29	32	644	425	835	142	12
Kentuckiana Regional Planning and Development Agency	19	15	188	48	126	1,095	413	411
Kentucky River Area Development District	23	13	44	1,156	803	312	8	0
Lake Cumberland Area Development District	38	21	55	1,343	2,382	1,598	98	162
Lincoln Trail Area Development District	46	27	97	1,566	650	890	1,372	71
Northern Kentucky Area Development District	38	24	45	706	833	1,541	206	253
Pennyrile Area Development District	42	52	845	1,086	287	2,600	691	527
Purchase Area Development District	34	21	641	257	155	830	547	391

Percent of Households Serviceable by Public Water Systems in 2010

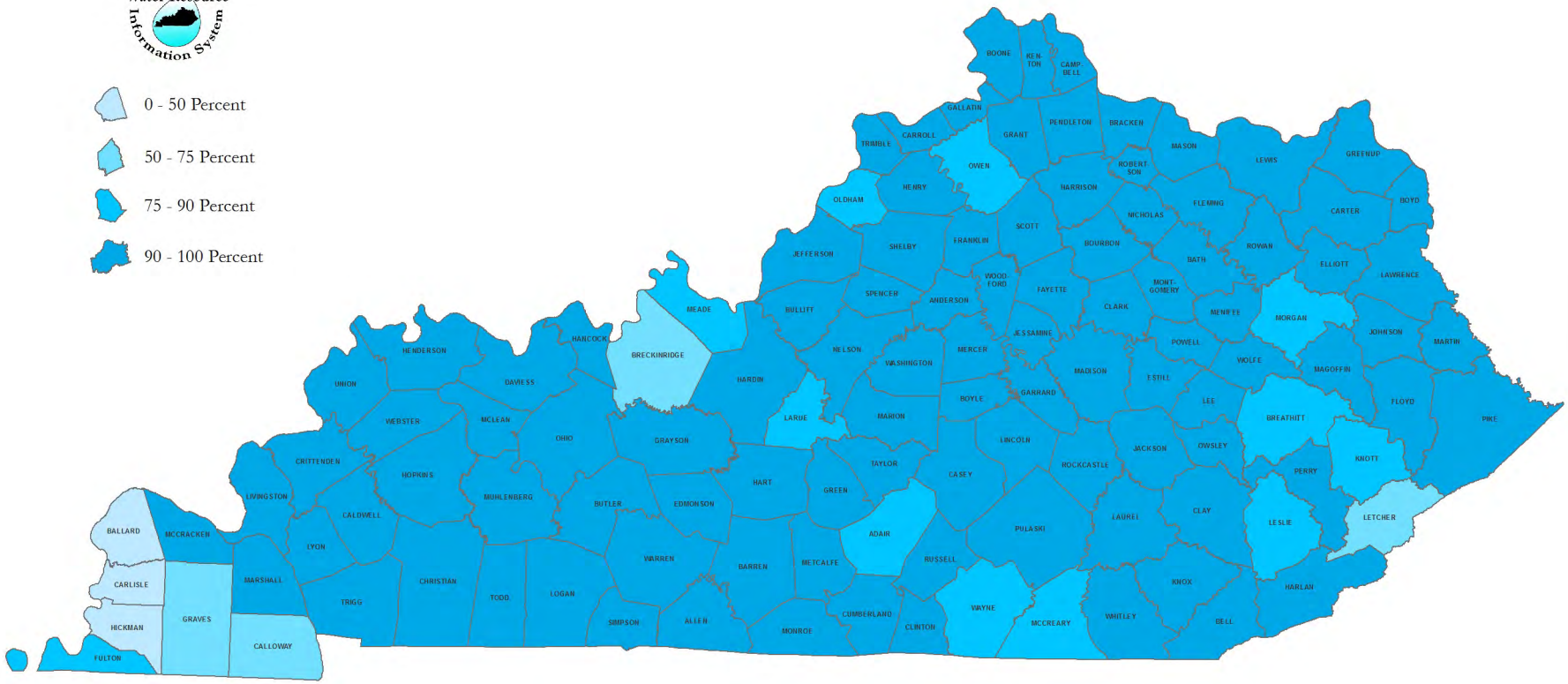
Prepared By:
Kentucky Infrastructure Authority

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1024 Capital Center Drive
Frankfort, KY 40601
(502) 573-0260
http://kia.ky.gov

February, 2015

Water Resource Information System

- 0 - 50 Percent
- 50 - 75 Percent
- 75 - 90 Percent
- 90 - 100 Percent



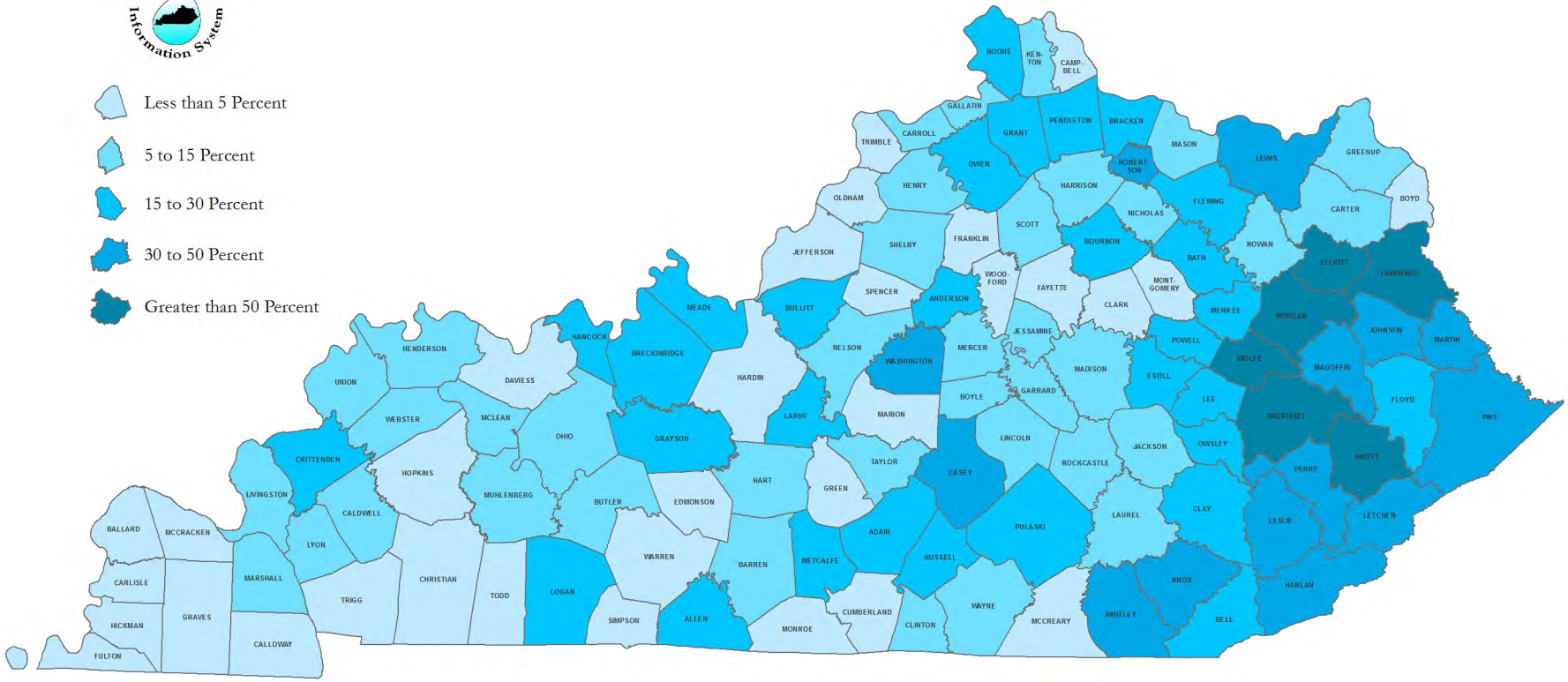
Percent Increase in Households Serviceable by Public Water Systems from 2000 to 2010

Prepared By:
Kentucky Infrastructure Authority

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Frankfort, KY 40601
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February, 2015

Water Resource Information System



Bluegrass Area Development District (BGADD)



- 2010 census population of 770,404 (340,939 households) with 97% serviceable.
- Projected 2020 population of 862,521 (change of 92,117).
- 8,723.33 miles of existing water lines.
- 66.00 miles of line extensions proposed in the next 10 years.
- 73.00 miles of line rehabilitation proposed in the next 10 years.
- 36.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $184,466,196.
- Estimated funding needs for projects from 6 to 10 years: $19,422,875.
- Average age of structures: water treatment plants is 43 years; water tanks is 30 years.
- Total number of interconnected systems is 57.
- 525 miles of asbestos concrete pipe currently in use.
- 1,417 miles of water lines less than 15 years old.
- 2,883 miles of water lines between 15 and 30 years old.
- 2,148 miles of water lines between 31 and 50 years old.
- 688 miles of water lines between 51 and 70 years old.
- 1,190 miles of water lines greater than 70 years old.

Bluegrass Area Development District has a 2010 census population count of 770,404 (340,939 households) with a projected 2020 population count of 862,521 (355,488 households). Public water is currently available to approximately 97 percent of the district's households based on 2010 census counts. Over the next ten years approximately 244 serviceable households will be added through the construction of 66.00 miles of water line extensions and approximately 156,414 instances of improved service through the rehabilitation of 73.00 miles of existing water lines and other appurtenances. 36.00 miles of transmission lines are also proposed within this district.

County Summary for Bluegrass Area Development District

County Name	2010 Population	2010 Households	2020 Population	2020 Households	Serviceable Households	Percent Serviceable	Planned Cost 0 to 10 Years
Anderson	21,421	9,127	23,555	9,582	9,105	100%	$ 740,000
Bourbon	19,985	8,927	20,530	8,478	8,784	98%	$ 4,234,000
Boyle	28,432	12,312	29,048	11,782	12,264	100%	$ 13,567,910
Clark	35,613	15,706	37,985	15,800	15,486	99%	$ 48,016,655
Estill	14,672	6,865	14,359	6,115	6,660	97%	$ 5,217,950
Fayette	295,803	135,160	334,733	141,152	126,154	93%	-
Franklin	49,285	23,164	50,777	21,761	22,996	99%	$ 39,885,000
Garrard	16,912	7,463	19,122	7,917	7,359	99%	$ 829,645
Harrison	18,846	8,208	19,640	8,006	8,149	99%	$ 7,219,887
Jessamine	48,586	19,331	58,928	22,184	19,288	100%	$ 16,447,018
Lincoln	24,742	10,819	26,170	10,762	10,566	98%	$ 7,471,231
Madison	82,916	35,043	95,333	38,093	34,819	99%	$ 29,263,429
Mercer	21,331	9,941	21,810	9,299	9,840	99%	$ 4,879,360
Nicholas	7,135	3,261	7,411	3,012	3,156	97%	$ 13,065,150
Powell	12,613	5,598	12,319	4,860	5,494	98%	$ 3,161,311
Scott	47,173	19,303	63,984	25,538	18,805	97%	$ 360,000
Woodford	24,939	10,711	26,817	11,147	10,317	96%	$ 9,530,525
Totals	**770,404**	**340,939**	**862,521**	**355,488**	**329,242**	**97%**	**$ 203,889,071**

EXISTING & PROPOSED WATER LINES

BGADD

Prepared By:
Kentucky Infrastructure Authority

Kentucky Infrastructure Authority
1024 Capital Center Drive
Frankfort, KY 40601
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January, 2013



Community Water Systems in Bluegrass Area Development District County

Note: Serviceable counts include households outside the area development district.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0030239	Lawrenceburg Water & Sewer Department	Anderson	14,769	6,331
KY0030660	South Anderson Water District	Anderson	6,338	2,653
KY0090287	Millersburg Municipal Water Works	Bourbon	937	479
KY0090322	North Middletown Water Department	Bourbon	1,051	450
KY0090343	Paris Water Works	Bourbon	12,261	5,546
KY0110097	Danville City Water Works	Boyle	23,400	10,362
KY0110345	Parksville Water District	Boyle	3,934	1,698
KY0250981	East Clark County Water District	Clark	6,169	2,669
KY0250473	Winchester Municipal Utilities	Clark	25,165	11,123
KY0330123	Estill County Water District #1	Estill	9,370	4,265
KY0330205	Irvine Municipal Utilities	Estill	4,526	2,225
KY0340250	Kentucky-American Water Company	Fayette	299,501	137,601
KY0370137	Elkhorn Water District	Franklin	1,473	624
KY0370128	Farmdale Water District	Franklin	6,198	2,445
KY0370143	Frankfort Plant Board	Franklin	36,559	18,003
KY0370346	Peaks Mill Water District	Franklin	2,872	1,251
KY0400151	Garrard County Water Association	Garrard	13,038	5,644
KY0400233	Lancaster Water Works	Garrard	3,935	1,839
KY0490096	Cynthiana Municipal Water Works	Harrison	6,634	3,073
KY0490179	Harrison County Water Association	Harrison	13,817	5,821
KY0570214	Jessamine County Water District #1	Jessamine	4,028	1,630
KY0570249	Jessamine- South Elkhorn Water District	Jessamine	7,690	2,977
KY0570315	Nicholasville Utilities	Jessamine	31,464	12,905
KY0570010	Wilmore Water Works	Jessamine	6,403	2,211
KY0690089	Crab Orchard Water Works	Lincoln	1,215	575
KY0690203	Hustonville Water Works	Lincoln	4,326	1,895
KY0690278	McKinney Water District	Lincoln	4,252	1,831
KY0690417	Stanford Water Commission	Lincoln	7,864	3,357
KY0760030	Berea Municipal Utilities	Madison	9,972	4,131
KY0760672	Kirksville Water Association	Madison	4,327	1,804
KY0760224	Madison County Utilities District	Madison	24,991	10,384
KY0760370	Richmond Water, Gas & Sewer	Madison	31,580	13,695
KY0760407	Southern Madison Water District	Madison	11,364	4,732
KY0840048	Burgin Water Department	Mercer	1,041	467
KY0840180	Harrodsburg Municipal Water Department	Mercer	8,363	4,001
KY0840587	Lake Village Water Association	Mercer	4,358	2,095
KY0840321	North Mercer Water District	Mercer	9,519	4,023
KY0910065	Carlisle Water Department	Nicholas	2,045	1,059
KY0910314	Nicholas County Water District	Nicholas	3,486	1,513
KY0990074	Clay City Water System	Powell	1,635	746
KY0990357	Powells Valley Water District	Powell	5,678	2,556
KY0990418	Stanton Water Commission	Powell	5,393	2,316
KY1050157	Georgetown Municipal Water & Sewer Service	Scott	32,984	13,650
KY1200283	Midway Municipal Water Works	Woodford	1,734	757
KY1200310	Northeast Woodford County Water District	Woodford	2,277	983

Community Water Systems in Bluegrass Area Development District County Note: Serviceable counts include households outside the area development district.				
		Primary	Serviceable Counts	
PWSID	System Name	County	Population	Households
KY1200411	South Woodford County Water District	Woodford	3,749	1,630
KY1200439	Versailles Municipal Water	Woodford	14,370	6,110
		Totals:	738,055	328,135

Bluegrass Area Development District
Regional Water Needs Assessment

Primary Need: **Repair and Replace Existing Infrastructure**
Secondary Need: **Extend Services to Unserved Areas**

Discussion of Area Development District Needs:

The Bluegrass Area Development District (BGADD) estimates that approximately 946 persons do not have access to a community water supply out of a 2010 population of 770,404 people. This is consistent with a water-unserved population of about 0.13 percent and a water-served population of about 99.87 percent. Given the high percentage of success the BGADD has had with this intiative, the primary need is the repair and replacement of existing infrastructure. The BGADD region wants to make sure that all of the progress made remains in good condition.

The secondary need in this region is to continue to extend service to unserved areas. Our goal is to not only remain at the top of this initiative but to also be the first to have 100% access to public drinking water.

Description and Determination of Planning Units:

The seventeen counties within our district are split up into seven (7) groups of two (2) to three (3) counties. These counties are adjacent to each other and have the potential to work on regional projects together. The Planning Units are designated as follows:

Planning Unit 1 Meeting - Estill and Powell

Planning Unit 2 Meeting – Bourbon, Harrison and Nicholas

Planning Unit 3 Meeting – Boyle, Garrard and Lincoln

Planning Unit 4 Meeting – Anderson and Mercer

Planning Unit 5 Meeting – Franklin, Scott and Woodford

Planning Unit 6 Meeting – Fayette and Jessamine

Planning Unit 7 Meeting – Clark and Madison

Bluegrass Area Development District
Project Ranking Methodology

The Bluegrass Area Water Management Council examined the following criteria in the ranking of water and wastewater projects for 2014:

- the current and potential customer base that would benefit;
- adequacy of existing water/wastewater infrastructure;
- optimization of scarce resources, cost per customer, and ability to pay;
- the dependability of existing infrastructure to provide adequate service;
- avoidance of duplication of service;
- current user rates as compared to the median for the region;
- Median Household Income (MHI), and
- Project type such as construction, operation, and maintenance types of projects.

To that end, a scoring matrix was developed with an available score between zero and 20 for the following seven categories:

1. Project Type: More credit was given for construction projects as opposed to projects that could be categorized as routine maintenance or operation efforts that could perhaps be financed from local revenues derived from user charges.

2. Readiness: The more committed to a project a project sponsor appeared to be, the more credit the project would be received in this scoring category. If a project had final engineering plans and specifications complete and regulatory agency approval in hand, it would receive more credit. Projects with only rough conceptual ideas would receive fewer points.

3. Enforcement Actions: If a project was in response to a state or a federal regulatory agency's enforcement action, it would receive more points. If a project was developed in an attempt to prevent a regulatory agency's enforcement action, it could be highly scored also, but perhaps not so highly scored as a utility already under an enforcement action.

4. Cost Effectiveness: Factors to be considered under this category were income levels of project area residents, cost per customer, funding already in place (be it local or non-local), project viability, and existing rates being charged.

5. Regionalization: Projects in which inter-local cooperation could in some way be demonstrated would receive more consideration than projects that were simply local in nature. Regional projects in general, tend to promote efficiency and effectiveness in utility delivery service. The Council was looking to give a boost to projects which were, in small part or in large part, regional in nature. Projects exhibiting more regional thought were given an advantage as compared to projects exhibiting less regional thought.

6. Local Rankings: This measure played heavily in the regional ranking process. A project that was first-ranked at its local ranking would receive 20 points in this scoring category; a second-ranked project, 18 points; a third-ranked project, 16 points, etc, and finally, a tenth-ranked project, 2 points. Projects locally ranked with an eleventh or twelfth ranking or higher would receive no points in the regional ranking and scoring process.

7. Best of Type: For both water projects and for wastewater projects, the first and second ranked locally ranked projects were disaggregated from the others. As a maximum, this would have resulted in a pool of 34 (17 counties x 2 projects per county) water projects and a similar pool of 34 wastewater projects. The Executive Council reviewed the project descriptions and the likely financial scenarios and ranked thsse projects top to bottom. The top 15 water projects were determined. The highest scoring project got the full 20 points; the next highest ranked project got 19 points, etc.; the 15th ranked water project received 6 points. For projects

not in the top 15, no points were awarded in this Best of Type category. The same process was repeated for wastewater projects.

A given project, if top-ranked in every category, could score 140 points.

Executive Council recommendations to the full Bluegrass Water Management Council can be modified by the full Council.

Project Rankings For Bluegrass Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21151040	Berea Utilities - Owsley Fork Reservior (Red Lick Creek MPS No. 1) Rehabilitation	0-2 Years	Partially Funded	$13,259,000	Madison	1	6
WX21113041	Nicholasville – Jessamine South Elkhorn Water District Interconn	0-2 Years	Partially Funded	$663,000	Jessamine	2	3
WX21113016	Catnip Hill Pike 750,000 Gallon Elevated Storage Tank	0-2 Years	Partially Funded	$2,000,000	Jessamine	3	1
WX21017021	Paris Water Treatment Plant Improvements	0-2 Years	Not Funded	$1,500,000	Bourbon	4	2
WX21065005	Irvine Water Treatment Plant Upgrade and Expansion	0-2 Years	Not Funded	$4,537,500	Estill	5	2
WX21197011	Water Treatment Plant Floor Repair	0-2 Years	Partially Funded	$1,186,500	Powell	6	1
WX21239026	Versailles Raw Water Main Replacement	0-2 Years	Not Funded	$1,234,500	Woodford	7	3
WX21151008	Standby Power Upgrade for Side Storage and College Hill Plant	0-2 Years	Not Funded	$2,546,700	Madison	8	1
WX21079020	Garrard County Water Association Extension 13	0-2 Years	Not Funded	$139,185	Garrard	9	1
WX21097024	Harrison County Water Association Kelat Tank Replacement	0-2 Years	Not Funded	$625,500	Harrison	10	4
WX21151053	Raw Water and High Service Pumping and Controls Modification	0-2 Years	Partially Funded	$680,000	Madison	11	4
WX21167027	City of Harrodsburg - Additional Water Line Replacements 2013	0-2 Years	Over Funded	$285,000	Mercer	12	3
WX21049015	Water Treatment Plant - 9.0 MGD	0-2 Years	Not Funded	$39,000,100	Clark	13	2
WX21021026	Danville - Corporate Drive Water Main Extension Project	0-2 Years	Partially Funded	$1,396,410	Boyle	14	4
WX21239029	City of Versailles - Water Distribution System Improvements	0-2 Years	Not Funded	$2,350,000	Woodford	15	4
WX21167028	College St. and Chestnut St. Water Lines	0-2 Years	Not Funded	$326,660	Mercer	16	2
WX21167011	Lake Village Water Association - Water Master Plan	0-2 Years	Not Funded	$75,000	Mercer	17	4
WX21113027	Nicholasville Elevated Water Storage Project	3-5 Years	Over Funded	$3,103,960	Jessamine	18	5
WX21137049	City of Crab Orchard - Deepwell Woods Road Water Line	3-5 Years	Not Funded	$300,500	Lincoln	19	3
WX21097025	City of Cynthiana West By-Pass Water Main Extension Project	0-2 Years	Not Funded	$581,774	Harrison	20	6
WX21073012	Frankfort Plant Board Reservoir Improvement Project	3-5 Years	Not Funded	$6,427,000	Franklin	21	6
WX21017019	North Middletown Water Tank Rehabilitation & SCADA	0-2 Years	Fully Funded	$680,000	Bourbon	22	5
WX21167017	Lake Village Water Association - Contract 14 Water Main West Zone Upgrades	0-2 Years	Not Funded	$1,100,000	Mercer	23	1
WX21239023	Woodford County Germany, Shore Acres, Foraker, Watts Ferry & Hippe Agee Project	3-5 Years	Not Funded	$1,254,000	Woodford	24	1
WX21079015	Lancaster - New Water Treatment Plant	0-2 Years	Fully Funded	$12,240,455	Garrard	25	5
WX21017023	Paris to Kentucky American Water System Connection	0-2 Years	Not Funded	$90,000	Bourbon	26	3
WX21113021	Jessamine Co. WD #1 - Ashgrove Pike Water System Improvements	0-2 Years	Not Funded	$625,000	Jessamine	27	2
WX21017012	City of Paris Creek Crossing Pipe Replacement Under Houston and Stoner Creeks.	3-5 Years	Not Funded	$294,000	Bourbon	28	7
WX21151055	Kirksville Water Association - Repaint Newby Tank	0-2 Years	Not Funded	$116,450	Madison	29	3
WX21151059	Whitt Road Water Line Replacement	0-2 Years	Not Funded	$165,400	Madison	30	5
WX21137047	Waynesburg Water Line Replacement (KY HWY 328)	0-2 Years	Not Funded	$85,000	Lincoln	31	6
WX21151046	Richmond Utilities 20" Water Transmission Main Replacement	3-5 Years	Not Funded	$1,479,200	Madison	32	7

Project Rankings For Bluegrass Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21021010	Perryville Standpipe Replacement	0-2 Years	Not Funded	$1,300,000	Boyle	33	2
WX21239009	Sugar Hill Road Extension	0-2 Years	Not Funded	$123,400	Woodford	34	2
WX21113037	Wilmore Elevated Storage Tank Rehabilitation	0-2 Years	Not Funded	$370,000	Jessamine	35	4
WX21239015	South Woodford Water District - Cummins Ferry Water Line Replace	0-2 Years	Not Funded	$412,000	Woodford	36	5
WX21151056	Kirksville Water Association - Welchwood Master Meter Connection	0-2 Years	Not Funded	$189,500	Madison	37	8
			Total Cost:	**$102,742,694**			

Anderson County

- 2010 census population of 21,421 (9,127 households) with 100% serviceable.
- Projected 2020 population of 23,555 (change of 2,134).
- Anderson County has 400.62 miles of existing water lines.
- There are no line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $740,000.
- There are no projects planned from 6 to 10 years.



Anderson County has a 2010 census population count of 21,421 (9,127 households) with a projected 2020 population count of 23,555 (9,582 households). Public water is currently available to approximately 100 percent of the county's households based on 2010 census counts. Over the next ten years approximately 7 instances of improved service through system wide upgrades.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Farmdale Water District	1	$740,000	-	7	-	-	-
Totals:	**1**	**$740,000**	**-**	**7**	**-**	**-**	**-**

Community Drinking Water Systems in Anderson County

Note: Serviceability counts are for households within Anderson county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0030239	Lawrenceburg Water & Sewer Department	Anderson	14,764	6,329
KY0030660	South Anderson Water District	Anderson	6,286	2,630
KY0370128	Farmdale Water District	Franklin	100	46
KY0840321	North Mercer Water District	Mercer	80	36
KY1060436	US 60 Water District	Shelby	126	59
		Totals:	21,356	9,100

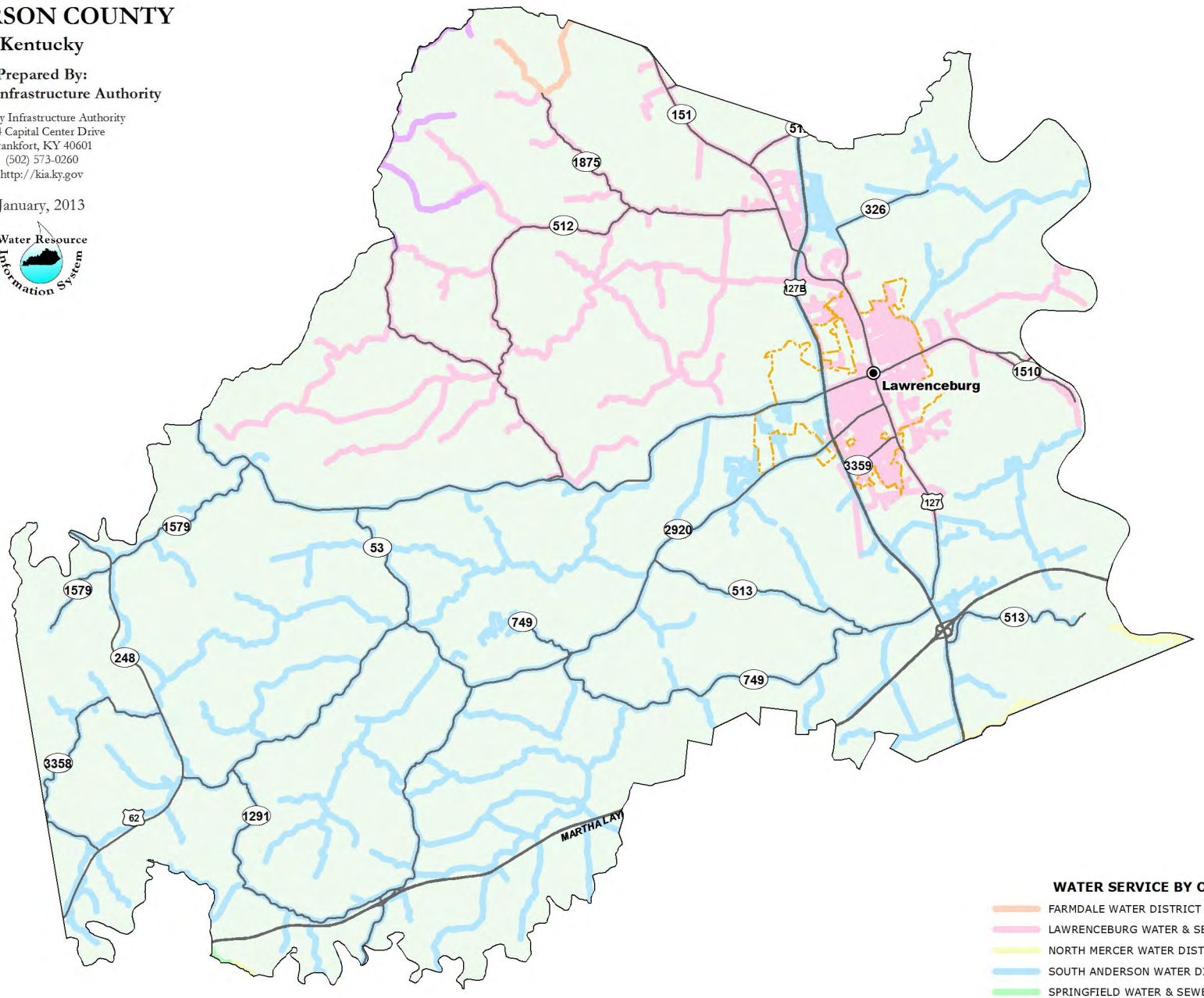
WATER SERVICE AREAS
ANDERSON COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

Kentucky Infrastructure Authority
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January, 2013

Water Resource Information System



System Summary for Lawrenceburg Water & Sewer Department

PWSID	KY0030239	Treats Water	Yes, 1 plant with total capacity of 4.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	28	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$22.54 per 4,000 gallons.	Storage Capacity	Yes, 6 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	$22.54 per 4,000 gallons.	Total Connections	6,447
Residential Customers	5,961	Total Produced (MG)	804.095
Commercial Customers	327	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	388.590
Industrial Customers	11	Total Wholesale Sold (MG)	207.577
Wholesale Customers	1	Estimated Pct. Water Loss	26%
Total Distribution System Line Length = 166.56 miles (Distribution: 166.23 miles, Transmission: 0.33 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Lawrenceburg Water & Sewer Department

System Summary for South Anderson Water District

PWSID	KY0030660	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	6	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	$37.51 per 4,000 gallons.	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 6 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	2,808
Residential Customers	2,745	Total Produced (MG)	-
Commercial Customers	55	Total Purchased (MG)	227.108
Institutional Customers	-	Total Inside Usage (MG)	135.465
Industrial Customers	-	Total Wholesale Sold (MG)	31.025
Wholesale Customers	1	Estimated Pct. Water Loss	27%

Total Distribution System Line Length = 222.43 miles (Distribution: 222.43 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for South Anderson Water District

Bourbon County

- 2010 census population of 19,985 (8,927 households) with 98% serviceable.
- Projected 2020 population of 20,530 (change of 545).
- Bourbon County has 371.13 miles of existing water lines.
- There are no line extensions proposed in the next 10 years.
- 4.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $3,934,000.
- Estimated funding needs for projects from 6 to 10 years: $300,000.



Bourbon County has a 2010 census population count of 19,985 (8,927 households) with a projected 2020 population count of 20,530 (8,478 households). Public water is currently available to approximately 98 percent of the county's households based on 2010 census counts. Over the next ten years approximately 5,819 instances of improved service through the rehabilitation of 4.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Millersburg	1	$1,400,000	-	250	-	3.00	-
City of Paris	5	$2,484,000	-	5,563	-	-	-
Judy Water Association Inc	2	$350,000	-	6	-	1.00	-
Totals:	**8**	**$4,234,000**	**-**	**5,819**	**-**	**4.00**	**-**

Community Drinking Water Systems in Bourbon County

Note: Serviceability counts are for households within Bourbon county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0090287	Millersburg Municipal Water Works	Bourbon	922	474
KY0090322	North Middletown Water Department	Bourbon	1,046	449
KY0090343	Paris Water Works	Bourbon	12,257	5,544
KY0340250	Kentucky-American Water Company	Fayette	2,101	866
KY0490179	Harrison County Water Association	Harrison	1,646	725
KY0870147	Judy Water Association	Montgomery	1,600	700
KY0910314	Nicholas County Water District	Nicholas	64	26
		Totals:	19,636	8,784

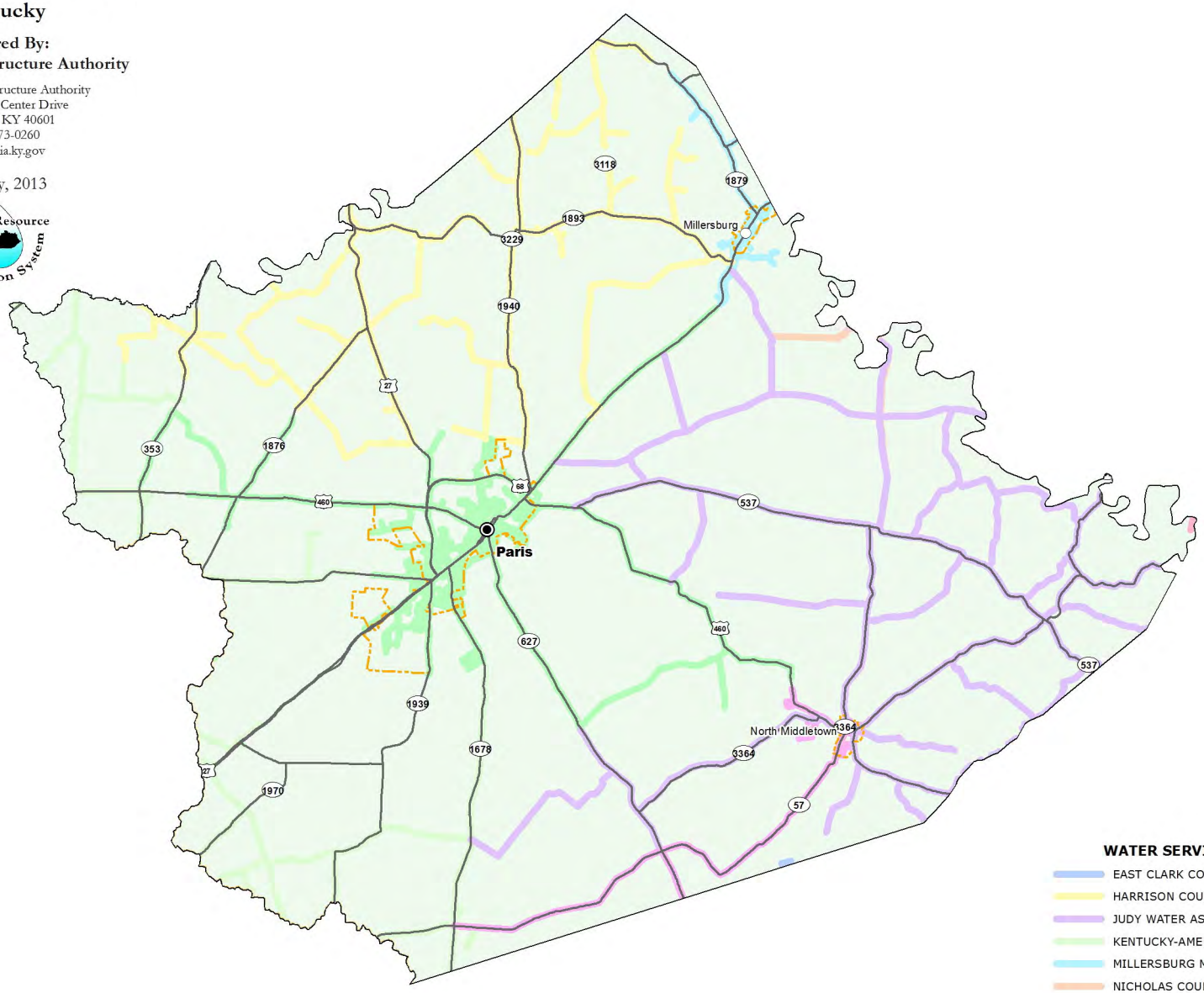
WATER SERVICE AREAS
BOURBON COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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January, 2013

Water Resource Information System



WATER SERVICE BY OWNER

- EAST CLARK COUNTY WATER DISTRICT
- HARRISON COUNTY WATER ASSOCIATION
- JUDY WATER ASSOCIATION
- KENTUCKY-AMERICAN WATER COMPANY
- MILLERSBURG MUNICIPAL WATER WORKS
- NICHOLAS COUNTY WATER DISTRICT
- NORTH MIDDLETOWN WATER DEPARTMENT
- PARIS WATER WORKS
- SHARPSBURG WATER DISTRICT

System Summary for Millersburg Municipal Water Works

PWSID	KY0090287	Treats Water	Yes, 1 plant with total capacity of 0.360 MGD.
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	3	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	$46.60 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	$46.60 per 4,000 gallons.	Total Connections	350
Residential Customers	338	Total Produced (MG)	39.055
Commercial Customers	6	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	23.977
Industrial Customers	-	Total Wholesale Sold (MG)	7.508
Wholesale Customers	2	Estimated Pct. Water Loss	19%
Total Distribution System Line Length = 14.32 miles (Distribution: 14.19 miles, Transmission: 0.13 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Millersburg Municipal Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21017017	Millersburg Water System Upgrades	0-2 Years	Not Funded	$1,400,000	Bourbon		

System Summary for North Middletown Water Department

PWSID	KY0090322	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	2	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	394
Residential Customers	387	Total Produced (MG)	-
Commercial Customers	7	Total Purchased (MG)	61.632
Institutional Customers	-	Total Inside Usage (MG)	0.130
Industrial Customers	-	Total Wholesale Sold (MG)	31.871
Wholesale Customers	1	Estimated Pct. Water Loss	48%

Total Distribution System Line Length = 22.57 miles (Distribution: 22.57 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for North Middletown Water Department

Bourbon County (continued)

System Summary for Paris Water Works

PWSID	KY0090343	Treats Water	Yes, 1 plant with total capacity of 3.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	13	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$12.80 per 4,000 gallons.	Storage Capacity	Yes, 3 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	$17.92 per 4,000 gallons.	Total Connections	4,892
Residential Customers	4,338	Total Produced (MG)	729.983
Commercial Customers	554	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	500.167
Industrial Customers	-	Total Wholesale Sold (MG)	3.680
Wholesale Customers	1	Estimated Pct. Water Loss	31%
Total Distribution System Line Length = 113.00 miles (Distribution: 112.99 miles, Transmission: 0.01 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Paris Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21017021	Paris Water Treatment Plant Improvements	0-2 Years	Not Funded	$1,500,000	Bourbon	4	2
WX21017023	Paris to Kentucky American Water System Connection	0-2 Years	Not Funded	$90,000	Bourbon	26	3
WX21017012	City of Paris Creek Crossing Pipe Replacement Under Houston and Stoner Creeks.	3-5 Years	Not Funded	$294,000	Bourbon	28	7
WX21017014	City of Paris Water Valve Replacement Phase I	3-5 Years	Not Funded	$500,000	Bourbon		
WX21017011	City of Paris Amr System Upgrade (Automatic Meter Read) Project	3-5 Years	Not Funded	$100,000	Bourbon		

Boyle County

- 2010 census population of 28,432 (12,312 households) with 100% serviceable.
- Projected 2020 population of 29,048 (change of 616).
- Boyle County has 422.85 miles of existing water lines.
- 3.00 miles of line extensions proposed in the next 10 years.
- 14.00 miles of line rehabilitation proposed in the next 10 years.
- 4.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $13,567,910.
- There are no projects planned from 6 to 10 years.



Boyle County has a 2010 census population count of 28,432 (12,312 households) with a projected 2020 population count of 29,048 (11,782 households). Public water is currently available to approximately 100 percent of the county's households based on 2010 census counts. Over the next ten years approximately 2,128 instances of improved service through the rehabilitation of 14.00 miles of existing water lines and other appurtenances. 4.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Danville	4	$6,496,410	-	-	3.00	-	-
City of Springfield	1	$250,000	-	-	-	-	-
Lake Village Water Association Inc	1	$1,100,000	-	27	-	1.00	-
Parksville Water District	11	$5,721,500	-	2,101	-	13.00	4.00
Totals:	**17**	**$13,567,910**	**-**	**2,128**	**3.00**	**14.00**	**4.00**

Community Drinking Water Systems in Boyle County

Note: Serviceability counts are for households within Boyle county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0110097	Danville City Water Works	Boyle	22,980	10,170
KY0110345	Parksville Water District	Boyle	3,758	1,612
KY0400151	Garrard County Water Association	Garrard	24	11
KY0690203	Hustonville Water Works	Lincoln	247	101
KY0840587	Lake Village Water Association	Mercer	1,310	356
		Totals:	28,319	12,250

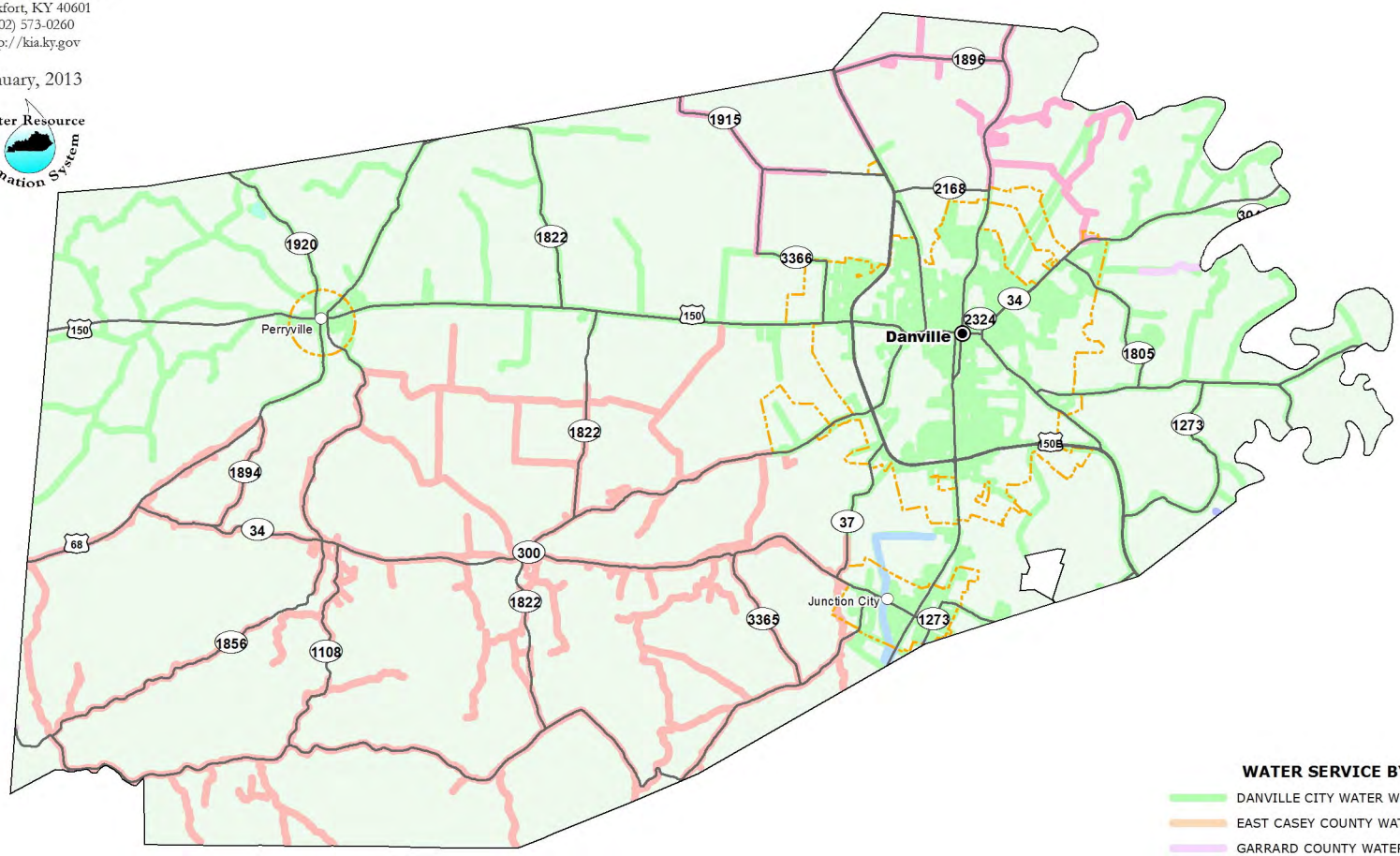
WATER SERVICE AREAS
BOYLE COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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http://kia.ky.gov

January, 2013

Water Resource Information System



System Summary for Danville City Water Works

PWSID	KY0110097	Treats Water	Yes, 1 plant with total capacity of 10.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	13	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 5 purchasers.
Inside Mun. Cost	$12.00 per 4,000 gallons.	Storage Capacity	Yes, 9 tanks with total capacity of 5.000 MG.
Outside Mun. Cost	$23.00 per 4,000 gallons.	Total Connections	10,300
Residential Customers	10,172	Total Produced (MG)	1,974.650
Commercial Customers	933	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	887.274
Industrial Customers	16	Total Wholesale Sold (MG)	383.987
Wholesale Customers	5	Estimated Pct. Water Loss	36%
Total Distribution System Line Length = 278.47 miles (Distribution: 268.45 miles, Transmission: 10.01 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Danville City Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21021026	Danville - Corporate Drive Water Main Extension Project	0-2 Years	Partially Funded	$1,396,410	Boyle	14	4
WX21021010	Perryville Standpipe Replacement	0-2 Years	Not Funded	$1,300,000	Boyle	33	2
WX21021011	East Boyle County Water Tank	3-5 Years	Not Funded	$3,000,000	Boyle		
WX21021012	Danville Automatic Meter Read System Implementation	3-5 Years	Not Funded	$800,000	Boyle		

System Summary for Parksville Water District

PWSID	KY0110345	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	6	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$32.50 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 4 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	1,581
Residential Customers	1,570	Total Produced (MG)	-
Commercial Customers	11	Total Purchased (MG)	14.938
Institutional Customers	-	Total Inside Usage (MG)	80.125
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	-436%

Total Distribution System Line Length = 127.47 miles (Distribution: 127.47 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Parksville Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21021029	PWD Forkland Area Tank Project	0-2 Years	Not Funded	$1,800,000	Boyle		
WX21021030	Parksville Water District - KY 34 Pump Station Replacement Project	0-2 Years	Not Funded	$1,410,000	Boyle		
WX21021023	Parksville Water District New Radio Read Metering System	0-2 Years	Not Funded	$500,000	Boyle		
WX21021025	Parksville Water District Water Line Replacement Phase 3	0-2 Years	Not Funded	$476,000	Boyle		
WX21021018	Parksville WD Waterline Replacement Phase 1	0-2 Years	Not Funded	$440,000	Boyle		
WX21021019	Parksville Water Department Water Line Replacement Phase 4	0-2 Years	Not Funded	$428,000	Boyle		
WX21021022	Parksville Water District New SCADA System	0-2 Years	Not Funded	$298,500	Boyle		
WX21021027	PWD Tennessee Ridge Upgrade	0-2 Years	Not Funded	$130,000	Boyle		
WX21021021	Parksville Water District Water Line Replacement Phase 2	0-2 Years	Not Funded	$127,000	Boyle		
WX21021024	Parksville Water Department Hydraulic Study	0-2 Years	Not Funded	$66,000	Boyle		
WX21021020	Parksville Water District Water Line Replacement KY 37 At KY 243	0-2 Years	Not Funded	$46,000	Boyle		

Clark County

- 2010 census population of 35,613 (15,706 households) with 99% serviceable.
- Projected 2020 population of 37,985 (change of 2,372).
- Clark County has 449.19 miles of existing water lines.
- 6.00 miles of line extensions proposed in the next 10 years.
- 5.00 miles of line rehabilitation proposed in the next 10 years.
- 12.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $42,339,075.
- Estimated funding needs for projects from 6 to 10 years: $5,677,580.



Clark County has a 2010 census population count of 35,613 (15,706 households) with a projected 2020 population count of 37,985 (15,800 households). Public water is currently available to approximately 99 percent of the county's households based on 2010 census counts. Over the next ten years approximately 14 serviceable households will be added through the construction of 6.00 miles of water line extensions and approximately 12,417 instances of improved service through the rehabilitation of 5.00 miles of existing water lines and other appurtenances. 12.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
East Clark County Water District	3	$2,793,360	-	92	-	4.00	-
Winchester Municipal Utilities Commission	6	$45,223,295	14	12,325	6.00	1.00	12.00
Totals:	**9**	**$48,016,655**	**14**	**12,417**	**6.00**	**5.00**	**12.00**

Community Drinking Water Systems in Clark County

Note: Serviceability counts are for households within Clark county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0250981	East Clark County Water District	Clark	6,141	2,658
KY0250473	Winchester Municipal Utilities	Clark	25,165	11,123
KY0340250	Kentucky-American Water Company	Fayette	3,283	1,474
KY0870147	Judy Water Association	Montgomery	449	181
KY0870367	Reid Village Water District	Montgomery	115	45
		Totals:	35,153	15,481

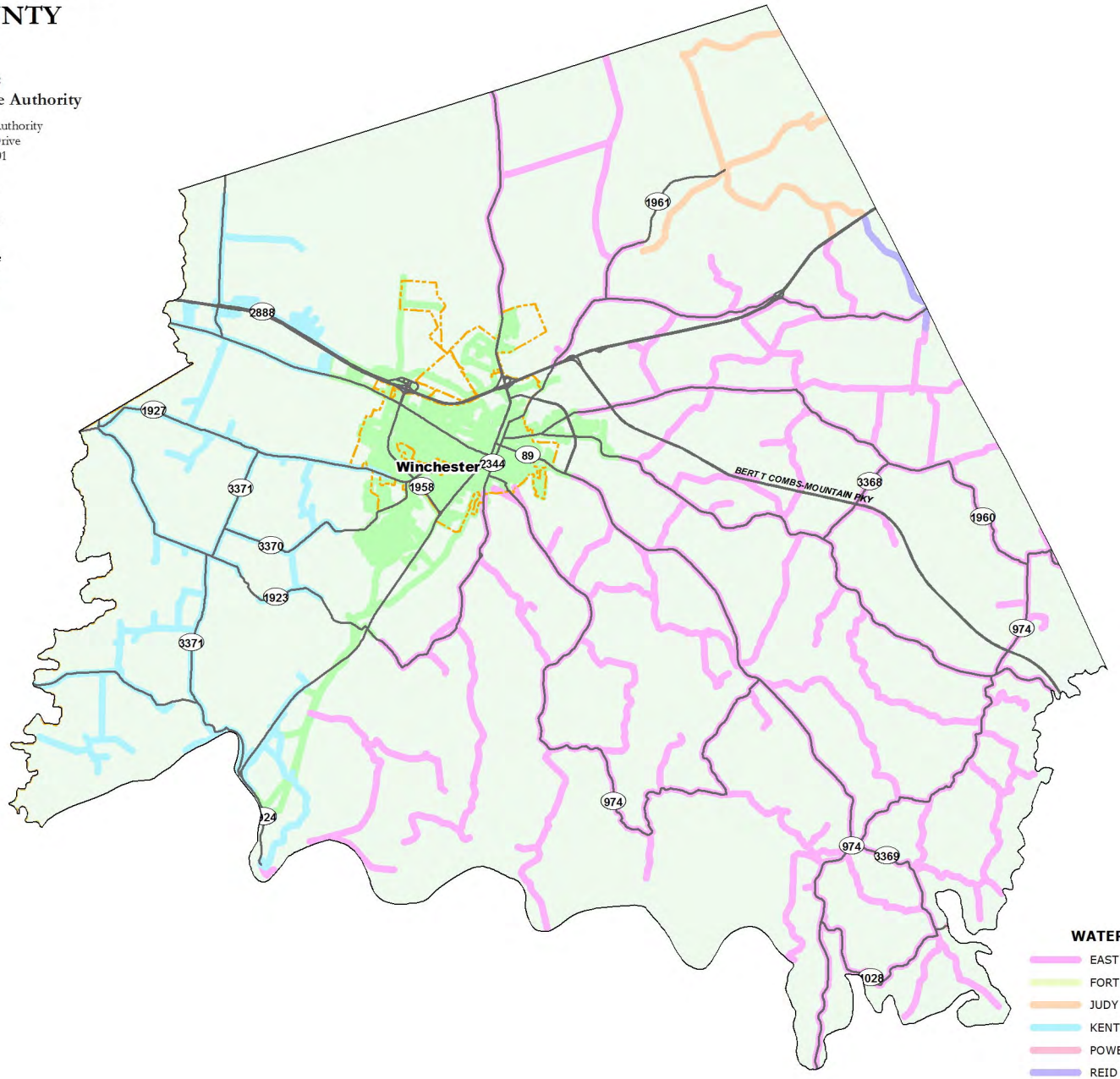
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CLARK COUNTY
Kentucky

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January, 2013

Water Resource Information System



System Summary for East Clark County Water District

PWSID	KY0250981	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	6	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	$47.18 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 4 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	2,400
Residential Customers	2,400	Total Produced (MG)	-
Commercial Customers	19	Total Purchased (MG)	124.276
Institutional Customers	-	Total Inside Usage (MG)	110.533
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	11%

Total Distribution System Line Length = 202.39 miles (Distribution: 202.39 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for East Clark County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21049015	Water Treatment Plant - 9.0 MGD	0-2 Years	Not Funded	$39,000,100	Clark	13	2
WX21049029	KY 15 Tank Ecton Road Pump Station	0-2 Years	Partially Funded	$1,480,300	Clark		
WX21049036	ECCWD - Ecton Road and Little Stoner Road Water Line Upgrade	0-2 Years	Partially Funded	$680,000	Clark		
WX21049019	East Clark County Water District Water Line and Pump Station Project	6-10 Years	Not Funded	$633,060	Clark		

System Summary for Winchester Municipal Utilities

PWSID	KY0250473	Treats Water	Yes, 1 plant with total capacity of 5.320 MGD.
System Type	Community	Surface Source	Yes, 2 sources.
Owner Type	Municipal Utility Board or Commission	Groundwater Source	No
Employees	75	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	$23.52 per 4,000 gallons.	Storage Capacity	Yes, 5 tanks with total capacity of 3.000 MG.
Outside Mun. Cost	$30.29 per 4,000 gallons.	Total Connections	11,765
Residential Customers	10,853	Total Produced (MG)	1,478.250
Commercial Customers	849	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	4.000
Industrial Customers	60	Total Wholesale Sold (MG)	147.203
Wholesale Customers	2	Estimated Pct. Water Loss	90%
Total Distribution System Line Length = 162.30 miles (Distribution: 157.89 miles, Transmission: 4.41 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Winchester Municipal Utilities

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21049015	Water Treatment Plant - 9.0 MGD	0-2 Years	Not Funded	$39,000,100	Clark	13	2
WX21049009	Colby Road/Lexington Road Waterline Connector	6-10 Years	Not Funded	$3,795,000	Clark		
WX21049035	Veterans Highway Water Transmission	6-10 Years	Not Funded	$1,249,520	Clark		
WX21049022	Boone Avenue / Colby Road / McClure Road Water System Improvements	3-5 Years	Not Funded	$550,000	Clark		
WX21049014	Elevated Pressure Zone No. 3	3-5 Years	Not Funded	$422,000	Clark		
WX21049037	Lisletown Road Water Line Extension	0-2 Years	Not Funded	$206,675	Clark		

Estill County

- 2010 census population of 14,672 (6,865 households) with 97% serviceable.
- Projected 2020 population of 14,359 (change of -313).
- Estill County has 334.07 miles of existing water lines.
- There are no line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $4,537,500.
- Estimated funding needs for projects from 6 to 10 years: $680,450.



Estill County has a 2010 census population count of 14,672 (6,865 households) with a projected 2020 population count of 14,359 (6,115 households). Public water is currently available to approximately 97 percent of the county's households based on 2010 census counts. Over the next ten years approximately 2 serviceable households will be added through the construction of 0.00 miles of water line extensions and approximately 1,991 instances of improved service through system wide upgrades.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Irvine	1	$4,537,500	-	1,991	-	-	-
Jackson County Water Association Inc	1	$680,450	2	-	-	-	-
Totals:	**2**	**$5,217,950**	**2**	**1,991**	**-**	**-**	**-**

Community Drinking Water Systems in Estill County

Note: Serviceability counts are for households within Estill county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0330123	Estill County Water District #1	Estill	9,288	4,220
KY0330205	Irvine Municipal Utilities	Estill	4,526	2,225
KY0550209	Jackson County Water Association Inc	Jackson	41	20
KY0990357	Powells Valley Water District	Powell	391	195
		Totals:	14,246	6,660

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January, 2013

Water Resource Information System



WATER SERVICE BY OWNER

- ESTILL COUNTY WATER DISTRICT #1
- IRVINE MUNICIPAL UTILITIES
- JACKSON COUNTY WATER ASSOCIATION INC
- POWELLS VALLEY WATER DISTRICT

System Summary for Estill County Water District #1

PWSID	KY0330123	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	8	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	$32.42 per 4,000 gallons.	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 9 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	3,782
Residential Customers	3,631	Total Produced (MG)	-
Commercial Customers	131	Total Purchased (MG)	261.813
Institutional Customers	-	Total Inside Usage (MG)	187.376
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	1	Estimated Pct. Water Loss	28%

Total Distribution System Line Length = 274.02 miles (Distribution: 274.02 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Estill County Water District #1

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21065005	Irvine Water Treatment Plant Upgrade and Expansion	0-2 Years	Not Funded	$4,537,500	Estill	5	2
WX21137025	Eubank, Ky Water Meter Replacement Program	0-2 Years	Not Funded	$53,500	Lincoln		

System Summary for Irvine Municipal Utilities

PWSID	KY0330205	Treats Water	Yes, 1 plant with total capacity of 2.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Municipal Utility Board or Commission	Groundwater Source	No
Employees	2	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$20.29 per 4,000 gallons.	Storage Capacity	Yes, 4 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$27.73 per 4,000 gallons.	Total Connections	2,150
Residential Customers	1,803	Total Produced (MG)	530.000
Commercial Customers	164	Total Purchased (MG)	-
Institutional Customers	3	Total Inside Usage (MG)	267.184
Industrial Customers	1	Total Wholesale Sold (MG)	261.280
Wholesale Customers	1	Estimated Pct. Water Loss	0%
Total Distribution System Line Length = 49.74 miles (Distribution: 49.69 miles, Transmission: 0.05 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Irvine Municipal Utilities

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21065005	Irvine Water Treatment Plant Upgrade and Expansion	0-2 Years	Not Funded	$4,537,500	Estill	5	2

Fayette County

- 2010 census population of 295,803 (135,160 households) with 93% serviceable.
- Projected 2020 population of 334,733 (change of 38,930).
- Fayette County has 1,215.33 miles of existing water lines.
- There are no line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- There are no projects planned from 0 to 5 years.
- There are no projects planned from 6 to 10 years.



Fayette County has a 2010 census population count of 295,803 (135,160 households) with a projected 2020 population count of 334,733 (141,152 households). Public water is currently available to approximately 93 percent of the county's households based on 2010 census counts. There are no projects proposed for this county over the next 10 years.

Community Drinking Water Systems in Fayette County
Note: Serviceability counts are for households within Fayette county only.

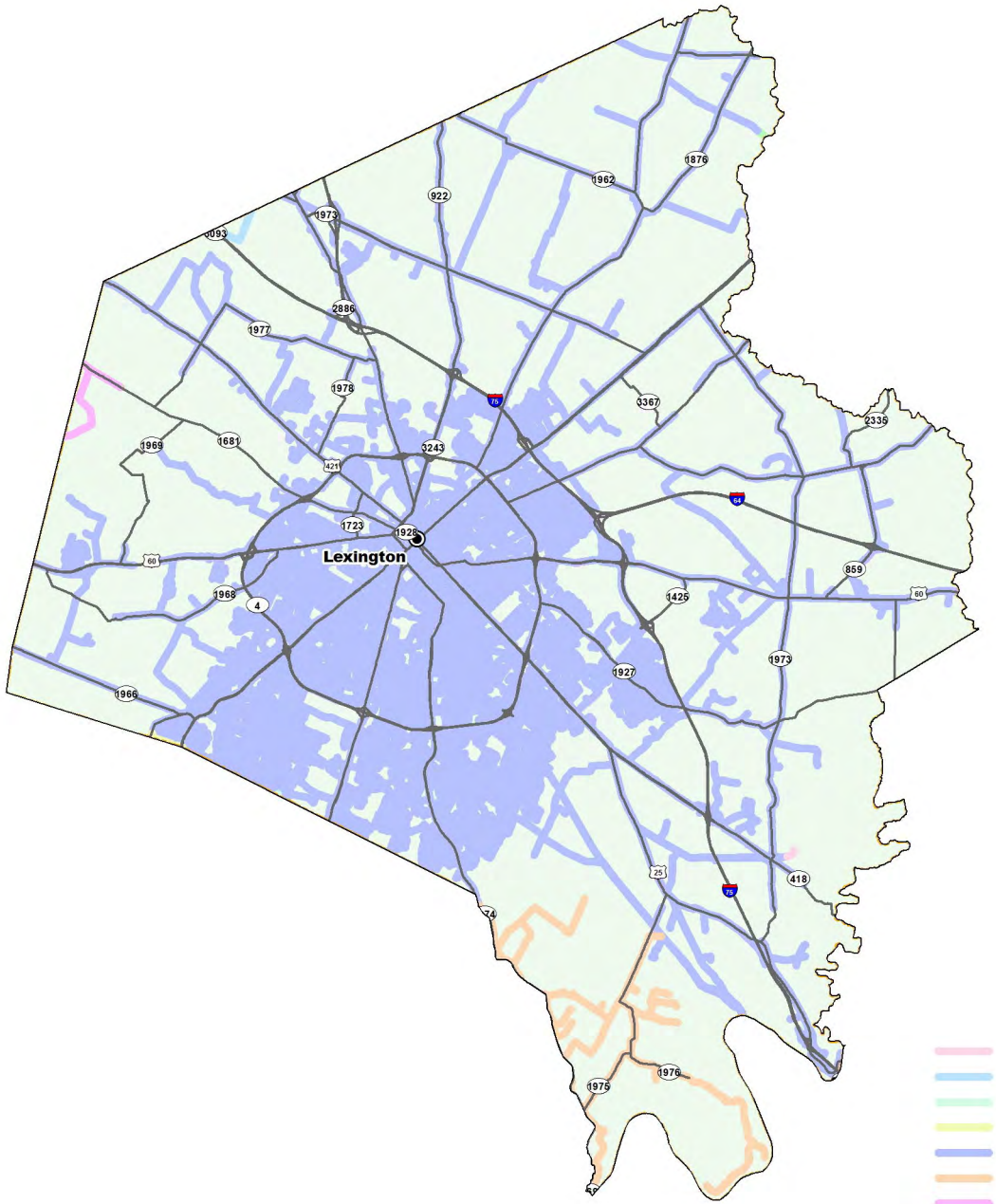
PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0340250	Kentucky-American Water Company	Fayette	271,905	125,606
KY0570214	Jessamine County Water District #1	Jessamine	73	29
KY0570249	Jessamine- South Elkhorn Water District	Jessamine	415	147
KY0570315	Nicholasville Utilities	Jessamine	761	321
KY1200310	Northeast Woodford County Water District	Woodford	70	38
		Totals:	273,224	126,141

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January, 2013



System Summary for Kentucky-American Water Company

PWSID	KY0340250	Treats Water	Yes, 3 plants with total capacity of 90.000 MGD.
System Type	Community	Surface Source	Yes, 4 sources.
Owner Type	Investor-Owned (Private For-Profit)	Groundwater Source	No
Employees	127	Wholesale Purchaser	Yes, from 3 providers.
Non-Municipal Cost	$33.69 per 4,000 gallons.	Wholesale Provider	Yes, to 9 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 25 tanks with total capacity of 17.000 MG.
Outside Mun. Cost	-	Total Connections	121,259
Residential Customers	96,579	Total Produced (MG)	13,588.950
Commercial Customers	8,231	Total Purchased (MG)	23.050
Institutional Customers	-	Total Inside Usage (MG)	10,529.101
Industrial Customers	18	Total Wholesale Sold (MG)	441.278
Wholesale Customers	9	Estimated Pct. Water Loss	19%
Total Distribution System Line Length = 1,795.34 miles (Distribution: 1,748.63 miles, Transmission: 46.71 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Kentucky-American Water Company

Franklin County

- 2010 census population of 49,285 (23,164 households) with 99% serviceable.
- Projected 2020 population of 50,777 (change of 1,492).
- Franklin County has 566.44 miles of existing water lines.
- 1.00 miles of line extensions proposed in the next 10 years.
- 4.00 miles of line rehabilitation proposed in the next 10 years.
- 7.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $39,885,000.
- There are no projects planned from 6 to 10 years.



Franklin County has a 2010 census population count of 49,285 (23,164 households) with a projected 2020 population count of 50,777 (21,761 households). Public water is currently available to approximately 99 percent of the county's households based on 2010 census counts. Over the next ten years approximately 7 serviceable households will be added through the construction of 1.00 miles of water line extensions and approximately 11,522 instances of improved service through the rehabilitation of 4.00 miles of existing water lines and other appurtenances. 7.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Farmdale Water District	2	$1,408,000	-	2,605	-	3.00	-
Frankfort Electric & Water Plant Board	2	$8,127,000	-	8,900	-	-	1.00
Shelby County Fiscal Court	1	$30,200,000	-	-	-	-	6.00
US 60 Water District	2	$150,000	7	17	1.00	1.00	-
Totals:	**7**	**$39,885,000**	**7**	**11,522**	**1.00**	**4.00**	**7.00**

Community Drinking Water Systems in Franklin County

Note: Serviceability counts are for households within Franklin county only.

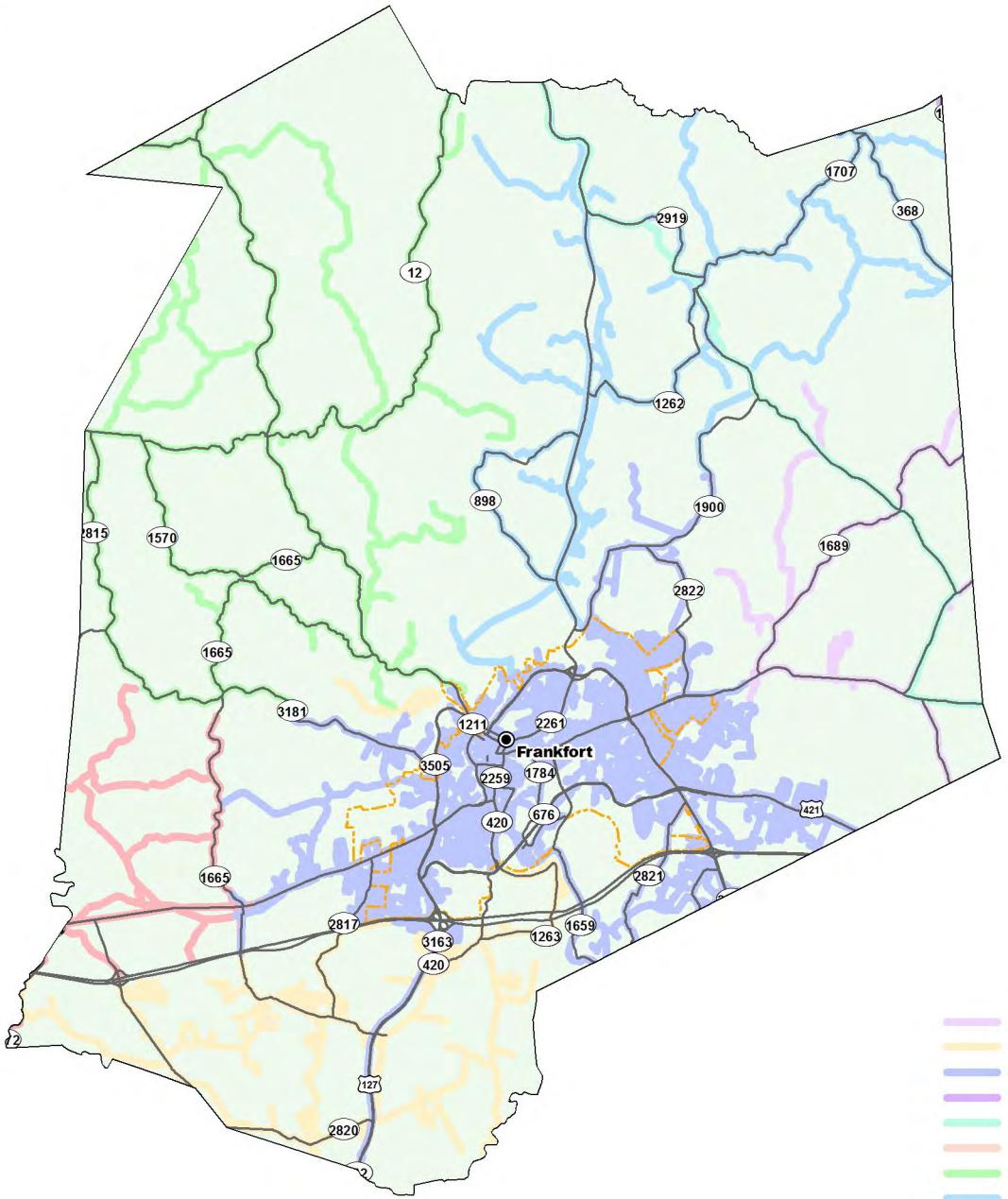
PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0370137	Elkhorn Water District	Franklin	1,469	623
KY0370128	Farmdale Water District	Franklin	6,077	2,391
KY0370143	Frankfort Plant Board	Franklin	35,254	17,367
KY0370346	Peaks Mill Water District	Franklin	2,744	1,181
KY1060324	North Shelby Water Company	Shelby	2,282	1,015
KY1060436	US 60 Water District	Shelby	963	416
		Totals:	48,789	22,993

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System Summary for Elkhorn Water District

PWSID	KY0370137	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	2	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$25.54 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	590
Residential Customers	582	Total Produced (MG)	-
Commercial Customers	8	Total Purchased (MG)	60.780
Institutional Customers	-	Total Inside Usage (MG)	62.785
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	-3%
Total Distribution System Line Length = 27.38 miles (Distribution: 27.38 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Elkhorn Water District

System Summary for Farmdale Water District

PWSID	KY0370128	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	5	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$20.72 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	2,650
Residential Customers	2,535	Total Produced (MG)	-
Commercial Customers	115	Total Purchased (MG)	203.466
Institutional Customers	-	Total Inside Usage (MG)	161.588
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	21%
Total Distribution System Line Length = 72.08 miles (Distribution: 72.08 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Farmdale Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21073020	Green Wilson Road Water Line Upgrade	0-2 Years	Not Funded	$740,000	Franklin		
WX21073017	Farmdale Water District Water Line Upgrade	3-5 Years	Not Funded	$668,000	Franklin		

System Summary for Frankfort Plant Board

PWSID	KY0370143	Treats Water	Yes, 1 plant with total capacity of 18.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Municipal Utility Board or Commission	Groundwater Source	No
Employees	236	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 8 purchasers.
Inside Mun. Cost	$25.00 per 4,000 gallons.	Storage Capacity	Yes, 6 tanks with total capacity of 16.000 MG.
Outside Mun. Cost	$31.96 per 4,000 gallons.	Total Connections	16,619
Residential Customers	13,518	Total Produced (MG)	3,982.600
Commercial Customers	2,073	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	2,258.100
Industrial Customers	-	Total Wholesale Sold (MG)	969.930
Wholesale Customers	8	Estimated Pct. Water Loss	19%

Total Distribution System Line Length = 336.81 miles (Distribution: 336.81 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Frankfort Plant Board

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21073012	Frankfort Plant Board Reservoir Improvement Project	3-5 Years	Not Funded	$6,427,000	Franklin	21	6
WX21239023	Woodford County Germany, Shore Acres, Foraker, Watts Ferry & Hippe Agee Project	3-5 Years	Not Funded	$1,254,000	Woodford	24	1
WX21211081	I-64 Transmission Pipeline - Phase IV	0-2 Years	Not Funded	$30,200,000	Shelby		
WX21073019	HWY 1685 Water Line Inter-Connectivity Project	0-2 Years	Not Funded	$1,700,000	Franklin		
WX21239018	Frankfort Plant Board Buck Run Road Water Line Extension	0-2 Years	Not Funded	$106,000	Woodford		

System Summary for Imperial Mobile Home Park Water System

PWSID	KY0370607	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	-	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$30.83 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	No
Outside Mun. Cost	-	Total Connections	
Residential Customers	551	Total Produced (MG)	-
Commercial Customers	-	Total Purchased (MG)	5.220
Institutional Customers	-	Total Inside Usage (MG)	24.133
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	-362%
Total Distribution System Line Length = 0.00 miles (Distribution: 0.00 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Imperial Mobile Home Park Water System

System Summary for Peaks Mill Water District

PWSID	KY0370346	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	2	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$43.78 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	1,170
Residential Customers	1,163	Total Produced (MG)	-
Commercial Customers	7	Total Purchased (MG)	80.723
Institutional Customers	-	Total Inside Usage (MG)	62.367
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	23%
Total Distribution System Line Length = 83.16 miles (Distribution: 83.16 miles, Transmission: 0.00 miles).			

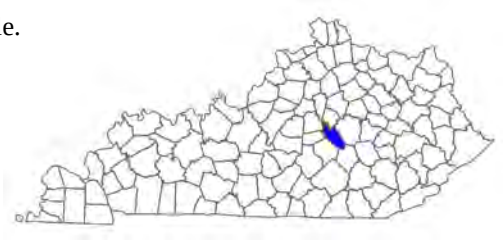
MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Peaks Mill Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21187001	Owen County Extension	0-2 Years	Not Funded	$1,688,710	Owen		

Garrard County

- 2010 census population of 16,912 (7,463 households) with 99% serviceable.
- Projected 2020 population of 19,122 (change of 2,210).
- Garrard County has 426.75 miles of existing water lines.
- 4.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $829,645.
- There are no projects planned from 6 to 10 years.



Garrard County has a 2010 census population count of 16,912 (7,463 households) with a projected 2020 population count of 19,122 (7,917 households). Public water is currently available to approximately 99 percent of the county's households based on 2010 census counts. Over the next ten years approximately 33 serviceable households will be added through the construction of 4.00 miles of water line extensions and approximately 3,360 instances of improved service through system wide upgrades.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Crab Orchard	1	$174,000	6	-	1.00	-	-
City of Lancaster	2	$345,760	-	3,360	1.00	-	-
Garrard County Water Association Inc	2	$309,885	27	-	2.00	-	-
Totals:	**5**	**$829,645**	**33**	**3,360**	**4.00**	**-**	**-**

Community Drinking Water Systems in Garrard County

Note: Serviceability counts are for households within Garrard county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0400151	Garrard County Water Association	Garrard	12,429	5,395
KY0400233	Lancaster Water Works	Garrard	3,935	1,839
KY0690089	Crab Orchard Water Works	Lincoln	147	59
KY0760672	Kirksville Water Association	Madison	26	12
KY0760407	Southern Madison Water District	Madison	41	17
KY1020891	Western Rockcastle Water Association	Rockcastle	80	37
		Totals:	16,658	7,359

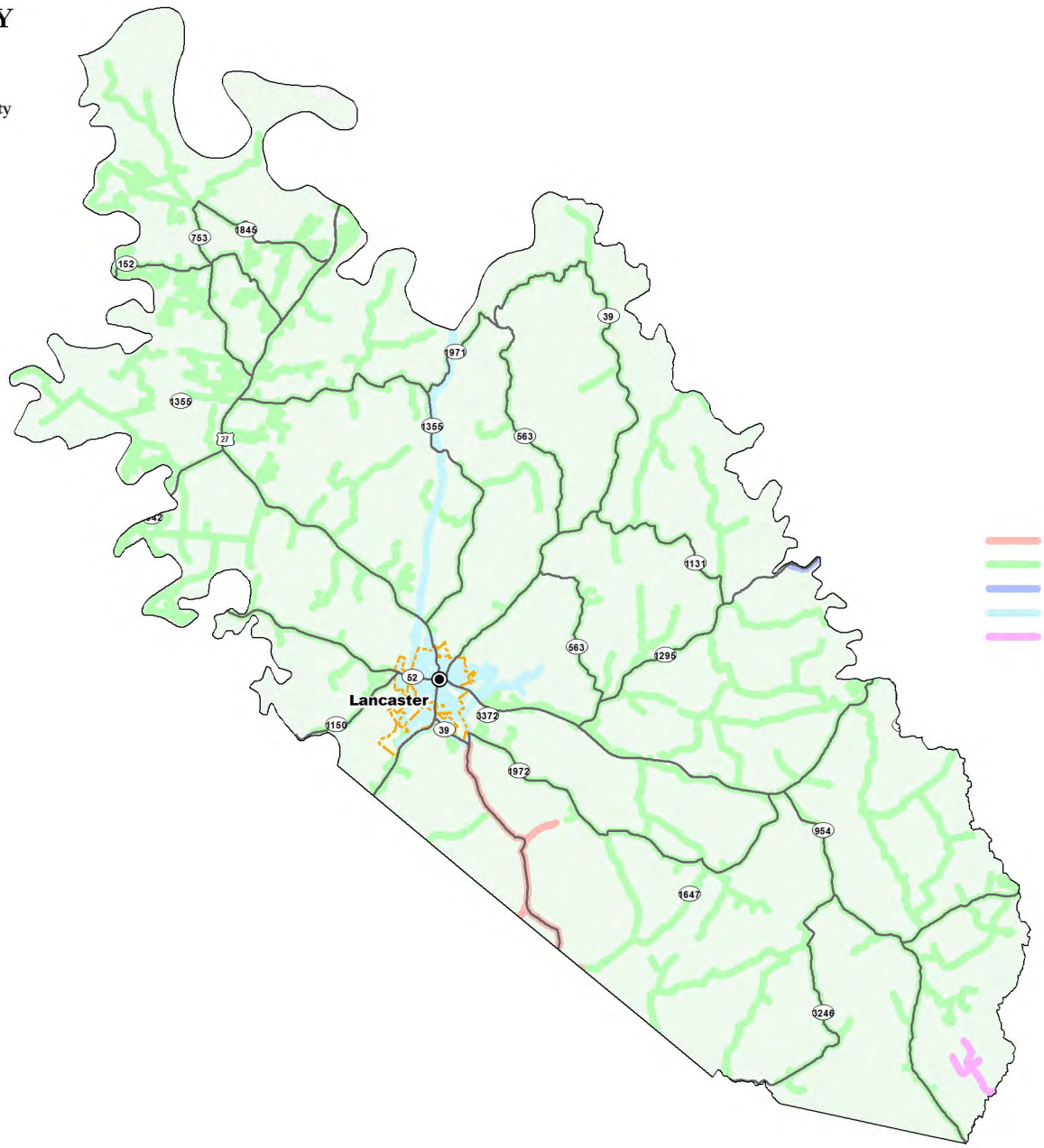
WATER SERVICE AREAS
GARRARD COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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January, 2013

Water Resource Information System



System Summary for Garrard County Water Association

PWSID	KY0400151	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water Association	Groundwater Source	No
Employees	8	Wholesale Purchaser	Yes, from 3 providers.
Non-Municipal Cost	$24.95 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 9 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	5,478
Residential Customers	5,385	Total Produced (MG)	-
Commercial Customers	91	Total Purchased (MG)	347.603
Institutional Customers	-	Total Inside Usage (MG)	286.889
Industrial Customers	2	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	17%
Total Distribution System Line Length = 383.64 miles (Distribution: 380.44 miles, Transmission: 3.20 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Garrard County Water Association

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21079020	Garrard County Water Association Extension 13	0-2 Years	Not Funded	$139,185	Garrard	9	1
WX21151053	Raw Water and High Service Pumping and Controls Modification	0-2 Years	Partially Funded	$680,000	Madison	11	4
WX21079021	Garrard Water Association Extension 14	0-2 Years	Not Funded	$170,700	Garrard		

System Summary for Lancaster Water Works

PWSID	KY0400233	Treats Water	Yes, 1 plant with total capacity of 2.100 MGD.
System Type	Community	Surface Source	Yes, 2 sources.
Owner Type	Incorporated City	Groundwater Source	No
Employees	7	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	$44.12 per 4,000 gallons.	Storage Capacity	Yes, 2 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	$66.18 per 4,000 gallons.	Total Connections	1,700
Residential Customers	1,539	Total Produced (MG)	472.869
Commercial Customers	176	Total Purchased (MG)	-
Institutional Customers	1	Total Inside Usage (MG)	189.200
Industrial Customers	-	Total Wholesale Sold (MG)	271.000
Wholesale Customers	2	Estimated Pct. Water Loss	3%
Total Distribution System Line Length = 54.24 miles (Distribution: 35.92 miles, Transmission: 18.32 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Lancaster Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21079022	Lancaster Water Line Extension to Industrial Park	0-2 Years	Not Funded	$192,760	Garrard		
WX21079016	Lancaster Utility Security Improvements Part A	0-2 Years	Not Funded	$153,000	Garrard		

Harrison County

- 2010 census population of 18,846 (8,208 households) with 99% serviceable.
- Projected 2020 population of 19,640 (change of 794).
- Harrison County has 487.65 miles of existing water lines.
- 4.00 miles of line extensions proposed in the next 10 years.
- 5.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $7,219,887.
- There are no projects planned from 6 to 10 years.



Harrison County has a 2010 census population count of 18,846 (8,208 households) with a projected 2020 population count of 19,640 (8,006 households). Public water is currently available to approximately 99 percent of the county's households based on 2010 census counts. Over the next ten years approximately 2 serviceable households will be added through the construction of 4.00 miles of water line extensions and approximately 10,201 instances of improved service through the rehabilitation of 5.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Cynthiana	4	$6,594,387	2	9,001	4.00	5.00	-
Harrison County Water Association Inc	1	$625,500	-	1,200	-	-	-
Totals:	**5**	**$7,219,887**	**2**	**10,201**	**4.00**	**5.00**	**-**

Community Drinking Water Systems in Harrison County

Note: Serviceability counts are for households within Harrison county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0490096	Cynthiana Municipal Water Works	Harrison	6,634	3,073
KY0490179	Harrison County Water Association	Harrison	11,729	4,905
KY0340250	Kentucky-American Water Company	Fayette	175	75
KY0410662	Corinth Water District	Grant	111	63
KY0810046	Buffalo Trail Water Association	Mason	55	28
		Totals:	18,704	8,144

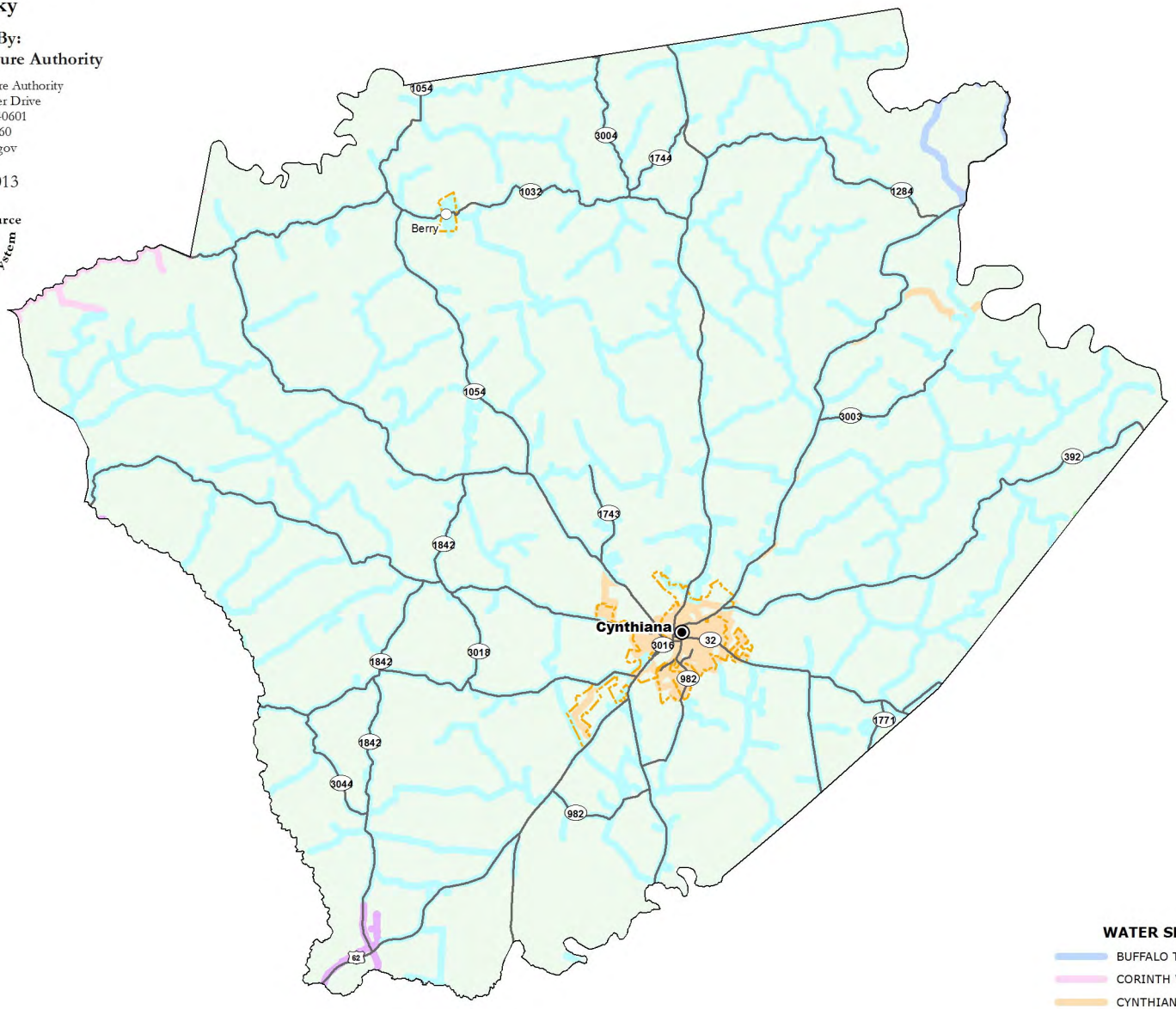
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Water Resource Information System



WATER SERVICE BY OWNER

- BUFFALO TRAIL WATER ASSOCIATION
- CORINTH WATER DISTRICT
- CYNTHIANA MUNICIPAL WATER WORKS
- HARRISON COUNTY WATER ASSOCIATION
- KENTUCKY-AMERICAN WATER COMPANY
- NICHOLAS COUNTY WATER DISTRICT

System Summary for Cynthiana Municipal Water Works

PWSID	KY0490096	Treats Water	Yes, 1 plant with total capacity of 6.000 MGD.
System Type	Community	Surface Source	Yes, 2 sources.
Owner Type	Incorporated City	Groundwater Source	No
Employees	7	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$16.05 per 4,000 gallons.	Storage Capacity	Yes, 3 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	$22.47 per 4,000 gallons.	Total Connections	2,612
Residential Customers	2,249	Total Produced (MG)	731.000
Commercial Customers	217	Total Purchased (MG)	-
Institutional Customers	28	Total Inside Usage (MG)	166.761
Industrial Customers	9	Total Wholesale Sold (MG)	341.884
Wholesale Customers	1	Estimated Pct. Water Loss	30%
Total Distribution System Line Length = 64.30 miles (Distribution: 48.42 miles, Transmission: 15.88 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Cynthiana Municipal Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21097025	City of Cynthiana West By-Pass Water Main Extension Project	0-2 Years	Not Funded	$581,774	Harrison	20	6
WX21097027	City of Cynthiana - 2014 Water Treatment Plant Improvements	0-2 Years	Not Funded	$3,958,613	Harrison		
WX21097019	West End Water System Improvements	0-2 Years	Not Funded	$1,157,000	Harrison		
WX21097021	North West Water System Improvements	0-2 Years	Not Funded	$897,000	Harrison		

System Summary for Harrison County Water Association

PWSID	KY0490179	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water Association	Groundwater Source	No
Employees	9	Wholesale Purchaser	Yes, from 5 providers.
Non-Municipal Cost	$28.21 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 10 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	5,630
Residential Customers	5,591	Total Produced (MG)	-
Commercial Customers	129	Total Purchased (MG)	413.939
Institutional Customers	-	Total Inside Usage (MG)	372.000
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	10%
Total Distribution System Line Length = 501.31 miles (Distribution: 501.31 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Harrison County Water Association

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21097024	Harrison County Water Association Kelat Tank Replacement	0-2 Years	Not Funded	$625,500	Harrison	10	4
WX21097027	City of Cynthiana - 2014 Water Treatment Plant Improvements	0-2 Years	Not Funded	$3,958,613	Harrison		

Jessamine County

- 2010 census population of 48,586 (19,331 households) with 100% serviceable.
- Projected 2020 population of 58,928 (change of 10,342).
- Jessamine County has 533.82 miles of existing water lines.
- 10.00 miles of line extensions proposed in the next 10 years.
- 10.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $16,447,018.
- There are no projects planned from 6 to 10 years.



Jessamine County has a 2010 census population count of 48,586 (19,331 households) with a projected 2020 population count of 58,928 (22,184 households). Public water is currently available to approximately 100 percent of the county's households based on 2010 census counts. Over the next ten years approximately 21 serviceable households will be added through the construction of 10.00 miles of water line extensions and approximately 3,507 instances of improved service through the rehabilitation of 10.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Lancaster	1	$153,000	-	-	-	-	-
City of Nicholasville	2	$4,817,018	-	-	2.00	-	-
City of Wilmore	1	$370,000	-	-	-	-	-
Jessamine County Fiscal Court	1	$997,000	19	469	3.00	1.00	-
Jessamine County Water District #1	9	$7,985,000	2	638	5.00	9.00	-
Jessamine-South Elkhorn Water District	2	$2,125,000	-	2,400	-	-	-
Totals:	**16**	**$16,447,018**	**21**	**3,507**	**10.00**	**10.00**	**-**

Community Drinking Water Systems in Jessamine County

Note: Serviceability counts are for households within Jessamine county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0570214	Jessamine County Water District #1	Jessamine	3,955	1,601
KY0570249	Jessamine- South Elkhorn Water District	Jessamine	7,229	2,812
KY0570315	Nicholasville Utilities	Jessamine	30,703	12,584
KY0570010	Wilmore Water Works	Jessamine	6,403	2,211
KY0340250	Kentucky-American Water Company	Fayette	183	78
		Totals:	48,473	19,286

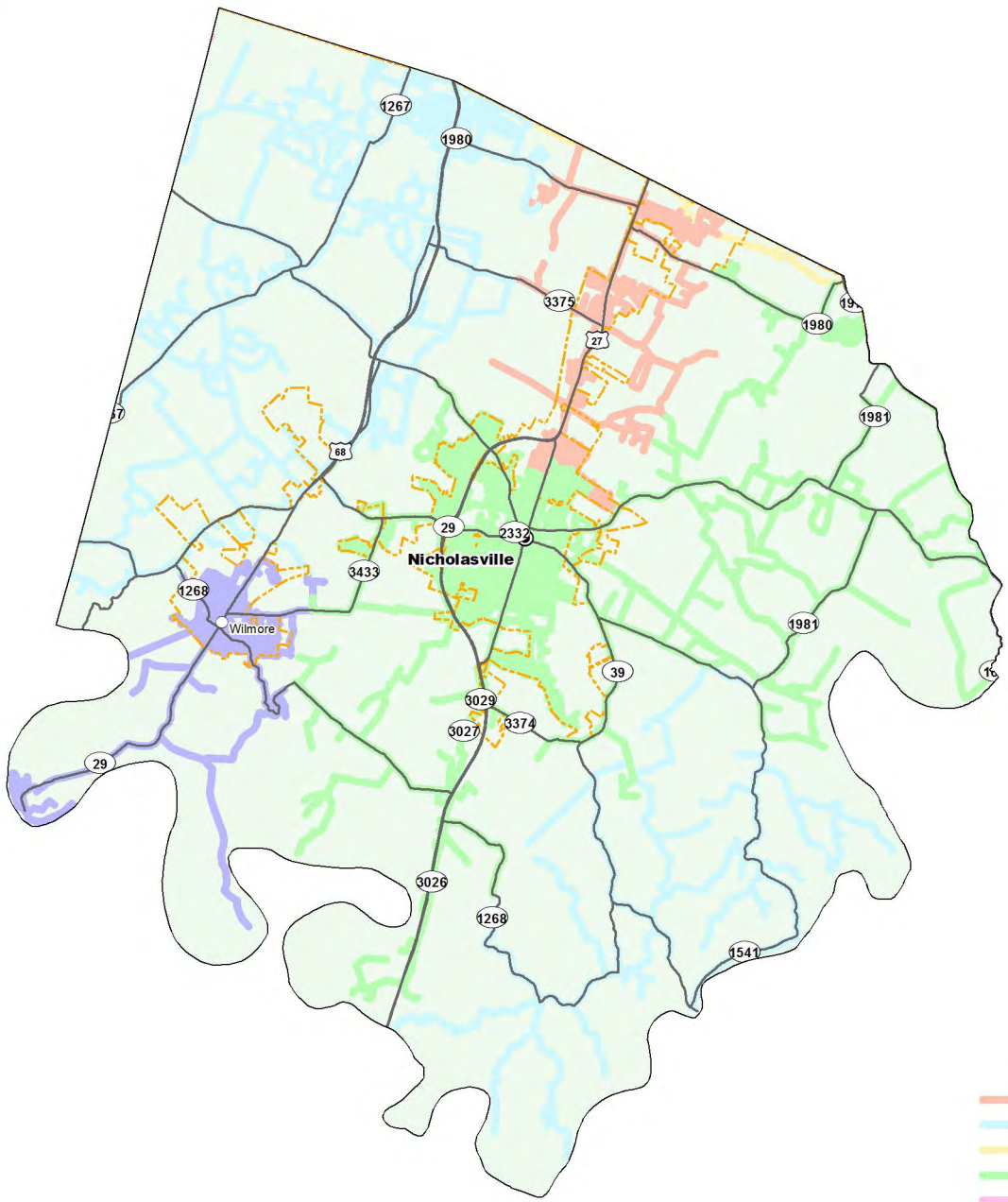
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JESSAMINE COUNTY
Kentucky

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January, 2013

Water Resource Information System



System Summary for Jessamine County Water District #1

PWSID	KY0570214	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	2	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$27.28 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 2 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	2,312
Residential Customers	1,738	Total Produced (MG)	-
Commercial Customers	574	Total Purchased (MG)	203.352
Institutional Customers	-	Total Inside Usage (MG)	16.570
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	92%

Total Distribution System Line Length = 50.62 miles (Distribution: 50.62 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Jessamine County Water District #1

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21113021	Jessamine Co. WD #1 - Ashgrove Pike Water System Improvements	0-2 Years	Not Funded	$625,000	Jessamine	27	2
WX21113012	Jessamine County Water District #1 - New Water Tank Project	0-2 Years	Partially Funded	$3,035,000	Jessamine		
WX21113010	Jessamine County Water District #1 - Water System Improvements	0-2 Years	Partially Funded	$1,350,000	Jessamine		
WX21113034	Jessamine County Water District #1 - Carolyn Lane Water Line Upgrade	0-2 Years	Not Funded	$660,000	Jessamine		
WX21113023	Jessamine County Water District #1 - Baker Lane/Catnip Hill/Windom Lane Loop	0-2 Years	Not Funded	$615,000	Jessamine		
WX21113032	Jessamine County Water District #1 Windom Lane Water Line Upgrade	0-2 Years	Not Funded	$575,000	Jessamine		
WX21113033	Jessamine County Water District #1 Sussex Estates Water Line Upgrade	0-2 Years	Not Funded	$475,000	Jessamine		
WX21113035	Jessamine County Water District #1 - Vincewood Water Line Upgrade	0-2 Years	Not Funded	$415,000	Jessamine		
WX21113022	Jessamine County Water District No. 1-SCADA System	0-2 Years	Not Funded	$235,000	Jessamine		

System Summary for Jessamine- South Elkhorn Water District

PWSID	KY0570249	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	4	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	$42.50 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 4 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	2,731
Residential Customers	2,619	Total Produced (MG)	-
Commercial Customers	66	Total Purchased (MG)	293.571
Institutional Customers	-	Total Inside Usage (MG)	229.922
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	22%

Total Distribution System Line Length = 181.10 miles (Distribution: 181.10 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Jessamine- South Elkhorn Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21113041	Nicholasville – Jessamine South Elkhorn Water District Interconn	0-2 Years	Partially Funded	$663,000	Jessamine	2	3
WX21113016	Catnip Hill Pike 750,000 Gallon Elevated Storage Tank	0-2 Years	Partially Funded	$2,000,000	Jessamine	3	1
WX21113031	Jessamine County - Wide Unserved Areas	0-2 Years	Not Funded	$997,000	Jessamine		
WX21113036	Water Asset Management and Cost of Services Survey Jessamine South Elkhorn	3-5 Years	Not Funded	$125,000	Jessamine		

System Summary for Nicholasville Utilities

PWSID	KY0570315	Treats Water	Yes, 1 plant with total capacity of 9.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	68	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	$20.77 per 4,000 gallons.	Storage Capacity	Yes, 3 tanks with total capacity of 3.000 MG.
Outside Mun. Cost	$30.79 per 4,000 gallons.	Total Connections	16,015
Residential Customers	12,545	Total Produced (MG)	1,319.110
Commercial Customers	851	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	941.638
Industrial Customers	25	Total Wholesale Sold (MG)	229.979
Wholesale Customers	2	Estimated Pct. Water Loss	11%
Total Distribution System Line Length = 281.68 miles (Distribution: 276.79 miles, Transmission: 4.90 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Nicholasville Utilities

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21113041	Nicholasville – Jessamine South Elkhorn Water District Interconn	0-2 Years	Partially Funded	$663,000	Jessamine	2	3
WX21113028	Nicholasville 20" Backbone Water Main Extension	0-2 Years	Not Funded	$4,154,018	Jessamine		
WX21113010	Jessamine County Water District #1 - Water System Improvements	0-2 Years	Partially Funded	$1,350,000	Jessamine		

System Summary for Wilmore Water Works

PWSID	KY0570010	Treats Water	Yes, 1 plant with total capacity of 2.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	9	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$21.97 per 4,000 gallons.	Storage Capacity	Yes, 2 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	$36.70 per 4,000 gallons.	Total Connections	1,965
Residential Customers	1,892	Total Produced (MG)	188.700
Commercial Customers	73	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	112.070
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	41%

Total Distribution System Line Length = 47.01 miles (Distribution: 45.77 miles, Transmission: 1.25 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Wilmore Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21113037	Wilmore Elevated Storage Tank Rehabilitation	0-2 Years	Not Funded	$370,000	Jessamine	35	4
WX21113031	Jessamine County - Wide Unserved Areas	0-2 Years	Not Funded	$997,000	Jessamine		

Lincoln County

- 2010 census population of 24,742 (10,819 households) with 98% serviceable.
- Projected 2020 population of 26,170 (change of 1,428).
- Lincoln County has 575.76 miles of existing water lines.
- 19.00 miles of line extensions proposed in the next 10 years.
- 1.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $3,471,231.
- Estimated funding needs for projects from 6 to 10 years: $4,000,000.



Lincoln County has a 2010 census population count of 24,742 (10,819 households) with a projected 2020 population count of 26,170 (10,762 households). Public water is currently available to approximately 98 percent of the county's households based on 2010 census counts. Over the next ten years approximately 44 serviceable households will be added through the construction of 19.00 miles of water line extensions and approximately 1,104 instances of improved service through the rehabilitation of 1.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Crab Orchard	2	$615,500	-	18	2.00	-	-
City of Eubank	3	$712,500	-	1,015	-	-	-
City of Stanford	1	$1,060,000	-	54	1.00	1.00	-
Lincoln County Fiscal Court	6	$470,000	39	-	11.00	-	-
McKinney Water District	1	$20,055	-	-	-	-	-
Stanford Water Commission	2	$4,066,000	-	17	-	-	-
Western Rockcastle Water Association Inc	1	$527,176	5	-	5.00	-	-
Totals:	**16**	**$7,471,231**	**44**	**1,104**	**19.00**	**1.00**	**-**

Community Drinking Water Systems in Lincoln County

Note: Serviceability counts are for households within Lincoln county only.

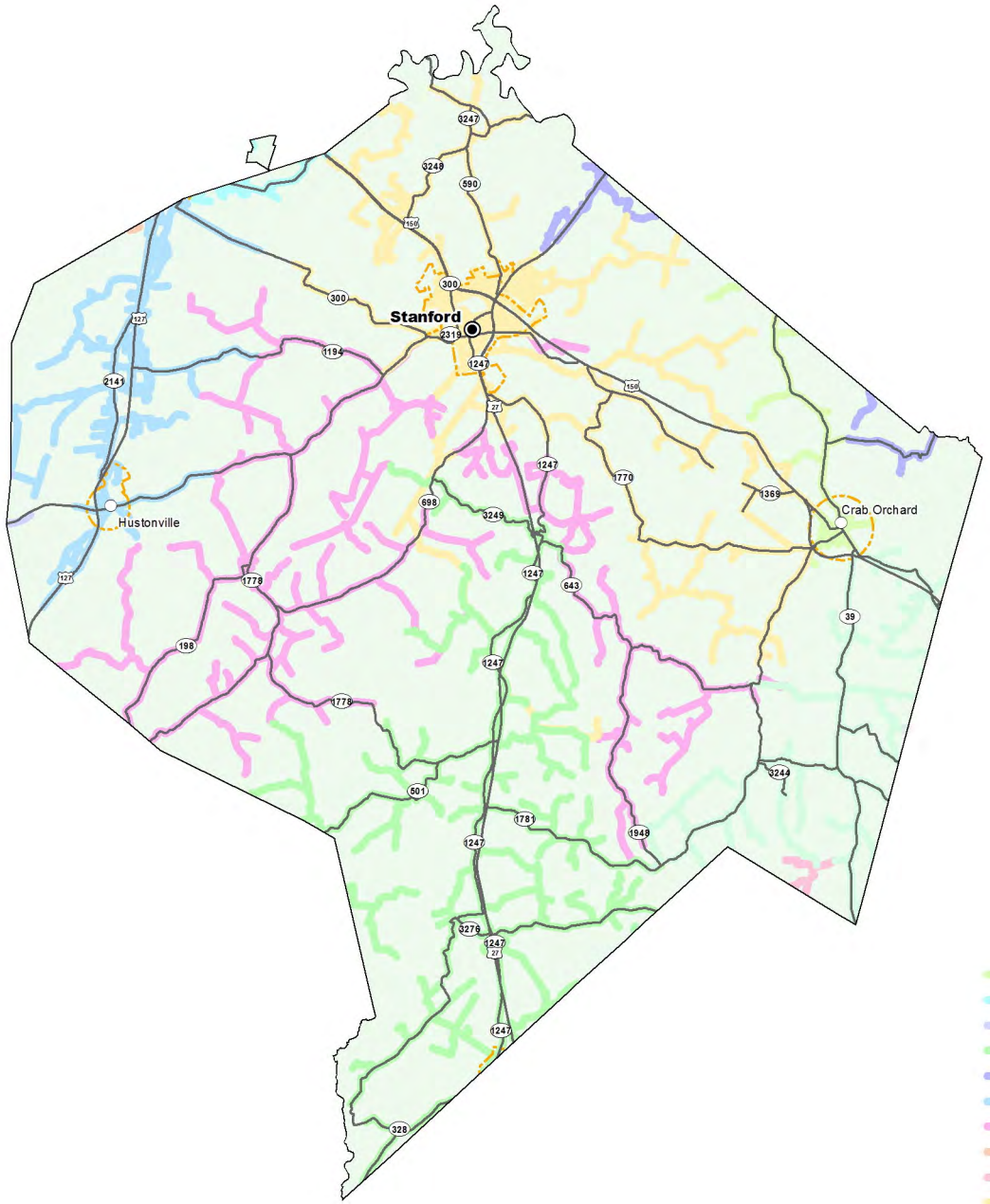
PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0690089	Crab Orchard Water Works	Lincoln	1,068	516
KY0690203	Hustonville Water Works	Lincoln	4,076	1,792
KY0690278	McKinney Water District	Lincoln	4,233	1,823
KY0690417	Stanford Water Commission	Lincoln	7,859	3,356
KY0110097	Danville City Water Works	Boyle	419	192
KY0110345	Parksville Water District	Boyle	94	43
KY0400151	Garrard County Water Association	Garrard	448	178
KY1000124	Eubank Water System	Pulaski	4,377	1,949
KY1000311	Southeastern Water Association	Pulaski	31	22
KY1020891	Western Rockcastle Water Association	Rockcastle	1,545	690
		Totals:	24,150	10,561

WATER SERVICE AREAS
LINCOLN COUNTY
Kentucky

Prepared By:
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System Summary for Crab Orchard Water Works

PWSID	KY0690089	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	3	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$29.61 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	$35.65 per 4,000 gallons.	Total Connections	560
Residential Customers	531	Total Produced (MG)	-
Commercial Customers	29	Total Purchased (MG)	30.000
Institutional Customers	-	Total Inside Usage (MG)	29.629
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	1%
Total Distribution System Line Length = 25.86 miles (Distribution: 22.46 miles, Transmission: 3.40 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Crab Orchard Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21137049	City of Crab Orchard - Deepwell Woods Road Water Line	3-5 Years	Not Funded	$300,500	Lincoln	19	3
WX21137045	City of Crab Orchard - Radio Read Conversion Project	0-2 Years	Not Funded	$315,000	Lincoln		
WX21137048	City of Crab Orchard - J & V Lane New Water Line	3-5 Years	Not Funded	$174,000	Lincoln		

System Summary for Hustonville Water Works

PWSID	KY0690203	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	3	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$20.83 per 4,000 gallons.	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$26.04 per 4,000 gallons.	Total Connections	1,875
Residential Customers	1,895	Total Produced (MG)	-
Commercial Customers	15	Total Purchased (MG)	120.000
Institutional Customers	-	Total Inside Usage (MG)	83.501
Industrial Customers	1	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	30%
Total Distribution System Line Length = 73.57 miles (Distribution: 73.57 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Hustonville Water Works

System Summary for McKinney Water District

PWSID	KY0690278	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	4	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	$33.36 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	2,196
Residential Customers	1,849	Total Produced (MG)	-
Commercial Customers	19	Total Purchased (MG)	109.048
Institutional Customers	-	Total Inside Usage (MG)	101.540
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	7%
Total Distribution System Line Length = 129.48 miles (Distribution: 127.37 miles, Transmission: 2.10 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for McKinney Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21137036	Hicks Road Water Line Extension - Lincoln	0-2 Years	Not Funded	$50,000	Lincoln		
WX21137003	McKinney Water District/Boneyville Road Interconn	0-2 Years	Partially Funded	$20,055	Lincoln		

System Summary for Stanford Water Commission

PWSID	KY0690417	Treats Water	Yes, 1 plant with total capacity of 2.000 MGD.
System Type	Community	Surface Source	Yes, 2 sources.
Owner Type	Municipal Utility Board or Commission	Groundwater Source	No
Employees	16	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	$20.46 per 4,000 gallons.	Storage Capacity	Yes, 6 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	$23.31 per 4,000 gallons.	Total Connections	3,200
Residential Customers	3,179	Total Produced (MG)	386.535
Commercial Customers	239	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	188.310
Industrial Customers	5	Total Wholesale Sold (MG)	82.490
Wholesale Customers	2	Estimated Pct. Water Loss	30%
Total Distribution System Line Length = 168.08 miles (Distribution: 156.99 miles, Transmission: 11.09 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Stanford Water Commission

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21137007	Stanford Water Plant Expansion	6-10 Years	Not Funded	$4,000,000	Lincoln		
WX21137014	City of Stanford - Danville Street System Improvement Project	0-2 Years	Not Funded	$1,060,000	Lincoln		
WX21137039	Withers Lane Water Line Extension Lincoln County	0-2 Years	Not Funded	$100,000	Lincoln		

Madison County

- 2010 census population of 82,916 (35,043 households) with 99% serviceable.
- Projected 2020 population of 95,333 (change of 12,417).
- Madison County has 991.76 miles of existing water lines.
- 5.00 miles of line extensions proposed in the next 10 years.
- 11.00 miles of line rehabilitation proposed in the next 10 years.
- 5.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $27,304,629.
- Estimated funding needs for projects from 6 to 10 years: $1,958,800.



Madison County has a 2010 census population count of 82,916 (35,043 households) with a projected 2020 population count of 95,333 (38,093 households). Public water is currently available to approximately 99 percent of the county's households based on 2010 census counts. Over the next ten years approximately 71,784 instances of improved service through the rehabilitation of 11.00 miles of existing water lines and other appurtenances. 5.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Berea	2	$13,939,000	-	4,600	-	-	-
City of Richmond	7	$7,541,820	-	65,352	2.00	3.00	4.00
Kirksville Water Association	7	$1,711,041	-	1,178	-	5.00	1.00
Madison County Utilities District	4	$3,525,800	-	21	-	1.00	-
Southern Madison Water District	3	$2,545,768	-	633	3.00	2.00	-
Totals:	**23**	**$29,263,429**	**-**	**71,784**	**5.00**	**11.00**	**5.00**

Community Drinking Water Systems in Madison County

Note: Serviceability counts are for households within Madison county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0760030	Berea Municipal Utilities	Madison	9,972	4,131
KY0760672	Kirksville Water Association	Madison	4,301	1,792
KY0760224	Madison County Utilities District	Madison	24,988	10,384
KY0760370	Richmond Water, Gas & Sewer	Madison	31,580	13,695
KY0760407	Southern Madison Water District	Madison	11,299	4,707
KY0330123	Estill County Water District #1	Estill	28	12
KY0400151	Garrard County Water Association	Garrard	137	60
KY0550209	Jackson County Water Association Inc	Jackson	50	21
		Totals:	82,355	34,802

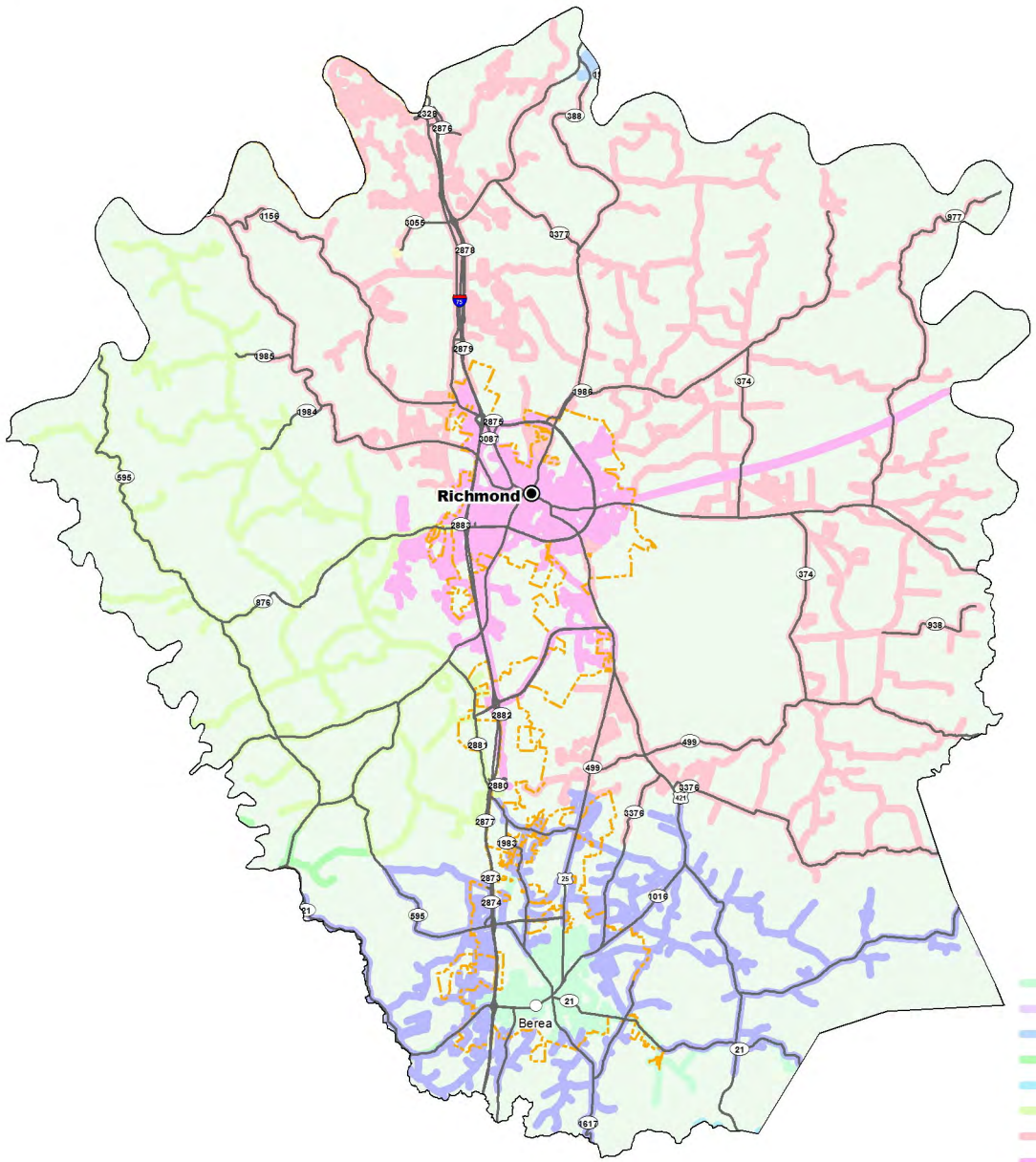
WATER SERVICE AREAS
MADISON COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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January, 2013

Water Resource Information System



System Summary for Berea Municipal Utilities

PWSID	KY0760030	Treats Water	Yes, 1 plant with total capacity of 6.000 MGD.
System Type	Community	Surface Source	Yes, 4 sources.
Owner Type	Incorporated City	Groundwater Source	No
Employees	10	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	$26.03 per 4,000 gallons.	Storage Capacity	Yes, 2 tanks with total capacity of 3.000 MG.
Outside Mun. Cost	$26.03 per 4,000 gallons.	Total Connections	4,053
Residential Customers	3,543	Total Produced (MG)	1,030.000
Commercial Customers	385	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	24.900
Industrial Customers	123	Total Wholesale Sold (MG)	361.563
Wholesale Customers	2	Estimated Pct. Water Loss	62%
Total Distribution System Line Length = 76.25 miles (Distribution: 65.28 miles, Transmission: 10.97 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Berea Municipal Utilities

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21151040	Berea Utilities - Owsley Fork Reservior (Red Lick Creek MPS No. 1) Rehabilitation	0-2 Years	Partially Funded	$13,259,000	Madison	1	6
WX21151053	Raw Water and High Service Pumping and Controls Modification	0-2 Years	Partially Funded	$680,000	Madison	11	4

System Summary for Kirksville Water Association

PWSID	KY0760672	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water Association	Groundwater Source	No
Employees	2	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$34.12 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	1,772
Residential Customers	1,715	Total Produced (MG)	-
Commercial Customers	56	Total Purchased (MG)	110.804
Institutional Customers	2	Total Inside Usage (MG)	6.512
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	94%

Total Distribution System Line Length = 120.37 miles (Distribution: 120.37 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Kirksville Water Association

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21151008	Standby Power Upgrade for Side Storage and College Hill Plant	0-2 Years	Not Funded	$2,546,700	Madison	8	1
WX21151055	Kirksville Water Association - Repaint Newby Tank	0-2 Years	Not Funded	$116,450	Madison	29	3
WX21151046	Richmond Utilities 20" Water Transmission Main Replacement	3-5 Years	Not Funded	$1,479,200	Madison	32	7
WX21151056	Kirksville Water Association - Welchwood Master Meter Connection	0-2 Years	Not Funded	$189,500	Madison	37	8
WX21151020	Kirksville Water Association - Caleast Road Water Line Upgrade	3-5 Years	Not Funded	$667,391	Madison		
WX21151049	Mixing Systems for Two 5Mg Ground Storage Tanks	3-5 Years	Not Funded	$338,300	Madison		
WX21151057	Kirksville Water Association - Welchwood / John Ballard WL Repla	3-5 Years	Not Funded	$284,600	Madison		
WX21151034	Barnes Mill Waterline Loop-Kirksville Water Association	3-5 Years	Not Funded	$195,100	Madison		
WX21151025	Highway 595 Water Line Replacement	6-10 Years	Not Funded	$190,200	Madison		
WX21151037	Kirksville Water Association - Highway 595 (Kirksville Road) Water Line Replacement	3-5 Years	Not Funded	$67,800	Madison		

System Summary for Madison County Utilities District

PWSID	KY0760224	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	16	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$23.80 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 4 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	11,000
Residential Customers	9,488	Total Produced (MG)	-
Commercial Customers	623	Total Purchased (MG)	652.064
Institutional Customers	24	Total Inside Usage (MG)	467.529
Industrial Customers	4	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	28%

Total Distribution System Line Length = 418.84 miles (Distribution: 418.84 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Madison County Utilities District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21151008	Standby Power Upgrade for Side Storage and College Hill Plant	0-2 Years	Not Funded	$2,546,700	Madison	8	1
WX21151059	Whitt Road Water Line Replacement	0-2 Years	Not Funded	$165,400	Madison	30	5
WX21151046	Richmond Utilities 20" Water Transmission Main Replacement	3-5 Years	Not Funded	$1,479,200	Madison	32	7
WX21151024	Eastern 500,000 Gallon Tank - Madison County Utilities District	6-10 Years	Not Funded	$1,345,600	Madison		
WX21151022	Boonesboro 500,000 Gallon Elevated Tank Madison County Utilities District	3-5 Years	Not Funded	$1,284,500	Madison		
WX21151039	Madison County Utilities District - Radio Read Meters	0-2 Years	Not Funded	$730,300	Madison		
WX21151049	Mixing Systems for Two 5Mg Ground Storage Tanks	3-5 Years	Not Funded	$338,300	Madison		

System Summary for Richmond Water, Gas & Sewer

PWSID	KY0760370	Treats Water	Yes, 1 plant with total capacity of 12.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Municipal Utility Board or Commission	Groundwater Source	No
Employees	72	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	$18.24 per 4,000 gallons.	Storage Capacity	Yes, 8 tanks with total capacity of 14.000 MG.
Outside Mun. Cost	$23.07 per 4,000 gallons.	Total Connections	12,618
Residential Customers	11,459	Total Produced (MG)	2,325.050
Commercial Customers	1,101	Total Purchased (MG)	-
Institutional Customers	30	Total Inside Usage (MG)	-
Industrial Customers	26	Total Wholesale Sold (MG)	762.868
Wholesale Customers	2	Estimated Pct. Water Loss	67%

Total Distribution System Line Length = 209.48 miles (Distribution: 193.88 miles, Transmission: 15.61 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Richmond Water, Gas & Sewer

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21151008	Standby Power Upgrade for Side Storage and College Hill Plant	0-2 Years	Not Funded	$2,546,700	Madison	8	1
WX21151046	Richmond Utilities 20" Water Transmission Main Replacement	3-5 Years	Not Funded	$1,479,200	Madison	32	7
WX21151047	Richmond Main Street 10" Line Replacement	0-2 Years	Not Funded	$1,241,750	Madison		
WX21151045	Richmond Westover 8" Water Main Replacement	0-2 Years	Not Funded	$912,870	Madison		
WX21151012	Richmond Utilities Boggs Lane Main Phase II	3-5 Years	Not Funded	$600,000	Madison		
WX21151006	Richmond Utilities Red House Road 12" Water Line Connector.	6-10 Years	Not Funded	$423,000	Madison		
WX21151049	Mixing Systems for Two 5Mg Ground Storage Tanks	3-5 Years	Not Funded	$338,300	Madison		

System Summary for Southern Madison Water District

PWSID	KY0760407	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	10	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$24.96 per 4,000 gallons.	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	4,964
Residential Customers	4,862	Total Produced (MG)	-
Commercial Customers	98	Total Purchased (MG)	335.563
Institutional Customers	1	Total Inside Usage (MG)	239.092
Industrial Customers	2	Total Wholesale Sold (MG)	5.928
Wholesale Customers	1	Estimated Pct. Water Loss	27%
Total Distribution System Line Length = 158.34 miles (Distribution: 158.34 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Southern Madison Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21151053	Raw Water and High Service Pumping and Controls Modification	0-2 Years	Partially Funded	$680,000	Madison	11	4
WX21151003	I-75 and KY 595 Water Extension Project	3-5 Years	Not Funded	$1,982,768	Madison		
WX21151054	SMWD-Scaffold Cane Area Waterline Extension Project	0-2 Years	Partially Funded	$313,000	Madison		
WX21151032	Southern Madison Water District - Smith Lane Water Line Upgrade Project	0-2 Years	Not Funded	$250,000	Madison		

Mercer County

- 2010 census population of 21,331 (9,941 households) with 99% serviceable.
- Projected 2020 population of 21,810 (change of 479).
- Mercer County has 467.51 miles of existing water lines.
- There are no line extensions proposed in the next 10 years.
- 11.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $4,879,360.
- There are no projects planned from 6 to 10 years.



Mercer County has a 2010 census population count of 21,331 (9,941 households) with a projected 2020 population count of 21,810 (9,299 households). Public water is currently available to approximately 99 percent of the county's households based on 2010 census counts. Over the next ten years approximately 3,061 instances of improved service through the rehabilitation of 11.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Harrodsburg	3	$3,704,360	-	447	-	5.00	-
Lake Village Water Association Inc	2	$1,175,000	-	2,614	-	6.00	-
Totals:	**5**	**$4,879,360**	-	**3,061**	-	**11.00**	-

Community Drinking Water Systems in Mercer County

Note: Serviceability counts are for households within Mercer county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0840048	Burgin Water Department	Mercer	1,041	467
KY0840180	Harrodsburg Municipal Water Department	Mercer	8,363	4,001
KY0840587	Lake Village Water Association	Mercer	3,048	1,739
KY0840321	North Mercer Water District	Mercer	8,590	3,616
		Totals:	21,042	9,823

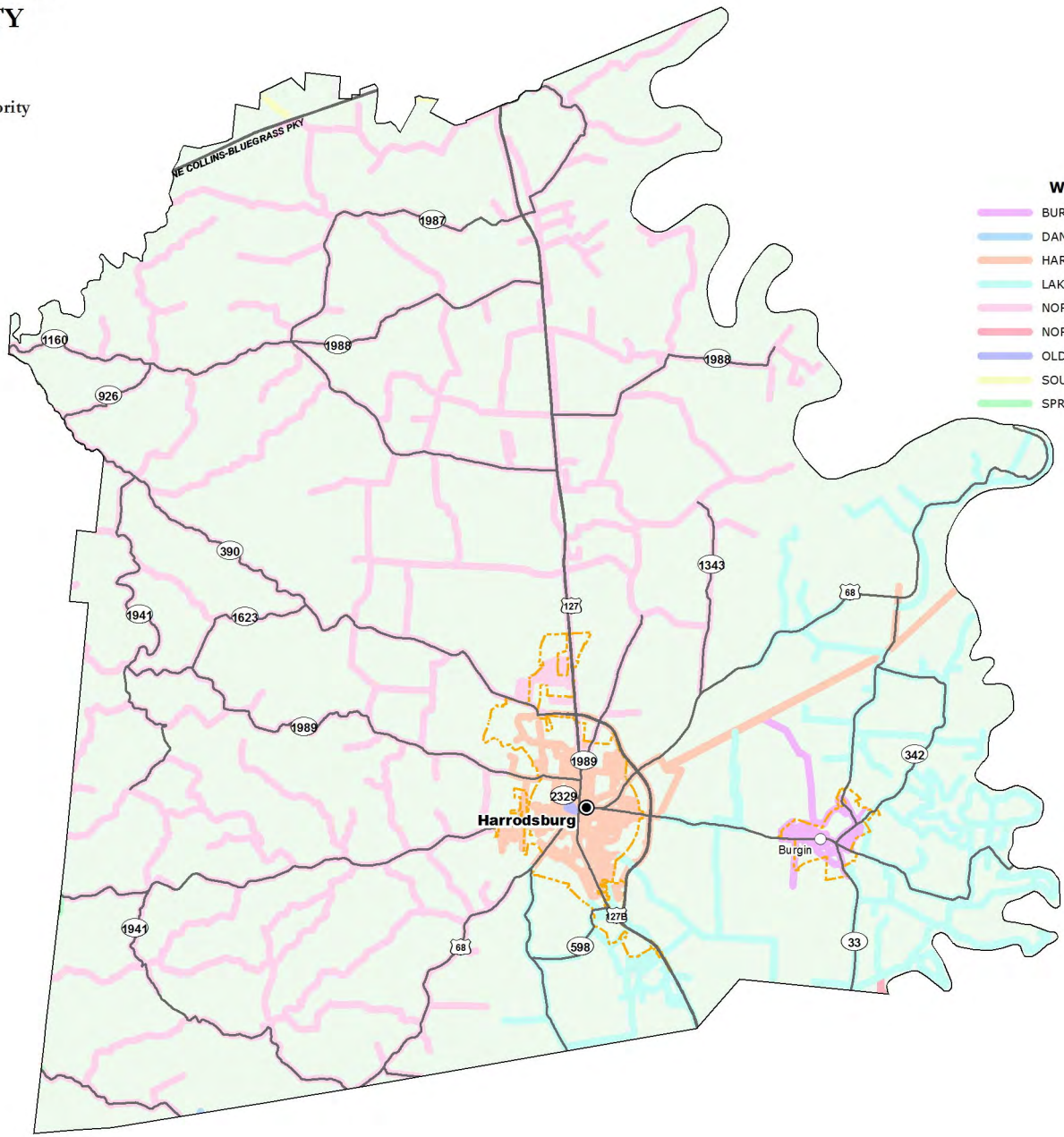
WATER SERVICE AREAS
MERCER COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

Kentucky Infrastructure Authority
1024 Capital Center Drive
Frankfort, KY 40601
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http://kia.ky.gov

January, 2013

Water Resource Information System



System Summary for Burgin Water Department

PWSID	KY0840048	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	3	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$44.58 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	485
Residential Customers	469	Total Produced (MG)	-
Commercial Customers	26	Total Purchased (MG)	13.638
Institutional Customers	-	Total Inside Usage (MG)	24.627
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	-81%

Total Distribution System Line Length = 14.30 miles (Distribution: 14.30 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Burgin Water Department

System Summary for Harrodsburg Municipal Water Department

PWSID	KY0840180	Treats Water	Yes, 1 plant with total capacity of 6.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	20	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 3 purchasers.
Inside Mun. Cost	$20.55 per 4,000 gallons.	Storage Capacity	Yes, 3 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	$20.55 per 4,000 gallons.	Total Connections	3,951
Residential Customers	3,567	Total Produced (MG)	1,643.999
Commercial Customers	262	Total Purchased (MG)	-
Institutional Customers	75	Total Inside Usage (MG)	784.285
Industrial Customers	22	Total Wholesale Sold (MG)	349.529
Wholesale Customers	3	Estimated Pct. Water Loss	31%
Total Distribution System Line Length = 80.33 miles (Distribution: 78.81 miles, Transmission: 1.52 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Harrodsburg Municipal Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21167028	College St. and Chestnut St. Water Lines	0-2 Years	Not Funded	$326,660	Mercer	16	2
WX21167029	Water Distribution Main Replacement 2015	0-2 Years	Not Funded	$2,887,200	Mercer		
WX21167030	Bay West Water Storage Tank Improvements	0-2 Years	Not Funded	$490,500	Mercer		

System Summary for Lake Village Water Association

PWSID	KY0840587	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water Association	Groundwater Source	No
Employees	6	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	$41.30 per 4,000 gallons.	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	2,359
Residential Customers	2,326	Total Produced (MG)	-
Commercial Customers	33	Total Purchased (MG)	231.142
Institutional Customers	-	Total Inside Usage (MG)	134.200
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	1	Estimated Pct. Water Loss	42%
Total Distribution System Line Length = 128.31 miles (Distribution: 128.31 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Lake Village Water Association

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21167011	Lake Village Water Association - Water Master Plan	0-2 Years	Not Funded	$75,000	Mercer	17	4
WX21167017	Lake Village Water Association - Contract 14 Water Main West Zone Upgrades	0-2 Years	Not Funded	$1,100,000	Mercer	23	1

System Summary for North Mercer Water District

PWSID	KY0840321	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	9	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	$37.06 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 6 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	4,320
Residential Customers	4,188	Total Produced (MG)	-
Commercial Customers	81	Total Purchased (MG)	304.220
Institutional Customers	51	Total Inside Usage (MG)	307.476
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	-1%
Total Distribution System Line Length = 320.42 miles (Distribution: 320.19 miles, Transmission: 0.23 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for North Mercer Water District

Nicholas County

- 2010 census population of 7,135 (3,261 households) with 97% serviceable.
- Projected 2020 population of 7,411 (change of 276).
- Nicholas County has 283.16 miles of existing water lines.
- There are no line extensions proposed in the next 10 years.
- 3.00 miles of line rehabilitation proposed in the next 10 years.
- 6.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $7,055,150.
- Estimated funding needs for projects from 6 to 10 years: $6,010,000.



Nicholas County has a 2010 census population count of 7,135 (3,261 households) with a projected 2020 population count of 7,411 (3,012 households). Public water is currently available to approximately 97 percent of the county's households based on 2010 census counts. Over the next ten years approximately 2 serviceable households will be added through the construction of 0.00 miles of water line extensions and approximately 3,190 instances of improved service through the rehabilitation of 3.00 miles of existing water lines and other appurtenances. 6.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Carlisle	6	$12,210,000	-	3,155	-	1.00	6.00
Nicholas County Water District	1	$185,000	2	35	-	2.00	-
Sharpsburg Water District	1	$500,000	-	-	-	-	-
Western Fleming County Water District	1	$170,150	-	-	-	-	-
Totals:	**9**	**$13,065,150**	**2**	**3,190**	**-**	**3.00**	**6.00**

Community Drinking Water Systems in Nicholas County

Note: Serviceability counts are for households within Nicholas county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0910065	Carlisle Water Department	Nicholas	2,045	1,059
KY0910314	Nicholas County Water District	Nicholas	3,416	1,483
KY0060392	Sharpsburg Water District	Bath	1,263	541
KY0910675	Western Fleming Water District	Fleming	37	20
KY0490179	Harrison County Water Association	Harrison	82	39
		Totals:	6,843	3,142

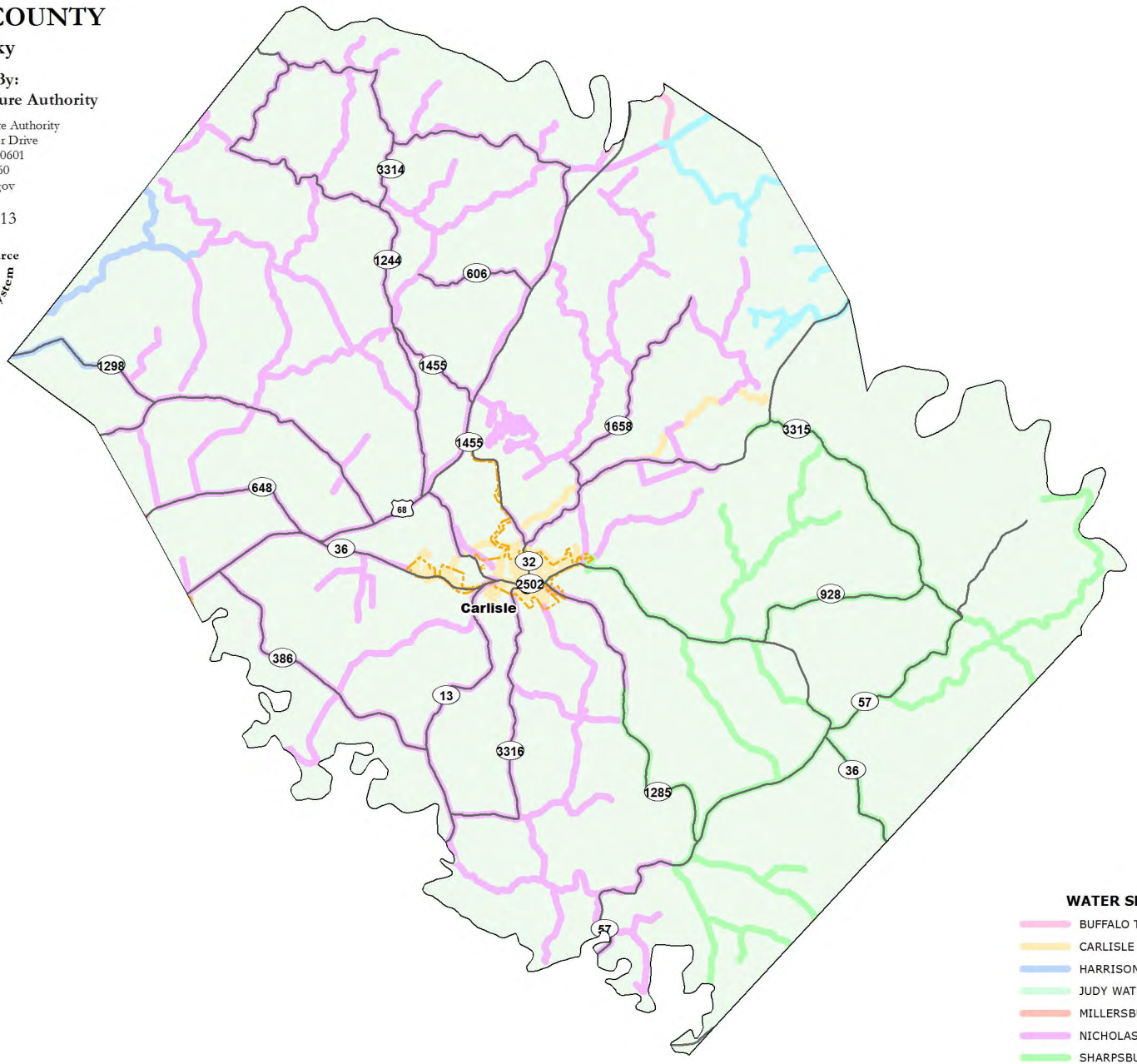
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Kentucky

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Water Resource Information System



System Summary for Carlisle Water Department

PWSID	KY0910065	Treats Water	Yes, 1 plant with total capacity of 1.368 MGD.
System Type	Community	Surface Source	Yes, 2 sources.
Owner Type	Incorporated City	Groundwater Source	No
Employees	4	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	$22.24 per 4,000 gallons.	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$28.89 per 4,000 gallons.	Total Connections	1,100
Residential Customers	915	Total Produced (MG)	130.000
Commercial Customers	78	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	1.122
Industrial Customers	-	Total Wholesale Sold (MG)	58.777
Wholesale Customers	2	Estimated Pct. Water Loss	54%
Total Distribution System Line Length = 27.88 miles (Distribution: 17.29 miles, Transmission: 10.59 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Carlisle Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21181001	Carlisle Water Treatment Plant Expansion	6-10 Years	Not Funded	$5,375,000	Nicholas		
WX21181004	City of Carlisle Raw Water Intake Improvements	3-5 Years	Not Funded	$3,600,000	Nicholas		
WX21181006	Phase 2 - Drinking Water System Improvements	3-5 Years	Not Funded	$1,195,000	Nicholas		
WX21181009	Phase 3 - Drinking Water System Improvements	3-5 Years	Not Funded	$820,000	Nicholas		
WX21181008	Carlisle Water Treatment Plant Renovation	6-10 Years	Not Funded	$635,000	Nicholas		
WX21181010	Carlisle Jockey Tank Rehabilitation	3-5 Years	Not Funded	$585,000	Nicholas		

System Summary for Nicholas County Water District

PWSID	KY0910314	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	2	Wholesale Purchaser	Yes, from 4 providers.
Non-Municipal Cost	$31.78 per 4,000 gallons.	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	1,532
Residential Customers	1,521	Total Produced (MG)	-
Commercial Customers	11	Total Purchased (MG)	121.551
Institutional Customers	-	Total Inside Usage (MG)	68.624
Industrial Customers	-	Total Wholesale Sold (MG)	27.683
Wholesale Customers	1	Estimated Pct. Water Loss	21%
Total Distribution System Line Length = 186.95 miles (Distribution: 186.95 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Nicholas County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21181007	NCWD - Headquarters Road and Stoney Creek Road Improvements	0-2 Years	Not Funded	$185,000	Nicholas		

Powell County

- 2010 census population of 12,613 (5,598 households) with 98% serviceable.
- Projected 2020 population of 12,319 (change of -294).
- Powell County has 276.76 miles of existing water lines.
- There are no line extensions proposed in the next 10 years.
- 1.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $2,365,266.
- Estimated funding needs for projects from 6 to 10 years: $796,045.



Powell County has a 2010 census population count of 12,613 (5,598 households) with a projected 2020 population count of 12,319 (4,860 households). Public water is currently available to approximately 98 percent of the county's households based on 2010 census counts. Over the next ten years approximately 8 serviceable households will be added through the construction of 0.00 miles of water line extensions and approximately 14,226 instances of improved service through the rehabilitation of 1.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Beech Fork Water Commission	1	$1,186,500	-	5,225	-	-	-
City of Campton	1	$167,036	6	-	-	-	-
City of Clay City	1	$550,000	-	-	-	-	-
Levee Road Water Association Inc	1	$246,045	-	-	-	-	-
Powell's Valley Water District	8	$1,011,730	2	9,001	-	1.00	-
Totals:	**12**	**$3,161,311**	**8**	**14,226**	**-**	**1.00**	**-**

Community Drinking Water Systems in Powell County

Note: Serviceability counts are for households within Powell county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0990074	Clay City Water System	Powell	1,635	746
KY0990357	Powells Valley Water District	Powell	5,268	2,353
KY0990418	Stanton Water Commission	Powell	5,393	2,316
KY0330123	Estill County Water District #1	Estill	17	11
KY0870246	Levee Road Water Association, Inc	Montgomery	29	12
KY1190061	Campton Water System	Wolfe	76	44
		Totals:	12,418	5,482

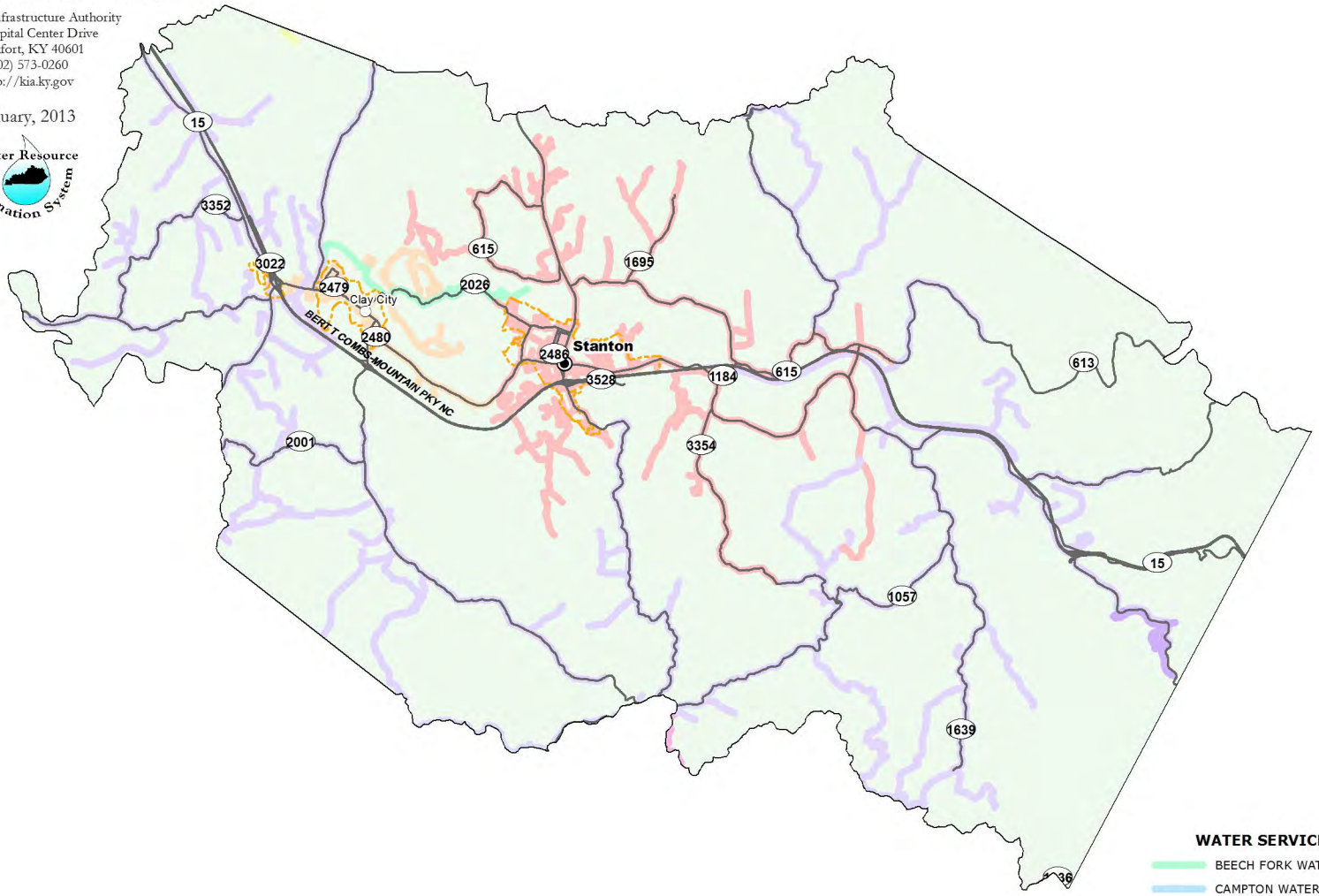
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Kentucky

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Water Resource Information System



WATER SERVICE BY OWNER

- BEECH FORK WATER COMMISSION
- CAMPTON WATER SYSTEM
- CLAY CITY WATER SYSTEM
- ESTILL COUNTY WATER DISTRICT #1
- LEVEE ROAD WATER ASSOCIATION, INC
- NATURAL BRIDGE STATE RESORT PARK
- POWELLS VALLEY WATER DISTRICT
- STANTON WATER COMMISSION

System Summary for Beech Fork Water Commission

PWSID	KY0990281	Treats Water	Yes, 1 plant with total capacity of 1.944 MGD.
System Type	Community	Surface Source	Yes, 2 sources.
Owner Type	Municipal Utility Board or Commission	Groundwater Source	No
Employees	6	Wholesale Purchaser	No
Non-Municipal Cost	$7.68 per 4,000 gallons.	Wholesale Provider	Yes, to 3 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 2 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	
Residential Customers	-	Total Produced (MG)	424.495
Commercial Customers	-	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	-
Industrial Customers	-	Total Wholesale Sold (MG)	365.434
Wholesale Customers	3	Estimated Pct. Water Loss	14%
Total Distribution System Line Length = 6.39 miles (Distribution: 0.00 miles, Transmission: 6.39 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Beech Fork Water Commission

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21197011	Water Treatment Plant Floor Repair	0-2 Years	Partially Funded	$1,186,500	Powell	6	1

System Summary for Clay City Water System

PWSID	KY0990074	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	3	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$29.78 per 4,000 gallons.	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$39.89 per 4,000 gallons.	Total Connections	694
Residential Customers	634	Total Produced (MG)	-
Commercial Customers	55	Total Purchased (MG)	31.438
Institutional Customers	-	Total Inside Usage (MG)	31.438
Industrial Customers	5	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	0%
Total Distribution System Line Length = 20.32 miles (Distribution: 19.13 miles, Transmission: 1.19 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Clay City Water System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21197011	Water Treatment Plant Floor Repair	0-2 Years	Partially Funded	$1,186,500	Powell	6	1
WX21197007	City of Clay City - 150,000 Gallon Elevated Water Storage Tank	6-10 Years	Not Funded	$550,000	Powell		

System Summary for Powells Valley Water District

PWSID	KY0990357	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	9	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	$39.34 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 7 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	2,337
Residential Customers	2,227	Total Produced (MG)	-
Commercial Customers	110	Total Purchased (MG)	129.996
Institutional Customers	-	Total Inside Usage (MG)	110.090
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	15%

Total Distribution System Line Length = 168.50 miles (Distribution: 168.50 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Powells Valley Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21197011	Water Treatment Plant Floor Repair	0-2 Years	Partially Funded	$1,186,500	Powell	6	1
WX21197008	Powells Valley Beechfork Pump Station Replacement Project	0-2 Years	Not Funded	$213,200	Powell		
WX21197015	Water Tank Improvements Project	0-2 Years	Not Funded	$174,400	Powell		
WX21197016	Happy Top and Ballards Branch PSs Variable Frequency Drives Project	0-2 Years	Not Funded	$174,400	Powell		
WX21197013	Black Creek Pump Station Project	0-2 Years	Not Funded	$158,000	Powell		
WX21197009	Powells Valley - Stokely Branch Road Waterline Replacement Project	0-2 Years	Not Funded	$90,000	Powell		
WX21197004	Powells Valley Water District-Black Creek Water Line Extension	0-2 Years	Partially Funded	$86,530	Powell		
WX21197014	Frames Branch Water Tank Project	0-2 Years	Not Funded	$77,500	Powell		
WX21197012	Wells Lane Water Line Project	0-2 Years	Not Funded	$37,700	Powell		

System Summary for Stanton Water Commission

PWSID	KY0990418	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	4	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$27.12 per 4,000 gallons.	Storage Capacity	Yes, 4 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	$34.45 per 4,000 gallons.	Total Connections	2,312
Residential Customers	2,112	Total Produced (MG)	-
Commercial Customers	200	Total Purchased (MG)	204.000
Institutional Customers	-	Total Inside Usage (MG)	120.822
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	1	Estimated Pct. Water Loss	41%

Total Distribution System Line Length = 86.70 miles (Distribution: 86.70 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Stanton Water Commission

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21197011	Water Treatment Plant Floor Repair	0-2 Years	Partially Funded	$1,186,500	Powell	6	1

Scott County

- 2010 census population of 47,173 (19,303 households) with 97% serviceable.
- Projected 2020 population of 63,984 (change of 16,811).
- Scott County has 596.92 miles of existing water lines.
- 1.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $360,000.
- There are no projects planned from 6 to 10 years.



Scott County has a 2010 census population count of 47,173 (19,303 households) with a projected 2020 population count of 63,984 (25,538 households). Public water is currently available to approximately 97 percent of the county's households based on 2010 census counts. Over the next ten years.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Georgetown	1	$360,000	-	-	1.00	-	-
Totals:	**1**	**$360,000**	**-**	**-**	**1.00**	**-**	**-**

Community Drinking Water Systems in Scott County

Note: Serviceability counts are for households within Scott county only.

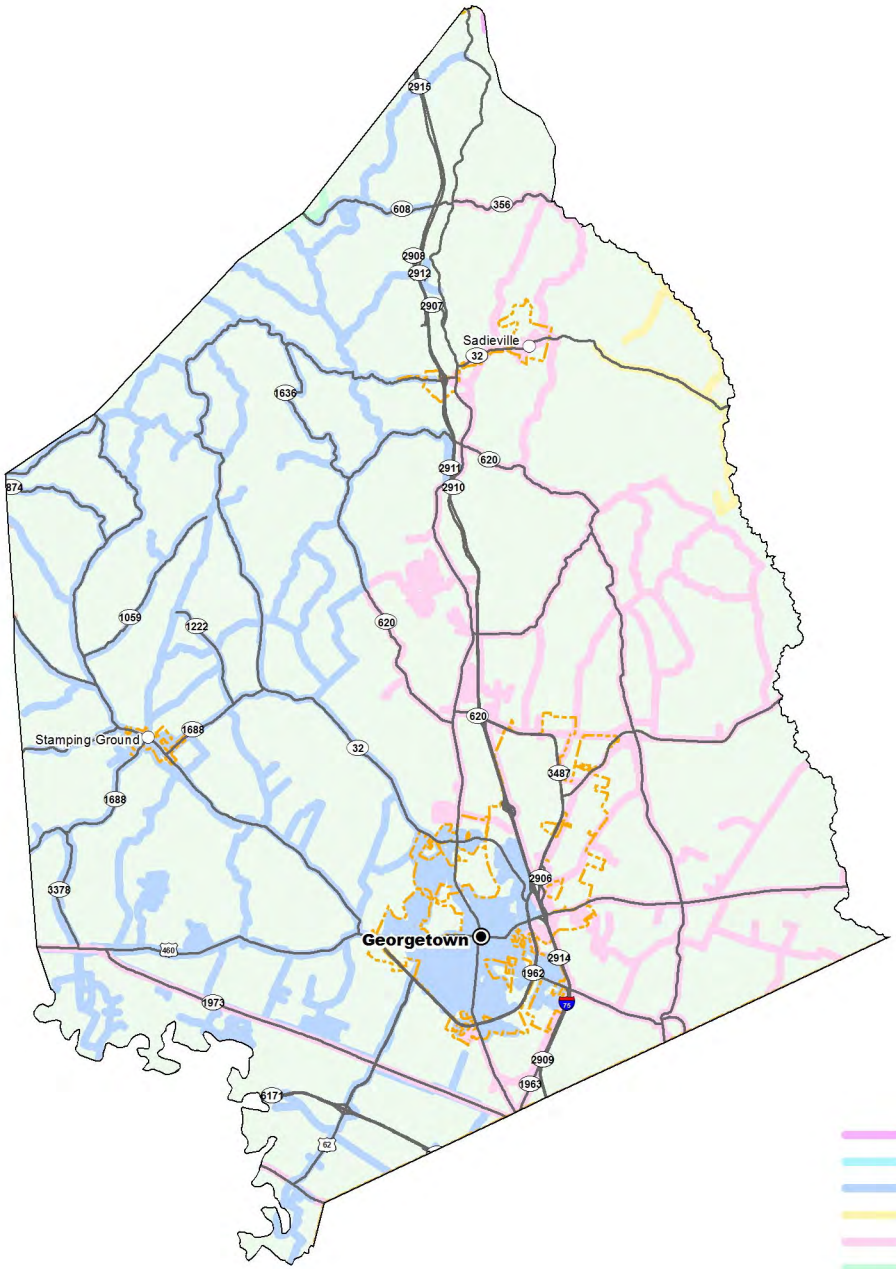
PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY1050157	Georgetown Municipal Water & Sewer Service	Scott	32,899	13,616
KY0340250	Kentucky-American Water Company	Fayette	12,766	5,062
KY0490179	Harrison County Water Association	Harrison	255	119
		Totals:	45,920	18,797

WATER SERVICE AREAS
SCOTT COUNTY
Kentucky

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WATER SERVICE BY OWNER

- CORINTH WATER DISTRICT
- ELKHORN WATER DISTRICT
- GEORGETOWN MUNICIPAL WATER & SEWER SERVICE
- HARRISON COUNTY WATER ASSOCIATION
- KENTUCKY-AMERICAN WATER COMPANY
- KENTUCKY-AMERICAN WATER COMPANY - NORTHERN DIVISION
- PEAKS MILL WATER DISTRICT

System Summary for Georgetown Municipal Water & Sewer Service

PWSID	KY1050157	Treats Water	Yes, 1 plant with total capacity of 4.000 MGD.
System Type	Community	Surface Source	Yes, 2 sources.
Owner Type	Municipal Utility Board or Commission	Groundwater Source	No
Employees	50	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$18.14 per 4,000 gallons.	Storage Capacity	Yes, 5 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	$18.14 per 4,000 gallons.	Total Connections	12,381
Residential Customers	11,188	Total Produced (MG)	919.124
Commercial Customers	1,181	Total Purchased (MG)	271.388
Institutional Customers	-	Total Inside Usage (MG)	843.378
Industrial Customers	12	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	29%
Total Distribution System Line Length = 396.83 miles (Distribution: 396.06 miles, Transmission: 0.76 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Georgetown Municipal Water & Sewer Service

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21209005	Champion Way 16" Water Main Extension	3-5 Years	Not Funded	$360,000	Scott		

Woodford County

- 2010 census population of 24,939 (10,711 households) with 96% serviceable.
- Projected 2020 population of 26,817 (change of 1,878).
- Woodford County has 323.61 miles of existing water lines.
- 13.00 miles of line extensions proposed in the next 10 years.
- 4.00 miles of line rehabilitation proposed in the next 10 years.
- 2.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $9,530,525.
- There are no projects planned from 6 to 10 years.



Woodford County has a 2010 census population count of 24,939 (10,711 households) with a projected 2020 population count of 26,817 (11,147 households). Public water is currently available to approximately 96 percent of the county's households based on 2010 census counts. Over the next ten years approximately 111 serviceable households will be added through the construction of 13.00 miles of water line extensions and approximately 12,097 instances of improved service through the rehabilitation of 4.00 miles of existing water lines and other appurtenances. 2.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Versailles	3	$5,161,125	57	12,012	3.00	-	1.00
Frankfort Electric & Water Plant Board	1	$1,700,000	-	-	-	-	-
Northeast Woodford County Water District	2	$183,400	2	50	1.00	1.00	-
South Woodford Water District	4	$1,126,000	-	35	1.00	3.00	1.00
Woodford County Fiscal Court	2	$1,360,000	52	-	8.00	-	-
Totals:	**12**	**$9,530,525**	**111**	**12,097**	**13.00**	**4.00**	**2.00**

Community Drinking Water Systems in Woodford County

Note: Serviceability counts are for households within Woodford county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY1200283	Midway Municipal Water Works	Woodford	1,734	757
KY1200310	Northeast Woodford County Water District	Woodford	2,207	945
KY1200411	South Woodford County Water District	Woodford	3,740	1,628
KY1200439	Versailles Municipal Water	Woodford	14,370	6,110
KY0340250	Kentucky-American Water Company	Fayette	501	205
KY0370143	Frankfort Plant Board	Franklin	1,302	635
KY0570249	Jessamine- South Elkhorn Water District	Jessamine	46	18
KY1050157	Georgetown Municipal Water & Sewer Service	Scott	52	19
		Totals:	23,952	10,317

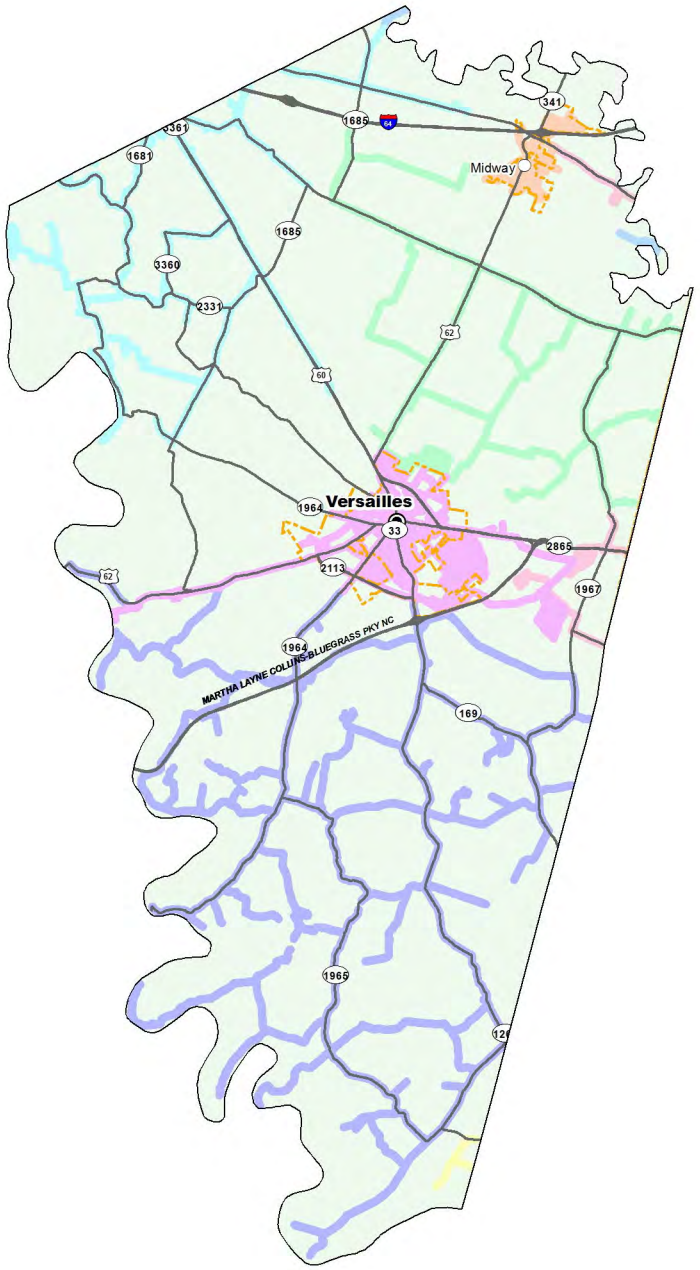
WATER SERVICE AREAS
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Water Resource Information System



System Summary for Midway Municipal Water Works

PWSID	KY1200283	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	3	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$45.54 per 4,000 gallons.	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$45.54 per 4,000 gallons.	Total Connections	740
Residential Customers	686	Total Produced (MG)	-
Commercial Customers	44	Total Purchased (MG)	73.016
Institutional Customers	-	Total Inside Usage (MG)	38.900
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	47%
Total Distribution System Line Length = 15.87 miles (Distribution: 15.87 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Midway Municipal Water Works

System Summary for Northeast Woodford County Water District

PWSID	KY1200310	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	3	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$21.20 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	995
Residential Customers	995	Total Produced (MG)	-
Commercial Customers	-	Total Purchased (MG)	141.585
Institutional Customers	-	Total Inside Usage (MG)	153.037
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	-8%
Total Distribution System Line Length = 47.42 miles (Distribution: 47.42 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Northeast Woodford County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21239009	Sugar Hill Road Extension	0-2 Years	Not Funded	$123,400	Woodford	34	2
WX21073019	HWY 1685 Water Line Inter-Connectivity Project	0-2 Years	Not Funded	$1,700,000	Franklin		
WX21239031	Northeast Woodford Water District-Old Frankfort Pike Reconstruct	0-2 Years	Not Funded	$60,000	Woodford		

System Summary for South Woodford County Water District

PWSID	KY1200411	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	3	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$29.54 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	1,560
Residential Customers	1,539	Total Produced (MG)	-
Commercial Customers	21	Total Purchased (MG)	153.129
Institutional Customers	-	Total Inside Usage (MG)	130.085
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	15%

Total Distribution System Line Length = 107.91 miles (Distribution: 107.91 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for South Woodford County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21239026	Versailles Raw Water Main Replacement	0-2 Years	Not Funded	$1,234,500	Woodford	7	3
WX21239015	South Woodford Water District - Cummins Ferry Water Line Replace	0-2 Years	Not Funded	$412,000	Woodford	36	5
WX21239022	South Woodford Water District Radio Read Meters	3-5 Years	Not Funded	$378,500	Woodford		
WX21239017	South Woodford Water District - Fords Mill/Sellers Mill Water Line Connection	3-5 Years	Not Funded	$243,000	Woodford		
WX21239016	South Woodford Water District-Emergency Connection to Jessamine S. Elkhorn Water District (Jsewd)	3-5 Years	Not Funded	$92,500	Woodford		

System Summary for Versailles Municipal Water

PWSID	KY1200439	Treats Water	Yes, 1 plant with total capacity of 10.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	12	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	$19.99 per 4,000 gallons.	Storage Capacity	Yes, 4 tanks with total capacity of 4.000 MG.
Outside Mun. Cost	$23.51 per 4,000 gallons.	Total Connections	6,230
Residential Customers	5,497	Total Produced (MG)	1,202.666
Commercial Customers	733	Total Purchased (MG)	0.023
Institutional Customers	-	Total Inside Usage (MG)	327.000
Industrial Customers	7	Total Wholesale Sold (MG)	294.714
Wholesale Customers	2	Estimated Pct. Water Loss	48%
Total Distribution System Line Length = 94.88 miles (Distribution: 84.11 miles, Transmission: 10.77 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Versailles Municipal Water

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21239026	Versailles Raw Water Main Replacement	0-2 Years	Not Funded	$1,234,500	Woodford	7	3
WX21239029	City of Versailles - Water Distribution System Improvements	0-2 Years	Not Funded	$2,350,000	Woodford	15	4
WX21239030	Automatic Meter Reading (AMR) System	0-2 Years	Not Funded	$1,576,625	Woodford		

Barren River Area Development District (BRADD)



- 2010 census population of 284,195 (126,280 households) with 97% serviceable.
- Projected 2020 population of 316,297 (change of 32,102).
- 6,730.22 miles of existing water lines.
- 113.00 miles of line extensions proposed in the next 10 years.
- 74.00 miles of line rehabilitation proposed in the next 10 years.
- 32.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $120,472,756.
- Estimated funding needs for projects from 6 to 10 years: $13,088,200.
- Average age of structures: water treatment plants is 36 years; water tanks is 27 years.
- Total number of interconnected systems is 42.
- 179 miles of asbestos concrete pipe currently in use.
- 1,276 miles of water lines less than 15 years old.
- 1,266 miles of water lines between 15 and 30 years old.
- 2,689 miles of water lines between 31 and 50 years old.
- 1,585 miles of water lines between 51 and 70 years old.
- 20 miles of water lines greater than 70 years old.

Barren River Area Development District has a 2010 census population count of 284,195 (126,280 households) with a projected 2020 population count of 316,297 (128,239 households). Public water is currently available to approximately 97 percent of the district's households based on 2010 census counts. Over the next ten years approximately 1,198 serviceable households will be added through the construction of 113.00 miles of water line extensions and approximately 103,385 instances of improved service through the rehabilitation of 74.00 miles of existing water lines and other appurtenances. 32.00 miles of transmission lines are also proposed within this district.

County Summary for Barren River Area Development District

County Name	2010 Population	2010 Households	2020 Population	2020 Households	Serviceable Households	Percent Serviceable	Planned Cost 0 to 10 Years
Allen	19,956	9,307	22,366	9,171	9,091	98%	$ 6,309,950
Barren	42,173	19,188	46,361	19,245	19,113	100%	$ 12,608,000
Butler	12,690	5,877	12,544	5,178	5,660	96%	$ 7,887,150
Edmonson	12,161	6,467	12,628	5,283	6,380	99%	$ 4,675,203
Hart	18,199	8,559	18,690	7,604	8,447	99%	$ 23,886,783
Logan	26,835	12,339	27,382	11,301	12,140	98%	$ 7,376,502
Metcalfe	10,099	4,681	10,329	4,306	4,529	97%	$ 4,491,000
Monroe	10,963	5,204	10,405	4,423	5,089	98%	$ 19,275,200
Simpson	17,327	7,435	18,342	7,429	7,180	97%	$ 9,361,975
Warren	113,792	47,223	137,250	54,299	44,731	95%	$ 37,689,193
Totals	**284,195**	**126,280**	**316,297**	**128,239**	**122,360**	**97%**	**$ 133,560,956**

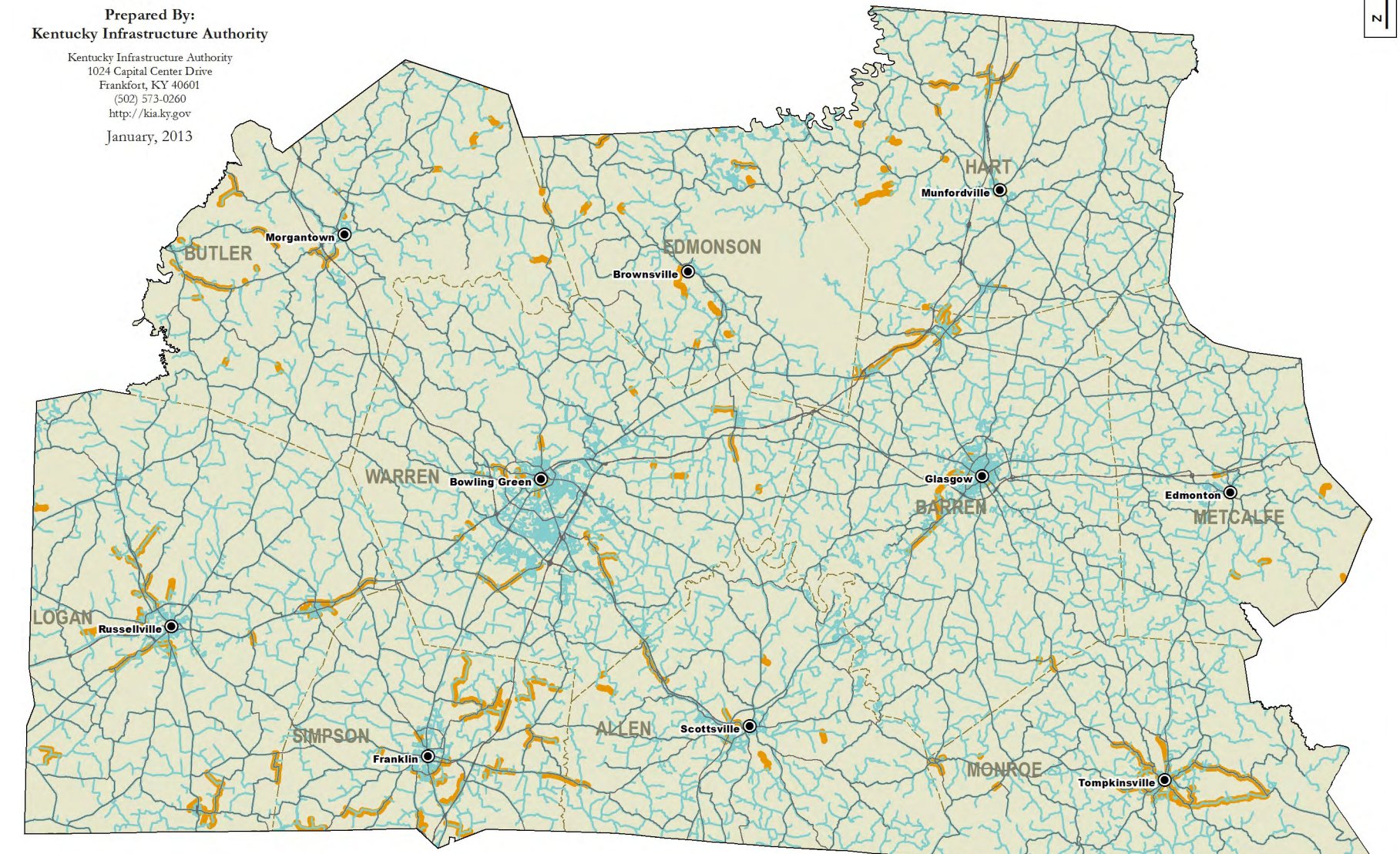
EXISTING & PROPOSED WATER LINES

BRADD

Prepared By:
Kentucky Infrastructure Authority

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January, 2013



Community Water Systems in Barren River Area Development District County

Note: Serviceable counts include households outside the area development district.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0020956	Allen County Water District	Allen	13,520	6,136
KY0020386	Scottsville Water Department	Allen	5,092	2,442
KY0050490	Cave City Water System	Barren	2,676	1,313
KY0050344	Caveland Environmental Authority	Barren	590	282
KY0050929	Glasgow Water Company	Barren	36,745	16,708
KY0160052	Butler County Water System	Butler	10,677	4,920
KY0160294	Morgantown Utilities	Butler	2,202	1,015
KY0310706	Brownsville Municipal Water System	Edmonson	692	349
KY0310114	Edmonson County Water District	Edmonson	17,603	10,369
KY0500032	Bonnieville Water District	Hart	444	247
KY0500166	Green River Valley Water District	Hart	16,339	7,293
KY0500476	Horse Cave Water System	Hart	2,285	1,111
KY0500305	Munfordville Water Works	Hart	1,484	757
KY0710001	Adairville Water Works	Logan	916	441
KY0710012	Auburn Water Department	Logan	1,379	647
KY0710951	East Logan Water District	Logan	7,788	3,198
KY0710247	Lewisburg Water Works	Logan	2,501	1,207
KY0710318	North Logan Water District	Logan	1,400	620
KY0710378	Russellville Municipal Water System	Logan	7,167	3,443
KY0710707	South Logan Water Association	Logan	4,106	1,816
KY0850115	Edmonton Water Works	Metcalfe	7,192	3,316
KY0860141	Fountain Run Water District #1	Monroe	882	487
KY0860150	Monroe County Water District	Monroe	8,002	3,703
KY0860426	Tompkinsville Water Works	Monroe	2,270	1,135
KY1070144	Franklin Water Works	Simpson	10,457	4,592
KY1070398	Simpson County Water District	Simpson	6,693	2,795
KY1140038	Bowling Green Municipal Utilities	Warren	46,878	19,759
KY1140487	Warren County Water District	Warren	61,349	25,054
		Totals:	279,329	125,155

Barren River Area Development District
Regional Water Needs Assessment

Primary Need: **Repair and Replace Existing Infrastructure**
Secondary Need: **Extend Services to Unserved Areas**

Discussion of Area Development District Needs:

The majority of planning units within the BRADD region have identified the repair and replacement of existing infrastructure as the primary need within their respective county. Evidence of this need is reflected by the types of projects currently on record as well as the overall regional priority rankings submitted by each planning unit. Many planning units within the region have identified aging and/or failing existing infrastructure as a major obstacle to improving water service quality and have developed projects to combat this issue. Planning units also indicated that addressing the primary need of repair and replacement will also aid in the pursuit of extending services to unserved areas, which represents the secondary need identified most frequently within the BRADD region. Although to a lesser extent, improving security risks and increasing storage capacity were also identified as secondary needs by multiple planning units.

Description and Determination of Planning Units:

Planning units within the BRADD region are determined by county and are comprised of all water systems located within county boundaries. In addition, water systems that operate on a regional level within multiple counties are included in each planning unit in which they operate. Water planning units within the BRADD region: Allen, Barren, Butler, Edmonson, Hart, Logan, Metcalfe, Monroe, Simpson, and Warren.

Barren River Area Development District
Project Ranking Methodology

The Barren River Water Management Council utilizes the following criteria for the prioritization of water and wastewater projects on a regional scale. The criteria has been adapted from previous versions used by the BRADD combined with examples from other ADDs resulting in a 5 tiered ranking criteria to determine a numerical point value for each project. This process provides for increased collaboration on a local level to increase awareness on the impacts (locally and regionally) of proposed projects.

County Planning Unit Councils meet at least once locally to discuss and rank potential projects. These meetings are hosted by the County Judge/Executive with each local utility, mayor and other officials invited to attend. All proposed projects are reviewed by the council and given a numerical score based on a five tiered ranking criteria including: (1. Project Type 2.Complicance with Enforcement Action 3. Funding Status 4. Project Status and 5. County Ranking). Due to the diverse composition of each planning unit, a wide variety of interests are represented and therefore collaboration and compromise are key factors throughout the ranking process. This also provides for an increased level of understanding regarding the needs of planning unit as a whole and ensures that projects providing the most benefit (both locally and regionally) receive priority.

After all Planning Unit Council meetings have been completed, a summary tabulation of project scores is created and the Area Water Management Council meets to vote and finalize the regional ranking priorities. The top five scoring projects for each county are selected for ranking, resulting in a total of 50 ranked projects each for both water and wastewater. In addition, the top 10 overall projects are comprised of those projects identified as the #1 overall priority for each county (as indicated by each planning unit during regional ranking meetings). In this way each county is assured to have one project appear in the top 10 regional ranking, thus ensuring equal opportunity throughout the region. After the top 10 the projects are ranked based on overall score. The following criteria are used to score projects:

Drinking Water Ranking Criteria

I. Project Type

A. Elimination of a Public Water System (PWS) through a merger = 25 points
B. Elimination of water treatment plant through an interconnection = 23 points
C. Rehabilitation and or replacement of aging infrastructure = 20 points
D. Construction of a supplemental potable/raw water supply = 17 points
E. Construction of a new water treatment plant or expansion = 15 points
F. Construction of a new water storage tank = 10 point

G. Economic Development
- 100+ jobs created or maintained - 20 points
- 75-99 jobs created or maintained - 19 points
- 50-74 jobs created or maintained - 18 points
- 20-49 jobs created or maintained - 15 points
- 10-19 jobs created or maintained - 10 points
- less than 10 jobs created or maintained - 5 points

H. Extension of Service to Unserved Households
- 9+ households per mile - 20 points
- 7-8 households per mile - 19 points
- 5-6 households per mile - 18 points
- 3-4 households per mile - 15 points
- 1-2 households per mile - 10 points

I. Underserved Customers

80-100+ households per mile - 20 points
60-80 households per mile - 19 points
40-60 households per mile - 18 points
20-40 households per mile - 15 points
0-20 households per mile - 10 points

II. Compliance with Enforcement Action (Receive points in either A or B)

A. Does the project address correction of a documented health threat? = 10 Points
B. Is the project necessary to achieve full or partial compliance with a court order, agreed order, or a judicial or administrative consent decree? = 5 Points

III. Funding Status (Receive points in either A, B, or C)

A. Funds committed for 50-99% of total project cost = 10 points
B. Funds committed for 1-49% of total project cost = 5 points
C. No funds committed for project = 0 points

IV. Project Status (Can receive points in multiple categories)

A. All necessary approvals obtained to start construction (including rights-of-way) = 20 points
B. Engineering plans & specs submitted to DOW = 15 points
C. Preliminary engineering report complete = 10 points
D. Estimated engineer's budget complete = 5 points

V. County Ranking (Receive points in either A, B, C, or D)

A. Number one ranked project = 24 points
B. Number two ranked project =18 points
C. Number three ranked project = 14 points
D. Number four ranked project = 10 points
E. Number five ranked project = 8 Points

Project Rankings For Barren River Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21171045	Monroe County Water District - New Regional Water Treatment Plant and Water System Improvements	3-5 Years	Partially Funded	$12,412,000	Monroe	1	1
WX21169032	Edmonton - Water Storage Tank Renovations/SCADA System - Phase II	3-5 Years	Not Funded	$800,000	Metcalfe	2	1
WX21061027	Edmonson County Water District - Edmonson and Hart Extensions #1	3-5 Years	Not Funded	$977,075	Edmonson	3	1
WX21141025	Russellville Water Project 2	0-2 Years	Not Funded	$933,830	Logan	4	1
WX21009032	Glasgow Water Improvement - 20 Inch Transmission Line to Haywood	3-5 Years	Not Funded	$1,600,000	Barren	5	1
WX21213034	SCWD- Macedonia Road Fire Protection	3-5 Years	Not Funded	$120,000	Simpson	6	1
WX21031042	Morgantown - Water Plant Improvements	3-5 Years	Not Funded	$500,000	Butler	7	1
WX21099033	Bonnieville - Asbestos Line Replacement	3-5 Years	Not Funded	$1,000,000	Hart	8	1
WX21003001	Holland Road New Pump Station Project	0-2 Years	Not Funded	$1,334,180	Allen	9	1
WX21227063	BGMU - WKU Pump Station Emergency Generator	0-2 Years	Not Funded	$125,000	Warren	10	1
WX21169025	Edmonton - Joe Fields and Lone Star Line Replacement	3-5 Years	Not Funded	$150,000	Metcalfe	11	2
WX21213029	City of Franklin - Morgantown Rd Water Line	3-5 Years	Not Funded	$336,000	Simpson	12	2
WX21009033	Glasgow Water Improvement - 20 Inch Transmission Line Haywood to Grandview Ave	3-5 Years	Not Funded	$1,750,000	Barren	13	2
WX21061020	Edmonson County Water District - Edmonson and Hart Extensions #2	3-5 Years	Not Funded	$1,061,585	Edmonson	14	2
WX21171013	Tompkinsville Downtown Water Line Replacement	3-5 Years	Not Funded	$500,000	Monroe	15	2
WX21227076	BGMU - Water Treatment Plant - Alternate Disinfection Process	3-5 Years	Not Funded	$4,424,000	Warren	16	2
WX21141004	Adairville - Water System Improvements / Upgrades	0-2 Years	Over Funded	$616,441	Logan	17	2
WX21031045	BCWS - Hwy 231 Water Line Replacement, Phase 2	3-5 Years	Not Funded	$170,000	Butler	18	2
WX21099024	Horse Cave - Water Line Improvements	3-5 Years	Not Funded	$950,000	Hart	19	2
WX21003014	City of Scottsville - Maysville Rd Tank Painting and Old Tank Demolition	3-5 Years	Not Funded	$350,000	Allen	20	2
WX21099029	GRVWD - Water Treatment Plant Expansion	0-2 Years	Not Funded	$12,000,000	Hart	21	3
WX21213042	SCWD - Rural Fire Protection Project A	3-5 Years	Not Funded	$803,000	Simpson	22	3
WX21141020	City of Lewisburg - Radio Read Meter Purchase	0-2 Years	Fully Funded	$220,000	Logan	23	3
WX21003003	White Plains Tank Painting	3-5 Years	Not Funded	$350,000	Allen	24	3
WX21171037	Fountain Run Water District #1 - Repaint/Rehab Existing Tank	3-5 Years	Not Funded	$123,000	Monroe	25	3
WX21227028	WCWD - Greenwood Pump Station #2	3-5 Years	Not Funded	$275,000	Warren	26	3
WX21061005	Edmonson County Water Improvement - Nolin State Park	3-5 Years	Not Funded	$176,000	Edmonson	27	3
WX21009030	Caveland Environmental - Blair Road	3-5 Years	Not Funded	$198,000	Barren	28	3
WX21031039	Morgantown - Water Tank	0-2 Years	Fully Funded	$200,000	Butler	29	3
WX21169029	City of Edmonton - Water Service to New Bypass	6-10 Years	Not Funded	$2,000,000	Metcalfe	30	3
WX21099035	Edmonson County Water District - Edmonson and Hart Extensions #1	3-5 Years	Not Funded	$977,075	Hart	31	4
WX21213028	City of Franklin - West Cedar St. Water Line	0-2 Years	Not Funded	$495,975	Simpson	32	4
WX21031046	BCWS - Pump Station Standby Power System	0-2 Years	Not Funded	$90,000	Butler	33	4
WX21009035	Caveland Environmental - Cave City Water Line Replacement	3-5 Years	Not Funded	$600,000	Barren	34	4

Project Rankings For Barren River Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21227074	BGMU - Water Treatment Plant - Caustic Soda	3-5 Years	Not Funded	$1,141,000	Warren	35	4
WX21003012	City of Scottsville - WTP Emergency Generator Project	3-5 Years	Not Funded	$500,000	Allen	36	4
WX21141054	North Logan Water District - Radio Read Meter Conversion	0-2 Years	Not Funded	$400,000	Logan	37	4
WX21171039	Monroe County Water District Improvements - Water Storage Tanks	3-5 Years	Not Funded	$200,000	Monroe	38	4
WX21169022	Edmonton - A. Smith Rd Extension	3-5 Years	Not Funded	$32,000	Metcalfe	39	4
WX21099038	Quarry Road Water Main Extension	3-5 Years	Not Funded	$333,045	Hart	40	5
WX21031028	BCWS - Jetson Tank Replacement	3-5 Years	Not Funded	$550,000	Butler	41	5
WX21009037	Caveland Environmental - Park City Water Lines #2	3-5 Years	Not Funded	$500,000	Barren	42	5
WX21213023	SCWD - Northeast Transmission Upgrade	0-2 Years	Not Funded	$900,000	Simpson	43	5
WX21227054	WCWD - Glen Lily Area Improvements	6-10 Years	Not Funded	$1,797,000	Warren	44	5
WX21003020	Water Line Extension to Sumitomo Plant	3-5 Years	Not Funded	$654,300	Allen	45	5
			Total Cost:	**$55,625,506**			

Allen County

- 2010 census population of 19,956 (9,307 households) with 98% serviceable.
- Projected 2020 population of 22,366 (change of 2,410).
- Allen County has 593.04 miles of existing water lines.
- 4.00 miles of line extensions proposed in the next 10 years.
- 2.00 miles of line rehabilitation proposed in the next 10 years.
- 4.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $6,032,950.
- Estimated funding needs for projects from 6 to 10 years: $277,000.



Allen County has a 2010 census population count of 19,956 (9,307 households) with a projected 2020 population count of 22,366 (9,171 households). Public water is currently available to approximately 98 percent of the county's households based on 2010 census counts. Over the next ten years approximately 14 serviceable households will be added through the construction of 4.00 miles of water line extensions and approximately 2,153 instances of improved service through the rehabilitation of 2.00 miles of existing water lines and other appurtenances. 4.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Allen County Water District	3	$1,645,000	-	-	-	-	3.00
City of Scottsville	10	$4,302,950	5	2,153	1.00	2.00	1.00
Simpson County Water District	1	$277,000	3	-	2.00	-	-
Warren County Water District	1	$85,000	6	-	1.00	-	-
Totals:	**15**	**$6,309,950**	**14**	**2,153**	**4.00**	**2.00**	**4.00**

Community Drinking Water Systems in Allen County

Note: Serviceability counts are for households within Allen county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0020956	Allen County Water District	Allen	13,515	6,135
KY0020386	Scottsville Water Department	Allen	5,092	2,442
KY0050929	Glasgow Water Company	Barren	132	147
KY0860141	Fountain Run Water District #1	Monroe	275	140
KY1070398	Simpson County Water District	Simpson	297	144
KY1140487	Warren County Water District	Warren	206	83
		Totals:	19,517	9,091

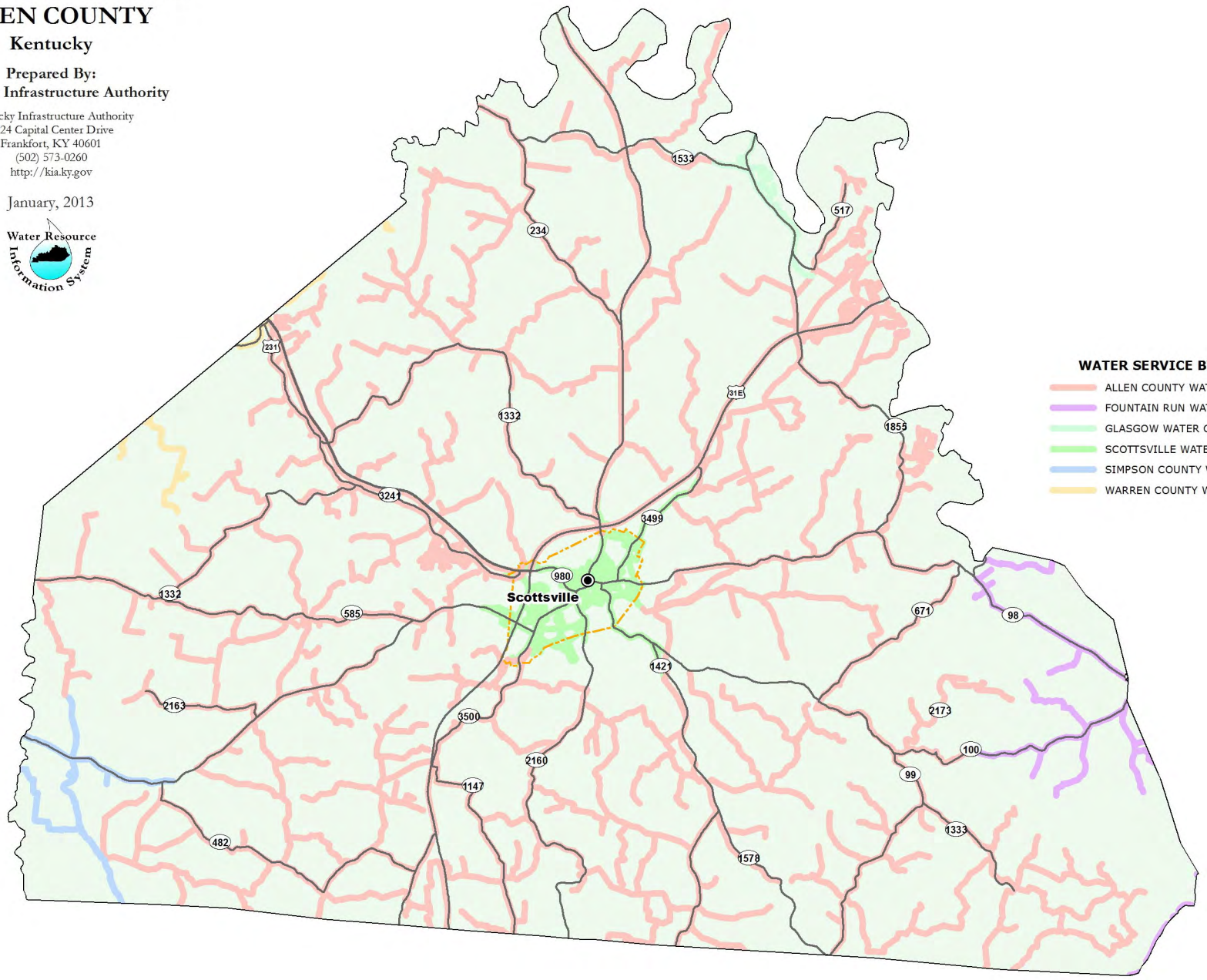
WATER SERVICE AREAS
ALLEN COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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January, 2013

Water Resource Information System



System Summary for Allen County Water District

PWSID	KY0020956	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	12	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	$28.59 per 4,000 gallons.	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 5 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	5,183
Residential Customers	4,870	Total Produced (MG)	-
Commercial Customers	313	Total Purchased (MG)	341.536
Institutional Customers	-	Total Inside Usage (MG)	313.000
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	1	Estimated Pct. Water Loss	8%

Total Distribution System Line Length = 468.17 miles (Distribution: 446.70 miles, Transmission: 21.47 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Allen County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21003018	ACWD - Hwy 231 Transmission Main	3-5 Years	Not Funded	$1,120,000	Allen		
WX21003016	ACWD - Emergency Generators	3-5 Years	Not Funded	$300,000	Allen		
WX21003017	ACWD - Johnson Loop Pump Station	0-2 Years	Not Funded	$225,000	Allen		

System Summary for Scottsville Water Department

PWSID	KY0020386	Treats Water	Yes, 1 plant with total capacity of 1.512 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	4	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$27.44 per 4,000 gallons.	Storage Capacity	Yes, 3 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	$27.44 per 4,000 gallons.	Total Connections	2,280
Residential Customers	2,075	Total Produced (MG)	292.300
Commercial Customers	238	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	232.008
Industrial Customers	19	Total Wholesale Sold (MG)	-
Wholesale Customers	1	Estimated Pct. Water Loss	21%
Total Distribution System Line Length = 80.21 miles (Distribution: 66.47 miles, Transmission: 13.74 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Scottsville Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21003001	Holland Road New Pump Station Project	0-2 Years	Not Funded	$1,334,180	Allen	9	1
WX21003014	City of Scottsville - Maysville Rd Tank Painting and Old Tank Demolition	3-5 Years	Not Funded	$350,000	Allen	20	2
WX21003003	White Plains Tank Painting	3-5 Years	Not Funded	$350,000	Allen	24	3
WX21003012	City of Scottsville - WTP Emergency Generator Project	3-5 Years	Not Funded	$500,000	Allen	36	4
WX21003020	Water Line Extension to Sumitomo Plant	3-5 Years	Not Funded	$654,300	Allen	45	5
WX21003015	City of Scottsville - Old Hartsville Road Water Pump Replacement	3-5 Years	Not Funded	$500,000	Allen		
WX21003005	Camp Couragous Waterline & Tank	0-2 Years	Not Funded	$300,000	Allen		
WX21003002	KY 980 Water System Improvements	0-2 Years	Not Funded	$224,125	Allen		
WX21003013	City of Scottsville - WTP Improvements	3-5 Years	Not Funded	$50,000	Allen		
WX21003019	City of Scottsville - Higgins Convenient Store Infrastructure Improvements Project	0-2 Years	Not Funded	$40,345	Allen		

Barren County

- 2010 census population of 42,173 (19,188 households) with 100% serviceable.
- Projected 2020 population of 46,361 (change of 4,188).
- Barren County has 1,020.48 miles of existing water lines.
- There are no line extensions proposed in the next 10 years.
- 10.00 miles of line rehabilitation proposed in the next 10 years.
- 14.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $12,608,000.
- There are no projects planned from 6 to 10 years.



Barren County has a 2010 census population count of 42,173 (19,188 households) with a projected 2020 population count of 46,361 (19,245 households). Public water is currently available to approximately 100 percent of the county's households based on 2010 census counts. Over the next ten years approximately 15 serviceable households will be added through the construction of 0.00 miles of water line extensions and approximately 5,593 instances of improved service through the rehabilitation of 10.00 miles of existing water lines and other appurtenances. 14.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Caveland Environmental Authority	7	$6,098,000	15	5,151	-	5.00	6.00
Glasgow Water and Sewer Commission	8	$5,810,000	-	442	-	5.00	8.00
Hart County Fiscal Court	1	$700,000	-	-	-	-	-
Totals:	**16**	**$12,608,000**	**15**	**5,593**	**-**	**10.00**	**14.00**

Community Drinking Water Systems in Barren County

Note: Serviceability counts are for households within Barren county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0050490	Cave City Water System	Barren	2,610	1,289
KY0050344	Caveland Environmental Authority	Barren	589	281
KY0050929	Glasgow Water Company	Barren	36,464	16,505
KY0500166	Green River Valley Water District	Hart	2,161	956
KY0850115	Edmonton Water Works	Metcalfe	30	12
KY0860141	Fountain Run Water District #1	Monroe	89	52
		Totals:	41,943	19,095

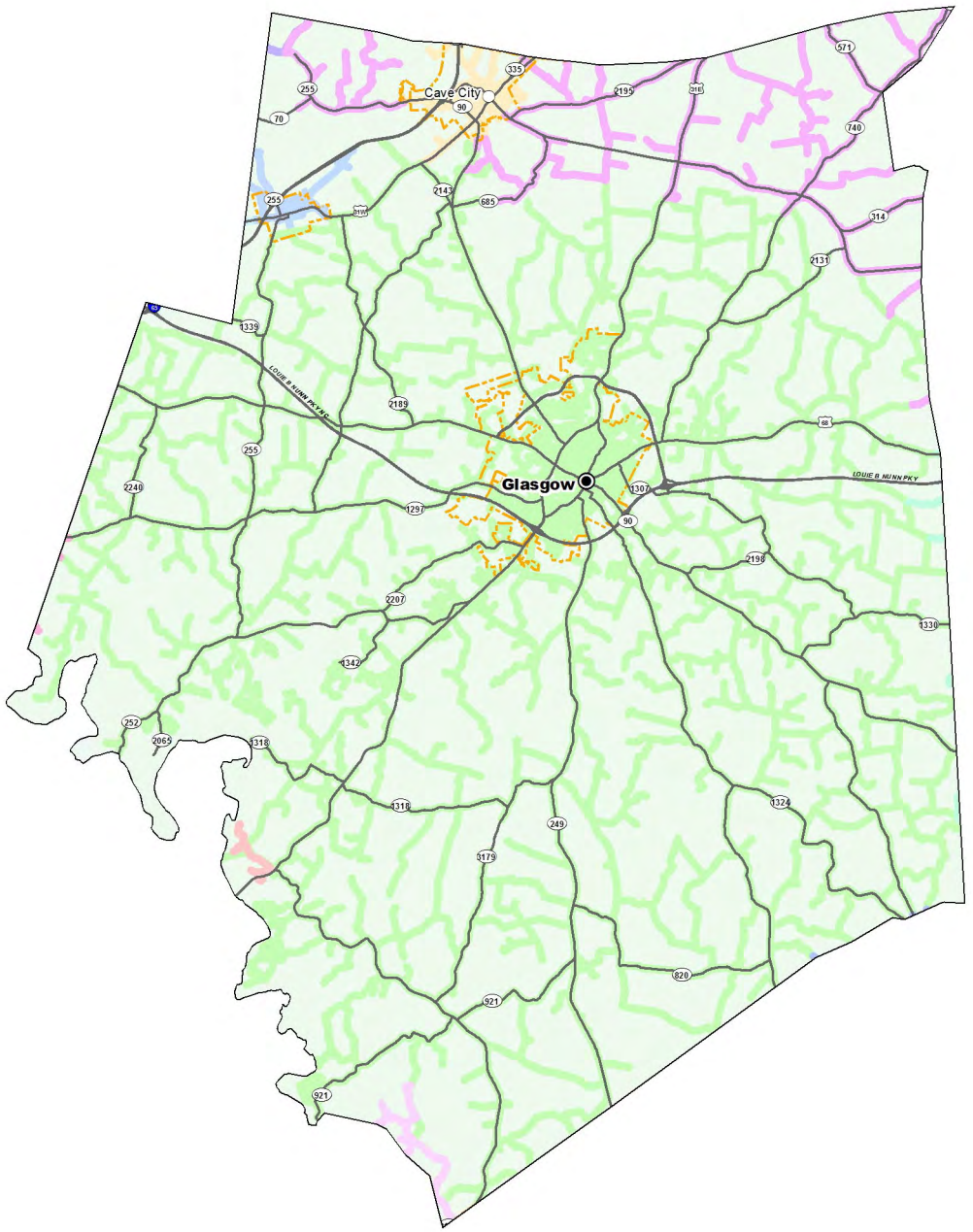
WATER SERVICE AREAS
BARREN COUNTY
Kentucky

Prepared By:
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January, 2013

Water Resource Information System



WATER SERVICE BY OWNER

- BARREN RIVER STATE RESORT PARK
- CAVE CITY WATER SYSTEM
- CAVELAND ENVIRONMENTAL AUTHORITY
- EDMONSON COUNTY WATER DISTRICT
- EDMONTON WATER WORKS
- FOUNTAIN RUN WATER DISTRICT #1
- GLASGOW WATER COMPANY
- GREEN RIVER VALLEY WATER DISTRICT
- MAMMOTH CAVE
- MONROE COUNTY WATER DISTRICT
- WARREN COUNTY WATER DISTRICT

System Summary for Cave City Water System

PWSID	KY0050490	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	16	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$24.96 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	$24.96 per 4,000 gallons.	Total Connections	1,299
Residential Customers	1,249	Total Produced (MG)	-
Commercial Customers	50	Total Purchased (MG)	136.454
Institutional Customers	-	Total Inside Usage (MG)	95.850
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	30%
Total Distribution System Line Length = 33.50 miles (Distribution: 33.50 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Cave City Water System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21009039	CEA - Cave City Water Tank & Line Work	0-2 Years	Not Funded	$2,200,000	Barren		

System Summary for Caveland Environmental Authority

PWSID	KY0050344	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Joint Sewer Agency	Groundwater Source	No
Employees	13	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$21.93 per 4,000 gallons.	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	292
Residential Customers	283	Total Produced (MG)	-
Commercial Customers	9	Total Purchased (MG)	32.246
Institutional Customers	-	Total Inside Usage (MG)	41.009
Industrial Customers	1	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	-27%

Total Distribution System Line Length = 13.49 miles (Distribution: 13.49 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Caveland Environmental Authority

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21099029	GRVWD - Water Treatment Plant Expansion	0-2 Years	Not Funded	$12,000,000	Hart	21	3
WX21009030	Caveland Environmental - Blair Road	3-5 Years	Not Funded	$198,000	Barren	28	3
WX21009035	Caveland Environmental - Cave City Water Line Replacement	3-5 Years	Not Funded	$600,000	Barren	34	4
WX21009037	Caveland Environmental - Park City Water Lines #2	3-5 Years	Not Funded	$500,000	Barren	42	5
WX21009034	Caveland Environmental - Cave City Water Lines	0-2 Years	Not Funded	$1,500,000	Barren		
WX21009036	Caveland Environmental - Park City Water Line #1	0-2 Years	Not Funded	$700,000	Barren		
WX21009023	Caveland Environmental Authority - Water Tank	0-2 Years	Not Funded	$400,000	Barren		
WX21009011	Glasgow Water Improvement	0-2 Years	Not Funded	$180,000	Barren		

System Summary for Glasgow Water Company

PWSID	KY0050929	Treats Water	Yes, 2 plants with total capacity of 14.520 MGD.
System Type	Community	Surface Source	Yes, 2 sources.
Owner Type	Municipal Utility Board or Commission	Groundwater Source	No
Employees	45	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	Yes, to 7 purchasers.
Inside Mun. Cost	$14.64 per 4,000 gallons.	Storage Capacity	Yes, 8 tanks with total capacity of 4.000 MG.
Outside Mun. Cost	$19.81 per 4,000 gallons.	Total Connections	17,612
Residential Customers	16,380	Total Produced (MG)	2,701.000
Commercial Customers	1,141	Total Purchased (MG)	0.840
Institutional Customers	-	Total Inside Usage (MG)	1,451.322
Industrial Customers	85	Total Wholesale Sold (MG)	663.058
Wholesale Customers	7	Estimated Pct. Water Loss	22%

Total Distribution System Line Length = 883.57 miles (Distribution: 883.40 miles, Transmission: 0.16 miles).

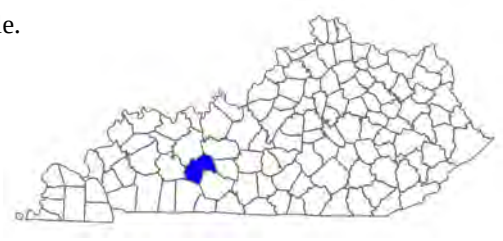
MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Glasgow Water Company

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21009032	Glasgow Water Improvement - 20 Inch Transmission Line to Haywood	3-5 Years	Not Funded	$1,600,000	Barren	5	1
WX21009033	Glasgow Water Improvement - 20 Inch Transmission Line Haywood to Grandview Ave	3-5 Years	Not Funded	$1,750,000	Barren	13	2
WX21009031	Glasgow Water Improvement - 1 Million Gallon Tank-Grandview	0-2 Years	Not Funded	$1,750,000	Barren		
WX21009010	Glasgow Water Improvement	0-2 Years	Not Funded	$230,000	Barren		
WX21009028	Southside Line Improvement - Glasgow	0-2 Years	Not Funded	$120,000	Barren		
WX21009029	Westside Line Improvement - Glasgow	0-2 Years	Not Funded	$105,000	Barren		
WX21009009	Glasgow Water Improvement	0-2 Years	Not Funded	$75,000	Barren		

Butler County

- 2010 census population of 12,690 (5,877 households) with 96% serviceable.
- Projected 2020 population of 12,544 (change of -146).
- Butler County has 499.05 miles of existing water lines.
- 12.00 miles of line extensions proposed in the next 10 years.
- 8.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $7,019,150.
- Estimated funding needs for projects from 6 to 10 years: $868,000.



Butler County has a 2010 census population count of 12,690 (5,877 households) with a projected 2020 population count of 12,544 (5,178 households). Public water is currently available to approximately 96 percent of the county's households based on 2010 census counts. Over the next ten years approximately 14 serviceable households will be added through the construction of 12.00 miles of water line extensions and approximately 48 instances of improved service through the rehabilitation of 8.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Butler County Water System Inc	11	$5,433,000	12	48	11.00	8.00	-
City of Morgantown	1	$500,000	-	-	-	-	-
Edmonson County Water District	2	$1,954,150	2	-	1.00	-	-
Totals:	**14**	**$7,887,150**	**14**	**48**	**12.00**	**8.00**	**-**

Community Drinking Water Systems in Butler County

Note: Serviceability counts are for households within Butler county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0160052	Butler County Water System	Butler	9,989	4,616
KY0160294	Morgantown Utilities	Butler	2,202	1,015
KY1140487	Warren County Water District	Warren	38	18
		Totals:	12,229	5,649

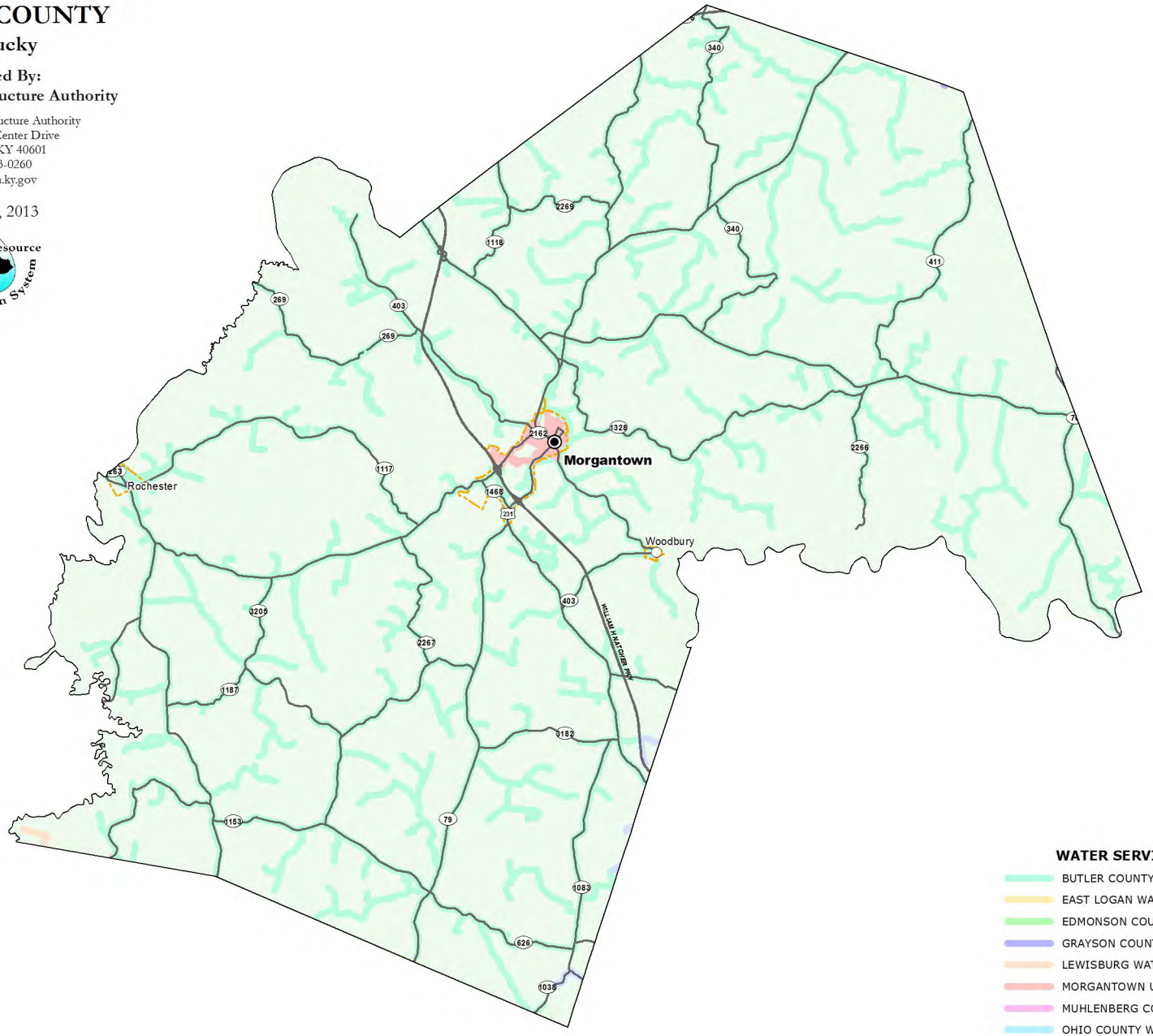
WATER SERVICE AREAS
BUTLER COUNTY
Kentucky

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January, 2013

Water Resource Information System



WATER SERVICE BY OWNER

- BUTLER COUNTY WATER SYSTEM
- EAST LOGAN WATER DISTRICT
- EDMONSON COUNTY WATER DISTRICT
- GRAYSON COUNTY WATER DISTRICT
- LEWISBURG WATER WORKS
- MORGANTOWN UTILITIES
- MUHLENBERG COUNTY WATER DISTRICT #1
- OHIO COUNTY WATER DISTRICT
- WARREN COUNTY WATER DISTRICT

System Summary for Butler County Water System

PWSID	KY0160052	Treats Water	Yes, 1 plant with total capacity of 1.512 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Water Association	Groundwater Source	No
Employees	5	Wholesale Purchaser	Yes, from 4 providers.
Non-Municipal Cost	$26.78 per 4,000 gallons.	Wholesale Provider	Yes, to 5 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 15 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	-	Total Connections	4,781
Residential Customers	4,488	Total Produced (MG)	318.700
Commercial Customers	291	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	262.870
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	5	Estimated Pct. Water Loss	18%

Total Distribution System Line Length = 505.36 miles (Distribution: 504.25 miles, Transmission: 1.11 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Butler County Water System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21183038	Rochester Dam Regional Water Commission	0-2 Years	Not Funded	$3,300,000	Ohio	3	1
WX21031045	BCWS - Hwy 231 Water Line Replacement, Phase 2	3-5 Years	Not Funded	$170,000	Butler	18	2
WX21031046	BCWS - Pump Station Standby Power System	0-2 Years	Not Funded	$90,000	Butler	33	4
WX21031028	BCWS - Jetson Tank Replacement	3-5 Years	Not Funded	$550,000	Butler	41	5
WX21183023	Ohio Co. Water Distrct/Butler Co. Water District Interconnection	0-2 Years	Not Funded	$400,000	Ohio		9
WX21031043	BCWS - WTP Capacity Upgrades, Phase 3	3-5 Years	Not Funded	$1,480,000	Butler		
WX21031025	BCWS - Small Diameter Water Line Replacement, Phase 2	3-5 Years	Not Funded	$635,000	Butler		
WX21031026	BCWS - Rochester Tank Replacement	3-5 Years	Not Funded	$500,000	Butler		
WX21031029	BCWS - Hwy 70 Tank Replacement	3-5 Years	Not Funded	$500,000	Butler		
WX21031047	BCWS - WTP Capacity Upgrades, Phase 4	3-5 Years	Not Funded	$470,000	Butler		
WX21031034	BCWS - Source Interconnect Water Lines	6-10 Years	Not Funded	$468,000	Butler		
WX21031021	BCWS - Rochester Road Water Line Upgrade	6-10 Years	Not Funded	$400,000	Butler		
WX21031032	BCWS - Gardner Ln. Water Line Extension	3-5 Years	Not Funded	$170,000	Butler		
WX21031027	BCWS - Muhlenburg Tank Transmission Line and Fire Protection	3-5 Years	Not Funded	$165,000	Butler		

System Summary for Morgantown Utilities

PWSID	KY0160294	Treats Water	Yes, 1 plant with total capacity of 0.972 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Municipal Utility Board or Commission	Groundwater Source	No
Employees	6	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$32.64 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	875
Residential Customers	799	Total Produced (MG)	80.000
Commercial Customers	74	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	63.983
Industrial Customers	2	Total Wholesale Sold (MG)	-
Wholesale Customers	1	Estimated Pct. Water Loss	20%
Total Distribution System Line Length = 15.95 miles (Distribution: 15.83 miles, Transmission: 0.11 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Morgantown Utilities

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21183038	Rochester Dam Regional Water Commission	0-2 Years	Not Funded	$3,300,000	Ohio	3	1
WX21031042	Morgantown - Water Plant Improvements	3-5 Years	Not Funded	$500,000	Butler	7	1

Edmonson County

- 2010 census population of 12,161 (6,467 households) with 99% serviceable.
- Projected 2020 population of 12,628 (change of 467).
- Edmonson County has 430.00 miles of existing water lines.
- 11.00 miles of line extensions proposed in the next 10 years.
- 2.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $4,675,203.
- There are no projects planned from 6 to 10 years.



Edmonson County has a 2010 census population count of 12,161 (6,467 households) with a projected 2020 population count of 12,628 (5,283 households). Public water is currently available to approximately 99 percent of the county's households based on 2010 census counts. Over the next ten years approximately 256 serviceable households will be added through the construction of 11.00 miles of water line extensions and approximately 1,260 instances of improved service through the rehabilitation of 2.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Brownsville	1	$240,000	-	-	-	-	-
Edmonson County Water District	6	$4,435,203	256	1,260	11.00	2.00	-
Totals:	**7**	**$4,675,203**	**256**	**1,260**	**11.00**	**2.00**	**-**

Community Drinking Water Systems in Edmonson County

Note: Serviceability counts are for households within Edmonson county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0310706	Brownsville Municipal Water System	Edmonson	692	349
KY0310114	Edmonson County Water District	Edmonson	11,068	5,927
KY0050929	Glasgow Water Company	Barren	112	42
KY1140487	Warren County Water District	Warren	90	39
		Totals:	11,962	6,357

WATER SERVICE AREAS
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Kentucky

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January, 2013

Water Resource Information System



WATER SERVICE BY OWNER

- BROWNSVILLE MUNICIPAL WATER SYSTEM
- BUTLER COUNTY WATER SYSTEM
- CAVELAND ENVIRONMENTAL AUTHORITY
- EDMONSON COUNTY WATER DISTRICT
- GLASGOW WATER COMPANY
- MAMMOTH CAVE
- NOLIN LAKE STATE PARK
- WARREN COUNTY WATER DISTRICT

System Summary for Brownsville Municipal Water System

PWSID	KY0310706	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	2	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$23.16 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	480
Residential Customers	389	Total Produced (MG)	-
Commercial Customers	86	Total Purchased (MG)	34.152
Institutional Customers	-	Total Inside Usage (MG)	24.168
Industrial Customers	5	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	29%

Total Distribution System Line Length = 9.15 miles (Distribution: 9.15 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Brownsville Municipal Water System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21061026	City of Brownsville - Brownsville Water Tank Rehabilitation	3-5 Years	Not Funded	$240,000	Edmonson		

System Summary for Edmonson County Water District

PWSID	KY0310114	Treats Water	Yes, 2 plants with total capacity of 3.940 MGD.
System Type	Community	Surface Source	Yes, 2 sources.
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	21	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$23.25 per 4,000 gallons.	Wholesale Provider	Yes, to 4 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 18 tanks with total capacity of 4.000 MG.
Outside Mun. Cost	-	Total Connections	10,009
Residential Customers	10,003	Total Produced (MG)	572.033
Commercial Customers	-	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	439.312
Industrial Customers	2	Total Wholesale Sold (MG)	34.152
Wholesale Customers	4	Estimated Pct. Water Loss	17%
Total Distribution System Line Length = 669.01 miles (Distribution: 668.77 miles, Transmission: 0.24 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Edmonson County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21061027	Edmonson County Water District - Edmonson and Hart Extensions #1	3-5 Years	Not Funded	$977,075	Edmonson	3	1
WX21061020	Edmonson County Water District - Edmonson and Hart Extensions #2	3-5 Years	Not Funded	$1,061,585	Edmonson	14	2
WX21061005	Edmonson County Water Improvement - Nolin State Park	3-5 Years	Not Funded	$176,000	Edmonson	27	3
WX21099035	Edmonson County Water District - Edmonson and Hart Extensions #1	3-5 Years	Not Funded	$977,075	Hart	31	4
WX21061006	Edmonson County Water District: 2012 Emergency Needs Project	0-2 Years	Not Funded	$895,000	Edmonson		
WX21085022	Edmonson County Water District Wax Extensions	3-5 Years	Not Funded	$348,468	Grayson		

System Summary for Mammoth Cave

PWSID	KY0310940	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Federal Agency	Groundwater Source	No
Employees	16	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$28.66 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	7
Residential Customers	1	Total Produced (MG)	-
Commercial Customers	54	Total Purchased (MG)	11.797
Institutional Customers	-	Total Inside Usage (MG)	8.360
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	29%

Total Distribution System Line Length = 14.16 miles (Distribution: 14.16 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Mammoth Cave

Hart County

- 2010 census population of 18,199 (8,559 households) with 99% serviceable.
- Projected 2020 population of 18,690 (change of 491).
- Hart County has 655.95 miles of existing water lines.
- 13.00 miles of line extensions proposed in the next 10 years.
- 10.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $23,886,783.
- There are no projects planned from 6 to 10 years.



Hart County has a 2010 census population count of 18,199 (8,559 households) with a projected 2020 population count of 18,690 (7,604 households). Public water is currently available to approximately 99 percent of the county's households based on 2010 census counts. Over the next ten years approximately 32 serviceable households will be added through the construction of 13.00 miles of water line extensions and approximately 57,758 instances of improved service through the rehabilitation of 10.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Caveland Environmental Authority	1	$198,000	-	13	-	1.00	-
City of Bonnieville	2	$1,805,000	20	310	-	6.00	-
City of Horse Cave	1	$950,000	-	106	-	2.00	-
City of Munfordville	1	$132,000	-	500	-	-	-
Edmonson County Water District	4	$3,910,735	12	11	13.00	1.00	-
Green River Valley Water District	4	$15,858,003	-	50,000	-	-	-
Hardin County Water District #2	1	$333,045	-	11	-	-	-
Hart County Fiscal Court	1	$700,000	-	6,807	-	-	-
Totals:	**15**	**$23,886,783**	**32**	**57,758**	**13.00**	**10.00**	**-**

Community Drinking Water Systems in Hart County

Note: Serviceability counts are for households within Hart county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0500032	Bonnieville Water District	Hart	444	247
KY0500166	Green River Valley Water District	Hart	9,628	4,278
KY0500476	Horse Cave Water System	Hart	2,285	1,111
KY0500305	Munfordville Water Works	Hart	1,484	757
KY0050490	Cave City Water System	Barren	66	24
KY0310114	Edmonson County Water District	Edmonson	3,325	1,711
KY0470175	Hardin County Water District #2	Hardin	732	318
		Totals:	17,964	8,446

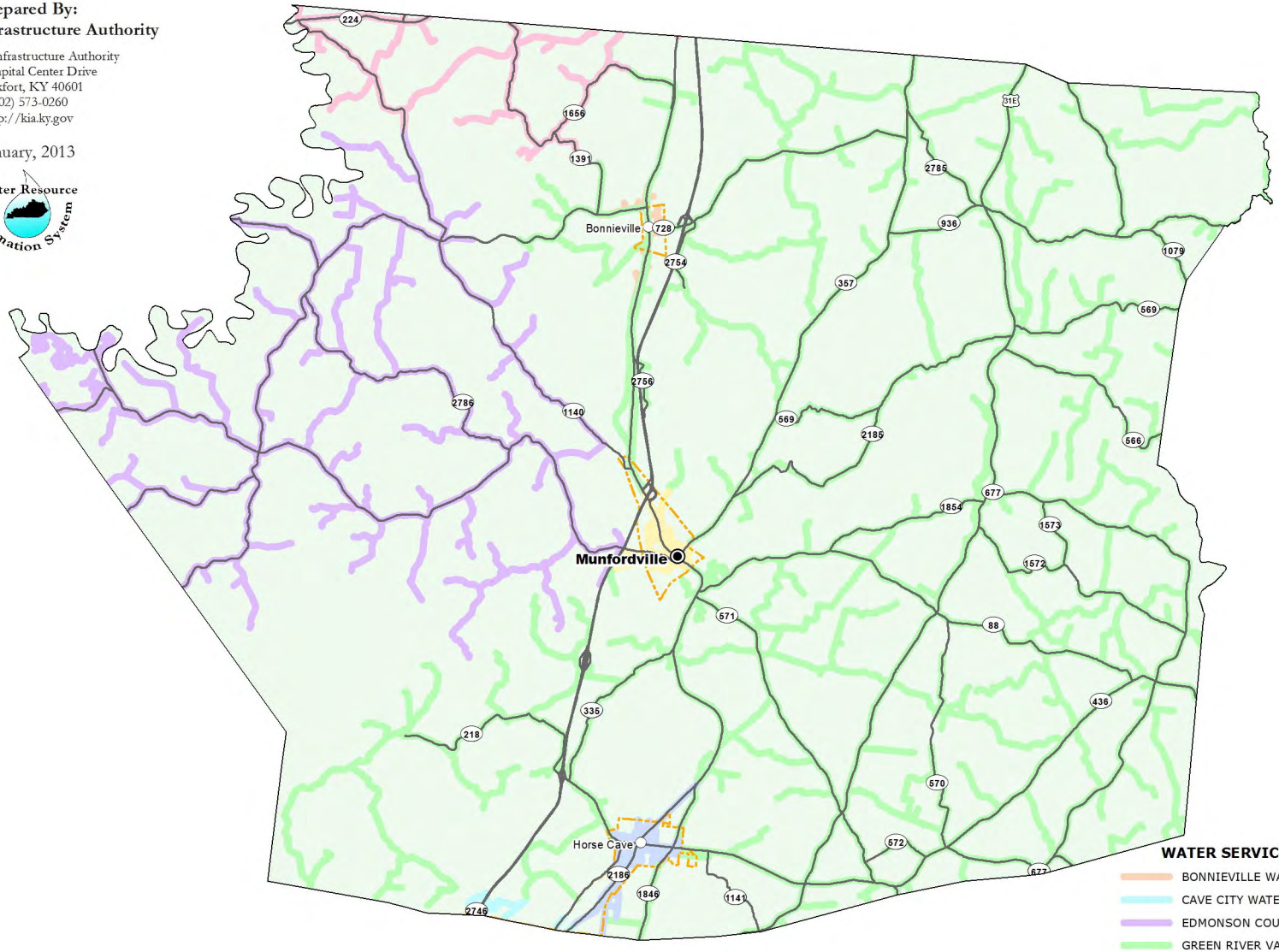
WATER SERVICE AREAS
HART COUNTY
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January, 2013

Water Resource Information System



System Summary for Bonnieville Water District

PWSID	KY0500032	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	2	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$24.87 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	No
Outside Mun. Cost	-	Total Connections	240
Residential Customers	233	Total Produced (MG)	-
Commercial Customers	6	Total Purchased (MG)	14.277
Institutional Customers	-	Total Inside Usage (MG)	12.040
Industrial Customers	1	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	16%

Total Distribution System Line Length = 8.36 miles (Distribution: 8.36 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Bonnieville Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21099033	Bonnieville - Asbestos Line Replacement	3-5 Years	Not Funded	$1,000,000	Hart	8	1
WX21099029	GRVWD - Water Treatment Plant Expansion	0-2 Years	Not Funded	$12,000,000	Hart	21	3
WX21099038	Quarry Road Water Main Extension	3-5 Years	Not Funded	$333,045	Hart	40	5
WX21099025	Bonnieville - Water Line Improvements	3-5 Years	Not Funded	$805,000	Hart		

System Summary for Green River Valley Water District

PWSID	KY0500166	Treats Water	Yes, 1 plant with total capacity of 6.000 MGD.
System Type	Community	Surface Source	Yes, 2 sources.
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	23	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$27.43 per 4,000 gallons.	Wholesale Provider	Yes, to 7 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 13 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	-	Total Connections	6,807
Residential Customers	6,376	Total Produced (MG)	1,423.323
Commercial Customers	424	Total Purchased (MG)	0.235
Institutional Customers	-	Total Inside Usage (MG)	636.851
Industrial Customers	-	Total Wholesale Sold (MG)	606.199
Wholesale Customers	7	Estimated Pct. Water Loss	13%
Total Distribution System Line Length = 724.55 miles (Distribution: 713.20 miles, Transmission: 11.35 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Green River Valley Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21061027	Edmonson County Water District - Edmonson and Hart Extensions #1	3-5 Years	Not Funded	$977,075	Edmonson	3	1
WX21099029	GRVWD - Water Treatment Plant Expansion	0-2 Years	Not Funded	$12,000,000	Hart	21	3
WX21099035	Edmonson County Water District - Edmonson and Hart Extensions #1	3-5 Years	Not Funded	$977,075	Hart	31	4
WX21099031	GRVWD - Electronic Meter Read Upgrade	3-5 Years	Not Funded	$3,546,003	Hart		
WX21061006	Edmonson County Water District: 2012 Emergency Needs Project	0-2 Years	Not Funded	$895,000	Edmonson		
WX21099028	Green River Valley Water District - 2010 Generators Purchase	0-2 Years	Not Funded	$700,000	Hart		
WX21099032	GRVWD - Radio Telemetry Upgrades	3-5 Years	Not Funded	$162,000	Hart		
WX21099030	GRVWD - Property Purchase to Expand WTP	3-5 Years	Not Funded	$150,000	Hart		

System Summary for Horse Cave Water System

PWSID	KY0500476	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	1	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$33.40 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	931
Residential Customers	796	Total Produced (MG)	-
Commercial Customers	129	Total Purchased (MG)	230.649
Institutional Customers	1	Total Inside Usage (MG)	240.944
Industrial Customers	5	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	-4%

Total Distribution System Line Length = 34.31 miles (Distribution: 32.78 miles, Transmission: 1.53 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Horse Cave Water System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21099024	Horse Cave - Water Line Improvements	3-5 Years	Not Funded	$950,000	Hart	19	2
WX21099029	GRVWD - Water Treatment Plant Expansion	0-2 Years	Not Funded	$12,000,000	Hart	21	3

System Summary for Munfordville Water Works

PWSID	KY0500305	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	3	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$17.00 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	653
Residential Customers	550	Total Produced (MG)	-
Commercial Customers	101	Total Purchased (MG)	93.600
Institutional Customers	-	Total Inside Usage (MG)	47.964
Industrial Customers	2	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	49%

Total Distribution System Line Length = 16.48 miles (Distribution: 16.48 miles, Transmission: 0.00 miles).

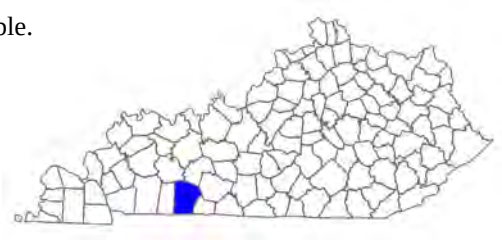
MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Munfordville Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21099029	GRVWD - Water Treatment Plant Expansion	0-2 Years	Not Funded	$12,000,000	Hart	21	3
WX21099036	City of Munfordville Water System Analysis	0-2 Years	Not Funded	$132,000	Hart		

Logan County

- 2010 census population of 26,835 (12,339 households) with 98% serviceable.
- Projected 2020 population of 27,382 (change of 547).
- Logan County has 837.50 miles of existing water lines.
- 7.00 miles of line extensions proposed in the next 10 years.
- 10.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $7,376,502.
- There are no projects planned from 6 to 10 years.



Logan County has a 2010 census population count of 26,835 (12,339 households) with a projected 2020 population count of 27,382 (11,301 households). Public water is currently available to approximately 98 percent of the county's households based on 2010 census counts. Over the next ten years approximately 2 serviceable households will be added through the construction of 7.00 miles of water line extensions and approximately 219 instances of improved service through the rehabilitation of 10.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Adairville	3	$1,025,000	-	11	1.00	1.00	-
City of Russellville	3	$2,081,502	2	111	6.00	3.00	-
East Logan Water District	1	$3,070,000	-	23	-	1.00	-
North Logan Water District	2	$1,200,000	-	74	-	5.00	-
Totals:	**9**	**$7,376,502**	**2**	**219**	**7.00**	**10.00**	**-**

Community Drinking Water Systems in Logan County

Note: Serviceability counts are for households within Logan county only.

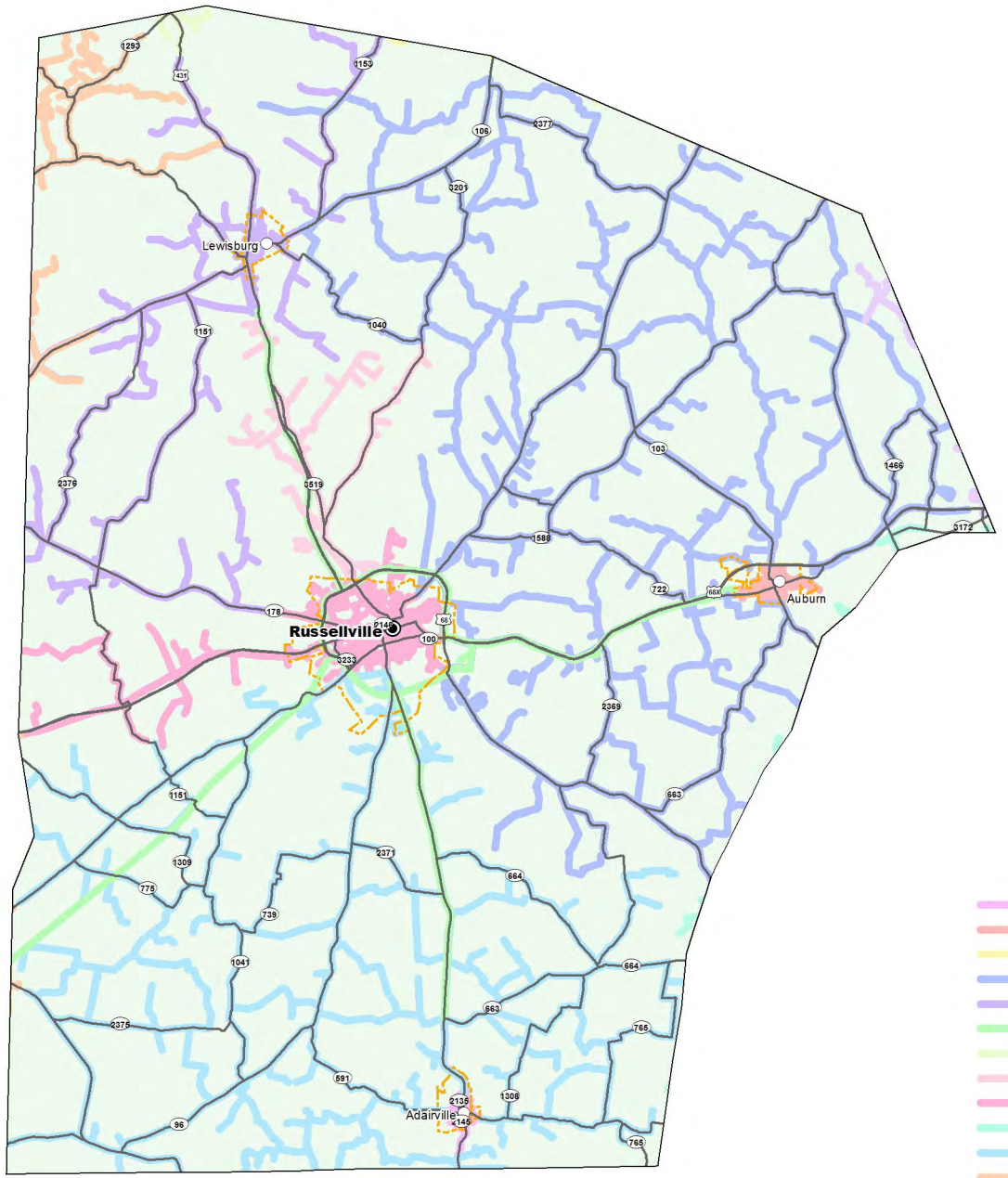
PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0710001	Adairville Water Works	Logan	916	441
KY0710012	Auburn Water Department	Logan	1,379	647
KY0710951	East Logan Water District	Logan	7,783	3,197
KY0710247	Lewisburg Water Works	Logan	2,488	1,199
KY0710318	North Logan Water District	Logan	1,400	620
KY0710378	Russellville Municipal Water System	Logan	7,166	3,442
KY0710707	South Logan Water Association	Logan	4,103	1,815
KY0890302	Muhlenberg County Water District #1	Muhlenberg	157	68
KY1070398	Simpson County Water District	Simpson	94	36
KY1100944	Todd County Water District	Todd	696	571
KY1140487	Warren County Water District	Warren	242	98
		Totals:	26,424	12,134

WATER SERVICE AREAS
LOGAN COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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January, 2013



WATER SERVICE BY OWNER

- ADAIRVILLE WATER WORKS
- AUBURN WATER DEPARTMENT
- BUTLER COUNTY WATER SYSTEM
- EAST LOGAN WATER DISTRICT
- LEWISBURG WATER WORKS
- LOGAN/TODD REGIONAL WATER COMMISSION
- MUHLENBERG COUNTY WATER DISTRICT #1
- NORTH LOGAN WATER DISTRICT
- RUSSELLVILLE MUNICIPAL WATER SYSTEM
- SIMPSON COUNTY WATER DISTRICT
- SOUTH LOGAN WATER ASSOCIATION
- TODD COUNTY WATER DISTRICT
- WARREN COUNTY WATER DISTRICT

System Summary for Adairville Water Works

PWSID	KY0710001	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	5	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$42.16 per 4,000 gallons.	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	382
Residential Customers	352	Total Produced (MG)	-
Commercial Customers	29	Total Purchased (MG)	26.869
Institutional Customers	-	Total Inside Usage (MG)	22.823
Industrial Customers	1	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	15%

Total Distribution System Line Length = 11.45 miles (Distribution: 11.45 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Adairville Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21141003	Adairville - 200,000 Gallon Water Tank Construction	0-2 Years	Not Funded	$525,000	Logan		
WX21141002	Adairville - Water Distribution Line to Industrial Park	3-5 Years	Not Funded	$475,000	Logan		
WX21141001	Adairville - Water Line Ext to F. Hills Subdivision	0-2 Years	Not Funded	$25,000	Logan		

System Summary for Auburn Water Department

PWSID	KY0710012	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	2	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$18.71 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	684
Residential Customers	633	Total Produced (MG)	-
Commercial Customers	47	Total Purchased (MG)	44.142
Institutional Customers	-	Total Inside Usage (MG)	38.342
Industrial Customers	4	Total Wholesale Sold (MG)	-
Wholesale Customers	1	Estimated Pct. Water Loss	13%
Total Distribution System Line Length = 15.05 miles (Distribution: 14.97 miles, Transmission: 0.08 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Auburn Water Department

System Summary for East Logan Water District

PWSID	KY0710951	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	5	Wholesale Purchaser	Yes, from 4 providers.
Non-Municipal Cost	$45.51 per 4,000 gallons.	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	2,960
Residential Customers	2,928	Total Produced (MG)	-
Commercial Customers	30	Total Purchased (MG)	176.632
Institutional Customers	-	Total Inside Usage (MG)	155.633
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	2	Estimated Pct. Water Loss	12%

Total Distribution System Line Length = 274.23 miles (Distribution: 274.23 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for East Logan Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21141056	East Logan Water District - Line Improvement Upgrades	3-5 Years	Not Funded	$3,070,000	Logan		

System Summary for Lewisburg Water Works

PWSID	KY0710247	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	2	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$31.47 per 4,000 gallons.	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$46.32 per 4,000 gallons.	Total Connections	1,024
Residential Customers	993	Total Produced (MG)	-
Commercial Customers	38	Total Purchased (MG)	53.242
Institutional Customers	-	Total Inside Usage (MG)	68.479
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	-29%
Total Distribution System Line Length = 92.96 miles (Distribution: 92.96 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Lewisburg Water Works

System Summary for North Logan Water District

PWSID	KY0710318	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	1	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$44.48 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	559
Residential Customers	546	Total Produced (MG)	-
Commercial Customers	13	Total Purchased (MG)	54.509
Institutional Customers	-	Total Inside Usage (MG)	56.036
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	-3%

Total Distribution System Line Length = 35.39 miles (Distribution: 35.39 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for North Logan Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21141025	Russellville Water Project 2	0-2 Years	Not Funded	$933,830	Logan	4	1
WX21141054	North Logan Water District - Radio Read Meter Conversion	0-2 Years	Not Funded	$400,000	Logan	37	4
WX21141053	North Logan Water District - Phase 3 System Upgrades	3-5 Years	Not Funded	$800,000	Logan		
WX21141027	Russellville Water Project #4	3-5 Years	Not Funded	$647,672	Logan		
WX21141046	City of Russellville - Newtown 6 Inch Waterline Extension	0-2 Years	Not Funded	$500,000	Logan		

System Summary for Russellville Municipal Water System

PWSID	KY0710378	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	99	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$47.61 per 4,000 gallons.	Storage Capacity	Yes, 3 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	$47.61 per 4,000 gallons.	Total Connections	3,221
Residential Customers	2,586	Total Produced (MG)	-
Commercial Customers	498	Total Purchased (MG)	234.368
Institutional Customers	127	Total Inside Usage (MG)	166.640
Industrial Customers	10	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	29%
Total Distribution System Line Length = 89.02 miles (Distribution: 89.02 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Russellville Municipal Water System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21141025	Russellville Water Project 2	0-2 Years	Not Funded	$933,830	Logan	4	1

System Summary for South Logan Water Association

PWSID	KY0710707	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water Association	Groundwater Source	No
Employees	5	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$38.56 per 4,000 gallons.	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	1,652
Residential Customers	1,598	Total Produced (MG)	-
Commercial Customers	54	Total Purchased (MG)	148.112
Institutional Customers	-	Total Inside Usage (MG)	110.077
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	1	Estimated Pct. Water Loss	26%
Total Distribution System Line Length = 224.94 miles (Distribution: 224.94 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for South Logan Water Association

Metcalfe County

- 2010 census population of 10,099 (4,681 households) with 97% serviceable.
- Projected 2020 population of 10,329 (change of 230).
- Metcalfe County has 433.70 miles of existing water lines.
- 1.00 miles of line extensions proposed in the next 10 years.
- 1.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $2,491,000.
- Estimated funding needs for projects from 6 to 10 years: $2,000,000.



Metcalfe County has a 2010 census population count of 10,099 (4,681 households) with a projected 2020 population count of 10,329 (4,306 households). Public water is currently available to approximately 97 percent of the county's households based on 2010 census counts. Over the next ten years approximately 24 serviceable households will be added through the construction of 1.00 miles of water line extensions and approximately 4 instances of improved service through the rehabilitation of 1.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Edmonton	4	$2,982,000	23	4	1.00	1.00	-
Cumberland County Water District	1	$1,509,000	1	-	-	-	-
Totals:	**5**	**$4,491,000**	**24**	**4**	**1.00**	**1.00**	**-**

Community Drinking Water Systems in Metcalfe County

Note: Serviceability counts are for households within Metcalfe county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0850115	Edmonton Water Works	Metcalfe	7,155	3,299
KY0290271	Cumberland County Water District	Cumberland	67	31
KY0440167	Green-Taylor Water District	Green	472	247
KY0500166	Green River Valley Water District	Hart	2,022	920
KY0860150	Monroe County Water District	Monroe	56	24
		Totals:	9,772	4,521

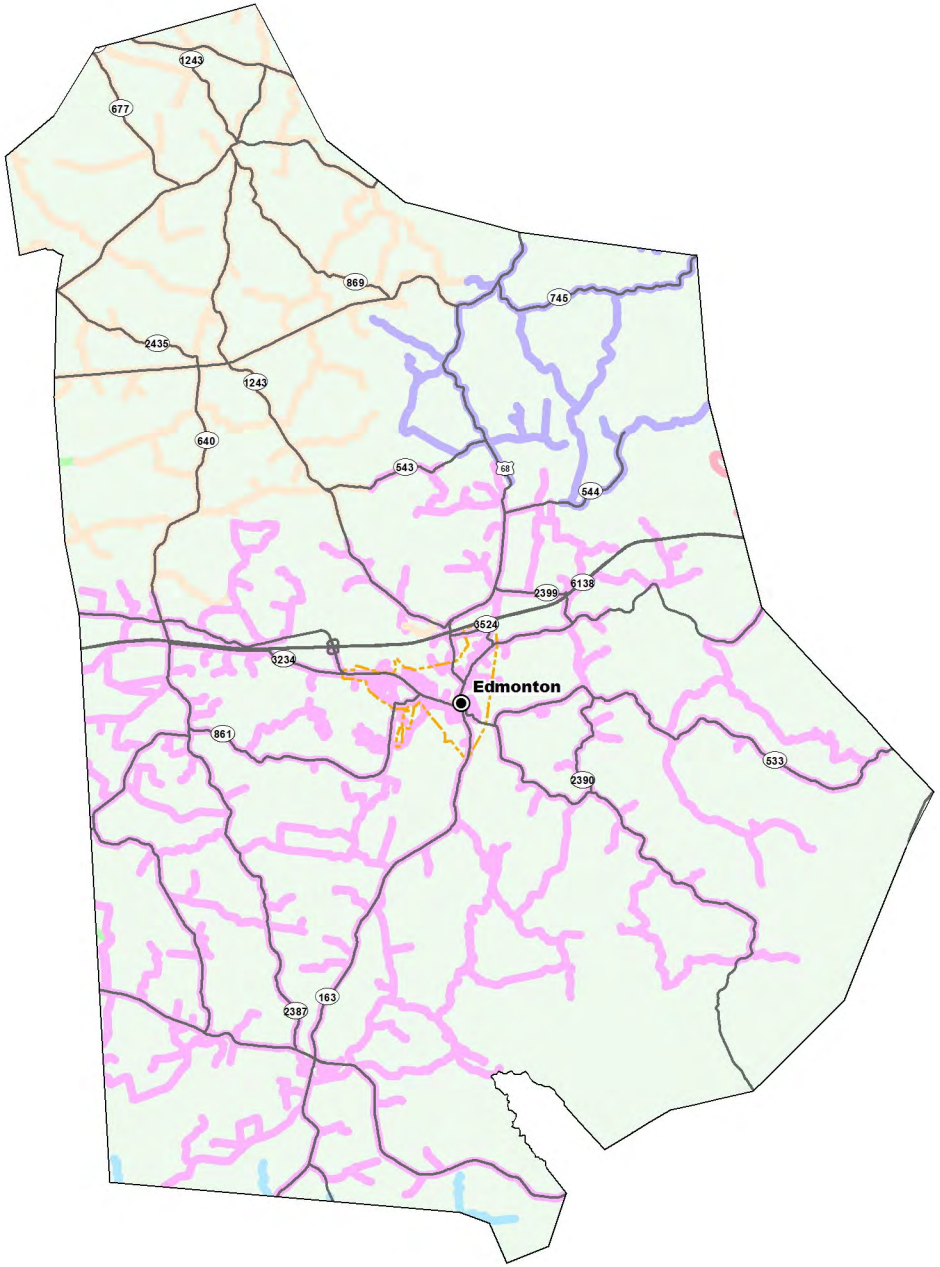
WATER SERVICE AREAS
METCALFE COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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January, 2013

Water Resource Information System



WATER SERVICE BY OWNER

- COLUMBIA/ADAIR UTILITIES DISTRICT
- EDMONTON WATER WORKS
- GLASGOW WATER COMPANY
- GREEN RIVER VALLEY WATER DISTRICT
- GREEN-TAYLOR WATER DISTRICT
- MONROE COUNTY WATER DISTRICT

System Summary for Edmonton Water Works

PWSID	KY0850115	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	13	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$29.15 per 4,000 gallons.	Storage Capacity	Yes, 7 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	$38.84 per 4,000 gallons.	Total Connections	3,031
Residential Customers	2,783	Total Produced (MG)	-
Commercial Customers	241	Total Purchased (MG)	251.732
Institutional Customers	-	Total Inside Usage (MG)	158.416
Industrial Customers	7	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	37%

Total Distribution System Line Length = 284.74 miles (Distribution: 284.74 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Edmonton Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21171045	Monroe County Water District - New Regional Water Treatment Plant and Water System Improvements	3-5 Years	Partially Funded	$12,412,000	Monroe	1	1
WX21169032	Edmonton - Water Storage Tank Renovations/SCADA System - Phase II	3-5 Years	Not Funded	$800,000	Metcalfe	2	1
WX21169025	Edmonton - Joe Fields and Lone Star Line Replacement	3-5 Years	Not Funded	$150,000	Metcalfe	11	2
WX21169029	City of Edmonton - Water Service to New Bypass	6-10 Years	Not Funded	$2,000,000	Metcalfe	30	3
WX21169022	Edmonton - A. Smith Rd Extension	3-5 Years	Not Funded	$32,000	Metcalfe	39	4

Monroe County

- 2010 census population of 10,963 (5,204 households) with 98% serviceable.
- Projected 2020 population of 10,405 (change of -558).
- Monroe County has 520.52 miles of existing water lines.
- 12.00 miles of line extensions proposed in the next 10 years.
- 21.00 miles of line rehabilitation proposed in the next 10 years.
- 11.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $18,155,000.
- Estimated funding needs for projects from 6 to 10 years: $1,120,200.



Monroe County has a 2010 census population count of 10,963 (5,204 households) with a projected 2020 population count of 10,405 (4,423 households). Public water is currently available to approximately 98 percent of the county's households based on 2010 census counts. Over the next ten years approximately 765 serviceable households will be added through the construction of 12.00 miles of water line extensions and approximately 13,420 instances of improved service through the rehabilitation of 21.00 miles of existing water lines and other appurtenances. 11.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Tompkinsville	3	$4,150,000	-	253	-	3.00	-
Fountain Run Water District #1	5	$618,000	-	2,432	-	2.00	-
Monroe County Water District	6	$14,507,200	765	10,735	12.00	16.00	11.00
Totals:	**14**	**$19,275,200**	**765**	**13,420**	**12.00**	**21.00**	**11.00**

Community Drinking Water Systems in Monroe County

Note: Serviceability counts are for households within Monroe county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0860141	Fountain Run Water District #1	Monroe	518	295
KY0860150	Monroe County Water District	Monroe	7,894	3,652
KY0860426	Tompkinsville Water Works	Monroe	2,270	1,135
		Totals:	10,682	5,082

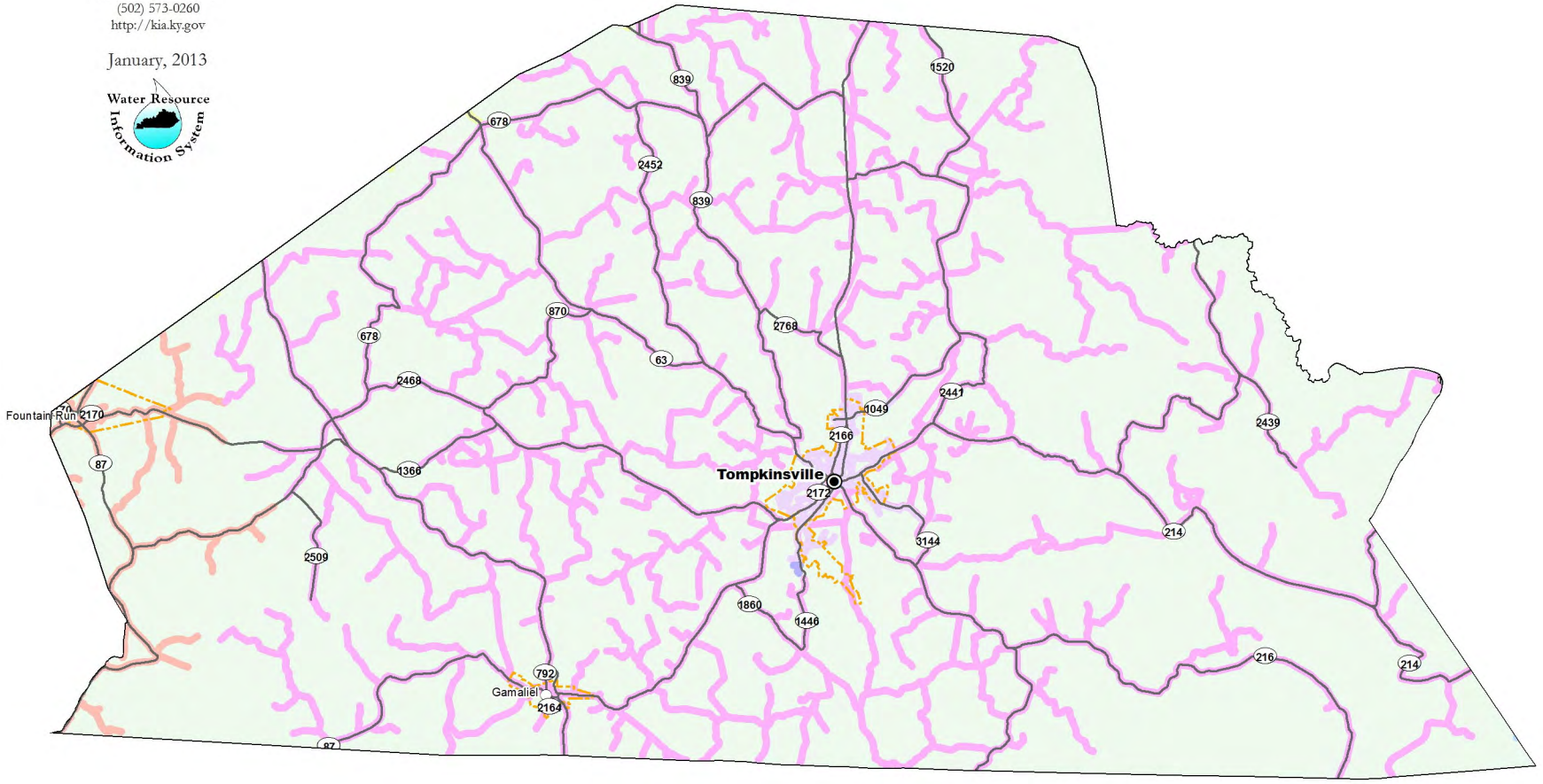
WATER SERVICE AREAS
MONROE COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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1024 Capital Center Drive
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January, 2013

Water Resource Information System



WATER SERVICE BY OWNER

- CUMBERLAND COUNTY WATER DISTRICT
- EDMONTON WATER WORKS
- FOUNTAIN RUN WATER DISTRICT #1
- GLASGOW WATER COMPANY
- MONROE COUNTY WATER DISTRICT
- OLD MULKEY STATE HISTORIC SITE
- TOMPKINSVILLE WATER WORKS

System Summary for Fountain Run Water District #1

PWSID	KY0860141	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	5	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	$28.40 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	523
Residential Customers	454	Total Produced (MG)	-
Commercial Customers	69	Total Purchased (MG)	43.309
Institutional Customers	-	Total Inside Usage (MG)	45.110
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	-4%

Total Distribution System Line Length = 58.84 miles (Distribution: 57.55 miles, Transmission: 1.29 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Fountain Run Water District #1

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21171045	Monroe County Water District - New Regional Water Treatment Plant and Water System Improvements	3-5 Years	Partially Funded	$12,412,000	Monroe	1	1
WX21171037	Fountain Run Water District #1 - Repaint/Rehab Existing Tank	3-5 Years	Not Funded	$123,000	Monroe	25	3
WX21171040	Fountain Run Water District #1- Repair/Replace Water Line In the system	6-10 Years	Not Funded	$215,000	Monroe		
WX21171041	Fountain Run Water District #1 - New Radio Read Metering System & Billing System	6-10 Years	Not Funded	$189,000	Monroe		
WX21171031	Fountain Run Water District #1 Improvements - Purchase of GPS Mapping System	6-10 Years	Not Funded	$50,000	Monroe		
WX21171043	Fountain Run Water District #1 - Fire Hydrant Replacement	6-10 Years	Not Funded	$41,000	Monroe		

System Summary for Monroe County Water District

PWSID	KY0860150	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	9	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$32.55 per 4,000 gallons.	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 7 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	3,437
Residential Customers	3,235	Total Produced (MG)	-
Commercial Customers	200	Total Purchased (MG)	268.000
Institutional Customers	-	Total Inside Usage (MG)	232.331
Industrial Customers	-	Total Wholesale Sold (MG)	0.840
Wholesale Customers	2	Estimated Pct. Water Loss	13%
Total Distribution System Line Length = 474.50 miles (Distribution: 462.88 miles, Transmission: 11.63 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Monroe County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21171045	Monroe County Water District - New Regional Water Treatment Plant and Water System Improvements	3-5 Years	Partially Funded	$12,412,000	Monroe	1	1
WX21171039	Monroe County Water District Improvements - Water Storage Tanks	3-5 Years	Not Funded	$200,000	Monroe	38	4
WX21171011	Monroe County Water Improvement - Water Line Upgrades	6-10 Years	Partially Funded	$625,200	Monroe		
WX21171029	Monroe County Water District Improvements - GPS Mapping System	3-5 Years	Not Funded	$150,000	Monroe		
WX21171024	Monroe County Water District Improvements - Old Mulkey Pump Station	3-5 Years	Not Funded	$40,000	Monroe		

System Summary for Tompkinsville Water Works

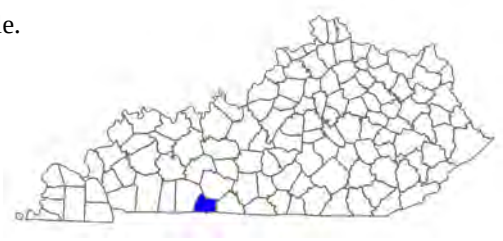
PWSID	KY0860426	Treats Water	Yes, 1 plant with total capacity of 2.500 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	7	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$19.95 per 4,000 gallons.	Storage Capacity	Yes, 4 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	$19.95 per 4,000 gallons.	Total Connections	1,144
Residential Customers	891	Total Produced (MG)	535.455
Commercial Customers	202	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	205.001
Industrial Customers	48	Total Wholesale Sold (MG)	268.000
Wholesale Customers	1	Estimated Pct. Water Loss	12%
Total Distribution System Line Length = 29.95 miles (Distribution: 27.65 miles, Transmission: 2.29 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Tompkinsville Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21171013	Tompkinsville Downtown Water Line Replacement	3-5 Years	Not Funded	$500,000	Monroe	15	2
WX21171015	Tompkinsville Water Treatment Plant Improvement - Basin, Clearwell, Chemical Feed	3-5 Years	Not Funded	$3,500,000	Monroe		
WX21171033	City of Tompkinsville - East Industrial Park Water Improvements	3-5 Years	Not Funded	$150,000	Monroe		

Simpson County



- 2010 census population of 17,327 (7,435 households) with 97% serviceable.
- Projected 2020 population of 18,342 (change of 1,015).
- Simpson County has 468.24 miles of existing water lines.
- 41.00 miles of line extensions proposed in the next 10 years.
- 8.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $7,802,975.
- Estimated funding needs for projects from 6 to 10 years: $1,559,000.

Simpson County has a 2010 census population count of 17,327 (7,435 households) with a projected 2020 population count of 18,342 (7,429 households). Public water is currently available to approximately 97 percent of the county's households based on 2010 census counts. Over the next ten years approximately 25 serviceable households will be added through the construction of 41.00 miles of water line extensions and approximately 2,230 instances of improved service through the rehabilitation of 8.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Franklin	5	$2,387,975	-	611	-	4.00	-
Simpson County Fiscal Court	1	$618,000	3	-	3.00	-	-
Simpson County Water District	11	$6,356,000	22	1,619	38.00	4.00	-
Totals:	**17**	**$9,361,975**	**25**	**2,230**	**41.00**	**8.00**	**-**

Community Drinking Water Systems in Simpson County

Note: Serviceability counts are for households within Simpson county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY1070144	Franklin Water Works	Simpson	10,457	4,592
KY1070398	Simpson County Water District	Simpson	6,218	2,580
		Totals:	16,675	7,172

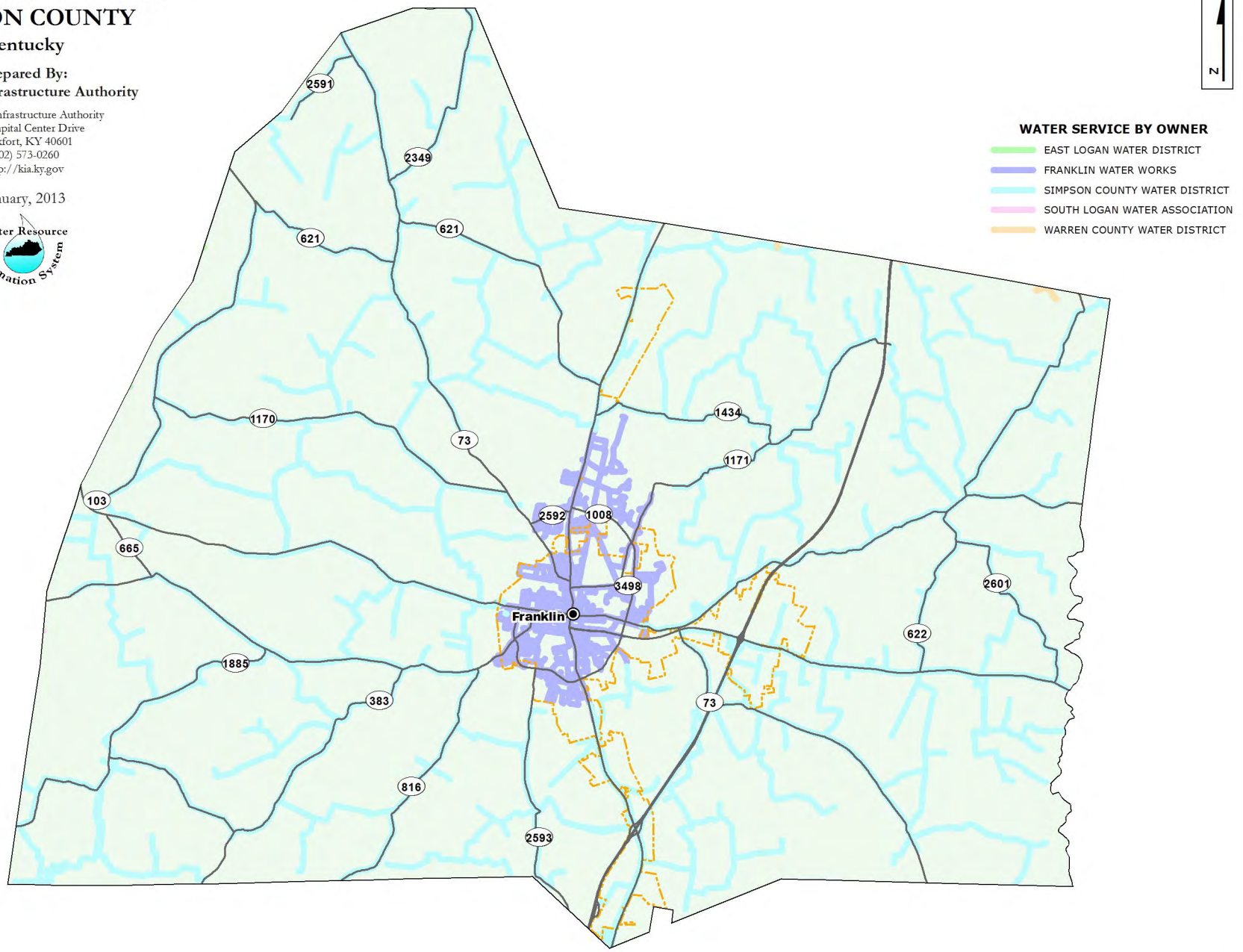
WATER SERVICE AREAS
SIMPSON COUNTY
Kentucky

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January, 2013

Water Resource Information System



System Summary for Franklin Water Works

PWSID	KY1070144	Treats Water	Yes, 1 plant with total capacity of 5.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	11	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$24.64 per 4,000 gallons.	Storage Capacity	Yes, 3 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	$36.92 per 4,000 gallons.	Total Connections	4,257
Residential Customers	3,772	Total Produced (MG)	550.000
Commercial Customers	484	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	472.232
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	1	Estimated Pct. Water Loss	14%

Total Distribution System Line Length = 85.43 miles (Distribution: 78.90 miles, Transmission: 6.53 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Franklin Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21213029	City of Franklin - Morgantown Rd Water Line	3-5 Years	Not Funded	$336,000	Simpson	12	2
WX21213028	City of Franklin - West Cedar St. Water Line	0-2 Years	Not Funded	$495,975	Simpson	32	4
WX21213004	City of Franklin - 2-Inch Galvanized Lines Replacement Project	3-5 Years	Not Funded	$600,000	Simpson		
WX21213033	City of Franklin - Williamsburg Park Pressure Zone	0-2 Years	Not Funded	$485,000	Simpson		
WX21213027	City of Franklin - W. Madison St. Water Line Project	3-5 Years	Not Funded	$471,000	Simpson		

System Summary for Simpson County Water District

PWSID	KY1070398	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	2	Wholesale Purchaser	Yes, from 4 providers.
Non-Municipal Cost	$26.91 per 4,000 gallons.	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 7 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	-	Total Connections	3,379
Residential Customers	3,040	Total Produced (MG)	-
Commercial Customers	338	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	307.678
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	1	Estimated Pct. Water Loss	

Total Distribution System Line Length = 400.91 miles (Distribution: 336.00 miles, Transmission: 64.90 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Simpson County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21213034	SCWD- Macedonia Road Fire Protection	3-5 Years	Not Funded	$120,000	Simpson	6	1
WX21213042	SCWD - Rural Fire Protection Project A	3-5 Years	Not Funded	$803,000	Simpson	22	3
WX21213023	SCWD - Northeast Transmission Upgrade	0-2 Years	Not Funded	$900,000	Simpson	43	5
WX21213017	SCWD - Neosheo Tank	6-10 Years	Not Funded	$1,100,000	Simpson		
WX21213043	SCWD - Rural Fire Protection Project B	0-2 Years	Not Funded	$826,000	Simpson		
WX21213022	SCWD - Hwy 31W South Transmission Upgrade	3-5 Years	Not Funded	$795,000	Simpson		
WX21213045	SCWD - Rural Fire Protection Project D	0-2 Years	Not Funded	$647,000	Simpson		
WX21213040	City of Franklin - Interconnects Water Line	0-2 Years	Not Funded	$618,000	Simpson		
WX21213044	SCWD - Rural Fire Protection Project C	0-2 Years	Not Funded	$506,000	Simpson		
WX21213003	SCWD - Hwy 100E Water Line Extension	6-10 Years	Not Funded	$277,000	Simpson		
WX21213041	SCWD - Rural Distribution Upgrades	3-5 Years	Not Funded	$200,000	Simpson		
WX21213035	SCWD- Lake Springs Road Water Line Extension	6-10 Years	Not Funded	$182,000	Simpson		

Warren County

- 2010 census population of 113,792 (47,223 households) with 95% serviceable.
- Projected 2020 population of 137,250 (change of 23,458).
- Warren County has 1,271.74 miles of existing water lines.
- 12.00 miles of line extensions proposed in the next 10 years.
- 2.00 miles of line rehabilitation proposed in the next 10 years.
- 3.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $30,425,193.
- Estimated funding needs for projects from 6 to 10 years: $7,264,000.



Warren County has a 2010 census population count of 113,792 (47,223 households) with a projected 2020 population count of 137,250 (54,299 households). Public water is currently available to approximately 95 percent of the county's households based on 2010 census counts. Over the next ten years approximately 51 serviceable households will be added through the construction of 12.00 miles of water line extensions and approximately 20,700 instances of improved service through the rehabilitation of 2.00 miles of existing water lines and other appurtenances. 3.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Bowling Green Municipal Utilities	20	$28,317,193	-	8,700	-	2.00	-
Warren County Water District	13	$9,372,000	51	12,000	12.00	-	3.00
Totals:	**33**	**$37,689,193**	**51**	**20,700**	**12.00**	**2.00**	**3.00**

Community Drinking Water Systems in Warren County

Note: Serviceability counts are for households within Warren county only.

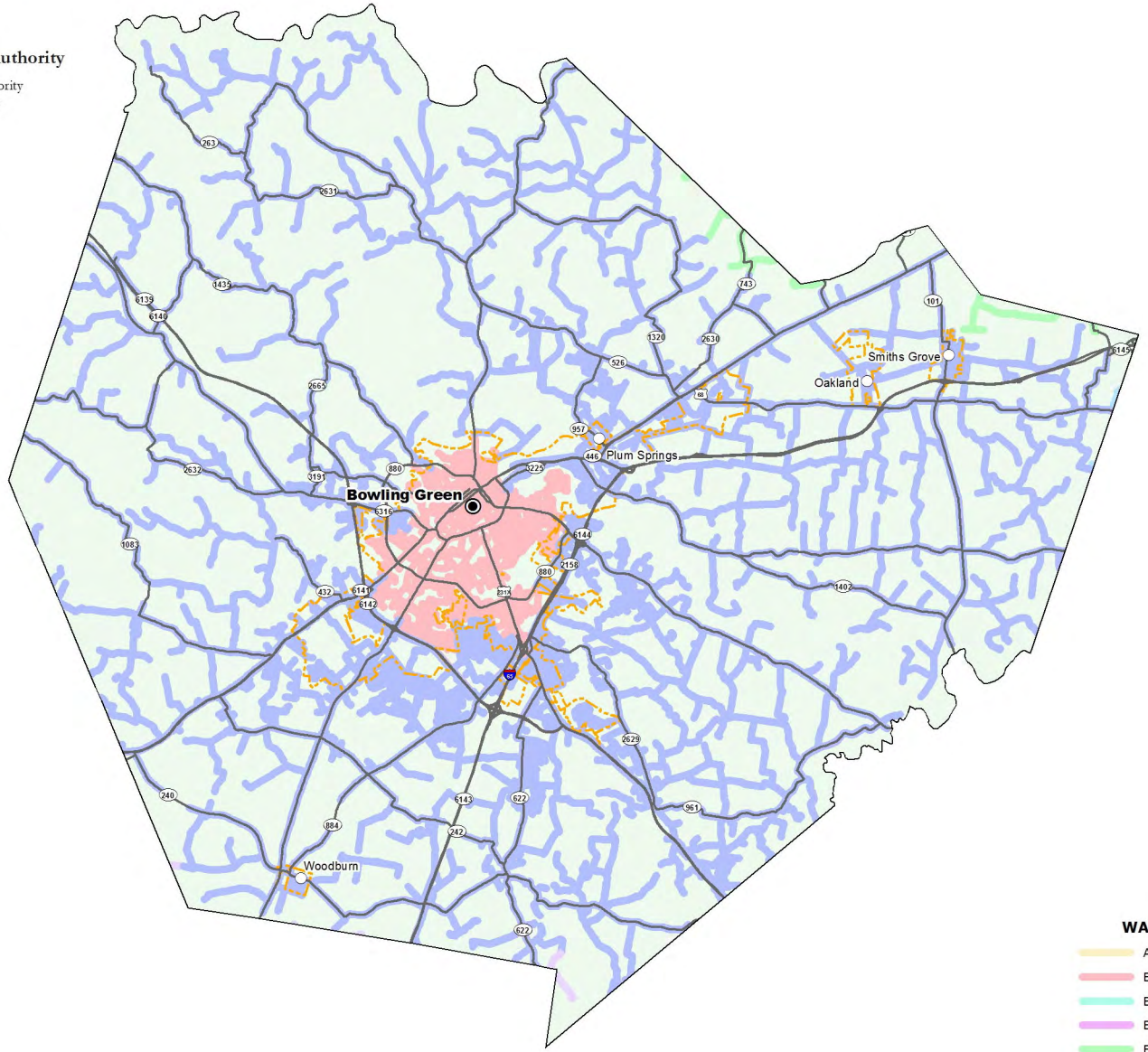
PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY1140038	Bowling Green Municipal Utilities	Warren	46,878	19,759
KY1140487	Warren County Water District	Warren	60,736	24,803
KY0310114	Edmonson County Water District	Edmonson	302	124
KY1070398	Simpson County Water District	Simpson	84	35
		Totals:	108,000	44,721

WATER SERVICE AREAS
WARREN COUNTY
Kentucky

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January, 2013



System Summary for Bowling Green Municipal Utilities

PWSID	KY1140038	Treats Water	Yes, 1 plant with total capacity of 30.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Municipal Utility Board or Commission	Groundwater Source	No
Employees	31	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$16.78 per 4,000 gallons.	Storage Capacity	Yes, 6 tanks with total capacity of 10.000 MG.
Outside Mun. Cost	$23.51 per 4,000 gallons.	Total Connections	19,075
Residential Customers	14,744	Total Produced (MG)	5,647.200
Commercial Customers	3,000	Total Purchased (MG)	-
Institutional Customers	10	Total Inside Usage (MG)	2,037.009
Industrial Customers	300	Total Wholesale Sold (MG)	2,587.400
Wholesale Customers	1	Estimated Pct. Water Loss	18%
Total Distribution System Line Length = 174.03 miles (Distribution: 173.94 miles, Transmission: 0.09 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Bowling Green Municipal Utilities

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21227063	BGMU - WKU Pump Station Emergency Generator	0-2 Years	Not Funded	$125,000	Warren	10	1
WX21227076	BGMU - Water Treatment Plant - Alternate Disinfection Process	3-5 Years	Not Funded	$4,424,000	Warren	16	2
WX21227074	BGMU - Water Treatment Plant - Caustic Soda	3-5 Years	Not Funded	$1,141,000	Warren	35	4
WX21227044	BGMU - New Southcentral 2.0 Million Gallon Tank (Highland Tank)	3-5 Years	Not Funded	$12,000,000	Warren		
WX21227084	5MG Reservoir Hill Tank Upgrade Project	3-5 Years	Not Funded	$1,640,000	Warren		
WX21227073	BGMU - Small Water Line Replacement	0-2 Years	Not Funded	$1,253,693	Warren		
WX21227071	BGMU - Water Treatment Plant Filter Valve Replacement	0-2 Years	Not Funded	$1,200,000	Warren		
WX21227012	BGMU - Eliminating Dead End Mains	0-2 Years	Not Funded	$1,000,000	Warren		
WX21227019	BGMU - Replace Old Cast Iron Mains	6-10 Years	Not Funded	$1,000,000	Warren		
WX21227064	BGMU - New High Service Pump	0-2 Years	Not Funded	$600,000	Warren		
WX21227075	BGMU - Water Treatment Plant - Low Service No. 5 Pump Replacement	3-5 Years	Not Funded	$588,500	Warren		
WX21227070	BGMU - Water Treatment Plant Grading and Paving	0-2 Years	Not Funded	$550,000	Warren		
WX21227072	BGMU - Painting Two Elevated Water Tanks	0-2 Years	Not Funded	$500,000	Warren		
WX21227067	BGMU - Sedimentation Basin Cover 1 & 2	0-2 Years	Not Funded	$500,000	Warren		
WX21227065	BGMU - Water Treatment Plant Security System Upgrade	0-2 Years	Not Funded	$500,000	Warren		
WX21227050	BGMU - Alternative Water Study	3-5 Years	Partially Funded	$400,000	Warren		
WX21227069	BGMU - Water Treatment Structural Repairs	0-2 Years	Not Funded	$400,000	Warren		
WX21227045	BGMU - Install Check Valve System In 3 Tanks	0-2 Years	Not Funded	$225,000	Warren		

System Summary for Warren County Water District

PWSID	KY1140487	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	48	Wholesale Purchaser	Yes, from 3 providers.
Non-Municipal Cost	$16.70 per 4,000 gallons.	Wholesale Provider	Yes, to 3 purchasers.
Inside Mun. Cost	$17.98 per 4,000 gallons.	Storage Capacity	Yes, 28 tanks with total capacity of 11.000 MG.
Outside Mun. Cost	-	Total Connections	26,618
Residential Customers	24,735	Total Produced (MG)	-
Commercial Customers	1,880	Total Purchased (MG)	2,587.400
Institutional Customers	-	Total Inside Usage (MG)	2,412.465
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	3	Estimated Pct. Water Loss	7%

Total Distribution System Line Length = 1,103.20 miles (Distribution: 1,093.97 miles, Transmission: 9.23 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Warren County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21227028	WCWD - Greenwood Pump Station #2	3-5 Years	Not Funded	$275,000	Warren	26	3
WX21227054	WCWD - Glen Lily Area Improvements	6-10 Years	Not Funded	$1,797,000	Warren	44	5
WX21227040	WCWD - Old Scottsville Area Improvements	6-10 Years	Not Funded	$1,660,000	Warren		
WX21227053	WCWD - Morgantown Road Area Improvements	0-2 Years	Not Funded	$1,114,000	Warren		
WX21227055	WCWD - Smiths Grove / Little Knob Improvements	3-5 Years	Not Funded	$1,046,000	Warren		
WX21227060	WCWD - Kelly Vance Pump Station Upgrade	6-10 Years	Not Funded	$835,000	Warren		
WX21227080	WCWD - McElwain Pump Station Upgrade	6-10 Years	Not Funded	$835,000	Warren		
WX21227082	WCWD - Three Springs Transmission Improvements	6-10 Years	Not Funded	$729,000	Warren		
WX21227036	WCWD - Barren River Rd. Fire Protection	6-10 Years	Not Funded	$400,000	Warren		
WX21227056	WCWD - Porter Pike Area Improvements, Phase 1	3-5 Years	Not Funded	$327,000	Warren		
WX21227057	WCWD - Richpond Area Improvements, Phase 1	3-5 Years	Not Funded	$261,000	Warren		
WX21227052	WCWD - Trammel Area Water Line Extension	0-2 Years	Not Funded	$85,000	Allen		
WX21227059	WCWD - Tanglewood Pump Station Upgrade	6-10 Years	Not Funded	$8,000	Warren		

Big Sandy Area Development District (BSADD)



- 2010 census population of 154,093 (70,217 households) with 94% serviceable.
- Projected 2020 population of 148,051 (change of -6,042).
- 2,476.57 miles of existing water lines.
- 60.00 miles of line extensions proposed in the next 10 years.
- 35.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $31,689,744.
- Estimated funding needs for projects from 6 to 10 years: $12,371,900.
- Average age of structures: water treatment plants is 42 years; water tanks is 22 years.
- Total number of interconnected systems is 14.
- 57 miles of asbestos concrete pipe currently in use.
- 2,375 miles of water lines less than 15 years old.
- 103 miles of water lines between 15 and 30 years old.
- 35 miles of water lines between 31 and 50 years old.
- 4 miles of water lines between 51 and 70 years old.
- 0 miles of water lines greater than 70 years old.

Big Sandy Area Development District has a 2010 census population count of 154,093 (70,217 households) with a projected 2020 population count of 148,051 (61,704 households). Public water is currently available to approximately 94 percent of the district's households based on 2010 census counts. Over the next ten years approximately 268 serviceable households will be added through the construction of 60.00 miles of water line extensions and approximately 16,321 instances of improved service through the rehabilitation of 35.00 miles of existing water lines and other appurtenances.

County Summary for Big Sandy Area Development District

County Name	2010 Population	2010 Households	2020 Population	2020 Households	Serviceable Households	Percent Serviceable	Planned Cost 0 to 10 Years
Floyd	39,451	18,175	37,153	15,594	17,450	96%	$ 13,527,243
Johnson	23,356	10,624	23,265	9,647	9,759	92%	$ 118,322
Magoffin	13,333	5,950	13,587	5,696	5,769	97%	$ 13,237,132
Martin	12,929	5,164	12,055	4,410	5,085	99%	$ 4,595,060
Pike	65,024	30,304	61,991	26,357	27,582	91%	$ 12,583,887
Totals	**154,093**	**70,217**	**148,051**	**61,704**	**65,645**	**93%**	**$ 44,061,644**

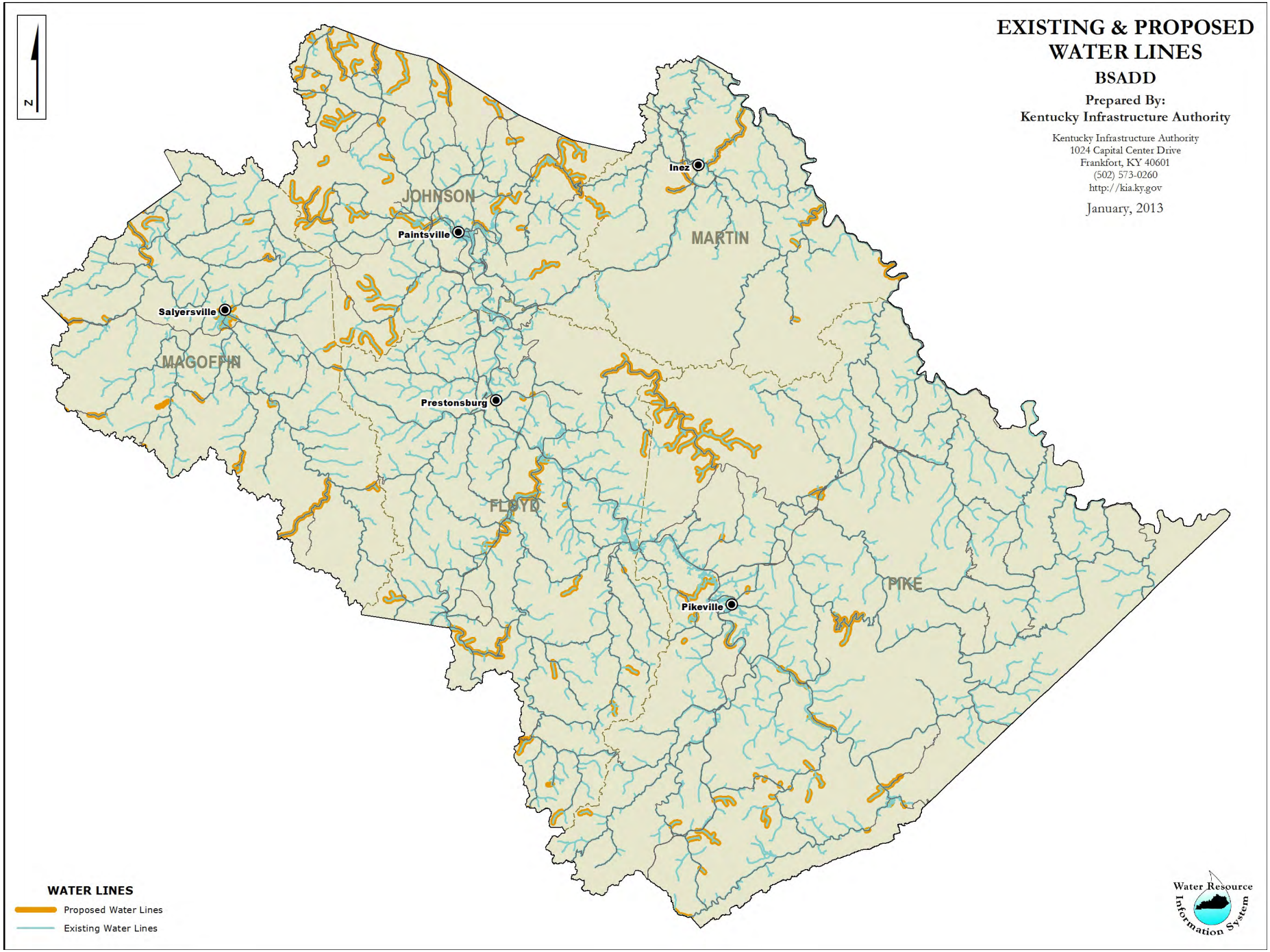
EXISTING & PROPOSED WATER LINES

BSADD

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January, 2013



Community Water Systems in Big Sandy Area Development District County

Note: Serviceable counts include households outside the area development district.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0360272	Martin Water Works	Floyd	651	375
KY0360358	Prestonsburg City's Utilities Commission	Floyd	18,053	8,216
KY0360026	Southern Water & Sewer District	Floyd	19,900	9,160
KY0360463	Wheelwright Utilities Commission	Floyd	956	399
KY0580340	Paintsville Utility Commission	Johnson	20,961	9,553
KY0770525	Magoffin County Water District	Magoffin	10,840	4,839
KY0770566	Salyersville Water Works	Magoffin	2,259	1,006
KY0800273	Martin County Water District	Martin	11,849	5,106
KY0980120	Elkhorn City Water Department	Pike	1,429	715
KY0980575	Mountain Water District	Pike	48,166	22,482
KY0980350	Pikeville Water Department	Pike	9,105	4,162
		Totals:	144,169	66,013

Big Sandy Area Development District
Regional Water Needs Assessment

Primary Need: **Repair and Replace Existing Infrastructure**
Secondary Need: **Increase Storage Capacity**

Discussion of Area Development District Needs:

In the Big Sandy Area 94% of the population is served by public water. The unserved population lives in very rural areas and waterline extension and maintenance is very expensive. The capital cost of designing and constructing public water system extensions is perhaps the chief impediment to the extension of public service into rural areas of the Big Sandy. The average age of water infrastructure in the region is approximately 50 years old. The primary need for the Big Sandy Area is to repair and replace existing infrastructure. The aging water infrastructure need to be upgraded or replaced. The area's secondary need for sufficient water supply to deal with drought or heavy water usage implementation of inter connectivity among systems would alleviate the problem and some connections have been made.

Description and Determination of Planning Units:

Big Sandy has five Water Planning Areas: Floyd, Johnson, Magoffin, Martin, and Pike Counties. The planning group is made up of Judge Executives, Mayors, and Utilities within the planning area. The planning area follows the county boundary of the respective planning unit.

The water suppliers in the planning groups are as follows:

- Floyd County - Prestonsburg City's, Martin Water Works, Wheelwright Utilities, Southern Water and Sewer District
- Johnson County - Paintsville Utilities
- Magoffin County- Magoffin County Water District, Salyersville Water Works
- Martin County- Martin County Water District,
- Pike County-Mountain Water District, Pikeville Water Department, and Elkhorn City Water Department.

Big Sandy Area Development District
Project Ranking Methodology

The annual ranking in the Big Sandy area begins with a series of county-wide meetings comprised of all the water and sewer utilities in the county where the meeting is taking place. Each utility present decides which of their projects is to be ranked and determines the importance of those for themselves. The county ranking process is based on a consensus decision by the members present at the meeting.

While the county rankings are based on a consensus, the regional ranking process uses a quantitative points system to determine the importance of each project ranked at the county level. The points given to each project fall within 7 categories: Project Type, Compliance, Financial, Project Status, County Ranking, Water Loss, and Regional Importance.

Project Type

A.	Elimination of Public Water System (PWS) through a merger	25
B.	Elimination of a water treatment plant through an interconnection.	23
C.	Construction of a new water treatment plant for regional provider.	20
D.	Construction of a supplemental potable/raw water supply	17
E.	Rehabilitation and/or replacement of aging infrastructure or for hydraulic necessity	15
F.	Construction of a new water treatment plant or expansion	15
G.	Construction of a new water storage tank	10
H.	Extension of Service to Unserved Households	
	a. 9+ households per mile	20
	b. 7-8 households per mile	19
	c. 5-6 households per mile	18
	d. 3-4 households per mile	15
	e. 1-2 households per mile	10

Compliance with Enforcement Action

	Is the project necessary to achieve full or partial compliance with a court order, agreed order, or a judicial or administrative consent decree?	20

Financial

A.	Documented financing plan in Project Profile	10
B.	Utility service area has a MHI less than $32,958	20
C.	Utility service area with a MHI between $41,197 and $32,959	10

Project Status

A.	Estimated engineer's budget complete	5
B.	Estimated bid date and construction start date	5

County Ranking

A.	Number one ranked project	24
B.	Number two ranked project	20
C.	Number three ranked project	16
D.	Number four ranked project	14
E.	Number five ranked project	12

Water Loss

A.	Utility has a water loss percentage less than 15%	20
B.	Utility has a water loss percentage between 15% to 25%	15
C.	Utility has a water loss percentage between 25% to 35%	10

Regional Importance

A project can be awarded points at the discretion of the regional water management council.
No more than thirty points can be awarded by the council to water projects in the regional ranking.

Project Rankings For Big Sandy Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21195114	Marion Branch Industrial Park - Water Infrastructure Project	0-2 Years	Not Funded	$4,370,000	Pike	1	1
WX21159006	Martin County Rehab Aging Infrastructure	0-2 Years	Not Funded	$2,760,960	Martin	2	2
WX21195010	Railroad Bridge Water Line Replacement	0-2 Years	Not Funded	$192,000	Pike	3	2
WX21071001	City of Martin Emergency Water Interconnect	0-2 Years	Not Funded	$101,749	Floyd	4	1
WX21153019	Magoffin Industrial Park	0-2 Years	Not Funded	$431,300	Magoffin	5	1
WX21195023	MWD - Ridgeline Road Section 3 Upper Pompey	0-2 Years	Not Funded	$1,850,000	Pike	6	3
WX21153013	Salyersville Church Street Storage Tank	0-2 Years	Not Funded	$700,982	Magoffin	7	3
WX21071730	SWSD - Lackey to Wayland Water Line Replacement	3-5 Years	Not Funded	$1,350,000	Floyd	8	3
WX21071223	PCUC-Modifications to Existing Water Treatment Plant	3-5 Years	Not Funded	$1,088,085	Floyd	9	4
WX21153023	Magoffin County Water District - Radio Telemetry System	0-2 Years	Not Funded	$644,000	Magoffin	10	2
WX21071008	Southern Water - Mink Branch Tank Replacement	0-2 Years	Not Funded	$550,000	Floyd	11	5
WX21153029	Magoffin - KY 542 Water Line Extension	6-10 Years	Not Funded	$772,900	Magoffin	12	4
WX21153012	Salyersville Water Supply Project-Phase III	0-2 Years	Not Funded	$1,600,000	Magoffin	13	5
WX21159021	Martin County Water District Radio Read Meters	0-2 Years	Not Funded	$822,500	Martin	14	1
WX21195024	City of Pikeville By-pass Waterline Extension	0-2 Years	Not Funded	$500,000	Pike	15	4
WX21195020	MWD - Sycamore Waterline Extension Phase II	0-2 Years	Unknown	$0	Pike	16	6
WX21195017	MWD-System Wide Tank Rehabilitation	0-2 Years	Partially Funded	$750,000	Pike	17	5
WX21195021	Greasy Creek Booster Pump Station	0-2 Years	Not Funded	$500,000	Pike	18	8
WX21071731	Southern Water & Sewer District – Water Meter Change Out Program	3-5 Years	Not Funded	$1,329,400	Floyd	19	2
WX21195007	City of Elkhorn City John Moore's Branch Water Line Extension	0-2 Years	Not Funded	$315,887	Pike	20	7
			Total Cost:	**$20,629,763**			

Floyd County

- 2010 census population of 39,451 (18,175 households) with 96% serviceable.
- Projected 2020 population of 37,153 (change of -2,298).
- Floyd County has 613.61 miles of existing water lines.
- 16.00 miles of line extensions proposed in the next 10 years.
- 16.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $10,484,443.
- Estimated funding needs for projects from 6 to 10 years: $3,042,800.



Floyd County has a 2010 census population count of 39,451 (18,175 households) with a projected 2020 population count of 37,153 (15,594 households). Public water is currently available to approximately 96 percent of the county's households based on 2010 census counts. Over the next ten years approximately 76 serviceable households will be added through the construction of 16.00 miles of water line extensions and approximately 745 instances of improved service through the rehabilitation of 16.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Knott County Water & Sewer District	1	$4,084,500	-	-	1.00	-	-
Prestonsburg City's Utilities Commission	1	$1,088,085	-	-	-	-	-
Southern Water & Sewer District	7	$5,854,658	76	745	15.00	16.00	-
Wheelwright Utilities Commission	1	$2,500,000	-	-	-	-	-
Totals:	**10**	**$13,527,243**	**76**	**745**	**16.00**	**16.00**	**-**

Community Drinking Water Systems in Floyd County

Note: Serviceability counts are for households within Floyd county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0360272	Martin Water Works	Floyd	651	375
KY0360358	Prestonsburg City's Utilities Commission	Floyd	16,834	7,695
KY0360026	Southern Water & Sewer District	Floyd	18,721	8,629
KY0360463	Wheelwright Utilities Commission	Floyd	956	399
KY0580340	Paintsville Utility Commission	Johnson	46	20
KY0770525	Magoffin County Water District	Magoffin	167	69
KY0980575	Mountain Water District	Pike	46	19
		Totals:	37,421	17,206

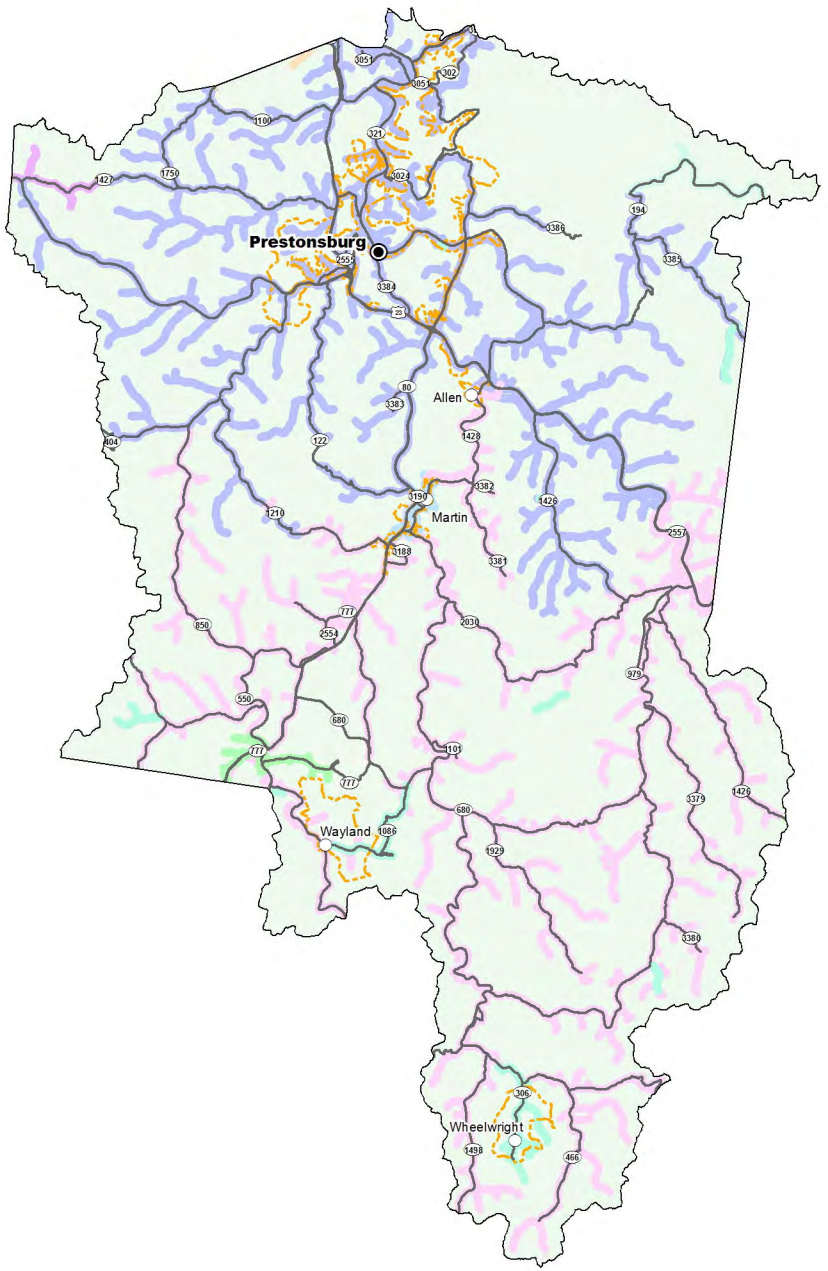
WATER SERVICE AREAS
FLOYD COUNTY
Kentucky

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January, 2013

Water Resource Information System



WATER SERVICE BY OWNER

- FRANCIS WATER COMPANY
- HINDMAN WATER DEPARTMENT
- KNOTT CO WATER & SEWER DISTRICT
- MAGOFFIN COUNTY WATER DISTRICT
- MARTIN WATER WORKS
- MOUNTAIN WATER DISTRICT
- PAINTSVILLE UTILITY COMMISSION
- PIKEVILLE WATER DEPARTMENT
- PRESTONSBURG CITY'S UTILITIES COMMISSION
- SOUTHERN WATER & SEWER DISTRICT
- WHEELWRIGHT UTILITIES COMMISSION

System Summary for Martin Water Works

PWSID	KY0360272	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	1	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$33.60 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	462
Residential Customers	274	Total Produced (MG)	-
Commercial Customers	56	Total Purchased (MG)	44.288
Institutional Customers	-	Total Inside Usage (MG)	22.104
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	50%

Total Distribution System Line Length = 9.42 miles (Distribution: 9.42 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Martin Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21071001	City of Martin Emergency Water Interconnect	0-2 Years	Not Funded	$101,749	Floyd	4	1

System Summary for Prestonsburg City's Utilities Commission

PWSID	KY0360358	Treats Water	Yes, 1 plant with total capacity of 5.040 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Municipal Utility Board or Commission	Groundwater Source	No
Employees	51	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 4 purchasers.
Inside Mun. Cost	$23.20 per 4,000 gallons.	Storage Capacity	Yes, 26 tanks with total capacity of 5.000 MG.
Outside Mun. Cost	$29.88 per 4,000 gallons.	Total Connections	7,839
Residential Customers	6,960	Total Produced (MG)	847.000
Commercial Customers	862	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	590.000
Industrial Customers	-	Total Wholesale Sold (MG)	44.288
Wholesale Customers	4	Estimated Pct. Water Loss	25%
Total Distribution System Line Length = 310.15 miles (Distribution: 310.11 miles, Transmission: 0.04 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Prestonsburg City's Utilities Commission

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21071223	PCUC-Modifications to Existing Water Treatment Plant	3-5 Years	Not Funded	$1,088,085	Floyd	9	4

System Summary for Southern Water & Sewer District

PWSID	KY0360026	Treats Water	Yes, 1 plant with total capacity of 2.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	25	Wholesale Purchaser	Yes, from 3 providers.
Non-Municipal Cost	$39.74 per 4,000 gallons.	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 37 tanks with total capacity of 3.000 MG.
Outside Mun. Cost	-	Total Connections	6,998
Residential Customers	6,998	Total Produced (MG)	603.300
Commercial Customers	113	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	577.000
Industrial Customers	-	Total Wholesale Sold (MG)	16.000
Wholesale Customers	1	Estimated Pct. Water Loss	2%

Total Distribution System Line Length = 310.81 miles (Distribution: 309.49 miles, Transmission: 1.32 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Southern Water & Sewer District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21071730	SWSD - Lackey to Wayland Water Line Replacement	3-5 Years	Not Funded	$1,350,000	Floyd	8	3
WX21071008	Southern Water - Mink Branch Tank Replacement	0-2 Years	Not Funded	$550,000	Floyd	11	5
WX21071731	Southern Water & Sewer District – Water Meter Change Out Program	3-5 Years	Not Funded	$1,329,400	Floyd	19	2
WX21071006	Southern Water and Sewer District Various Line Extensions	3-5 Years	Not Funded	$1,223,050	Floyd		
WX21071007	Southern Water - Water Treatment Plant Improvements	0-2 Years	Not Funded	$757,659	Floyd		
WX21071727	Southern Water & Sewer District - Price Tank Replacement & System Improvements	6-10 Years	Not Funded	$542,800	Floyd		

System Summary for Wheelwright Utilities Commission

PWSID	KY0360463	Treats Water	Yes, 1 plant with total capacity of 0.350 MGD.
System Type	Community	Surface Source	No
Owner Type	Municipal Utility Board or Commission	Groundwater Source	Yes, 1 source.
Employees	3	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$25.00 per 4,000 gallons.	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$25.00 per 4,000 gallons.	Total Connections	353
Residential Customers	343	Total Produced (MG)	83.500
Commercial Customers	8	Total Purchased (MG)	-
Institutional Customers	1	Total Inside Usage (MG)	51.100
Industrial Customers	1	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	39%

Total Distribution System Line Length = 8.36 miles (Distribution: 8.27 miles, Transmission: 0.09 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Wheelwright Utilities Commission

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21071903	Wheelwright Utility Commission Water Treatment Plant Improvement	6-10 Years	Partially Funded	$2,500,000	Floyd		

Johnson County

- 2010 census population of 23,356 (10,624 households) with 92% serviceable.
- Projected 2020 population of 23,265 (change of -91).
- Johnson County has 378.00 miles of existing water lines.
- 4.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $118,322.
- There are no projects planned from 6 to 10 years.



Johnson County has a 2010 census population count of 23,356 (10,624 households) with a projected 2020 population count of 23,265 (9,647 households). Public water is currently available to approximately 92 percent of the county's households based on 2010 census counts. Over the next ten years approximately 75 serviceable households will be added through the construction of 4.00 miles of water line extensions.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Paintsville Utility Commission	1	$118,322	75	-	4.00	-	-
Totals:	**1**	**$118,322**	**75**	**-**	**4.00**	**-**	**-**

Community Drinking Water Systems in Johnson County

Note: Serviceability counts are for households within Johnson county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0580340	Paintsville Utility Commission	Johnson	20,250	9,227
KY0100944	Big Sandy Water District	Boyd	49	22
KY0360358	Prestonsburg City's Utilities Commission	Floyd	1,099	471
KY0800273	Martin County Water District	Martin	49	22
KY0880594	Morgan County Water District	Morgan	26	12
		Totals:	21,473	9,754

WATER SERVICE AREAS
JOHNSON COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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January, 2013

Water Resource Information System



WATER SERVICE BY OWNER

- BIG SANDY WATER DISTRICT
- MAGOFFIN COUNTY WATER DISTRICT
- MARTIN COUNTY WATER DISTRICT
- PAINTSVILLE UTILITY COMMISSION
- PRESTONSBURG CITY'S UTILITIES COMMISSION
- SALYERSVILLE WATER WORKS

System Summary for Paintsville Utility Commission

PWSID	KY0580340	Treats Water	Yes, 1 plant with total capacity of 3.000 MGD.
System Type	Community	Surface Source	Yes, 2 sources.
Owner Type	Municipal Utility Board or Commission	Groundwater Source	No
Employees	38	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$23.25 per 4,000 gallons.	Storage Capacity	Yes, 13 tanks with total capacity of 3.000 MG.
Outside Mun. Cost	$31.60 per 4,000 gallons.	Total Connections	8,345
Residential Customers	7,709	Total Produced (MG)	1,022.000
Commercial Customers	591	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	971.510
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	1	Estimated Pct. Water Loss	5%

Total Distribution System Line Length = 377.88 miles (Distribution: 377.83 miles, Transmission: 0.06 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Paintsville Utility Commission

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21115015	Miscellaneous Water Line Extensions - Phase 3	0-2 Years	Not Funded	$118,322	Johnson		

Magoffin County

- 2010 census population of 13,333 (5,950 households) with 97% serviceable.
- Projected 2020 population of 13,587 (change of 254).
- Magoffin County has 366.91 miles of existing water lines.
- 17.00 miles of line extensions proposed in the next 10 years.
- 1.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $6,218,032.
- Estimated funding needs for projects from 6 to 10 years: $7,019,100.



Magoffin County has a 2010 census population count of 13,333 (5,950 households) with a projected 2020 population count of 13,587 (5,696 households). Public water is currently available to approximately 97 percent of the county's households based on 2010 census counts. Over the next ten years approximately 25 serviceable households will be added through the construction of 17.00 miles of water line extensions and approximately 3,475 instances of improved service through the rehabilitation of 1.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Magoffin County Fiscal Court	2	$875,515	7	-	2.00	-	-
Magoffin County Water District	5	$2,155,400	18	3,435	12.00	-	-
Prestonsburg City's Utilities Commission	1	$1,088,085	-	-	-	-	-
Salyersville Water Works	5	$9,118,132	-	40	3.00	1.00	-
Totals:	**13**	**$13,237,132**	**25**	**3,475**	**17.00**	**1.00**	**-**

Community Drinking Water Systems in Magoffin County

Note: Serviceability counts are for households within Magoffin county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0770525	Magoffin County Water District	Magoffin	10,648	4,759
KY0770566	Salyersville Water Works	Magoffin	2,256	1,004
		Totals:	12,904	5,763

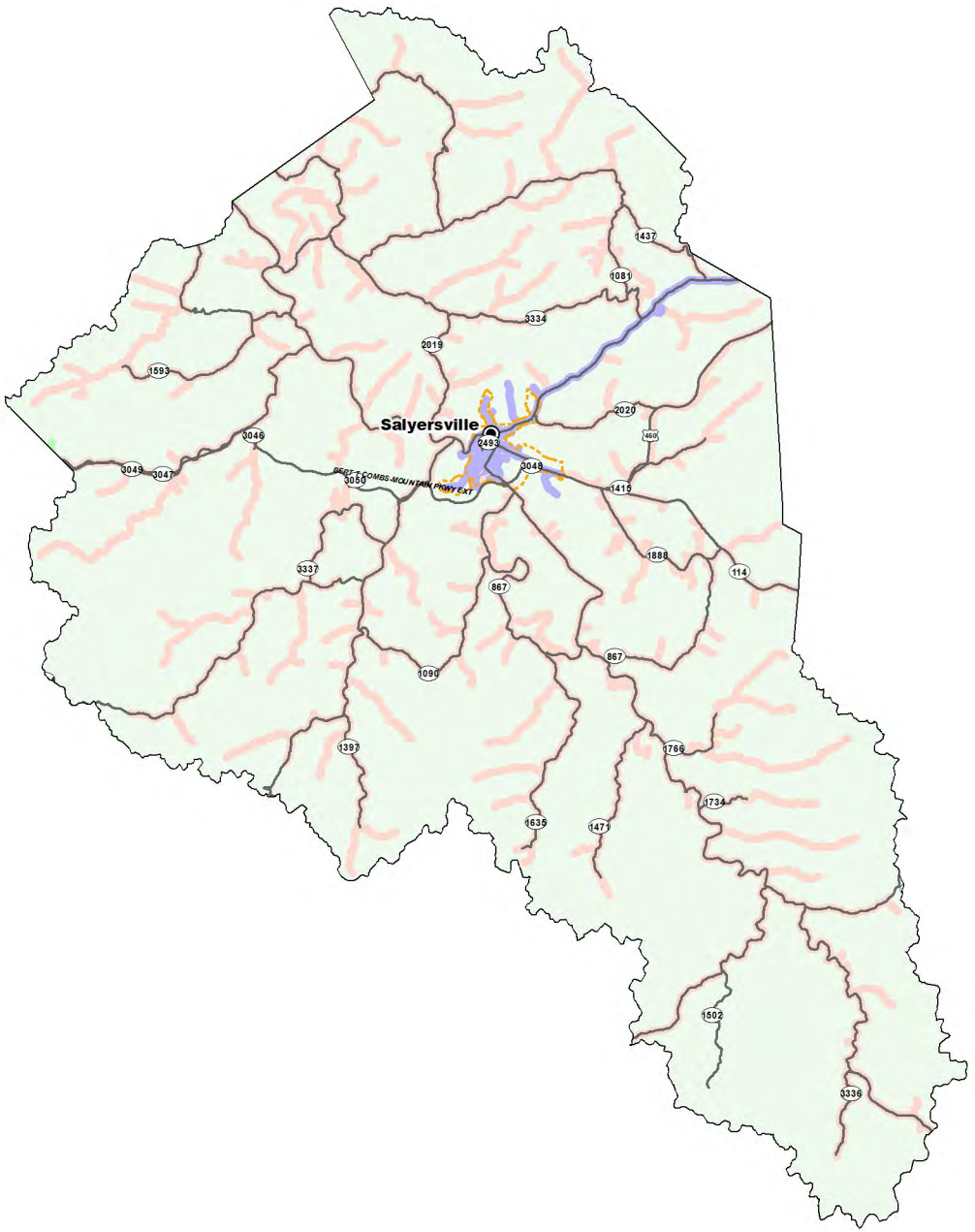
WATER SERVICE AREAS
MAGOFFIN COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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January, 2013

Water Resource Information System



N

WATER SERVICE BY OWNER

- MAGOFFIN COUNTY WATER DISTRICT
- MORGAN COUNTY WATER DISTRICT
- SALYERSVILLE WATER WORKS

System Summary for Magoffin County Water District

PWSID	KY0770525	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	10	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$29.80 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 21 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	3,467
Residential Customers	3,394	Total Produced (MG)	-
Commercial Customers	71	Total Purchased (MG)	192,000.000
Institutional Customers	-	Total Inside Usage (MG)	186.280
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	100%

Total Distribution System Line Length = 339.94 miles (Distribution: 339.48 miles, Transmission: 0.46 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Magoffin County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21153019	Magoffin Industrial Park	0-2 Years	Not Funded	$431,300	Magoffin	5	1
WX21153023	Magoffin County Water District - Radio Telemetry System	0-2 Years	Not Funded	$644,000	Magoffin	10	2
WX21153029	Magoffin - KY 542 Water Line Extension	6-10 Years	Not Funded	$772,900	Magoffin	12	4
WX21153028	Magoffin - Emergency Tie-In Bloomington to Grape Creek Along Us	6-10 Years	Not Funded	$217,500	Magoffin		
WX21153032	Magoffin County Waterline Extension to Sand Bottom	6-10 Years	Not Funded	$89,700	Magoffin		

System Summary for Salyersville Water Works

PWSID	KY0770566	Treats Water	Yes, 1 plant with total capacity of 1.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	12	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$32.50 per 4,000 gallons.	Storage Capacity	Yes, 4 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$41.10 per 4,000 gallons.	Total Connections	1,200
Residential Customers	1,063	Total Produced (MG)	252.000
Commercial Customers	136	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	72.000
Industrial Customers	1	Total Wholesale Sold (MG)	192,000.000
Wholesale Customers	1	Estimated Pct. Water Loss	-76119%
Total Distribution System Line Length = 34.48 miles (Distribution: 25.86 miles, Transmission: 8.62 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Salyersville Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21153013	Salyersville Church Street Storage Tank	0-2 Years	Not Funded	$700,982	Magoffin	7	3
WX21153012	Salyersville Water Supply Project-Phase III	0-2 Years	Not Funded	$1,600,000	Magoffin	13	5
WX21153518	Salyersville Raw Water Supply Project	6-10 Years	Not Funded	$5,939,000	Magoffin		
WX21153025	Magoffin County Water District Waterline Extensions	0-2 Years	Partially Funded	$600,000	Magoffin		
WX21153519	Salyersville Raw Water Supply Project - Drilled Production Wells	0-2 Years	Not Funded	$528,000	Magoffin		
WX21153033	Salyersville Aging Main Phase III	0-2 Years	Not Funded	$350,150	Magoffin		
WX21153018	Magoffin County High School Infrastructure - Waterline Extension	0-2 Years	Not Funded	$275,515	Magoffin		

Martin County

- 2010 census population of 12,929 (5,164 households) with 99% serviceable.
- Projected 2020 population of 12,055 (change of -874).
- Martin County has 238.37 miles of existing water lines.
- There are no line extensions proposed in the next 10 years.
- 18.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $4,595,060.
- There are no projects planned from 6 to 10 years.



Martin County has a 2010 census population count of 12,929 (5,164 households) with a projected 2020 population count of 12,055 (4,410 households). Public water is currently available to approximately 99 percent of the county's households based on 2010 census counts. Over the next ten years approximately 3,885 instances of improved service through the rehabilitation of 18.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Martin County Water District	3	$4,595,060	-	3,885	-	18.00	-
Totals:	**3**	**$4,595,060**	**-**	**3,885**	**-**	**18.00**	**-**

Community Drinking Water Systems in Martin County

Note: Serviceability counts are for households within Martin county only.

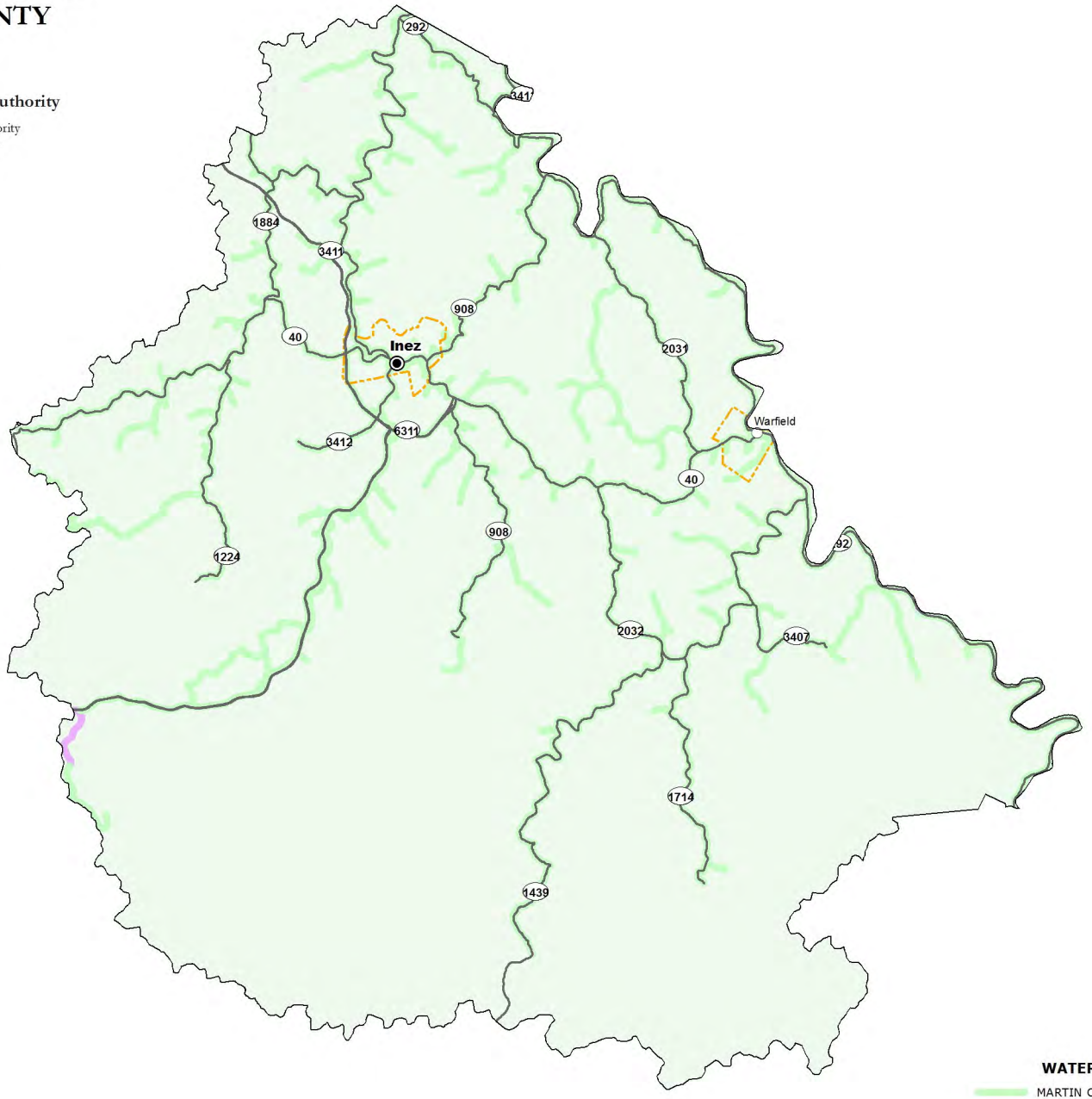
PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0800273	Martin County Water District	Martin	11,796	5,083
		Totals:	11,796	5,083

WATER SERVICE AREAS
MARTIN COUNTY
Kentucky

Prepared By:
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January, 2013



WATER SERVICE BY OWNER
MARTIN COUNTY WATER DISTRICT
PRESTONSBURG CITY'S UTILITIES COMMISSION

System Summary for Martin County Water District

PWSID	KY0800273	Treats Water	Yes, 1 plant with total capacity of 2.400 MGD.
System Type	Community	Surface Source	Yes, 2 sources.
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	15	Wholesale Purchaser	Yes, from 3 providers.
Non-Municipal Cost	$41.10 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 17 tanks with total capacity of 3.000 MG.
Outside Mun. Cost	-	Total Connections	3,600
Residential Customers	3,335	Total Produced (MG)	620.000
Commercial Customers	265	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	570.000
Industrial Customers	2	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	8%
Total Distribution System Line Length = 239.58 miles (Distribution: 233.93 miles, Transmission: 5.65 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Martin County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21159006	Martin County Rehab Aging Infrastructure	0-2 Years	Not Funded	$2,760,960	Martin	2	2
WX21159021	Martin County Water District Radio Read Meters	0-2 Years	Not Funded	$822,500	Martin	14	1
WX21159007	Water Treatment Plant Clarifier Rehab	0-2 Years	Not Funded	$1,011,600	Martin		

Pike County

- 2010 census population of 65,024 (30,304 households) with 91% serviceable.
- Projected 2020 population of 61,991 (change of -3,033).
- Pike County has 879.68 miles of existing water lines.
- 23.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $10,273,887.
- Estimated funding needs for projects from 6 to 10 years: $2,310,000.



Pike County has a 2010 census population count of 65,024 (30,304 households) with a projected 2020 population count of 61,991 (26,357 households). Public water is currently available to approximately 91 percent of the county's households based on 2010 census counts. Over the next ten years approximately 92 serviceable households will be added through the construction of 23.00 miles of water line extensions and approximately 8,216 instances of improved service through system wide upgrades.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Elkhorn City	3	$1,112,887	4	-	2.00	-	-
City of Pikeville	2	$4,870,000	17	4,200	10.00	-	-
Mountain Water District	6	$6,601,000	71	4,016	11.00	-	-
Totals:	**11**	**$12,583,887**	**92**	**8,216**	**23.00**	**-**	**-**

Community Drinking Water Systems in Pike County

Note: Serviceability counts are for households within Pike county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0980120	Elkhorn City Water Department	Pike	1,429	715
KY0980575	Mountain Water District	Pike	48,119	22,463
KY0980350	Pikeville Water Department	Pike	9,099	4,160
KY0360358	Prestonsburg City's Utilities Commission	Floyd	120	50
KY0360026	Southern Water & Sewer District	Floyd	237	102
KY0670213	Jenkins Water System	Letcher	183	85
		Totals:	59,187	27,575

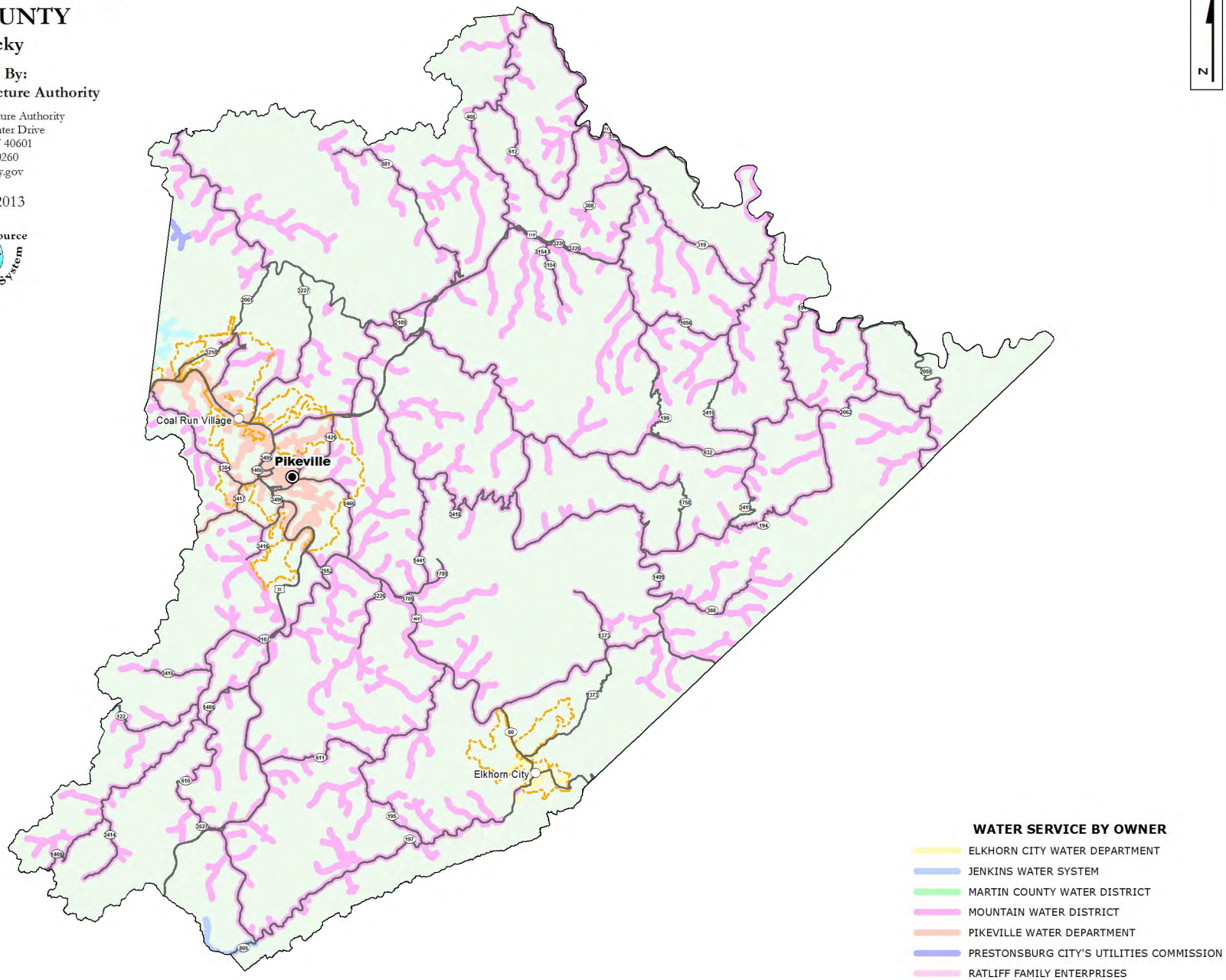
WATER SERVICE AREAS
PIKE COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

Kentucky Infrastructure Authority
1024 Capital Center Drive
Frankfort, KY 40601
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http://kia.ky.gov

January, 2013

Water Resource Information System



System Summary for Elkhorn City Water Department

PWSID	KY0980120	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	3	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$34.04 per 4,000 gallons.	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	576
Residential Customers	508	Total Produced (MG)	-
Commercial Customers	66	Total Purchased (MG)	6.000
Institutional Customers	-	Total Inside Usage (MG)	5.800
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	3%

Total Distribution System Line Length = 18.63 miles (Distribution: 18.42 miles, Transmission: 0.20 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Elkhorn City Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21195010	Railroad Bridge Water Line Replacement	0-2 Years	Not Funded	$192,000	Pike	3	2
WX21195007	City of Elkhorn City John Moore's Branch Water Line Extension	0-2 Years	Not Funded	$315,887	Pike	20	7
WX21195009	City of Elkhorn City - Water Improvements - Radio Read Meters	3-5 Years	Not Funded	$605,000	Pike		

System Summary for Mountain Water District

PWSID	KY0980575	Treats Water	Yes, 1 plant with total capacity of 3.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	56	Wholesale Purchaser	Yes, from 3 providers.
Non-Municipal Cost	$34.04 per 4,000 gallons.	Wholesale Provider	Yes, to 4 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 101 tanks with total capacity of 7.000 MG.
Outside Mun. Cost	-	Total Connections	17,800
Residential Customers	16,175	Total Produced (MG)	928.118
Commercial Customers	936	Total Purchased (MG)	724.000
Institutional Customers	-	Total Inside Usage (MG)	86.653
Industrial Customers	-	Total Wholesale Sold (MG)	6.000
Wholesale Customers	4	Estimated Pct. Water Loss	94%
Total Distribution System Line Length = 760.04 miles (Distribution: 758.53 miles, Transmission: 1.52 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Mountain Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21195023	MWD - Ridgeline Road Section 3 Upper Pompey	0-2 Years	Not Funded	$1,850,000	Pike	6	3
WX21195017	MWD-System Wide Tank Rehabilitation	0-2 Years	Partially Funded	$750,000	Pike	17	5
WX21195021	Greasy Creek Booster Pump Station	0-2 Years	Not Funded	$500,000	Pike	18	8
WX21195738	MWD - Scott Fork Phase 1	6-10 Years	Not Funded	$1,510,000	Pike		
WX21195018	Johns Creek Rail Road and Deskins/Kimper Pump Station Relocation Project	0-2 Years	Not Funded	$1,191,000	Pike		
WX21195740	MWD-Various Waterline Extensions	6-10 Years	Not Funded	$800,000	Pike		

System Summary for Pikeville Water Department

PWSID	KY0980350	Treats Water	Yes, 1 plant with total capacity of 6.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	9	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	$23.60 per 4,000 gallons.	Storage Capacity	Yes, 14 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	$35.10 per 4,000 gallons.	Total Connections	14,700
Residential Customers	3,970	Total Produced (MG)	1,200.000
Commercial Customers	653	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	390.000
Industrial Customers	-	Total Wholesale Sold (MG)	458.000
Wholesale Customers	2	Estimated Pct. Water Loss	29%
Total Distribution System Line Length = 97.51 miles (Distribution: 97.40 miles, Transmission: 0.11 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Pikeville Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21195114	Marion Branch Industrial Park - Water Infrastructure Project	0-2 Years	Not Funded	$4,370,000	Pike	1	1
WX21195024	City of Pikeville By-pass Waterline Extension	0-2 Years	Not Funded	$500,000	Pike	15	4

Buffalo Trace Area Development District (BTADD)

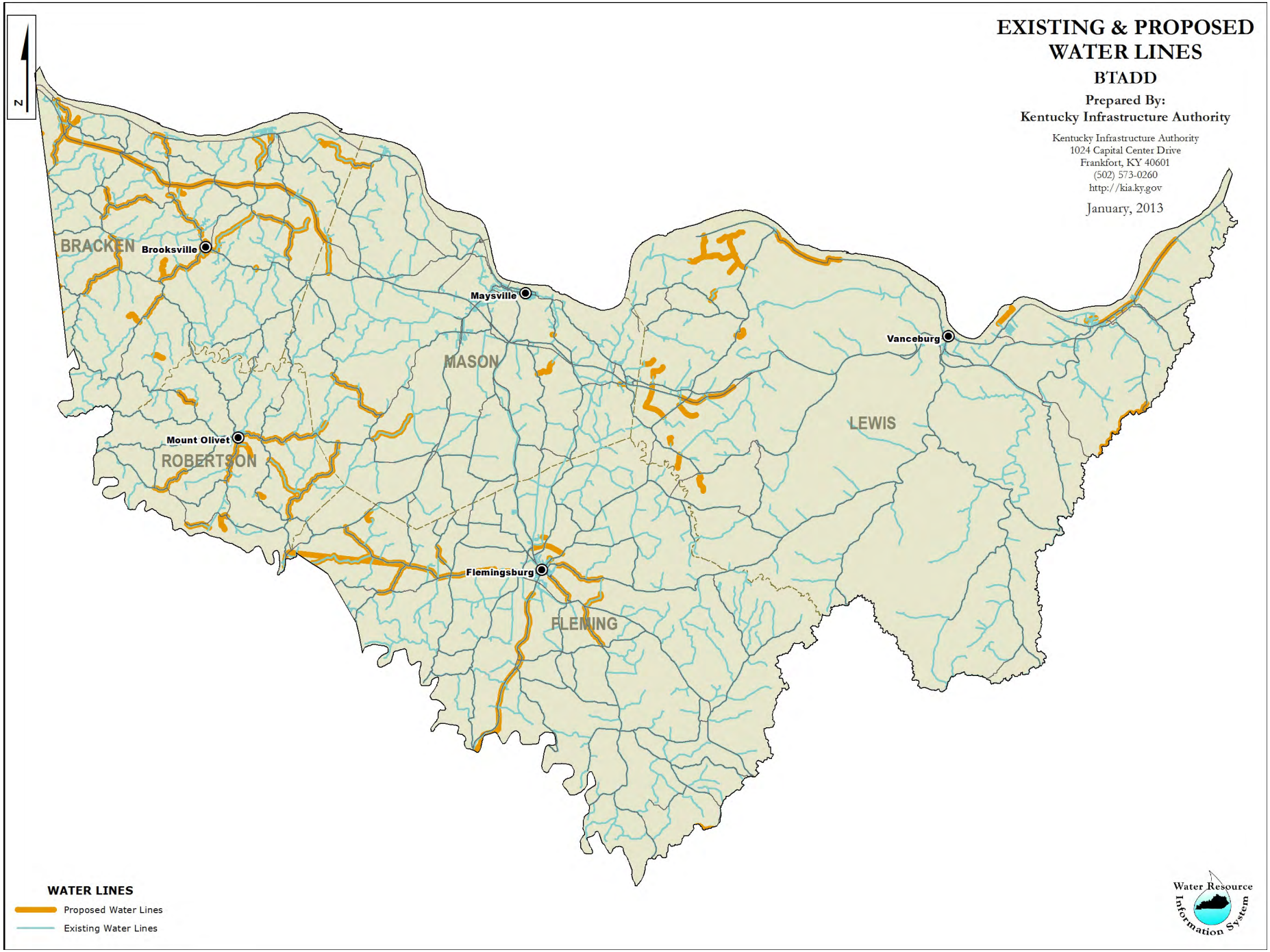


- 2010 census population of 56,478 (26,144 households) with 97% serviceable.
- Projected 2020 population of 58,306 (change of 1,828).
- 1,742.61 miles of existing water lines.
- 18.00 miles of line extensions proposed in the next 10 years.
- 90.00 miles of line rehabilitation proposed in the next 10 years.
- 1.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $13,161,500.
- Estimated funding needs for projects from 6 to 10 years: $11,217,500.
- Average age of structures: water treatment plants is 34 years; water tanks is 22 years.
- Total number of interconnected systems is 16.
- 111 miles of asbestos concrete pipe currently in use.
- 555 miles of water lines less than 15 years old.
- 793 miles of water lines between 15 and 30 years old.
- 254 miles of water lines between 31 and 50 years old.
- 116 miles of water lines between 51 and 70 years old.
- 27 miles of water lines greater than 70 years old.

Buffalo Trace Area Development District has a 2010 census population count of 56,478 (26,144 households) with a projected 2020 population count of 58,306 (24,059 households). Public water is currently available to approximately 97 percent of the district's households based on 2010 census counts. Over the next ten years approximately 148 serviceable households will be added through the construction of 18.00 miles of water line extensions and approximately 29,559 instances of improved service through the rehabilitation of 90.00 miles of existing water lines and other appurtenances. 1.00 miles of transmission lines are also proposed within this district.

County Summary for Buffalo Trace Area Development District

County Name	2010 Population	2010 Households	2020 Population	2020 Households	Serviceable Households	Percent Serviceable	Planned Cost 0 to 10 Years
Bracken	8,488	3,840	8,744	3,538	3,796	99%	$ 6,250,500
Fleming	14,348	6,623	14,880	6,231	6,502	98%	$ 7,330,000
Lewis	13,870	6,481	13,899	5,717	6,150	95%	$ 3,694,500
Mason	17,490	8,105	18,419	7,608	7,809	96%	$ 5,419,000
Robertson	2,282	1,095	2,364	965	1,089	100%	$ 1,685,000
Totals	**56,478**	**26,144**	**58,306**	**24,059**	**25,346**	**97%**	**$ 24,379,000**


EXISTING & PROPOSED
WATER LINES
BTADD
Prepared By:
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January, 2013
N
BRACKEN
Brooksville
Maysville
MASON
Vanceburg
LEWIS
Mount Olivet
ROBERTSON
Flemingsburg
FLEMING
WATER LINES
Proposed Water Lines
Existing Water Lines
Water Resource
Information System

Community Water Systems in Buffalo Trace Area Development District County

Note: Serviceable counts include households outside the area development district.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0120013	Augusta Regional WTP	Bracken	1,169	573
KY0120039	Bracken County Water District	Bracken	6,068	2,701
KY0120044	Brooksville Water	Bracken	655	297
KY0350133	Fleming County Water Association	Fleming	9,532	4,209
KY0350134	Flemingsburg Water	Fleming	2,917	1,493
KY0910675	Western Fleming Water District	Fleming	2,791	1,254
KY0680153	Garrison Water	Lewis	2,820	1,253
KY0680438	Vanceburg Water	Lewis	6,238	2,954
KY0810046	Buffalo Trail Water Association	Mason	3,426	1,601
KY0810275	Maysville Water	Mason	11,263	5,403
KY0810366	Western Lewis-Rectorville Water & Gas District	Mason	4,964	2,243
KY0810460	Western Mason Water District	Mason	2,186	953
KY1010297	Mount Olivet Water	Robertson	446	213
		Totals:	54,475	25,147

Buffalo Trace Area Development District
Regional Water Needs Assessment



Primary Need: **Repair and Replace Existing Infrastructure**
Secondary Need: **Increase Storage Capacity**

Discussion of Area Development District Needs:

Buffalo Trace Area Development District (BTADD) is comprised of Bracken, Fleming, Lewis, Mason and Robertson Counties. Thirteen (13) water systems provide potable water to the residents of the area. In addition, one water commission provides water on a wholesale basis to other utilities. During a Regional Water Management Council meeting, the systems were given the opportunity to meet with the other systems in their respective county to discuss the needs for their system and determine the needs that were most prevalent in the county. The needs identified were used in the determination of the primary and secondary of the Buffalo Trace Area Development District.

The primary need identified in the Buffalo Trace Region is Repair and Replace Existing Infrastructure. This is the primary need for four of the five planning units and was identified as the secondary need for the other county. Many of the utilities have identified this as their primary need due to aging infrastructure and undersized lines. Approximately 250 miles of water line in the region was constructed prior to 1970, with more than 200 miles being constructed of AC line. In addition, wells need to be replaced and tanks need to be cleaned.

The secondary need identified is Increase Storage Capacity. This was identified as the primary need in one planning unit and secondary in two planning units. Several areas do not have adequate storage to meet regular demands within the area.

Additional secondary needs identified by the planning units include: Economic Stimulation and Meet Regulatory Requirements

Description and Determination of Planning Units:

The Buffalo Trace Area Development covers five planning units, each encompassing a political county boundary. The five planning units are: Bracken County, Fleming County, Lewis County, Mason County and Robertson County.

There are five water utilities in Bracken County: Augusta Regional WTP, Bracken County Water District, Brooksville Utility, Buffalo Trail Water Association and Western Mason Water District.

Four utilities serve residences in Fleming County. They include: Fleming County Water Association, Flemingsburg Utility, Western Fleming Water District and Rowan Water, Inc. In addition, Greater Fleming Regional Water Commission is a wholesale provider to Fleming County Water Association, Flemingsburg Utility and Western Fleming Water District.

Lewis County residents are served by three systems: Garrison Quincy Heights Water District, Vanceburg Electric Plant Board and Western Lewis Rectorville Water District.

Mason County is served by six utilities: Maysville Utility System, Western Mason Water District, Western Lewis Rectorville Water District, Buffalo Trail Water Association, Bracken County Water District and Fleming County Water Association.

Robertson County has service provided by Mt. Olivet Water and Buffalo Trail Water Association.

Buffalo Trace Area Development District
Project Ranking Methodology



Buffalo Trace completes county meetings. Every person who is on the mailing list for the Water Management Council (systems, Judge Executives, Mayors, engineers, Health Departments, DOW, etc.) is notified of the meetings. Each project is discussed and then the individuals present at the meeting rank the projects by what they determine to be most important and beneficial for the county. The rankings are reached by consensus.

After the county meetings, the Water Management Council ranks the projects on a regional basis. Each project that received a #1 ranking at the county meeting is presented. The Council then ranks those projects as to what is determined to be the most important and beneficial for the region. After those five projects are ranked and consensus reached, the projects are ranked on an alternating basis. The county that received the number 1 rank then receives the number 10 rank. The county that received the 2 rank receives the 9 rank. The county that received the 3 rank receives the 8 rank. The county that received the 4 rank receives the 7 rank. The county that received the 5 rank receives the 6 rank.

The rankings continue in an alternating fashion.
Basically;
County A receives regional rankings of 1, 10, 11, 20, etc.
County B receives regional rankings of 2, 9, 12, 19, etc.
County C receives regional rankings of 3, 8, 13, 18, etc.
County D receives regional rankings of 4, 7, 14, 17, etc.
County E receives regional rankings of 5, 6, 15, 16, etc.

This process is completed for both water and sewer projects. The order of regional rankings for water and sewer projects are completed independently of each other.

Project Rankings For Buffalo Trace Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21135007	Garrison Quincy Water District-Phase 4	0-2 Years	Not Funded	$2,500,000	Lewis	1	1
WX21069037	Phase 2 - Flemingsburg Bypass Water Line Extension	0-2 Years	Not Funded	$525,000	Fleming	2	1
WX21161024	Mayslick Tank	3-5 Years	Not Funded	$1,400,000	Mason	3	1
WX21201016	BTWA-KY1029 From Ogden Ridge to KY 165	6-10 Years	Not Funded	$400,000	Robertson	4	1
WX21023045	BCWD-KY 19 Master Meter to Kelly Ridge	0-2 Years	Fully Funded	$358,000	Bracken	5	1
WX21023039	Augusta Lagoon Cleaning	3-5 Years	Not Funded	$80,000	Bracken	6	2
WX21201013	BTWA-Scattered Lines	6-10 Years	Not Funded	$365,000	Robertson	7	2
WX21161034	BTWA-Sardis Upgrade	3-5 Years	Not Funded	$150,000	Mason	8	2
WX21069022	FCWA 12" Bypass Water Line	3-5 Years	Not Funded	$501,000	Fleming	9	2
WX21135015	GQWD- Phase I AC Water Line Replacement-Bentleyville to Quincy	6-10 Years	Not Funded	$430,000	Lewis	10	2
WX21135018	GQWD- Phase II, AC Water Line Replacement- Old County Ln (In Qui	3-5 Years	Not Funded	$600,000	Lewis	11	3
WX21069034	Flemingsburg Water - East Water Street Water Line Replacement	3-5 Years	Not Funded	$215,000	Fleming	12	3
WX21161033	BTWA-Happy Ridge Upgrade	3-5 Years	Not Funded	$205,000	Mason	13	3
WX21201014	Mt. Olivet Water Upgrade-Waterworks Rd/KY 617/KY 165 S	6-10 Years	Not Funded	$370,000	Robertson	14	3
WX21023036	Augusta-New Water Tank & Loop	3-5 Years	Not Funded	$1,300,000	Bracken	15	3
WX21023044	BCWD-Shofstall Road	0-2 Years	Not Funded	$400,000	Bracken	16	4
WX21201010	BTWA - KY 1029 & Gayles Gorge	6-10 Years	Not Funded	$550,000	Robertson	17	4
WX21161038	BTWA - Old Sardis Pike	6-10 Years	Not Funded	$200,000	Mason	18	4
WX21069032	Western Fleming AC Replacement	6-10 Years	Not Funded	$5,049,000	Fleming	19	4
WX21161022	WLRWD - Office Tank	3-5 Years	Not Funded	$1,450,000	Mason	20	5
WX21069030	WFWD-Nepton Rd & Connector Rd	3-5 Years	Not Funded	$40,000	Fleming	21	5
WX21023043	Bracken County Water District-KY 19 Upgrade	3-5 Years	Not Funded	$500,000	Bracken	22	5
WX21023042	BCWD-County Roads Without Water	3-5 Years	Not Funded	$279,000	Bracken	23	6
WX21161013	Maysville Utility Telemetry/Security Improvements	6-10 Years	Not Funded	$150,000	Mason	24	6
WX21069035	WFWD-Office Upgrade	6-10 Years	Not Funded	$50,000	Fleming	25	6
WX21161035	Maysville Plant Upgrade	6-10 Years	Not Funded	$30,000	Mason	26	7
WX21069010	Western Fleming Water District Automatic Read Meters	3-5 Years	Not Funded	$170,150	Fleming	27	7
WX21023025	Bracken Co Water District - Asbsetos Cement Water Line Replacement	3-5 Years	Not Funded	$977,000	Bracken	28	7
WX21023033	BCWD - Shofstall to Locust Creek & Old 19	6-10 Years	Not Funded	$750,000	Bracken	29	8
WX21161029	Washington Pressure Zone Upgrade	3-5 Years	Not Funded	$75,000	Mason	30	8
WX21069018	Flemingsburg Automatic Read Meters	6-10 Years	Not Funded	$350,000	Fleming	31	8
WX21069013	GFCRWC- Phase III	11-20 Years	Not Funded	$16,338,000	Fleming	32	9
WX21161040	WLRWD Well 3 Rehab	6-10 Years	Not Funded	$30,000	Mason	33	9
WX21023034	BCWD-Phase V-Roads Without Water & Upgrades	6-10 Years	Not Funded	$549,500	Bracken	34	9
WX21023032	Brooksville Improvements	6-10 Years	Not Funded	$500,000	Bracken	35	10

Project Rankings For Buffalo Trace Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21161037	WMWD-Augusta Dover Road Water Line Upgrade	3-5 Years	Not Funded	$385,000	Mason	36	10
WX21069019	GFCRWC Lime Softening Upgrade	11-20 Years	Not Funded	$4,800,000	Fleming	37	10
WX21069008	Greater Fleming County Regional Water Commission -Phase 2 Extension	11-20 Years	Not Funded	$7,944,000	Fleming	38	11
WX21161036	WMWD-Walton Pike Water Line Upgrade	6-10 Years	Not Funded	$209,000	Mason	39	11
WX21023037	Brooksville & Augusta AMR & GIS	6-10 Years	Not Funded	$250,000	Bracken	40	11
WX21023031	Bracken County Water District AMR and GIS	6-10 Years	Not Funded	$280,000	Bracken	41	12
WX21023020	AA Highway	11-20 Years	Not Funded	$1,100,000	Bracken	42	13
			Total Cost:	**$52,804,650**			

Bracken County

- 2010 census population of 8,488 (3,840 households) with 99% serviceable.
- Projected 2020 population of 8,744 (change of 256).
- Bracken County has 315.18 miles of existing water lines.
- 4.00 miles of line extensions proposed in the next 10 years.
- 43.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $3,921,000.
- Estimated funding needs for projects from 6 to 10 years: $2,329,500.



Bracken County has a 2010 census population count of 8,488 (3,840 households) with a projected 2020 population count of 8,744 (3,538 households). Public water is currently available to approximately 99 percent of the county's households based on 2010 census counts. Over the next ten years approximately 20 serviceable households will be added through the construction of 4.00 miles of water line extensions and approximately 9,599 instances of improved service through the rehabilitation of 43.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Bracken County Fiscal Court	1	$250,000	-	776	-	-	-
Bracken County Water District	7	$3,735,500	19	4,783	4.00	37.00	-
City of Augusta	2	$1,380,000	1	3,716	-	-	-
City of Brooksville	1	$500,000	-	300	-	3.00	-
Western Mason Water District	1	$385,000	-	24	-	3.00	-
Totals:	**12**	**$6,250,500**	**20**	**9,599**	**4.00**	**43.00**	**-**

Community Drinking Water Systems in Bracken County

Note: Serviceability counts are for households within Bracken county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0120013	Augusta Regional WTP	Bracken	1,169	573
KY0120039	Bracken County Water District	Bracken	5,974	2,644
KY0120044	Brooksville Water	Bracken	655	297
KY0810046	Buffalo Trail Water Association	Mason	213	108
KY0810460	Western Mason Water District	Mason	405	173
		Totals:	8,416	3,795

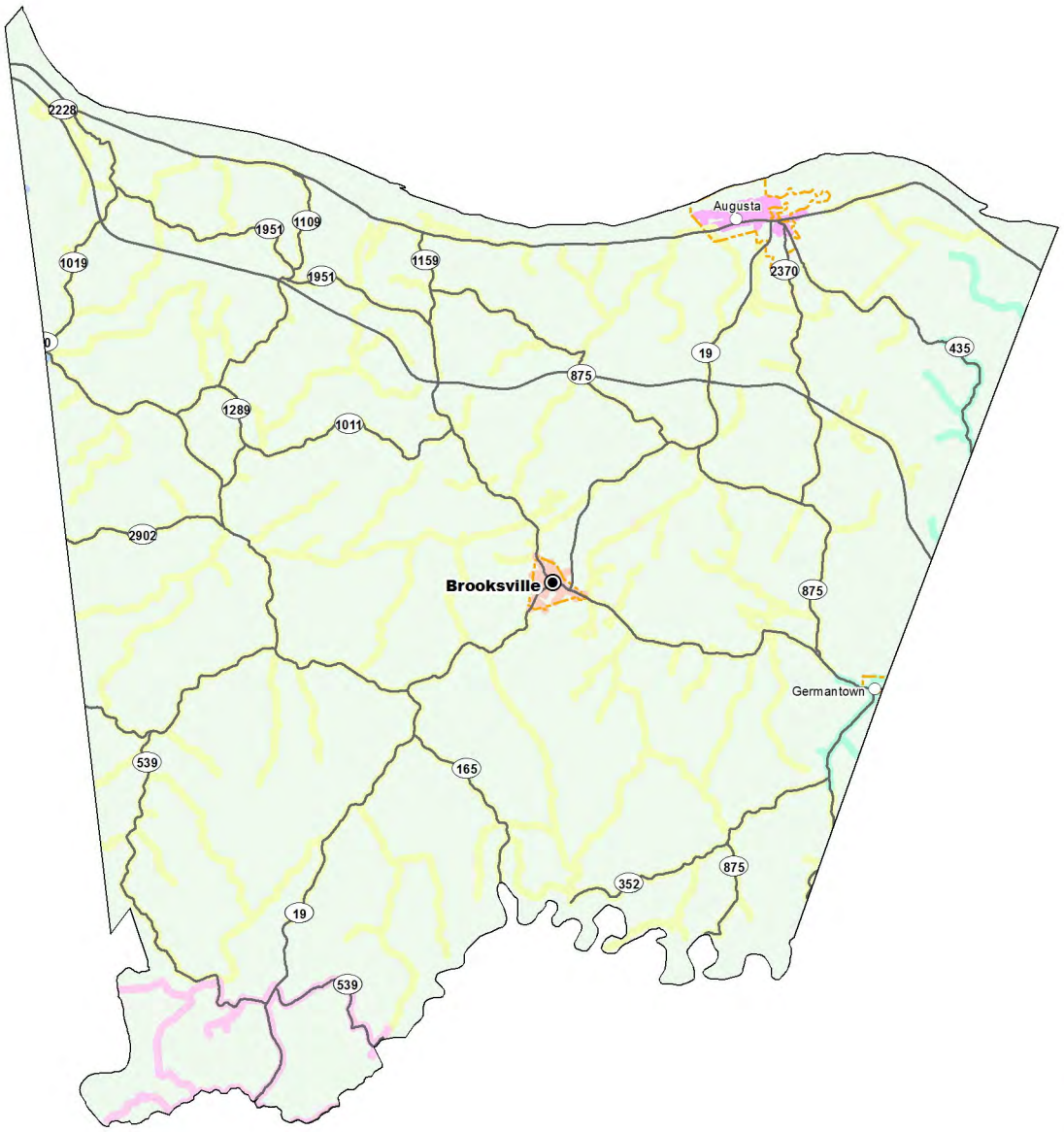
WATER SERVICE AREAS
BRACKEN COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

Kentucky Infrastructure Authority
1024 Capital Center Drive
Frankfort, KY 40601
(502) 573-0260
http://kia.ky.gov

January, 2013

Water Resource Information System



WATER SERVICE BY OWNER

- AUGUSTA REGIONAL WTP
- BRACKEN COUNTY WATER DISTRICT
- BROOKSVILLE WATER
- BUFFALO TRAIL WATER ASSOCIATION
- EAST PENDLETON WATER DISTRICT
- WESTERN MASON WATER DISTRICT

System Summary for Augusta Regional WTP

PWSID	KY0120013	Treats Water	Yes, 1 plant with total capacity of 1.728 MGD.
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	Yes, 4 sources.
Employees	7	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$21.16 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	571
Residential Customers	522	Total Produced (MG)	254.229
Commercial Customers	42	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	47.923
Industrial Customers	5	Total Wholesale Sold (MG)	164.591
Wholesale Customers	1	Estimated Pct. Water Loss	16%
Total Distribution System Line Length = 9.47 miles (Distribution: 8.71 miles, Transmission: 0.76 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Augusta Regional WTP

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21023039	Augusta Lagoon Cleaning	3-5 Years	Not Funded	$80,000	Bracken	6	2
WX21023036	Augusta-New Water Tank & Loop	3-5 Years	Not Funded	$1,300,000	Bracken	15	3
WX21023037	Brooksville & Augusta AMR & GIS	6-10 Years	Not Funded	$250,000	Bracken	40	11

System Summary for Bracken County Water District

PWSID	KY0120039	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	7	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$45.47 per 4,000 gallons.	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 4 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	2,418
Residential Customers	2,395	Total Produced (MG)	-
Commercial Customers	18	Total Purchased (MG)	164.591
Institutional Customers	-	Total Inside Usage (MG)	119.267
Industrial Customers	-	Total Wholesale Sold (MG)	24.944
Wholesale Customers	2	Estimated Pct. Water Loss	12%

Total Distribution System Line Length = 276.92 miles (Distribution: 276.92 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Bracken County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21023036	Augusta-New Water Tank & Loop	3-5 Years	Not Funded	$1,300,000	Bracken	15	3
WX21023044	BCWD-Shofstall Road	0-2 Years	Not Funded	$400,000	Bracken	16	4
WX21023042	BCWD-County Roads Without Water	3-5 Years	Not Funded	$279,000	Bracken	23	6
WX21023025	Bracken Co Water District - Asbsetos Cement Water Line Replacement	3-5 Years	Not Funded	$977,000	Bracken	28	7
WX21023033	BCWD - Shofstall to Locust Creek & Old 19	6-10 Years	Not Funded	$750,000	Bracken	29	8
WX21023034	BCWD-Phase V-Roads Without Water & Upgrades	6-10 Years	Not Funded	$549,500	Bracken	34	9
WX21023031	Bracken County Water District AMR and GIS	6-10 Years	Not Funded	$280,000	Bracken	41	12

System Summary for Brooksville Water

PWSID	KY0120044	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	2	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$33.20 per 4,000 gallons.	Storage Capacity	No
Outside Mun. Cost	$33.20 per 4,000 gallons.	Total Connections	317
Residential Customers	255	Total Produced (MG)	-
Commercial Customers	62	Total Purchased (MG)	19.340
Institutional Customers	-	Total Inside Usage (MG)	17.630
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	9%
Total Distribution System Line Length = 5.41 miles (Distribution: 5.41 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Brooksville Water

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21023036	Augusta-New Water Tank & Loop	3-5 Years	Not Funded	$1,300,000	Bracken	15	3
WX21023032	Brooksville Improvements	6-10 Years	Not Funded	$500,000	Bracken	35	10
WX21023037	Brooksville & Augusta AMR & GIS	6-10 Years	Not Funded	$250,000	Bracken	40	11

Fleming County

- 2010 census population of 14,348 (6,623 households) with 98% serviceable.
- Projected 2020 population of 14,880 (change of 532).
- Fleming County has 484.71 miles of existing water lines.
- 6.00 miles of line extensions proposed in the next 10 years.
- 18.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $1,881,000.
- Estimated funding needs for projects from 6 to 10 years: $5,449,000.



Fleming County has a 2010 census population count of 14,348 (6,623 households) with a projected 2020 population count of 14,880 (6,231 households). Public water is currently available to approximately 98 percent of the county's households based on 2010 census counts. Over the next ten years approximately 38 serviceable households will be added through the construction of 6.00 miles of water line extensions and approximately 4,304 instances of improved service through the rehabilitation of 18.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Flemingsburg	3	$1,090,000	-	1,447	3.00	-	-
Fleming County Water Association Inc	1	$501,000	-	1,000	2.00	-	-
Rowan Water Inc	1	$600,000	-	-	-	-	-
Western Fleming County Water District	3	$5,139,000	38	1,857	1.00	18.00	-
Totals:	**8**	**$7,330,000**	**38**	**4,304**	**6.00**	**18.00**	**-**

Community Drinking Water Systems in Fleming County

Note: Serviceability counts are for households within Fleming county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0350133	Fleming County Water Association	Fleming	8,255	3,691
KY0350134	Flemingsburg Water	Fleming	2,917	1,493
KY0910675	Western Fleming Water District	Fleming	2,750	1,233
KY1030375	Rowan Water, Inc	Rowan	121	56
		Totals:	14,043	6,473

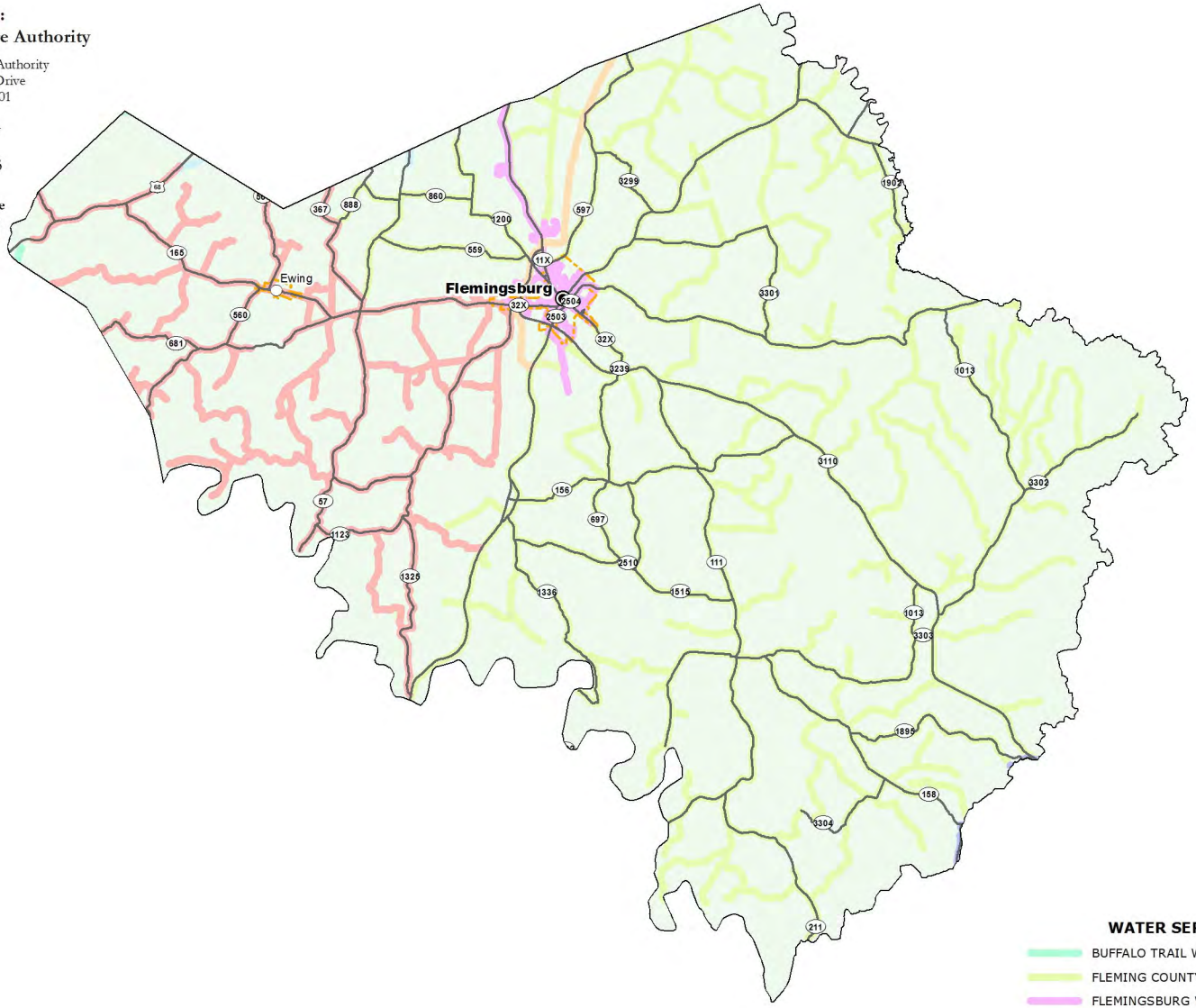
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FLEMING COUNTY
Kentucky

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January, 2013

Water Resource Information System



WATER SERVICE BY OWNER

- BUFFALO TRAIL WATER ASSOCIATION
- FLEMING COUNTY WATER ASSOCIATION
- FLEMINGSBURG WATER
- GREATER FLEMING REGIONAL WATER COMMISSION
- MAYSVILLE WATER
- ROWAN WATER, INC
- WESTERN FLEMING WATER DISTRICT

System Summary for Fleming County Water Association

PWSID	KY0350133	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water Association	Groundwater Source	No
Employees	11	Wholesale Purchaser	Yes, from 3 providers.
Non-Municipal Cost	$31.80 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 6 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	4,019
Residential Customers	3,186	Total Produced (MG)	-
Commercial Customers	581	Total Purchased (MG)	277.812
Institutional Customers	-	Total Inside Usage (MG)	251.057
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	10%
Total Distribution System Line Length = 380.87 miles (Distribution: 380.87 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Fleming County Water Association

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21069022	FCWA 12" Bypass Water Line	3-5 Years	Not Funded	$501,000	Fleming	9	2

System Summary for Flemingsburg Water

PWSID	KY0350134	Treats Water	Yes, 1 plant with total capacity of 0.720 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	9	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$34.74 per 4,000 gallons.	Storage Capacity	Yes, 4 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$45.62 per 4,000 gallons.	Total Connections	1,509
Residential Customers	1,509	Total Produced (MG)	32.835
Commercial Customers	-	Total Purchased (MG)	151.000
Institutional Customers	-	Total Inside Usage (MG)	142.225
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	23%

Total Distribution System Line Length = 33.26 miles (Distribution: 28.26 miles, Transmission: 5.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Flemingsburg Water

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21069037	Phase 2 - Flemingsburg Bypass Water Line Extension	0-2 Years	Not Funded	$525,000	Fleming	2	1
WX21069034	Flemingsburg Water - East Water Street Water Line Replacement	3-5 Years	Not Funded	$215,000	Fleming	12	3
WX21069018	Flemingsburg Automatic Read Meters	6-10 Years	Not Funded	$350,000	Fleming	31	8

System Summary for Greater Fleming Regional Water Commission

PWSID	KY0351008	Treats Water	Yes, 1 plant with total capacity of 2.880 MGD.
System Type	Community	Surface Source	No
Owner Type	Regional Water Commission	Groundwater Source	Yes, 3 sources.
Employees	2	Wholesale Purchaser	No
Non-Municipal Cost	$7.44 per 4,000 gallons.	Wholesale Provider	Yes, to 3 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 3 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	-	Total Connections	
Residential Customers	-	Total Produced (MG)	450.410
Commercial Customers	-	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	7.000
Industrial Customers	-	Total Wholesale Sold (MG)	404.016
Wholesale Customers	3	Estimated Pct. Water Loss	9%
Total Distribution System Line Length = 20.92 miles (Distribution: 0.00 miles, Transmission: 20.92 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Greater Fleming Regional Water Commission

System Summary for Western Fleming Water District

PWSID	KY0910675	Treats Water	Yes, 1 plant with total capacity of 1.730 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	5	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$29.18 per 4,000 gallons.	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	1,460
Residential Customers	1,436	Total Produced (MG)	345.221
Commercial Customers	18	Total Purchased (MG)	22.137
Institutional Customers	-	Total Inside Usage (MG)	119.773
Industrial Customers	-	Total Wholesale Sold (MG)	221.180
Wholesale Customers	2	Estimated Pct. Water Loss	7%
Total Distribution System Line Length = 124.75 miles (Distribution: 124.57 miles, Transmission: 0.18 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Western Fleming Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21069032	Western Fleming AC Replacement	6-10 Years	Not Funded	$5,049,000	Fleming	19	4
WX21069030	WFWD-Nepton Rd & Connector Rd	3-5 Years	Not Funded	$40,000	Fleming	21	5
WX21069035	WFWD-Office Upgrade	6-10 Years	Not Funded	$50,000	Fleming	25	6
WX21069010	Western Fleming Water District Automatic Read Meters	3-5 Years	Not Funded	$170,150	Fleming	27	7

Lewis County

- 2010 census population of 13,870 (6,481 households) with 95% serviceable.
- Projected 2020 population of 13,899 (change of 29).
- Lewis County has 440.90 miles of existing water lines.
- 5.00 miles of line extensions proposed in the next 10 years.
- 2.00 miles of line rehabilitation proposed in the next 10 years.
- 1.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $3,694,500.
- There are no projects planned from 6 to 10 years.



Lewis County has a 2010 census population count of 13,870 (6,481 households) with a projected 2020 population count of 13,899 (5,717 households). Public water is currently available to approximately 95 percent of the county's households based on 2010 census counts. Over the next ten years approximately 89 serviceable households will be added through the construction of 5.00 miles of water line extensions and approximately 426 instances of improved service through the rehabilitation of 2.00 miles of existing water lines and other appurtenances. 1.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of South Shore	2	$594,500	14	-	2.00	-	1.00
Garrison-Quincy-Ky-O-Heights Water District	2	$3,100,000	75	426	3.00	2.00	-
Totals:	**4**	**$3,694,500**	**89**	**426**	**5.00**	**2.00**	**1.00**

Community Drinking Water Systems in Lewis County

Note: Serviceability counts are for households within Lewis county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0680153	Garrison Water	Lewis	2,820	1,253
KY0680438	Vanceburg Water	Lewis	6,201	2,936
KY0220555	Rattlesnake Ridge Water District	Carter	103	50
KY0350133	Fleming County Water Association	Fleming	731	314
KY0450410	South Shore Water Department	Greenup	365	184
KY0810366	Western Lewis-Rectorville Water & Gas District	Mason	3,029	1,413
		Totals:	13,249	6,150

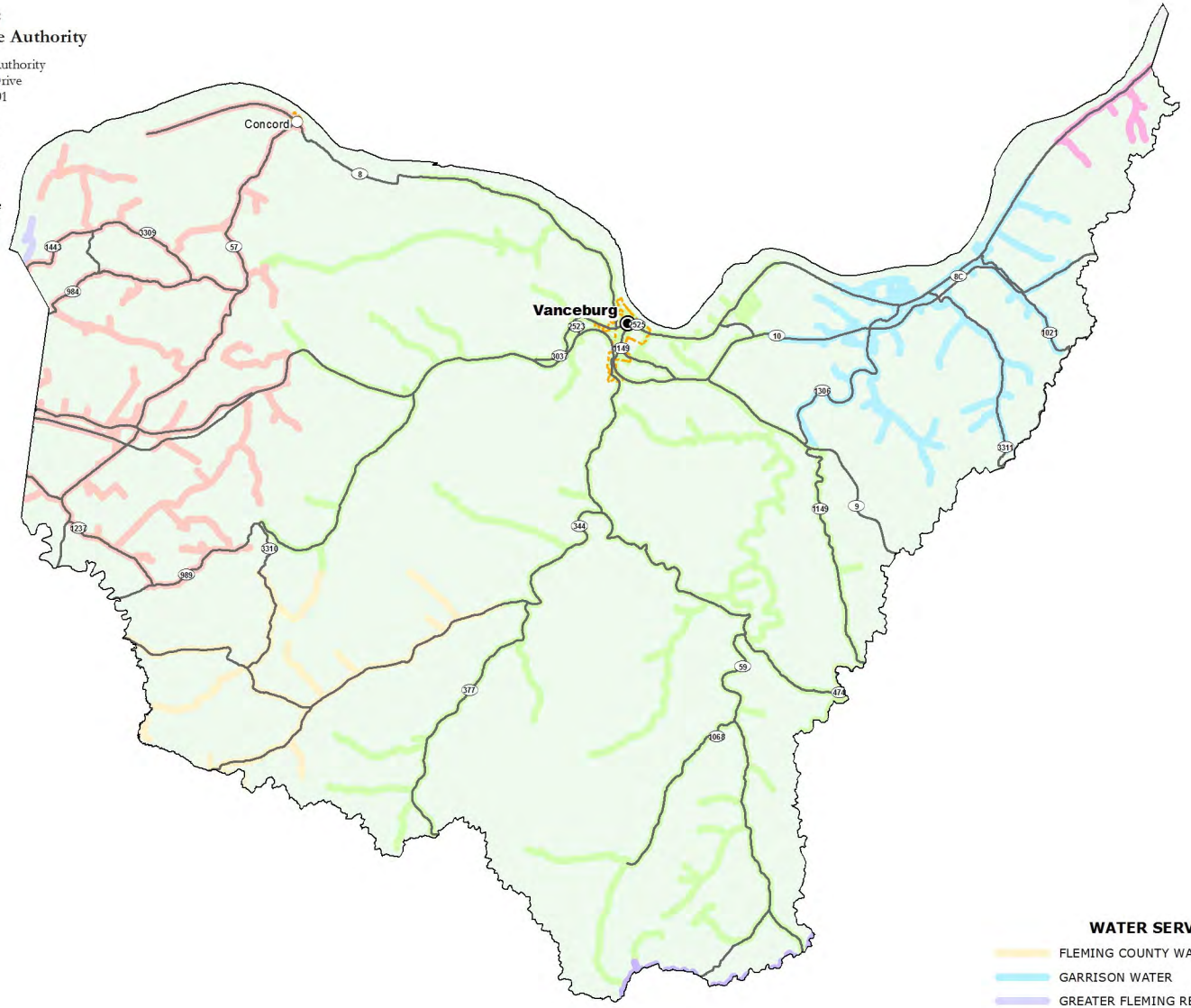
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LEWIS COUNTY
Kentucky

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January, 2013

Water Resource Information System



WATER SERVICE BY OWNER

- FLEMING COUNTY WATER ASSOCIATION
- GARRISON WATER
- GREATER FLEMING REGIONAL WATER COMMISSION
- RATTLESNAKE RIDGE WATER DISTRICT
- SOUTH SHORE WATER WORKS INC.
- VANCEBURG WATER
- WESTERN LEWIS-RECTORVILLE WATER & GAS DISTRICT

System Summary for Garrison Water

PWSID	KY0680153	Treats Water	Yes, 1 plant with total capacity of 0.288 MGD.
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	Yes, 2 sources.
Employees	6	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$33.06 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	1,065
Residential Customers	1,026	Total Produced (MG)	56.381
Commercial Customers	39	Total Purchased (MG)	14.021
Institutional Customers	-	Total Inside Usage (MG)	54.029
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	23%
Total Distribution System Line Length = 71.56 miles (Distribution: 71.51 miles, Transmission: 0.05 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Garrison Water

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21135007	Garrison Quincy Water District-Phase 4	0-2 Years	Not Funded	$2,500,000	Lewis	1	1
WX21135018	GQWD- Phase II, AC Water Line Replacement- Old County Ln (In Qui	3-5 Years	Not Funded	$600,000	Lewis	11	3
WX21089070	COSS: Interconnect with Garrison Water	0-2 Years	Not Funded	$94,500	Greenup		

System Summary for Vanceburg Water

PWSID	KY0680438	Treats Water	Yes, 1 plant with total capacity of 2.200 MGD.
System Type	Community	Surface Source	No
Owner Type	Municipal Utility Board or Commission	Groundwater Source	Yes, 4 sources.
Employees	17	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	$24.19 per 4,000 gallons.	Storage Capacity	Yes, 10 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	$32.52 per 4,000 gallons.	Total Connections	2,603
Residential Customers	2,445	Total Produced (MG)	325.900
Commercial Customers	131	Total Purchased (MG)	0.092
Institutional Customers	1	Total Inside Usage (MG)	160.221
Industrial Customers	9	Total Wholesale Sold (MG)	14.021
Wholesale Customers	2	Estimated Pct. Water Loss	47%
Total Distribution System Line Length = 212.17 miles (Distribution: 205.86 miles, Transmission: 6.31 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Vanceburg Water

Mason County

- 2010 census population of 17,490 (8,105 households) with 96% serviceable.
- Projected 2020 population of 18,419 (change of 929).
- Mason County has 363.86 miles of existing water lines.
- There are no line extensions proposed in the next 10 years.
- 12.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $3,665,000.
- Estimated funding needs for projects from 6 to 10 years: $1,754,000.



Mason County has a 2010 census population count of 17,490 (8,105 households) with a projected 2020 population count of 18,419 (7,608 households). Public water is currently available to approximately 96 percent of the county's households based on 2010 census counts. Over the next ten years approximately 14,899 instances of improved service through the rehabilitation of 12.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Bracken County Fiscal Court	1	$250,000	-	-	-	-	-
Buffalo Trail Water Association Inc	5	$1,470,000	-	102	-	9.00	-
Maysville Utility Commission	4	$1,655,000	-	13,232	-	-	-
Western Lewis-Rectorville Water & Gas District	1	$1,450,000	-	1,500	-	-	-
Western Mason Water District	2	$594,000	-	65	-	3.00	-
Totals:	**13**	**$5,419,000**	**-**	**14,899**	**-**	**12.00**	**-**

Community Drinking Water Systems in Mason County

Note: Serviceability counts are for households within Mason county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0810046	Buffalo Trail Water Association	Mason	1,304	577
KY0810275	Maysville Water	Mason	11,238	5,393
KY0810366	Western Lewis-Rectorville Water & Gas District	Mason	1,935	830
KY0810460	Western Mason Water District	Mason	1,781	780
KY0120039	Bracken County Water District	Bracken	45	30
KY0350133	Fleming County Water Association	Fleming	533	199
		Totals:	16,836	7,809

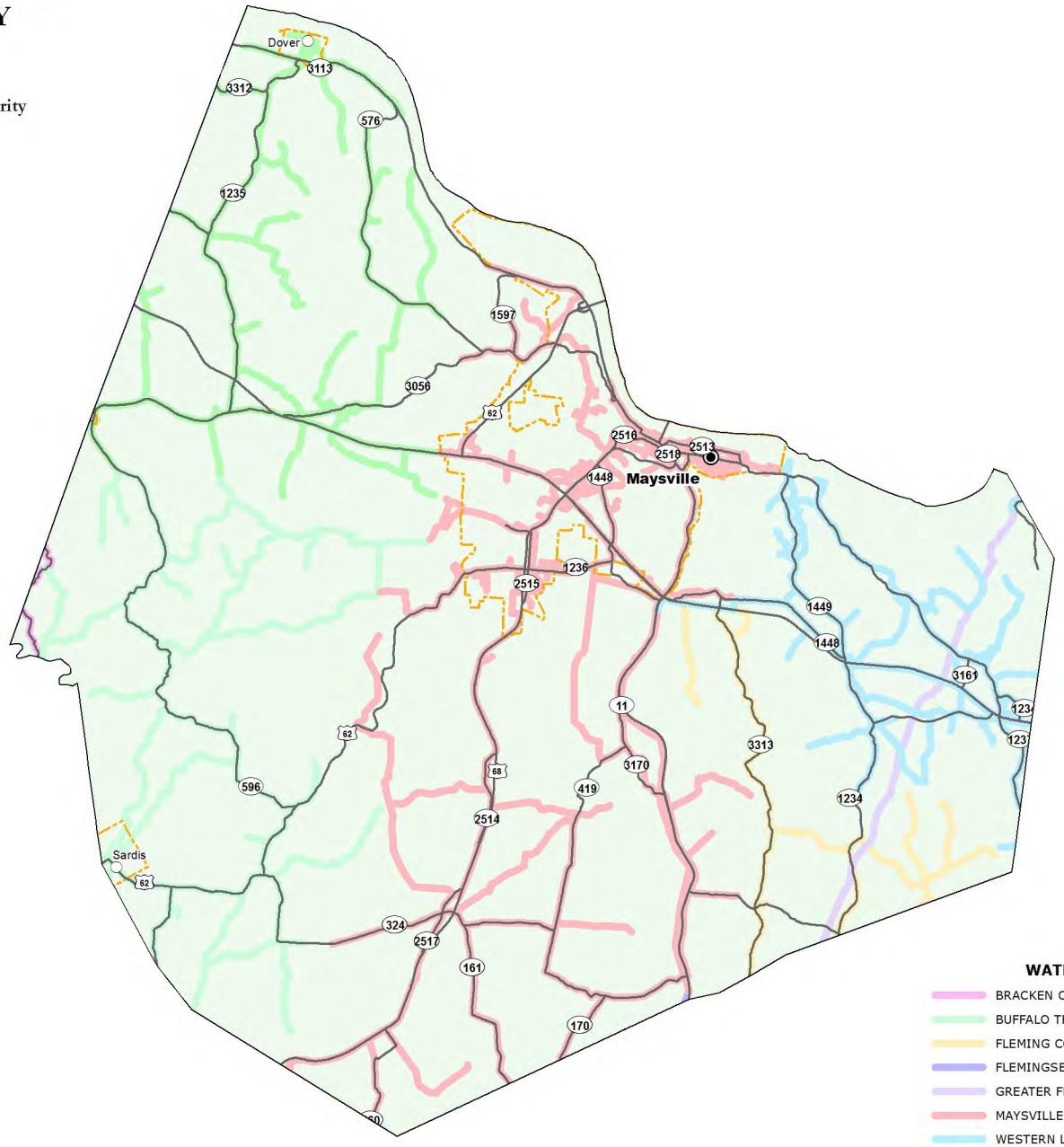
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January, 2013

Water Resource Information System



WATER SERVICE BY OWNER

- BRACKEN COUNTY WATER DISTRICT
- BUFFALO TRAIL WATER ASSOCIATION
- FLEMING COUNTY WATER ASSOCIATION
- FLEMINGSBURG WATER
- GREATER FLEMING REGIONAL WATER COMMISSION
- MAYSVILLE WATER
- WESTERN LEWIS-RECTORVILLE WATER & GAS DISTRICT
- WESTERN MASON WATER DISTRICT

System Summary for Buffalo Trail Water Association

PWSID	KY0810046	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water Association	Groundwater Source	No
Employees	2	Wholesale Purchaser	Yes, from 3 providers.
Non-Municipal Cost	$32.55 per 4,000 gallons.	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	1,465
Residential Customers	1,455	Total Produced (MG)	-
Commercial Customers	8	Total Purchased (MG)	130.292
Institutional Customers	-	Total Inside Usage (MG)	100.194
Industrial Customers	-	Total Wholesale Sold (MG)	14.275
Wholesale Customers	2	Estimated Pct. Water Loss	12%

Total Distribution System Line Length = 204.81 miles (Distribution: 204.81 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Buffalo Trail Water Association

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21201016	BTWA-KY1029 From Ogden Ridge to KY 165	6-10 Years	Not Funded	$400,000	Robertson	4	1
WX21201013	BTWA-Scattered Lines	6-10 Years	Not Funded	$365,000	Robertson	7	2
WX21161034	BTWA-Sardis Upgrade	3-5 Years	Not Funded	$150,000	Mason	8	2
WX21161033	BTWA-Happy Ridge Upgrade	3-5 Years	Not Funded	$205,000	Mason	13	3
WX21161038	BTWA - Old Sardis Pike	6-10 Years	Not Funded	$200,000	Mason	18	4

System Summary for Maysville Water

PWSID	KY0810275	Treats Water	Yes, 1 plant with total capacity of 4.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Municipal Utility Board or Commission	Groundwater Source	No
Employees	23	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 4 purchasers.
Inside Mun. Cost	$23.28 per 4,000 gallons.	Storage Capacity	Yes, 4 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$29.10 per 4,000 gallons.	Total Connections	5,106
Residential Customers	4,093	Total Produced (MG)	747.990
Commercial Customers	469	Total Purchased (MG)	-
Institutional Customers	502	Total Inside Usage (MG)	486.056
Industrial Customers	38	Total Wholesale Sold (MG)	52.646
Wholesale Customers	4	Estimated Pct. Water Loss	28%
Total Distribution System Line Length = 150.15 miles (Distribution: 143.19 miles, Transmission: 6.96 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Maysville Water

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21161024	Mayslick Tank	3-5 Years	Not Funded	$1,400,000	Mason	3	1
WX21161013	Maysville Utility Telemetry/Security Improvements	6-10 Years	Not Funded	$150,000	Mason	24	6
WX21161035	Maysville Plant Upgrade	6-10 Years	Not Funded	$30,000	Mason	26	7
WX21161029	Washington Pressure Zone Upgrade	3-5 Years	Not Funded	$75,000	Mason	30	8

System Summary for Western Lewis-Rectorville Water & Gas District

PWSID	KY0810366	Treats Water	Yes, 1 plant with total capacity of 0.500 MGD.
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	Yes, 2 sources.
Employees	9	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$29.70 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 6 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	2,244
Residential Customers	2,060	Total Produced (MG)	140.993
Commercial Customers	196	Total Purchased (MG)	10.116
Institutional Customers	-	Total Inside Usage (MG)	128.029
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	15%
Total Distribution System Line Length = 166.92 miles (Distribution: 166.75 miles, Transmission: 0.16 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Western Lewis-Rectorville Water & Gas District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21201010	BTWA - KY 1029 & Gayles Gorge	6-10 Years	Not Funded	$550,000	Robertson	17	4
WX21161022	WLRWD - Office Tank	3-5 Years	Not Funded	$1,450,000	Mason	20	5
WX21161040	WLRWD Well 3 Rehab	6-10 Years	Not Funded	$30,000	Mason	33	9

System Summary for Western Mason Water District

PWSID	KY0810460	Treats Water	Yes, 1 plant with total capacity of 0.720 MGD.
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	Yes, 2 sources.
Employees	3	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$35.50 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 4 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	1,035
Residential Customers	1,009	Total Produced (MG)	81.733
Commercial Customers	25	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	75.460
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	8%
Total Distribution System Line Length = 70.05 miles (Distribution: 69.63 miles, Transmission: 0.42 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Western Mason Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21161037	WMWD-Augusta Dover Road Water Line Upgrade	3-5 Years	Not Funded	$385,000	Mason	36	10
WX21161036	WMWD-Walton Pike Water Line Upgrade	6-10 Years	Not Funded	$209,000	Mason	39	11

Robertson County



- 2010 census population of 2,282 (1,095 households) with 100% serviceable.
- Projected 2020 population of 2,364 (change of 82).
- Robertson County has 137.96 miles of existing water lines.
- 3.00 miles of line extensions proposed in the next 10 years.
- 15.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- There are no projects planned from 0 to 5 years.
- Estimated funding needs for projects from 6 to 10 years: $1,685,000.

Robertson County has a 2010 census population count of 2,282 (1,095 households) with a projected 2020 population count of 2,364 (965 households). Public water is currently available to approximately 100 percent of the county's households based on 2010 census counts. Over the next ten years approximately 1 serviceable households will be added through the construction of 3.00 miles of water line extensions and approximately 331 instances of improved service through the rehabilitation of 15.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Buffalo Trail Water Association Inc	3	$1,315,000	1	175	3.00	11.00	-
City of Mount Olivet	1	$370,000	-	156	-	4.00	-
Totals:	**4**	**$1,685,000**	**1**	**331**	**3.00**	**15.00**	**-**

Community Drinking Water Systems in Robertson County

Note: Serviceability counts are for households within Robertson county only.

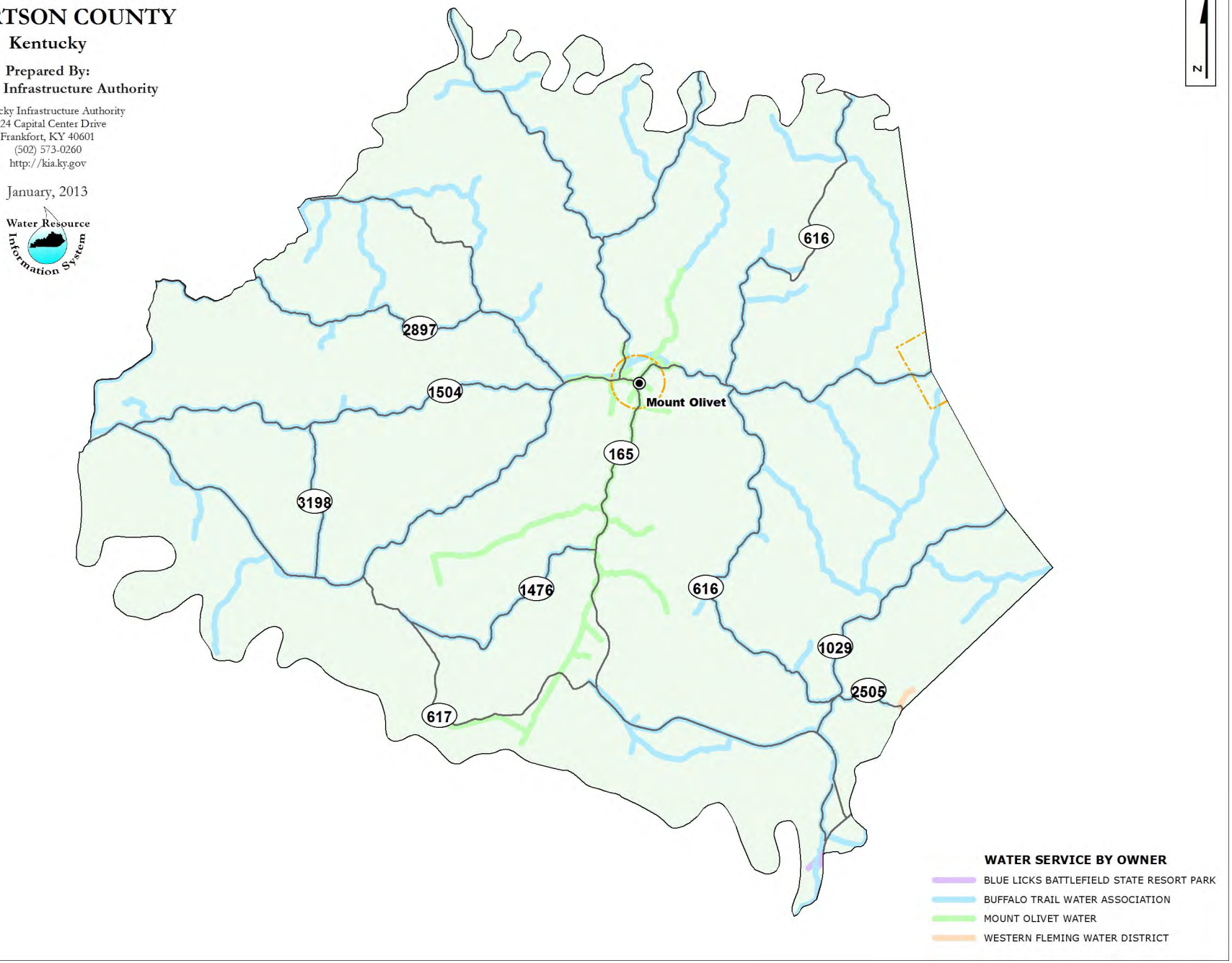
PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY1010297	Mount Olivet Water	Robertson	446	213
KY0810046	Buffalo Trail Water Association	Mason	1,821	872
		Totals:	2,267	1,085

WATER SERVICE AREAS
ROBERTSON COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

Kentucky Infrastructure Authority
1024 Capital Center Drive
Frankfort, KY 40601
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http://kia.ky.gov

January, 2013



System Summary for Mount Olivet Water

PWSID	KY1010297	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	2	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$43.23 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	$43.23 per 4,000 gallons.	Total Connections	256
Residential Customers	219	Total Produced (MG)	-
Commercial Customers	21	Total Purchased (MG)	14.255
Institutional Customers	-	Total Inside Usage (MG)	12.629
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	1	Estimated Pct. Water Loss	11%

Total Distribution System Line Length = 19.27 miles (Distribution: 19.27 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Mount Olivet Water

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21201014	Mt. Olivet Water Upgrade-Waterworks Rd/KY 617/KY 165 S	6-10 Years	Not Funded	$370,000	Robertson	14	3

Cumberland Valley Area Development District (CVADD)

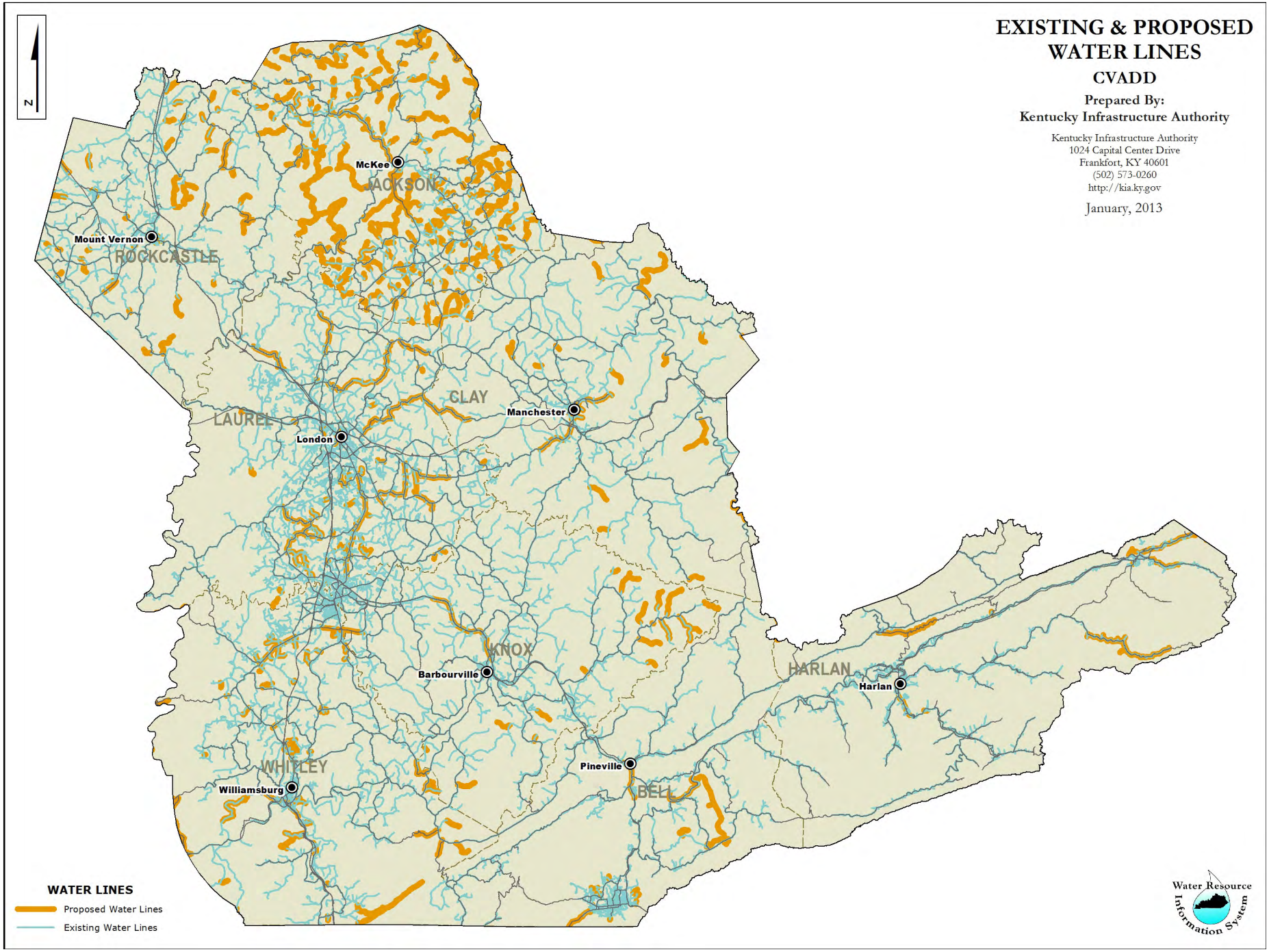


- 2010 census population of 236,618 (104,865 households) with 97% serviceable.
- Projected 2020 population of 237,501 (change of 883).
- 4,526.22 miles of existing water lines.
- 152.00 miles of line extensions proposed in the next 10 years.
- 67.00 miles of line rehabilitation proposed in the next 10 years.
- 46.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $74,328,089.
- Estimated funding needs for projects from 6 to 10 years: $12,409,398.
- Average age of structures: water treatment plants is 35 years; water tanks is 25 years.
- Total number of interconnected systems is 37.
- 27 miles of asbestos concrete pipe currently in use.
- 963 miles of water lines less than 15 years old.
- 1,904 miles of water lines between 15 and 30 years old.
- 606 miles of water lines between 31 and 50 years old.
- 219 miles of water lines between 51 and 70 years old.
- 44 miles of water lines greater than 70 years old.

Cumberland Valley Area Development District has a 2010 census population count of 236,618 (104,865 households) with a projected 2020 population count of 237,501 (97,085 households). Public water is currently available to approximately 97 percent of the district's households based on 2010 census counts. Over the next ten years approximately 10,605 serviceable households will be added through the construction of 152.00 miles of water line extensions and approximately 151,880 instances of improved service through the rehabilitation of 67.00 miles of existing water lines and other appurtenances. 46.00 miles of transmission lines are also proposed within this district.

County Summary for Cumberland Valley Area Development District

County Name	2010 Population	2010 Households	2020 Population	2020 Households	Serviceable Households	Percent Serviceable	Planned Cost 0 to 10 Years
Bell	28,691	13,154	27,648	11,714	12,853	98%	$ 11,568,978
Clay	21,730	8,875	20,289	7,421	8,355	94%	$ 10,095,200
Harlan	29,278	13,513	26,099	10,856	12,947	96%	$ 5,987,809
Jackson	13,494	6,523	13,771	5,961	6,101	94%	$ 8,491,410
Knox	31,883	14,485	32,132	13,362	14,141	98%	$ 8,270,750
Laurel	58,849	25,446	64,713	26,415	25,255	99%	$ 22,169,417
Rockcastle	17,056	7,703	17,593	7,308	7,424	96%	$ 9,656,676
Whitley	35,637	15,166	35,256	14,048	14,659	97%	$ 10,497,247
Totals	**236,618**	**104,865**	**237,501**	**97,085**	**101,735**	**97%**	**$ 86,737,487**


EXISTING & PROPOSED
WATER LINES
CVADD
Prepared By:
Kentucky Infrastructure Authority
Kentucky Infrastructure Authority
1024 Capital Center Drive
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http://kia.ky.gov
January, 2013
N
McKee
JACKSON
Mount Vernon
ROCKCASTLE
CLAY
Manchester
LAUREL
London
KNOX
Barbourville
HARLAN
Harlan
WHITLEY
Williamsburg
Pineville
BELL
WATER LINES
Proposed Water Lines
Existing Water Lines
Water Resource Information System

Community Water Systems in Cumberland Valley Area Development District County

Note: Serviceable counts include households outside the area development district.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0070353	Pineville Water System	Bell	15,609	7,060
KY0070282	Water Service Corporation of Kentucky	Bell	12,022	5,726
KY0260737	Manchester Water Works	Clay	13,187	5,701
KY0260266	North Manchester Water Association Inc	Clay	6,657	2,282
KY0480265	BMUD - Ages/Coxton	Harlan	1,019	448
KY0480277	BMUD - Dayhoit	Harlan	1,960	915
KY0480341	BMUD - Green Hills	Harlan	1,377	621
KY0480603	BMUD - Kenvir	Harlan	758	331
KY0480498	BMUD - Louellen	Harlan	785	380
KY0480650	BMUD - Rosspoint	Harlan	1,823	851
KY0480461	BMUD - Sukey Ridge	Harlan	790	369
KY0480572	BMUD - Wallins	Harlan	1,670	761
KY0480565	Cawood Water District	Harlan	4,516	1,974
KY0483727	Cawood Water District - Pathfork	Harlan	486	231
KY0480028	City of Benham	Harlan	758	398
KY0480262	City of Lynch	Harlan	825	490
KY0483458	Coap, Inc.	Harlan	73	31
KY0480092	Cumberland Municipal Water Works	Harlan	3,551	1,724
KY0480125	Evarts Municipal Water Plant	Harlan	3,409	1,396
KY0480178	Harlan Municipal Water Works	Harlan	4,281	2,048
KY0550784	City of McKee	Jackson	845	446
KY0550209	Jackson County Water Association Inc	Jackson	11,656	5,538
KY0610016	Barbourville Utility Commission	Knox	15,846	7,072
KY0610110	Knox County Utility Commission	Knox	7,849	3,768
KY0630797	East Laurel Water District	Laurel	12,979	5,485
KY0630238	Laurel Water District #2	Laurel	14,677	6,151
KY0630255	London Utility Commission	Laurel	9,161	4,159
KY0630451	West Laurel Water Association	Laurel	12,265	5,274
KY0630477	Wood Creek Water District	Laurel	11,746	5,130
KY1020889	City of Brodhead	Rockcastle	1,512	680
KY1020299	City of Mount Vernon	Rockcastle	4,319	1,991
KY1020288	Eastern Rockcastle County Water Association	Rockcastle	1,590	783
KY1020253	Livingston Municpal Water Works	Rockcastle	376	194
KY1020891	Western Rockcastle Water Association	Rockcastle	10,733	4,731
KY1180085	Corbin Utilities Commission	Whitley	14,916	6,852
KY1180093	Cumberland Falls Highway Water District	Whitley	8,909	3,694
KY1180468	Whitley County Water District #1	Whitley	3,322	1,411
KY1180962	Whitley County Water District #2	Whitley	4,891	2,145
KY1180999	Whitley County Water District #3	Whitley	2,934	1,245
KY1183728	Whitley County Water District - 92 West	Whitley	434	188
KY1180471	Williamsburg Municipal WTP	Whitley	5,123	1,925
		Totals:	231,639	102,599

Cumberland Valley Area Development District
Regional Water Needs Assessment

Primary Need: **Extend Services to Unserved Areas**
Secondary Need: **Improve Security Risks**

Discussion of Area Development District Needs:

The Cumberland Valley Area Water Management Planning Council held meetings at the county level to assess current and future water needs in the region. Most of those water needs are described in project profiles, but information on potential growth areas (subdivisions) is not available. During the review it was noted that repair and replacing aging infrastructure is common need in the entire region while extending lines to unserved areas is not a need in Laurel and a few other counties. All customers in those counties have access to public water if needed. Counties with unserved customers include: Bell County 400, Jackson County 619, Harlan County 35, and Knox Count 150 customers and Rockcastle county 13 customes. Other needs in the region are water storage, regionalization, source protection, improved security , economic stimulation and meeting regulatory requirement.

Repair or replace aging infrastructure, remain a major need in the Cumberland Valley ADD region. That need is reflected by the number of proposed projects in the database. Extending lines to unserved customers is the primary need in the region because of the Council's goal to extend lines to unserved households by 2020. Many miles of older lines have been replaced since 2001 when the planning process began, but some line connections installed before 1930 are still in use. Cumberland Fall Stake Park in Whitley County has more older lines than any other utility. The Park is owned by the State of Kentucky and cannot propose and submit project through the Water Management Planning Council like other utilities. As such no line replacement has taken place. The water management planning council is working hard to ensure that all aging infrastructure is replaced and unserved households have access to public water by the year 2020.

Description and Determination of Planning Units:

The Cumberland Valley Area Development District is divided into eight planning units that are based on the eight counties in the Cumberland Valley Area. The planning units are: Bell County, Clay County, Harlan County, Jackson County, Knox County, Laurel County, Rockcastle County, and Whitley County.

In the Bell County planning unit, there are two water utilities (Water Service Corporation of Kentucky and Pineville Water System) that serve approximately 12,853 households.

The City of Manchester and the North Manchester are the water utilities in the Clay County planning unit and serve approximately 8,355 households.

The Harlan County planning unit is comprised of seven utilities (Black Mountain Utility District, Cawood Water District, City of Benham, Cumberland Municipal Water Works, Evarts Municipal Water Plant, Harlan Municipal Water Works, and the City of Lynch) that serve approximately 12,947 households.

The City of McKee and the Jackson County Water Association are the water utilities in the Jackson County planning unit and serve approximately 6,101 households.

The Knox County planning unit has two water utilities (Barbourville Utility Commission and Knox county Utility Commission) that serve approximately 14,141 households.

The Laurel County planning unit has five water utilities (London Utility Commission, Corbin Utilities Commission, Laurel County Water District #2, West Laurel Water Association, and Wood Creek Water District) that serve approximately 25,255 households.

The Rockcastle County planning unit serves approximately 7,424 households with five water utilities (City of Brodhead, Livingston Municipal Water Works, City of Mount Vernon, East Laurel Water Association, and Western Rockcastle County Water Association).

The City of Williamsburg, Corbin Utilities Commission, Cumberland Falls Highway Water District, and the Whitley County Water District are the water utilities in the Whitley County planning unit and serves approximately 14,659 households.

Cumberland Valley Area Development District
Project Ranking Methodology

The annual ranking in the Cumberland Valley area begins with a series of county-wide meetings comprised of all the water and sewer utilities in the county where the meeting is taking place. Each utility present decides which of their projects is to be ranked and determines the importance of those for themselves. The county ranking process is based on a consensus decision by the members present at the meeting.

While the county rankings are based on a consensus, the regional ranking process uses a quantitative points system to determine the importance of each project ranked at the county level. The points given to each project fall within 7 categories: Project Type, Compliance, Financial, Project Status, County Ranking, Water Loss, and Regional Importance.

Project Type

A.	Elimination of Public Water System (PWS) through a merger	25
B.	Elimination of a water treatment plant through an interconnection.	23
C.	Construction of a new water treatment plant for regional provider.	20
D.	Construction of a supplemental potable/raw water supply	17
E.	Rehabilitation and/or replacement of aging infrastructure or for hydraulic necessity	15
F.	Construction of a new water treatment plant or expansion	15
G.	Construction of a new water storage tank	10
H.	Extension of Service to Unserved Households	
a.	9+ households per mile	20
b.	7-8 households per mile	19
c.	5-6 households per mile	18
d.	3-4 households per mile	15
e.	1-2 households per mile	10

Compliance with Enforcement Action

	Is the project necessary to achieve full or partial compliance with a court order, agreed order, or a judicial or administrative consent decree?	20

Financial

A.	Documented financing plan in Project Profile	10
B.	Utility service area has a MHI less than $32,958	20
C.	Utility service area with a MHI between $41,197 and $32,959	10

Project Status

A.	Estimated engineer's budget complete	5
B.	Estimated bid date and construction start date	5

County Ranking

A.	Number one ranked project	24
B.	Number two ranked project	20
C.	Number three ranked project	16
D.	Number four ranked project	14
E.	Number five ranked project	12

Water Loss

A.	Utility has a water loss percentage less than 15%	20
B.	Utility has a water loss percentage between 15% to 25%	15
C.	Utility has a water loss percentage between 25% to 35%	10

Regional Importance

A project can be awarded points at the discretion of the regional water management council.
No more than thirty points can be awarded by the council to water projects in the regional ranking.

Project Rankings For Cumberland Valley Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21013918	Pineville: WTP Expansion Project	3-5 Years	Not Funded	$3,214,030	Bell	1	1
WX21235002	CFHWYWD - Line Replacement and Reinforcement	3-5 Years	Partially Funded	$1,723,000	Whitley	2	3
WX21203006	Brodhead: Waterline Replacement and Upgrade	3-5 Years	Not Funded	$1,136,000	Rockcastle	3	4
WX21051005	Water Tank Project	0-2 Years	Not Funded	$1,700,000	Clay	4	1
WX21121001	Barbourville - Knox County Regionalization	3-5 Years	Not Funded	$3,000,000	Knox	5	1
WX21235004	Knox County Utility Commission - Whitley County Line Extension	3-5 Years	Not Funded	$420,000	Whitley	6	2
WX21095004	Raw Water/WTP Rehab	3-5 Years	Not Funded	$350,000	Harlan	7	1
WX21109003	Jackson County Water Association - Water Line Extensions Phase I	3-5 Years	Not Funded	$685,960	Jackson	8	1
WX21235434	Whitley County: Water System Improvements	3-5 Years	Not Funded	$937,500	Whitley	9	1
WX21203005	Mount Vernon - Phase #3 - Water Treatment Plant Improvements	3-5 Years	Not Funded	$800,000	Rockcastle	10	1
WX21095670	City of Cumberland 10 Inch Waterline Upgrade	0-2 Years	Not Funded	$973,809	Harlan	11	3
WX21121002	Remaining balance of WX21121532	3-5 Years	Unknown	$0	Knox	12	3
WX21121006	Barbourville - KY 1527 Waterline Replacement	0-2 Years	Not Funded	$279,250	Knox	13	2
WX21109004	Jackson County Water Association - Water Line Extensions Phase II	6-10 Years	Not Funded	$680,450	Jackson	14	2
WX21203558	Western Rockcastle Water Association - Hummel Road Water Line Extension	3-5 Years	Not Funded	$291,000	Rockcastle	15	5
WX21125012	Hawk Creek Water Line Replacement	3-5 Years	Not Funded	$917,674	Laurel	16	2
WX21203007	Water Pump Replacement & Repairs	3-5 Years	Not Funded	$30,000	Rockcastle	17	2
WX21125007	Bakersfield Subdivision Water Line Upgrade Project	3-5 Years	Not Funded	$179,693	Laurel	18	1
WX21125015	HWY 1006 Water Line Extension Project	3-5 Years	Not Funded	$271,763	Laurel	19	4
WX21051008	Waterline Extensions in Clay County	3-5 Years	Not Funded	$900,000	Clay	20	2
WX21051006	Water Meter Replacement	3-5 Years	Not Funded	$1,000,000	Clay	21	5
WX21095003	Cumberland Water System Improvements	3-5 Years	Not Funded	$1,664,000	Harlan	22	5
WX21125009	Meadowlane Subdivision Water Line Extension Project	3-5 Years	Not Funded	$198,662	Laurel	23	5
WX21210139	Pmria- Waterline Ext. to Proposed Industrial Park	0-2 Years	Not Funded	$6,500,000	Bell	24	3
WX21013920	Pineville: Browns Creek Cubbage Hill	0-2 Years	Over Funded	$1,650,000	Bell	25	2
WX21121004	Barbourville - Wal-Mart Tank Replacement	0-2 Years	Not Funded	$666,000	Knox	26	4
WX21051010	New Water Meters	3-5 Years	Not Funded	$62,000	Clay	27	3
WX21203004	Livingston - New Master Meter	0-2 Years	Unknown	$0	Rockcastle	28	3
WX21051007	Raw Water Pump Replacement - Goose Creek Intake Phase II	3-5 Years	Not Funded	$50,000	Clay	29	4
WX21125005	Parker Road to West KY 80 Waterline Extension	0-2 Years	Not Funded	$334,960	Laurel	30	3
			Total Cost:	**$30,615,751**			

Bell County

- 2010 census population of 28,691 (13,154 households) with 98% serviceable.
- Projected 2020 population of 27,648 (change of -1,043).
- Bell County has 404.33 miles of existing water lines.
- 15.00 miles of line extensions proposed in the next 10 years.
- 3.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $9,714,030.
- Estimated funding needs for projects from 6 to 10 years: $1,854,948.



Bell County has a 2010 census population count of 28,691 (13,154 households) with a projected 2020 population count of 27,648 (11,714 households). Public water is currently available to approximately 98 percent of the county's households based on 2010 census counts. Over the next ten years approximately 1 serviceable households will be added through the construction of 15.00 miles of water line extensions and approximately 1,216 instances of improved service through the rehabilitation of 3.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Bell County Fiscal Court	1	$6,500,000	1	-	15.00	-	-
Pineville Utility Commission	2	$5,068,978	-	1,216	-	3.00	-
Totals:	**3**	**$11,568,978**	**1**	**1,216**	**15.00**	**3.00**	**-**

Community Drinking Water Systems in Bell County

Note: Serviceability counts are for households within Bell county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0070353	Pineville Water System	Bell	15,380	6,958
KY0070282	Water Service Corporation of Kentucky	Bell	12,022	5,726
KY0610110	Knox County Utility Commission	Knox	355	158
		Totals:	27,757	12,842

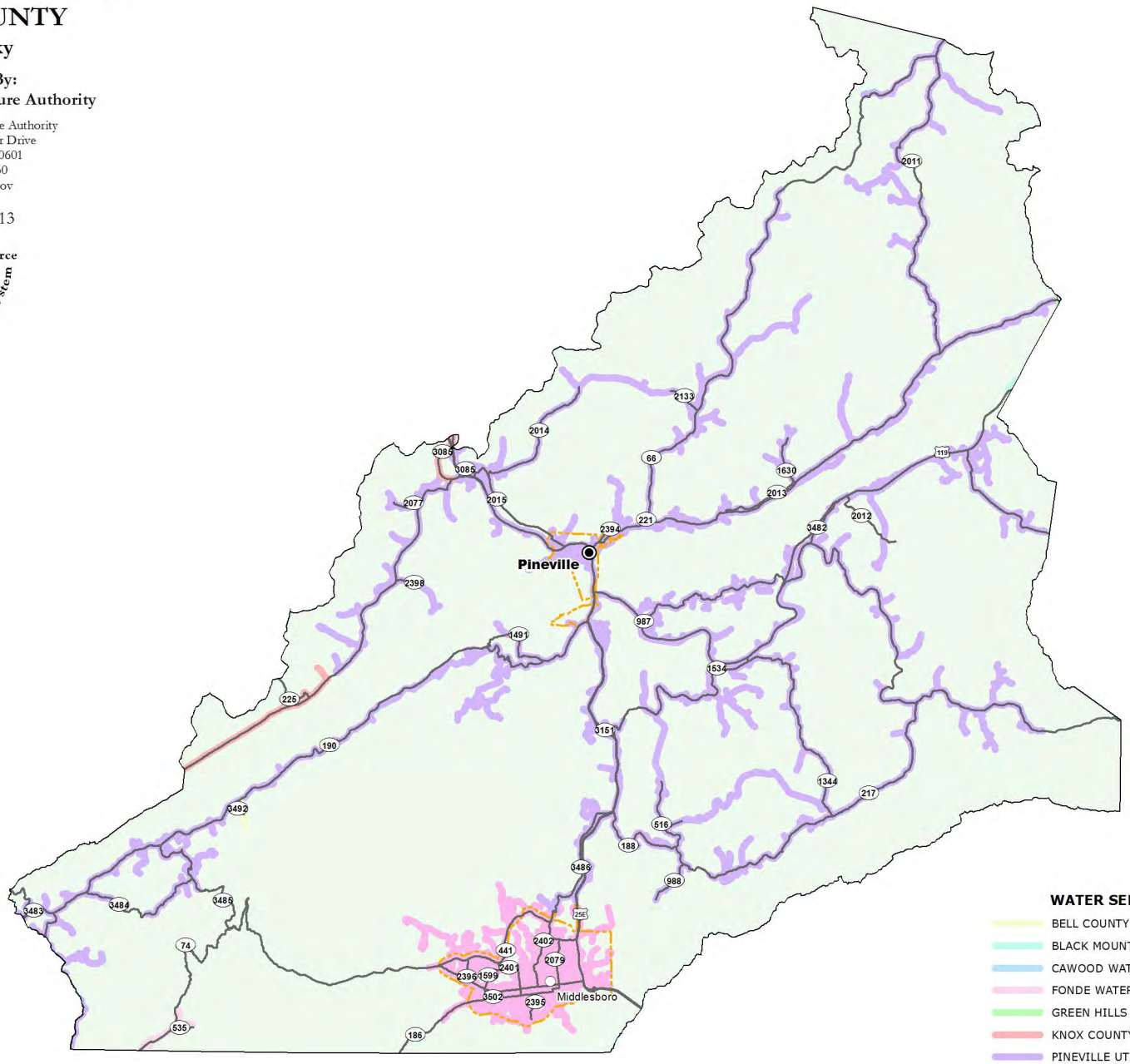
WATER SERVICE AREAS
BELL COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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January, 2013

Water Resource Information System



System Summary for Bell County Forestry Camp

PWSID	KY0070729	Treats Water	Yes, 1 plant with total capacity of 0.086 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	State Agency	Groundwater Source	No
Employees	5	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	15
Residential Customers	350	Total Produced (MG)	21.782
Commercial Customers	-	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	21.582
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	1%
Total Distribution System Line Length = 0.63 miles (Distribution: 0.63 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Bell County Forestry Camp

System Summary for Kettle Island Water System

PWSID	KY0070325	Treats Water	No
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Private Non-Profit	Groundwater Source	No
Employees	-	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	No
Outside Mun. Cost	-	Total Connections	
Residential Customers	-	Total Produced (MG)	-
Commercial Customers	-	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	-
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	
Total Distribution System Line Length = 0.00 miles (Distribution: 0.00 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Kettle Island Water System

System Summary for Pineville - Fonde Water System

PWSID	KY0073691	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Municipal Utility Board or Commission	Groundwater Source	No
Employees	22	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	No
Outside Mun. Cost	$44.33 per 4,000 gallons.	Total Connections	
Residential Customers	25	Total Produced (MG)	-
Commercial Customers	-	Total Purchased (MG)	1.029
Institutional Customers	-	Total Inside Usage (MG)	0.800
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	22%
Total Distribution System Line Length = 0.00 miles (Distribution: 0.00 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Pineville - Fonde Water System

System Summary for Pineville Water System

PWSID	KY0070353	Treats Water	Yes, 1 plant with total capacity of 4.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Municipal Utility Board or Commission	Groundwater Source	No
Employees	22	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 3 purchasers.
Inside Mun. Cost	$34.62 per 4,000 gallons.	Storage Capacity	Yes, 27 tanks with total capacity of 3.000 MG.
Outside Mun. Cost	$44.33 per 4,000 gallons.	Total Connections	5,396
Residential Customers	5,234	Total Produced (MG)	916.690
Commercial Customers	162	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	664.346
Industrial Customers	-	Total Wholesale Sold (MG)	55.678
Wholesale Customers	3	Estimated Pct. Water Loss	21%
Total Distribution System Line Length = 312.34 miles (Distribution: 312.34 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Pineville Water System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21013918	Pineville: WTP Expansion Project	3-5 Years	Not Funded	$3,214,030	Bell	1	1
WX21210139	Pmria- Waterline Ext. to Proposed Industrial Park	0-2 Years	Not Funded	$6,500,000	Bell	24	3
WX21013912	City of Pineville - A/C Waterline Replacement	6-10 Years	Not Funded	$1,854,948	Bell		

System Summary for Water Service Corporation of Kentucky

PWSID	KY0070282	Treats Water	Yes, 1 plant with total capacity of 3.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Investor-Owned (Private For-Profit)	Groundwater Source	No
Employees	10	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$19.20 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 3 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	-	Total Connections	6,085
Residential Customers	5,257	Total Produced (MG)	432.259
Commercial Customers	801	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	390.394
Industrial Customers	27	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	10%
Total Distribution System Line Length = 95.37 miles (Distribution: 95.07 miles, Transmission: 0.30 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Water Service Corporation of Kentucky

Clay County

- 2010 census population of 21,730 (8,875 households) with 94% serviceable.
- Projected 2020 population of 20,289 (change of -1,441).
- Clay County has 479.98 miles of existing water lines.
- 8.00 miles of line extensions proposed in the next 10 years.
- 21.00 miles of line rehabilitation proposed in the next 10 years.
- 4.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $6,640,700.
- Estimated funding needs for projects from 6 to 10 years: $3,454,500.



Clay County has a 2010 census population count of 21,730 (8,875 households) with a projected 2020 population count of 20,289 (7,421 households). Public water is currently available to approximately 94 percent of the county's households based on 2010 census counts. Over the next ten years approximately 3,347 serviceable households will be added through the construction of 8.00 miles of water line extensions and approximately 2,164 instances of improved service through the rehabilitation of 21.00 miles of existing water lines and other appurtenances. 4.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Booneville	1	$252,000	1	-	-	-	-
City of Manchester	5	$6,154,500	3,281	1,141	-	19.00	-
Clay County Fiscal Court	1	$900,000	50	-	7.00	-	-
East Laurel Water District	1	$2,200,000	-	-	-	-	4.00
North Manchester Water Association Inc	2	$588,700	15	1,023	1.00	2.00	-
Totals:	**10**	**$10,095,200**	**3,347**	**2,164**	**8.00**	**21.00**	**4.00**

Community Drinking Water Systems in Clay County

Note: Serviceability counts are for households within Clay county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0260737	Manchester Water Works	Clay	13,162	5,687
KY0260266	North Manchester Water Association Inc	Clay	6,629	2,267
KY0550209	Jackson County Water Association Inc	Jackson	30	15
KY0630797	East Laurel Water District	Laurel	795	356
KY0660204	Hyden Leslie Co Water District	Leslie	30	19
KY0950036	Booneville Water and Sewer	Owsley	22	11
		Totals:	20,668	8,355

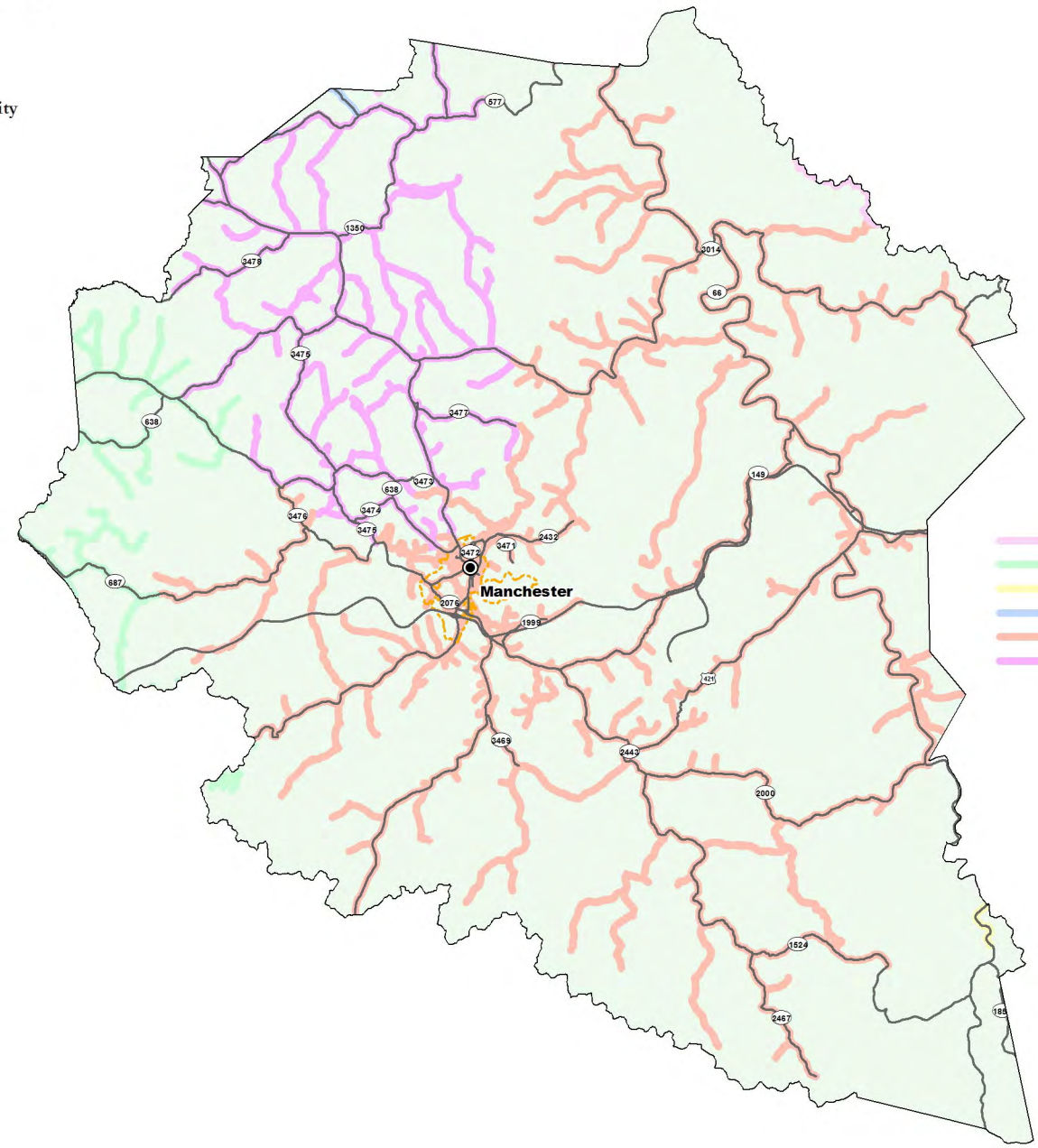
WATER SERVICE AREAS
CLAY COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

Kentucky Infrastructure Authority
1024 Capital Center Drive
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January, 2013

Water Resource Information System



WATER SERVICE BY OWNER

- BOONEVILLE WATER AND SEWER
- EAST LAUREL WATER DISTRICT
- HYDEN LESLIE CO WATER DISTRICT
- JACKSON COUNTY WATER ASSOCIATION INC
- MANCHESTER WATER WORKS
- NORTH MANCHESTER WATER ASSOCIATION INC

System Summary for Manchester Water Works

PWSID	KY0260737	Treats Water	Yes, 1 plant with total capacity of 3.200 MGD.
System Type	Community	Surface Source	Yes, 2 sources.
Owner Type	Incorporated City	Groundwater Source	Yes, 1 source.
Employees	26	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$11.40 per 4,000 gallons.	Storage Capacity	Yes, 8 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	$18.10 per 4,000 gallons.	Total Connections	4,202
Residential Customers	7,592	Total Produced (MG)	693.500
Commercial Customers	113	Total Purchased (MG)	17.938
Institutional Customers	-	Total Inside Usage (MG)	366.052
Industrial Customers	-	Total Wholesale Sold (MG)	153.309
Wholesale Customers	1	Estimated Pct. Water Loss	27%

Total Distribution System Line Length = 321.97 miles (Distribution: 316.89 miles, Transmission: 5.09 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Manchester Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21051005	Water Tank Project	0-2 Years	Not Funded	$1,700,000	Clay	4	1
WX21051008	Waterline Extensions in Clay County	3-5 Years	Not Funded	$900,000	Clay	20	2
WX21051006	Water Meter Replacement	3-5 Years	Not Funded	$1,000,000	Clay	21	5
WX21051004	High Service Line Replacement	6-10 Years	Not Funded	$1,510,000	Clay		
WX21051003	Downtown Water Line Replacement	6-10 Years	Not Funded	$1,264,500	Clay		
WX21125453	East Laurel: Hwy 229, Hwy 830 & Hwy 1189 Reinforcements	3-5 Years	Not Funded	$1,069,200	Laurel		
WX21051002	Horse Creek Asbestos Water Line Replacement	6-10 Years	Not Funded	$680,000	Clay		

System Summary for North Manchester Water Association Inc

PWSID	KY0260266	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water Association	Groundwater Source	No
Employees	5	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$30.44 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 3 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	1,922
Residential Customers	1,922	Total Produced (MG)	-
Commercial Customers	-	Total Purchased (MG)	153.309
Institutional Customers	-	Total Inside Usage (MG)	102.287
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	33%

Total Distribution System Line Length = 117.31 miles (Distribution: 117.31 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for North Manchester Water Association Inc

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21051008	Waterline Extensions in Clay County	3-5 Years	Not Funded	$900,000	Clay	20	2
WX21051010	New Water Meters	3-5 Years	Not Funded	$62,000	Clay	27	3
WX21051202	North Manchester Water Association Line Extension & Line Upgrade	3-5 Years	Not Funded	$526,700	Clay		6

Harlan County

- 2010 census population of 29,278 (13,513 households) with 96% serviceable.
- Projected 2020 population of 26,099 (change of -3,179).
- Harlan County has 433.20 miles of existing water lines.
- 3.00 miles of line extensions proposed in the next 10 years.
- 2.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $5,987,809.
- There are no projects planned from 6 to 10 years.



Harlan County has a 2010 census population count of 29,278 (13,513 households) with a projected 2020 population count of 26,099 (10,856 households). Public water is currently available to approximately 96 percent of the county's households based on 2010 census counts. Over the next ten years approximately 43 serviceable households will be added through the construction of 3.00 miles of water line extensions and approximately 7,940 instances of improved service through the rehabilitation of 2.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Black Mountain Utility District	1	$325,000	8	-	1.00	-	-
City of Cumberland	3	$4,387,809	-	4,686	-	2.00	-
City of Evarts	2	$625,000	-	2,854	-	-	-
City of Lynch	1	$500,000	-	400	-	-	-
Green Hills Water District	1	$150,000	35	-	2.00	-	-
Totals:	**8**	**$5,987,809**	**43**	**7,940**	**3.00**	**2.00**	**-**

Community Drinking Water Systems in Harlan County

Note: Serviceability counts are for households within Harlan county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0480265	BMUD - Ages/Coxton	Harlan	1,019	448
KY0480277	BMUD - Dayhoit	Harlan	1,952	912
KY0480341	BMUD - Green Hills	Harlan	1,371	619
KY0480603	BMUD - Kenvir	Harlan	758	331
KY0480498	BMUD - Louellen	Harlan	785	380
KY0480650	BMUD - Rosspoint	Harlan	1,823	851
KY0480461	BMUD - Sukey Ridge	Harlan	790	369
KY0480572	BMUD - Wallins	Harlan	1,670	761
KY0480565	Cawood Water District	Harlan	4,516	1,974
KY0483727	Cawood Water District - Pathfork	Harlan	483	230
KY0480028	City of Benham	Harlan	758	398
KY0480262	City of Lynch	Harlan	825	490
KY0483458	Coap, Inc.	Harlan	73	31
KY0480092	Cumberland Municipal Water Works	Harlan	3,479	1,694
KY0480125	Evarts Municipal Water Plant	Harlan	3,409	1,396
KY0480178	Harlan Municipal Water Works	Harlan	4,281	2,048
		Totals:	27,992	12,932

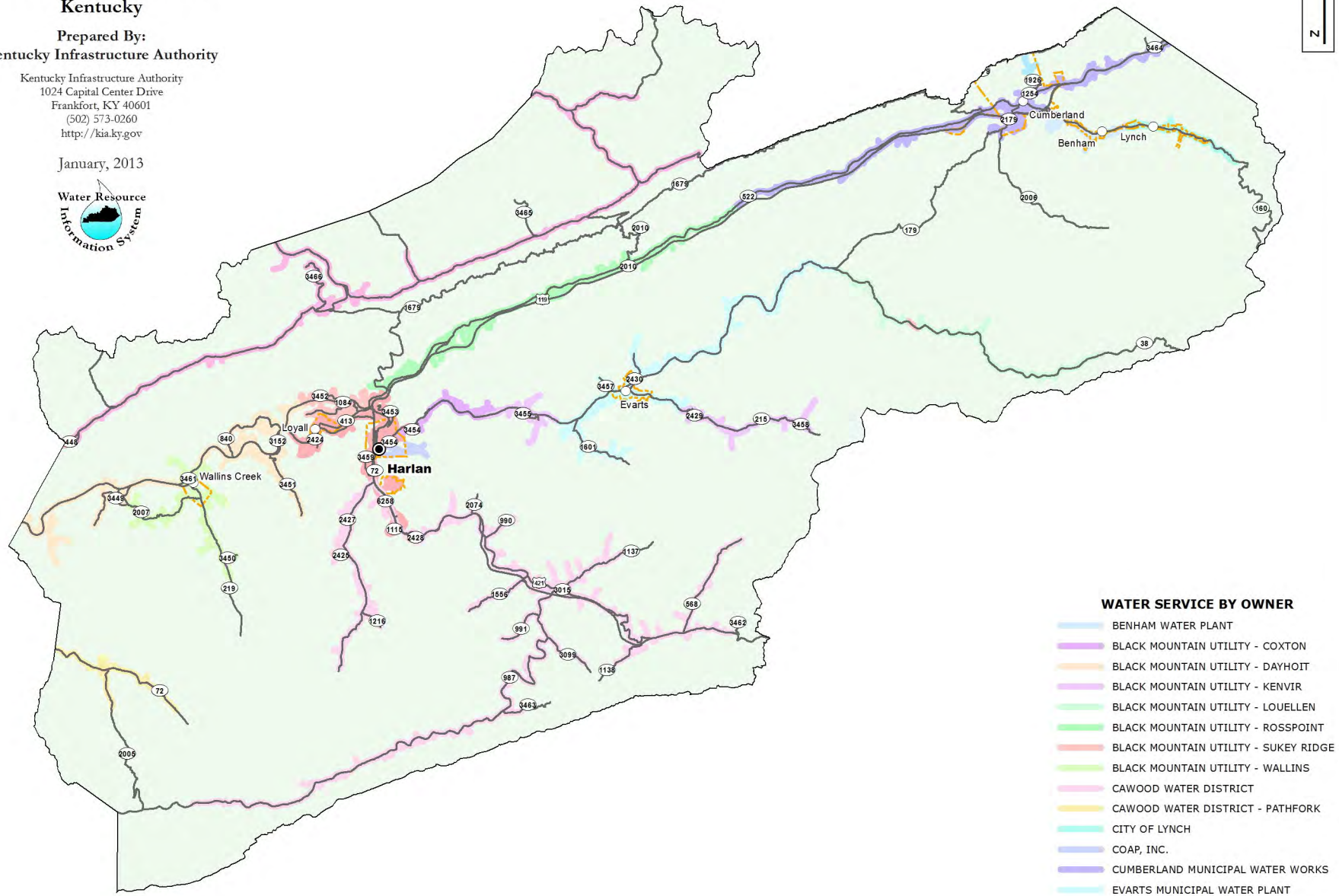
WATER SERVICE AREAS
HARLAN COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

Kentucky Infrastructure Authority
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January, 2013

Water Resource Information System



System Summary for BMUD - Ages/Coxton

PWSID	KY0480265	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	2	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	$36.76 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	120
Residential Customers	120	Total Produced (MG)	-
Commercial Customers	-	Total Purchased (MG)	21.470
Institutional Customers	-	Total Inside Usage (MG)	11.213
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	48%
Total Distribution System Line Length = 13.35 miles (Distribution: 13.35 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for BMUD - Ages/Coxton

System Summary for BMUD - Dayhoit

PWSID	KY0480277	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	9	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$36.76 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	649
Residential Customers	649	Total Produced (MG)	-
Commercial Customers	-	Total Purchased (MG)	76.180
Institutional Customers	-	Total Inside Usage (MG)	65.234
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	14%

Total Distribution System Line Length = 36.39 miles (Distribution: 36.39 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for BMUD - Dayhoit

System Summary for BMUD - Green Hills

PWSID	KY0480341	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	9	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$42.32 per 4,000 gallons.	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 5 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	503
Residential Customers	534	Total Produced (MG)	-
Commercial Customers	-	Total Purchased (MG)	39.484
Institutional Customers	-	Total Inside Usage (MG)	32.561
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	1	Estimated Pct. Water Loss	18%

Total Distribution System Line Length = 45.55 miles (Distribution: 45.55 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for BMUD - Green Hills

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21133031	Pine Mountain Water Study	3-5 Years	Not Funded	$125,000	Letcher		10
WX21095005	Woodard Br. Waterline Extension - Green Hills System Rehabilitat	0-2 Years	Not Funded	$325,000	Harlan		
WX21095604	Green Hills: Expansion Project	3-5 Years	Not Funded	$150,000	Harlan		

System Summary for BMUD - Kenvir

PWSID	KY0480603	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	2	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$30.27 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	379
Residential Customers	379	Total Produced (MG)	-
Commercial Customers	-	Total Purchased (MG)	17.333
Institutional Customers	-	Total Inside Usage (MG)	22.338
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	-29%
Total Distribution System Line Length = 8.66 miles (Distribution: 8.66 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for BMUD - Kenvir

System Summary for BMUD - Louellen

PWSID	KY0480498	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	9	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$30.27 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	185
Residential Customers	182	Total Produced (MG)	-
Commercial Customers	-	Total Purchased (MG)	12.451
Institutional Customers	-	Total Inside Usage (MG)	9.940
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	20%

Total Distribution System Line Length = 12.79 miles (Distribution: 12.79 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for BMUD - Louellen

System Summary for BMUD - Rosspoint

PWSID	KY0480650	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	4	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$36.76 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	615
Residential Customers	615	Total Produced (MG)	-
Commercial Customers	-	Total Purchased (MG)	48.726
Institutional Customers	-	Total Inside Usage (MG)	42.586
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	13%
Total Distribution System Line Length = 38.95 miles (Distribution: 38.95 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for BMUD - Rosspoint

System Summary for BMUD - Sukey Ridge

PWSID	KY0480461	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	9	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$36.76 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	246
Residential Customers	245	Total Produced (MG)	-
Commercial Customers	-	Total Purchased (MG)	37.673
Institutional Customers	-	Total Inside Usage (MG)	31.814
Industrial Customers	1	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	16%

Total Distribution System Line Length = 12.73 miles (Distribution: 12.73 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for BMUD - Sukey Ridge

System Summary for BMUD - Wallins

PWSID	KY0480572	Treats Water	Yes, 1 plant with total capacity of 0.120 MGD.
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	Yes, 1 source.
Employees	9	Wholesale Purchaser	No
Non-Municipal Cost	$36.76 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	676
Residential Customers	676	Total Produced (MG)	-
Commercial Customers	-	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	44.120
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	
Total Distribution System Line Length = 19.71 miles (Distribution: 19.42 miles, Transmission: 0.28 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for BMUD - Wallins

System Summary for Cawood Water District

PWSID	KY0480565	Treats Water	Yes, 1 plant with total capacity of 0.500 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	7	Wholesale Purchaser	No
Non-Municipal Cost	$34.40 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 5 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	1,635
Residential Customers	1,625	Total Produced (MG)	130.072
Commercial Customers	10	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	82.678
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	36%
Total Distribution System Line Length = 85.40 miles (Distribution: 85.40 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Cawood Water District

System Summary for Cawood Water District - Pathfork

PWSID	KY0483727	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	10	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$41.61 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	148
Residential Customers	157	Total Produced (MG)	-
Commercial Customers	-	Total Purchased (MG)	7.632
Institutional Customers	-	Total Inside Usage (MG)	6.154
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	19%

Total Distribution System Line Length = 7.73 miles (Distribution: 7.73 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Cawood Water District - Pathfork

System Summary for City of Benham

PWSID	KY0480028	Treats Water	Yes, 1 plant with total capacity of 0.300 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	3	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$32.30 per 4,000 gallons.	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$32.30 per 4,000 gallons.	Total Connections	356
Residential Customers	330	Total Produced (MG)	42.000
Commercial Customers	-	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	40.096
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	5%
Total Distribution System Line Length = 9.23 miles (Distribution: 9.23 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for City of Benham

System Summary for City of Lynch

PWSID	KY0480262	Treats Water	Yes, 1 plant with total capacity of 0.950 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	2	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$44.90 per 4,000 gallons.	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	323
Residential Customers	317	Total Produced (MG)	77.719
Commercial Customers	6	Total Purchased (MG)	-
Institutional Customers	1	Total Inside Usage (MG)	73.606
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	5%
Total Distribution System Line Length = 9.88 miles (Distribution: 8.45 miles, Transmission: 1.43 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for City of Lynch

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21095638	City of Lynch - Water Treatment Plant Rehabilitation	3-5 Years	Partially Funded	$500,000	Harlan		

System Summary for Coap, Inc.

PWSID	KY0483458	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Private Non-Profit	Groundwater Source	No
Employees	-	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	11
Residential Customers	-	Total Produced (MG)	-
Commercial Customers	-	Total Purchased (MG)	0.503
Institutional Customers	-	Total Inside Usage (MG)	-
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	100%

Total Distribution System Line Length = 2.25 miles (Distribution: 2.25 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Coap, Inc.

System Summary for Cumberland Municipal Water Works

PWSID	KY0480092	Treats Water	Yes, 1 plant with total capacity of 1.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	6	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$23.25 per 4,000 gallons.	Storage Capacity	Yes, 8 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	$28.05 per 4,000 gallons.	Total Connections	1,189
Residential Customers	1,082	Total Produced (MG)	191.136
Commercial Customers	107	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	63.190
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	67%

Total Distribution System Line Length = 48.07 miles (Distribution: 48.07 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Cumberland Municipal Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21095670	City of Cumberland 10 Inch Waterline Upgrade	0-2 Years	Not Funded	$973,809	Harlan	11	3
WX21095003	Cumberland Water System Improvements	3-5 Years	Not Funded	$1,664,000	Harlan	22	5
WX21095666	City of Cumberland Water Treatment Plant Upgrades (Was WX21095662)	0-2 Years	Not Funded	$1,750,000	Harlan		6

System Summary for Evarts Municipal Water Plant

PWSID	KY0480125	Treats Water	Yes, 1 plant with total capacity of 0.720 MGD.
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	Yes, 3 sources.
Employees	6	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 3 purchasers.
Inside Mun. Cost	$25.50 per 4,000 gallons.	Storage Capacity	Yes, 4 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$30.75 per 4,000 gallons.	Total Connections	1,450
Residential Customers	989	Total Produced (MG)	192.000
Commercial Customers	46	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	116.040
Industrial Customers	-	Total Wholesale Sold (MG)	38.338
Wholesale Customers	3	Estimated Pct. Water Loss	20%
Total Distribution System Line Length = 37.13 miles (Distribution: 37.13 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Evarts Municipal Water Plant

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21095004	Raw Water/WTP Rehab	3-5 Years	Not Funded	$350,000	Harlan	7	1
WX21095642	Raw Water Suppily Line for Evarts Water Plant	0-2 Years	Not Funded	$275,000	Harlan		

System Summary for Harlan Municipal Water Works

PWSID	KY0480178	Treats Water	Yes, 1 plant with total capacity of 2.900 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	12	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 5 purchasers.
Inside Mun. Cost	$23.65 per 4,000 gallons.	Storage Capacity	Yes, 5 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	$23.65 per 4,000 gallons.	Total Connections	2,150
Residential Customers	1,690	Total Produced (MG)	378.049
Commercial Customers	338	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	118.899
Industrial Customers	-	Total Wholesale Sold (MG)	175.998
Wholesale Customers	5	Estimated Pct. Water Loss	22%
Total Distribution System Line Length = 45.06 miles (Distribution: 44.75 miles, Transmission: 0.30 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Harlan Municipal Water Works

Jackson County

- 2010 census population of 13,494 (6,523 households) with 94% serviceable.
- Projected 2020 population of 13,771 (change of 277).
- Jackson County has 442.61 miles of existing water lines.
- 23.00 miles of line extensions proposed in the next 10 years.
- 1.00 miles of line rehabilitation proposed in the next 10 years.
- 8.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $7,810,960.
- Estimated funding needs for projects from 6 to 10 years: $680,450.



Jackson County has a 2010 census population count of 13,494 (6,523 households) with a projected 2020 population count of 13,771 (5,961 households). Public water is currently available to approximately 94 percent of the county's households based on 2010 census counts. Over the next ten years approximately 98 serviceable households will be added through the construction of 23.00 miles of water line extensions and approximately 2,667 instances of improved service through the rehabilitation of 1.00 miles of existing water lines and other appurtenances. 8.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of McKee	1	$1,825,000	-	250	1.00	-	-
Jackson County Water Association Inc	3	$6,666,410	98	2,417	22.00	1.00	8.00
Totals:	**4**	**$8,491,410**	**98**	**2,667**	**23.00**	**1.00**	**8.00**

Community Drinking Water Systems in Jackson County

Note: Serviceability counts are for households within Jackson county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0550784	City of McKee	Jackson	845	446
KY0550209	Jackson County Water Association Inc	Jackson	11,458	5,440
KY0260266	North Manchester Water Association Inc	Clay	28	15
KY0630477	Wood Creek Water District	Laurel	136	64
KY0950036	Booneville Water and Sewer	Owsley	65	34
KY1020288	Eastern Rockcastle County Water Association	Rockcastle	184	96
		Totals:	12,716	6,095

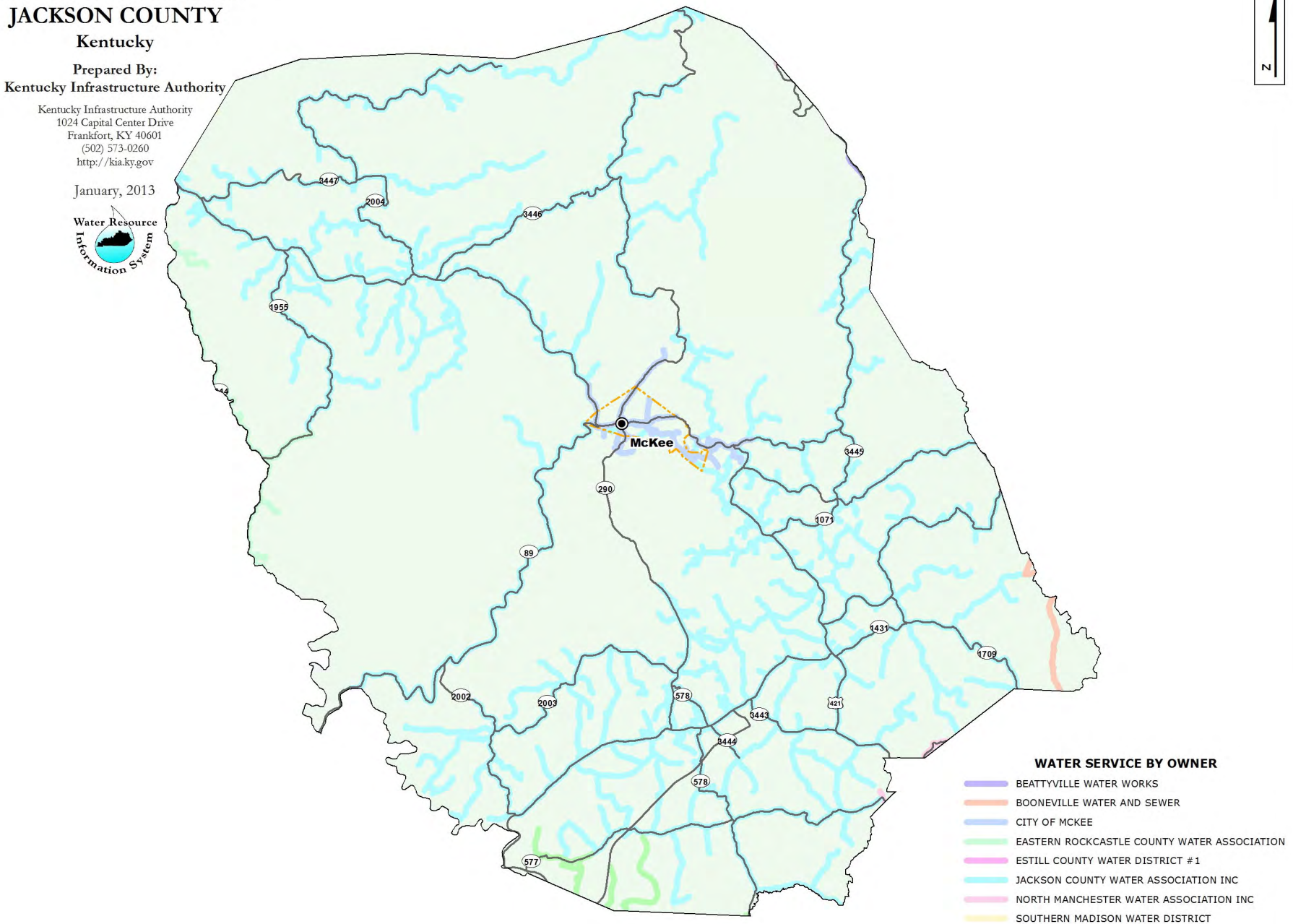
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January, 2013

Water Resource Information System



WATER SERVICE BY OWNER

- BEATTYVILLE WATER WORKS
- BOONEVILLE WATER AND SEWER
- CITY OF MCKEE
- EASTERN ROCKCASTLE COUNTY WATER ASSOCIATION
- ESTILL COUNTY WATER DISTRICT #1
- JACKSON COUNTY WATER ASSOCIATION INC
- NORTH MANCHESTER WATER ASSOCIATION INC
- SOUTHERN MADISON WATER DISTRICT
- WOOD CREEK WATER DISTRICT

System Summary for City of McKee

PWSID	KY0550784	Treats Water	Yes, 1 plant with total capacity of 0.302 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	4	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$30.00 per 4,000 gallons.	Storage Capacity	Yes, 4 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$36.00 per 4,000 gallons.	Total Connections	390
Residential Customers	273	Total Produced (MG)	53.098
Commercial Customers	79	Total Purchased (MG)	-
Institutional Customers	38	Total Inside Usage (MG)	28.770
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	46%
Total Distribution System Line Length = 17.30 miles (Distribution: 17.05 miles, Transmission: 0.25 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for City of McKee

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21109002	Downtown Water Storage Tank Replacement	0-2 Years	Not Funded	$1,825,000	Jackson		

System Summary for Jackson County Water Association Inc

PWSID	KY0550209	Treats Water	Yes, 1 plant with total capacity of 2.268 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Water Association	Groundwater Source	No
Employees	14	Wholesale Purchaser	No
Non-Municipal Cost	$39.80 per 4,000 gallons.	Wholesale Provider	Yes, to 4 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 10 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	4,531
Residential Customers	4,293	Total Produced (MG)	330.041
Commercial Customers	222	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	240.310
Industrial Customers	12	Total Wholesale Sold (MG)	25.049
Wholesale Customers	4	Estimated Pct. Water Loss	20%
Total Distribution System Line Length = 411.43 miles (Distribution: 396.33 miles, Transmission: 15.10 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Jackson County Water Association Inc

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21109003	Jackson County Water Association - Water Line Extensions Phase I	3-5 Years	Not Funded	$685,960	Jackson	8	1
WX21109004	Jackson County Water Association - Water Line Extensions Phase II	6-10 Years	Not Funded	$680,450	Jackson	14	2
WX21109722	Jackson County Water Association – Transmission Main from McKee to Sandgap and Morill Water Line Improvements	0-2 Years	Not Funded	$5,300,000	Jackson		

Knox County

- 2010 census population of 31,883 (14,485 households) with 98% serviceable.
- Projected 2020 population of 32,132 (change of 249).
- Knox County has 582.74 miles of existing water lines.
- 41.00 miles of line extensions proposed in the next 10 years.
- 3.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $7,040,750.
- Estimated funding needs for projects from 6 to 10 years: $1,230,000.



Knox County has a 2010 census population count of 31,883 (14,485 households) with a projected 2020 population count of 32,132 (13,362 households). Public water is currently available to approximately 98 percent of the county's households based on 2010 census counts. Over the next ten years approximately 41 serviceable households will be added through the construction of 41.00 miles of water line extensions and approximately 300 instances of improved service through the rehabilitation of 3.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Barbourville Utility Commission	3	$3,945,250	-	300	-	3.00	-
City of Corbin	1	$980,000	-	-	1.00	-	-
Knox County Fiscal Court	1	$2,777,500	40	-	40.00	-	-
Knox County Utility Commission	2	$568,000	1	-	-	-	-
Totals:	**7**	**$8,270,750**	**41**	**300**	**41.00**	**3.00**	**-**

Community Drinking Water Systems in Knox County

Note: Serviceability counts are for households within Knox county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0610016	Barbourville Utility Commission	Knox	15,842	7,072
KY0610110	Knox County Utility Commission	Knox	6,887	3,296
KY0630238	Laurel Water District #2	Laurel	2,397	958
KY1180085	Corbin Utilities Commission	Whitley	5,924	2,776
KY1180468	Whitley County Water District #1	Whitley	67	29
		Totals:	31,117	14,131

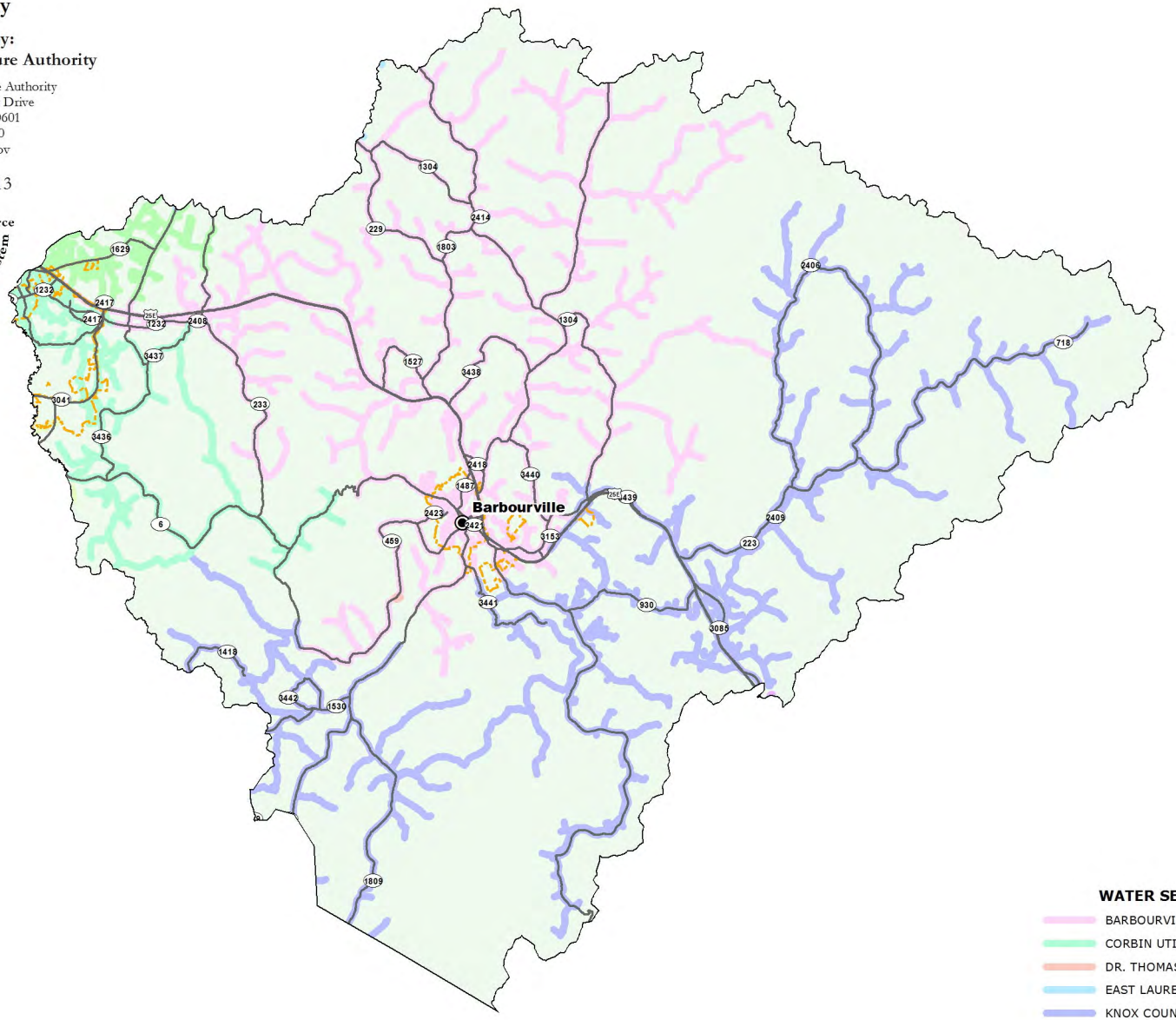
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January, 2013

Water Resource Information System



System Summary for Barbourville Utility Commission

PWSID	KY0610016	Treats Water	Yes, 1 plant with total capacity of 4.032 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Municipal Utility Board or Commission	Groundwater Source	No
Employees	24	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$21.21 per 4,000 gallons.	Storage Capacity	Yes, 10 tanks with total capacity of 3.000 MG.
Outside Mun. Cost	$28.68 per 4,000 gallons.	Total Connections	5,788
Residential Customers	5,234	Total Produced (MG)	626.150
Commercial Customers	546	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	423.123
Industrial Customers	7	Total Wholesale Sold (MG)	3.799
Wholesale Customers	1	Estimated Pct. Water Loss	32%

Total Distribution System Line Length = 270.97 miles (Distribution: 251.96 miles, Transmission: 19.01 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Barbourville Utility Commission

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21121001	Barbourville - Knox County Regionalization	3-5 Years	Not Funded	$3,000,000	Knox	5	1
WX21121006	Barbourville - KY 1527 Waterline Replacement	0-2 Years	Not Funded	$279,250	Knox	13	2
WX21121004	Barbourville - Wal-Mart Tank Replacement	0-2 Years	Not Funded	$666,000	Knox	26	4

System Summary for Knox County Utility Commission

PWSID	KY0610110	Treats Water	Yes, 1 plant with total capacity of 0.368 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	9	Wholesale Purchaser	Yes, from 3 providers.
Non-Municipal Cost	$34.66 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 9 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	2,766
Residential Customers	2,660	Total Produced (MG)	96.575
Commercial Customers	52	Total Purchased (MG)	96.391
Institutional Customers	-	Total Inside Usage (MG)	170.190
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	12%

Total Distribution System Line Length = 230.60 miles (Distribution: 230.60 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Knox County Utility Commission

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21121001	Barbourville - Knox County Regionalization	3-5 Years	Not Funded	$3,000,000	Knox	5	1
WX21235004	Knox County Utility Commission - Whitley County Line Extension	3-5 Years	Not Funded	$420,000	Whitley	6	2
WX21121532	Knox County - Water Projects	0-2 Years	Partially Funded	$2,777,500	Knox		
WX21121537	Knox: Water Line Extension In Whitley County	0-2 Years	Partially Funded	$318,000	Whitley		
WX21121550	Rehab of The Water Treatment Plant	6-10 Years	Not Funded	$250,000	Knox		

Laurel County

- 2010 census population of 58,849 (25,446 households) with 99% serviceable.
- Projected 2020 population of 64,713 (change of 5,864).
- Laurel County has 1,052.64 miles of existing water lines.
- 13.00 miles of line extensions proposed in the next 10 years.
- 14.00 miles of line rehabilitation proposed in the next 10 years.
- 34.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $22,098,417.
- Estimated funding needs for projects from 6 to 10 years: $71,000.



Laurel County has a 2010 census population count of 58,849 (25,446 households) with a projected 2020 population count of 64,713 (26,415 households). Public water is currently available to approximately 99 percent of the county's households based on 2010 census counts. Over the next ten years approximately 5,897 serviceable households will be added through the construction of 13.00 miles of water line extensions and approximately 131,241 instances of improved service through the rehabilitation of 14.00 miles of existing water lines and other appurtenances. 34.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Livingston	1	$1,096,000	-	300	-	-	3.00
East Laurel Water District	6	$7,015,200	10	51,500	2.00	7.00	13.00
Laurel County Water District #2	6	$1,380,282	5,872	4,985	4.00	4.00	-
London Utility Commission	3	$552,327	-	76	-	3.00	-
West Laurel Water Association Inc	7	$4,715,608	10	27,080	6.00	-	3.00
Wood Creek Water District	8	$7,410,000	5	47,300	1.00	-	15.00
Totals:	**31**	**$22,169,417**	**5,897**	**131,241**	**13.00**	**14.00**	**34.00**

Community Drinking Water Systems in Laurel County

Note: Serviceability counts are for households within Laurel county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0630797	East Laurel Water District	Laurel	12,168	5,123
KY0630238	Laurel Water District #2	Laurel	12,280	5,193
KY0630255	London Utility Commission	Laurel	9,161	4,159
KY0630451	West Laurel Water Association	Laurel	12,264	5,274
KY0630477	Wood Creek Water District	Laurel	11,610	5,066
KY1180085	Corbin Utilities Commission	Whitley	880	407
		Totals:	58,363	25,222

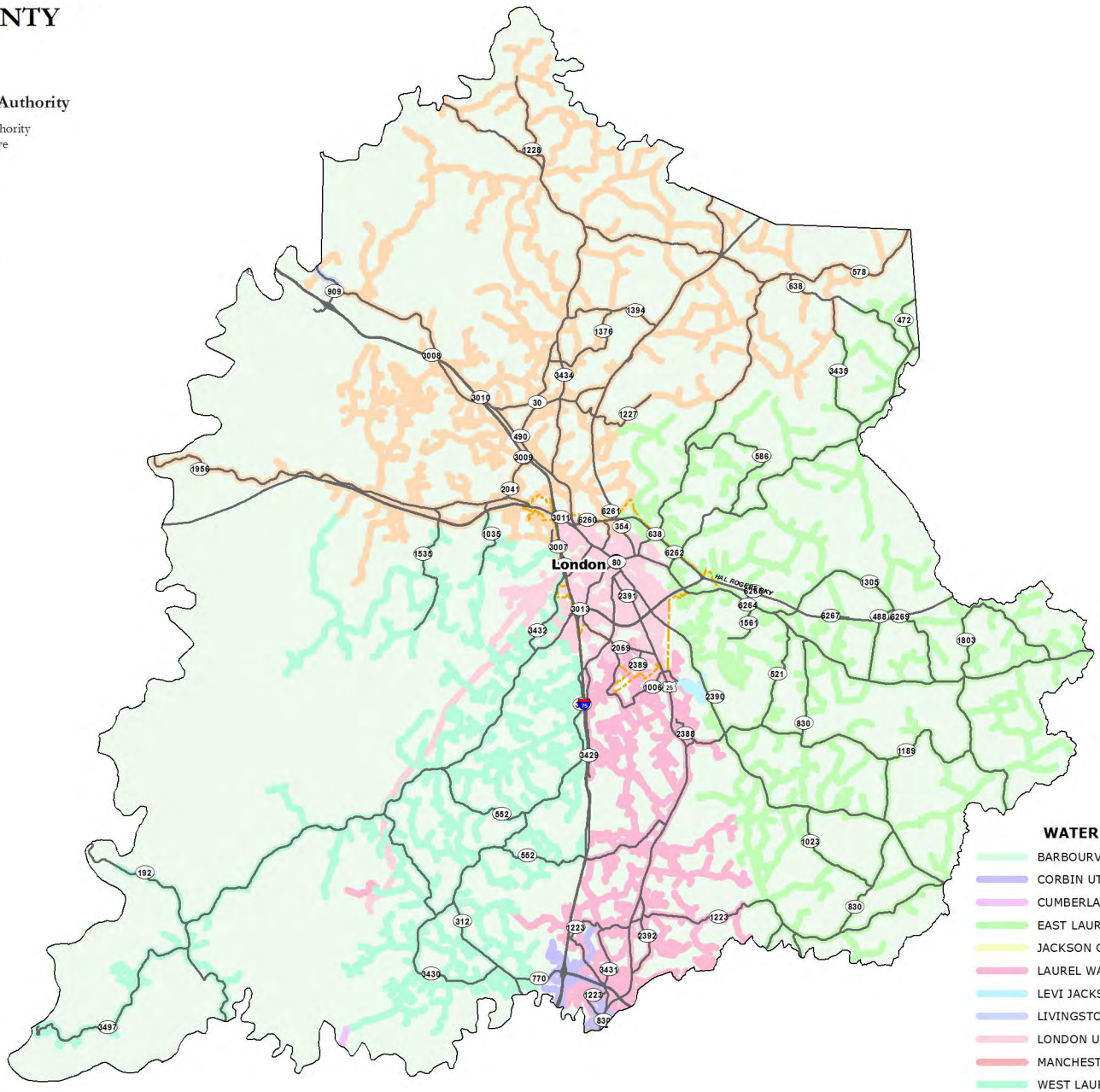
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January, 2013

Water Resource Information System



System Summary for East Laurel Water District

PWSID	KY0630797	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	-	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$31.50 per 4,000 gallons.	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 4 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	5,410
Residential Customers	5,161	Total Produced (MG)	-
Commercial Customers	248	Total Purchased (MG)	424.410
Institutional Customers	-	Total Inside Usage (MG)	389.179
Industrial Customers	-	Total Wholesale Sold (MG)	17.938
Wholesale Customers	1	Estimated Pct. Water Loss	4%

Total Distribution System Line Length = 294.43 miles (Distribution: 294.43 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for East Laurel Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21125010	East Laurel Water District - KY 80 / Apple Orchard Rd Transmission Main and Pump	3-5 Years	Not Funded	$3,475,000	Laurel		
WX21125452	East Laurel System Improvement to Clay County	3-5 Years	Not Funded	$2,200,000	Laurel		
WX21125453	East Laurel: Hwy 229, Hwy 830 & Hwy 1189 Reinforcements	3-5 Years	Not Funded	$1,069,200	Laurel		
WX21125564	East Laurel Water District - Generators	3-5 Years	Not Funded	$125,000	Laurel		
WX21125562	East Laurel - Roads Without Water Lines	3-5 Years	Not Funded	$75,000	Laurel		
WX21125460	East Laurel Water District - 1,000,000 Gallon Storage Tank #3	6-10 Years	Not Funded	$71,000	Laurel		

System Summary for Laurel Water District #2

PWSID	KY0630238	Treats Water	Yes, 1 plant with total capacity of 2.880 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	16	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$14.42 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 5 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	-	Total Connections	5,930
Residential Customers	5,543	Total Produced (MG)	510.420
Commercial Customers	346	Total Purchased (MG)	1.500
Institutional Customers	-	Total Inside Usage (MG)	434.170
Industrial Customers	9	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	15%
Total Distribution System Line Length = 189.09 miles (Distribution: 179.11 miles, Transmission: 9.99 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Laurel Water District #2

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21125007	Bakersfield Subdivision Water Line Upgrade Project	3-5 Years	Not Funded	$179,693	Laurel	18	1
WX21125015	HWY 1006 Water Line Extension Project	3-5 Years	Not Funded	$271,763	Laurel	19	4
WX21125009	Meadowlane Subdivision Water Line Extension Project	3-5 Years	Not Funded	$198,662	Laurel	23	5
WX21125013	Hammock-Foly-SR1223 Loop Lines Project	3-5 Years	Not Funded	$195,164	Laurel		6
WX21125553	Water System Extension Project	3-5 Years	Not Funded	$310,000	Laurel		
WX21125578	LCWD #2 WTP & Raw Water Pump Emergency Generators Project	3-5 Years	Not Funded	$225,000	Laurel		

System Summary for London Utility Commission

PWSID	KY0630255	Treats Water	Yes, 1 plant with total capacity of 3.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Municipal Utility Board or Commission	Groundwater Source	No
Employees	32	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$16.40 per 4,000 gallons.	Storage Capacity	Yes, 5 tanks with total capacity of 3.000 MG.
Outside Mun. Cost	$24.58 per 4,000 gallons.	Total Connections	3,936
Residential Customers	3,893	Total Produced (MG)	630.048
Commercial Customers	-	Total Purchased (MG)	-
Institutional Customers	36	Total Inside Usage (MG)	440.855
Industrial Customers	6	Total Wholesale Sold (MG)	1.500
Wholesale Customers	1	Estimated Pct. Water Loss	30%
Total Distribution System Line Length = 105.75 miles (Distribution: 94.15 miles, Transmission: 11.60 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for London Utility Commission

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21125005	Parker Road to West KY 80 Waterline Extension	0-2 Years	Not Funded	$334,960	Laurel	30	3
WX21125003	West 5th Street/College Street Waterline Replacement - Phase 1	0-2 Years	Not Funded	$127,658	Laurel		
WX21125006	West 5th Street/College Street Waterline Replacement - Phase 2	0-2 Years	Not Funded	$89,709	Laurel		

System Summary for West Laurel Water Association

PWSID	KY0630451	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water Association	Groundwater Source	No
Employees	-	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$32.95 per 4,000 gallons.	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 4 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	5,024
Residential Customers	4,902	Total Produced (MG)	-
Commercial Customers	121	Total Purchased (MG)	356.982
Institutional Customers	-	Total Inside Usage (MG)	238.768
Industrial Customers	-	Total Wholesale Sold (MG)	29.591
Wholesale Customers	1	Estimated Pct. Water Loss	25%

Total Distribution System Line Length = 219.74 miles (Distribution: 219.11 miles, Transmission: 0.64 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for West Laurel Water Association

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21125514	West Laurel Road Without Waterlines (Previosly WX21125513)	3-5 Years	Not Funded	$70,608	Laurel		9
WX21125550	West Laurel Cold Hill Area Storage Tank.	3-5 Years	Not Funded	$2,100,000	Laurel		
WX21125561	West Laurel - Parker Road & Hwy 192 Transmission Main	3-5 Years	Not Funded	$2,000,000	Laurel		
WX21125547	West Laurel Water Association - Hyw 552 Project	3-5 Years	Not Funded	$200,000	Laurel		
WX21125549	West Laurel Water Association - Hwy 552 Project	3-5 Years	Not Funded	$175,000	Laurel		
WX21125563	West Laurel Water Association - Generators	3-5 Years	Not Funded	$125,000	Laurel		
WX21125556	West Laurel Water Association - Improvements #5	3-5 Years	Not Funded	$45,000	Laurel		

System Summary for Wood Creek Water District

PWSID	KY0630477	Treats Water	Yes, 1 plant with total capacity of 8.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	37	Wholesale Purchaser	No
Non-Municipal Cost	$34.50 per 4,000 gallons.	Wholesale Provider	Yes, to 3 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 5 tanks with total capacity of 3.000 MG.
Outside Mun. Cost	-	Total Connections	4,732
Residential Customers	4,858	Total Produced (MG)	1,582.506
Commercial Customers	390	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	598.664
Industrial Customers	-	Total Wholesale Sold (MG)	798.364
Wholesale Customers	3	Estimated Pct. Water Loss	12%

Total Distribution System Line Length = 300.80 miles (Distribution: 293.99 miles, Transmission: 6.81 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Wood Creek Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21125477	Wood Creek Water District - Watershed Protection Project #7	3-5 Years	Not Funded	$310,000	Laurel		7
WX21125478	Wood Creek Water District - Watershed Protection Project #8	3-5 Years	Not Funded	$130,000	Laurel		8
WX21125523	Wood Creek Water District Sys Improvements #3	3-5 Years	Not Funded	$1,900,000	Laurel		
WX21125533	WCWD System Improvement #7	3-5 Years	Not Funded	$1,800,000	Laurel		
WX21125565	Wood Creek Water District - Generators	3-5 Years	Not Funded	$1,400,000	Laurel		
WX21125542	Wood Creek Water District - Watershed Protection Project #1	3-5 Years	Partially Funded	$1,250,000	Laurel		
WX21125525	Wood Creek Water District Sys Improvements #5	3-5 Years	Not Funded	$570,000	Laurel		
WX21125560	Wood Creek System Improvement #II	3-5 Years	Not Funded	$50,000	Laurel		

Rockcastle County

- 2010 census population of 17,056 (7,703 households) with 96% serviceable.
- Projected 2020 population of 17,593 (change of 537).
- Rockcastle County has 467.24 miles of existing water lines.
- 25.00 miles of line extensions proposed in the next 10 years.
- 2.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $8,768,176.
- Estimated funding needs for projects from 6 to 10 years: $888,500.



Rockcastle County has a 2010 census population count of 17,056 (7,703 households) with a projected 2020 population count of 17,593 (7,308 households). Public water is currently available to approximately 96 percent of the county's households based on 2010 census counts. Over the next ten years approximately 663 serviceable households will be added through the construction of 25.00 miles of water line extensions and approximately 4,229 instances of improved service through the rehabilitation of 2.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Brodhead	1	$1,136,000	-	351	-	1.00	-
City of Livingston	1	$52,500	-	167	-	-	-
City of Mount Vernon	1	$800,000	-	2,001	-	-	-
Eastern Rockcastle Water Association Inc	4	$1,550,000	641	1,202	11.00	-	-
Jackson County Water Association Inc	1	$5,300,000	-	8	-	1.00	-
Rockcastle County Fiscal Court	1	$291,000	12	-	2.00	-	-
Western Rockcastle Water Association Inc	1	$527,176	10	500	12.00	-	-
Totals:	**10**	**$9,656,676**	**663**	**4,229**	**25.00**	**2.00**	**-**

Community Drinking Water Systems in Rockcastle County

Note: Serviceability counts are for households within Rockcastle county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY1020889	City of Brodhead	Rockcastle	1,512	680
KY1020299	City of Mount Vernon	Rockcastle	4,319	1,991
KY1020288	Eastern Rockcastle County Water Association	Rockcastle	1,398	684
KY1020253	Livingston Municpal Water Works	Rockcastle	374	192
KY1020891	Western Rockcastle Water Association	Rockcastle	8,755	3,834
KY0550209	Jackson County Water Association Inc	Jackson	65	35
		Totals:	16,423	7,416

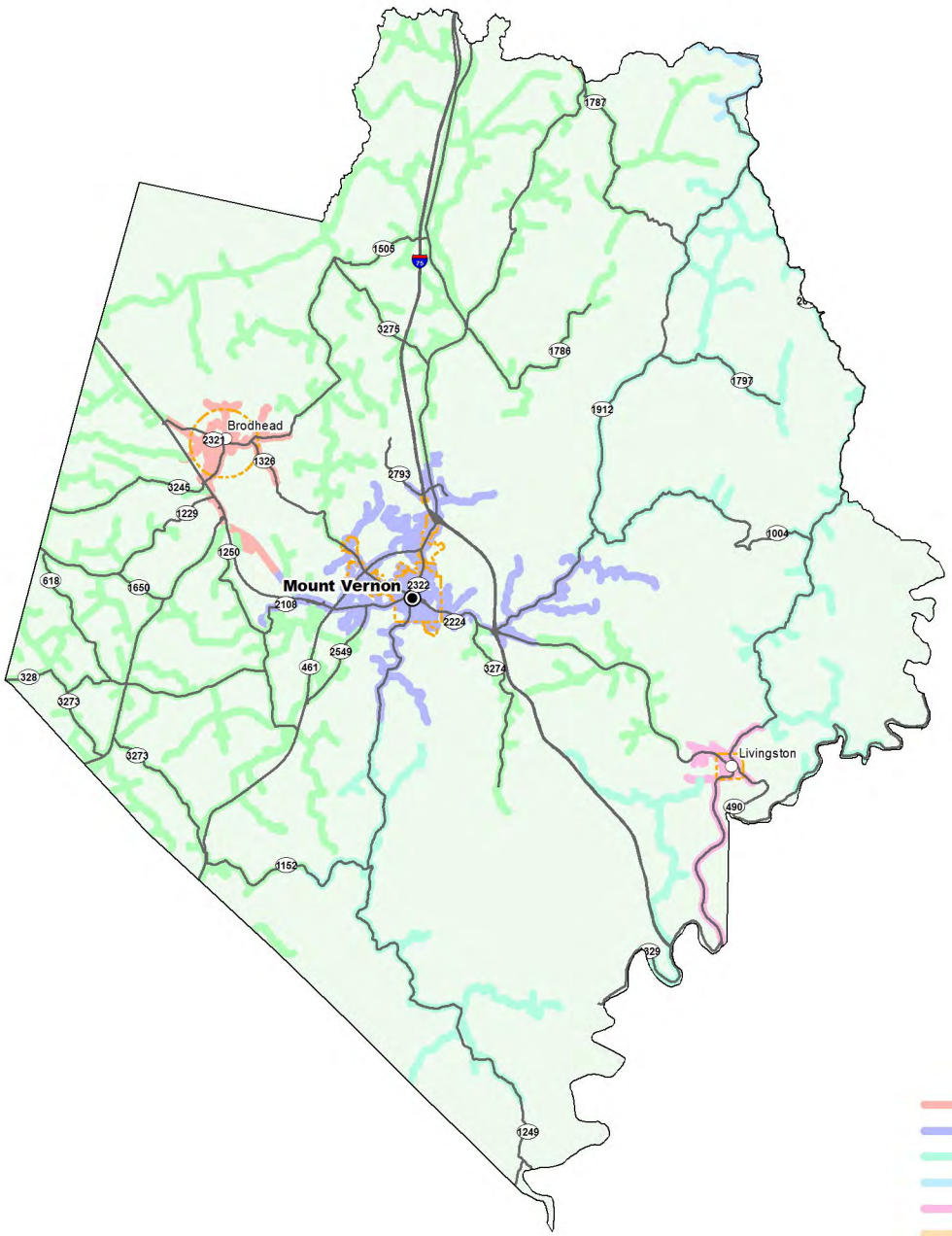
WATER SERVICE AREAS
ROCKCASTLE COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

Kentucky Infrastructure Authority
1024 Capital Center Drive
Frankfort, KY 40601
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http://kia.ky.gov

January, 2013

Water Resource Information System



WATER SERVICE BY OWNER

- CITY OF BRODHEAD
- CITY OF MOUNT VERNON
- EASTERN ROCKCASTLE COUNTY WATER ASSOCIATION
- JACKSON COUNTY WATER ASSOCIATION INC
- LIVINGSTON MUNICPAL WATER WORKS
- SOUTHERN MADISON WATER DISTRICT
- WESTERN ROCKCASTLE WATER ASSOCIATION

System Summary for City of Brodhead

PWSID	KY1020889	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	3	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$33.32 per 4,000 gallons.	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$44.87 per 4,000 gallons.	Total Connections	546
Residential Customers	530	Total Produced (MG)	-
Commercial Customers	15	Total Purchased (MG)	47.048
Institutional Customers	-	Total Inside Usage (MG)	39.790
Industrial Customers	1	Total Wholesale Sold (MG)	5.910
Wholesale Customers	1	Estimated Pct. Water Loss	3%
Total Distribution System Line Length = 19.03 miles (Distribution: 19.03 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for City of Brodhead

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21203006	Brodhead: Waterline Replacement and Upgrade	3-5 Years	Not Funded	$1,136,000	Rockcastle	3	4

System Summary for City of Mount Vernon

PWSID	KY1020299	Treats Water	Yes, 1 plant with total capacity of 4.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	7	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 3 purchasers.
Inside Mun. Cost	$18.22 per 4,000 gallons.	Storage Capacity	Yes, 7 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	$22.56 per 4,000 gallons.	Total Connections	2,017
Residential Customers	1,669	Total Produced (MG)	645.801
Commercial Customers	285	Total Purchased (MG)	-
Institutional Customers	21	Total Inside Usage (MG)	274.427
Industrial Customers	15	Total Wholesale Sold (MG)	227.104
Wholesale Customers	3	Estimated Pct. Water Loss	22%
Total Distribution System Line Length = 78.24 miles (Distribution: 77.88 miles, Transmission: 0.36 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for City of Mount Vernon

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21203005	Mount Vernon - Phase #3 - Water Treatment Plant Improvements	3-5 Years	Not Funded	$800,000	Rockcastle	10	1

System Summary for Eastern Rockcastle County Water Association

PWSID	KY1020288	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water Association	Groundwater Source	No
Employees	2	Wholesale Purchaser	Yes, from 3 providers.
Non-Municipal Cost	$44.54 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	607
Residential Customers	607	Total Produced (MG)	-
Commercial Customers	-	Total Purchased (MG)	23.741
Institutional Customers	-	Total Inside Usage (MG)	21.820
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	8%

Total Distribution System Line Length = 100.81 miles (Distribution: 100.74 miles, Transmission: 0.07 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Eastern Rockcastle County Water Association

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21151053	Raw Water and High Service Pumping and Controls Modification	0-2 Years	Partially Funded	$680,000	Madison	11	4
WX21203007	Water Pump Replacement & Repairs	3-5 Years	Not Funded	$30,000	Rockcastle	17	2
WX21203009	Eastern Rockcastle - Meter Replacement and Radio Read Meters	0-2 Years	Not Funded	$80,000	Rockcastle		6
WX21203556	Eastern Rockcastle - Water Line Extension and Connection	6-10 Years	Not Funded	$836,000	Rockcastle		
WX21203519	Eastern Rockcastle Water Association - Water System Improvements	0-2 Years	Not Funded	$604,000	Rockcastle		

System Summary for Livingston Municpal Water Works

PWSID	KY1020253	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	2	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$48.02 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	$49.70 per 4,000 gallons.	Total Connections	182
Residential Customers	182	Total Produced (MG)	-
Commercial Customers	-	Total Purchased (MG)	16.972
Institutional Customers	-	Total Inside Usage (MG)	7.926
Industrial Customers	-	Total Wholesale Sold (MG)	3.558
Wholesale Customers	1	Estimated Pct. Water Loss	32%
Total Distribution System Line Length = 12.96 miles (Distribution: 12.96 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Livingston Municpal Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21203538	City of Livingston - Wood Creek Water Connection	3-5 Years	Not Funded	$1,096,000	Laurel		10
WX21203534	Livingston Ky - Water System Debt Reduction	6-10 Years	Not Funded	$52,500	Rockcastle		

System Summary for Western Rockcastle Water Association

PWSID	KY1020891	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water Association	Groundwater Source	No
Employees	10	Wholesale Purchaser	Yes, from 3 providers.
Non-Municipal Cost	$45.51 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 8 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	3,120
Residential Customers	4,048	Total Produced (MG)	-
Commercial Customers	-	Total Purchased (MG)	187.605
Institutional Customers	-	Total Inside Usage (MG)	209.601
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	-12%

Total Distribution System Line Length = 337.76 miles (Distribution: 337.76 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Western Rockcastle Water Association

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21203558	Western Rockcastle Water Association - Hummel Road Water Line Extension	3-5 Years	Not Funded	$291,000	Rockcastle	15	5
WX21203554	Western Rockcastle Water Line Extensions & Improvements	0-2 Years	Partially Funded	$527,176	Rockcastle		

Whitley County

- 2010 census population of 35,637 (15,166 households) with 97% serviceable.
- Projected 2020 population of 35,256 (change of -381).
- Whitley County has 663.48 miles of existing water lines.
- 24.00 miles of line extensions proposed in the next 10 years.
- 21.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $6,267,247.
- Estimated funding needs for projects from 6 to 10 years: $4,230,000.



Whitley County has a 2010 census population count of 35,637 (15,166 households) with a projected 2020 population count of 35,256 (14,048 households). Public water is currently available to approximately 97 percent of the county's households based on 2010 census counts. Over the next ten years approximately 515 serviceable households will be added through the construction of 24.00 miles of water line extensions and approximately 2,123 instances of improved service through the rehabilitation of 21.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Corbin	1	$980,000	1	10	2.00	-	-
City of Williamsburg	1	$3,250,000	-	1,650	-	-	-
Cumberland Falls Highway Water District	1	$1,723,000	300	248	2.00	9.00	-
Knox County Utility Commission	2	$738,000	90	-	6.00	-	-
McCreary County Water District	2	$2,078,727	4	4	2.00	1.00	-
Whitley County Water District	2	$1,727,520	120	211	12.00	11.00	-
Totals:	**9**	**$10,497,247**	**515**	**2,123**	**24.00**	**21.00**	**-**

Community Drinking Water Systems in Whitley County

Note: Serviceability counts are for households within Whitley county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY1180085	Corbin Utilities Commission	Whitley	8,112	3,669
KY1180093	Cumberland Falls Highway Water District	Whitley	8,909	3,694
KY1180468	Whitley County Water District #1	Whitley	3,255	1,382
KY1180962	Whitley County Water District #2	Whitley	4,891	2,145
KY1180999	Whitley County Water District #3	Whitley	2,934	1,245
KY1183728	Whitley County Water District - 92 West	Whitley	427	183
KY1180471	Williamsburg Municipal WTP	Whitley	5,123	1,925
KY0070353	Pineville Water System	Bell	227	101
KY0610110	Knox County Utility Commission	Knox	607	314
		Totals:	34,485	14,658

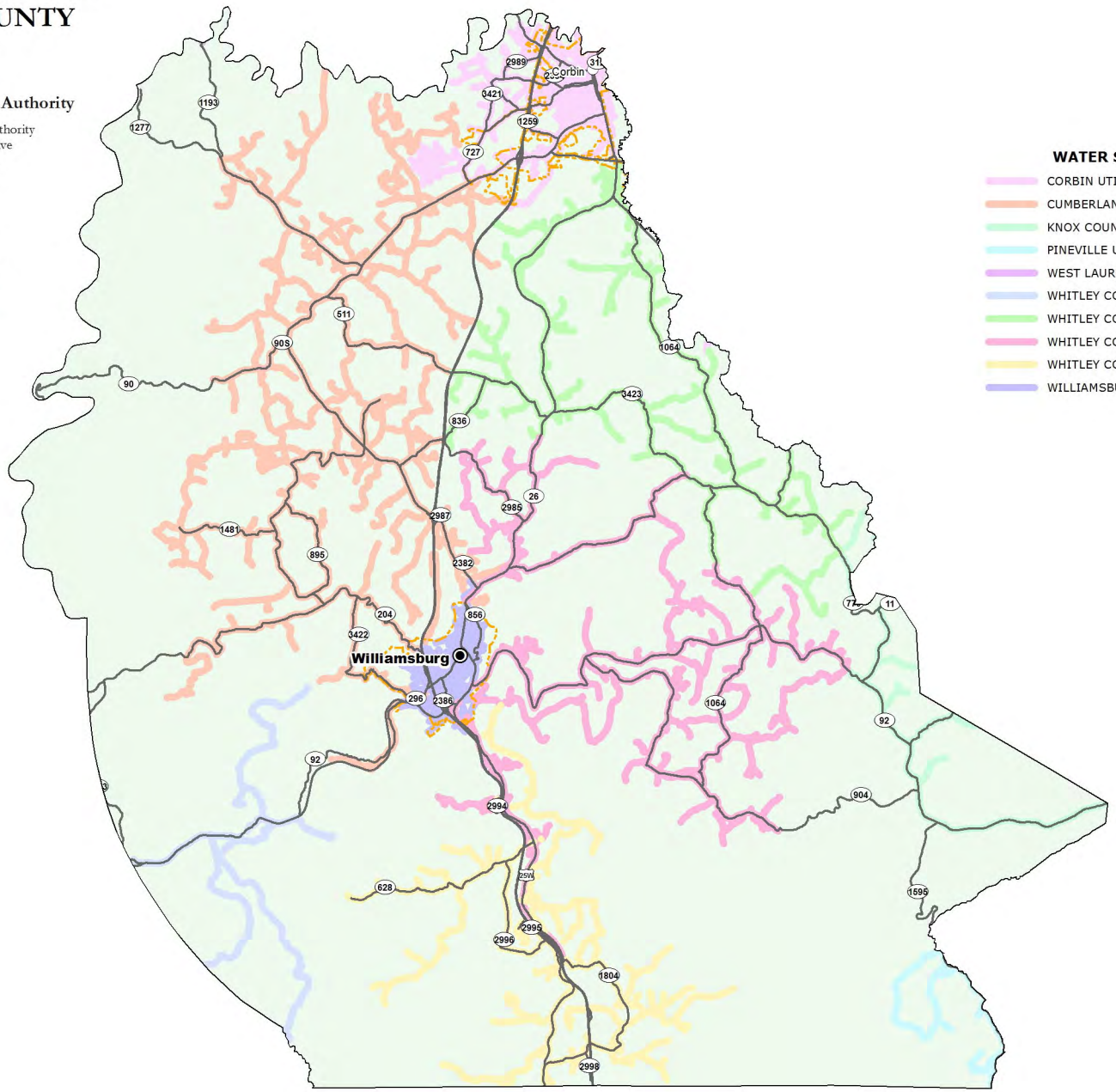
WATER SERVICE AREAS
WHITLEY COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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January, 2013

Water Resource Information System



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WATER SERVICE BY OWNER

- CORBIN UTILITIES COMMISSION
- CUMBERLAND FALLS HIGHWAY WATER DISTRICT
- KNOX COUNTY UTILITY COMMISSION
- PINEVILLE UTILITY COMMISSION
- WEST LAUREL WATER ASSOCIATION
- WHITLEY COUNTY WATER DISTRICT
- WHITLEY COUNTY WATER DISTRICT #1
- WHITLEY COUNTY WATER DISTRICT #2
- WHITLEY COUNTY WATER DISTRICT #3
- WILLIAMSBURG MUNICIPAL WTP

System Summary for Corbin Utilities Commission

PWSID	KY1180085	Treats Water	Yes, 1 plant with total capacity of 10.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Municipal Utility Board or Commission	Groundwater Source	No
Employees	18	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 3 purchasers.
Inside Mun. Cost	$13.41 per 4,000 gallons.	Storage Capacity	Yes, 9 tanks with total capacity of 6.000 MG.
Outside Mun. Cost	$18.78 per 4,000 gallons.	Total Connections	6,338
Residential Customers	5,443	Total Produced (MG)	1,279.921
Commercial Customers	992	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	639.472
Industrial Customers	7	Total Wholesale Sold (MG)	171.302
Wholesale Customers	3	Estimated Pct. Water Loss	37%

Total Distribution System Line Length = 183.67 miles (Distribution: 182.20 miles, Transmission: 1.46 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Corbin Utilities Commission

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21121724	Corbin By-Pass (KY 3041) Water Line Extension	6-10 Years	Not Funded	$980,000	Whitley		

System Summary for Cumberland Falls Highway Water District

PWSID	KY1180093	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	8	Wholesale Purchaser	Yes, from 3 providers.
Non-Municipal Cost	$37.29 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 6 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	3,178
Residential Customers	3,086	Total Produced (MG)	-
Commercial Customers	58	Total Purchased (MG)	76.843
Institutional Customers	30	Total Inside Usage (MG)	204.666
Industrial Customers	4	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	-166%
Total Distribution System Line Length = 189.80 miles (Distribution: 188.83 miles, Transmission: 0.97 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Cumberland Falls Highway Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21235002	CFHWYWD - Line Replacement and Reinforcement	3-5 Years	Partially Funded	$1,723,000	Whitley	2	3

System Summary for Whitley County Water District #1

PWSID	KY1180468	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	8	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$40.97 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	No
Outside Mun. Cost	-	Total Connections	935
Residential Customers	1,061	Total Produced (MG)	-
Commercial Customers	37	Total Purchased (MG)	84.478
Institutional Customers	2	Total Inside Usage (MG)	45.122
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	47%
Total Distribution System Line Length = 76.82 miles (Distribution: 76.82 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Whitley County Water District #1

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21235434	Whitley County: Water System Improvements	3-5 Years	Not Funded	$937,500	Whitley	9	1

System Summary for Whitley County Water District #2

PWSID	KY1180962	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	8	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$40.97 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	1,761
Residential Customers	1,688	Total Produced (MG)	-
Commercial Customers	70	Total Purchased (MG)	87.093
Institutional Customers	3	Total Inside Usage (MG)	72.994
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	16%
Total Distribution System Line Length = 134.30 miles (Distribution: 134.30 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Whitley County Water District #2

System Summary for Whitley County Water District #3

PWSID	KY1180999	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	8	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$40.97 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	919
Residential Customers	899	Total Produced (MG)	-
Commercial Customers	19	Total Purchased (MG)	-
Institutional Customers	1	Total Inside Usage (MG)	38.942
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	
Total Distribution System Line Length = 68.74 miles (Distribution: 68.74 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Whitley County Water District #3

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21235434	Whitley County: Water System Improvements	3-5 Years	Not Funded	$937,500	Whitley	9	1
WX21121250	Waterline Extension to Unserved Areas - Lot Mudcreek Road	0-2 Years	Partially Funded	$790,020	Whitley		

System Summary for Whitley County Water District - 92 West

PWSID	KY1183728	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	9	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$40.97 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	117
Residential Customers	116	Total Produced (MG)	-
Commercial Customers	1	Total Purchased (MG)	6.036
Institutional Customers	-	Total Inside Usage (MG)	5.700
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	6%
Total Distribution System Line Length = 26.58 miles (Distribution: 26.58 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Whitley County Water District - 92 West

System Summary for Williamsburg Municipal WTP

PWSID	KY1180471	Treats Water	Yes, 1 plant with total capacity of 2.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	16	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	$22.29 per 4,000 gallons.	Storage Capacity	Yes, 7 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	$37.08 per 4,000 gallons.	Total Connections	1,646
Residential Customers	1,375	Total Produced (MG)	550.337
Commercial Customers	184	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	159.753
Industrial Customers	1	Total Wholesale Sold (MG)	131.551
Wholesale Customers	2	Estimated Pct. Water Loss	47%
Total Distribution System Line Length = 46.65 miles (Distribution: 46.25 miles, Transmission: 0.40 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Williamsburg Municipal WTP

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21235803	Williamsburg - Phase III Water System Improvements	6-10 Years	Not Funded	$3,250,000	Whitley		

Five County Area Development District (FIVCO)



- 2010 census population of 137,884 (61,101 households) with 95% serviceable.
- Projected 2020 population of 139,098 (change of 1,214).
- 2,414.36 miles of existing water lines.
- 59.00 miles of line extensions proposed in the next 10 years.
- 10.00 miles of line rehabilitation proposed in the next 10 years.
- 11.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $44,577,273.
- Estimated funding needs for projects from 6 to 10 years: $236,400.
- Average age of structures: water treatment plants is 33 years; water tanks is 27 years.
- Total number of interconnected systems is 17.
- 46 miles of asbestos concrete pipe currently in use.
- 563 miles of water lines less than 15 years old.
- 761 miles of water lines between 15 and 30 years old.
- 867 miles of water lines between 31 and 50 years old.
- 18 miles of water lines between 51 and 70 years old.
- 123 miles of water lines greater than 70 years old.

Five County Area Development District has a 2010 census population count of 137,884 (61,101 households) with a projected 2020 population count of 139,098 (56,252 households). Public water is currently available to approximately 95 percent of the district's households based on 2010 census counts. Over the next ten years approximately 1,776 serviceable households will be added through the construction of 59.00 miles of water line extensions and approximately 59,736 instances of improved service through the rehabilitation of 10.00 miles of existing water lines and other appurtenances. 11.00 miles of transmission lines are also proposed within this district.

County Summary for Five County Area Development District

County Name	2010 Population	2010 Households	2020 Population	2020 Households	Serviceable Households	Percent Serviceable	Planned Cost 0 to 10 Years
Boyd	49,542	21,803	49,446	20,040	21,737	100%	$ 6,465,475
Carter	27,720	12,311	28,459	11,508	11,590	94%	$ 7,349,750
Elliott	7,852	3,371	8,078	3,011	3,108	92%	-
Greenup	36,910	16,330	36,923	15,046	15,116	93%	$ 29,613,448
Lawrence	15,860	7,286	16,192	6,647	6,604	91%	$ 1,385,000
Totals	**137,884**	**61,101**	**139,098**	**56,252**	**58,155**	**95%**	**$ 44,813,673**

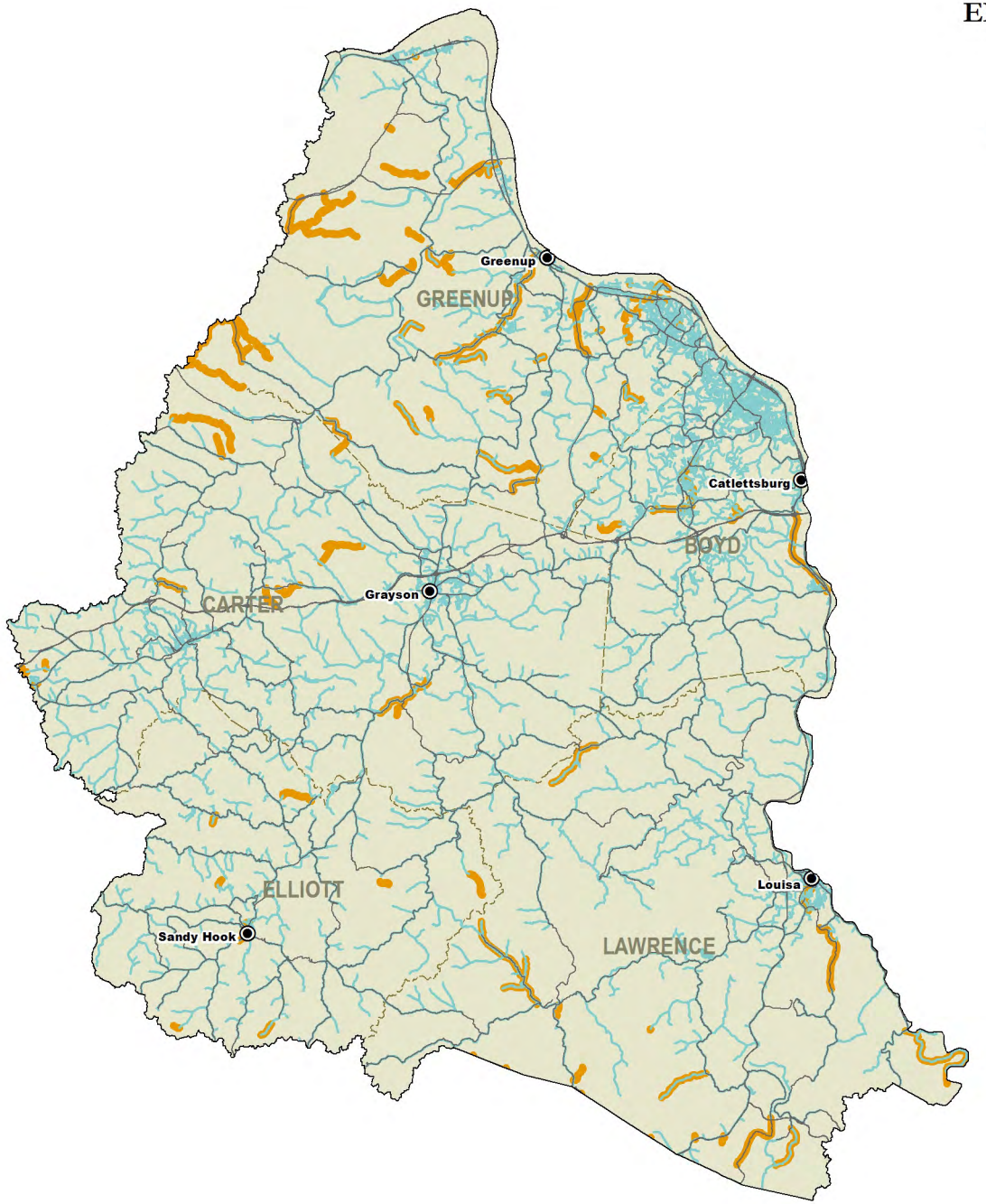
EXISTING & PROPOSED WATER LINES

FIVCO

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Kentucky Infrastructure Authority

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January, 2013



Community Water Systems in Five County Area Development District County

Note: Serviceable counts include households outside the area development district.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0100011	Ashland Water Department	Boyd	35,815	16,137
KY0100944	Big Sandy Water District	Boyd	13,738	5,942
KY0100064	Cannonsburg Water District	Boyd	8,937	3,710
KY0100004	Overland Development	Boyd	269	104
KY0220164	Grayson Water Department	Carter	10,817	4,588
KY0220335	Olive Hill Water Department	Carter	4,953	2,335
KY0220555	Rattlesnake Ridge Water District	Carter	11,418	5,202
KY0320383	Sandy Hook Water District	Elliott	3,722	1,514
KY0450132	Flatwoods Water Department	Greenup	8,030	3,553
KY0450169	Greenup Water Department	Greenup	10,299	4,478
KY0450365	Raceland Water Department	Greenup	3,185	1,446
KY0450376	Russell Water Department	Greenup	4,893	2,141
KY0450410	South Shore Water Department	Greenup	4,590	2,170
KY0450478	Worthington Water Department	Greenup	1,613	684
KY0450479	Wurtland Water Department	Greenup	1,476	632
KY0640257	Louisa Water Department	Lawrence	5,476	2,474
		Totals:	129,231	57,110

Five County Area Development District
Regional Water Needs Assessment

Primary Need: **Repair and Replace Existing Infrastructure**
Secondary Need: **Meet Regulartory Requirements**

Discussion of Area Development District Needs:

Just the mention of aging infrastructure effectively blocks out all other discussion of area needs for the water utilities, but, in truth, most of the specifics all relate back to that general problem. Tanks in need of inspection, cleaning or painting is a function of age. Waterlines breaking are often the result of age or inferior materials or both. The City of Olive Hill, for example, has a 50 year old water treatment plant and a distribution system to match. In many cases there are projects to address these needs but not always. The utilities itemize there needs in the form of projects according to what needs to be done first or what might actually be feasible. Some comment that listing every need is the same as listing none; the task is crippling and stops all progress.

Description and Determination of Planning Units:

The FIVCO Planning Units consist of the FIVCO Counties. With few exceptions, the water systems do not have large customer bases in multiple counties. The exceptions to this are Rattlesnake Ridge Water District covering Carter, Elliott and Lawrence Counties, and the Big Sandy Water District in Boyd and Lawrence Counties. The other 14 water systems are bounded by their county lines. It is good to note that every system in the ADD is in some way interconnected with every other for emergency purposes or as a means of addressing pressure problems in more rural areas. In 2005, Hal Rogers secured funds for a study to connect 40 counties in Eastern Kentucky for the purposes of uninterrupted water supply. The ADDs involved in this study were FIVCO, Gateway, Big Sandy, Kentucky River, Cumberland Valley and Lake Cumberland. At least in the FIVCO area all the systems used the same chlorination process which eased the problems of interconnection somewhat. Though connectivity in the ADD is high, each county has its own plans for economic growth which makes division of the Planning Units by county understandable.

Boyd County is served by the City of Ashland (a large producer) and the Big Sandy Water District (a large distributor) and Cannonsburg Water District. Coverage is nearly 100% though BSWD is only recently working on an interconnect with Ashland. Previously, the Water District purchased the bulk of its supply from the City of Kenova in West Virginia and the City of Louisa in Lawrence County Kentucky.

Carter County is served by the Cities of Grayson and Olive Hill as well as the Rattlesnake Ridge Water District. The Water District has its corporate office in Carter County and its treatment plant in Elliott County.

Elliott County is served by Sandy Hook Water District and Rattlesnake Ridge Water District. Most of the County is served with only small "spurs" remaining to complete coverage.

Lawrence County is served by the Louisa Water and Sewer Commission and the Big Sandy Water District. In the past year, Paintsville Water has been invited to extend service into the southern region of the County around the City of Blaine. The Fiscal Court has paid for this extension.

Greenup County is served by seven of the sixteen water systems with corporate offices in the County as well as service from Ashland Water Department and the Cannonsburg Water District, both from Boyd County. Most of these systems are localized municipalities but the City of Greenup has expanded to provide service to most of the unserved areas of the County. Cannonsburg Water District provides service along the southern part of the Industrial Parkway and provides an interconnect with Greenup Water to help with pressure problems in the more remote reaches on their system.

Five County Area Development District
Project Ranking Methodology

The annual ranking in the FIVCO ADD area begins with a series of county-wide meetings comprised of all the water and sewer utilities in the county where the meeting is taking place. Each utility present decides which of their projects is to be ranked (typically two or three from their list) and determines the importance of those for themselves.

A point system is not used as the members of the Council feel that the importance of a project exists independent of a score based on its position in the development process. To provide some structure to the ranking, however, priority was given to projects dealing with:

- Immanent public health issues
- Critical system failures (current or threatening) that might bring down a utility lacking a backup plan
- Input from DOW such as a Notice of Violation (NOV) or an Agreed Order
- Regionalization

Projects are considered based on the aforementioned criteria and a ranking is produced following amicable discussion by all those present.

****

If a Ranking cannot be agreed upon, FIVCO ADD has a backup plan using the following point system:

Points / Problem Addressed by Project

7 Immanent public health issues or critical system failures that might bring down a utility
6 Agreed Order from DOW
5 Notice of Violation from DOW
4 Regionalization of services
3 Maintenance projects on existing infrastructure
2 Upgrades to the treatment plants, pumps, or the distribution/collection system
1 Extension of new service lines

Add five (5) points if plans have been engineered and submitted to DOW for approval.

Discussion within the group can override the points attached to each problem addressed by the project.

Project Rankings For Five County Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21043038	Grayson: WTP Emergency Power Generators	0-2 Years	Not Funded	$333,000	Carter	1	1
WX21089011	Russell: New Water Treatment Plant	0-2 Years	Not Funded	$16,000,000	Greenup	2	1
WX21019047	Ashland: Debord Hill Water Tank Upgrade	0-2 Years	Not Funded	$900,000	Boyd	3	1
WX21043042	Olive Hill: New Backwash Pump at WTP	0-2 Years	Not Funded	$85,000	Carter	4	3
WX21089068	Russell: Construct New 500,000 Gallon Water Tank	3-5 Years	Not Funded	$836,000	Greenup	5	2
WX21043041	Olive Hill: Replace Downtown Area Water Line	3-5 Years	Not Funded	$325,000	Carter	6	2
WX21089065	Raceland: Leak Detection Survey for Water Loss Abatement	0-2 Years	Not Funded	$19,488	Greenup	7	4
WX21089061	Raceland: Relocate RR Water Main to Corkey Lane	0-2 Years	Not Funded	$236,100	Greenup	8	3
WX21089067	South Shore: WTP Upgrade	0-2 Years	Not Funded	$500,000	Greenup	9	5
WX21043040	Grayson: Keyhoe Water Line Extension Phase 2	3-5 Years	Not Funded	$150,000	Carter	10	4
WX21089073	Raceland: Caroline Road Waterline Extension	0-2 Years	Not Funded	$65,000	Greenup	11	6
WX21089063	Raceland: Water Meter Replacement Project	0-2 Years	Not Funded	$369,900	Greenup	12	7
WX21089079	Russell: Upgrade 2 Pump Stations	0-2 Years	Not Funded	$140,000	Greenup	13	8
WX21043028	RRWD: Carter County Line Extensions	3-5 Years	Not Funded	$628,750	Carter	14	5
			Total Cost:	**$20,588,238**			

Boyd County

- 2010 census population of 49,542 (21,803 households) with 100% serviceable.
- Projected 2020 population of 49,446 (change of -96).
- Boyd County has 545.56 miles of existing water lines.
- There are no line extensions proposed in the next 10 years.
- 8.00 miles of line rehabilitation proposed in the next 10 years.
- 1.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $6,465,475.
- There are no projects planned from 6 to 10 years.



Boyd County has a 2010 census population count of 49,542 (21,803 households) with a projected 2020 population count of 49,446 (20,040 households). Public water is currently available to approximately 100 percent of the county's households based on 2010 census counts. Over the next ten years approximately 17,505 instances of improved service through the rehabilitation of 8.00 miles of existing water lines and other appurtenances. 1.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Cannonsburg Water District	7	$5,160,475	-	7,505	-	8.00	1.00
City of Ashland	2	$1,305,000	-	10,000	-	-	-
Totals:	**9**	**$6,465,475**	**-**	**17,505**	**-**	**8.00**	**1.00**

Community Drinking Water Systems in Boyd County

Note: Serviceability counts are for households within Boyd county only.

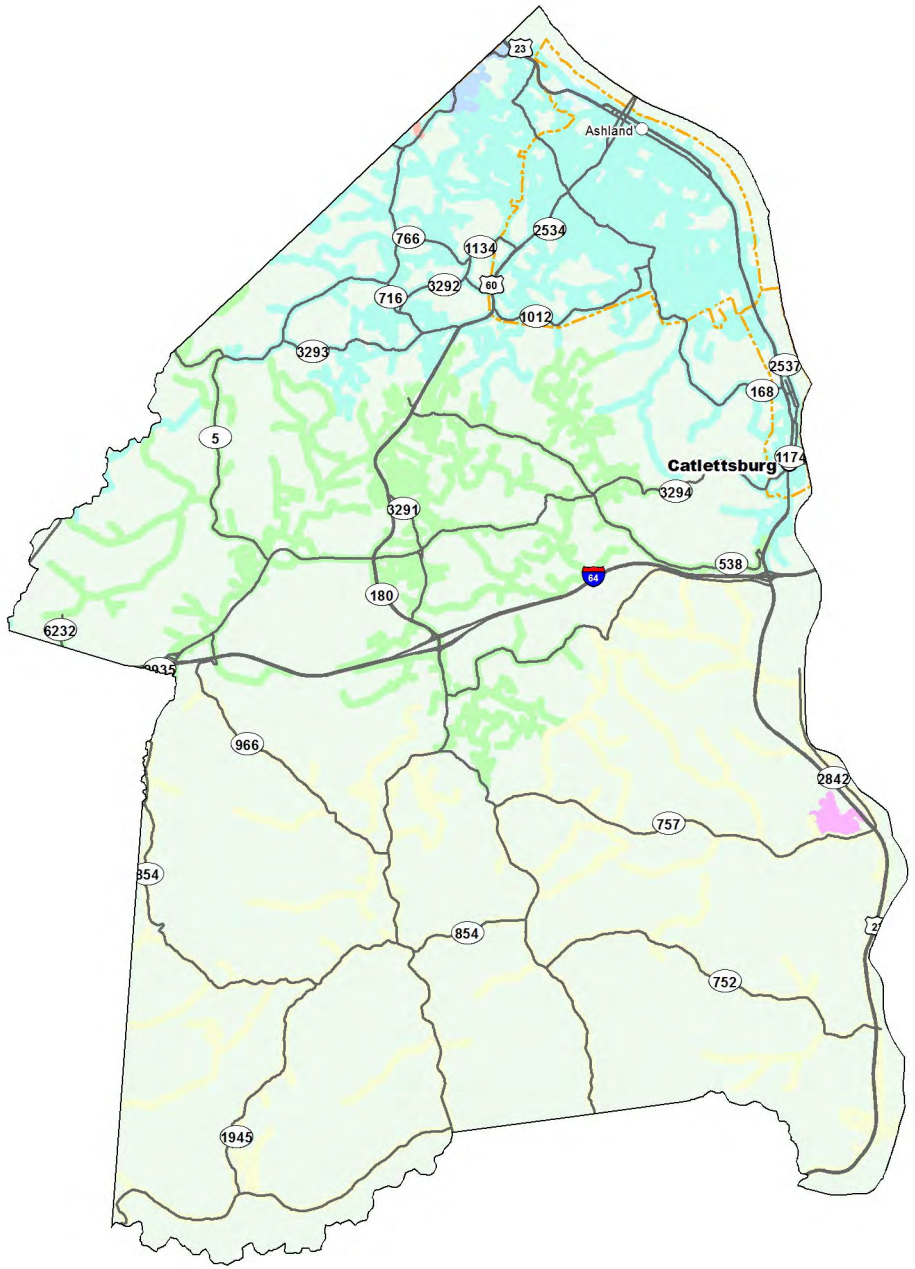
PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0100011	Ashland Water Department	Boyd	35,691	16,084
KY0100944	Big Sandy Water District	Boyd	4,561	1,836
KY0100064	Cannonsburg Water District	Boyd	8,476	3,514
KY0100004	Overland Development	Boyd	269	104
KY0450376	Russell Water Department	Greenup	401	188
		Totals:	49,398	21,726

WATER SERVICE AREAS
BOYD COUNTY
Kentucky

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January, 2013



System Summary for Ashland Water Department

PWSID	KY0100011	Treats Water	Yes, 1 plant with total capacity of 24.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	42	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 3 purchasers.
Inside Mun. Cost	$24.27 per 4,000 gallons.	Storage Capacity	Yes, 12 tanks with total capacity of 13.000 MG.
Outside Mun. Cost	$46.74 per 4,000 gallons.	Total Connections	14,065
Residential Customers	11,974	Total Produced (MG)	3,884.000
Commercial Customers	2,091	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	1,419.462
Industrial Customers	-	Total Wholesale Sold (MG)	539.463
Wholesale Customers	3	Estimated Pct. Water Loss	50%
Total Distribution System Line Length = 280.49 miles (Distribution: 279.21 miles, Transmission: 1.29 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Ashland Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21019047	Ashland: Debord Hill Water Tank Upgrade	0-2 Years	Not Funded	$900,000	Boyd	3	1
WX21019042	Ashland: Radio Read Meter Equipment Purchase	3-5 Years	Not Funded	$405,000	Boyd		

System Summary for Big Sandy Water District

PWSID	KY0100944	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	9	Wholesale Purchaser	Yes, from 4 providers.
Non-Municipal Cost	$41.87 per 4,000 gallons.	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 10 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	4,606
Residential Customers	4,426	Total Produced (MG)	-
Commercial Customers	55	Total Purchased (MG)	145.164
Institutional Customers	-	Total Inside Usage (MG)	241.423
Industrial Customers	33	Total Wholesale Sold (MG)	8.470
Wholesale Customers	2	Estimated Pct. Water Loss	-72%
Total Distribution System Line Length = 419.83 miles (Distribution: 419.83 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Big Sandy Water District

System Summary for Cannonsburg Water District

PWSID	KY0100064	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	9	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	$35.98 per 4,000 gallons.	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 5 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	3,516
Residential Customers	3,230	Total Produced (MG)	-
Commercial Customers	242	Total Purchased (MG)	415.024
Institutional Customers	-	Total Inside Usage (MG)	368.978
Industrial Customers	3	Total Wholesale Sold (MG)	49.606
Wholesale Customers	1	Estimated Pct. Water Loss	-1%

Total Distribution System Line Length = 161.14 miles (Distribution: 156.34 miles, Transmission: 4.80 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Cannonsburg Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21019043	CWD: Existing Water System Improvements	0-2 Years	Not Funded	$2,085,475	Boyd		
WX21019037	CWD: Replacement of Asbestos Cement Tx Waterline to the Princes	0-2 Years	Not Funded	$2,000,000	Boyd		
WX21019039	Cannonsburg WD: Refurbish The Tarpin Ridge and Princess Water T	3-5 Years	Not Funded	$500,000	Boyd		
WX21019046	CWD: Water Loss Mitigation	3-5 Years	Not Funded	$300,000	Boyd		
WX21019011	CWD: Stream Crossing Repair and Booster Pump Station	0-2 Years	Not Funded	$125,000	Boyd		
WX21089035	CWD: Culp Creek and Wanda Lane Waterline Extensions	0-2 Years	Not Funded	$112,000	Greenup		
WX21019026	Cannonsburg WD: Tarpin Ridge Phase 2	0-2 Years	Not Funded	$100,000	Boyd		
WX21019040	CWD: Waterline Loop for Fair Ground Road	0-2 Years	Not Funded	$50,000	Boyd		

System Summary for Overland Development

PWSID	KY0100004	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Investor-Owned (Private For-Profit)	Groundwater Source	No
Employees	1	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$19.40 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	111
Residential Customers	111	Total Produced (MG)	-
Commercial Customers	-	Total Purchased (MG)	6.258
Institutional Customers	-	Total Inside Usage (MG)	5.760
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	8%
Total Distribution System Line Length = 4.50 miles (Distribution: 4.50 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Overland Development

Carter County

- 2010 census population of 27,720 (12,311 households) with 94% serviceable.
- Projected 2020 population of 28,459 (change of 739).
- Carter County has 621.38 miles of existing water lines.
- 12.00 miles of line extensions proposed in the next 10 years.
- 1.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $7,184,750.
- Estimated funding needs for projects from 6 to 10 years: $165,000.



Carter County has a 2010 census population count of 27,720 (12,311 households) with a projected 2020 population count of 28,459 (11,508 households). Public water is currently available to approximately 94 percent of the county's households based on 2010 census counts. Over the next ten years approximately 110 serviceable households will be added through the construction of 12.00 miles of water line extensions and approximately 16,991 instances of improved service through the rehabilitation of 1.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Olive Hill	3	$935,000	32	2,991	2.00	1.00	-
Garrison-Quincy-Ky-O-Heights Water District	1	$2,500,000	19	-	2.00	-	-
Grayson Utility Commission	5	$3,286,000	15	14,000	1.00	-	-
Rattlesnake Ridge Water District	1	$628,750	44	-	7.00	-	-
Totals:	**10**	**$7,349,750**	**110**	**16,991**	**12.00**	**1.00**	**-**

Community Drinking Water Systems in Carter County

Note: Serviceability counts are for households within Carter county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0220164	Grayson Water Department	Carter	10,448	4,434
KY0220335	Olive Hill Water Department	Carter	4,953	2,335
KY0220555	Rattlesnake Ridge Water District	Carter	6,775	3,071
KY0100944	Big Sandy Water District	Boyd	1,968	844
KY0680438	Vanceburg Water	Lewis	35	18
KY1030375	Rowan Water, Inc	Rowan	1,931	880
		Totals:	26,110	11,582

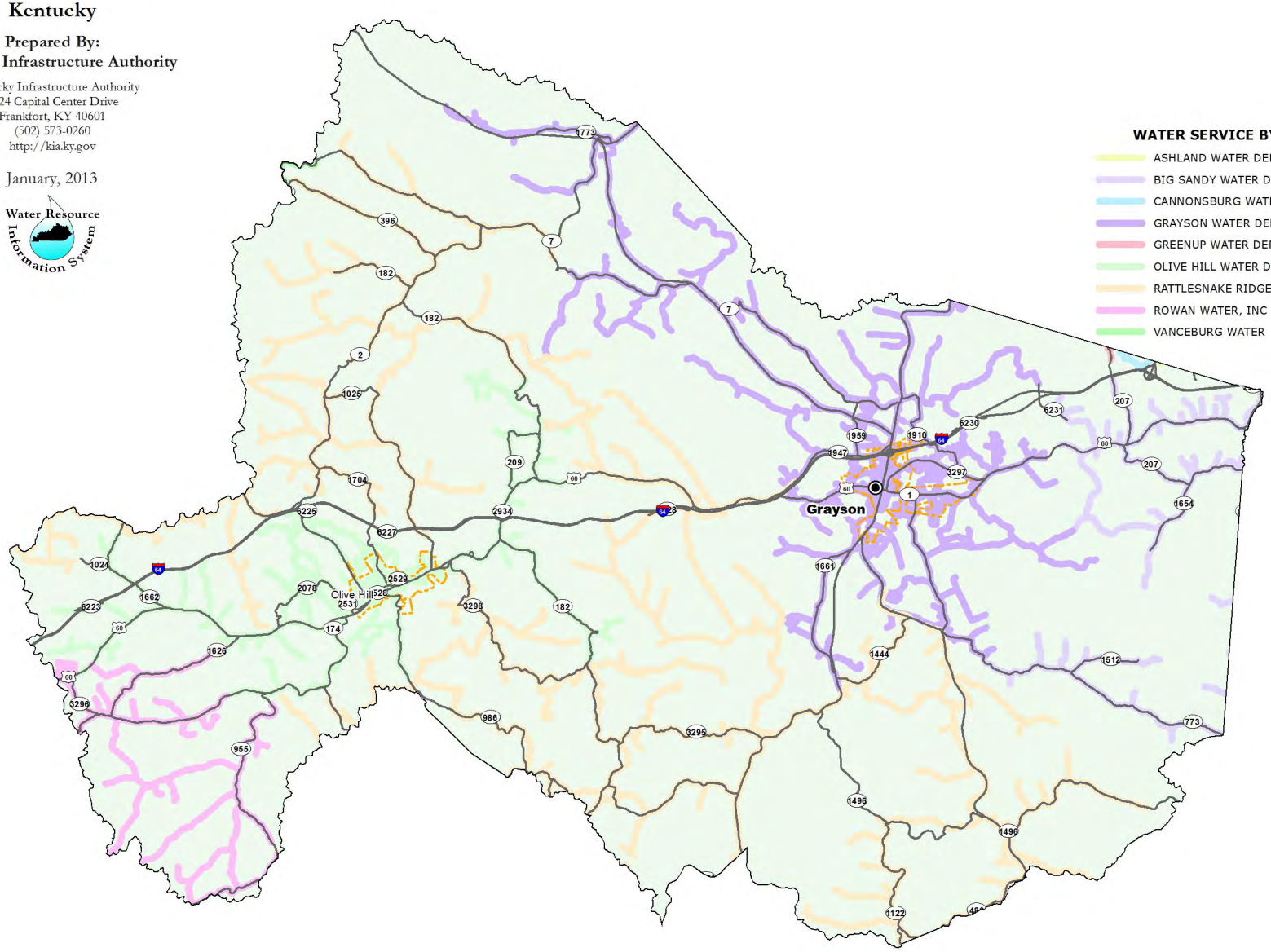
WATER SERVICE AREAS
CARTER COUNTY
Kentucky

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January, 2013

Water Resource Information System



System Summary for Grayson Water Department

PWSID	KY0220164	Treats Water	Yes, 1 plant with total capacity of 3.300 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Municipal Utility Board or Commission	Groundwater Source	No
Employees	10	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$22.80 per 4,000 gallons.	Storage Capacity	Yes, 7 tanks with total capacity of 3.000 MG.
Outside Mun. Cost	$28.23 per 4,000 gallons.	Total Connections	4,142
Residential Customers	2,760	Total Produced (MG)	602.545
Commercial Customers	1,381	Total Purchased (MG)	-
Institutional Customers	1	Total Inside Usage (MG)	438.598
Industrial Customers	-	Total Wholesale Sold (MG)	2.955
Wholesale Customers	1	Estimated Pct. Water Loss	27%

Total Distribution System Line Length = 195.63 miles (Distribution: 195.63 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Grayson Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21043038	Grayson: WTP Emergency Power Generators	0-2 Years	Not Funded	$333,000	Carter	1	1
WX21043040	Grayson: Keyhoe Water Line Extension Phase 2	3-5 Years	Not Funded	$150,000	Carter	10	4
WX21043037	Grayson: WTP Flocculation & Clarification System	0-2 Years	Not Funded	$2,638,000	Carter		
WX21043011	Grayson: In-Line Chlorinator Booster Stations	6-10 Years	Not Funded	$90,000	Carter		
WX21043010	Grayson: Fire Hydrant Upgrade	6-10 Years	Not Funded	$75,000	Carter		

System Summary for Olive Hill Water Department

PWSID	KY0220335	Treats Water	Yes, 1 plant with total capacity of 1.300 MGD.
System Type	Community	Surface Source	Yes, 2 sources.
Owner Type	Incorporated City	Groundwater Source	No
Employees	6	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$25.05 per 4,000 gallons.	Storage Capacity	Yes, 6 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	$40.00 per 4,000 gallons.	Total Connections	2,261
Residential Customers	2,088	Total Produced (MG)	285.889
Commercial Customers	173	Total Purchased (MG)	1.405
Institutional Customers	-	Total Inside Usage (MG)	224.820
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	22%

Total Distribution System Line Length = 101.84 miles (Distribution: 101.84 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Olive Hill Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21043042	Olive Hill: New Backwash Pump at WTP	0-2 Years	Not Funded	$85,000	Carter	4	3
WX21043041	Olive Hill: Replace Downtown Area Water Line	3-5 Years	Not Funded	$325,000	Carter	6	2
WX21043025	Olive Hill: Line Extensions and Upgrades	0-2 Years	Partially Funded	$525,000	Carter		

System Summary for Rattlesnake Ridge Water District

PWSID	KY0220555	Treats Water	Yes, 1 plant with total capacity of 2.484 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	10	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$54.84 per 4,000 gallons.	Wholesale Provider	Yes, to 3 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 11 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	4,028
Residential Customers	4,010	Total Produced (MG)	424.588
Commercial Customers	18	Total Purchased (MG)	2.955
Institutional Customers	-	Total Inside Usage (MG)	409.468
Industrial Customers	-	Total Wholesale Sold (MG)	5.432
Wholesale Customers	3	Estimated Pct. Water Loss	3%
Total Distribution System Line Length = 455.12 miles (Distribution: 455.12 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Rattlesnake Ridge Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21043028	RRWD: Carter County Line Extensions	3-5 Years	Not Funded	$628,750	Carter	14	5

Elliott County

- 2010 census population of 7,852 (3,371 households) with 92% serviceable.
- Projected 2020 population of 8,078 (change of 226).
- Elliott County has 274.87 miles of existing water lines.
- There are no line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- There are no projects planned from 0 to 5 years.
- There are no projects planned from 6 to 10 years.



Elliott County has a 2010 census population count of 7,852 (3,371 households) with a projected 2020 population count of 8,078 (3,011 households). Public water is currently available to approximately 92 percent of the county's households based on 2010 census counts. There are no projects proposed for this county over the next 10 years.

Community Drinking Water Systems in Elliott County

Note: Serviceability counts are for households within Elliott county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0320383	Sandy Hook Water District	Elliott	3,439	1,359
KY0220555	Rattlesnake Ridge Water District	Carter	3,289	1,448
KY1030375	Rowan Water, Inc	Rowan	585	301
		Totals:	7,313	3,108

WATER SERVICE AREAS
ELLIOTT COUNTY
Kentucky

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January, 2013

Water Resource Information System



WATER SERVICE BY OWNER
- RATTLESNAKE RIDGE WATER DISTRICT
- ROWAN WATER, INC
- SANDY HOOK WATER DISTRICT

System Summary for Sandy Hook Water District

PWSID	KY0320383	Treats Water	Yes, 1 plant with total capacity of 0.374 MGD.
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	Yes, 6 sources.
Employees	6	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	$42.80 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 4 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	1,286
Residential Customers	1,080	Total Produced (MG)	70.077
Commercial Customers	84	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	63.314
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	10%
Total Distribution System Line Length = 113.57 miles (Distribution: 108.96 miles, Transmission: 4.61 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Sandy Hook Water District

Greenup County

- 2010 census population of 36,910 (16,330 households) with 93% serviceable.
- Projected 2020 population of 36,923 (change of 13).
- Greenup County has 550.18 miles of existing water lines.
- 47.00 miles of line extensions proposed in the next 10 years.
- 1.00 miles of line rehabilitation proposed in the next 10 years.
- 10.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $29,542,048.
- Estimated funding needs for projects from 6 to 10 years: $71,400.



Greenup County has a 2010 census population count of 36,910 (16,330 households) with a projected 2020 population count of 36,923 (15,046 households). Public water is currently available to approximately 93 percent of the county's households based on 2010 census counts. Over the next ten years approximately 1,666 serviceable households will be added through the construction of 47.00 miles of water line extensions and approximately 22,694 instances of improved service through the rehabilitation of 1.00 miles of existing water lines and other appurtenances. 10.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Cannonsburg Water District	1	$112,000	11	-	1.00	-	-
City of Flatwoods	1	$1,000,000	-	3,000	-	-	-
City of Greenup	9	$5,531,260	80	3,563	32.00	-	8.00
City of Raceland	9	$1,850,988	1,443	3,820	3.00	1.00	1.00
City of Russell	3	$16,976,000	-	5,641	-	-	-
City of South Shore	2	$1,000,000	50	2,286	-	-	-
City of Worthington	4	$257,200	-	2,230	-	-	1.00
City of Wurtland	2	$165,000	-	654	-	-	-
Garrison-Quincy-Ky-O-Heights Water District	1	$2,500,000	76	-	9.00	-	-
Grayson Utility Commission	1	$150,000	6	-	2.00	-	-
Greenup County Fiscal Court	1	$71,000	-	1,500	-	-	-
Totals:	**34**	**$29,613,448**	**1,666**	**22,694**	**47.00**	**1.00**	**10.00**

Community Drinking Water Systems in Greenup County

Note: Serviceability counts are for households within Greenup county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0450132	Flatwoods Water Department	Greenup	8,028	3,551
KY0450169	Greenup Water Department	Greenup	10,277	4,466
KY0450365	Raceland Water Department	Greenup	3,185	1,446
KY0450376	Russell Water Department	Greenup	4,492	1,953
KY0450410	South Shore Water Department	Greenup	4,225	1,986
KY0450478	Worthington Water Department	Greenup	1,613	684
KY0450479	Wurtland Water Department	Greenup	1,476	632
KY0100011	Ashland Water Department	Boyd	124	53
KY0100064	Cannonsburg Water District	Boyd	449	191
KY0220164	Grayson Water Department	Carter	369	154
		Totals:	34,238	15,116

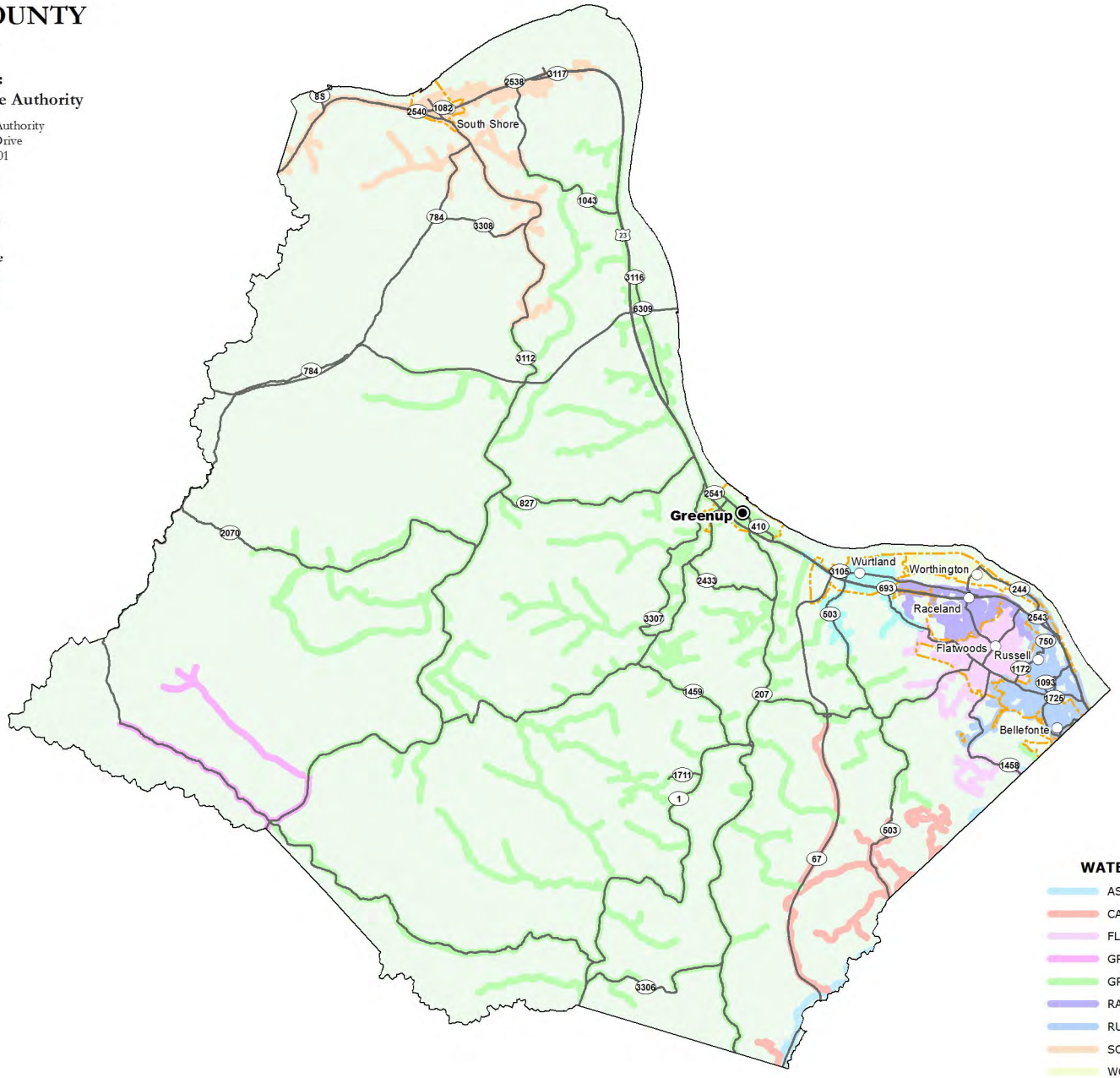
WATER SERVICE AREAS
GREENUP COUNTY
Kentucky

Prepared By:
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January, 2013

Water Resource Information System



System Summary for Flatwoods Water Department

PWSID	KY0450132	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	9	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	-	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	$23.44 per 4,000 gallons.	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$32.78 per 4,000 gallons.	Total Connections	3,197
Residential Customers	3,021	Total Produced (MG)	-
Commercial Customers	174	Total Purchased (MG)	339.564
Institutional Customers	-	Total Inside Usage (MG)	160.500
Industrial Customers	-	Total Wholesale Sold (MG)	55.971
Wholesale Customers	2	Estimated Pct. Water Loss	36%
Total Distribution System Line Length = 56.55 miles (Distribution: 56.55 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Flatwoods Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21089074	Flatwoods: Radio Read Meter Project	0-2 Years	Partially Funded	$1,000,000	Greenup		

System Summary for Greenup Water Department

PWSID	KY0450169	Treats Water	Yes, 1 plant with total capacity of 2.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	15	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$34.64 per 4,000 gallons.	Storage Capacity	Yes, 7 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	$43.56 per 4,000 gallons.	Total Connections	4,089
Residential Customers	4,063	Total Produced (MG)	365.000
Commercial Customers	26	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	265.675
Industrial Customers	-	Total Wholesale Sold (MG)	6.819
Wholesale Customers	1	Estimated Pct. Water Loss	25%

Total Distribution System Line Length = 301.38 miles (Distribution: 301.31 miles, Transmission: 0.07 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Greenup Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21089013	Greenup: New Water Intake Structure	3-5 Years	Partially Funded	$1,100,000	Greenup		
WX21089042	Greenup: Water Treatment Plant Upgrades	3-5 Years	Not Funded	$919,000	Greenup		
WX21089046	Greenup: AA Highway System Loop	0-2 Years	Not Funded	$919,000	Greenup		
WX21089071	Greenup: Argillite Water Tank Replacement	0-2 Years	Not Funded	$750,000	Greenup		
WX21089047	Greenup: Industrial Parkway System Loop	0-2 Years	Not Funded	$600,000	Greenup		
WX21089081	Greenup: Phase 9 Waterline Extensions and System Improvements	0-2 Years	Not Funded	$598,260	Greenup		
WX21089058	Greenup: Rt 2 Raccoon Creek Waterline Extension	0-2 Years	Not Funded	$585,000	Greenup		
WX21089048	GCFC: New Pump Station for Greenup Water System	3-5 Years	Not Funded	$71,000	Greenup		
WX21089020	Greenup: Upper Hog Branch Road	3-5 Years	Not Funded	$40,000	Greenup		
WX21089044	Greenup: Lloyd Fire Hydrant Project	0-2 Years	Not Funded	$20,000	Greenup		

System Summary for Raceland Water Department

PWSID	KY0450365	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	6	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$26.69 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	$26.69 per 4,000 gallons.	Total Connections	1,380
Residential Customers	1,380	Total Produced (MG)	-
Commercial Customers	-	Total Purchased (MG)	112.758
Institutional Customers	-	Total Inside Usage (MG)	116.406
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	-3%

Total Distribution System Line Length = 25.90 miles (Distribution: 25.90 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Raceland Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21089065	Raceland: Leak Detection Survey for Water Loss Abatement	0-2 Years	Not Funded	$19,488	Greenup	7	4
WX21089061	Raceland: Relocate RR Water Main to Corkey Lane	0-2 Years	Not Funded	$236,100	Greenup	8	3
WX21089073	Raceland: Caroline Road Waterline Extension	0-2 Years	Not Funded	$65,000	Greenup	11	6
WX21089063	Raceland: Water Meter Replacement Project	0-2 Years	Not Funded	$369,900	Greenup	12	7
WX21089053	Raceland: System Loop along US 23 from Caroline Rd to Buckenham	0-2 Years	Not Funded	$395,500	Greenup		
WX21089032	Raceland: Phase 10 West Raceland Water Tank	0-2 Years	Not Funded	$325,000	Greenup		
WX21089030	Raceland: Phase 8 Caroline Road System Loop & Extension to Race Track Hill	0-2 Years	Not Funded	$165,000	Greenup		
WX21089031	Raceland: Phase 9 System Loop Along US23 From Pond Run to Caroline Road	0-2 Years	Not Funded	$150,000	Greenup		
WX21089049	Raceland: Chlorine Booster Stations and Telemetry System	0-2 Years	Not Funded	$125,000	Greenup		

System Summary for Russell Water Department

PWSID	KY0450376	Treats Water	Yes, 1 plant with total capacity of 2.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	12	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	$26.25 per 4,000 gallons.	Storage Capacity	Yes, 4 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	$27.65 per 4,000 gallons.	Total Connections	3,635
Residential Customers	3,397	Total Produced (MG)	583.970
Commercial Customers	238	Total Purchased (MG)	1.376
Institutional Customers	-	Total Inside Usage (MG)	188.469
Industrial Customers	2	Total Wholesale Sold (MG)	304.383
Wholesale Customers	2	Estimated Pct. Water Loss	16%
Total Distribution System Line Length = 49.21 miles (Distribution: 46.15 miles, Transmission: 3.06 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Russell Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21089011	Russell: New Water Treatment Plant	0-2 Years	Not Funded	$16,000,000	Greenup	2	1
WX21089068	Russell: Construct New 500,000 Gallon Water Tank	3-5 Years	Not Funded	$836,000	Greenup	5	2
WX21089079	Russell: Upgrade 2 Pump Stations	0-2 Years	Not Funded	$140,000	Greenup	13	8

System Summary for South Shore Water Department

PWSID	KY0450410	Treats Water	Yes, 1 plant with total capacity of 0.925 MGD.
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	Yes, 11 sources.
Employees	2	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$22.70 per 4,000 gallons.	Storage Capacity	Yes, 5 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$22.70 per 4,000 gallons.	Total Connections	2,040
Residential Customers	1,861	Total Produced (MG)	162.305
Commercial Customers	179	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	115.273
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	1	Estimated Pct. Water Loss	29%

Total Distribution System Line Length = 57.35 miles (Distribution: 56.86 miles, Transmission: 0.49 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for South Shore Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21089067	South Shore: WTP Upgrade	0-2 Years	Not Funded	$500,000	Greenup	9	5
WX21089075	South Shore: Killen Hollow Water Tank Upgrade with Line Extensions	0-2 Years	Not Funded	$500,000	Greenup		
WX21089070	COSS: Interconnect with Garrison Water	0-2 Years	Not Funded	$94,500	Greenup		
WX21089066	GCFC: McKell Library Water	3-5 Years	Not Funded	$25,000	Greenup		

System Summary for Worthington Water Department

PWSID	KY0450478	Treats Water	Yes, 1 plant with total capacity of 0.245 MGD.
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	Yes, 3 sources.
Employees	6	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$28.94 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	$28.94 per 4,000 gallons.	Total Connections	684
Residential Customers	680	Total Produced (MG)	66.065
Commercial Customers	1	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	65.873
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	0%
Total Distribution System Line Length = 10.55 miles (Distribution: 10.41 miles, Transmission: 0.14 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Worthington Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21089040	Worthington: Worthington Ave & Prospect Ave Loop	0-2 Years	Not Funded	$110,000	Greenup		
WX21089005	Worthington: Clean out Wells to Increase Output	6-10 Years	Not Funded	$71,400	Greenup		
WX21089041	Worthington: Calumet Causeway Water Project	0-2 Years	Not Funded	$55,000	Greenup		
WX21089072	Worthington: Valve Replacement Project Systemwide	3-5 Years	Not Funded	$20,800	Greenup		

System Summary for Wurtland Water Department

PWSID	KY0450479	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	1	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$32.50 per 4,000 gallons.	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$32.50 per 4,000 gallons.	Total Connections	582
Residential Customers	572	Total Produced (MG)	-
Commercial Customers	16	Total Purchased (MG)	40.126
Institutional Customers	-	Total Inside Usage (MG)	33.900
Industrial Customers	4	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	16%

Total Distribution System Line Length = 18.27 miles (Distribution: 18.27 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Wurtland Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21089062	Wurtland: Radio Read Meters	3-5 Years	Not Funded	$150,000	Greenup		
WX21089059	Wurtland: Industrial Parkway Water Project	0-2 Years	Not Funded	$50,000	Greenup		
WX21089024	Wurtland: Adena Water Tank Security	0-2 Years	Not Funded	$15,000	Greenup		

Lawrence County

- 2010 census population of 15,860 (7,286 households) with 91% serviceable.
- Projected 2020 population of 16,192 (change of 332).
- Lawrence County has 422.37 miles of existing water lines.
- There are no line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $1,385,000.
- There are no projects planned from 6 to 10 years.



Lawrence County has a 2010 census population count of 15,860 (7,286 households) with a projected 2020 population count of 16,192 (6,647 households). Public water is currently available to approximately 91 percent of the county's households based on 2010 census counts. Over the next ten years approximately 2,546 instances of improved service through system wide upgrades.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Louisa Water and Sewer Commission	1	$1,385,000	-	2,546	-	-	-
Totals:	**1**	**$1,385,000**	**-**	**2,546**	**-**	**-**	**-**

Community Drinking Water Systems in Lawrence County

Note: Serviceability counts are for households within Lawrence county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0640257	Louisa Water Department	Lawrence	5,476	2,474
KY0100944	Big Sandy Water District	Boyd	7,160	3,240
KY0220555	Rattlesnake Ridge Water District	Carter	1,153	588
KY0580340	Paintsville Utility Commission	Johnson	655	302
		Totals:	14,444	6,604

WATER SERVICE AREAS
LAWRENCE COUNTY
Kentucky

Prepared By:
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January, 2013

Water Resource Information System



System Summary for Louisa Water Department

PWSID	KY0640257	Treats Water	Yes, 1 plant with total capacity of 3.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Municipal Utility Board or Commission	Groundwater Source	No
Employees	16	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$32.41 per 4,000 gallons.	Storage Capacity	Yes, 6 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	$41.87 per 4,000 gallons.	Total Connections	2,733
Residential Customers	2,388	Total Produced (MG)	435.000
Commercial Customers	343	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	181.349
Industrial Customers	-	Total Wholesale Sold (MG)	90.218
Wholesale Customers	1	Estimated Pct. Water Loss	38%
Total Distribution System Line Length = 79.96 miles (Distribution: 75.24 miles, Transmission: 4.72 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Louisa Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21127006	Louisa WTP Water Intake Improvements Phase 2	3-5 Years	Not Funded	$1,385,000	Lawrence		

Green River Area Development District (GRADD)



- 2010 census population of 213,472 (92,066 households) with 97% serviceable.
- Projected 2020 population of 220,544 (change of 7,072).
- 3,998.11 miles of existing water lines.
- 124.00 miles of line extensions proposed in the next 10 years.
- 80.00 miles of line rehabilitation proposed in the next 10 years.
- 59.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $79,747,730.
- Estimated funding needs for projects from 6 to 10 years: $18,078,111.
- Average age of structures: water treatment plants is 34 years; water tanks is 28 years.
- Total number of interconnected systems is 30.
- 183 miles of asbestos concrete pipe currently in use.
- 697 miles of water lines less than 15 years old.
- 1,409 miles of water lines between 15 and 30 years old.
- 1,461 miles of water lines between 31 and 50 years old.
- 264 miles of water lines between 51 and 70 years old.
- 203 miles of water lines greater than 70 years old.

Green River Area Development District has a 2010 census population count of 213,472 (92,066 households) with a projected 2020 population count of 220,544 (89,593 households). Public water is currently available to approximately 97 percent of the district's households based on 2010 census counts. Over the next ten years approximately 931 serviceable households will be added through the construction of 124.00 miles of water line extensions and approximately 130,896 instances of improved service through the rehabilitation of 80.00 miles of existing water lines and other appurtenances. 59.00 miles of transmission lines are also proposed within this district.

County Summary for Green River Area Development District

County Name	2010 Population	2010 Households	2020 Population	2020 Households	Serviceable Households	Percent Serviceable	Planned Cost 0 to 10 Years
Daviess	96,656	41,452	102,214	41,878	39,695	96%	$ 3,464,878
Hancock	8,565	3,734	8,843	3,502	3,686	99%	$ 4,944,646
Henderson	46,250	20,320	47,600	19,851	20,069	99%	$ 42,477,709
McLean	9,531	4,264	9,271	3,821	4,083	96%	$ 25,919,958
Ohio	23,842	10,219	24,781	9,786	9,888	97%	$ 4,269,250
Union	15,007	6,141	14,436	5,463	5,883	96%	$ 2,899,601
Webster	13,621	5,936	13,399	5,292	5,732	97%	$ 13,849,799
Totals	**213,472**	**92,066**	**220,544**	**89,593**	**89,036**	**97%**	**$ 97,825,841**

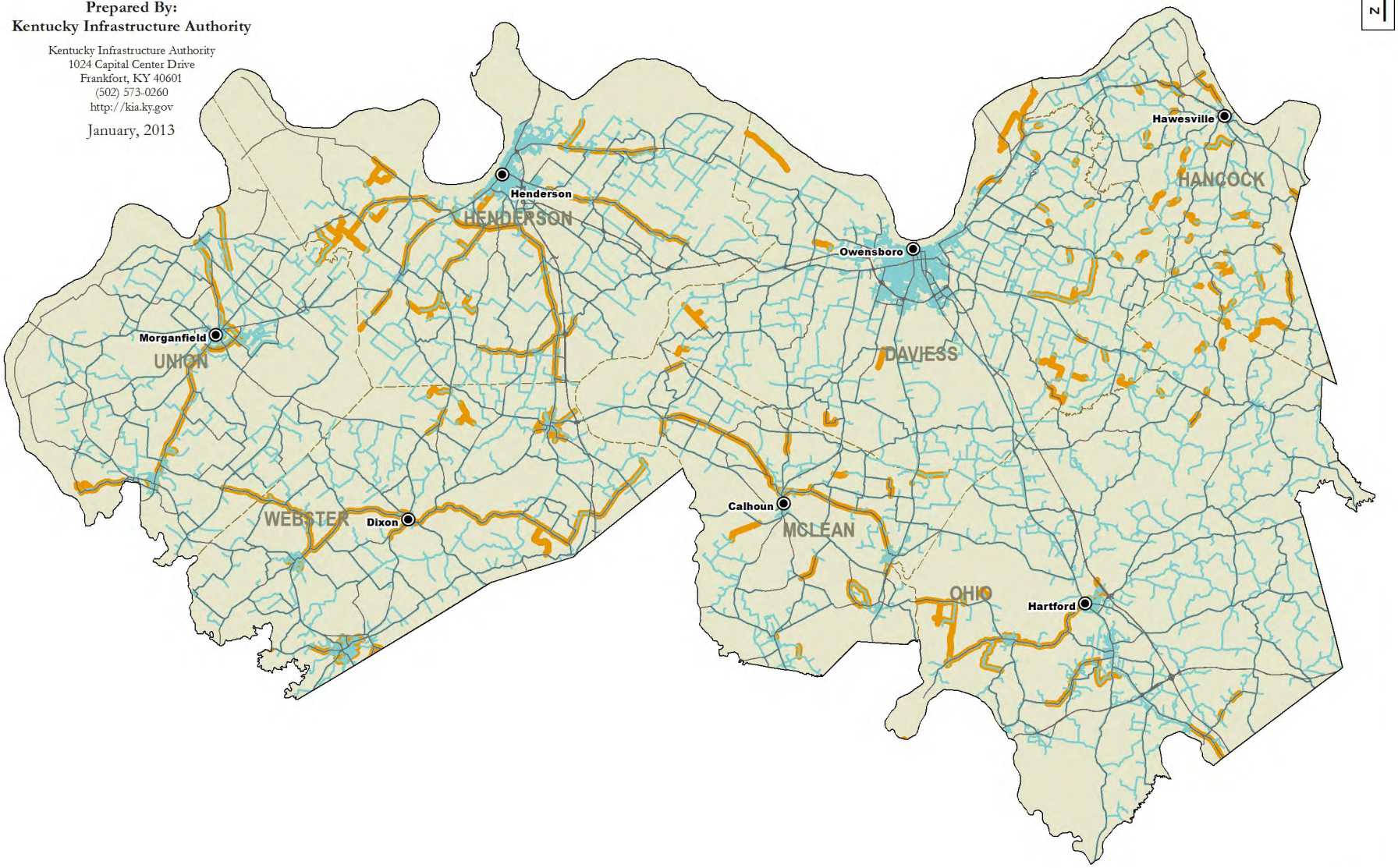
EXISTING & PROPOSED WATER LINES

GRADD

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January, 2013



WATER LINES

- Proposed Water Lines
- Existing Water Lines

Water Resource Information System

Community Water Systems in Green River Area Development District County

Note: Serviceable counts include households outside the area development district.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0300109	East Daviess County Water Association	Daviess	11,128	4,519
KY0300336	Owensboro Municipal Utilities	Daviess	58,408	26,473
KY0300387	Southeast Daviess County Water District	Daviess	11,580	4,521
KY0300450	West Daviess County Water District	Daviess	10,708	4,246
KY0300467	Whitesville Water Works	Daviess	3,483	1,325
KY0460182	Hawesville Water Works	Hancock	2,749	1,193
KY0460248	Lewisport Municipal Water Works	Hancock	2,595	1,166
KY0510189	Henderson County Water District	Henderson	16,024	6,468
KY0510188	Henderson Water Utility - North	Henderson	30,098	13,760
KY0750529	Beech Grove Water Association	McLean	1,130	493
KY0750055	Calhoun Water Works	McLean	973	489
KY0750207	Island Water Department	McLean	1,056	471
KY0750252	Livermore Water Works	McLean	1,426	679
KY0300320	North McLean County Water District	McLean	2,946	1,223
KY0750907	Sacramento Water Works	McLean	1,824	823
KY0920025	Beaver Dam Municipal Water & Sewer System	Ohio	3,595	1,527
KY0920070	Centertown Water System	Ohio	1,139	478
KY0920136	Fordsville Water Works	Ohio	925	426
KY0920181	Hartford Municipal Water Works	Ohio	2,704	1,166
KY0920332	Ohio County Water District	Ohio	14,790	6,311
KY1130293	Morganfield Water Works	Union	5,553	1,910
KY1130422	Sturgis Water Works	Union	2,453	1,192
KY1130433	Union County Water District	Union	5,258	2,255
KY1130434	Uniontown Water & Sewer Department	Union	1,142	522
KY1170073	Clay Water Works	Webster	1,290	555
KY1170104	Dixon Water Department	Webster	650	231
KY1170361	Providence Water Works	Webster	3,598	1,779
KY1170388	Sebree Water Department	Webster	1,596	601
KY1170400	Slaughters Water Works	Webster	584	248
KY1170995	Webster County Water District	Webster	5,305	2,237
		Totals:	206,710	89,287

Green River Area Development District
Regional Water Needs Assessment

Primary Need: **Repair and Replace Existing Infrastructure**
Secondary Need: **Source Protection**

Discussion of Area Development District Needs:

The GRADD region covers seven counties and their individual needs vary widely. The counties all know the importance and value of rationalization and regional projects and strive to build them. However, these individual systems do have other needs that need to be addressed on a daily basis, while regional projects can take years to plan and complete.

In the GRADD region, the primary and most important need is the repair and replacement of existing infrastructure. All seven counties of the GRADD region have repair and replacement of existing infrastructure as either their primary or secondary need. Under this need, the most important aspect is repair/replacement of aging water lines to eliminate water loss, improve pressure, and improve water quality. In addition, this need extends to repairing/replacing equipment in the water distribution system such as water pumps and water tanks.

The secondary need of the area is source protection. The need for this varies, but each of the systems in the GRADD region have projects that they have looked at that will protect their source of water. These source protection projects vary from emergency interconnects, work needed at water plants and repair work needed to raw water and transmission lines. However, the three counties of Hancock, Ohio and Union all have direct projects that are looking at protect their water sources.

Description and Determination of Planning Units:

The GRADD Water Management Council adopted the GRADD geographical boundary as its services area. Additional areas were also incorporated into the planning area based on the service areas of the water providers located in the GRADD district. For example, Barren River ADD incorporated a small portion of Ohio County into their planning area based on the service area of one of the water providers in their district.

The following systems serve communities in the Green River Area Development District, and their service areas are included in the Water Management Planning Area:

*Daviess County
1. East Daviess County Water Association
2. Owensboro Municipal Utilities
3. Southeast Daviess County Water District
4. West Daviess County Water District
5. Whitesville Water Works

*Hancock County
1. Hawesville Water Works
2. Lewisport Municipal Water Works

*Henderson County
1. Henderson County Water District
2. Henderson Water Utility--North
3. Henderson Water Utility--South

*McLean County
1. Beech Grove Water Board
2. Calhoun Water Works
3. Island Water Department
4. North McLean County Water District
5. Livermore Water Works
6. Sacramento Water Works

*Ohio County
1. Beaver Dam Municipal Water
2. Fordsville Water Works
3. Hartford Municipal Water Works
4. Ohio County Water District

*Union County
1. Morganfield Water Works
2. Sturgis Water Works
3. Union County Water District
4. Uniontown Water Department

*Webster County
1. Clay Water Works
2. Dixon Water Department
3. Providence Water Works
4. Sebree Water Department
5. Slaughters Water Works
6. Webster County Water District

Green River Area Development District
Project Ranking Methodology

Basic Information

- Project County
- Project Owner
- WRIS Project Number
- Project Description
- Estimated Project Cost

Type of Project

Unserved

• 9 or more per mile	20 pts
• 7-8 per mile	19 pts
• 5-6 per mile	18 pts
• 3-4 per mile	15 pts
• 1-2 per mile	10 pts
• <1 per mile	5 pts

Underserved

• 80-100% total customer base impacted	20 pts
• 60-79% total customer base impacted	19 pts
• 40-59% total customer base impacted	18 pts
• 20-39% total customer base impacted	15 pts
• 10-19% total customer base impacted	10 pts
• less than 10% customer base impacted	5 pts

Economic Development

• 100 or more jobs created or retained	20 pts
• 75-99 jobs created or retained	19 pts
• 50-74 jobs created or retained	18 pts
• 20-49 jobs created or retained	15 pts
• 10-19 jobs created or retained	10 pts
• less than 10 jobs created or retained	5 pts

Other (a project that does not meet above criteria, i.e. a building for chemicals)

- 3 pts

Combination

- If a project is a combination of the above, whichever category the project scored higher in (unserved, underserved, or economic development) the project will get those points, plus 3 additional pts

Maximum of 20 points for this section

Delivery Area

• Regional – Consolidation into single system	30 pts
• Regionalization of a WTP or WWTP	20 pts
• Project benefits multiple systems/communities	15 pts
• Project benefits two systems/communities	10 pts
• Non-regional	5 pts
• Non-regional project that eliminates a lift station/ package treatment plant/pump station	10 pts

Project Status

- Engineering plans and specs submitted to DOW 20 pts
- PER 15 pts
- Engineering procurement completed 10 pts
- Cost estimate by PE 10 pts
- Preliminary planning by system 5 pts

Funding Status

A project costing greater than $100,000

1. Funding committed for 50% or more 20 pts
2. Funding committed for 25-49% 10 pts
3. Funding committed for 1-24% 5 pts
4. Pending applications 3 pts

A project costing less than $100,000

1. 10 pts as long as the project is in one of the above four processes

Environmental Factors

Any project can receive as many (or none) of the points below

- Water loss reduction/I&I reduction 5 pts
- Replacing inefficient pumps/motors with high efficiency ones 5 pts
- Use of some other Green Technology not listed above 5 pts

Tie breaker is cost per connection

County Ranking

The highest scoring project in a county will be the number one ranking project for that county. The number two and subsequently ranked projects will follow in order of next highest scoring. The top five ranked projects in the county will be sent to be ranked regionally; however, all county ranked projects will still be submitted to KIA.

Regional Ranking

The highest scoring projects in the region will be determined from the highest ranked projects in the counties.

Project Rankings For Green River Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21233017	Clayton Avenue Waterline Rehab Project	3-5 Years	Partially Funded	$106,459	Webster	1	1
WX21091096	Hancock County Fiscal Court Water Lines Improvements	0-2 Years	Not Funded	$39,065	Hancock	2	1
WX21183038	Rochester Dam Regional Water Commission	0-2 Years	Not Funded	$3,300,000	Ohio	3	1
WX21233090	Hwy 132 - Hwy 109 S. Water Line Replacement and West Elm Replace	3-5 Years	Not Funded	$84,000	Webster	4	3
WX21233009	Webster County Water District Water Tank Maintenance/ Mixing System	3-5 Years	Not Funded	$500,000	Webster	5	2
WX21059032	Sawmill Road Water Line Extension	6-10 Years	Not Funded	$51,300	Daviess	6	1
WX21091056	Hawesville/Lewisport Emergency Interconnection	3-5 Years	Not Funded	$76,500	Hancock	7	2
WX21225021	Morganfield Raw Water Main Replacement Continuation Project	3-5 Years	Partially Funded	$3,200,000	Union	8	1
WX21059026	Yelvington Grandview Road Water Line	3-5 Years	Not Funded	$14,178	Daviess	9	2
WX21059031	Ward Road Water Line Upgrade	3-5 Years	Not Funded	$197,675	Daviess	10	3
WX21059045	Jack Hinton Road Water Main Project	3-5 Years	Not Funded	$499,280	Daviess	11	4
WX21233102	Reworking Mt. Pleasant to Dixon Pumpstation	0-2 Years	Not Funded	$80,000	Webster	12	4
WX21101001	North System Improvements	3-5 Years	Not Funded	$2,100,000	Henderson	13	1
WX21225044	Highway 130 Water Main Replacement Project	0-2 Years	Not Funded	$116,370	Union	14	2
WX21059030	Morgantown Road Water Line Loop	3-5 Years	Not Funded	$72,500	Daviess	15	5
WX21183036	Rehab Sunnydale Pump Station	6-10 Years	Not Funded	$25,000	Ohio	16	2
WX21149022	431 Tank Project	0-2 Years	Partially Funded	$1,488,000	McLean	17	1
WX21149061	Sacramento Scattered Line Replacement	11-20 Years	Not Funded	$60,000	McLean	18	2
WX21225039	East Side Water Line Extension	0-2 Years	Not Funded	$50,000	Union	19	3
WX21091082	Hawesville Water Treatment Plant Upgrade	3-5 Years	Not Funded	$300,000	Hancock	20	3
WX21091062	Windward Heights Water Line Rehab	6-10 Years	Not Funded	$400,000	Hancock	21	4
WX21091075	Lewisport/EDCWA Emergency Interconnect	3-5 Years	Not Funded	$41,000	Hancock	22	5
WX21183033	Fordsville Water Loss Project	0-2 Years	Not Funded	$246,550	Ohio	23	4
WX21233095	Providence Line Extension	6-10 Years	Not Funded	$1,000,000	Webster	24	5
WX21101116	Henderson Riverport Infrastructure Extension, Water Line	0-2 Years	Not Funded	$66,788	Henderson	25	2
WX21149037	Garrett Street Water Line Improvements Project	3-5 Years	Not Funded	$53,880	McLean	26	3
WX21101108	US 41 South A/C Main Replacement	3-5 Years	Not Funded	$1,046,452	Henderson	27	3
WX21149058	Sacramento Water Meter Replacement	3-5 Years	Not Funded	$150,000	McLean	28	4
WX21101009	HWU - South Water Treatment Plant Expansion	3-5 Years	Not Funded	$3,500,000	Henderson	29	4
WX21149005	Beech Grove Water System Storage Tank Addition	0-2 Years	Not Funded	$1,305,650	McLean	30	5
WX21183021	Oak Wood Drive Water Main Replacement	6-10 Years	Not Funded	$132,000	Ohio	31	3
WX21183039	Ohio County Water District Water Main Upgrade Project	0-2 Years	Not Funded	$1,630,000	Ohio	32	5
WX21225045	Morganfield Combined Sewer Separation Project Phase 3	3-5 Years	Not Funded	$450,000	Union	33	4
WX21225046	Uniontown Water Tanks and Repair Project	6-10 Years	Not Funded	$200,000	Union	34	5

Project Rankings For Green River Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21101110	Hwy 351 Main Replacement	0-2 Years	Not Funded	$1,550,219	Henderson	35	5
			Total Cost:	**$24,132,866**			

Daviess County

- 2010 census population of 96,656 (41,452 households) with 96% serviceable.
- Projected 2020 population of 102,214 (change of 5,558).
- Daviess County has 1,026.97 miles of existing water lines.
- 33.00 miles of line extensions proposed in the next 10 years.
- 7.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $3,331,578.
- Estimated funding needs for projects from 6 to 10 years: $133,300.



Daviess County has a 2010 census population count of 96,656 (41,452 households) with a projected 2020 population count of 102,214 (41,878 households). Public water is currently available to approximately 96 percent of the county's households based on 2010 census counts. Over the next ten years approximately 109 serviceable households will be added through the construction of 33.00 miles of water line extensions and approximately 8,867 instances of improved service through the rehabilitation of 7.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Whitesville	4	$373,475	39	1,355	3.00	-	-
Daviess County Fiscal Court	17	$905,523	47	-	22.00	-	-
East Daviess County Water Association Inc	5	$1,255,880	23	7,130	8.00	6.00	-
McLean County Fiscal Court	1	$300,000	-	12	-	-	-
Owensboro Municipal Utilities	2	$600,000	-	170	-	1.00	-
Southeast Daviess County Water District	1	$30,000	-	200	-	-	-
Totals:	**30**	**$3,464,878**	**109**	**8,867**	**33.00**	**7.00**	**-**

Community Drinking Water Systems in Daviess County

Note: Serviceability counts are for households within Daviess county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0300109	East Daviess County Water Association	Daviess	6,590	2,585
KY0300336	Owensboro Municipal Utilities	Daviess	58,408	26,473
KY0300387	Southeast Daviess County Water District	Daviess	11,580	4,521
KY0300450	West Daviess County Water District	Daviess	10,649	4,222
KY0300467	Whitesville Water Works	Daviess	3,340	1,270
KY0750529	Beech Grove Water Association	McLean	123	45
KY0300320	North McLean County Water District	McLean	169	70
KY0920332	Ohio County Water District	Ohio	1,305	506
		Totals:	92,164	39,692

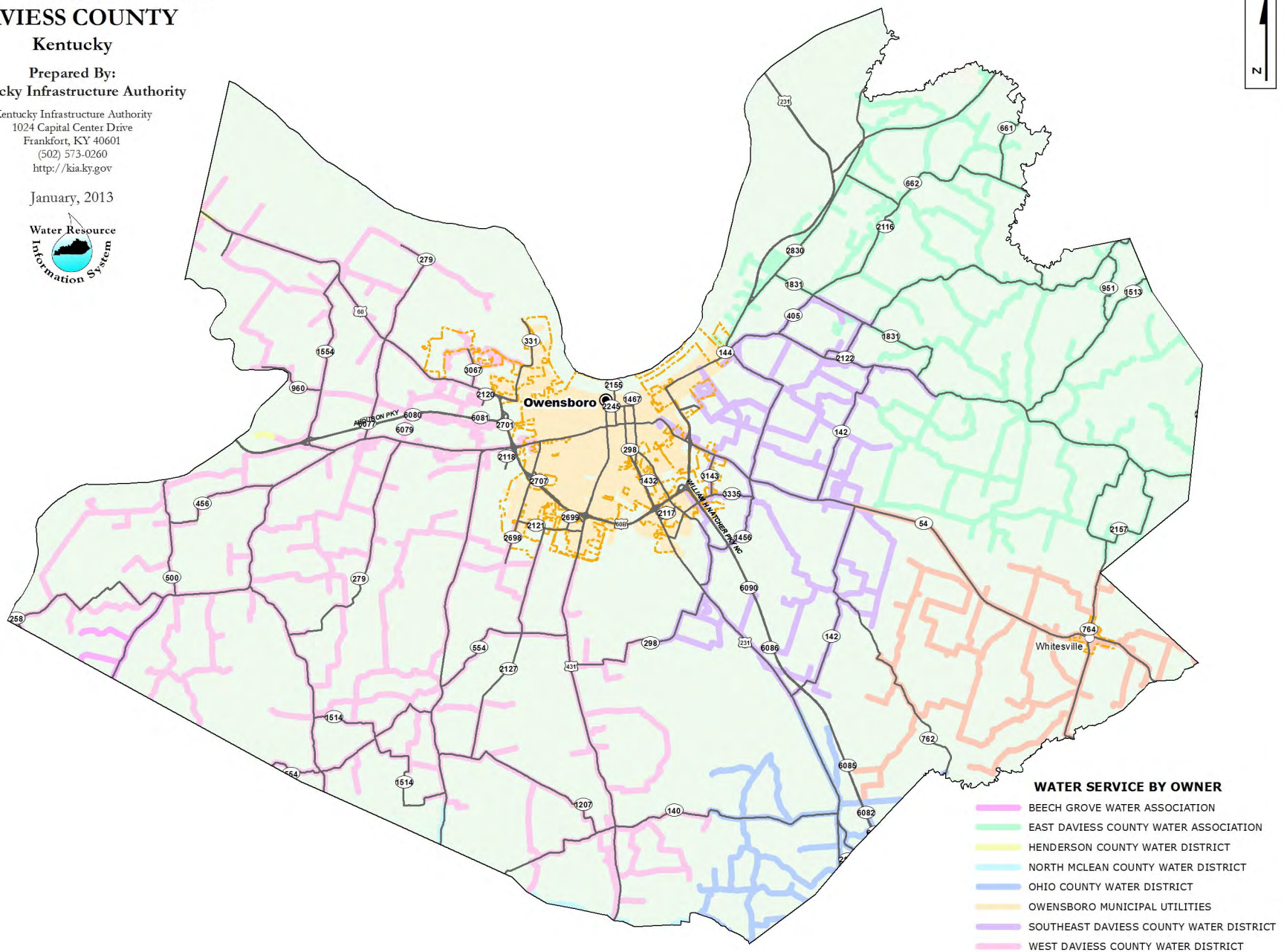
WATER SERVICE AREAS
DAVIESS COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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January, 2013

Water Resource Information System



System Summary for East Daviess County Water Association

PWSID	KY0300109	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water Association	Groundwater Source	No
Employees	8	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$24.99 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 7 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	4,419
Residential Customers	4,329	Total Produced (MG)	-
Commercial Customers	55	Total Purchased (MG)	301.000
Institutional Customers	-	Total Inside Usage (MG)	249.394
Industrial Customers	14	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	17%
Total Distribution System Line Length = 430.21 miles (Distribution: 423.89 miles, Transmission: 6.32 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for East Daviess County Water Association

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21059026	Yelvington Grandview Road Water Line	3-5 Years	Not Funded	$14,178	Daviess	9	2
WX21059045	Jack Hinton Road Water Main Project	3-5 Years	Not Funded	$499,280	Daviess	11	4
WX21183036	Rehab Sunnydale Pump Station	6-10 Years	Not Funded	$25,000	Ohio	16	2
WX21091075	Lewisport/EDCWA Emergency Interconnect	3-5 Years	Not Funded	$41,000	Hancock	22	5
WX21091074	EDCWA Meter Replacement Project (Hancock)	3-5 Years	Not Funded	$251,200	Hancock		6
WX21091091	Rehab Highway 1389 Pump Station	6-10 Years	Not Funded	$69,000	Hancock		7
WX21183037	Rehab Friendship Pump Station	3-5 Years	Not Funded	$20,700	Ohio		8
WX21059027	EDCWA Scattered Water Line Extension #2	3-5 Years	Not Funded	$325,400	Daviess		9
WX21059050	Grandview Road Water Line	3-5 Years	Not Funded	$57,975	Daviess		10
WX21183022	EDCWA Small Main Connections	0-2 Years	Not Funded	$153,000	Ohio		11
WX21059051	Highway 334 Line Extension	3-5 Years	Not Funded	$17,033	Daviess		11
WX21091012	East Daviess County/Hancock County Line Extension Tie-Ins	3-5 Years	Not Funded	$440,000	Hancock		12
WX21183027	EDCWA Meter Replacement	0-2 Years	Not Funded	$120,000	Ohio		12
WX21091092	Yakel Pump Station Rehab Project	3-5 Years	Not Funded	$20,700	Hancock		14
WX21091085	Mount Eden Fire Protection Project	3-5 Years	Not Funded	$75,000	Hancock		17
WX21091093	Bates Hollow Pump Station Rehab Project	6-10 Years	Not Funded	$69,000	Hancock		20
WX21059073	Iceland Road Water Line Extension	0-2 Years	Not Funded	$55,045	Daviess		20
WX21059046	East Daviess County Water Association Generator Project	3-5 Years	Not Funded	$60,000	Daviess		23

System Summary for Owensboro Municipal Utilities

PWSID	KY0300336	Treats Water	Yes, 2 plants with total capacity of 30.000 MGD.
System Type	Community	Surface Source	No
Owner Type	Municipal Utility Board or Commission	Groundwater Source	Yes, 34 sources.
Employees	31	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 3 purchasers.
Inside Mun. Cost	$18.75 per 4,000 gallons.	Storage Capacity	Yes, 3 tanks with total capacity of 4.000 MG.
Outside Mun. Cost	$28.19 per 4,000 gallons.	Total Connections	25,300
Residential Customers	23,280	Total Produced (MG)	4,592.000
Commercial Customers	1,484	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	3,051.000
Industrial Customers	-	Total Wholesale Sold (MG)	1,341.000
Wholesale Customers	3	Estimated Pct. Water Loss	4%
Total Distribution System Line Length = 337.69 miles (Distribution: 331.31 miles, Transmission: 6.38 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Owensboro Municipal Utilities

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21059043	OMU Small Main Replacement Program 2009	3-5 Years	Not Funded	$300,000	Daviess		21
WX21059044	OMU Small Main Replacement Program 2009 Phase II	3-5 Years	Not Funded	$300,000	Daviess		22

System Summary for Southeast Daviess County Water District

PWSID	KY0300387	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	13	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$16.33 per 4,000 gallons.	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 6 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	-	Total Connections	6,734
Residential Customers	6,490	Total Produced (MG)	-
Commercial Customers	244	Total Purchased (MG)	615.000
Institutional Customers	-	Total Inside Usage (MG)	471.000
Industrial Customers	-	Total Wholesale Sold (MG)	93.000
Wholesale Customers	1	Estimated Pct. Water Loss	8%
Total Distribution System Line Length = 112.38 miles (Distribution: 112.38 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Southeast Daviess County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21059055	Reed Road Pump Upgrade	6-10 Years	Not Funded	$30,000	Daviess		15

System Summary for West Daviess County Water District

PWSID	KY0300450	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	13	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$19.62 per 4,000 gallons.	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 4 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	4,868
Residential Customers	4,667	Total Produced (MG)	-
Commercial Customers	131	Total Purchased (MG)	425.000
Institutional Customers	-	Total Inside Usage (MG)	345.000
Industrial Customers	-	Total Wholesale Sold (MG)	8.600
Wholesale Customers	2	Estimated Pct. Water Loss	17%
Total Distribution System Line Length = 270.81 miles (Distribution: 269.96 miles, Transmission: 0.85 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for West Daviess County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21059054	Greenback Road	0-2 Years	Not Funded	$55,500	Daviess		12
WX21059056	Lee Rudy Road Extension	3-5 Years	Not Funded	$37,500	Daviess		13
WX21059059	Fitts Road Water Line	0-2 Years	Partially Funded	$53,000	Daviess		27
WX21059053	McCarty Road/Smock Road Water Lines	0-2 Years	Partially Funded	$91,032	Daviess		28
WX21059039	Laketown Road Waterline Extension	3-5 Years	Partially Funded	$132,000	Daviess		30
WX21059004	Hall School Road Project	0-2 Years	Partially Funded	$46,420	Daviess		32

System Summary for Whitesville Water Works

PWSID	KY0300467	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	4	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$24.14 per 4,000 gallons.	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$26.79 per 4,000 gallons.	Total Connections	1,342
Residential Customers	1,316	Total Produced (MG)	-
Commercial Customers	25	Total Purchased (MG)	93.000
Institutional Customers	-	Total Inside Usage (MG)	81.953
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	12%

Total Distribution System Line Length = 75.17 miles (Distribution: 74.16 miles, Transmission: 1.00 miles).

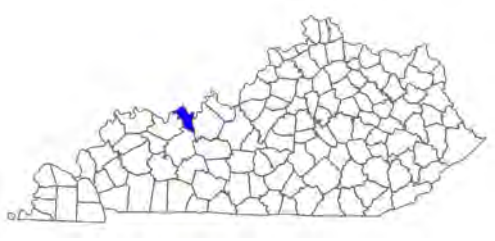
MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Whitesville Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21059032	Sawmill Road Water Line Extension	6-10 Years	Not Funded	$51,300	Daviess	6	1
WX21059031	Ward Road Water Line Upgrade	3-5 Years	Not Funded	$197,675	Daviess	10	3
WX21059030	Morgantown Road Water Line Loop	3-5 Years	Not Funded	$72,500	Daviess	15	5
WX21059065	Melba Lane Extension	3-5 Years	Not Funded	$87,840	Daviess		14
WX21059062	Boston-Laffoon Road Water Line	3-5 Years	Not Funded	$23,800	Daviess		17
WX21059063	Texas Gas Road Extension	0-2 Years	Not Funded	$59,400	Daviess		18
WX21059064	Little Hickory Road Water Line	0-2 Years	Not Funded	$61,400	Daviess		19
WX21059041	Whitesville Equipment Purchase	6-10 Years	Not Funded	$52,000	Daviess		24
WX21059072	Poplar Spur Water Line Extension	0-2 Years	Partially Funded	$20,000	Daviess		25
WX21059061	KY 762 Extension	0-2 Years	Partially Funded	$57,000	Daviess		26
WX21059028	Oklahoma Lafoon Road Water Line Extension	0-2 Years	Partially Funded	$36,400	Daviess		31

Hancock County

- 2010 census population of 8,565 (3,734 households) with 99% serviceable.
- Projected 2020 population of 8,843 (change of 278).
- Hancock County has 303.82 miles of existing water lines.
- 25.00 miles of line extensions proposed in the next 10 years.
- 3.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $4,236,646.
- Estimated funding needs for projects from 6 to 10 years: $708,000.



Hancock County has a 2010 census population count of 8,565 (3,734 households) with a projected 2020 population count of 8,843 (3,502 households). Public water is currently available to approximately 99 percent of the county's households based on 2010 census counts. Over the next ten years approximately 42 serviceable households will be added through the construction of 25.00 miles of water line extensions and approximately 11,721 instances of improved service through the rehabilitation of 3.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Hawesville	4	$870,000	-	2,525	-	2.00	-
City of Lewisport	4	$666,481	2	3,175	2.00	1.00	-
East Daviess County Water Association Inc	5	$924,100	8	3,815	18.00	-	-
Hancock County Fiscal Court	7	$2,484,065	32	2,206	5.00	-	-
Totals:	**20**	**$4,944,646**	**42**	**11,721**	**25.00**	**3.00**	**-**

Community Drinking Water Systems in Hancock County

Note: Serviceability counts are for households within Hancock county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0460182	Hawesville Water Works	Hancock	2,738	1,187
KY0460248	Lewisport Municipal Water Works	Hancock	2,595	1,166
KY0300109	East Daviess County Water Association	Daviess	3,121	1,333
		Totals:	8,454	3,686

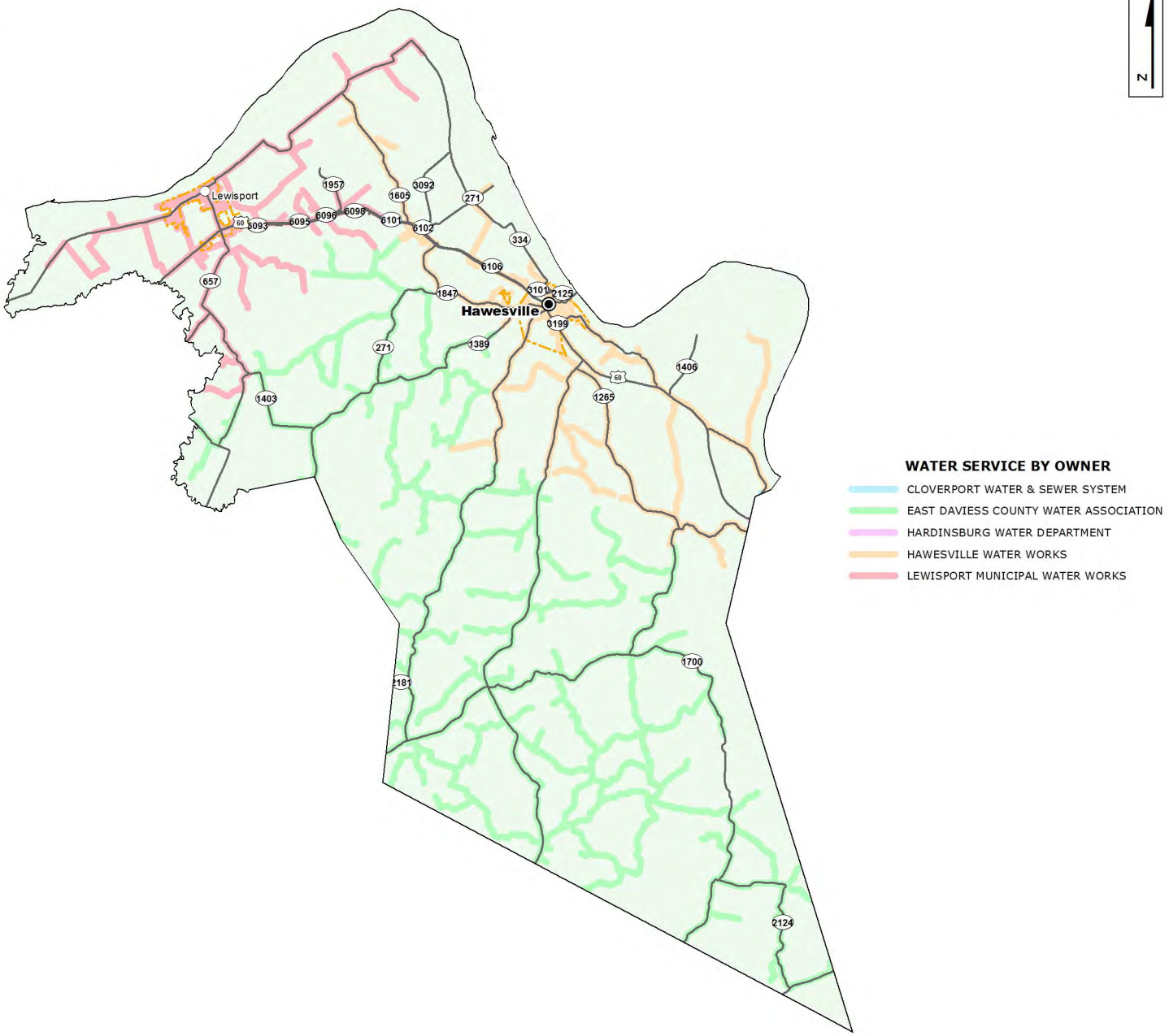
WATER SERVICE AREAS
HANCOCK COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

Kentucky Infrastructure Authority
1024 Capital Center Drive
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http://kia.ky.gov

January, 2013

Water Resource Information System



System Summary for Hawesville Water Works

PWSID	KY0460182	Treats Water	Yes, 1 plant with total capacity of 0.576 MGD.
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	Yes, 3 sources.
Employees	5	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$17.50 per 4,000 gallons.	Storage Capacity	Yes, 4 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$24.25 per 4,000 gallons.	Total Connections	1,078
Residential Customers	998	Total Produced (MG)	125.520
Commercial Customers	-	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	113.999
Industrial Customers	7	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	9%

Total Distribution System Line Length = 73.90 miles (Distribution: 72.39 miles, Transmission: 1.52 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Hawesville Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21091056	Hawesville/Lewisport Emergency Interconnection	3-5 Years	Not Funded	$76,500	Hancock	7	2
WX21091082	Hawesville Water Treatment Plant Upgrade	3-5 Years	Not Funded	$300,000	Hancock	20	3
WX21091062	Windward Heights Water Line Rehab	6-10 Years	Not Funded	$400,000	Hancock	21	4
WX21091076	Hawesville Debt Retirement	3-5 Years	Not Funded	$800,000	Hancock		8
WX21091089	Donna Lou/Faith Ann Line Upsizing project	6-10 Years	Not Funded	$100,000	Hancock		15
WX21091083	Fred Hodges Road Water Tank Rehabilitation	6-10 Years	Not Funded	$70,000	Hancock		16
WX21091090	River Road Waterline Extension Project	3-5 Years	Not Funded	$130,000	Hancock		18
WX21091081	Tickridge Road Project	3-5 Years	Not Funded	$140,000	Hancock		19
WX21091086	Hawesville Water Surcharge Retirement	3-5 Years	Not Funded	$800,000	Hancock		21
WX21091095	Lewisport Waterline Project	0-2 Years	Not Funded	$245,981	Hancock		22
WX21091087	Antoinette Estates Water Line Extension	3-5 Years	Not Funded	$500,000	Hancock		23

System Summary for Lewisport Municipal Water Works

PWSID	KY0460248	Treats Water	Yes, 1 plant with total capacity of 0.420 MGD.
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	Yes, 3 sources.
Employees	9	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$14.42 per 4,000 gallons.	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$23.10 per 4,000 gallons.	Total Connections	1,066
Residential Customers	975	Total Produced (MG)	80.000
Commercial Customers	64	Total Purchased (MG)	-
Institutional Customers	14	Total Inside Usage (MG)	74.100
Industrial Customers	2	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	7%
Total Distribution System Line Length = 56.42 miles (Distribution: 56.29 miles, Transmission: 0.12 miles).			

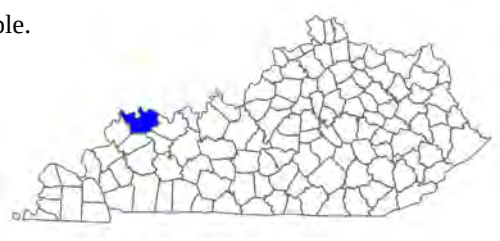
MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Lewisport Municipal Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21091056	Hawesville/Lewisport Emergency Interconnection	3-5 Years	Not Funded	$76,500	Hancock	7	2
WX21091075	Lewisport/EDCWA Emergency Interconnect	3-5 Years	Not Funded	$41,000	Hancock	22	5
WX21091073	Lewisport Water System Improvements	3-5 Years	Not Funded	$303,000	Hancock		11
WX21091095	Lewisport Waterline Project	0-2 Years	Not Funded	$245,981	Hancock		22

Henderson County

- 2010 census population of 46,250 (20,320 households) with 99% serviceable.
- Projected 2020 population of 47,600 (change of 1,350).
- Henderson County has 653.44 miles of existing water lines.
- 38.00 miles of line extensions proposed in the next 10 years.
- 40.00 miles of line rehabilitation proposed in the next 10 years.
- 6.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $41,277,709.
- Estimated funding needs for projects from 6 to 10 years: $1,200,000.



Henderson County has a 2010 census population count of 46,250 (20,320 households) with a projected 2020 population count of 47,600 (19,851 households). Public water is currently available to approximately 99 percent of the county's households based on 2010 census counts. Over the next ten years approximately 82 serviceable households will be added through the construction of 38.00 miles of water line extensions and approximately 38,299 instances of improved service through the rehabilitation of 40.00 miles of existing water lines and other appurtenances. 6.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Henderson County Fiscal Court	2	$3,066,788	1	6,100	-	-	-
Henderson County Water District	20	$9,780,921	65	10,614	22.00	39.00	6.00
Henderson Water Utility	5	$29,630,000	16	21,585	16.00	1.00	-
Totals:	**27**	**$42,477,709**	**82**	**38,299**	**38.00**	**40.00**	**6.00**

Community Drinking Water Systems in Henderson County

Note: Serviceability counts are for households within Henderson county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0510189	Henderson County Water District	Henderson	15,521	6,246
KY0510188	Henderson Water Utility - North	Henderson	30,098	13,760
KY0300450	West Daviess County Water District	Daviess	34	13
		Totals:	45,653	20,019

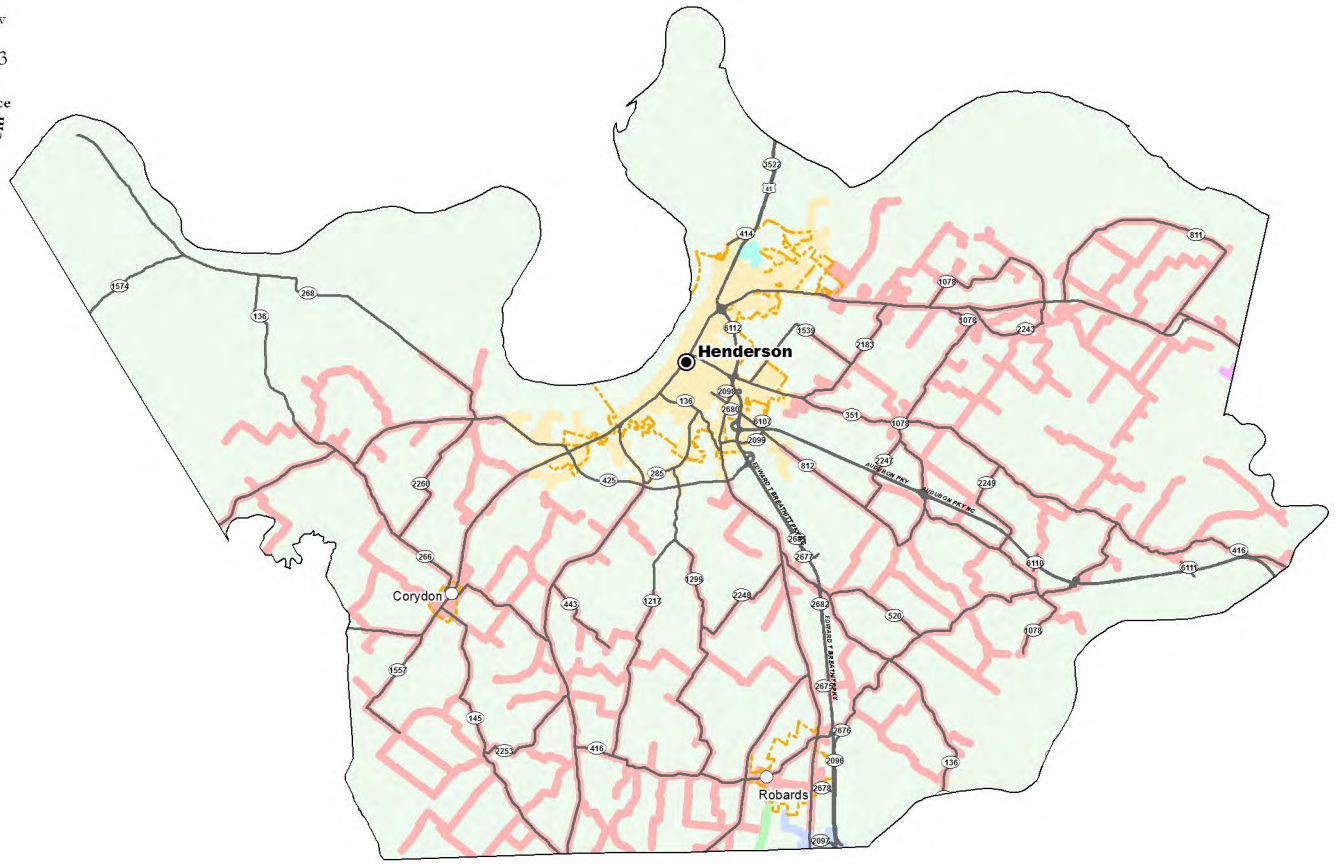
WATER SERVICE AREAS
HENDERSON COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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January, 2013

Water Resource Information System



WATER SERVICE BY OWNER

- HENDERSON COUNTY WATER DISTRICT
- HENDERSON WATER UTILITY - NORTH
- HENDERSON WATER UTILITY - SOUTH
- JOHN JAMES AUDUBON STATE PARK
- WEBSTER COUNTY WATER DISTRICT
- WEST DAVIESS COUNTY WATER DISTRICT

System Summary for Henderson County Water District

PWSID	KY0510189	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	13	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	$29.64 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 7 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	6,594
Residential Customers	6,311	Total Produced (MG)	-
Commercial Customers	283	Total Purchased (MG)	479.284
Institutional Customers	-	Total Inside Usage (MG)	452.628
Industrial Customers	1	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	6%

Total Distribution System Line Length = 457.76 miles (Distribution: 457.76 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Henderson County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21101108	US 41 South A/C Main Replacement	3-5 Years	Not Funded	$1,046,452	Henderson	27	3
WX21101110	Hwy 351 Main Replacement	0-2 Years	Not Funded	$1,550,219	Henderson	35	5
WX21101107	US 41-A Main Replacement	3-5 Years	Not Funded	$1,242,318	Henderson		6
WX21101115	Henderson County Fire Hydrant Project	3-5 Years	Not Funded	$3,000,000	Henderson		7
WX21101058	Housebridge Road Water Line Extension	3-5 Years	Not Funded	$8,000	Henderson		8
WX21101059	Housebridge Road Water Line Extension #2	3-5 Years	Not Funded	$42,600	Henderson		9
WX21101044	Trigg Hooper Water Line Extension	3-5 Years	Not Funded	$20,000	Henderson		10
WX21101047	Utley & Utley Road Water Line Extension	3-5 Years	Not Funded	$80,250	Henderson		11
WX21101048	J.J. Utley Road Water Line Extension	3-5 Years	Not Funded	$61,600	Henderson		12
WX21101066	Shady Grove Knoblick Road Line Extension	3-5 Years	Not Funded	$45,000	Henderson		14
WX21101111	Hwy 136 W Main Replacement	3-5 Years	Not Funded	$717,307	Henderson		15
WX21101119	Cooper-Copper Road Waterline Extension	6-10 Years	Not Funded	$206,500	Henderson		16
WX21101122	Wedding Lane	6-10 Years	Not Funded	$45,500	Henderson		17
WX21101123	HCWD Whitelick Road Water Line Extension	6-10 Years	Not Funded	$94,500	Henderson		18
WX21101118	Robards-Busby Station Road Waterline Extension	6-10 Years	Not Funded	$675,000	Henderson		19
WX21101109	Hwy 416 W Main Replacement	0-2 Years	Not Funded	$972,561	Henderson		20
WX21101040	Hwy 268 & Cooper-Cooper Road Water Line Extension	3-5 Years	Not Funded	$380,153	Henderson		21
WX21101065	Poole Mill Road Loop	3-5 Years	Not Funded	$46,000	Henderson		22

System Summary for Henderson Water Utility - North

PWSID	KY0510188	Treats Water	Yes, 1 plant with total capacity of 12.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Municipal Utility Board or Commission	Groundwater Source	No
Employees	85	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$11.71 per 4,000 gallons.	Storage Capacity	Yes, 6 tanks with total capacity of 7.000 MG.
Outside Mun. Cost	$29.30 per 4,000 gallons.	Total Connections	10,778
Residential Customers	9,237	Total Produced (MG)	2,690.228
Commercial Customers	979	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	2,016.229
Industrial Customers	51	Total Wholesale Sold (MG)	463.505
Wholesale Customers	1	Estimated Pct. Water Loss	8%
Total Distribution System Line Length = 208.94 miles (Distribution: 208.55 miles, Transmission: 0.39 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Henderson Water Utility - North

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21101001	North System Improvements	3-5 Years	Not Funded	$2,100,000	Henderson	13	1
WX21101116	Henderson Riverport Infrastructure Extension, Water Line	0-2 Years	Not Funded	$66,788	Henderson	25	2
WX21101028	South Booster Station Relocation	3-5 Years	Not Funded	$630,000	Henderson		13
WX21101025	Main Street Water Main Replacement	3-5 Years	Not Funded	$6,750,000	Henderson		25

System Summary for Henderson Water Utility - South

PWSID	KY0510510	Treats Water	Yes, 1 plant with total capacity of 4.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Municipal Utility Board or Commission	Groundwater Source	No
Employees	85	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 3 purchasers.
Inside Mun. Cost	$11.71 per 4,000 gallons.	Storage Capacity	Yes, 3 tanks with total capacity of 3.000 MG.
Outside Mun. Cost	$29.30 per 4,000 gallons.	Total Connections	4
Residential Customers	11	Total Produced (MG)	121.612
Commercial Customers	-	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	0.983
Industrial Customers	-	Total Wholesale Sold (MG)	114.266
Wholesale Customers	3	Estimated Pct. Water Loss	5%
Total Distribution System Line Length = 11.92 miles (Distribution: 3.10 miles, Transmission: 8.82 miles).			

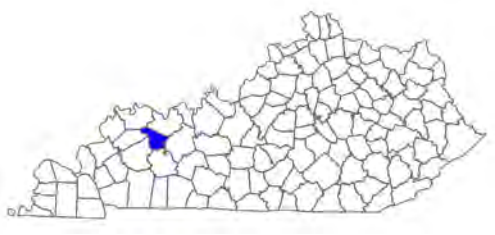
MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Henderson Water Utility - South

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21101009	HWU - South Water Treatment Plant Expansion	3-5 Years	Not Funded	$3,500,000	Henderson	29	4
WX21101004	Green River Supplemental Supply	3-5 Years	Not Funded	$16,650,000	Henderson		26

McLean County

- 2010 census population of 9,531 (4,264 households) with 96% serviceable.
- Projected 2020 population of 9,271 (change of -260).
- McLean County has 322.83 miles of existing water lines.
- 13.00 miles of line extensions proposed in the next 10 years.
- 2.00 miles of line rehabilitation proposed in the next 10 years.
- 6.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $23,594,958.
- Estimated funding needs for projects from 6 to 10 years: $2,325,000.



McLean County has a 2010 census population count of 9,531 (4,264 households) with a projected 2020 population count of 9,271 (3,821 households). Public water is currently available to approximately 96 percent of the county's households based on 2010 census counts. Over the next ten years approximately 176 serviceable households will be added through the construction of 13.00 miles of water line extensions and approximately 19,092 instances of improved service through the rehabilitation of 2.00 miles of existing water lines and other appurtenances. 6.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Calhoun	4	$10,365,000	-	1,170	-	-	-
City of Island	2	$1,675,000	120	500	4.00	-	-
City of Livermore	2	$211,908	15	400	-	-	-
City of Sacramento	4	$853,880	5	1,658	3.00	-	-
Daviess County Fiscal Court	1	$46,420	-	-	-	-	-
McLean County Fiscal Court	7	$11,129,750	36	13,939	5.00	2.00	6.00
North McLean County Water District	2	$1,638,000	-	1,425	1.00	-	-
Totals:	**22**	**$25,919,958**	**176**	**19,092**	**13.00**	**2.00**	**6.00**

Community Drinking Water Systems in McLean County

Note: Serviceability counts are for households within McLean county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0750529	Beech Grove Water Association	McLean	1,007	448
KY0750055	Calhoun Water Works	McLean	972	488
KY0750207	Island Water Department	McLean	1,056	471
KY0750252	Livermore Water Works	McLean	1,426	679
KY0300320	North McLean County Water District	McLean	2,771	1,151
KY0750907	Sacramento Water Works	McLean	1,823	823
KY0300450	West Daviess County Water District	Daviess	25	11
KY0920332	Ohio County Water District	Ohio	29	12
		Totals:	9,109	4,083

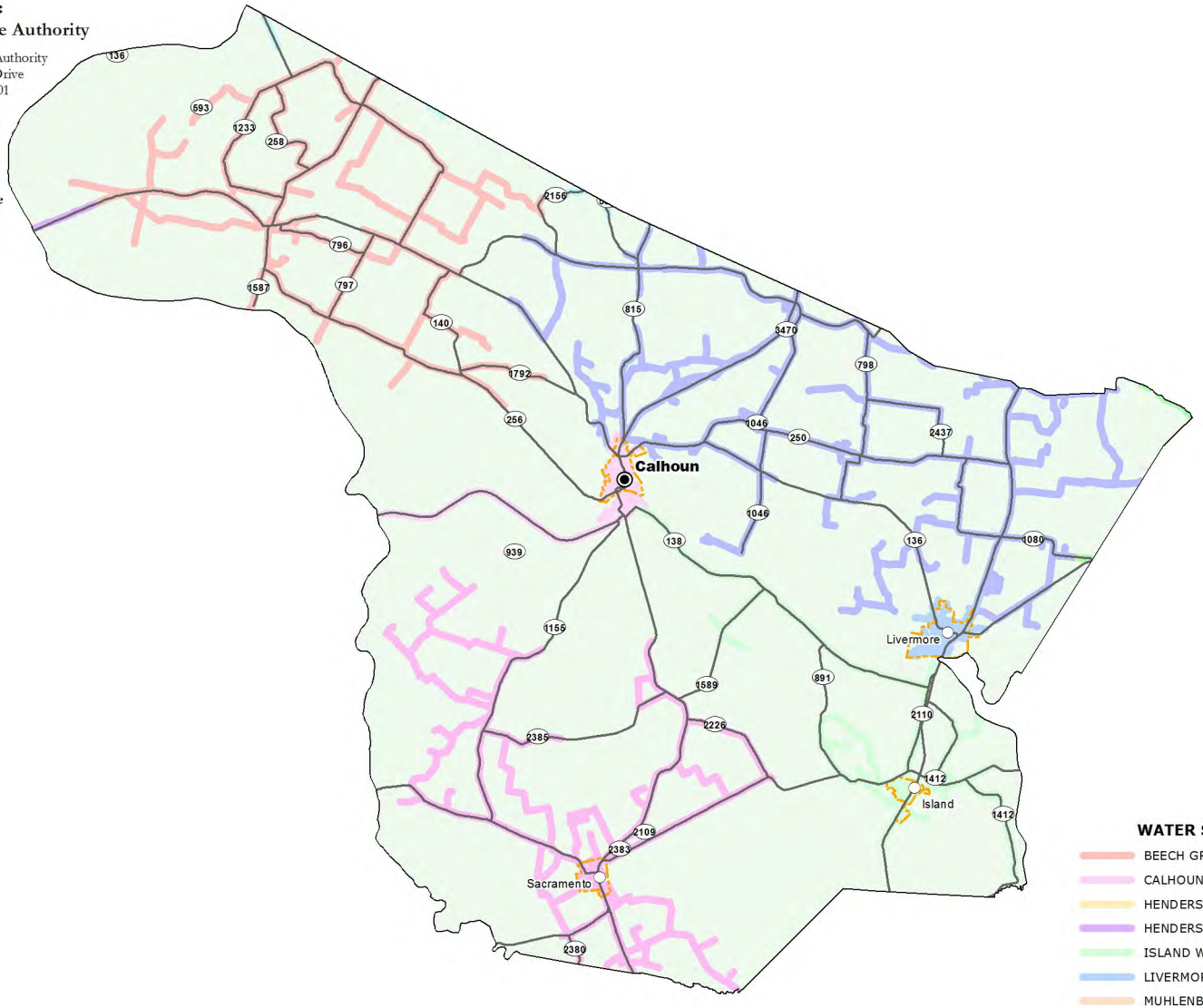
WATER SERVICE AREAS
MCLEAN COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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January, 2013

Water Resource Information System



System Summary for Beech Grove Water Association

PWSID	KY0750529	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water Association	Groundwater Source	No
Employees	2	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	$29.98 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	564
Residential Customers	485	Total Produced (MG)	-
Commercial Customers	17	Total Purchased (MG)	57.772
Institutional Customers	-	Total Inside Usage (MG)	43.957
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	24%
Total Distribution System Line Length = 76.09 miles (Distribution: 71.80 miles, Transmission: 4.29 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Beech Grove Water Association

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21149005	Beech Grove Water System Storage Tank Addition	0-2 Years	Not Funded	$1,305,650	McLean	30	5
WX21149056	McLean County Fire Hydrant Installation	3-5 Years	Not Funded	$139,100	McLean		8
WX21149051	KY 593 Extension	6-10 Years	Not Funded	$600,000	McLean		12

System Summary for Calhoun Water Works

PWSID	KY0750055	Treats Water	Yes, 1 plant with total capacity of 1.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	6	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	$29.30 per 4,000 gallons.	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$29.30 per 4,000 gallons.	Total Connections	486
Residential Customers	386	Total Produced (MG)	213.490
Commercial Customers	53	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	58.579
Industrial Customers	-	Total Wholesale Sold (MG)	139.739
Wholesale Customers	2	Estimated Pct. Water Loss	7%
Total Distribution System Line Length = 20.14 miles (Distribution: 17.53 miles, Transmission: 2.61 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Calhoun Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21149059	Pack Schoolhouse Road	3-5 Years	Not Funded	$350,000	McLean		7
WX21149056	McLean County Fire Hydrant Installation	3-5 Years	Not Funded	$139,100	McLean		8
WX21149036	Calhoun Meter Replacement Project	3-5 Years	Not Funded	$250,000	McLean		14
WX21149062	Second Street Water Line Replacement Project	6-10 Years	Not Funded	$75,000	McLean		16
WX21149042	McLean County Regional Water Commission Water Treatment Plant	0-2 Years	Partially Funded	$8,276,000	McLean		17
WX21149041	Sacramento - Calhoun Interconnect	3-5 Years	Not Funded	$550,000	McLean		19
WX21149031	Calhoun Raw Water Pump Replacement	3-5 Years	Not Funded	$40,000	McLean		20
WX21149007	Calhoun Water Treatment Plant Upgrade	3-5 Years	Not Funded	$10,000,000	McLean		21

System Summary for Island Water Department

PWSID	KY0750207	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	3	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$38.62 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	$44.82 per 4,000 gallons.	Total Connections	495
Residential Customers	459	Total Produced (MG)	-
Commercial Customers	16	Total Purchased (MG)	41.860
Institutional Customers	-	Total Inside Usage (MG)	31.200
Industrial Customers	4	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	25%

Total Distribution System Line Length = 35.58 miles (Distribution: 35.42 miles, Transmission: 0.16 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Island Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21149056	McLean County Fire Hydrant Installation	3-5 Years	Not Funded	$139,100	McLean		8
WX21149047	Fox Hollow Water Tank	6-10 Years	Not Funded	$1,500,000	McLean		10
WX21149042	McLean County Regional Water Commission Water Treatment Plant	0-2 Years	Partially Funded	$8,276,000	McLean		17
WX21149041	Sacramento - Calhoun Interconnect	3-5 Years	Not Funded	$550,000	McLean		19
WX21149065	Island Hwy 2110 Pump Station	3-5 Years	Not Funded	$175,000	McLean		23

System Summary for Livermore Water Works

PWSID	KY0750252	Treats Water	Yes, 1 plant with total capacity of 0.495 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	5	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$38.51 per 4,000 gallons.	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$44.77 per 4,000 gallons.	Total Connections	606
Residential Customers	560	Total Produced (MG)	46.986
Commercial Customers	-	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	29.250
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	1	Estimated Pct. Water Loss	38%
Total Distribution System Line Length = 14.04 miles (Distribution: 13.99 miles, Transmission: 0.05 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Livermore Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21149056	McLean County Fire Hydrant Installation	3-5 Years	Not Funded	$139,100	McLean		8
WX21149064	Highway 136 Waterline Extension	3-5 Years	Not Funded	$10,000	McLean		15
WX21149042	McLean County Regional Water Commission Water Treatment Plant	0-2 Years	Partially Funded	$8,276,000	McLean		17
WX21149043	Livermore Meter Replacement Project	3-5 Years	Not Funded	$201,908	McLean		18

System Summary for McLean County Water Commission

PWSID	KYPENDING0011	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	County Fiscal Court	Groundwater Source	No
Employees	-	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	No
Outside Mun. Cost	-	Total Connections	
Residential Customers	-	Total Produced (MG)	-
Commercial Customers	-	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	-
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	

Total Distribution System Line Length = 0.00 miles (Distribution: 0.00 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for McLean County Water Commission

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21149042	McLean County Regional Water Commission Water Treatment Plant	0-2 Years	Partially Funded	$8,276,000	McLean		17

System Summary for North McLean County Water District

PWSID	KY0300320	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	5	Wholesale Purchaser	Yes, from 4 providers.
Non-Municipal Cost	$25.66 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	1,302
Residential Customers	1,270	Total Produced (MG)	-
Commercial Customers	30	Total Purchased (MG)	103.679
Institutional Customers	-	Total Inside Usage (MG)	94.614
Industrial Customers	4	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	9%
Total Distribution System Line Length = 109.88 miles (Distribution: 107.79 miles, Transmission: 2.09 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for North McLean County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21149022	431 Tank Project	0-2 Years	Partially Funded	$1,488,000	McLean	17	1
WX21149056	McLean County Fire Hydrant Installation	3-5 Years	Not Funded	$139,100	McLean		8
WX21149057	815 Waterline Extension	6-10 Years	Not Funded	$150,000	McLean		9
WX21149060	Harmons Ferry Road Waterline	3-5 Years	Not Funded	$300,000	McLean		13
WX21149042	McLean County Regional Water Commission Water Treatment Plant	0-2 Years	Partially Funded	$8,276,000	McLean		17
WX21149018	Troutman Hills Road Water Line Extension	3-5 Years	Partially Funded	$159,000	McLean		22

System Summary for Sacramento Water Works

PWSID	KY0750907	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	5	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$38.75 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	$49.48 per 4,000 gallons.	Total Connections	808
Residential Customers	744	Total Produced (MG)	-
Commercial Customers	30	Total Purchased (MG)	59.653
Institutional Customers	-	Total Inside Usage (MG)	47.250
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	21%

Total Distribution System Line Length = 71.94 miles (Distribution: 66.71 miles, Transmission: 5.23 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Sacramento Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21149037	Garrett Street Water Line Improvements Project	3-5 Years	Not Funded	$53,880	McLean	26	3
WX21149058	Sacramento Water Meter Replacement	3-5 Years	Not Funded	$150,000	McLean	28	4
WX21149059	Pack Schoolhouse Road	3-5 Years	Not Funded	$350,000	McLean		7
WX21149056	McLean County Fire Hydrant Installation	3-5 Years	Not Funded	$139,100	McLean		8
WX21149004	Sacramento Tank Repainting	3-5 Years	Not Funded	$100,000	McLean		11
WX21149042	McLean County Regional Water Commission Water Treatment Plant	0-2 Years	Partially Funded	$8,276,000	McLean		17
WX21149041	Sacramento - Calhoun Interconnect	3-5 Years	Not Funded	$550,000	McLean		19

Ohio County

- 2010 census population of 23,842 (10,219 households) with 97% serviceable.
- Projected 2020 population of 24,781 (change of 939).
- Ohio County has 745.59 miles of existing water lines.
- 6.00 miles of line extensions proposed in the next 10 years.
- 3.00 miles of line rehabilitation proposed in the next 10 years.
- 9.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $2,450,250.
- Estimated funding needs for projects from 6 to 10 years: $1,819,000.



Ohio County has a 2010 census population count of 23,842 (10,219 households) with a projected 2020 population count of 24,781 (9,786 households). Public water is currently available to approximately 97 percent of the county's households based on 2010 census counts. Over the next ten years approximately 45 serviceable households will be added through the construction of 6.00 miles of water line extensions and approximately 24,830 instances of improved service through the rehabilitation of 3.00 miles of existing water lines and other appurtenances. 9.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Fordsville	1	$246,550	-	441	-	-	-
City of Hartford	2	$1,474,000	22	62	-	2.00	-
East Daviess County Water Association Inc	3	$198,700	10	4,902	3.00	-	-
Ohio County Water District	3	$2,350,000	13	19,425	3.00	1.00	9.00
Totals:	**9**	**$4,269,250**	**45**	**24,830**	**6.00**	**3.00**	**9.00**

Community Drinking Water Systems in Ohio County

Note: Serviceability counts are for households within Ohio county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0920025	Beaver Dam Municipal Water & Sewer System	Ohio	3,595	1,527
KY0920070	Centertown Water System	Ohio	1,139	478
KY0920136	Fordsville Water Works	Ohio	925	426
KY0920181	Hartford Municipal Water Works	Ohio	2,704	1,166
KY0920332	Ohio County Water District	Ohio	13,206	5,640
KY0300109	East Daviess County Water Association	Daviess	1,381	588
KY0300467	Whitesville Water Works	Daviess	143	55
		Totals:	23,093	9,880

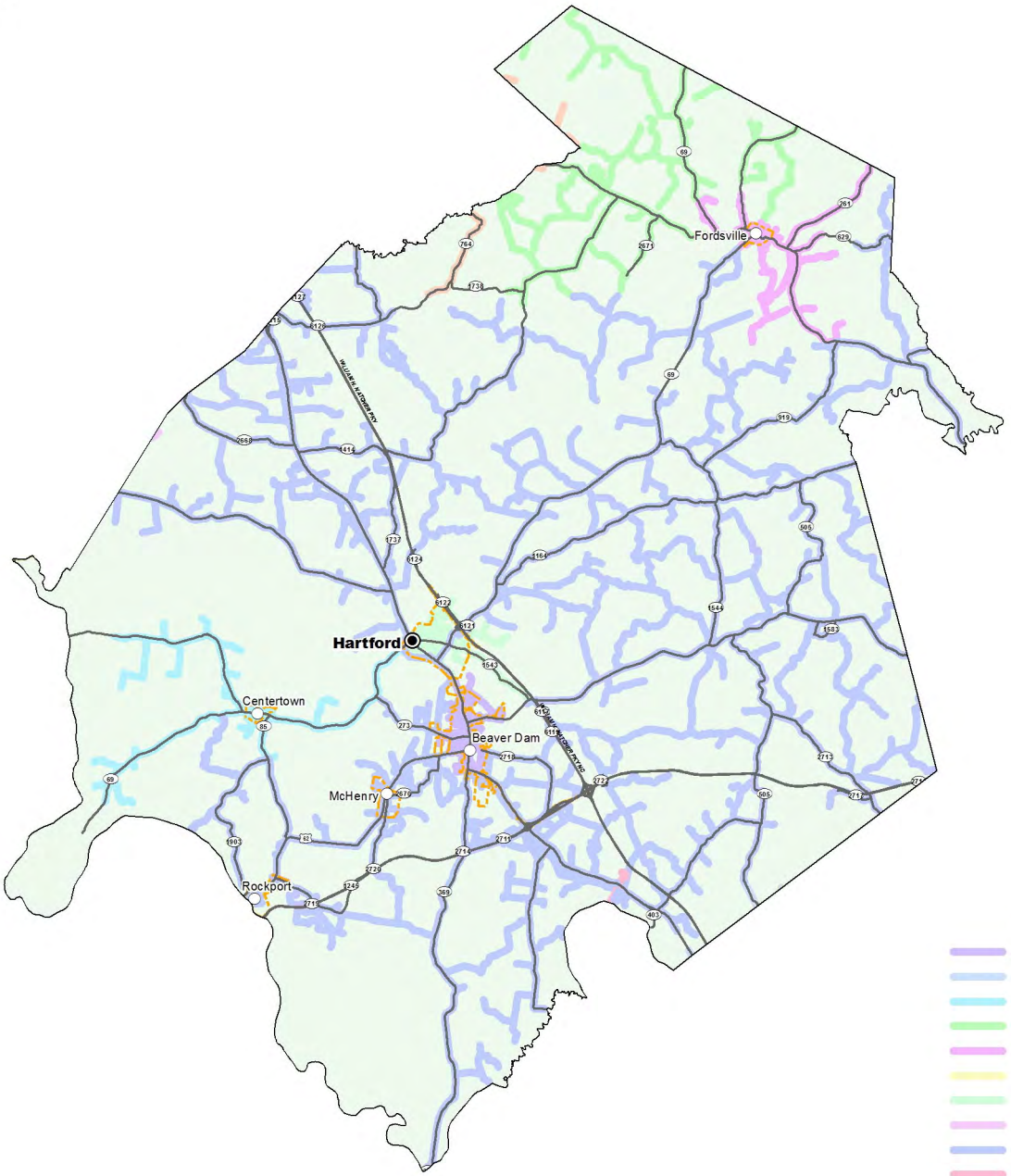
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Kentucky Infrastructure Authority

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January, 2013

Water Resource Information System



System Summary for Beaver Dam Municipal Water & Sewer System

PWSID	KY0920025	Treats Water	Yes, 1 plant with total capacity of 0.075 MGD.
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	Yes, 1 source.
Employees	6	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$21.47 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	$33.35 per 4,000 gallons.	Total Connections	1,577
Residential Customers	1,327	Total Produced (MG)	25.550
Commercial Customers	216	Total Purchased (MG)	103.300
Institutional Customers	-	Total Inside Usage (MG)	119.856
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	7%
Total Distribution System Line Length = 29.68 miles (Distribution: 29.68 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Beaver Dam Municipal Water & Sewer System

System Summary for Centertown Water System

PWSID	KY0920070	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	2	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$38.36 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	$48.55 per 4,000 gallons.	Total Connections	523
Residential Customers	521	Total Produced (MG)	-
Commercial Customers	6	Total Purchased (MG)	39.800
Institutional Customers	-	Total Inside Usage (MG)	32.677
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	18%
Total Distribution System Line Length = 38.08 miles (Distribution: 38.08 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Centertown Water System

System Summary for Fordsville Water Works

PWSID	KY0920136	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	2	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$26.00 per 4,000 gallons.	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$26.00 per 4,000 gallons.	Total Connections	435
Residential Customers	405	Total Produced (MG)	-
Commercial Customers	25	Total Purchased (MG)	43.229
Institutional Customers	-	Total Inside Usage (MG)	27.980
Industrial Customers	5	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	35%
Total Distribution System Line Length = 29.12 miles (Distribution: 29.12 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Fordsville Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21183033	Fordsville Water Loss Project	0-2 Years	Not Funded	$246,550	Ohio	23	4

System Summary for Hartford Municipal Water Works

PWSID	KY0920181	Treats Water	Yes, 1 plant with total capacity of 1.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	8	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$25.27 per 4,000 gallons.	Storage Capacity	Yes, 2 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	$40.20 per 4,000 gallons.	Total Connections	1,002
Residential Customers	879	Total Produced (MG)	80.000
Commercial Customers	122	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	72.804
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	1	Estimated Pct. Water Loss	9%
Total Distribution System Line Length = 32.62 miles (Distribution: 32.62 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Hartford Municipal Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21183021	Oak Wood Drive Water Main Replacement	6-10 Years	Not Funded	$132,000	Ohio	31	3
WX21183013	Hartford Water System Improvements	6-10 Years	Not Funded	$1,342,000	Ohio		6

System Summary for Ohio County Water District

PWSID	KY0920332	Treats Water	Yes, 1 plant with total capacity of 4.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	17	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	$38.69 per 4,000 gallons.	Wholesale Provider	Yes, to 5 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 7 tanks with total capacity of 3.000 MG.
Outside Mun. Cost	-	Total Connections	6,895
Residential Customers	6,895	Total Produced (MG)	668.800
Commercial Customers	112	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	382.000
Industrial Customers	-	Total Wholesale Sold (MG)	186.329
Wholesale Customers	5	Estimated Pct. Water Loss	15%

Total Distribution System Line Length = 609.92 miles (Distribution: 606.81 miles, Transmission: 3.11 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Ohio County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21183038	Rochester Dam Regional Water Commission	0-2 Years	Not Funded	$3,300,000	Ohio	3	1
WX21183039	Ohio County Water District Water Main Upgrade Project	0-2 Years	Not Funded	$1,630,000	Ohio	32	5
WX21183035	Ohio County Water District Line Replacement	6-10 Years	Not Funded	$320,000	Ohio		7
WX21183023	Ohio Co. Water Distrct/Butler Co. Water District Interconnection	0-2 Years	Not Funded	$400,000	Ohio		9
WX21183034	Ohio County Water Dist./Grayson County Water Dist. Interconnect	6-10 Years	Not Funded	$350,000	Ohio		10

System Summary for Rochester Dam Regional Water Commission

PWSID	KYPENDING0013	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	County Fiscal Court	Groundwater Source	No
Employees	-	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	No
Outside Mun. Cost	-	Total Connections	
Residential Customers	-	Total Produced (MG)	-
Commercial Customers	-	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	-
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	

Total Distribution System Line Length = 0.00 miles (Distribution: 0.00 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Rochester Dam Regional Water Commission

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21183038	Rochester Dam Regional Water Commission	0-2 Years	Not Funded	$3,300,000	Ohio	3	1

Union County

- 2010 census population of 15,007 (6,141 households) with 96% serviceable.
- Projected 2020 population of 14,436 (change of -571).
- Union County has 458.29 miles of existing water lines.
- 1.00 miles of line extensions proposed in the next 10 years.
- 2.00 miles of line rehabilitation proposed in the next 10 years.
- 3.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $2,306,790.
- Estimated funding needs for projects from 6 to 10 years: $592,811.



Union County has a 2010 census population count of 15,007 (6,141 households) with a projected 2020 population count of 14,436 (5,463 households). Public water is currently available to approximately 96 percent of the county's households based on 2010 census counts. Over the next ten years approximately 1 serviceable households will be added through the construction of 1.00 miles of water line extensions and approximately 12,150 instances of improved service through the rehabilitation of 2.00 miles of existing water lines and other appurtenances. 3.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Morganfield	5	$1,620,170	-	6,300	-	2.00	3.00
City of Sturgis	2	$301,500	-	2,200	-	-	-
City of Uniontown	3	$447,681	-	1,350	-	-	-
Henderson County Water District	1	$80,250	1	-	1.00	-	-
Union County Water District	1	$450,000	-	2,300	-	-	-
Totals:	**12**	**$2,899,601**	**1**	**12,150**	**1.00**	**2.00**	**3.00**

Community Drinking Water Systems in Union County

Note: Serviceability counts are for households within Union county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY1130293	Morganfield Water Works	Union	5,553	1,910
KY1130422	Sturgis Water Works	Union	2,453	1,192
KY1130433	Union County Water District	Union	5,240	2,247
KY1130434	Uniontown Water & Sewer Department	Union	1,142	522
		Totals:	14,388	5,871

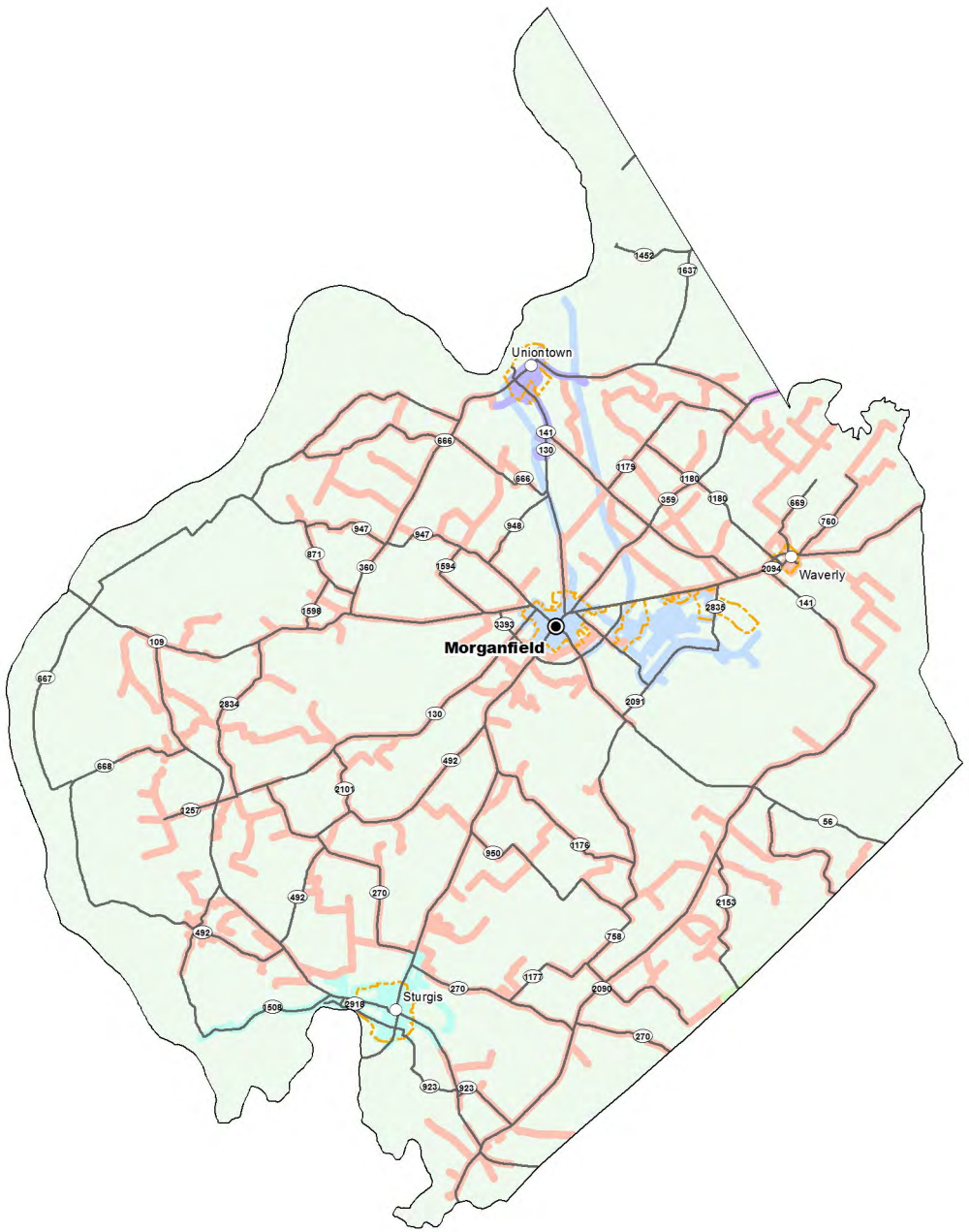
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January, 2013

Water Resource Information System



System Summary for Morganfield Water Works

PWSID	KY1130293	Treats Water	Yes, 1 plant with total capacity of 6.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	8	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	$17.19 per 4,000 gallons.	Storage Capacity	Yes, 3 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	$26.56 per 4,000 gallons.	Total Connections	1,939
Residential Customers	1,621	Total Produced (MG)	625.852
Commercial Customers	467	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	184.600
Industrial Customers	11	Total Wholesale Sold (MG)	370.000
Wholesale Customers	2	Estimated Pct. Water Loss	11%
Total Distribution System Line Length = 84.40 miles (Distribution: 72.87 miles, Transmission: 11.53 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Morganfield Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21225039	East Side Water Line Extension	0-2 Years	Not Funded	$50,000	Union	19	3
WX21225045	Morganfield Combined Sewer Separation Project Phase 3	3-5 Years	Not Funded	$450,000	Union	33	4
WX21225014	Morganfield CSS - Phase II - Water Portion	0-2 Years	Not Funded	$545,170	Union		7
WX21225040	Morganfield Radio Read Meter Project	3-5 Years	Not Funded	$425,000	Union		9
WX21225038	Morganfield Filter Control Project	3-5 Years	Not Funded	$150,000	Union		13

System Summary for Sturgis Water Works

PWSID	KY1130422	Treats Water	Yes, 1 plant with total capacity of 1.200 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	4	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$32.27 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	$33.66 per 4,000 gallons.	Total Connections	1,088
Residential Customers	969	Total Produced (MG)	132.000
Commercial Customers	106	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	51.600
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	61%
Total Distribution System Line Length = 31.06 miles (Distribution: 26.13 miles, Transmission: 4.94 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Sturgis Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21225013	City of Sturgis Water Treatment Plant and Water Intake Generator Project	6-10 Years	Not Funded	$261,500	Union		11
WX21225037	Sturgis Groundwater Supply Feasibility Study	3-5 Years	Not Funded	$40,000	Union		12

System Summary for Union County Water District

PWSID	KY1130433	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	6	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$24.41 per 4,000 gallons.	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 9 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	-	Total Connections	2,274
Residential Customers	2,177	Total Produced (MG)	-
Commercial Customers	85	Total Purchased (MG)	333.000
Institutional Customers	-	Total Inside Usage (MG)	321.000
Industrial Customers	5	Total Wholesale Sold (MG)	-
Wholesale Customers	2	Estimated Pct. Water Loss	4%

Total Distribution System Line Length = 327.46 miles (Distribution: 327.46 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Union County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21225041	UCWD Radio Read Meter Project	3-5 Years	Not Funded	$450,000	Union		10

System Summary for Uniontown Water & Sewer Department

PWSID	KY1130434	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	4	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$22.95 per 4,000 gallons.	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$35.26 per 4,000 gallons.	Total Connections	558
Residential Customers	529	Total Produced (MG)	-
Commercial Customers	25	Total Purchased (MG)	37.000
Institutional Customers	-	Total Inside Usage (MG)	34.804
Industrial Customers	4	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	6%
Total Distribution System Line Length = 14.83 miles (Distribution: 14.83 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Uniontown Water & Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21225044	Highway 130 Water Main Replacement Project	0-2 Years	Not Funded	$116,370	Union	14	2
WX21225046	Uniontown Water Tanks and Repair Project	6-10 Years	Not Funded	$200,000	Union	34	5
WX21225026	Uniontown Valve Upgrades	6-10 Years	Not Funded	$131,311	Union		6

Webster County

- 2010 census population of 13,621 (5,936 households) with 97% serviceable.
- Projected 2020 population of 13,399 (change of -222).
- Webster County has 487.17 miles of existing water lines.
- 8.00 miles of line extensions proposed in the next 10 years.
- 23.00 miles of line rehabilitation proposed in the next 10 years.
- 35.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $2,549,799.
- Estimated funding needs for projects from 6 to 10 years: $11,300,000.



Webster County has a 2010 census population count of 13,621 (5,936 households) with a projected 2020 population count of 13,399 (5,292 households). Public water is currently available to approximately 97 percent of the county's households based on 2010 census counts. Over the next ten years approximately 476 serviceable households will be added through the construction of 8.00 miles of water line extensions and approximately 15,937 instances of improved service through the rehabilitation of 23.00 miles of existing water lines and other appurtenances. 35.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Clay	3	$214,000	-	1,660	1.00	-	-
City of Dixon	1	$106,459	-	15	-	-	-
City of Providence	4	$8,700,000	200	5,270	2.00	19.00	-
City of Sebree	1	$15,000	-	650	-	-	-
City of Slaughters	1	$200,000	271	-	-	-	-
Henderson County Water District	2	$91,000	-	23	2.00	2.00	-
Webster County Fiscal Court	1	$230,000	-	33	-	2.00	-
Webster County Water District	5	$4,293,340	5	8,286	3.00	-	35.00
Totals:	**18**	**$13,849,799**	**476**	**15,937**	**8.00**	**23.00**	**35.00**

Community Drinking Water Systems in Webster County

Note: Serviceability counts are for households within Webster county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY1170073	Clay Water Works	Webster	1,290	555
KY1170104	Dixon Water Department	Webster	650	231
KY1170361	Providence Water Works	Webster	3,568	1,765
KY1170388	Sebree Water Department	Webster	1,596	601
KY1170400	Slaughters Water Works	Webster	295	133
KY1170995	Webster County Water District	Webster	5,280	2,224
KY0510189	Henderson County Water District	Henderson	486	215
		Totals:	13,165	5,724

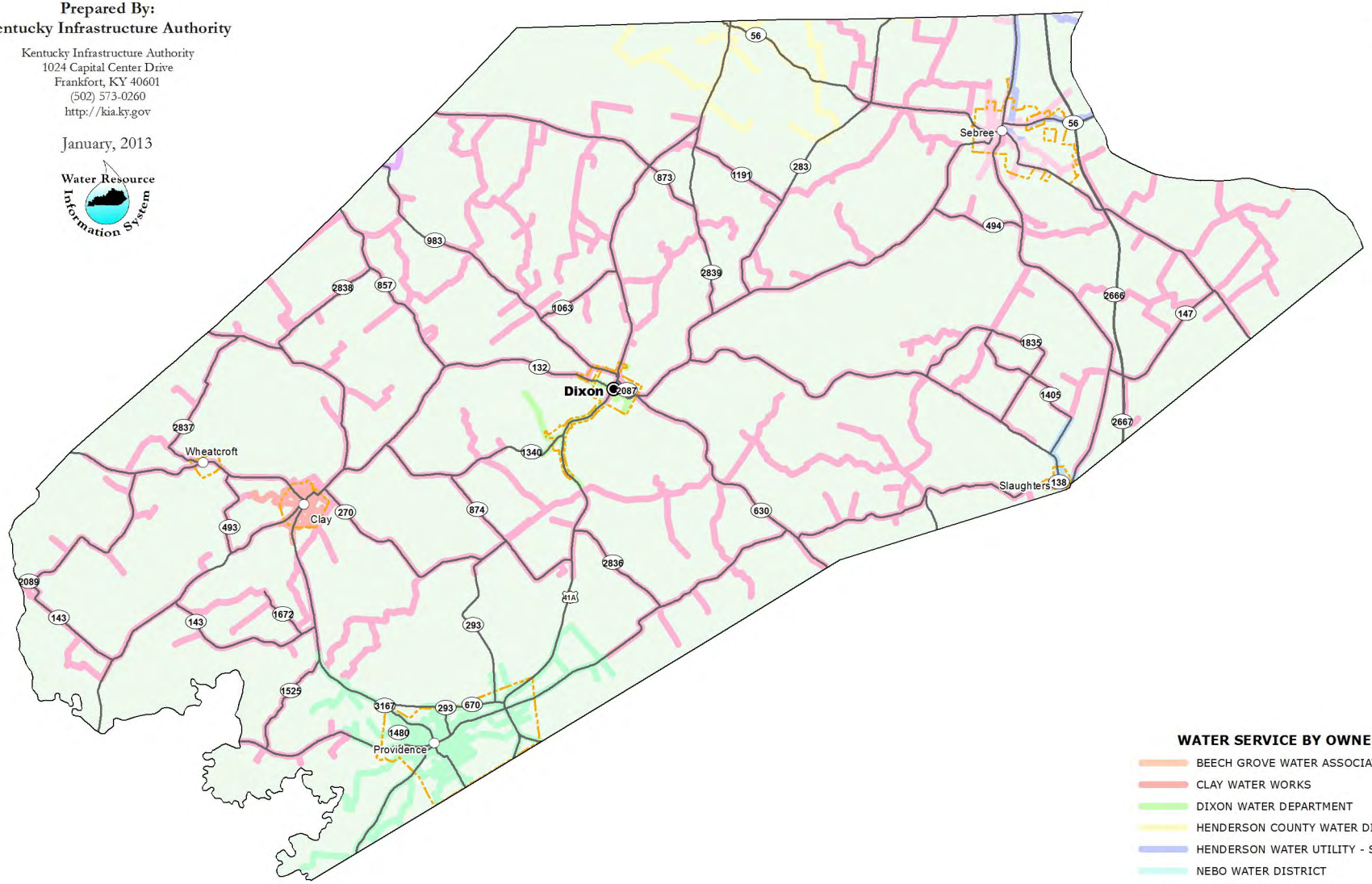
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January, 2013

Water Resource Information System



WATER SERVICE BY OWNER

- BEECH GROVE WATER ASSOCIATION
- CLAY WATER WORKS
- DIXON WATER DEPARTMENT
- HENDERSON COUNTY WATER DISTRICT
- HENDERSON WATER UTILITY - SOUTH
- NEBO WATER DISTRICT
- PROVIDENCE WATER WORKS
- SEBREE WATER DEPARTMENT
- SLAUGHTERS WATER WORKS
- UNION COUNTY WATER DISTRICT
- WEBSTER COUNTY WATER DISTRICT

System Summary for Clay Water Works

PWSID	KY1170073	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	4	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$37.50 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	$37.50 per 4,000 gallons.	Total Connections	593
Residential Customers	593	Total Produced (MG)	-
Commercial Customers	38	Total Purchased (MG)	51.550
Institutional Customers	-	Total Inside Usage (MG)	32.790
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	36%
Total Distribution System Line Length = 12.90 miles (Distribution: 12.90 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Clay Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21233090	Hwy 132 - Hwy 109 S. Water Line Replacement and West Elm Replace	3-5 Years	Not Funded	$84,000	Webster	4	3
WX21233101	East Railroad & 2nd Street Rebuild	6-10 Years	Not Funded	$100,000	Webster		6
WX21233105	Clay Stand Pipe Mixing Valve	3-5 Years	Not Funded	$30,000	Webster		7

System Summary for Dixon Water Department

PWSID	KY1170104	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	2	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$36.00 per 4,000 gallons.	Storage Capacity	No
Outside Mun. Cost	$53.00 per 4,000 gallons.	Total Connections	417
Residential Customers	390	Total Produced (MG)	-
Commercial Customers	27	Total Purchased (MG)	33.493
Institutional Customers	-	Total Inside Usage (MG)	24.200
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	28%
Total Distribution System Line Length = 10.57 miles (Distribution: 7.62 miles, Transmission: 2.95 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Dixon Water Department

System Summary for Providence Water Works

PWSID	KY1170361	Treats Water	Yes, 1 plant with total capacity of 1.500 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	4	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$22.43 per 4,000 gallons.	Storage Capacity	Yes, 3 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	$34.23 per 4,000 gallons.	Total Connections	1,522
Residential Customers	1,525	Total Produced (MG)	204.000
Commercial Customers	50	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	93.000
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	54%
Total Distribution System Line Length = 67.72 miles (Distribution: 64.84 miles, Transmission: 2.88 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Providence Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21233095	Providence Line Extension	6-10 Years	Not Funded	$1,000,000	Webster	24	5
WX21233051	Providence Waterline Rehab Project	6-10 Years	Not Funded	$2,000,000	Webster		10
WX21233056	Providence Cast Iron Pipe Rehab	6-10 Years	Not Funded	$4,500,000	Webster		11
WX21233058	WCWD/Providence Interconnection	3-5 Years	Not Funded	$230,000	Webster		12
WX21233060	Providence Water Treatment Plant Loan Payoff	3-5 Years	Not Funded	$1,200,000	Webster		13

System Summary for Sebree Water Department

PWSID	KY1170388	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	7	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$35.43 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	$37.77 per 4,000 gallons.	Total Connections	634
Residential Customers	580	Total Produced (MG)	-
Commercial Customers	64	Total Purchased (MG)	43.515
Institutional Customers	-	Total Inside Usage (MG)	40.600
Industrial Customers	3	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	7%

Total Distribution System Line Length = 20.23 miles (Distribution: 20.23 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Sebree Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21233012	City of Sebree Computer Upgrade Project	3-5 Years	Not Funded	$15,000	Webster		8

System Summary for Slaughters Water Works

PWSID	KY1170400	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	1	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$34.80 per 4,000 gallons.	Storage Capacity	No
Outside Mun. Cost	$36.80 per 4,000 gallons.	Total Connections	275
Residential Customers	260	Total Produced (MG)	-
Commercial Customers	8	Total Purchased (MG)	14.880
Institutional Customers	-	Total Inside Usage (MG)	12.467
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	16%
Total Distribution System Line Length = 12.80 miles (Distribution: 12.80 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Slaughters Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21233005	Slaughters Water Meter Replacement Project	6-10 Years	Not Funded	$200,000	Webster		9

System Summary for Webster County Water District

PWSID	KY1170995	Treats Water	Yes, 1 plant with total capacity of 3.600 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	9	Wholesale Purchaser	No
Non-Municipal Cost	$33.40 per 4,000 gallons.	Wholesale Provider	Yes, to 5 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 6 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	-	Total Connections	1,998
Residential Customers	1,885	Total Produced (MG)	369.000
Commercial Customers	29	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	250.952
Industrial Customers	9	Total Wholesale Sold (MG)	99.923
Wholesale Customers	5	Estimated Pct. Water Loss	5%
Total Distribution System Line Length = 346.76 miles (Distribution: 341.60 miles, Transmission: 5.16 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Webster County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21233009	Webster County Water District Water Tank Maintenance/ Mixing System	3-5 Years	Not Funded	$500,000	Webster	5	2
WX21233102	Reworking Mt. Pleasant to Dixon Pumpstation	0-2 Years	Not Funded	$80,000	Webster	12	4
WX21233058	WCWD/Providence Interconnection	3-5 Years	Not Funded	$230,000	Webster		12
WX21233062	Crowder Road Extension	3-5 Years	Not Funded	$173,340	Webster		14
WX21233007	Webster County Water District Water Plant Instrument Improvement	3-5 Years	Not Funded	$40,000	Webster		15
WX21233032	WCWD Long Term System Improvements	6-10 Years	Not Funded	$3,500,000	Webster		16

Gateway Area Development District (GWADD)

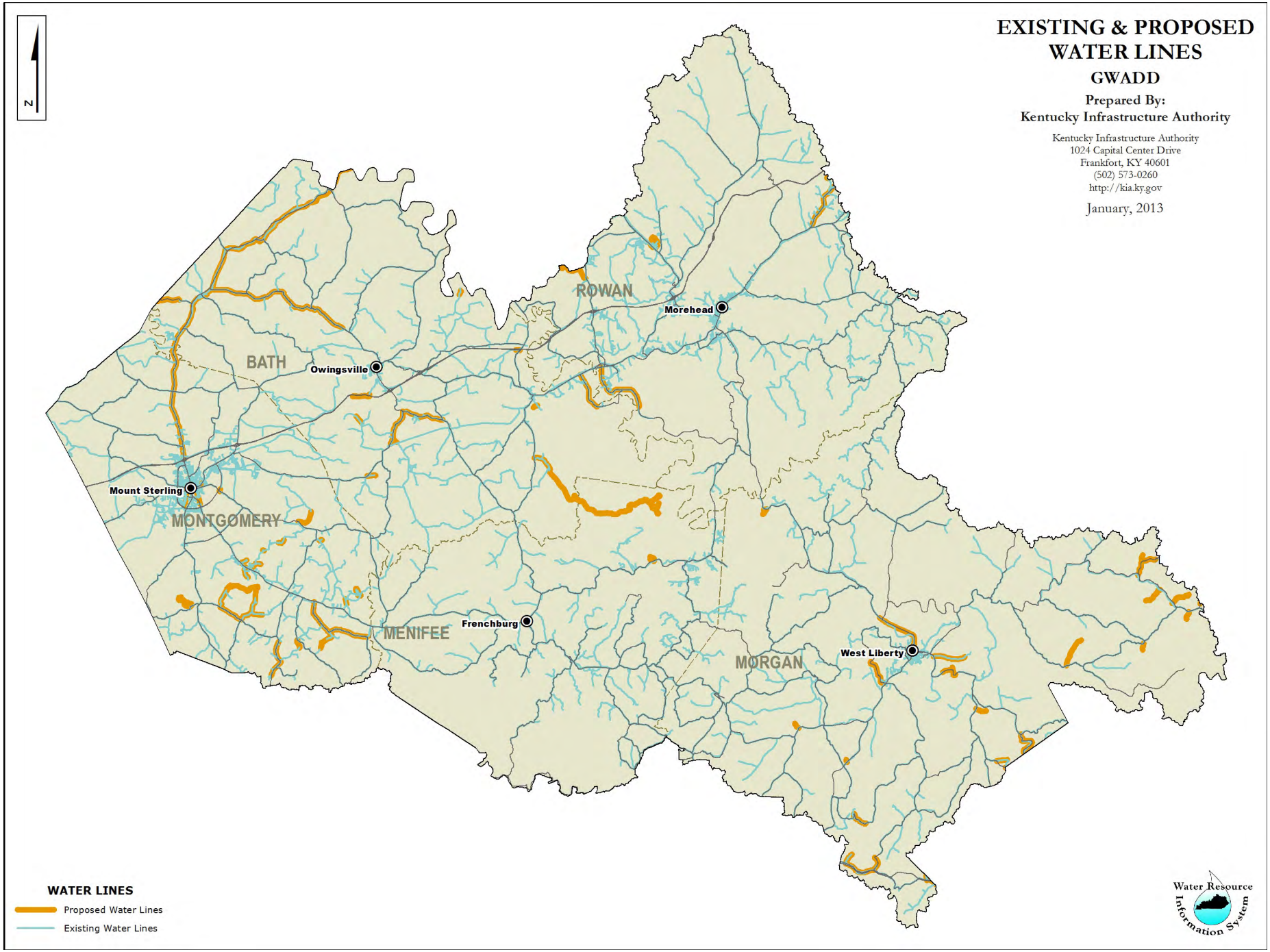


- 2010 census population of 81,652 (36,780 households) with 96% serviceable.
- Projected 2020 population of 87,651 (change of 5,999).
- 1,818.94 miles of existing water lines.
- 18.00 miles of line extensions proposed in the next 10 years.
- 20.00 miles of line rehabilitation proposed in the next 10 years.
- 1.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $10,448,920.
- Estimated funding needs for projects from 6 to 10 years: $6,440,045.
- Average age of structures: water treatment plants is 40 years; water tanks is 22 years.
- Total number of interconnected systems is 29.
- 32 miles of asbestos concrete pipe currently in use.
- 644 miles of water lines less than 15 years old.
- 425 miles of water lines between 15 and 30 years old.
- 835 miles of water lines between 31 and 50 years old.
- 142 miles of water lines between 51 and 70 years old.
- 12 miles of water lines greater than 70 years old.

Gateway Area Development District has a 2010 census population count of 81,652 (36,780 households) with a projected 2020 population count of 87,651 (34,583 households). Public water is currently available to approximately 96 percent of the district's households based on 2010 census counts. Over the next ten years approximately 105 serviceable households will be added through the construction of 18.00 miles of water line extensions and approximately 171,349 instances of improved service through the rehabilitation of 20.00 miles of existing water lines and other appurtenances. 1.00 miles of transmission lines are also proposed within this district.

County Summary for Gateway Area Development District

County Name	2010 Population	2010 Households	2020 Population	2020 Households	Serviceable Households	Percent Serviceable	Planned Cost 0 to 10 Years
Bath	11,591	5,405	12,132	5,006	5,146	95%	$ 4,917,470
Menifee	6,306	3,744	6,038	2,422	3,487	93%	$ 2,248,150
Montgomery	26,499	11,699	30,750	12,483	11,652	100%	$ 4,632,445
Morgan	13,923	5,830	14,023	5,126	5,126	88%	$ 1,190,900
Rowan	23,333	10,102	24,708	9,546	9,904	98%	$ 3,900,000
Totals	**81,652**	**36,780**	**87,651**	**34,583**	**35,315**	**96%**	**$ 16,888,965**


EXISTING & PROPOSED
WATER LINES
GWADD
Prepared By:
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Kentucky Infrastructure Authority
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January, 2013
N
ROWAN
Morehead
BATH
Owingsville
Mount Sterling
MONTGOMERY
MENIFEE
Frenchburg
MORGAN
West Liberty
WATER LINES
Proposed Water Lines
Existing Water Lines
Water Resource
Information System

Community Water Systems in Gateway Area Development District County

Note: Serviceable counts include households outside the area development district.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0060022	Bath County Water District	Bath	8,842	3,990
KY0060338	Owingsville Water and Sewer	Bath	1,919	959
KY0060392	Sharpsburg Water District	Bath	3,157	1,426
KY0830148	Frenchburg Water and Sewer	Menifee	5,204	3,231
KY0870212	Jeffersonville Water System	Montgomery	4,634	2,016
KY0870147	Judy Water Association	Montgomery	4,606	1,939
KY0870246	Levee Road Water Association, Inc	Montgomery	2,166	917
KY0870290	Montgomery County Water District #1	Montgomery	1,812	756
KY0870298	Mount Sterling Water and Sewer System	Montgomery	12,030	5,533
KY0870367	Reid Village Water District	Montgomery	2,543	1,081
KY0880594	Morgan County Water District	Morgan	8,434	3,876
KY0880452	West Liberty Water Works	Morgan	3,398	880
KY1030480	Morehead State University	Rowan	1,693	180
KY1030292	Morehead Utility Plant Board	Rowan	7,925	3,540
KY1030375	Rowan Water, Inc	Rowan	16,156	7,514
		Totals:	84,519	37,838

Gateway Area Development District
Regional Water Needs Assessment

Primary Need: **Repair and Replace Existing Infrastructure**
Secondary Need: **Meet Regulartory Requirements**

Discussion of Area Development District Needs:

There are a total of 16 water systems serving the Gateway Area Development District. Each water utility in the Gateway ADD was provided with the opportunity to identify the needs for the system. The needs of every system were considered in the determination of the Gateway Area Development District's primary and secondary Drinking Water needs.

The District's primary Drinking Water need is Repair/Replace Existing Infrastructure. This is the primary need for four of the five planning units, excluding Rowan County. Many of the utilities have identified this as their primary need due to aging waterline infrastructure in which line breaks are becoming more prevalent. Numerous other valve replacements, tank cleanings, and pump station projects are in need of attention due to age and increases in population served.

The secondary Drinking Water need is Meet Regulatory Requirements in the Gateway District. With more stringent rules and regulations being enforced, utilities need additional resources to keep up with changes. Rehabilitation work to treatment plant filters and flushing valves throughout the distribution systems will help keep chemical levels, in the water, within specified requirements.

Additional needs for the District, as identified by utilities, are Increase Storage Capacity to better serve existing customers and, to add additional customers on existing lines. Improve Security Risks by adding cameras and alarm systems to treatment plants and system appurtenances and Extend Services to Un-Served Areas.

Description and Determination of Planning Units:

The Gateway Area Development District covers five planning units, each following a political county boundary. The five planning units are: Bath County, Menifee County, Montgomery County, Morgan County, and Rowan County.

There are three water utilities in Bath County. Two water districts, Bath County Water District and Sharpsburg Water District, and one municipality, City of Owingsville Water and Sewer.

Two utilities are included in the Menifee County Planning Unit, City of Frenchburg Water and Sewer, a municipality, and Cave Run Water Commission. Cave Run Water Commission is a wholesale water producer and does not have residential customers. Cave Run supplies water to the City of Frenchburg Water and Sewer, Jeffersonville Water, and Morgan County Water District.

The Montgomery County Planning unit includes six water utilities. Two utilities are municipalities; Mount Sterling Water and Sewer and Jeffersonville Water, two associations; Judy Water and Levee Road Water, and two water districts; Montgomery County Water District #1 and Reid Village.

One municipality, West Liberty Water Works, and one water district, Morgan County Water District, make up the two water utilities in the Morgan County Planning Unit.

Three water systems are located in the Rowan County Planning Unit. There is one municipality, Morehead Utility Plant Board, one association, Rowan Water, Inc., and one higher education institution, Morehead State University. Morehead State University only serves the population on campus.

Gateway Area Development District
Project Ranking Methodology

The Gateway Area Water Management Council prioritizes projects based on points. Points are given under the following categories: Project Impact and Project Status.

Project Impact

Under this category, points are awarded based on the regional needs met by the project, the scope of impact, and the delivery of the project. Regional needs are based on the Regional Needs Assessment and projects are warded points based upon which regional need is met. Each regional need has a point value established by the Water Management Council. The scope of impact includes the impact of the project to un-served households, underserved households, and economic stimulation. Un-served households are homes that currently do not have public water/wastewater service available to them. Underserved households are homes that have public water/wastewater service, but the completion of the proposed project will improve service and/or quality to said areas in the utility's system. Points are allocated to the economic stimulation group based on the number of jobs the completed project will create. The more households and jobs that a project affects/creates, the more points the project is given. Projects that have more than one scope can receive an additional 5 points and other unlisted project scopes can receive 5 points - maximum points possible for project scope is 20 points. Project Delivery is allotted 20 points for a regional project and 5 points for a non-regional project. A regional project affects more than one utility.

Project Status

Under this category, points are awarded based on project development, commitment of funds, project timeline, and funding type. For project development, projects are given 5 points for preliminary planning, 10 points for attaining a cost estimate from a project engineer or for procuring an engineer for the project, 15 points if a preliminary engineering report is completed, or 20 points if engineering plans and specs have been completed and submitted to Division of Water. The maximum value of point awarded for commitment of funds is 20 points for projects with more than 50% of the total project cost committed - projects with 25-49% of project funds receive 10 points and projects with less than 25% of project funds committed or with pending applications receive 5 points. Projects with a timeline that is more than 10 years receive 5 points, project scheduled for 6-10 years receive 10 points, and project that will take place in 5 years or less receive 20 points. Finally, projects are awarded points based on the type of anticipated funding - projects that will utilize 100% loan funding receive 20 points, projects that will utilize both loan and grant funding receive 10 points, and projects that will only utilize grant funds receive 5 points.

The category totals are added together for a maximum of 140 points possible. The higher the cumulative total, the higher the project is ranked. For projects with the same overall point total, a cost per connection tie breaker is utilized. The cost per connection tie breaker is calculated using the estimated project cost divided by the total number of households the project will affect. The lower the cost per connection, the higher ranking the project receives.

All profiled projects that are submitted to the Water Management Council are prioritized and receive both a county and regional ranking. The prioritization of the projects is based on the points allocated during the ranking process.

Project Rankings For Gateway Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21165023	System Improvement Project	0-2 Years	Not Funded	$700,000	Menifee	1	1
WX21011034	Scattered Site System Improvements 2015	0-2 Years	Not Funded	$925,470	Bath	2	1
WX21205047	Morehead Utility Plant Board Water Treatment Plant Rehabilitation	0-2 Years	Not Funded	$320,440	Rowan	3	1
WX21205045	Morehead Utility Plant Board MMRC Water Tank Rehabilitation	0-2 Years	Not Funded	$320,440	Rowan	4	2
WX21205027	Morehead Utility Plant Board Paint US 60 Water Tank Project	0-2 Years	Not Funded	$256,920	Rowan	5	3
WX21011011	City of Owingsville Water Storage Tank Project - Phase 1.1	0-2 Years	Not Funded	$1,100,000	Bath	6	2
WX21175022	City of West Liberty Highway 519 Water Storage Tank Improvement Project	3-5 Years	Not Funded	$209,600	Morgan	7	1
WX21175023	City of West Liberty Johnson Hill Storage Tank Rehabilitation	3-5 Years	Not Funded	$170,600	Morgan	8	2
WX21205028	Morehead Utility Plant Board Guardian Pump Station Rehabilitation	0-2 Years	Not Funded	$102,200	Rowan	9	4
WX21205041	Morehead Utility Plant Board Water Treatment Plant Improvement Project	3-5 Years	Not Funded	$200,000	Rowan	10	5
WX21205039	Morehead Utility Plant Board 500,000 Gallon Water Tank Project	6-10 Years	Not Funded	$800,000	Rowan	11	6
WX21173134	Mount Sterling Water and Sewer Bottom of Filter Chlorine Analyzers	3-5 Years	Not Funded	$25,000	Montgomery	12	1
WX21173043	Mt. Sterling Water & Sewer WTP Backwash Valve Replacement	3-5 Years	Not Funded	$75,000	Montgomery	13	2
WX21205035	Morehead Utility Plant Board 801 South Waterline Rehab Project	3-5 Years	Not Funded	$900,000	Rowan	14	7
WX21175013	Morgan County District Water Tank Rehab Project	3-5 Years	Not Funded	$200,000	Morgan	15	3
WX21205043	Rowan Water Inc. Water Tank Rehab Project	3-5 Years	Not Funded	$600,000	Rowan	16	8
WX21011019	Sharpsburg Water District Meter Replacement Project	3-5 Years	Not Funded	$200,000	Bath	17	3
WX21011021	Sharpsburg Water District Water Tank Rehab Project	3-5 Years	Not Funded	$500,000	Bath	18	4
WX21175021	City of West Liberty Davis Lane Waterline Replacement Project	3-5 Years	Not Funded	$135,700	Morgan	19	4
WX21011016	Bath County Water District Standby Power Generator Project	6-10 Years	Not Funded	$120,000	Bath	20	5
WX21175030	City of West Liberty Broadway, Main, and Prestonburg Streets Line Replacement Project	3-5 Years	Not Funded	$300,000	Morgan	21	5
WX21175009	City of West Liberty McClain Way Increase Pressure Project	3-5 Years	Not Funded	$75,000	Morgan	22	6
WX21173094	Mt. Sterling Water & Sewer System Automatic Flush Valve Project	3-5 Years	Not Funded	$35,000	Montgomery	23	3
WX21173102	Montgomery County Water District No. 1 Automatic Flush Valve Project	3-5 Years	Not Funded	$7,500	Montgomery	24	4
WX21173095	Mt. Sterling Water & Sewer System Valve Replacement Project	6-10 Years	Not Funded	$150,000	Montgomery	25	5
WX21173090	Levee Road Water Association Gate Valve Project	3-5 Years	Not Funded	$50,000	Montgomery	26	6
WX21173133	Montgomery County Water District #1 US 460 Vault Valve Replacement	6-10 Years	Not Funded	$60,000	Montgomery	27	7
WX21173112	City of Jeffersonville Radio Read Meter Project	3-5 Years	Not Funded	$342,000	Montgomery	28	8
WX21205029	Rowan Water Inc. Tank Rehab and Meter Pit Project	0-2 Years	Not Funded	$250,000	Rowan	29	9
WX21173106	Judy Water Association Meter Change-Out Project	3-5 Years	Not Funded	$200,000	Montgomery	30	9
WX21173041	Mt. Sterling Water & Sewer Main Street Water Main Replacement	3-5 Years	Not Funded	$800,000	Montgomery	31	10
WX21173047	Levee Road Water Association Countryside Drive Waterline Extension	6-10 Years	Not Funded	$246,045	Montgomery	32	11

Project Rankings For Gateway Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21165017	City of Frenchburg Mountain Ridge Road Waterline Extension	3-5 Years	Not Funded	$91,150	Menifee	33	2
WX21173121	Judy Water Association Water Tank Inspection Project	3-5 Years	Not Funded	$50,000	Montgomery	34	12
WX21173066	Mt. Sterling Water & Sewer System Fire Hydrant Project	6-10 Years	Not Funded	$168,000	Montgomery	35	13
WX21173065	Mt. Sterling Water & Sewer System South Queen Project	3-5 Years	Not Funded	$326,000	Montgomery	36	14
WX21173125	City of Jeffersonville Welch Road Project - Phase II	11-20 Years	Not Funded	$250,000	Montgomery	37	15
WX21011018	Bath County Water District Mapping & GPS Data Collection Project	11-20 Years	Not Funded	$106,000	Bath	38	6
WX21173059	City of Jeffersonville Highway 599 Water Tank Rehab Project	6-10 Years	Not Funded	$99,000	Montgomery	39	16
WX21173110	Montgomery County Water District #1 Fire Hydrant Improvement Project	3-5 Years	Not Funded	$70,000	Montgomery	40	17
WX21173096	Mt Sterling Water & Sewer System GIS Project	3-5 Years	Not Funded	$225,000	Montgomery	41	18
WX21173135	Mount Sterling Water and Sewer Storage Tank Demolition and Maintenance	3-5 Years	Not Funded	$225,000	Montgomery	42	19
WX21173008	Mt. Sterling Water & Sewer Spencer Road Water Main Extension	6-10 Years	Not Funded	$250,000	Montgomery	43	20
WX21173044	Montgomery County Water District #1 Whitaker Lane Vault Valve Replacement	6-10 Years	Not Funded	$60,000	Montgomery	44	21
WX21173101	Montgomery County Water District No. 1 System Improvement Project	11-20 Years	Not Funded	$300,000	Montgomery	45	22
WX21173107	Levee Road Water Association Phase III Meter Replacement Project	3-5 Years	Not Funded	$100,000	Montgomery	46	23
WX21173136	Levee Road Water Association Radio Read Meter Replacement Project	3-5 Years	Not Funded	$2,400	Montgomery	47	24
WX21173116	City of Jeffersonville Fay Street Tie In Project	3-5 Years	Not Funded	$15,000	Montgomery	48	25
WX21205034	Morehead Utility Plant Board Waterline Rehab Project	6-10 Years	Not Funded	$150,000	Rowan	49	10
WX21173111	Mount Sterling Water and Sewer Waterline Rehab Projects - Various Sites	6-10 Years	Not Funded	$600,000	Montgomery	50	26
WX21011020	Sharpsburg Water District AC Line Replacement Project	6-10 Years	Not Funded	$300,000	Bath	51	7
WX21011027	Bath County Water District Scattered Site System Improvement Project	3-5 Years	Not Funded	$140,000	Bath	52	8
WX21011009	Sharpsburg Water District Rich Lan Road Waterline Extension Project	6-10 Years	Not Funded	$100,000	Bath	53	9
WX21165022	City of Frenchburg Leatherwood Area Waterline Extension Project	6-10 Years	Not Funded	$1,432,000	Menifee	54	3
WX21165010	Cave Run Water Commission Storage Building Project	3-5 Years	Not Funded	$25,000	Menifee	55	4
WX21173137	Levee Road Water Association Line Checking Meter Project	3-5 Years	Not Funded	$3,500	Montgomery	56	27
WX21173117	City of Jeffersonville Equipment Project	3-5 Years	Not Funded	$10,000	Montgomery	57	28
WX21173132	Montgomery County Water District #1 Building Project Phase II	3-5 Years	Not Funded	$15,000	Montgomery	58	29
WX21173115	City of Jeffersonville Utility Truck Project	3-5 Years	Not Funded	$50,000	Montgomery	59	30
WX21173128	Mt. Sterling Water & Sewer System Equipment Project	6-10 Years	Not Funded	$175,000	Montgomery	60	31
WX21175020	Morgan County Water District Equipment Project	3-5 Years	Not Funded	$100,000	Morgan	61	7
WX21205044	Rowan Water Inc. New Pump Station and Tank Project	11-20 Years	Not Funded	$600,000	Rowan	62	11
WX21173050	City of Jeffersonville New Cut Rd Line Replacement Project	6-10 Years	Not Funded	$50,000	Montgomery	63	32

Project Rankings For Gateway Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21173088	Judy Water Association Bourbon County Line Upgrade Project	6-10 Years	Not Funded	$300,000	Montgomery	64	33
WX21173051	City of Jeffersonville Corey Lane Improvement Project	6-10 Years	Not Funded	$18,000	Montgomery	65	34
WX21011030	City of Owingsville Atkinson Road Waterline Extension Project	6-10 Years	Not Funded	$100,000	Bath	66	10
WX21173138	Levee Road Water Association Fence Replacement Project	6-10 Years	Not Funded	$10,000	Montgomery	67	35
WX21173048	City of Jeffersonville Highway 1050 Line Replacement Project	11-20 Years	Not Funded	$300,000	Montgomery	68	36
WX21173109	Montgomery County Water District #1 Concrete Abestos Pipe Replacement	11-20 Years	Not Funded	$400,000	Montgomery	69	37
WX21173126	City of Jeffersonville Lower Spruce Tie In Project	11-20 Years	Not Funded	$120,000	Montgomery	70	38
WX21173114	City of Jeffersonville Harpers Ridge Waterline Tie-In Project	11-20 Years	Not Funded	$100,000	Montgomery	71	39
WX21173113	City of Jeffersonville Spruce Valley Waterline Tie In Project	11-20 Years	Not Funded	$80,000	Montgomery	72	40
WX21173049	City of Jeffersonville Highway 213 Line Replacement Project	11-20 Years	Not Funded	$275,000	Montgomery	73	41
WX21173123	Montgomery County Water District No. 1 Equipment Project	11-20 Years	Not Funded	$15,000	Montgomery	74	42
WX21173054	Mount Sterling Water and Sewer Storage Building Project	11-20 Years	Not Funded	$120,000	Montgomery	75	43
WX21173120	Reid Village Water District Maintenance Building Project	11-20 Years	Not Funded	$50,000	Montgomery	76	44
WX21173124	Montgomery County Water District No. 1 Backhoe & Dump Truck Project	11-20 Years	Not Funded	$105,000	Montgomery	77	45
WX21173139	Reid Village Water District Office Building Purchase Project	11-20 Years	Not Funded	$275,000	Montgomery	78	46
			Total Cost:	**$18,732,965**			

Bath County

- 2010 census population of 11,591 (5,405 households) with 95% serviceable.
- Projected 2020 population of 12,132 (change of 541).
- Bath County has 342.09 miles of existing water lines.
- 7.00 miles of line extensions proposed in the next 10 years.
- 12.00 miles of line rehabilitation proposed in the next 10 years.
- 1.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $2,865,470.
- Estimated funding needs for projects from 6 to 10 years: $2,052,000.



Bath County has a 2010 census population count of 11,591 (5,405 households) with a projected 2020 population count of 12,132 (5,006 households). Public water is currently available to approximately 95 percent of the county's households based on 2010 census counts. Over the next ten years approximately 54 serviceable households will be added through the construction of 7.00 miles of water line extensions and approximately 15,927 instances of improved service through the rehabilitation of 12.00 miles of existing water lines and other appurtenances. 1.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Bath County Water District	3	$1,185,470	19	13,411	-	6.00	-
City of Frenchburg	1	$1,432,000	26	-	4.00	-	-
City of Owingsville	2	$1,200,000	5	20	2.00	-	1.00
Sharpsburg Water District	4	$1,100,000	4	2,496	1.00	6.00	-
Totals:	**10**	**$4,917,470**	**54**	**15,927**	**7.00**	**12.00**	**1.00**

Community Drinking Water Systems in Bath County

Note: Serviceability counts are for households within Bath county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0060022	Bath County Water District	Bath	6,903	3,160
KY0060338	Owingsville Water and Sewer	Bath	1,919	959
KY0060392	Sharpsburg Water District	Bath	1,890	883
KY0830148	Frenchburg Water and Sewer	Menifee	203	94
KY0870147	Judy Water Association	Montgomery	123	43
		Totals:	11,038	5,139

WATER SERVICE AREAS
BATH COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

Kentucky Infrastructure Authority
1024 Capital Center Drive
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January, 2013

Water Resource Information System



System Summary for Bath County Water District

PWSID	KY0060022	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	8	Wholesale Purchaser	Yes, from 4 providers.
Non-Municipal Cost	$27.42 per 4,000 gallons.	Wholesale Provider	Yes, to 3 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 6 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	3,717
Residential Customers	3,622	Total Produced (MG)	-
Commercial Customers	86	Total Purchased (MG)	377.889
Institutional Customers	-	Total Inside Usage (MG)	202.500
Industrial Customers	6	Total Wholesale Sold (MG)	143.071
Wholesale Customers	3	Estimated Pct. Water Loss	9%
Total Distribution System Line Length = 285.81 miles (Distribution: 279.03 miles, Transmission: 6.78 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Bath County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21011034	Scattered Site System Improvements 2015	0-2 Years	Not Funded	$925,470	Bath	2	1
WX21205047	Morehead Utility Plant Board Water Treatment Plant Rehabilitation	0-2 Years	Not Funded	$320,440	Rowan	3	1
WX21173043	Mt. Sterling Water & Sewer WTP Backwash Valve Replacement	3-5 Years	Not Funded	$75,000	Montgomery	13	2
WX21011016	Bath County Water District Standby Power Generator Project	6-10 Years	Not Funded	$120,000	Bath	20	5
WX21011027	Bath County Water District Scattered Site System Improvement Project	3-5 Years	Not Funded	$140,000	Bath	52	8

System Summary for Owingsville Water and Sewer

PWSID	KY0060338	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	5	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$22.78 per 4,000 gallons.	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$26.22 per 4,000 gallons.	Total Connections	845
Residential Customers	747	Total Produced (MG)	-
Commercial Customers	85	Total Purchased (MG)	84.851
Institutional Customers	12	Total Inside Usage (MG)	69.533
Industrial Customers	-	Total Wholesale Sold (MG)	9.018
Wholesale Customers	1	Estimated Pct. Water Loss	7%
Total Distribution System Line Length = 26.60 miles (Distribution: 26.20 miles, Transmission: 0.40 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Owingsville Water and Sewer

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21011034	Scattered Site System Improvements 2015	0-2 Years	Not Funded	$925,470	Bath	2	1
WX21011011	City of Owingsville Water Storage Tank Project - Phase 1.1	0-2 Years	Not Funded	$1,100,000	Bath	6	2
WX21011030	City of Owingsville Atkinson Road Waterline Extension Project	6-10 Years	Not Funded	$100,000	Bath	66	10

System Summary for Sharpsburg Water District

PWSID	KY0060392	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	3	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	$37.54 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 4 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	1,451
Residential Customers	1,422	Total Produced (MG)	-
Commercial Customers	26	Total Purchased (MG)	88.504
Institutional Customers	-	Total Inside Usage (MG)	77.275
Industrial Customers	2	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	13%

Total Distribution System Line Length = 128.51 miles (Distribution: 128.44 miles, Transmission: 0.07 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Sharpsburg Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21011034	Scattered Site System Improvements 2015	0-2 Years	Not Funded	$925,470	Bath	2	1
WX21011019	Sharpsburg Water District Meter Replacement Project	3-5 Years	Not Funded	$200,000	Bath	17	3
WX21011021	Sharpsburg Water District Water Tank Rehab Project	3-5 Years	Not Funded	$500,000	Bath	18	4
WX21011020	Sharpsburg Water District AC Line Replacement Project	6-10 Years	Not Funded	$300,000	Bath	51	7
WX21011009	Sharpsburg Water District Rich Lan Road Waterline Extension Project	6-10 Years	Not Funded	$100,000	Bath	53	9

Menifee County

- 2010 census population of 6,306 (3,744 households) with 93% serviceable.
- Projected 2020 population of 6,038 (change of -268).
- Menifee County has 234.60 miles of existing water lines.
- 7.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $816,150.
- Estimated funding needs for projects from 6 to 10 years: $1,432,000.



Menifee County has a 2010 census population count of 6,306 (3,744 households) with a projected 2020 population count of 6,038 (2,422 households). Public water is currently available to approximately 93 percent of the county's households based on 2010 census counts. Over the next ten years approximately 31 serviceable households will be added through the construction of 7.00 miles of water line extensions and approximately 11,296 instances of improved service through system wide upgrades.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Cave Run Water Commission	2	$725,000	-	11,296	-	-	-
City of Frenchburg	2	$1,523,150	31	-	7.00	-	-
Totals:	**4**	**$2,248,150**	**31**	**11,296**	**7.00**	**-**	**-**

Community Drinking Water Systems in Menifee County

Note: Serviceability counts are for households within Menifee county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0830148	Frenchburg Water and Sewer	Menifee	4,894	3,050
KY0060022	Bath County Water District	Bath	974	414
KY0870212	Jeffersonville Water System	Montgomery	47	20
		Totals:	5,915	3,484

WATER SERVICE AREAS
MENIFEE COUNTY
Kentucky

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January, 2013



System Summary for Cave Run Water Commission

PWSID	KY0831010	Treats Water	Yes, 1 plant with total capacity of 2.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Regional Water Commission	Groundwater Source	No
Employees	3	Wholesale Purchaser	No
Non-Municipal Cost	$9.80 per 4,000 gallons.	Wholesale Provider	Yes, to 3 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	
Residential Customers	-	Total Produced (MG)	356.506
Commercial Customers	-	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	9.000
Industrial Customers	-	Total Wholesale Sold (MG)	324.689
Wholesale Customers	3	Estimated Pct. Water Loss	6%
Total Distribution System Line Length = 32.62 miles (Distribution: 0.00 miles, Transmission: 32.62 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Cave Run Water Commission

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21165023	System Improvement Project	0-2 Years	Not Funded	$700,000	Menifee	1	1
WX21165010	Cave Run Water Commission Storage Building Project	3-5 Years	Not Funded	$25,000	Menifee	55	4

System Summary for Frenchburg Water and Sewer

PWSID	KY0830148	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	7	Wholesale Purchaser	Yes, from 3 providers.
Non-Municipal Cost	-	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	$25.78 per 4,000 gallons.	Storage Capacity	Yes, 5 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$35.14 per 4,000 gallons.	Total Connections	2,746
Residential Customers	2,664	Total Produced (MG)	-
Commercial Customers	77	Total Purchased (MG)	154.923
Institutional Customers	3	Total Inside Usage (MG)	129.000
Industrial Customers	-	Total Wholesale Sold (MG)	5.307
Wholesale Customers	2	Estimated Pct. Water Loss	13%
Total Distribution System Line Length = 193.28 miles (Distribution: 191.40 miles, Transmission: 1.88 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Frenchburg Water and Sewer

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21165023	System Improvement Project	0-2 Years	Not Funded	$700,000	Menifee	1	1
WX21165017	City of Frenchburg Mountain Ridge Road Waterline Extension	3-5 Years	Not Funded	$91,150	Menifee	33	2
WX21165022	City of Frenchburg Leatherwood Area Waterline Extension Project	6-10 Years	Not Funded	$1,432,000	Menifee	54	3
WX21165010	Cave Run Water Commission Storage Building Project	3-5 Years	Not Funded	$25,000	Menifee	55	4

Montgomery County

- 2010 census population of 26,499 (11,699 households) with 100% serviceable.
- Projected 2020 population of 30,750 (change of 4,251).
- Montgomery County has 375.85 miles of existing water lines.
- 4.00 miles of line extensions proposed in the next 10 years.
- 3.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $2,626,400.
- Estimated funding needs for projects from 6 to 10 years: $2,006,045.



Montgomery County has a 2010 census population count of 26,499 (11,699 households) with a projected 2020 population count of 30,750 (12,483 households). Public water is currently available to approximately 100 percent of the county's households based on 2010 census counts. Over the next ten years approximately 20 serviceable households will be added through the construction of 4.00 miles of water line extensions and approximately 78,341 instances of improved service through the rehabilitation of 3.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Bath County Water District	1	$120,000	-	-	-	-	-
City of Jeffersonville	7	$584,000	-	6,889	1.00	-	-
Judy Water Association Inc	2	$250,000	-	2,865	-	-	-
Levee Road Water Association Inc	6	$411,945	19	2,808	2.00	-	-
Montgomery County Water District #1	5	$212,500	-	2,595	-	-	-
Mount Sterling Water and Sewer	12	$3,054,000	1	63,184	1.00	3.00	-
Totals:	**33**	**$4,632,445**	**20**	**78,341**	**4.00**	**3.00**	**-**

Community Drinking Water Systems in Montgomery County

Note: Serviceability counts are for households within Montgomery county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0870212	Jeffersonville Water System	Montgomery	4,587	1,996
KY0870147	Judy Water Association	Montgomery	2,432	1,013
KY0870246	Levee Road Water Association, Inc	Montgomery	2,137	905
KY0870290	Montgomery County Water District #1	Montgomery	1,812	756
KY0870298	Mount Sterling Water and Sewer System	Montgomery	12,030	5,533
KY0870367	Reid Village Water District	Montgomery	2,428	1,036
KY0060022	Bath County Water District	Bath	930	399
		Totals:	26,356	11,638

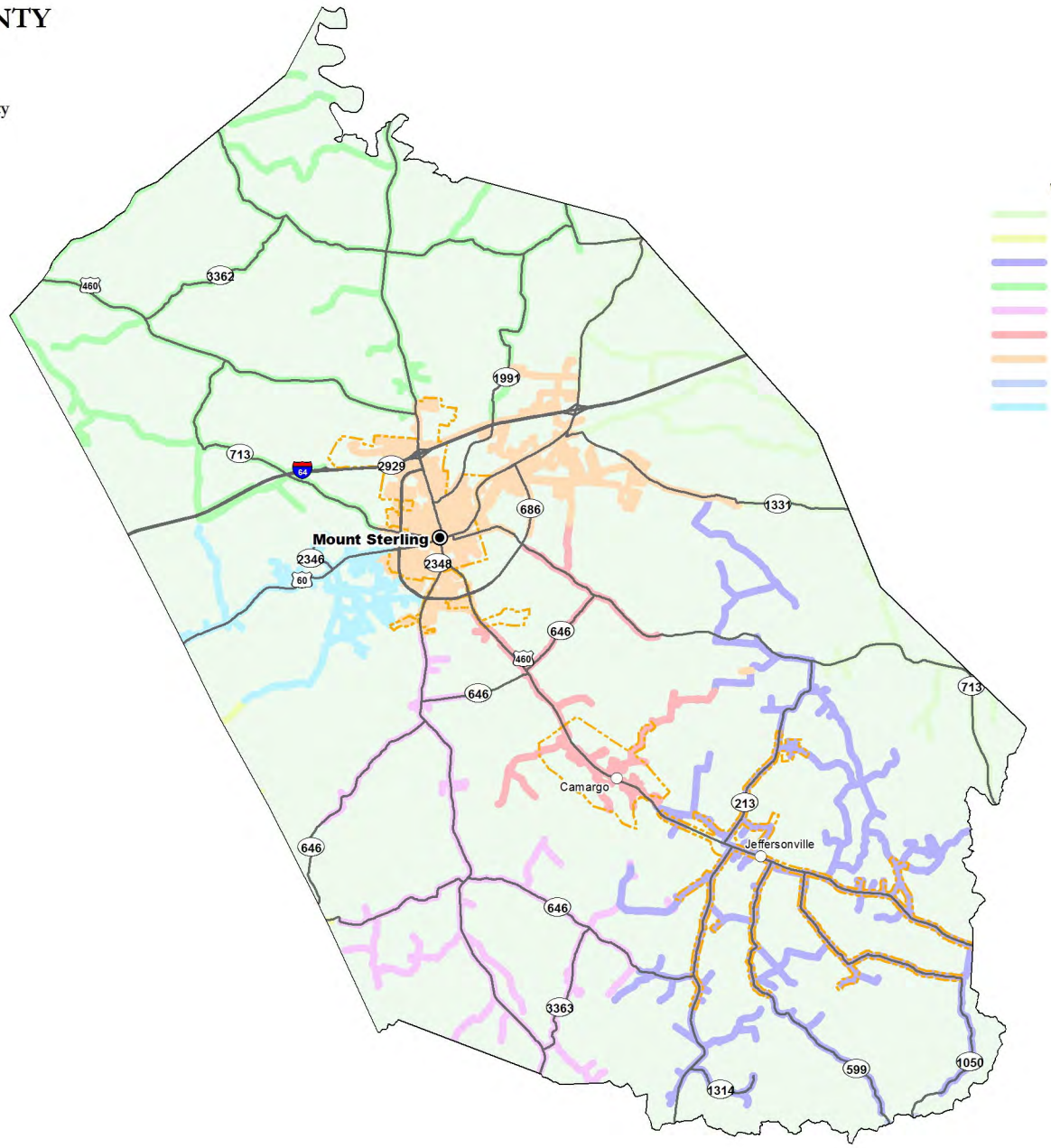
WATER SERVICE AREAS
MONTGOMERY COUNTY
Kentucky

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January, 2013

Water Resource Information System



System Summary for Jeffersonville Water System

PWSID	KY0870212	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	4	Wholesale Purchaser	Yes, from 3 providers.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$33.85 per 4,000 gallons.	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$33.85 per 4,000 gallons.	Total Connections	1,809
Residential Customers	1,759	Total Produced (MG)	-
Commercial Customers	48	Total Purchased (MG)	106.265
Institutional Customers	-	Total Inside Usage (MG)	89.350
Industrial Customers	2	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	16%

Total Distribution System Line Length = 82.77 miles (Distribution: 79.65 miles, Transmission: 3.12 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Jeffersonville Water System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21165023	System Improvement Project	0-2 Years	Not Funded	$700,000	Menifee	1	1
WX21173043	Mt. Sterling Water & Sewer WTP Backwash Valve Replacement	3-5 Years	Not Funded	$75,000	Montgomery	13	2
WX21173112	City of Jeffersonville Radio Read Meter Project	3-5 Years	Not Funded	$342,000	Montgomery	28	8
WX21173059	City of Jeffersonville Highway 599 Water Tank Rehab Project	6-10 Years	Not Funded	$99,000	Montgomery	39	16
WX21173116	City of Jeffersonville Fay Street Tie In Project	3-5 Years	Not Funded	$15,000	Montgomery	48	25
WX21165010	Cave Run Water Commission Storage Building Project	3-5 Years	Not Funded	$25,000	Menifee	55	4
WX21173117	City of Jeffersonville Equipment Project	3-5 Years	Not Funded	$10,000	Montgomery	57	28
WX21173115	City of Jeffersonville Utility Truck Project	3-5 Years	Not Funded	$50,000	Montgomery	59	30
WX21173050	City of Jeffersonville New Cut Rd Line Replacement Project	6-10 Years	Not Funded	$50,000	Montgomery	63	32
WX21173051	City of Jeffersonville Corey Lane Improvement Project	6-10 Years	Not Funded	$18,000	Montgomery	65	34

System Summary for Judy Water Association

PWSID	KY0870147	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water Association	Groundwater Source	No
Employees	7	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	$37.13 per 4,000 gallons.	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 4 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	1,888
Residential Customers	1,871	Total Produced (MG)	-
Commercial Customers	16	Total Purchased (MG)	139.605
Institutional Customers	-	Total Inside Usage (MG)	126.500
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	1	Estimated Pct. Water Loss	9%

Total Distribution System Line Length = 178.58 miles (Distribution: 178.42 miles, Transmission: 0.16 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Judy Water Association

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21173043	Mt. Sterling Water & Sewer WTP Backwash Valve Replacement	3-5 Years	Not Funded	$75,000	Montgomery	13	2
WX21173106	Judy Water Association Meter Change-Out Project	3-5 Years	Not Funded	$200,000	Montgomery	30	9
WX21173121	Judy Water Association Water Tank Inspection Project	3-5 Years	Not Funded	$50,000	Montgomery	34	12
WX21173088	Judy Water Association Bourbon County Line Upgrade Project	6-10 Years	Not Funded	$300,000	Montgomery	64	33

System Summary for Levee Road Water Association, Inc

PWSID	KY0870246	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water Association	Groundwater Source	No
Employees	5	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$23.90 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	842
Residential Customers	833	Total Produced (MG)	-
Commercial Customers	9	Total Purchased (MG)	47.101
Institutional Customers	-	Total Inside Usage (MG)	42.943
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	9%
Total Distribution System Line Length = 39.61 miles (Distribution: 38.61 miles, Transmission: 0.99 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Levee Road Water Association, Inc

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21173043	Mt. Sterling Water & Sewer WTP Backwash Valve Replacement	3-5 Years	Not Funded	$75,000	Montgomery	13	2
WX21173090	Levee Road Water Association Gate Valve Project	3-5 Years	Not Funded	$50,000	Montgomery	26	6
WX21173047	Levee Road Water Association Countryside Drive Waterline Extension	6-10 Years	Not Funded	$246,045	Montgomery	32	11
WX21173107	Levee Road Water Association Phase III Meter Replacement Project	3-5 Years	Not Funded	$100,000	Montgomery	46	23
WX21173136	Levee Road Water Association Radio Read Meter Replacement Project	3-5 Years	Not Funded	$2,400	Montgomery	47	24
WX21173137	Levee Road Water Association Line Checking Meter Project	3-5 Years	Not Funded	$3,500	Montgomery	56	27
WX21173138	Levee Road Water Association Fence Replacement Project	6-10 Years	Not Funded	$10,000	Montgomery	67	35

System Summary for Montgomery County Water District #1

PWSID	KY0870290	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	7	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$37.01 per 4,000 gallons.	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	719
Residential Customers	682	Total Produced (MG)	-
Commercial Customers	36	Total Purchased (MG)	40.517
Institutional Customers	-	Total Inside Usage (MG)	34.000
Industrial Customers	-	Total Wholesale Sold (MG)	0.316
Wholesale Customers	1	Estimated Pct. Water Loss	15%
Total Distribution System Line Length = 25.63 miles (Distribution: 23.81 miles, Transmission: 1.82 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Montgomery County Water District #1

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21173043	Mt. Sterling Water & Sewer WTP Backwash Valve Replacement	3-5 Years	Not Funded	$75,000	Montgomery	13	2
WX21173102	Montgomery County Water District No. 1 Automatic Flush Valve Project	3-5 Years	Not Funded	$7,500	Montgomery	24	4
WX21173133	Montgomery County Water District #1 US 460 Vault Valve Replacement	6-10 Years	Not Funded	$60,000	Montgomery	27	7
WX21173110	Montgomery County Water District #1 Fire Hydrant Improvement Project	3-5 Years	Not Funded	$70,000	Montgomery	40	17
WX21173044	Montgomery County Water District #1 Whitaker Lane Vault Valve Replacement	6-10 Years	Not Funded	$60,000	Montgomery	44	21
WX21173132	Montgomery County Water District #1 Building Project Phase II	3-5 Years	Not Funded	$15,000	Montgomery	58	29

System Summary for Mount Sterling Water and Sewer System

PWSID	KY0870298	Treats Water	Yes, 1 plant with total capacity of 4.300 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Municipal Utility Board or Commission	Groundwater Source	No
Employees	34	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 6 purchasers.
Inside Mun. Cost	$21.72 per 4,000 gallons.	Storage Capacity	Yes, 5 tanks with total capacity of 6.000 MG.
Outside Mun. Cost	$24.23 per 4,000 gallons.	Total Connections	5,300
Residential Customers	4,597	Total Produced (MG)	1,068.808
Commercial Customers	654	Total Purchased (MG)	-
Institutional Customers	14	Total Inside Usage (MG)	662.642
Industrial Customers	29	Total Wholesale Sold (MG)	278.353
Wholesale Customers	6	Estimated Pct. Water Loss	12%
Total Distribution System Line Length = 108.57 miles (Distribution: 104.72 miles, Transmission: 3.85 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Mount Sterling Water and Sewer System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21173134	Mount Sterling Water and Sewer Bottom of Filter Chlorine Analyzers	3-5 Years	Not Funded	$25,000	Montgomery	12	1
WX21173094	Mt. Sterling Water & Sewer System Automatic Flush Valve Project	3-5 Years	Not Funded	$35,000	Montgomery	23	3
WX21173095	Mt. Sterling Water & Sewer System Valve Replacement Project	6-10 Years	Not Funded	$150,000	Montgomery	25	5
WX21173041	Mt. Sterling Water & Sewer Main Street Water Main Replacement	3-5 Years	Not Funded	$800,000	Montgomery	31	10
WX21173066	Mt. Sterling Water & Sewer System Fire Hydrant Project	6-10 Years	Not Funded	$168,000	Montgomery	35	13
WX21173065	Mt. Sterling Water & Sewer System South Queen Project	3-5 Years	Not Funded	$326,000	Montgomery	36	14
WX21173096	Mt Sterling Water & Sewer System GIS Project	3-5 Years	Not Funded	$225,000	Montgomery	41	18
WX21173135	Mount Sterling Water and Sewer Storage Tank Demolition and Maintenance	3-5 Years	Not Funded	$225,000	Montgomery	42	19
WX21173008	Mt. Sterling Water & Sewer Spencer Road Water Main Extension	6-10 Years	Not Funded	$250,000	Montgomery	43	20
WX21173111	Mount Sterling Water and Sewer Waterline Rehab Projects - Various Sites	6-10 Years	Not Funded	$600,000	Montgomery	50	26
WX21173128	Mt. Sterling Water & Sewer System Equipment Project	6-10 Years	Not Funded	$175,000	Montgomery	60	31

System Summary for Reid Village Water District

PWSID	KY0870367	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	5	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$30.11 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	1,132
Residential Customers	1,097	Total Produced (MG)	-
Commercial Customers	35	Total Purchased (MG)	63.684
Institutional Customers	-	Total Inside Usage (MG)	59.523
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	7%

Total Distribution System Line Length = 30.24 miles (Distribution: 29.62 miles, Transmission: 0.62 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Reid Village Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21173043	Mt. Sterling Water & Sewer WTP Backwash Valve Replacement	3-5 Years	Not Funded	$75,000	Montgomery	13	2

Morgan County

- 2010 census population of 13,923 (5,830 households) with 88% serviceable.
- Projected 2020 population of 14,023 (change of 100).
- Morgan County has 419.41 miles of existing water lines.
- There are no line extensions proposed in the next 10 years.
- 1.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $1,190,900.
- There are no projects planned from 6 to 10 years.



Morgan County has a 2010 census population count of 13,923 (5,830 households) with a projected 2020 population count of 14,023 (5,126 households). Public water is currently available to approximately 88 percent of the county's households based on 2010 census counts. Over the next ten years approximately 6,757 instances of improved service through the rehabilitation of 1.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of West Liberty	5	$890,900	-	1,763	-	1.00	-
Morgan County Water District	2	$300,000	-	4,994	-	-	-
Totals:	**7**	**$1,190,900**	**-**	**6,757**	**-**	**1.00**	**-**

Community Drinking Water Systems in Morgan County

Note: Serviceability counts are for households within Morgan county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0880594	Morgan County Water District	Morgan	8,336	3,828
KY0880452	West Liberty Water Works	Morgan	3,398	880
KY0220555	Rattlesnake Ridge Water District	Carter	98	45
KY0320383	Sandy Hook Water District	Elliott	272	149
KY0830148	Frenchburg Water and Sewer	Menifee	89	77
KY1030375	Rowan Water, Inc	Rowan	231	105
KY1190061	Campton Water System	Wolfe	58	33
		Totals:	12,482	5,117

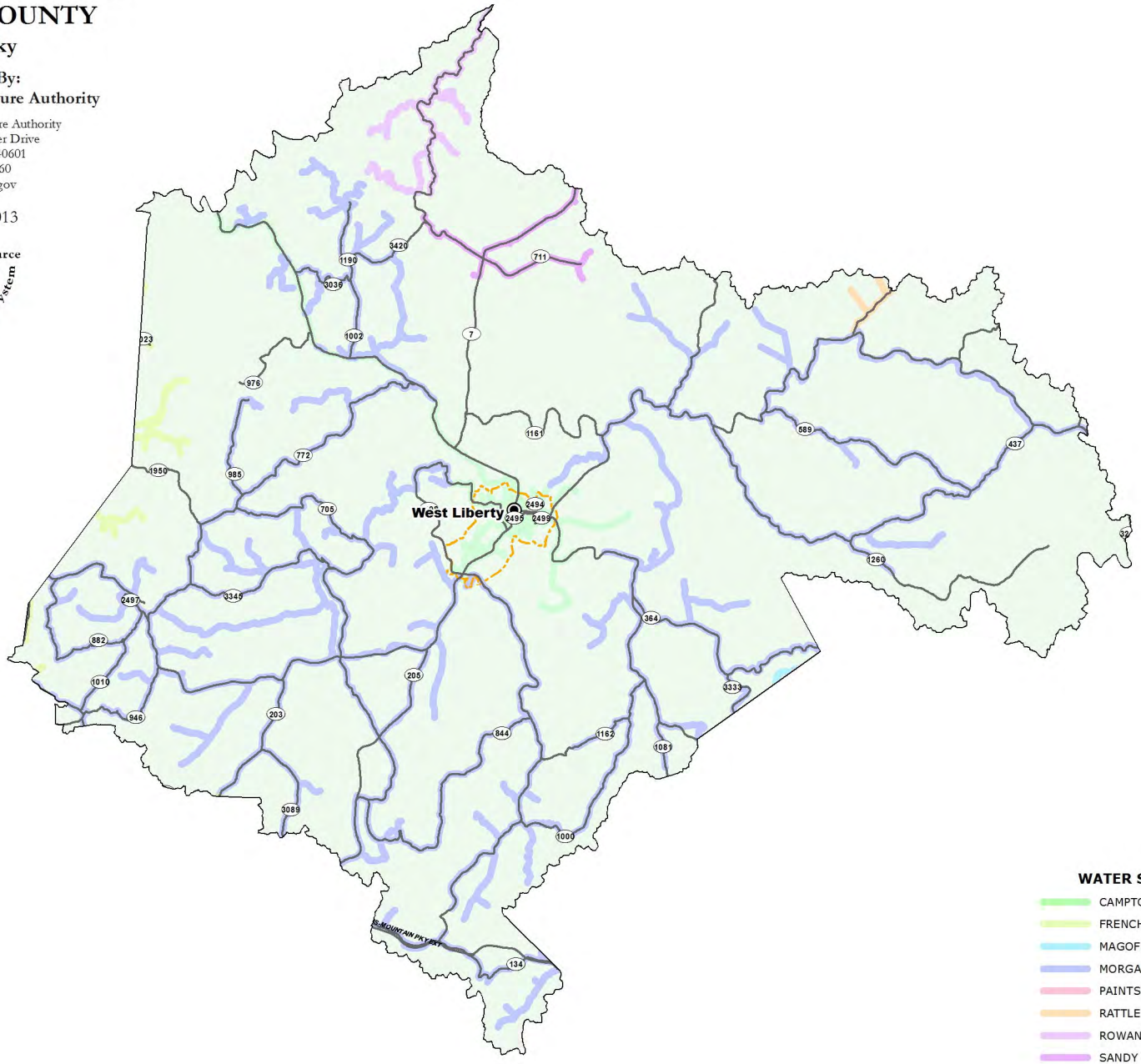
WATER SERVICE AREAS
MORGAN COUNTY
Kentucky

Prepared By:
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January, 2013

Water Resource Information System



System Summary for Morgan County Water District

PWSID	KY0880594	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	7	Wholesale Purchaser	Yes, from 3 providers.
Non-Municipal Cost	$37.75 per 4,000 gallons.	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 7 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	2,610
Residential Customers	2,503	Total Produced (MG)	-
Commercial Customers	105	Total Purchased (MG)	182.194
Institutional Customers	-	Total Inside Usage (MG)	108.456
Industrial Customers	-	Total Wholesale Sold (MG)	0.032
Wholesale Customers	2	Estimated Pct. Water Loss	40%
Total Distribution System Line Length = 330.30 miles (Distribution: 324.86 miles, Transmission: 5.44 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Morgan County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21165023	System Improvement Project	0-2 Years	Not Funded	$700,000	Menifee	1	1
WX21175022	City of West Liberty Highway 519 Water Storage Tank Improvement Project	3-5 Years	Not Funded	$209,600	Morgan	7	1
WX21175023	City of West Liberty Johnson Hill Storage Tank Rehabilitation	3-5 Years	Not Funded	$170,600	Morgan	8	2
WX21175013	Morgan County District Water Tank Rehab Project	3-5 Years	Not Funded	$200,000	Morgan	15	3
WX21165010	Cave Run Water Commission Storage Building Project	3-5 Years	Not Funded	$25,000	Menifee	55	4
WX21175020	Morgan County Water District Equipment Project	3-5 Years	Not Funded	$100,000	Morgan	61	7

System Summary for West Liberty Water Works

PWSID	KY0880452	Treats Water	Yes, 1 plant with total capacity of 2.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	7	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$34.49 per 4,000 gallons.	Storage Capacity	Yes, 4 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	$57.84 per 4,000 gallons.	Total Connections	815
Residential Customers	648	Total Produced (MG)	313.790
Commercial Customers	124	Total Purchased (MG)	-
Institutional Customers	39	Total Inside Usage (MG)	155.000
Industrial Customers	3	Total Wholesale Sold (MG)	111.832
Wholesale Customers	1	Estimated Pct. Water Loss	15%
Total Distribution System Line Length = 50.10 miles (Distribution: 30.00 miles, Transmission: 20.10 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for West Liberty Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21175022	City of West Liberty Highway 519 Water Storage Tank Improvement Project	3-5 Years	Not Funded	$209,600	Morgan	7	1
WX21175023	City of West Liberty Johnson Hill Storage Tank Rehabilitation	3-5 Years	Not Funded	$170,600	Morgan	8	2
WX21175021	City of West Liberty Davis Lane Waterline Replacement Project	3-5 Years	Not Funded	$135,700	Morgan	19	4
WX21175030	City of West Liberty Broadway, Main, and Prestonburg Streets Line Replacement Project	3-5 Years	Not Funded	$300,000	Morgan	21	5
WX21175009	City of West Liberty McClain Way Increase Pressure Project	3-5 Years	Not Funded	$75,000	Morgan	22	6

Rowan County

- 2010 census population of 23,333 (10,102 households) with 98% serviceable.
- Projected 2020 population of 24,708 (change of 1,375).
- Rowan County has 446.99 miles of existing water lines.
- There are no line extensions proposed in the next 10 years.
- 4.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $2,950,000.
- Estimated funding needs for projects from 6 to 10 years: $950,000.



Rowan County has a 2010 census population count of 23,333 (10,102 households) with a projected 2020 population count of 24,708 (9,546 households). Public water is currently available to approximately 98 percent of the county's households based on 2010 census counts. Over the next ten years approximately 59,028 instances of improved service through the rehabilitation of 4.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Morehead Utility Plant Board	8	$3,050,000	-	50,916	-	4.00	-
Rowan Water Inc	2	$850,000	-	8,112	-	-	-
Totals:	**10**	**$3,900,000**	**-**	**59,028**	**-**	**4.00**	**-**

Community Drinking Water Systems in Rowan County

Note: Serviceability counts are for households within Rowan county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY1030480	Morehead State University	Rowan	1,693	180
KY1030292	Morehead Utility Plant Board	Rowan	7,899	3,528
KY1030375	Rowan Water, Inc	Rowan	13,285	6,171
KY0060022	Bath County Water District	Bath	35	17
		Totals:	22,912	9,896

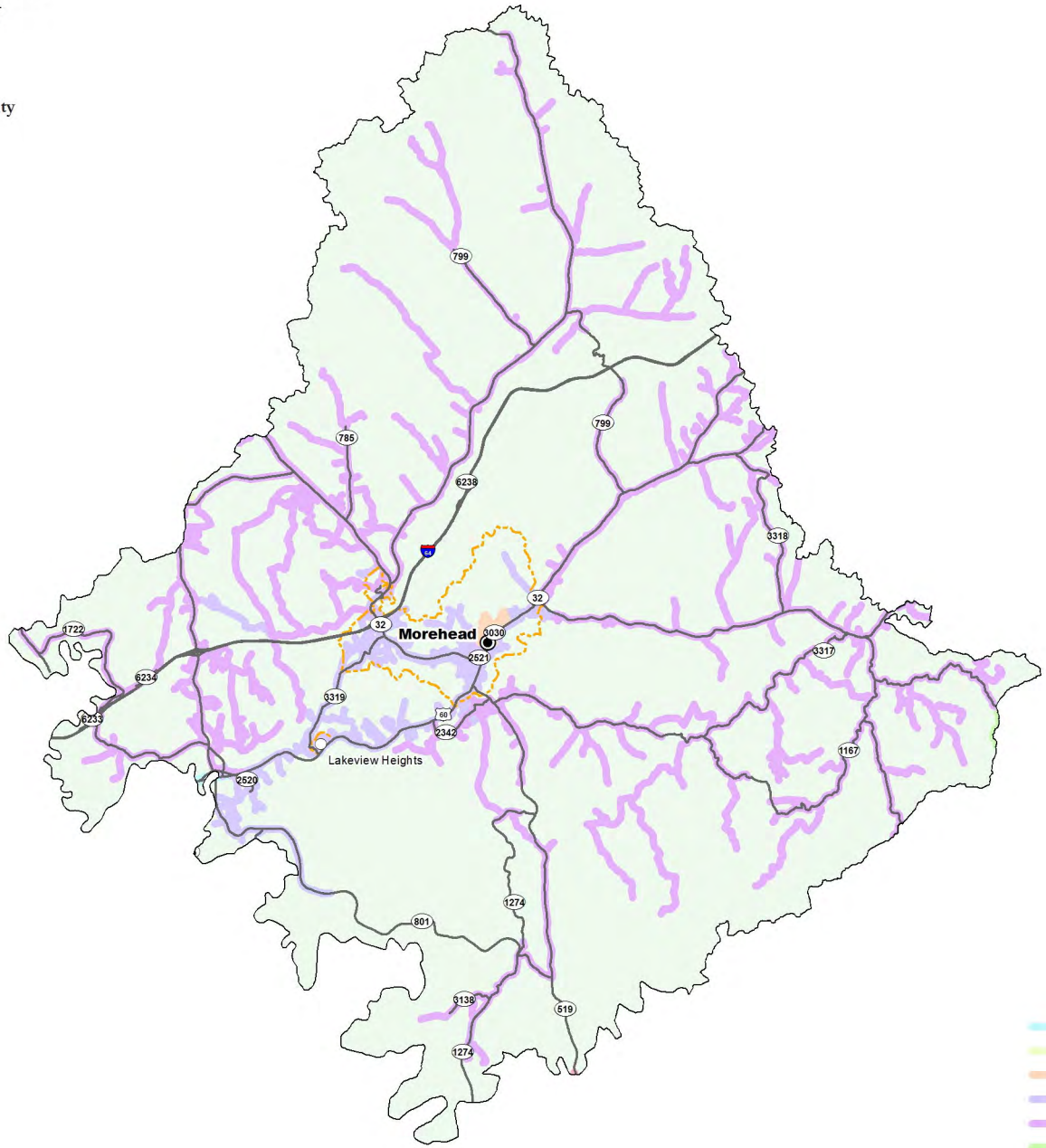
WATER SERVICE AREAS
ROWAN COUNTY
Kentucky

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January, 2013

Water Resource Information System



System Summary for Morehead State University

PWSID	KY1030480	Treats Water	Yes, 1 plant with total capacity of 1.300 MGD.
System Type	Community	Surface Source	Yes, 2 sources.
Owner Type	Private Non-Profit	Groundwater Source	No
Employees	14	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	1
Residential Customers	6,500	Total Produced (MG)	134.290
Commercial Customers	-	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	114.075
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	1	Estimated Pct. Water Loss	15%
Total Distribution System Line Length = 5.96 miles (Distribution: 5.06 miles, Transmission: 0.89 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Morehead State University

System Summary for Morehead Utility Plant Board

PWSID	KY1030292	Treats Water	Yes, 1 plant with total capacity of 8.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Municipal Utility Board or Commission	Groundwater Source	No
Employees	40	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	-	Wholesale Provider	Yes, to 3 purchasers.
Inside Mun. Cost	$21.58 per 4,000 gallons.	Storage Capacity	Yes, 8 tanks with total capacity of 4.000 MG.
Outside Mun. Cost	$25.88 per 4,000 gallons.	Total Connections	3,356
Residential Customers	2,740	Total Produced (MG)	1,796.061
Commercial Customers	607	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	585.616
Industrial Customers	6	Total Wholesale Sold (MG)	955.196
Wholesale Customers	3	Estimated Pct. Water Loss	14%

Total Distribution System Line Length = 93.49 miles (Distribution: 92.45 miles, Transmission: 1.04 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Morehead Utility Plant Board

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21205047	Morehead Utility Plant Board Water Treatment Plant Rehabilitation	0-2 Years	Not Funded	$320,440	Rowan	3	1
WX21205045	Morehead Utility Plant Board MMRC Water Tank Rehabilitation	0-2 Years	Not Funded	$320,440	Rowan	4	2
WX21205027	Morehead Utility Plant Board Paint US 60 Water Tank Project	0-2 Years	Not Funded	$256,920	Rowan	5	3
WX21205028	Morehead Utility Plant Board Guardian Pump Station Rehabilitation	0-2 Years	Not Funded	$102,200	Rowan	9	4
WX21205041	Morehead Utility Plant Board Water Treatment Plant Improvement Project	3-5 Years	Not Funded	$200,000	Rowan	10	5
WX21205039	Morehead Utility Plant Board 500,000 Gallon Water Tank Project	6-10 Years	Not Funded	$800,000	Rowan	11	6
WX21205035	Morehead Utility Plant Board 801 South Waterline Rehab Project	3-5 Years	Not Funded	$900,000	Rowan	14	7
WX21205034	Morehead Utility Plant Board Waterline Rehab Project	6-10 Years	Not Funded	$150,000	Rowan	49	10

System Summary for Rowan Water, Inc

PWSID	KY1030375	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water Association	Groundwater Source	No
Employees	10	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$31.40 per 4,000 gallons.	Wholesale Provider	Yes, to 4 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 11 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	6,834
Residential Customers	6,730	Total Produced (MG)	-
Commercial Customers	100	Total Purchased (MG)	604.416
Institutional Customers	-	Total Inside Usage (MG)	486.500
Industrial Customers	-	Total Wholesale Sold (MG)	9.338
Wholesale Customers	4	Estimated Pct. Water Loss	18%

Total Distribution System Line Length = 447.13 miles (Distribution: 446.97 miles, Transmission: 0.15 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Rowan Water, Inc

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21205047	Morehead Utility Plant Board Water Treatment Plant Rehabilitation	0-2 Years	Not Funded	$320,440	Rowan	3	1
WX21205043	Rowan Water Inc. Water Tank Rehab Project	3-5 Years	Not Funded	$600,000	Rowan	16	8
WX21205029	Rowan Water Inc. Tank Rehab and Meter Pit Project	0-2 Years	Not Funded	$250,000	Rowan	29	9

Kentuckiana Regional Planning and Development Agency (KIPDA)



- 2010 census population of 959,091 (421,502 households) with 98% serviceable.
- Projected 2020 population of 1,058,343 (change of 99,252).
- 6,284.94 miles of existing water lines.
- 156.00 miles of line extensions proposed in the next 10 years.
- 50.00 miles of line rehabilitation proposed in the next 10 years.
- 91.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $228,329,795.
- Estimated funding needs for projects from 6 to 10 years: $37,193,754.
- Average age of structures: water treatment plants is 19 years; water tanks is 33 years.
- Total number of interconnected systems is 15.
- 188 miles of asbestos concrete pipe currently in use.
- 48 miles of water lines less than 15 years old.
- 126 miles of water lines between 15 and 30 years old.
- 1,095 miles of water lines between 31 and 50 years old.
- 413 miles of water lines between 51 and 70 years old.
- 411 miles of water lines greater than 70 years old.

Kentuckiana Regional Planning and Development Agency has a 2010 census population count of 959,091 (421,502 households) with a projected 2020 population count of 1,058,343 (437,016 households). Public water is currently available to approximately 98 percent of the district's households based on 2010 census counts. Over the next ten years approximately 96,418 serviceable households will be added through the construction of 156.00 miles of water line extensions and approximately 61,938 instances of improved service through the rehabilitation of 50.00 miles of existing water lines and other appurtenances. 91.00 miles of transmission lines are also proposed within this district.

County Summary for Kentuckiana Regional Planning and Development Agency

County Name	2010 Population	2010 Households	2020 Population	2020 Households	Serviceable Households	Percent Serviceable	Planned Cost 0 to 10 Years
Bullitt	74,319	29,318	88,508	34,970	28,123	96%	$ 21,624,800
Henry	15,416	6,640	15,915	6,405	6,327	95%	$ 9,517,855
Jefferson	741,096	337,616	793,817	336,744	334,993	99%	$ 124,318,808
Oldham	60,316	20,688	74,990	26,354	17,914	87%	$ 17,960,750
Shelby	42,074	16,606	51,944	19,663	16,201	98%	$ 80,165,064
Spencer	17,061	6,704	23,655	9,025	6,268	94%	$ 2,534,172
Trimble	8,809	3,930	9,514	3,855	3,629	92%	$ 9,402,100
Totals	**959,091**	**421,502**	**1,058,343**	**437,016**	**413,455**	**98%**	**$ 265,523,549**

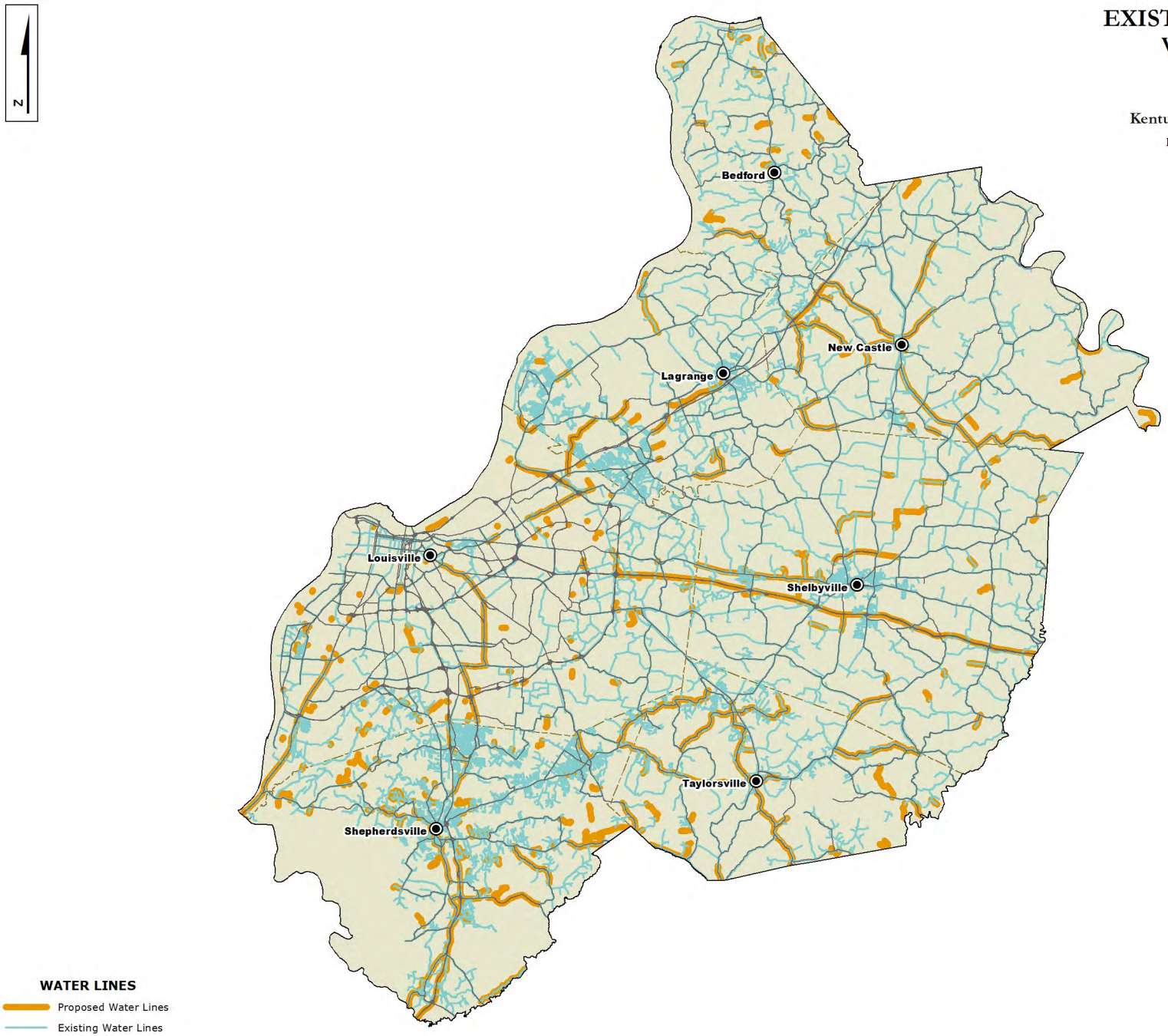
EXISTING & PROPOSED WATER LINES

KIPDA

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January, 2013



Water Resource Information System

Community Water Systems in Kentuckiana Regional Planning and Development Agency County

Note: Serviceable counts include households outside the area development district.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0150242	Lebanon Junction Water Works	Bullitt	2,202	937
KY0150300	Mount Washington Water & Sewer Company	Bullitt	19,320	7,681
KY0520122	Eminence Water Works	Henry	2,525	1,091
KY0520192	Henry County Water District #2	Henry	14,546	6,111
KY0520520	New Castle Water Works	Henry	930	428
KY0560258	Louisville Water Company	Jefferson	806,903	362,013
KY0930481	Lagrange Utilities Commission	Oldham	6,796	2,692
KY0930333	Oldham County Water District	Oldham	19,840	5,829
KY1060324	North Shelby Water Company	Shelby	10,899	4,359
KY1060394	Shelbyville Municipal Water & Sewer Commission	Shelby	22,037	8,922
KY1060436	US 60 Water District	Shelby	4,726	1,978
KY1060457	West Shelby Water District	Shelby	5,112	1,970
KY1080425	Taylorsville Water Works	Spencer	18,716	7,316
KY1120289	Milton Water & Sewer Department	Trimble	2,366	1,131
KY1120431	Trimble County Water District #1	Trimble	3,541	1,530
		Totals:	940,459	413,988

Kentuckiana Regional Planning and Development Agency
Regional Water Needs Assessment

Primary Need: **Repair and Replace Existing Infrastructure**
Secondary Need: **Extend Services to Unserved Areas**

Discussion of Area Development District Needs:

The KIPDA Regional Water Council through discussion recognizes that planning needs in the region are constantly changing. What may be viewed as the primary need in the near future could differ from what is viewed as the primary need in the present. All of the listed options are viewed as necessities throughout the region and many are viewed to be intertwined with none being mutually exclusive. With these thoughts in consideration, the KIPDA Regional Water Management Council identified the Repair and Replacement of Existing Infrastructure as its primary planning need which may require Increased Storage Capacity and Regionalization leading to Economic Stimulation.

Much of the current infrastructure in the KIPDA region is aging with many lines approaching 100 years. This causes problems for systems throughout the region in the form of breaks and leaks which lead to substantial water loss. Many of these lines are undersized and not capable of providing fire protection or adequate flow and pressure. Providing redundancy to the existing system is also placed in high priority which can be achieved by adding pipes and Increased Storage Capacity. The Council has placed a high priority on projects that set out to achieve these goals. Additionally, Regionalization is a driving force to provide an alternative water source in times of emergency and to meet future demands. The top priority project in the KIPDA Region is the I-64 Transmission Main which would provide an alternative water source for utilities in Shelby County through a pipeline to Jefferson County and Louisville Water Company. This project would additionally provide for Increased Storage Capacity within the county.

Realizing that capabilities must be in place to drive commercial, industrial, and residential development, the Repair and Replacement of Existing Infrastructure would additionally provide for Economic Stimulation. With a few exceptions, utilities upgrade existing infrastructure when it is replaced. The increased capabilities from these upgrades enables systems to meet demands and provide improved services to areas that may be currently underserved. Through increasing line sizes, water treatment capacity, and storage; cities and counties are much more attractive for future development. The Council realizes that for there to be Economic Stimulation, the infrastructure must be in place.

When the KIPDA Regional Water Management Council was originally formed, providing service to unserved areas was the goal with the initiative of all unserved areas having access to potable drinking water by 2020. Much effort has been provided to accomplish this goal, and systems in the region estimate that better than 97% of residents in the region are either being served or have access to public water. The Council recognizes that the provision of water service is still of high priority due to it's impact on public health, for this reason Extending Service to Unserved areas was consider the Secondary Need of the region. Elected officials and water providers throughout the KIPDA Region continue to work with residents of their communities to identify areas in need of potable water and work in conjunction to develop projects in order to provide this service. Projects that provide water to currently unserved areas take precedence over similarly scored projects during the annual priority ranking process.

Description and Determination of Planning Units:

After reviewing water systems and their respected service areas, the KIPDA Regional Water Management Council designated the KIPDA boundary to be used as the regional management area. Further, the Council designated the seven (7) water management areas in the KIPDA region to be defined by county boundaries.

1. Bullitt County Water Management Planning Area
   - Lebanon Junction, City of
   - Mount Washington Water and Sewer Company

2. Henry County Water Management Planning Area
- Eminence , City of
- Henry County Water District #2
- New Castle, City of

3. Jefferson County Water Management Planning Area
- Louisville Water Company

4. Oldham County Water Management Planning Area
- Oldham County Water District
- LaGrange Utilities Commission

5. Shelby County Water Management Planning Area
- North Shelby Water Company
- Shelbyville Municipal Water and Sewer Commission
- U.S. 60 Water District
- West Shelby Water District

6. Spencer County Water Management Planning Area
- Taylorsville, City of

7. Trimble County Water Management Planning Area
- Milton, City of
- Trimble County Water District #1

Kentuckiana Regional Planning and Development Agency
Project Ranking Methodology

he KIPDA Regional Water Management Council prioritizes projects using local input and an established priority ranking scoresheet.

Before projects are brought before the KIPDA Regional Water Management Council to be prioritized, they are ranked at the County level. The County Water Management Councils consist of utility representatives and local elected officials. Projects are ranked based on perceived importance within the county.

To bring continuity and fairness throughout the region, the KIPDA Regional Water Management Council requires all projects that are to be considered for Regional Prioritization to complete a Priority Ranking Scoresheet. The methodology for the scoresheet was established in 2007 by a group of Area Development Water Management Coordinators along with KIA staff. This is no longer required for all water and wastewater projects requesting State funding, but the KIPDA Council choice to continue using this method due to past success.

The scoresheet provides for a maximum of 100 points to be assigned to each project depending on how it scores according to the following criteria:

Type of Project (20 point Maximum)

For unserved and underserved projects, households served are the basis for the priority scoring while jobs created are the consideration for economic development projects. Feasibility studies and other projects that don't involve unserved, underserved, commercial, or industrial development are assigned a specified score.

Project Delivery (20 point Maximum)

Projects are scored on whether they are Regional or Non-Regional. For this purpose, regional is defined as projects involving two or more systems that, through shared or consolidated resources, improve services to consumers and achieve economy of scale.

Project Status (20 point Maximum)

Projects are scored based on their status relative to the planning process, the status of the development of engineering plans and specifications, and the detail of the data used to develop the estimated cost of the project. Projects that are further along in the process will receive a higher priority score.

Funding Status (20 point Maximum)

The projects are categorized based on their status relative its size and the funding needed to execute. Projects that are further along in the funding process will receive a higher priority as indicated below.

Local Importance (20 point Maximum)

The projects are assigned priority points based on their importance to the county as determined by consensus during the County Water Management Councils.

With the intention of each county having equal representation on the priority ranking list, the top projects from each county are ranked against each other according to their priority ranking score. This method is continued for the second, third, fourth, etc projects until all submitted projects receive a ranking.

Project Rankings For Kentuckiana Regional Planning and Development Agency

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21185013	Halls Hill Road Extension	3-5 Years	Not Funded	$300,000	Oldham	1	1
WX21223004	Tilley Lane Ext.	3-5 Years	Not Funded	$125,000	Trimble	2	1
WX21111164	Hardin County/FT Knox Transmission	3-5 Years	Partially Funded	$19,492,000	Jefferson	3	1
WX21029280	Halls Lane Water Main Extension	3-5 Years	Not Funded	$262,000	Bullitt	4	1
WX21215003	Kings Church Road/Dales Lane SR 1319	0-2 Years	Not Funded	$525,000	Spencer	5	1
WX21103052	City of New Castle - East College St. Water Line Replacement	3-5 Years	Not Funded	$89,000	Henry	6	1
WX21211084	US 60 Transmission Main	0-2 Years	Not Funded	$2,326,000	Shelby	7	1
WX21211068	I-64 Transmission Pipeline - Phase II	0-2 Years	Partially Funded	$6,000,000	Shelby	8	2
WX21223031	Barebone Rd Waterline Extension	3-5 Years	Not Funded	$50,000	Trimble	9	2
WX21111168	North Shelby Regional Storage	3-5 Years	Not Funded	$2,500,000	Jefferson	10	2
WX21185030	Storage Tank US 42 and Liberty Lane	0-2 Years	Partially Funded	$2,200,000	Oldham	11	2
WX21103054	Elm Street Water Main Extension	6-10 Years	Not Funded	$159,826	Henry	12	2
WX21215005	Bloomfield Road – South SR 55 Upgrade	6-10 Years	Not Funded	$220,000	Spencer	13	2
WX21029166	Roe Hill Road	6-10 Years	Not Funded	$192,500	Bullitt	14	2
WX21211080	I-64 Transmission Pipeline - Phase III	0-2 Years	Not Funded	$5,200,000	Shelby	15	3
WX21111163	Water Main Rehabilitation	3-5 Years	Partially Funded	$7,455,001	Jefferson	16	3
WX21185017	South Highway 1694 Extension	3-5 Years	Not Funded	$390,000	Oldham	17	3
WX21223010	S. Spillman Lane Ext.	6-10 Years	Not Funded	$70,000	Trimble	18	3
WX21029282	Water Main - Kings Hollow Road	3-5 Years	Not Funded	$288,000	Bullitt	19	3
WX21215006	Bloomfield Road North SR 55 - Upgrade	3-5 Years	Not Funded	$85,000	Spencer	20	3
WX21103048	City of New Castle - College St Water Line Replacement	3-5 Years	Not Funded	$104,000	Henry	21	3
WX21211071	Shelbyville Downtown Water Tank	0-2 Years	Partially Funded	$1,947,000	Shelby	22	4
WX21185050	18-inch water main connecting Buckner Crossing with Quality Place	6-10 Years	Not Funded	$1,600,000	Oldham	23	4
WX21215002	Mill Road Upgrade SR 1795	6-10 Years	Not Funded	$330,000	Spencer	24	4
WX21111161	Crittenden Drive, 5018 to 7800 Block	3-5 Years	Not Funded	$700,000	Jefferson	25	4
WX21223028	Watson Lane Waterline Extension	6-10 Years	Not Funded	$100,000	Trimble	26	4
WX21029208	Derby - Walnut - Bank Street Upgrades	3-5 Years	Not Funded	$79,200	Bullitt	27	4
WX21029288	Preston Hwy from Collings Hill Rd to Rolling Fork Transmission M	3-5 Years	Not Funded	$6,781,000	Bullitt	28	5
WX21223034	Rowlett Lane Waterline Replacement	0-2 Years	Not Funded	$20,000	Trimble	29	5
WX21103058	Eminence, KY Water Storage Tower Rehabilitation	0-2 Years	Not Funded	$250,000	Henry	30	4
WX21111169	English Station Storage	3-5 Years	Not Funded	$10,700,000	Jefferson	31	5
WX21215007	Normandy Road – Upgrade	3-5 Years	Not Funded	$225,000	Spencer	32	5
WX21103057	Turkey Run Waterline	3-5 Years	Not Funded	$190,229	Henry	33	5
WX21111172	Vernetta Way Water Main Extension	3-5 Years	Partially Funded	$210,000	Jefferson	34	6

Project Rankings For Kentuckiana Regional Planning and Development Agency

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21029289	Salt River Booster Pump Station	3-5 Years	Not Funded	$1,300,000	Bullitt	35	6
WX21223035	Sunnyside Dr Waterline Replacement	0-2 Years	Not Funded	$30,000	Trimble	36	6
WX21215014	Goose Creek Loop Line	3-5 Years	Not Funded	$90,000	Spencer	37	6
WX21111173	Buttermilk Ridge Rd Main Extension	3-5 Years	Partially Funded	$165,000	Jefferson	38	7
WX21029287	Preston Hwy from Chapeze Rd to Beech Grove Rd Transmission Main	3-5 Years	Not Funded	$1,062,000	Bullitt	39	7
WX21223033	Milton-Bedford Pike Waterline Extension	3-5 Years	Not Funded	$150,000	Trimble	40	7
WX21215008	Town Hill Road – Upgrade	3-5 Years	Not Funded	$80,000	Spencer	41	7
WX21111186	Harrod's Old Trace Main Extension	6-10 Years	Partially Funded	$362,000	Jefferson	42	8
WX21029283	Beech Grove Booster Pump Station	3-5 Years	Not Funded	$800,000	Bullitt	43	8
WX21223032	Cutshaw Lane Upgrade	3-5 Years	Not Funded	$200,000	Trimble	44	8
WX21215009	Southville Pike – SR 44 Upgrade	3-5 Years	Not Funded	$375,000	Spencer	45	8
WX21029285	Cedar Grove Transmission Main	3-5 Years	Not Funded	$228,000	Bullitt	46	9
WX21223029	Lower Middle Creek Waterline Extension	6-10 Years	Not Funded	$300,000	Trimble	47	9
WX21215011	Plum Ridge Road Upgrade	6-10 Years	Not Funded	$170,000	Spencer	48	9
WX21029284	Cedar Grove Booster Pump Station Improvements	3-5 Years	Not Funded	$200,000	Bullitt	49	10
WX21223021	Trimble Area Optimization Plan	6-10 Years	Not Funded	$2,000,000	Trimble	50	10
WX21215004	Elk Creek/Wilsonville Road Upgrade	6-10 Years	Not Funded	$145,000	Spencer	51	10
WX21029286	Preston Hwy from Belmont Rd to Timber Ridge Ct Transmission Main	3-5 Years	Not Funded	$926,000	Bullitt	52	11
WX21029290	New Water Tower at Armstrong Lane	0-2 Years	Unknown	$0	Bullitt	53	12
WX21029241	Ramblin Road Water Main Extension	3-5 Years	Not Funded	$86,000	Bullitt	54	13
			Total Cost:	**$79,834,756**			

Bullitt County

- 2010 census population of 74,319 (29,318 households) with 96% serviceable.
- Projected 2020 population of 88,508 (change of 14,189).
- Bullitt County has 688.27 miles of existing water lines.
- 26.00 miles of line extensions proposed in the next 10 years.
- 6.00 miles of line rehabilitation proposed in the next 10 years.
- 8.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $14,641,900.
- Estimated funding needs for projects from 6 to 10 years: $6,982,900.



Bullitt County has a 2010 census population count of 74,319 (29,318 households) with a projected 2020 population count of 88,508 (34,970 households). Public water is currently available to approximately 96 percent of the county's households based on 2010 census counts. Over the next ten years approximately 149 serviceable households will be added through the construction of 26.00 miles of water line extensions and approximately 10,340 instances of improved service through the rehabilitation of 6.00 miles of existing water lines and other appurtenances. 8.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Lebanon Junction	1	$79,200	-	30	-	2.00	-
City of Mount Washington	4	$1,199,450	20	7,000	8.00	-	-
City of Taylorsville	1	$525,000	-	160	-	4.00	-
Louisville Water Company	36	$19,821,150	129	3,150	18.00	-	8.00
Totals:	**42**	**$21,624,800**	**149**	**10,340**	**26.00**	**6.00**	**8.00**

Community Drinking Water Systems in Bullitt County

Note: Serviceability counts are for households within Bullitt county only.

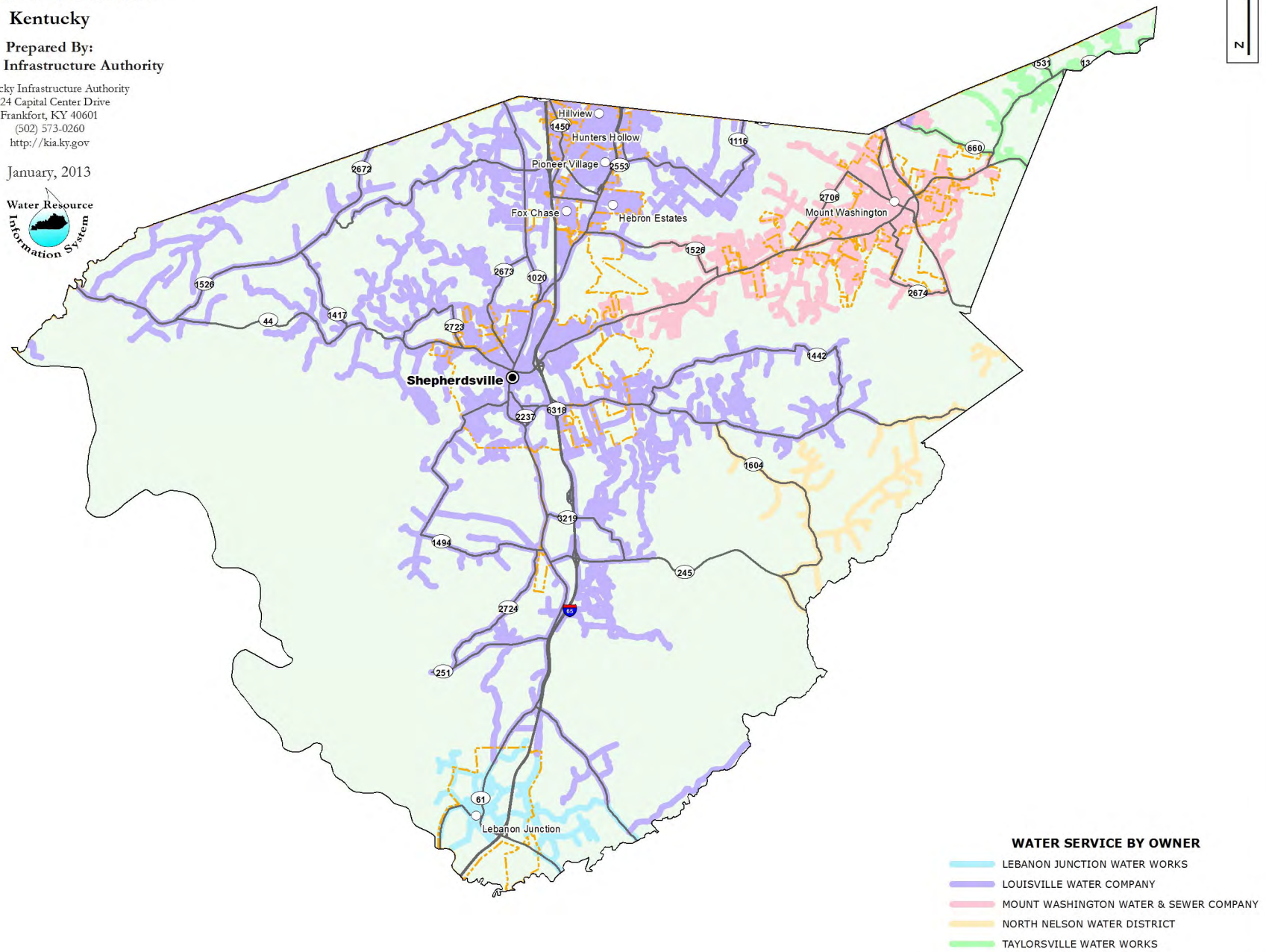
PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0150242	Lebanon Junction Water Works	Bullitt	2,180	926
KY0150300	Mount Washington Water & Sewer Company	Bullitt	19,269	7,663
KY0560258	Louisville Water Company	Jefferson	46,240	18,163
KY0900323	North Nelson Water District	Nelson	1,564	626
KY1080425	Taylorsville Water Works	Spencer	2,006	745
		Totals:	71,259	28,123

WATER SERVICE AREAS
BULLITT COUNTY
Kentucky

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January, 2013



System Summary for Lebanon Junction Water Works

PWSID	KY0150242	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	4	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$31.80 per 4,000 gallons.	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$31.80 per 4,000 gallons.	Total Connections	916
Residential Customers	886	Total Produced (MG)	-
Commercial Customers	30	Total Purchased (MG)	113.000
Institutional Customers	-	Total Inside Usage (MG)	69.451
Industrial Customers	1	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	39%
Total Distribution System Line Length = 43.00 miles (Distribution: 31.64 miles, Transmission: 11.37 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Lebanon Junction Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21029208	Derby - Walnut - Bank Street Upgrades	3-5 Years	Not Funded	$79,200	Bullitt	27	4

System Summary for Mount Washington Water & Sewer Company

PWSID	KY0150300	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	8	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$25.83 per 4,000 gallons.	Storage Capacity	Yes, 4 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	$30.05 per 4,000 gallons.	Total Connections	8,700
Residential Customers	9,124	Total Produced (MG)	-
Commercial Customers	668	Total Purchased (MG)	665.020
Institutional Customers	-	Total Inside Usage (MG)	571.740
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	14%

Total Distribution System Line Length = 162.20 miles (Distribution: 118.71 miles, Transmission: 43.49 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Mount Washington Water & Sewer Company

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21029280	Halls Lane Water Main Extension	3-5 Years	Not Funded	$262,000	Bullitt	4	1
WX21029241	Ramblin Road Water Main Extension	3-5 Years	Not Funded	$86,000	Bullitt	54	13
WX21029230	Mt. Washington Water Booster Pump and Transmission Mains	0-2 Years	Not Funded	$764,000	Bullitt		
WX21029242	Flatlick Road Water Main Extension Phase I	3-5 Years	Not Funded	$87,450	Bullitt		

Henry County

- 2010 census population of 15,416 (6,640 households) with 95% serviceable.
- Projected 2020 population of 15,915 (change of 499).
- Henry County has 415.61 miles of existing water lines.
- 34.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- 17.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $6,425,529.
- Estimated funding needs for projects from 6 to 10 years: $3,092,326.



Henry County has a 2010 census population count of 15,416 (6,640 households) with a projected 2020 population count of 15,915 (6,405 households). Public water is currently available to approximately 95 percent of the county's households based on 2010 census counts. Over the next ten years approximately 32 serviceable households will be added through the construction of 34.00 miles of water line extensions and approximately 20,783 instances of improved service through system wide upgrades. 17.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Eminence	4	$836,126	3	13,613	1.00	-	-
City of New Castle	3	$301,000	-	1,600	-	-	-
Henry County Water District #2	13	$6,990,500	19	5,570	20.00	-	15.00
North Shelby Water Company	1	$1,200,000	6	-	13.00	-	-
West Carroll Water District	1	$190,229	4	-	-	-	2.00
Totals:	**22**	**$9,517,855**	**32**	**20,783**	**34.00**	**-**	**17.00**

Community Drinking Water Systems in Henry County

Note: Serviceability counts are for households within Henry county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0520122	Eminence Water Works	Henry	2,525	1,091
KY0520192	Henry County Water District #2	Henry	11,266	4,789
KY0520520	New Castle Water Works	Henry	930	428
KY1060324	North Shelby Water Company	Shelby	26	13
		Totals:	14,747	6,321

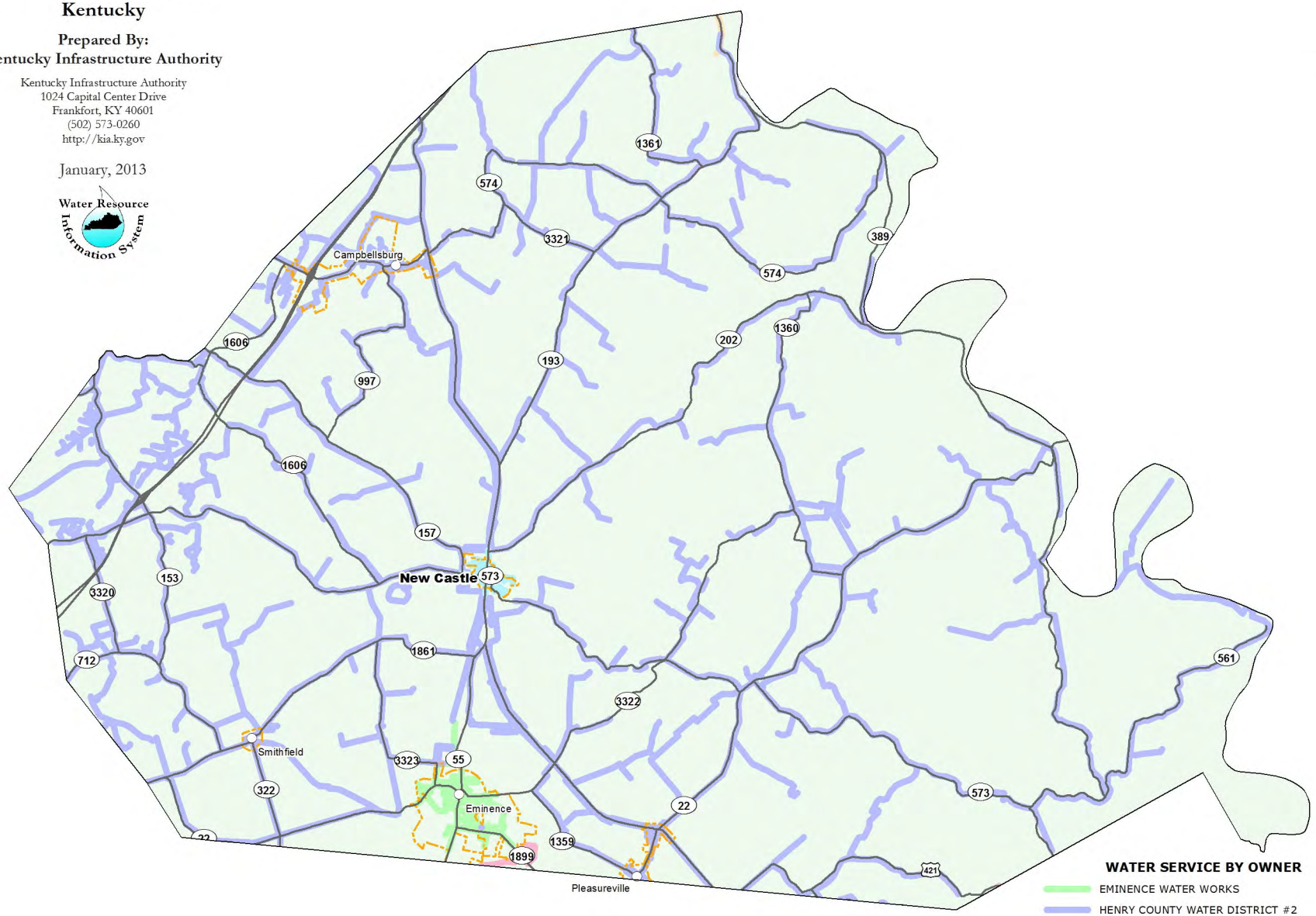
WATER SERVICE AREAS
HENRY COUNTY
Kentucky

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Water Resource Information System



System Summary for Eminence Water Works

PWSID	KY0520122	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	6	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$30.86 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	$30.86 per 4,000 gallons.	Total Connections	964
Residential Customers	855	Total Produced (MG)	-
Commercial Customers	80	Total Purchased (MG)	63.309
Institutional Customers	-	Total Inside Usage (MG)	62.631
Industrial Customers	3	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	1%
Total Distribution System Line Length = 19.84 miles (Distribution: 19.47 miles, Transmission: 0.37 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Eminence Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21103054	Elm Street Water Main Extension	6-10 Years	Not Funded	$159,826	Henry	12	2
WX21103058	Eminence, KY Water Storage Tower Rehabilitation	0-2 Years	Not Funded	$250,000	Henry	30	4
WX21103002	Eminence Water Tank	3-5 Years	Not Funded	$350,000	Henry		
WX21103056	Shawnee Water Line Extension	3-5 Years	Not Funded	$76,300	Henry		

System Summary for Henry County Water District #2

PWSID	KY0520192	Treats Water	Yes, 1 plant with total capacity of 4.000 MGD.
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	Yes, 6 sources.
Employees	17	Wholesale Purchaser	No
Non-Municipal Cost	$35.61 per 4,000 gallons.	Wholesale Provider	Yes, to 3 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 12 tanks with total capacity of 4.000 MG.
Outside Mun. Cost	-	Total Connections	6,347
Residential Customers	6,157	Total Produced (MG)	700.280
Commercial Customers	155	Total Purchased (MG)	-
Institutional Customers	28	Total Inside Usage (MG)	504.894
Industrial Customers	3	Total Wholesale Sold (MG)	87.584
Wholesale Customers	3	Estimated Pct. Water Loss	15%
Total Distribution System Line Length = 497.00 miles (Distribution: 470.77 miles, Transmission: 26.23 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Henry County Water District #2

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21103051	Water Treatment Plant Upgrade	3-5 Years	Not Funded	$5,500,000	Henry		
WX21103038	KY 157 Main Upgrade	3-5 Years	Not Funded	$2,080,000	Henry		
WX21103008	KY 153 Upgrade	6-10 Years	Not Funded	$1,175,000	Henry		
WX21103014	Fallen Timber - New Castle	6-10 Years	Not Funded	$975,000	Henry		
WX21103010	KY 146 Upgrade	6-10 Years	Not Funded	$782,500	Henry		
WX21103011	Sulphur Transmission Main	3-5 Years	Not Funded	$546,000	Henry		
WX21103013	Kentucky River Loop	3-5 Years	Not Funded	$480,000	Henry		
WX21103015	Smithfield Loop	3-5 Years	Not Funded	$459,500	Henry		
WX21103045	Martini Lane to Webb Lane Upgrade	3-5 Years	Not Funded	$300,000	Henry		
WX21103046	Sweeney Lane	3-5 Years	Not Funded	$135,000	Henry		
WX21103012	Dawkins Lane - Hwy 146 & Kavanaugh Lane to Hwy. 1606	3-5 Years	Not Funded	$134,500	Henry		
WX21103033	Albert Moore Road Extension.	3-5 Years	Not Funded	$80,000	Henry		
WX21103036	Byers Lane Extension	3-5 Years	Not Funded	$53,000	Henry		
WX21103043	Bunk Ellis Road	3-5 Years	Not Funded	$50,000	Henry		
WX21103018	Radcliff Road to Hwy 712	3-5 Years	Not Funded	$48,000	Henry		
WX21103019	KY 1359 Loop	3-5 Years	Not Funded	$42,000	Henry		

System Summary for New Castle Water Works

PWSID	KY0520520	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	3	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$43.93 per 4,000 gallons.	Storage Capacity	No
Outside Mun. Cost	$43.93 per 4,000 gallons.	Total Connections	475
Residential Customers	435	Total Produced (MG)	-
Commercial Customers	45	Total Purchased (MG)	24.275
Institutional Customers	-	Total Inside Usage (MG)	22.234
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	8%

Total Distribution System Line Length = 6.08 miles (Distribution: 5.53 miles, Transmission: 0.56 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for New Castle Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21103052	City of New Castle - East College St. Water Line Replacement	3-5 Years	Not Funded	$89,000	Henry	6	1
WX21103048	City of New Castle - College St Water Line Replacement	3-5 Years	Not Funded	$104,000	Henry	21	3
WX21103050	City of New Castle - Water System Improvements Project	3-5 Years	Not Funded	$108,000	Henry		

Jefferson County

- 2010 census population of 741,096 (337,616 households) with 99% serviceable.
- Projected 2020 population of 793,817 (change of 52,721).
- Jefferson County has 3,494.03 miles of existing water lines.
- 33.00 miles of line extensions proposed in the next 10 years.
- 6.00 miles of line rehabilitation proposed in the next 10 years.
- 12.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $110,730,048.
- Estimated funding needs for projects from 6 to 10 years: $13,588,760.



Jefferson County has a 2010 census population count of 741,096 (337,616 households) with a projected 2020 population count of 793,817 (336,744 households). Public water is currently available to approximately 99 percent of the county's households based on 2010 census counts. Over the next ten years approximately 96,024 serviceable households will be added through the construction of 33.00 miles of water line extensions and approximately 611 instances of improved service through the rehabilitation of 6.00 miles of existing water lines and other appurtenances. 12.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Louisville Water Company	57	$105,775,608	96,024	611	33.00	6.00	12.00
West Shelby Water District	1	$18,543,200	-	-	-	-	-
Totals:	**58**	**$124,318,808**	**96,024**	**611**	**33.00**	**6.00**	**12.00**

Community Drinking Water Systems in Jefferson County

Note: Serviceability counts are for households within Jefferson county only.

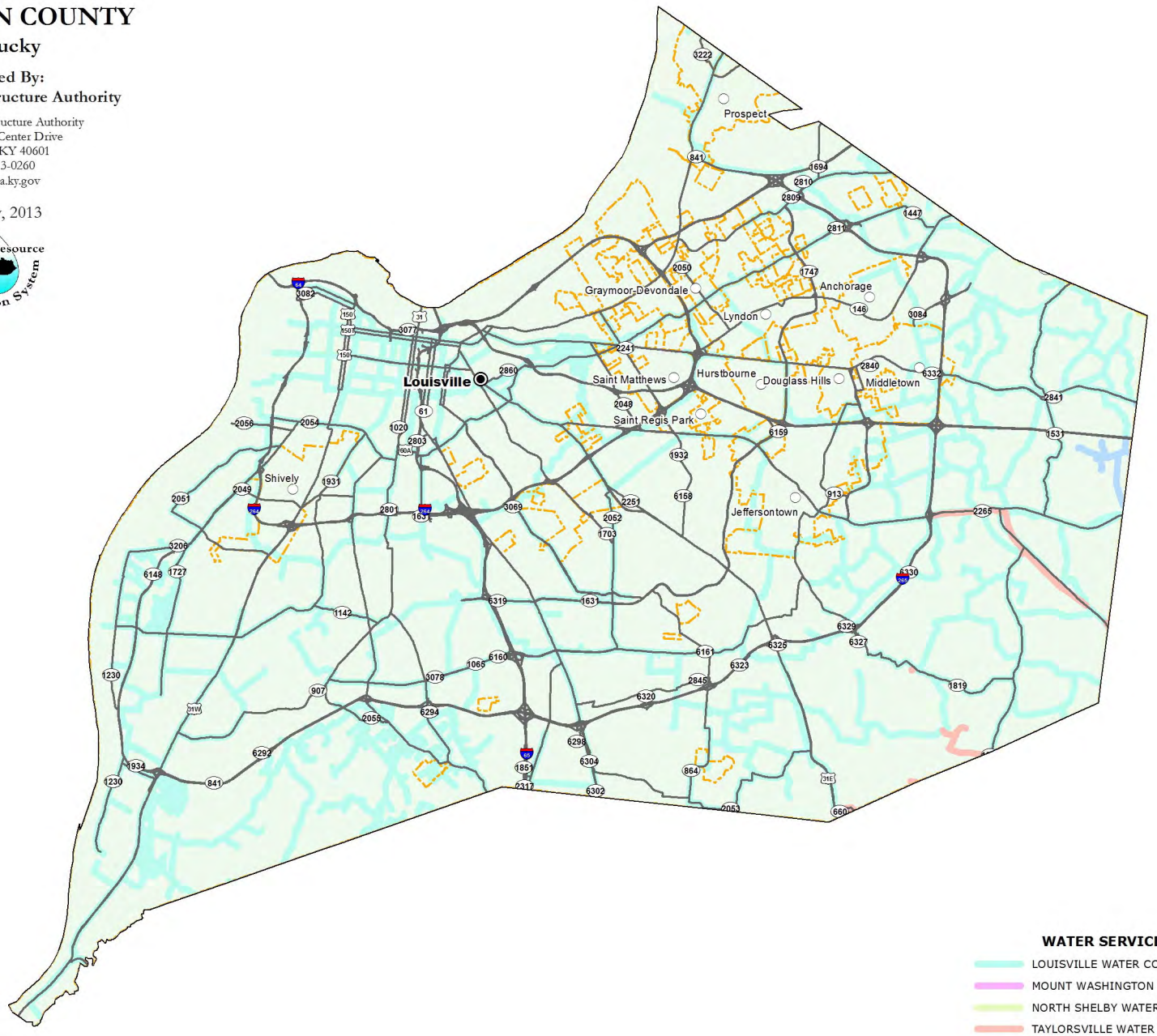
PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0560258	Louisville Water Company	Jefferson	735,361	334,675
KY0150300	Mount Washington Water & Sewer Company	Bullitt	51	18
KY1060324	North Shelby Water Company	Shelby	41	15
KY1060457	West Shelby Water District	Shelby	245	98
KY1080425	Taylorsville Water Works	Spencer	457	187
		Totals:	736,155	334,993

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Kentucky

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January, 2013



System Summary for Louisville Water Company

PWSID	KY0560258	Treats Water	Yes, 2 plants with total capacity of 240.000 MGD.
System Type	Community	Surface Source	Yes, 2 sources.
Owner Type	Municipal Utility Board or Commission	Groundwater Source	No
Employees	415	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 6 purchasers.
Inside Mun. Cost	$18.85 per 4,000 gallons.	Storage Capacity	No
Outside Mun. Cost	$18.85 per 4,000 gallons.	Total Connections	284,301
Residential Customers	243,258	Total Produced (MG)	42,500.000
Commercial Customers	22,526	Total Purchased (MG)	-
Institutional Customers	637	Total Inside Usage (MG)	31,637.030
Industrial Customers	329	Total Wholesale Sold (MG)	1,830.239
Wholesale Customers	6	Estimated Pct. Water Loss	21%

Total Distribution System Line Length = 4,120.01 miles (Distribution: 4,120.01 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Louisville Water Company

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21185013	Halls Hill Road Extension	3-5 Years	Not Funded	$300,000	Oldham	1	1
WX21111164	Hardin County/FT Knox Transmission	3-5 Years	Partially Funded	$19,492,000	Jefferson	3	1
WX21211068	I-64 Transmission Pipeline - Phase II	0-2 Years	Partially Funded	$6,000,000	Shelby	8	2
WX21111168	North Shelby Regional Storage	3-5 Years	Not Funded	$2,500,000	Jefferson	10	2
WX21029166	Roe Hill Road	6-10 Years	Not Funded	$192,500	Bullitt	14	2
WX21211080	I-64 Transmission Pipeline - Phase III	0-2 Years	Not Funded	$5,200,000	Shelby	15	3
WX21111163	Water Main Rehabilitation	3-5 Years	Partially Funded	$7,455,001	Jefferson	16	3
WX21185017	South Highway 1694 Extension	3-5 Years	Not Funded	$390,000	Oldham	17	3
WX21029282	Water Main - Kings Hollow Road	3-5 Years	Not Funded	$288,000	Bullitt	19	3
WX21111161	Crittenden Drive, 5018 to 7800 Block	3-5 Years	Not Funded	$700,000	Jefferson	25	4
WX21029288	Preston Hwy from Collings Hill Rd to Rolling Fork Transmission M	3-5 Years	Not Funded	$6,781,000	Bullitt	28	5
WX21111169	English Station Storage	3-5 Years	Not Funded	$10,700,000	Jefferson	31	5
WX21111172	Vernetta Way Water Main Extension	3-5 Years	Partially Funded	$210,000	Jefferson	34	6
WX21029289	Salt River Booster Pump Station	3-5 Years	Not Funded	$1,300,000	Bullitt	35	6
WX21111173	Buttermilk Ridge Rd Main Extension	3-5 Years	Partially Funded	$165,000	Jefferson	38	7
WX21029287	Preston Hwy from Chapeze Rd to Beech Grove Rd Transmission Main	3-5 Years	Not Funded	$1,062,000	Bullitt	39	7
WX21111186	Harrod's Old Trace Main Extension	6-10 Years	Partially Funded	$362,000	Jefferson	42	8
WX21029283	Beech Grove Booster Pump Station	3-5 Years	Not Funded	$800,000	Bullitt	43	8

Oldham County

- 2010 census population of 60,316 (20,688 households) with 87% serviceable.
- Projected 2020 population of 74,990 (change of 14,674).
- Oldham County has 443.70 miles of existing water lines.
- 14.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $11,034,750.
- Estimated funding needs for projects from 6 to 10 years: $6,926,000.



Oldham County has a 2010 census population count of 60,316 (20,688 households) with a projected 2020 population count of 74,990 (26,354 households). Public water is currently available to approximately 87 percent of the county's households based on 2010 census counts. Over the next ten years approximately 82 serviceable households will be added through the construction of 14.00 miles of water line extensions and approximately 8,110 instances of improved service through system wide upgrades.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Louisville Water Company	12	$10,936,750	70	-	10.00	-	-
Oldham County Water District	7	$7,024,000	12	8,110	4.00	-	-
Totals:	**19**	**$17,960,750**	**82**	**8,110**	**14.00**	**-**	**-**

Community Drinking Water Systems in Oldham County

Note: Serviceability counts are for households within Oldham county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0930481	Lagrange Utilities Commission	Oldham	6,796	2,692
KY0930333	Oldham County Water District	Oldham	19,836	5,828
KY0520192	Henry County Water District #2	Henry	606	226
KY0560258	Louisville Water Company	Jefferson	25,272	9,163
		Totals:	52,510	17,909

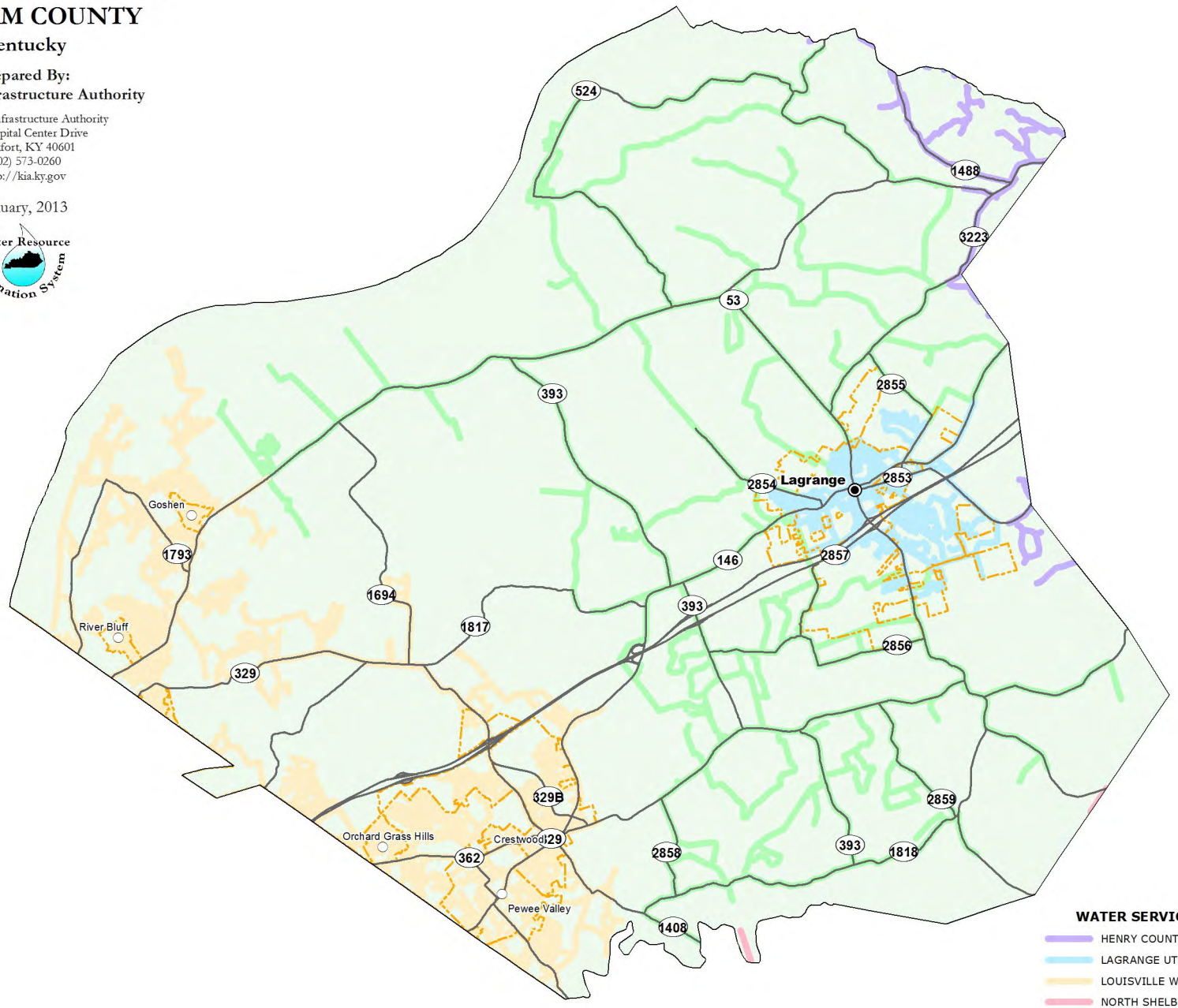
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January, 2013

Water Resource Information System



System Summary for Lagrange Utilities Commission

PWSID	KY0930481	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Municipal Utility Board or Commission	Groundwater Source	No
Employees	10	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$18.84 per 4,000 gallons.	Storage Capacity	Yes, 3 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	$23.56 per 4,000 gallons.	Total Connections	3,395
Residential Customers	2,991	Total Produced (MG)	-
Commercial Customers	337	Total Purchased (MG)	354.070
Institutional Customers	-	Total Inside Usage (MG)	265.161
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	25%
Total Distribution System Line Length = 59.84 miles (Distribution: 42.96 miles, Transmission: 16.87 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Lagrange Utilities Commission

System Summary for Oldham County Water District

PWSID	KY0930333	Treats Water	Yes, 1 plant with total capacity of 5.000 MGD.
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	Yes, 12 sources.
Employees	14	Wholesale Purchaser	No
Non-Municipal Cost	$24.35 per 4,000 gallons.	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 11 tanks with total capacity of 4.000 MG.
Outside Mun. Cost	-	Total Connections	7,750
Residential Customers	7,384	Total Produced (MG)	1,337.361
Commercial Customers	346	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	925.828
Industrial Customers	-	Total Wholesale Sold (MG)	354.070
Wholesale Customers	1	Estimated Pct. Water Loss	4%
Total Distribution System Line Length = 168.40 miles (Distribution: 166.14 miles, Transmission: 2.26 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Oldham County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21185030	Storage Tank US 42 and Liberty Lane	0-2 Years	Partially Funded	$2,200,000	Oldham	11	2
WX21185050	18-inch water main connecting Buckner Crossing with Quality Place	6-10 Years	Not Funded	$1,600,000	Oldham	23	4
WX21185032	Larger Main, Hwy 393 to Buckeye Lane	3-5 Years	Not Funded	$1,050,000	Oldham		
WX21185010	Westport Well Field Acquisition	3-5 Years	Not Funded	$1,000,000	Oldham		
WX21185002	North West Service Area Water Tank	6-10 Years	Not Funded	$766,000	Oldham		
WX21185006	Oldham Co. Water District Wells Installation	3-5 Years	Not Funded	$750,000	Oldham		
WX21185033	Water Main Along Hwy 53 South to the Shelby County Line	3-5 Years	Not Funded	$358,000	Oldham		
WX21185049	OCWD 20-Year Master Plan	3-5 Years	Not Funded	$50,000	Oldham		

Shelby County

- 2010 census population of 42,074 (16,606 households) with 98% serviceable.
- Projected 2020 population of 51,944 (change of 9,870).
- Shelby County has 637.60 miles of existing water lines.
- 17.00 miles of line extensions proposed in the next 10 years.
- 3.00 miles of line rehabilitation proposed in the next 10 years.
- 53.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $77,070,064.
- Estimated funding needs for projects from 6 to 10 years: $3,095,000.



Shelby County has a 2010 census population count of 42,074 (16,606 households) with a projected 2020 population count of 51,944 (19,663 households). Public water is currently available to approximately 98 percent of the county's households based on 2010 census counts. Over the next ten years approximately 71 serviceable households will be added through the construction of 17.00 miles of water line extensions and approximately 17,909 instances of improved service through the rehabilitation of 3.00 miles of existing water lines and other appurtenances. 53.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Taylorsville	2	$1,575,000	-	43	-	3.00	-
Henry County Water District #2	1	$50,000	1	-	1.00	-	-
North Shelby Water Company	13	$11,318,769	10	500	12.00	-	12.00
Shelby County Fiscal Court	3	$41,400,000	50	16,500	-	-	22.00
Shelbyville Municipal Water & Sewer Commission	4	$2,247,000	8	10	3.00	-	-
US 60 Water District	4	$3,194,295	2	356	1.00	-	5.00
West Shelby Water District	4	$20,380,000	-	500	-	-	14.00
Totals:	**31**	**$80,165,064**	**71**	**17,909**	**17.00**	**3.00**	**53.00**

Community Drinking Water Systems in Shelby County

Note: Serviceability counts are for households within Shelby county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY1060324	North Shelby Water Company	Shelby	8,537	3,311
KY1060394	Shelbyville Municipal Water & Sewer Commission	Shelby	22,030	8,920
KY1060436	US 60 Water District	Shelby	3,622	1,499
KY1060457	West Shelby Water District	Shelby	4,867	1,872
KY0520192	Henry County Water District #2	Henry	689	287
KY0560258	Louisville Water Company	Jefferson	27	11
KY1080425	Taylorsville Water Works	Spencer	681	292
		Totals:	40,453	16,192

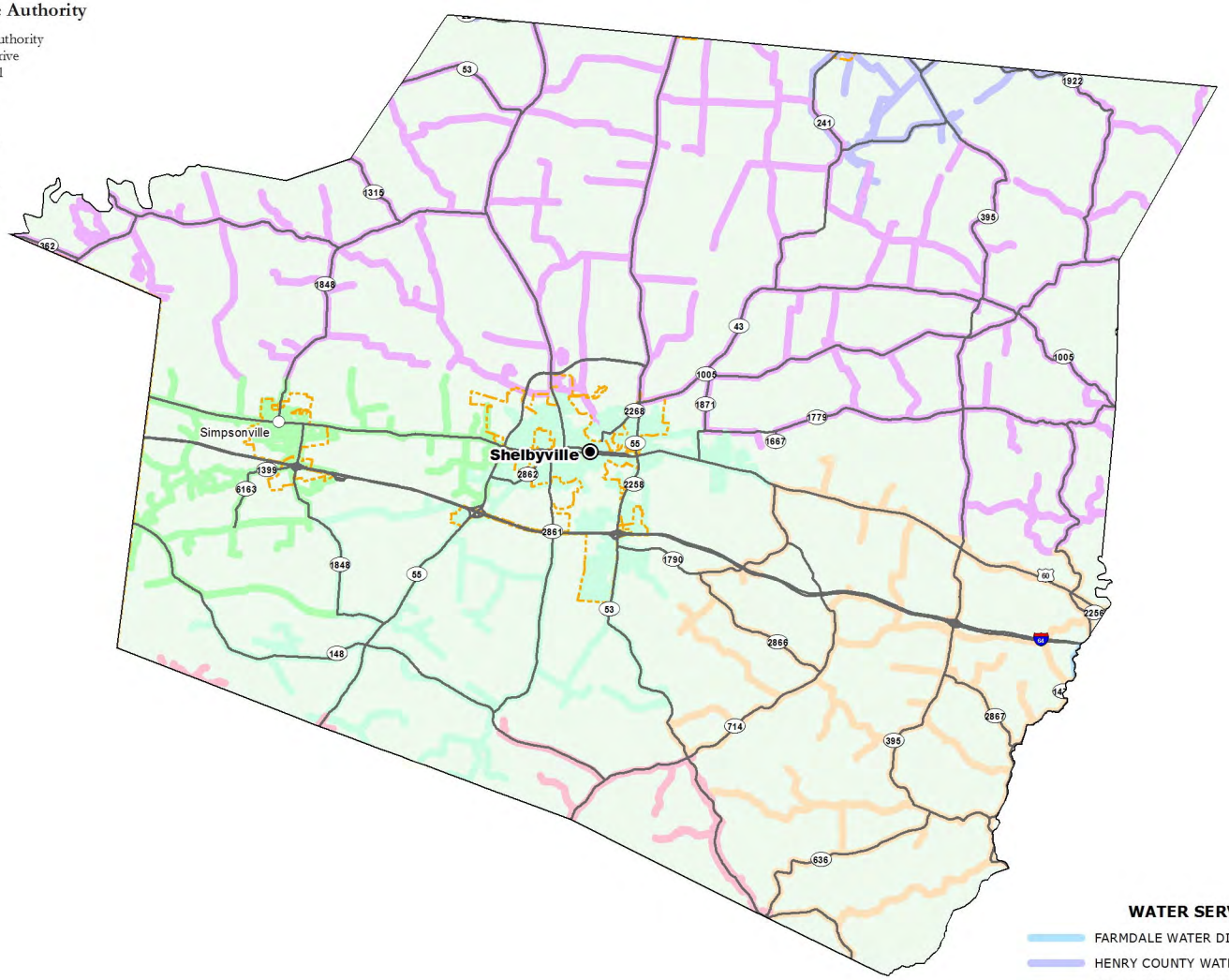
WATER SERVICE AREAS
SHELBY COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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January, 2013

Water Resource Information System



System Summary for North Shelby Water Company

PWSID	KY1060324	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water Association	Groundwater Source	No
Employees	11	Wholesale Purchaser	Yes, from 4 providers.
Non-Municipal Cost	$29.52 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 6 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	4,903
Residential Customers	4,864	Total Produced (MG)	-
Commercial Customers	39	Total Purchased (MG)	438.958
Institutional Customers	-	Total Inside Usage (MG)	366.887
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	16%

Total Distribution System Line Length = 310.46 miles (Distribution: 287.58 miles, Transmission: 22.88 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for North Shelby Water Company

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21211068	I-64 Transmission Pipeline - Phase II	0-2 Years	Partially Funded	$6,000,000	Shelby	8	2
WX21211080	I-64 Transmission Pipeline - Phase III	0-2 Years	Not Funded	$5,200,000	Shelby	15	3
WX21211081	I-64 Transmission Pipeline - Phase IV	0-2 Years	Not Funded	$30,200,000	Shelby		
WX21211082	East-West Connector - Phase 3	0-2 Years	Not Funded	$3,550,000	Shelby		
WX21211083	East West Connector Phase 4	3-5 Years	Not Funded	$2,235,000	Shelby		
WX21211078	North Shelby Bypass Transmission Main	0-2 Years	Not Funded	$1,732,000	Shelby		
WX21211073	Boone Station to Bagdad/East West Connector	3-5 Years	Not Funded	$1,200,000	Shelby		
WX21211042	North Shelby Water Tank	3-5 Years	Not Funded	$1,100,000	Shelby		
WX21211076	North Shelby Pump Station Improvements	0-2 Years	Not Funded	$1,070,000	Shelby		
WX21211053	Bellview Extension/Loop	3-5 Years	Not Funded	$151,399	Shelby		
WX21211038	Busey Extension	3-5 Years	Not Funded	$56,074	Shelby		
WX21211052	Clear Creek to Hwy 43	3-5 Years	Not Funded	$56,074	Shelby		
WX21211044	Catwalk Extension/Loop	3-5 Years	Not Funded	$50,466	Shelby		
WX21211046	Stevewood Extension/Loop	3-5 Years	Not Funded	$39,252	Shelby		
WX21211047	Harley Thompson Extension/Loop	3-5 Years	Not Funded	$39,252	Shelby		
WX21211050	Stony Point Extension/Loop	3-5 Years	Not Funded	$39,252	Shelby		

System Summary for Shelbyville Municipal Water & Sewer Commission

PWSID	KY1060394	Treats Water	Yes, 1 plant with total capacity of 6.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Municipal Utility Board or Commission	Groundwater Source	No
Employees	24	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	$15.85 per 4,000 gallons.	Storage Capacity	Yes, 5 tanks with total capacity of 3.000 MG.
Outside Mun. Cost	$18.25 per 4,000 gallons.	Total Connections	8,296
Residential Customers	7,745	Total Produced (MG)	977.436
Commercial Customers	474	Total Purchased (MG)	-
Institutional Customers	34	Total Inside Usage (MG)	700.858
Industrial Customers	39	Total Wholesale Sold (MG)	77.759
Wholesale Customers	2	Estimated Pct. Water Loss	20%

Total Distribution System Line Length = 184.60 miles (Distribution: 184.60 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Shelbyville Municipal Water & Sewer Commission

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21211068	I-64 Transmission Pipeline - Phase II	0-2 Years	Partially Funded	$6,000,000	Shelby	8	2
WX21211080	I-64 Transmission Pipeline - Phase III	0-2 Years	Not Funded	$5,200,000	Shelby	15	3
WX21211071	Shelbyville Downtown Water Tank	0-2 Years	Partially Funded	$1,947,000	Shelby	22	4
WX21211081	I-64 Transmission Pipeline - Phase IV	0-2 Years	Not Funded	$30,200,000	Shelby		
WX21211073	Boone Station to Bagdad/East West Connector	3-5 Years	Not Funded	$1,200,000	Shelby		
WX21211017	Zaring Mill Road Extension	3-5 Years	Not Funded	$175,000	Shelby		
WX21211016	Parallel Extension - Logan Station Rd.	3-5 Years	Not Funded	$75,000	Shelby		
WX21211019	Tatum Road - Locust Grove Connection	3-5 Years	Not Funded	$50,000	Shelby		

System Summary for US 60 Water District

PWSID	KY1060436	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	11	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$33.79 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 4 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	2,230
Residential Customers	2,369	Total Produced (MG)	-
Commercial Customers	16	Total Purchased (MG)	172.440
Institutional Customers	-	Total Inside Usage (MG)	168.000
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	3%

Total Distribution System Line Length = 143.67 miles (Distribution: 117.20 miles, Transmission: 26.47 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for US 60 Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21211084	US 60 Transmission Main	0-2 Years	Not Funded	$2,326,000	Shelby	7	1
WX21211068	I-64 Transmission Pipeline - Phase II	0-2 Years	Partially Funded	$6,000,000	Shelby	8	2
WX21211080	I-64 Transmission Pipeline - Phase III	0-2 Years	Not Funded	$5,200,000	Shelby	15	3
WX21211081	I-64 Transmission Pipeline - Phase IV	0-2 Years	Not Funded	$30,200,000	Shelby		
WX21211073	Boone Station to Bagdad/East West Connector	3-5 Years	Not Funded	$1,200,000	Shelby		
WX21211054	US 60 Water District Radio Reads	6-10 Years	Not Funded	$770,000	Shelby		
WX21211061	Grubbs Lane	6-10 Years	Not Funded	$90,000	Shelby		
WX21215058	Hwy 248 Extension	3-5 Years	Not Funded	$84,480	Spencer		
WX21073014	KY 151 Loop	0-2 Years	Not Funded	$75,000	Franklin		
WX21073015	KY151 Loop - US 60 Water District	0-2 Years	Not Funded	$75,000	Franklin		
WX21215057	Fred Bauer Road Extension	3-5 Years	Not Funded	$12,672	Spencer		
WX21211028	Ritter Road Extension	3-5 Years	Not Funded	$8,295	Shelby		

System Summary for West Shelby Water District

PWSID	KY1060457	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	5	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	$25.96 per 4,000 gallons.	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 3 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	1,945
Residential Customers	1,769	Total Produced (MG)	-
Commercial Customers	123	Total Purchased (MG)	265.456
Institutional Customers	12	Total Inside Usage (MG)	217.317
Industrial Customers	20	Total Wholesale Sold (MG)	-
Wholesale Customers	1	Estimated Pct. Water Loss	18%

Total Distribution System Line Length = 79.88 miles (Distribution: 79.88 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for West Shelby Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21211068	I-64 Transmission Pipeline - Phase II	0-2 Years	Partially Funded	$6,000,000	Shelby	8	2
WX21211080	I-64 Transmission Pipeline - Phase III	0-2 Years	Not Funded	$5,200,000	Shelby	15	3
WX21211081	I-64 Transmission Pipeline - Phase IV	0-2 Years	Not Funded	$30,200,000	Shelby		
WX21211058	Regional Water Main Extension	3-5 Years	Not Funded	$18,543,200	Shelby		
WX21211009	South Storage Tank At I-64	6-10 Years	Not Funded	$1,000,000	Shelby		
WX21211074	Water System Rehabilitation	3-5 Years	Not Funded	$801,800	Shelby		
WX21211012	Timberwoods - Saratoga Connection	6-10 Years	Not Funded	$35,000	Shelby		

Spencer County

- 2010 census population of 17,061 (6,704 households) with 94% serviceable.
- Projected 2020 population of 23,655 (change of 6,594).
- Spencer County has 336.76 miles of existing water lines.
- 20.00 miles of line extensions proposed in the next 10 years.
- 34.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $1,568,904.
- Estimated funding needs for projects from 6 to 10 years: $965,268.



Spencer County has a 2010 census population count of 17,061 (6,704 households) with a projected 2020 population count of 23,655 (9,025 households). Public water is currently available to approximately 94 percent of the county's households based on 2010 census counts. Over the next ten years approximately 14 serviceable households will be added through the construction of 20.00 miles of water line extensions and approximately 937 instances of improved service through the rehabilitation of 34.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Taylorsville	11	$2,036,644	6	887	3.00	34.00	-
North Nelson Water District	2	$365,376	2	50	3.00	-	-
US 60 Water District	2	$97,152	2	-	6.00	-	-
West Shelby Water District	1	$35,000	4	-	8.00	-	-
Totals:	**16**	**$2,534,172**	**14**	**937**	**20.00**	**34.00**	**-**

Community Drinking Water Systems in Spencer County

Note: Serviceability counts are for households within Spencer county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY1080425	Taylorsville Water Works	Spencer	15,527	6,072
KY0900323	North Nelson Water District	Nelson	470	186
		Totals:	15,997	6,258

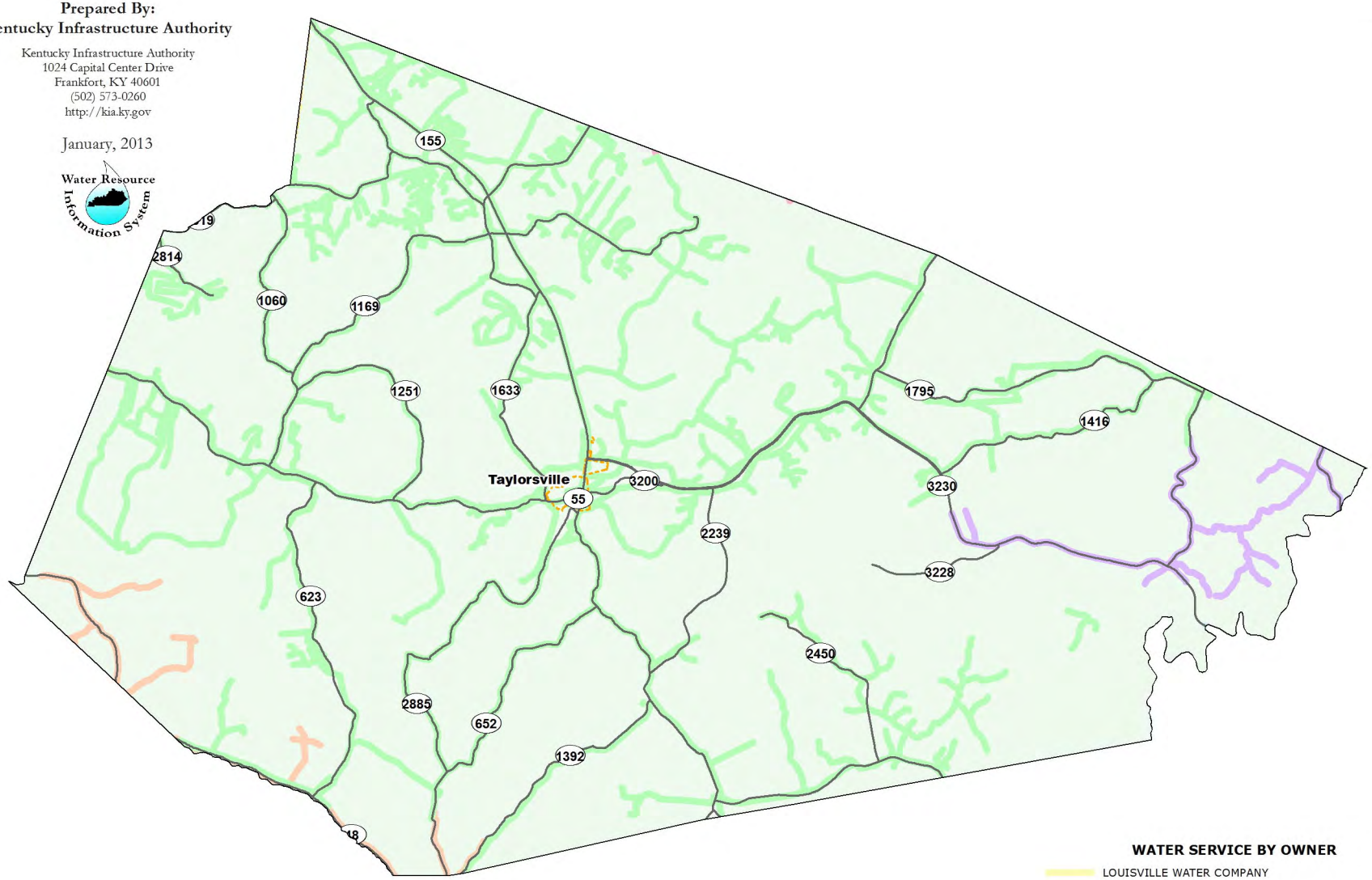
WATER SERVICE AREAS
SPENCER COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

Kentucky Infrastructure Authority
1024 Capital Center Drive
Frankfort, KY 40601
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http://kia.ky.gov

January, 2013

Water Resource Information System



WATER SERVICE BY OWNER

- LOUISVILLE WATER COMPANY
- NORTH NELSON WATER DISTRICT
- SHELBYVILLE MUNICIPAL WATER & SEWER COMMISSION
- SOUTH ANDERSON WATER DISTRICT
- TAYLORSVILLE WATER WORKS
- US 60 WATER DISTRICT

System Summary for Taylorsville Water Works

PWSID	KY1080425	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	15	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$23.68 per 4,000 gallons.	Storage Capacity	Yes, 9 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	$38.41 per 4,000 gallons.	Total Connections	7,257
Residential Customers	6,800	Total Produced (MG)	-
Commercial Customers	457	Total Purchased (MG)	496.573
Institutional Customers	-	Total Inside Usage (MG)	439.300
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	12%

Total Distribution System Line Length = 360.80 miles (Distribution: 357.53 miles, Transmission: 3.27 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Taylorsville Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21215003	Kings Church Road/Dales Lane SR 1319	0-2 Years	Not Funded	$525,000	Spencer	5	1
WX21215005	Bloomfield Road – South SR 55 Upgrade	6-10 Years	Not Funded	$220,000	Spencer	13	2
WX21215006	Bloomfield Road North SR 55 - Upgrade	3-5 Years	Not Funded	$85,000	Spencer	20	3
WX21215002	Mill Road Upgrade SR 1795	6-10 Years	Not Funded	$330,000	Spencer	24	4
WX21215007	Normandy Road – Upgrade	3-5 Years	Not Funded	$225,000	Spencer	32	5
WX21215014	Goose Creek Loop Line	3-5 Years	Not Funded	$90,000	Spencer	37	6
WX21215008	Town Hill Road – Upgrade	3-5 Years	Not Funded	$80,000	Spencer	41	7
WX21215009	Southville Pike – SR 44 Upgrade	3-5 Years	Not Funded	$375,000	Spencer	45	8
WX21215011	Plum Ridge Road Upgrade	6-10 Years	Not Funded	$170,000	Spencer	48	9
WX21215004	Elk Creek/Wilsonville Road Upgrade	6-10 Years	Not Funded	$145,000	Spencer	51	10
WX21215013	Mt. Eden Tank Replacement	6-10 Years	Not Funded	$1,200,000	Spencer		
WX21215043	Overlook Road	3-5 Years	Not Funded	$101,376	Spencer		
WX21215010	Yoder Station Road	6-10 Years	Not Funded	$65,268	Spencer		

Trimble County

- 2010 census population of 8,809 (3,930 households) with 92% serviceable.
- Projected 2020 population of 9,514 (change of 705).
- Trimble County has 268.97 miles of existing water lines.
- 12.00 miles of line extensions proposed in the next 10 years.
- 1.00 miles of line rehabilitation proposed in the next 10 years.
- 1.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $6,858,600.
- Estimated funding needs for projects from 6 to 10 years: $2,543,500.



Trimble County has a 2010 census population count of 8,809 (3,930 households) with a projected 2020 population count of 9,514 (3,855 households). Public water is currently available to approximately 92 percent of the county's households based on 2010 census counts. Over the next ten years approximately 46 serviceable households will be added through the construction of 12.00 miles of water line extensions and approximately 3,248 instances of improved service through the rehabilitation of 1.00 miles of existing water lines and other appurtenances. 1.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Milton	7	$717,800	27	1,265	5.00	-	-
Henry County Water District #2	2	$5,800,000	-	-	1.00	-	-
Trimble County Water District #1	9	$2,865,800	10	1,983	5.00	1.00	1.00
West Carroll Water District	1	$18,500	9	-	1.00	-	-
Totals:	**19**	**$9,402,100**	**46**	**3,248**	**12.00**	**1.00**	**1.00**

Community Drinking Water Systems in Trimble County

Note: Serviceability counts are for households within Trimble county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY1120289	Milton Water & Sewer Department	Trimble	2,360	1,128
KY1120431	Trimble County Water District #1	Trimble	3,541	1,530
KY0210008	West Carroll Water District - Carrollton	Carroll	430	198
KY0520192	Henry County Water District #2	Henry	1,886	772
		Totals:	8,217	3,628

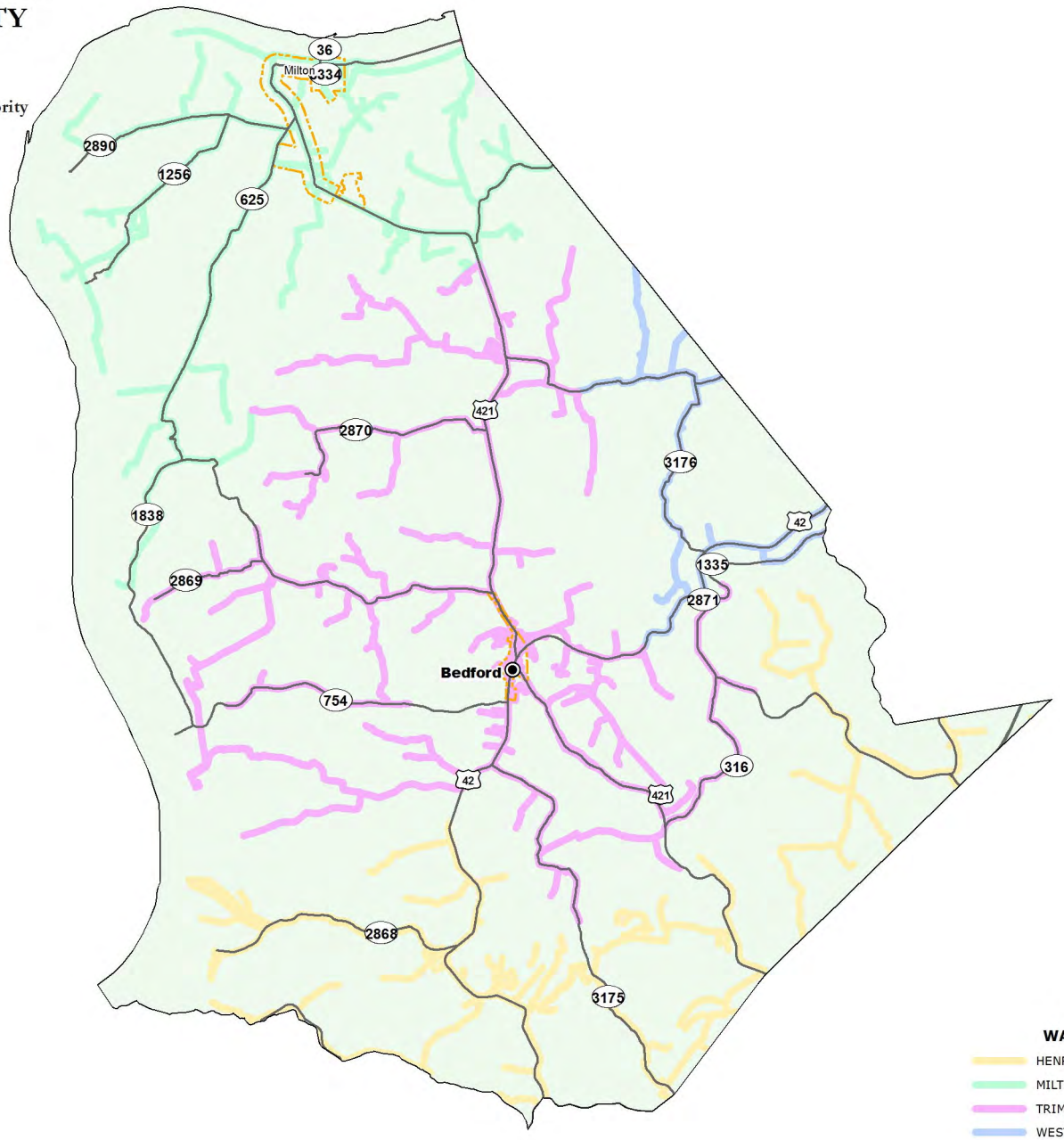
WATER SERVICE AREAS
TRIMBLE COUNTY
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Prepared By:
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January, 2013

Water Resource Information System



WATER SERVICE BY OWNER

- HENRY COUNTY WATER DISTRICT #2
- MILTON WATER & SEWER DEPARTMENT
- TRIMBLE COUNTY WATER DISTRICT #1
- WEST CARROLL WATER DISTRICT - CARROLLTON
- WEST CARROLL WATER DISTRICT - MILTON

System Summary for Milton Water & Sewer Department

PWSID	KY1120289	Treats Water	Yes, 1 plant with total capacity of 0.576 MGD.
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	Yes, 2 sources.
Employees	6	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$33.00 per 4,000 gallons.	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$33.00 per 4,000 gallons.	Total Connections	1,400
Residential Customers	1,350	Total Produced (MG)	99.230
Commercial Customers	30	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	59.669
Industrial Customers	-	Total Wholesale Sold (MG)	1.087
Wholesale Customers	1	Estimated Pct. Water Loss	39%
Total Distribution System Line Length = 73.29 miles (Distribution: 55.73 miles, Transmission: 17.56 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Milton Water & Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21223004	Tilley Lane Ext.	3-5 Years	Not Funded	$125,000	Trimble	2	1
WX21223010	S. Spillman Lane Ext.	6-10 Years	Not Funded	$70,000	Trimble	18	3
WX21223030	Meter Replacement Project	0-2 Years	Partially Funded	$400,000	Trimble		
WX21223022	Highway 625-Mt. Pleasant	6-10 Years	Not Funded	$55,000	Trimble		
WX21223006	Mitchell, Cedar Ridge Rd Ext.	3-5 Years	Not Funded	$26,000	Trimble		
WX21223009	Schoolhouse Rd Ext.	3-5 Years	Not Funded	$22,400	Trimble		
WX21223005	Bob Green Rd Ext.	3-5 Years	Not Funded	$19,400	Trimble		

System Summary for Trimble County Water District #1

PWSID	KY1120431	Treats Water	Yes, 1 plant with total capacity of 1.110 MGD.
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	Yes, 4 sources.
Employees	8	Wholesale Purchaser	No
Non-Municipal Cost	$35.78 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	1,425
Residential Customers	1,287	Total Produced (MG)	111.919
Commercial Customers	195	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	96.707
Industrial Customers	1	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	14%
Total Distribution System Line Length = 111.05 miles (Distribution: 92.75 miles, Transmission: 18.29 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Trimble County Water District #1

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21223028	Watson Lane Waterline Extension	6-10 Years	Not Funded	$100,000	Trimble	26	4
WX21223029	Lower Middle Creek Waterline Extension	6-10 Years	Not Funded	$300,000	Trimble	47	9
WX21223021	Trimble Area Optimization Plan	6-10 Years	Not Funded	$2,000,000	Trimble	50	10
WX21223015	Fairground Rd Ext.	3-5 Years	Not Funded	$15,800	Trimble		

Kentucky River Area Development District (KRADD)

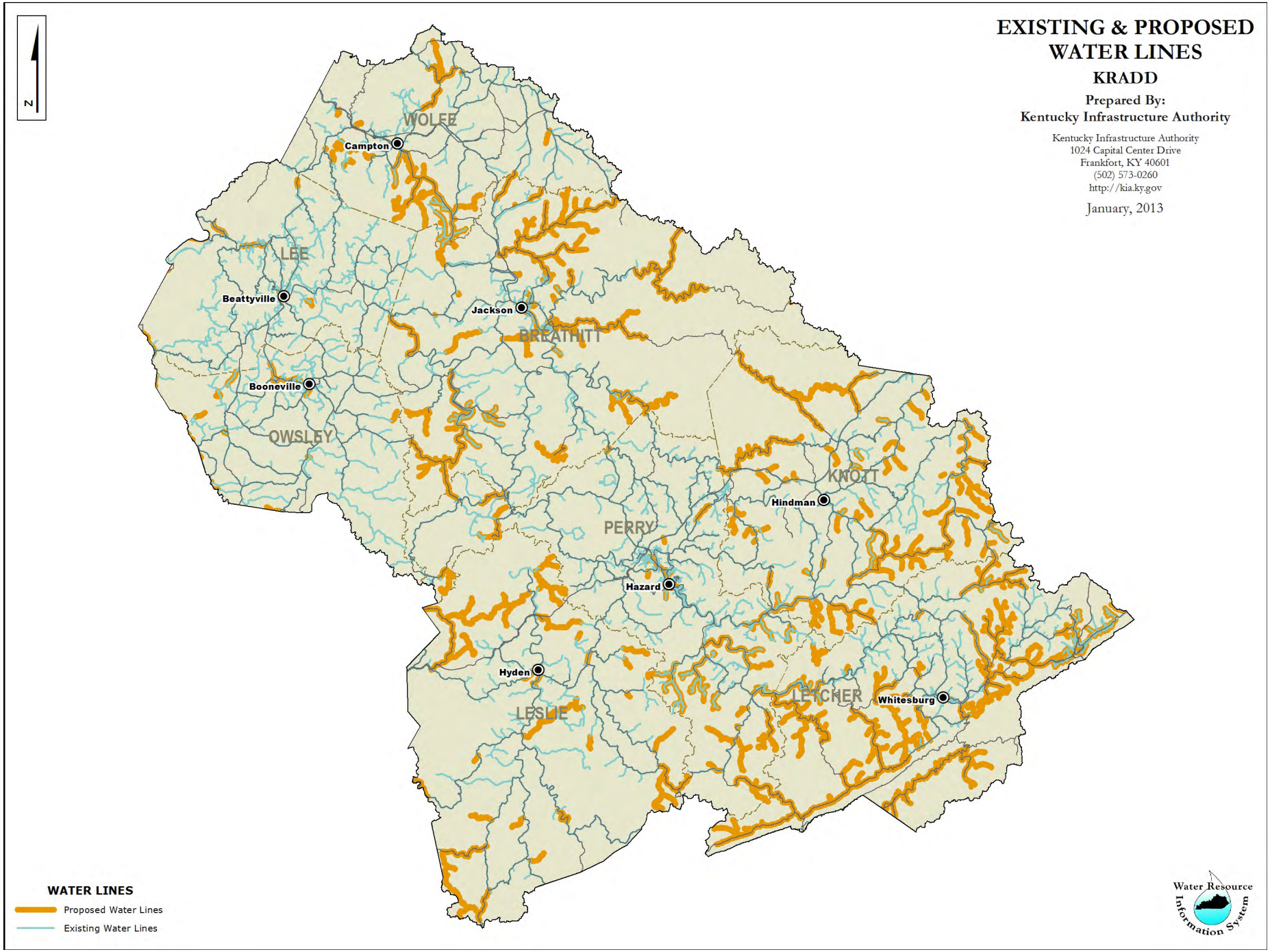


- 2010 census population of 114,762 (52,786 households) with 84% serviceable.
- Projected 2020 population of 111,267 (change of -3,495).
- 2,303.09 miles of existing water lines.
- 324.00 miles of line extensions proposed in the next 10 years.
- 10.00 miles of line rehabilitation proposed in the next 10 years.
- 5.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $93,995,342.
- Estimated funding needs for projects from 6 to 10 years: $8,850,414.
- Average age of structures: water treatment plants is 23 years; water tanks is 16 years.
- Total number of interconnected systems is 13.
- 44 miles of asbestos concrete pipe currently in use.
- 1,156 miles of water lines less than 15 years old.
- 803 miles of water lines between 15 and 30 years old.
- 312 miles of water lines between 31 and 50 years old.
- 8 miles of water lines between 51 and 70 years old.
- 0 miles of water lines greater than 70 years old.

Kentucky River Area Development District has a 2010 census population count of 114,762 (52,786 households) with a projected 2020 population count of 111,267 (45,823 households). Public water is currently available to approximately 84 percent of the district's households based on 2010 census counts. Over the next ten years approximately 3,655 serviceable households will be added through the construction of 324.00 miles of water line extensions and approximately 28,326 instances of improved service through the rehabilitation of 10.00 miles of existing water lines and other appurtenances. 5.00 miles of transmission lines are also proposed within this district.

County Summary for Kentucky River Area Development District

County Name	2010 Population	2010 Households	2020 Population	2020 Households	Serviceable Households	Percent Serviceable	Planned Cost 0 to 10 Years
Breathitt	13,878	6,231	12,495	5,046	5,236	84%	$ 16,019,215
Knott	16,346	7,461	15,635	6,332	6,037	81%	$ 28,207,381
Lee	7,887	3,436	7,820	3,014	3,121	91%	$ 1,354,036
Leslie	11,310	5,278	10,603	4,377	4,291	81%	$ 9,740,000
Letcher	24,519	11,601	24,237	10,161	8,117	70%	$ 29,965,684
Owsley	4,755	2,328	4,704	1,971	2,211	95%	$ 9,134,960
Perry	28,712	12,791	28,137	11,637	11,789	92%	$ 5,417,257
Wolfe	7,355	3,660	7,636	3,285	3,303	90%	$ 3,007,223
Totals	**114,762**	**52,786**	**111,267**	**45,823**	**44,105**	**84%**	**$ 102,845,756**


EXISTING & PROPOSED
WATER LINES
KRADD
Prepared By:
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January, 2013
N
WOLFE
Campton
LEE
Beattyville
Jackson
BREATHITT
Booneville
OWSLEY
KNOTT
Hindman
PERRY
Hazard
Hyden
LESLIE
LETCHER
Whitesburg
WATER LINES
Proposed Water Lines
Existing Water Lines
Water Resource Information System

Community Water Systems in Kentucky River Area Development District County

Note: Serviceable counts include households outside the area development district.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0131012	Breathitt County Water District	Breathitt	6,574	2,920
KY0130208	Jackson Municipal Water Works	Breathitt	4,719	2,172
KY0600198	Hindman Water Department	Knott	3,271	1,566
KY0600062	Knott Co Water & Sewer District	Knott	8,494	3,752
KY0600129	Phoenix Place Water System	Knott	299	136
KY0650024	Beattyville Water Works	Lee	7,289	3,132
KY0660204	Hyden Leslie Co Water District	Leslie	9,245	4,296
KY0670279	Fleming-Neon Water Company	Letcher	3,198	1,587
KY0670213	Jenkins Water System	Letcher	2,786	1,334
KY0670462	Letcher County Water and Sewer District	Letcher	7,991	3,767
KY0670466	Whitesburg Water System	Letcher	3,159	1,461
KY0950036	Booneville Water and Sewer	Owsley	4,755	2,329
KY0970184	Hazard Water Department	Perry	22,973	10,272
KY0970484	Vicco Water Supply	Perry	2,922	1,284
KY0971007	Village of Buckhorn	Perry	944	402
KY1190061	Campton Water System	Wolfe	6,738	3,376
		Totals:	95,357	43,786

Kentucky River Area Development District
Regional Water Needs Assessment

Primary Need: **Extend Services to Unserved Areas**
Secondary Need: **Repair and Replace Existing Infrastructure**

Discussion of Area Development District Needs:

The Kentucky River region's main concerns for water projects are those that address establishing new water service to areas that currently rely on failing or contaminated wells and areas that must haul water. The region is also faced with major rehab as most systems have lines that have been in place for 40+ years as well as rehabilitation of existing plants and in cases where rehab is to expensive then the construction of new plants.

Description and Determination of Planning Units:

The Kentucky River Area Water Management Council reviewed the water systems and their service areas located within the Kentucky River Area Development District. The Council designated the Kentucky River Area Development District boundary as the regional management area. Within the Kentucky River Region, the following water systems and their respective water management planning areas were designated by the Council:

Kentucky River Area Water Management Planning Areas

1. Breathitt County Water Management Planning Area
   a) Breathitt County Water District
   b) Jackson Municipal Water Works
   c) Mount Carmel High Boarding School

2. Knott County Water Management Planning Area
   a) Hindman Water Department
   b) Knott Co. Water and Sewer District
   c) Phoenix Place Water System

3. Lee County Water Management Planning Area
   a) Beattyville Water Works

4. Leslie County Water Management Planning Area
   a) Hyden/Leslie Co Water District

5. Letcher County Water Management Planning Area
   a) Fleming-Neon Water Company
   b) Jenkins Water System
   c) Letcher County Water and Sewer District
   d) Whitesburg Water System

6. Owsley County Water Management Planning Area
   a) Booneville Water and Sewer

7. Perry County Water Management Planning Area
   a) Hazard Water Department
   b) Vicco Water Supply
   c) Village of Buckhorn

8. Wolfe County Water Management Planning Area
   a) Campton Water System

Kentucky River Area Development District
Project Ranking Methodology

The KRADD Water Management Council meets once a year to prioritize projects in our area. Our area's utility managers and chief executives begin the ranking by first reviewing the previous year's prioritization and then pair off by county to discuss their current projects. Each county is given a list of the profiles they have in the WRIS and then they rank their basic needs during this portion of the meeting.

Once the counties rank their projects the Council then begins the process of prioritizing the projects that are of the most concern for the region. The council first discusses everyone's top ranked county project. This discussion is based on service population, violations the entity has received, current funding, whether the project is for new or existing customers and the overall community need. Following this discussion the council then begins the process of selecting the top regional projects based on the information presented. The county with the most critical overall need is the first ranked and then the other counties follow suit.

The Kentucky River region's main concerns for water projects are those that address establishing new water service to areas that currently rely on failing or contaminated wells and areas that must haul water. The region is also faced with major rehab as most systems have lines that have been in place for 40+ years as well as rehabilitation of existing plants and in cases where rehab is to expensive then the construction of new plants.

Wastewater concerns are focused on rehabilitation of lift stations and plants and when rehabilitation of the plants is not feasible construction of new ones. The majority of the area is now beginning to turn to wastewater service extensions as the past has mostly been focused on providing reliable and safe potable water to the residents. The majority of our counties are now reaching 80% served and some have even achieved 95-98% served. Our entities are now looking to improve the water quality and the environment by providing a reliable means of wastewater removal which will improve the streams that empty into the rivers most utilize for their water source.

Project Rankings For Kentucky River Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21025511	Jackson HWY 15 Water Improvement Project	3-5 Years	Not Funded	$1,472,970	Breathitt	1	1
WX21119022	Logan Gap Master Meter Replacement Project	0-2 Years	Not Funded	$5,874	Knott	2	1
WX21129004	Beattyville - Bear Track Waterline Replacement	3-5 Years	Not Funded	$612,000	Lee	3	1
WX21131002	Phase III Water System Improvements	3-5 Years	Partially Funded	$6,430,000	Leslie	4	1
WX21133500	Cumberland River Water Line Extension - Phase I	3-5 Years	Partially Funded	$669,000	Letcher	5	1
WX21189500	Booneville Radio Read Meter Project	3-5 Years	Not Funded	$498,500	Owsley	6	1
WX21193018	Fort Branch Water Line Extension Project	0-2 Years	Partially Funded	$977,829	Perry	7	1
WX21237011	Campton Tank Replacement Project	3-5 Years	Not Funded	$1,578,000	Wolfe	8	1
WX21237012	Trace Fork Waterline Project	3-5 Years	Not Funded	$80,190	Wolfe	9	2
WX21193023	Pomp Hollow Waterline Extension	0-2 Years	Partially Funded	$152,493	Perry	10	2
WX21189506	Booneville Pump Station Upgrade	3-5 Years	Not Funded	$111,600	Owsley	11	2
WX21133018	Cumberland River Waterline Extension Project - Phase II	3-5 Years	Partially Funded	$1,070,000	Letcher	12	2
WX21131111	Hyden/Leslie Water System Improvements Phase II	0-2 Years	Partially Funded	$2,000,000	Leslie	13	2
WX21025040	South Fork Elk View Waterline	3-5 Years	Not Funded	$1,442,000	Breathitt	14	2
			Total Cost:	**$17,100,456**			

Breathitt County

- 2010 census population of 13,878 (6,231 households) with 84% serviceable.
- Projected 2020 population of 12,495 (change of -1,383).
- Breathitt County has 326.72 miles of existing water lines.
- 78.00 miles of line extensions proposed in the next 10 years.
- 1.00 miles of line rehabilitation proposed in the next 10 years.
- 1.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $15,365,215.
- Estimated funding needs for projects from 6 to 10 years: $654,000.



Breathitt County has a 2010 census population count of 13,878 (6,231 households) with a projected 2020 population count of 12,495 (5,046 households). Public water is currently available to approximately 84 percent of the county's households based on 2010 census counts. Over the next ten years approximately 571 serviceable households will be added through the construction of 78.00 miles of water line extensions and approximately 1,599 instances of improved service through the rehabilitation of 1.00 miles of existing water lines and other appurtenances. 1.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Breathitt County Water District	21	$13,336,245	562	1,344	77.00	-	-
City of Jackson	2	$2,682,970	9	255	1.00	1.00	1.00
Totals:	**23**	**$16,019,215**	**571**	**1,599**	**78.00**	**1.00**	**1.00**

Community Drinking Water Systems in Breathitt County

Note: Serviceability counts are for households within Breathitt county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0131012	Breathitt County Water District	Breathitt	6,573	2,920
KY0130208	Jackson Municipal Water Works	Breathitt	4,719	2,172
KY0650024	Beattyville Water Works	Lee	129	58
KY0971007	Village of Buckhorn	Perry	151	60
KY1190061	Campton Water System	Wolfe	30	11
		Totals:	11,602	5,221

WATER SERVICE AREAS
BREATHITT COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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January, 2013

Water Resource Information System



WATER SERVICE BY OWNER

- BEATTYVILLE WATER WORKS
- BREATHITT COUNTY WATER DISTRICT
- HAZARD WATER DEPARTMENT
- JACKSON MUNICIPAL WATER WORKS
- MOUNT CARMEL HIGH/BOARDING SCHOOL
- VILLAGE OF BUCKHORN

System Summary for Breathitt County Water District

PWSID	KY0131012	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	4	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$45.35 per 4,000 gallons.	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 15 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	1,509
Residential Customers	1,509	Total Produced (MG)	-
Commercial Customers	-	Total Purchased (MG)	69.762
Institutional Customers	-	Total Inside Usage (MG)	59.870
Industrial Customers	-	Total Wholesale Sold (MG)	0.015
Wholesale Customers	1	Estimated Pct. Water Loss	14%

Total Distribution System Line Length = 247.18 miles (Distribution: 235.13 miles, Transmission: 12.04 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Breathitt County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21025511	Jackson HWY 15 Water Improvement Project	3-5 Years	Not Funded	$1,472,970	Breathitt	1	1
WX21025040	South Fork Elk View Waterline	3-5 Years	Not Funded	$1,442,000	Breathitt	14	2
WX21025008	Breathitt County Hwy 30 East and KY 542 Lambric Waterline Extensions	3-5 Years	Not Funded	$1,500,000	Breathitt		4
WX21025014	Breathitt - Hwy 2436 Airport Road Water Line Extensions	6-10 Years	Not Funded	$654,000	Breathitt		5
WX21025013	Breathitt - Hwy 540E Extensions (Frozen Area Phase III)	3-5 Years	Not Funded	$850,000	Breathitt		6
WX21025035	Stray Branch Water Line Extension	3-5 Years	Not Funded	$717,000	Breathitt		7
WX21025041	Hunting Creek Waterline Project	3-5 Years	Not Funded	$1,137,000	Breathitt		8
WX21025033	War Shoal Road Water Line Extension	3-5 Years	Not Funded	$227,000	Breathitt		9
WX21025028	Breathitt And Perry County Waterline Interconnection	3-5 Years	Partially Funded	$1,220,000	Breathitt		10
WX21025026	Robinson Fork And Fire Trail Road Water Line Extension	0-2 Years	Partially Funded	$366,000	Breathitt		11
WX21025034	Johnson Fork Water Line Extension	3-5 Years	Not Funded	$355,000	Breathitt		12
WX21025038	BCWD Vehicle and Equipment Purchases	0-2 Years	Not Funded	$100,596	Breathitt		13
WX21025029	War Creek Road Water Line Extension	0-2 Years	Partially Funded	$192,000	Breathitt		14
WX21025010	Breathitt - KY 315 And Hwy 28 Water Line Project	3-5 Years	Not Funded	$2,394,000	Breathitt		15
WX21025032	Highland Road Water Line Extensions	3-5 Years	Not Funded	$640,000	Breathitt		16
WX21025036	Puncheon Creek Water Line	3-5 Years	Not Funded	$223,000	Breathitt		17
WX21025039	Creekside Road Water Line Extension	3-5 Years	Not Funded	$202,000	Breathitt		18
WX21025046	Bryants Creek Waterline Extension	3-5 Years	Not Funded	$768,669	Breathitt		

System Summary for Jackson Municipal Water Works

PWSID	KY0130208	Treats Water	Yes, 1 plant with total capacity of 2.500 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	7	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$30.17 per 4,000 gallons.	Storage Capacity	Yes, 5 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$44.16 per 4,000 gallons.	Total Connections	2,397
Residential Customers	2,206	Total Produced (MG)	310.820
Commercial Customers	191	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	133.433
Industrial Customers	-	Total Wholesale Sold (MG)	69.762
Wholesale Customers	1	Estimated Pct. Water Loss	35%
Total Distribution System Line Length = 70.52 miles (Distribution: 69.21 miles, Transmission: 1.32 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Jackson Municipal Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21025511	Jackson HWY 15 Water Improvement Project	3-5 Years	Not Funded	$1,472,970	Breathitt	1	1
WX21025040	South Fork Elk View Waterline	3-5 Years	Not Funded	$1,442,000	Breathitt	14	2
WX21025101	Jackson - Hospital Water Tank Project	3-5 Years	Not Funded	$1,210,000	Breathitt		3
WX21025041	Hunting Creek Waterline Project	3-5 Years	Not Funded	$1,137,000	Breathitt		8

Knott County

- 2010 census population of 16,346 (7,461 households) with 81% serviceable.
- Projected 2020 population of 15,635 (change of -711).
- Knott County has 272.74 miles of existing water lines.
- 107.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $25,349,967.
- Estimated funding needs for projects from 6 to 10 years: $2,857,414.



Knott County has a 2010 census population count of 16,346 (7,461 households) with a projected 2020 population count of 15,635 (6,332 households). Public water is currently available to approximately 81 percent of the county's households based on 2010 census counts. Over the next ten years approximately 1,844 serviceable households will be added through the construction of 107.00 miles of water line extensions and approximately 2,430 instances of improved service through system wide upgrades.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Hindman	1	$750,000	43	-	12.00	-	-
City of Vicco	1	$1,700,000	-	-	3.00	-	-
Knott County Fiscal Court	1	$5,874	-	2,430	-	-	-
Knott County Water & Sewer District	10	$25,751,507	1,801	-	92.00	-	-
Totals:	**13**	**$28,207,381**	**1,844**	**2,430**	**107.00**	**-**	**-**

Community Drinking Water Systems in Knott County

Note: Serviceability counts are for households within Knott county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0600198	Hindman Water Department	Knott	3,269	1,565
KY0600062	Knott Co Water & Sewer District	Knott	8,371	3,699
KY0600129	Phoenix Place Water System	Knott	211	102
KY0360026	Southern Water & Sewer District	Floyd	941	428
KY0970184	Hazard Water Department	Perry	157	73
KY0970484	Vicco Water Supply	Perry	359	168
		Totals:	13,308	6,035

WATER SERVICE AREAS
KNOTT COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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January, 2013

Water Resource Information System



System Summary for Hindman Water Department

PWSID	KY0600198	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	2	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$33.30 per 4,000 gallons.	Storage Capacity	Yes, 6 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$33.30 per 4,000 gallons.	Total Connections	800
Residential Customers	800	Total Produced (MG)	-
Commercial Customers	-	Total Purchased (MG)	87.982
Institutional Customers	-	Total Inside Usage (MG)	58.536
Industrial Customers	-	Total Wholesale Sold (MG)	5.816
Wholesale Customers	1	Estimated Pct. Water Loss	27%
Total Distribution System Line Length = 50.90 miles (Distribution: 48.72 miles, Transmission: 2.18 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Hindman Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21119012	Hindman - Hwy 550E Extensions	3-5 Years	Not Funded	$750,000	Knott		

System Summary for Knott Co Water & Sewer District

PWSID	KY0600062	Treats Water	Yes, 1 plant with total capacity of 2.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Water District (KRS 74)	Groundwater Source	Yes, 1 source.
Employees	10	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$29.51 per 4,000 gallons.	Wholesale Provider	Yes, to 4 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 15 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	-	Total Connections	2,480
Residential Customers	2,471	Total Produced (MG)	592.848
Commercial Customers	9	Total Purchased (MG)	5.816
Institutional Customers	-	Total Inside Usage (MG)	96.692
Industrial Customers	-	Total Wholesale Sold (MG)	300.453
Wholesale Customers	4	Estimated Pct. Water Loss	34%
Total Distribution System Line Length = 189.84 miles (Distribution: 187.39 miles, Transmission: 2.45 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Knott Co Water & Sewer District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21119022	Logan Gap Master Meter Replacement Project	0-2 Years	Not Funded	$5,874	Knott	2	1
WX21119023	Redfox AML Waterline Extension	0-2 Years	Partially Funded	$4,666,684	Knott		
WX21119005	KCWSD - Carr Creek Water Line Project Phase IV	3-5 Years	Not Funded	$4,500,000	Knott		
WX21119052	KCWSD - Quicksand Water Line Extension Project	3-5 Years	Not Funded	$4,158,600	Knott		
WX21119053	KCWSD - Various Hollows Water Line Extension Project	3-5 Years	Not Funded	$4,084,500	Knott		
WX21119017	Knott - Hwy 1098 Extensions*	6-10 Years	Not Funded	$2,857,414	Knott		
WX21119008	Knott - Yellow Creek/Sassafras Creek Water Line Extension*	3-5 Years	Not Funded	$2,000,000	Knott		
WX21119750	Right Beaver AML Water Line Project	3-5 Years	Not Funded	$1,922,957	Knott		
WX21193209	Vicco-Knott County Interconnect	3-5 Years	Not Funded	$1,700,000	Perry		
WX21119721	Clear Creek AML Water Line Project	3-5 Years	Not Funded	$1,500,000	Knott		
WX21119067	KCWSD - Red Fox AML	3-5 Years	Not Funded	$46,000	Knott		
WX21119021	Vance Mountain RD Service Line Project	0-2 Years	Not Funded	$15,352	Knott		

System Summary for Phoenix Place Water System

PWSID	KY0600129	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Private Non-Profit	Groundwater Source	No
Employees	2	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$33.77 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	194
Residential Customers	194	Total Produced (MG)	-
Commercial Customers	-	Total Purchased (MG)	10.567
Institutional Customers	-	Total Inside Usage (MG)	10.015
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	5%
Total Distribution System Line Length = 5.09 miles (Distribution: 5.03 miles, Transmission: 0.06 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Phoenix Place Water System

Lee County

- 2010 census population of 7,887 (3,436 households) with 91% serviceable.
- Projected 2020 population of 7,820 (change of -67).
- Lee County has 264.28 miles of existing water lines.
- 1.00 miles of line extensions proposed in the next 10 years.
- 2.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $1,354,036.
- There are no projects planned from 6 to 10 years.



Lee County has a 2010 census population count of 7,887 (3,436 households) with a projected 2020 population count of 7,820 (3,014 households). Public water is currently available to approximately 91 percent of the county's households based on 2010 census counts. Over the next ten years approximately 2 serviceable households will be added through the construction of 1.00 miles of water line extensions and approximately 1,051 instances of improved service through the rehabilitation of 2.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Beattyville	2	$1,187,000	-	1,051	-	2.00	-
City of Campton	1	$167,036	2	-	1.00	-	-
Totals:	**3**	**$1,354,036**	**2**	**1,051**	**1.00**	**2.00**	**-**

Community Drinking Water Systems in Lee County

Note: Serviceability counts are for households within Lee county only.

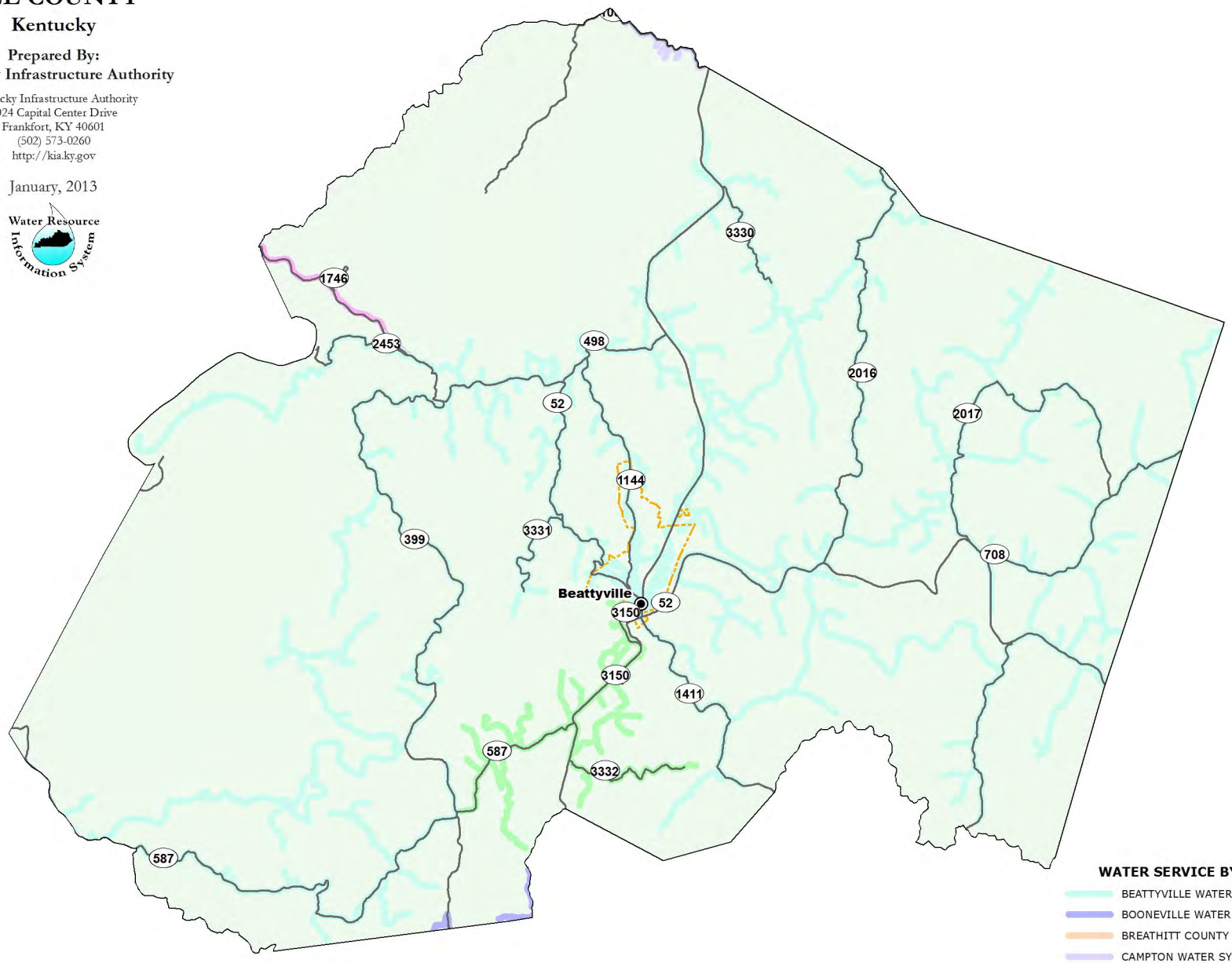
PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0650024	Beattyville Water Works	Lee	7,122	3,054
KY0330123	Estill County Water District #1	Estill	35	21
KY0950036	Booneville Water and Sewer	Owsley	28	11
KY1190061	Campton Water System	Wolfe	65	35
		Totals:	7,250	3,121

WATER SERVICE AREAS
LEE COUNTY
Kentucky

Prepared By:
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January, 2013



System Summary for Beattyville Water Works

PWSID	KY0650024	Treats Water	Yes, 1 plant with total capacity of 2.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	6	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$26.50 per 4,000 gallons.	Storage Capacity	Yes, 10 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	$32.49 per 4,000 gallons.	Total Connections	2,605
Residential Customers	2,438	Total Produced (MG)	299.894
Commercial Customers	140	Total Purchased (MG)	8.622
Institutional Customers	-	Total Inside Usage (MG)	173.344
Industrial Customers	6	Total Wholesale Sold (MG)	0.100
Wholesale Customers	1	Estimated Pct. Water Loss	44%

Total Distribution System Line Length = 260.68 miles (Distribution: 259.54 miles, Transmission: 1.14 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Beattyville Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21129004	Beattyville - Bear Track Waterline Replacement	3-5 Years	Not Funded	$612,000	Lee	3	1
WX21129007	Southside Water Association Acquisition and Meter Replacement Pr	0-2 Years	Not Funded	$575,000	Lee		

Leslie County

- 2010 census population of 11,310 (5,278 households) with 81% serviceable.
- Projected 2020 population of 10,603 (change of -707).
- Leslie County has 247.76 miles of existing water lines.
- 36.00 miles of line extensions proposed in the next 10 years.
- 2.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $9,740,000.
- There are no projects planned from 6 to 10 years.



Leslie County has a 2010 census population count of 11,310 (5,278 households) with a projected 2020 population count of 10,603 (4,377 households). Public water is currently available to approximately 81 percent of the county's households based on 2010 census counts. Over the next ten years approximately 166 serviceable households will be added through the construction of 36.00 miles of water line extensions and approximately 4,600 instances of improved service through the rehabilitation of 2.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Hyden-Leslie County Water District	4	$9,740,000	166	4,600	36.00	2.00	-
Totals:	**4**	**$9,740,000**	**166**	**4,600**	**36.00**	**2.00**	**-**

Community Drinking Water Systems in Leslie County

Note: Serviceability counts are for households within Leslie county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0660204	Hyden Leslie Co Water District	Leslie	9,209	4,275
KY0260737	Manchester Water Works	Clay	22	13
		Totals:	9,231	4,288

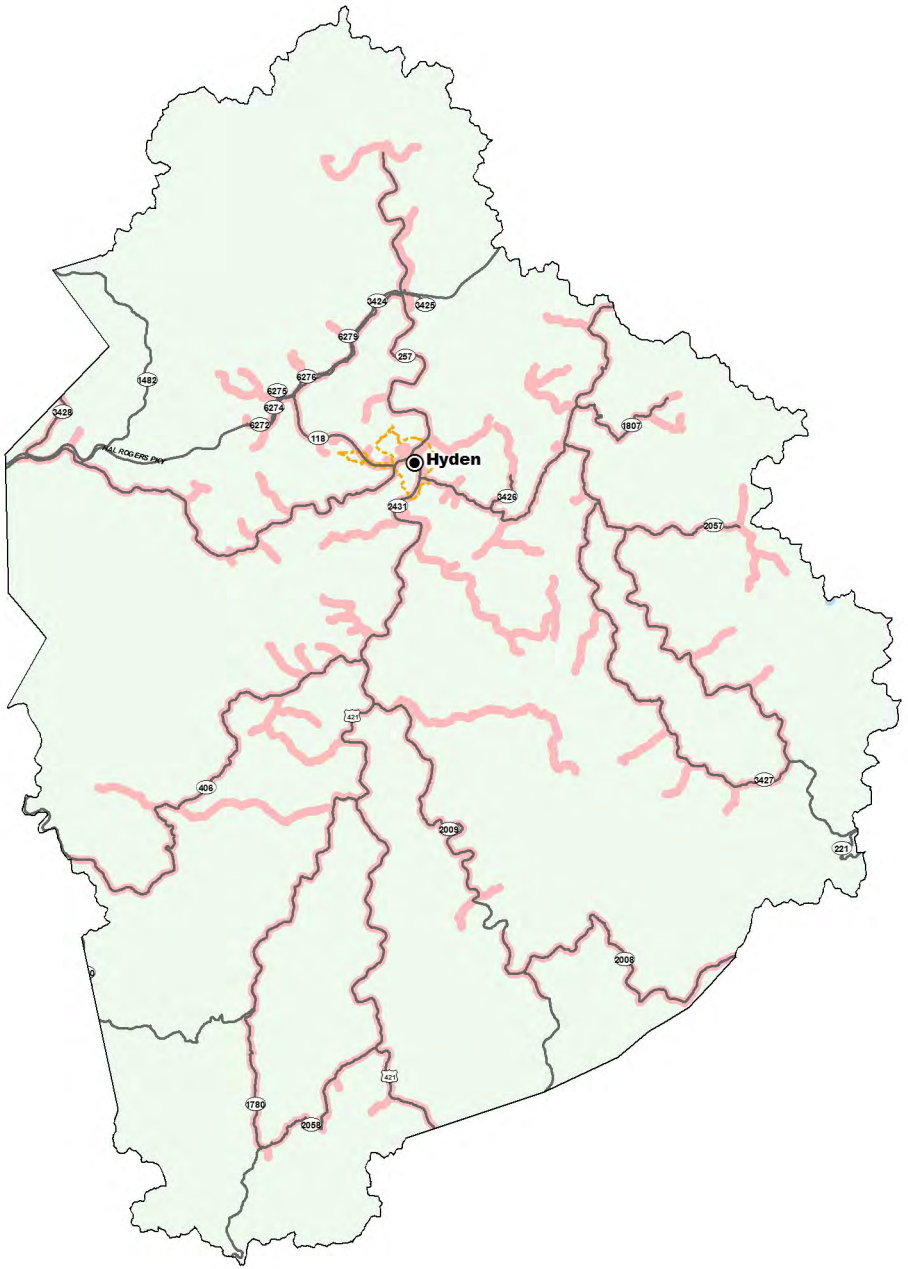
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LESLIE COUNTY
Kentucky

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January, 2013

Water Resource Information System



WATER SERVICE BY OWNER

- GREEN HILLS WATER DISTRICT
- HAZARD WATER DEPARTMENT
- HYDEN LESLIE CO WATER DISTRICT
- MANCHESTER WATER WORKS

System Summary for Hyden Leslie Co Water District

PWSID	KY0660204	Treats Water	Yes, 1 plant with total capacity of 1.500 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	10	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$26.90 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 11 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	-	Total Connections	3,484
Residential Customers	3,212	Total Produced (MG)	381.159
Commercial Customers	268	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	246.456
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	35%
Total Distribution System Line Length = 248.54 miles (Distribution: 247.05 miles, Transmission: 1.48 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Hyden Leslie Co Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21131002	Phase III Water System Improvements	3-5 Years	Partially Funded	$6,430,000	Leslie	4	1
WX21131111	Hyden/Leslie Water System Improvements Phase II	0-2 Years	Partially Funded	$2,000,000	Leslie	13	2
WX21131005	Phase V Water System Improvements	3-5 Years	Not Funded	$655,000	Leslie		4
WX21131006	Phase VI Water System Improvements	3-5 Years	Not Funded	$655,000	Leslie		5

Letcher County

- 2010 census population of 24,519 (11,601 households) with 70% serviceable.
- Projected 2020 population of 24,237 (change of -282).
- Letcher County has 264.48 miles of existing water lines.
- 75.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- 3.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $24,626,684.
- Estimated funding needs for projects from 6 to 10 years: $5,339,000.



Letcher County has a 2010 census population count of 24,519 (11,601 households) with a projected 2020 population count of 24,237 (10,161 households). Public water is currently available to approximately 70 percent of the county's households based on 2010 census counts. Over the next ten years approximately 884 serviceable households will be added through the construction of 75.00 miles of water line extensions and approximately 9,964 instances of improved service through system wide upgrades. 3.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Fleming-Neon	1	$3,000,000	-	1,137	-	-	-
City of Jenkins	4	$5,850,000	15	3,364	2.00	-	3.00
City of Whitesburg	2	$7,750,000	-	2,600	-	-	-
Knott County Water & Sewer District	1	$4,666,684	3	-	-	-	-
Letcher County Fiscal Court	1	$125,000	-	2,196	-	-	-
Letcher County Water & Sewer District	4	$8,574,000	866	667	73.00	-	-
Totals:	**13**	**$29,965,684**	**884**	**9,964**	**75.00**	**-**	**3.00**

Community Drinking Water Systems in Letcher County

Note: Serviceability counts are for households within Letcher county only.

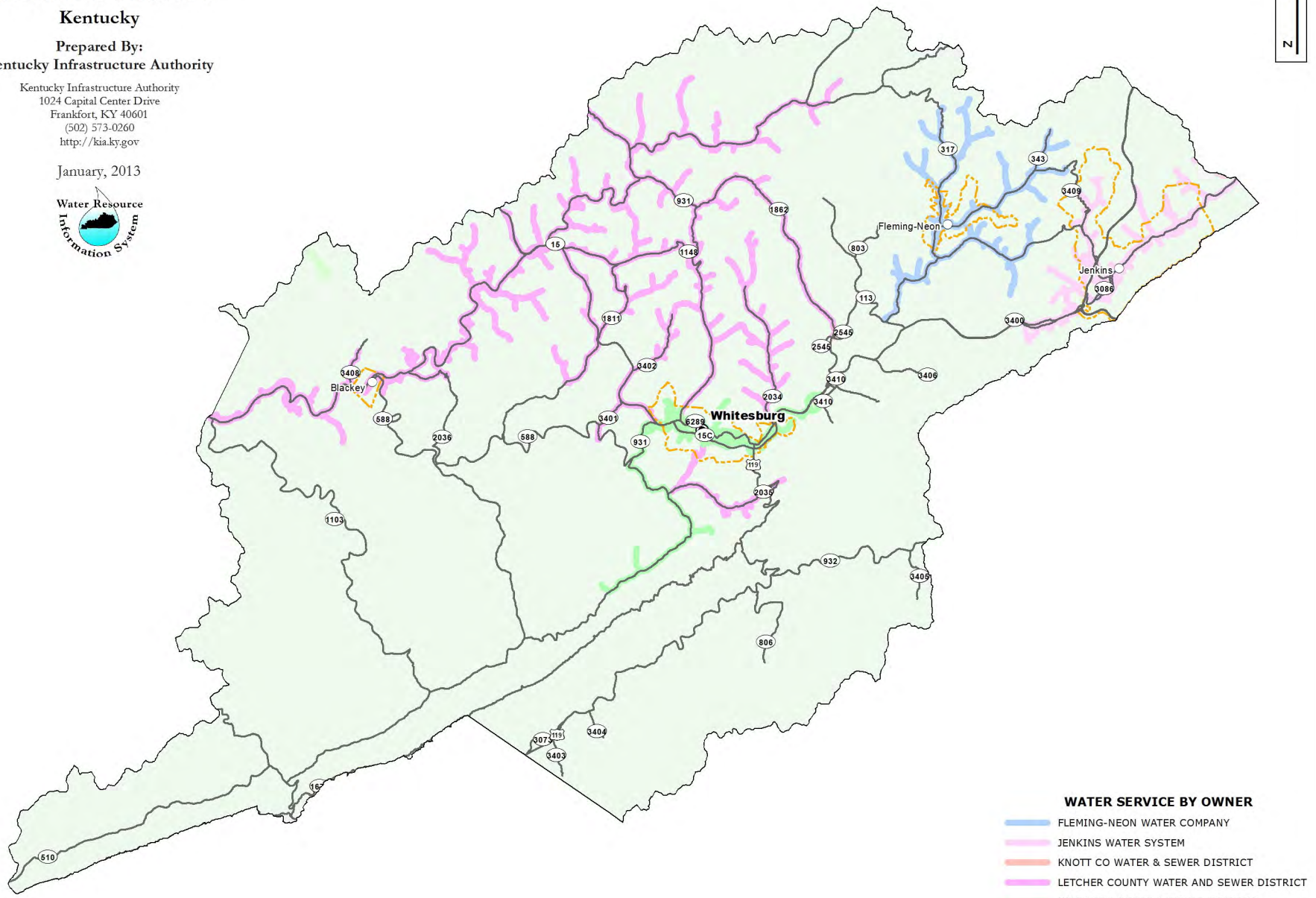
PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0670279	Fleming-Neon Water Company	Letcher	3,198	1,587
KY0670213	Jenkins Water System	Letcher	2,603	1,249
KY0670462	Letcher County Water and Sewer District	Letcher	7,986	3,766
KY0670466	Whitesburg Water System	Letcher	3,159	1,461
KY0480092	Cumberland Municipal Water Works	Harlan	72	30
KY0970484	Vicco Water Supply	Perry	49	20
		Totals:	17,067	8,113

WATER SERVICE AREAS
LETCHER COUNTY
Kentucky

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January, 2013



System Summary for Fleming-Neon Water Company

PWSID	KY0670279	Treats Water	Yes, 1 plant with total capacity of 0.360 MGD.
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	Yes, 1 source.
Employees	3	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$22.84 per 4,000 gallons.	Storage Capacity	Yes, 6 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$25.04 per 4,000 gallons.	Total Connections	1,136
Residential Customers	1,092	Total Produced (MG)	118.680
Commercial Customers	44	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	66.700
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	44%

Total Distribution System Line Length = 35.06 miles (Distribution: 34.49 miles, Transmission: 0.57 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Fleming-Neon Water Company

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21133029	Water Treatment Plant Upgrade Project	3-5 Years	Not Funded	$3,000,000	Letcher		5
WX21133015	Fleming-Neon Waterline Interconnection	3-5 Years	Not Funded	$400,000	Letcher		8
WX21133031	Pine Mountain Water Study	3-5 Years	Not Funded	$125,000	Letcher		10

System Summary for Jenkins Water System

PWSID	KY0670213	Treats Water	Yes, 1 plant with total capacity of 1.000 MGD.
System Type	Community	Surface Source	Yes, 3 sources.
Owner Type	Incorporated City	Groundwater Source	No
Employees	5	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$28.15 per 4,000 gallons.	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$46.72 per 4,000 gallons.	Total Connections	894
Residential Customers	839	Total Produced (MG)	191.435
Commercial Customers	55	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	96.027
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	50%

Total Distribution System Line Length = 39.15 miles (Distribution: 39.10 miles, Transmission: 0.06 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Jenkins Water System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21133015	Fleming-Neon Waterline Interconnection	3-5 Years	Not Funded	$400,000	Letcher		8
WX21133031	Pine Mountain Water Study	3-5 Years	Not Funded	$125,000	Letcher		10
WX21133047	Jenkins - Fishpond Lake Raw Water Project	3-5 Years	Not Funded	$1,850,000	Letcher		11
WX21133045	Jenkins -Water Tank Rehabilitation	3-5 Years	Not Funded	$600,000	Letcher		12
WX21133050	Jenkins - Water Plant Improvements	3-5 Years	Not Funded	$3,000,000	Letcher		15

System Summary for Letcher County Water and Sewer District

PWSID	KY0670462	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	5	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	$34.66 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 5 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	2,910
Residential Customers	2,850	Total Produced (MG)	-
Commercial Customers	43	Total Purchased (MG)	237.776
Institutional Customers	-	Total Inside Usage (MG)	141.040
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	41%

Total Distribution System Line Length = 158.91 miles (Distribution: 157.26 miles, Transmission: 1.66 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Letcher County Water and Sewer District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21119022	Logan Gap Master Meter Replacement Project	0-2 Years	Not Funded	$5,874	Knott	2	1
WX21133016	Letcher - Hwy 510/Gordon Water Line Extensions	6-10 Years	Not Funded	$2,739,000	Letcher		4
WX21133012	Letcher - Kings Creek/Oscaloosa	6-10 Years	Not Funded	$2,600,000	Letcher		6
WX21133024	Hazard-Letcher County Water Interconnection Project	0-2 Years	Not Funded	$625,000	Letcher		7
WX21133017	LCWSD - Millstone Water Project	3-5 Years	Partially Funded	$2,610,000	Letcher		

System Summary for Whitesburg Water System

PWSID	KY0670466	Treats Water	Yes, 1 plant with total capacity of 0.864 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	4	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$16.50 per 4,000 gallons.	Storage Capacity	Yes, 7 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	$34.00 per 4,000 gallons.	Total Connections	1,315
Residential Customers	1,167	Total Produced (MG)	278.068
Commercial Customers	147	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	88.574
Industrial Customers	-	Total Wholesale Sold (MG)	96.633
Wholesale Customers	1	Estimated Pct. Water Loss	33%
Total Distribution System Line Length = 32.00 miles (Distribution: 31.98 miles, Transmission: 0.02 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Whitesburg Water System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21133031	Pine Mountain Water Study	3-5 Years	Not Funded	$125,000	Letcher		10
WX21133100	Whitesburg - Water Storage Tank Rehabilitation	3-5 Years	Not Funded	$750,000	Letcher		13
WX21133101	Whitesburg - Water Treatment Plant Expansion	3-5 Years	Not Funded	$7,000,000	Letcher		14

Owsley County

- 2010 census population of 4,755 (2,328 households) with 95% serviceable.
- Projected 2020 population of 4,704 (change of -51).
- Owsley County has 236.03 miles of existing water lines.
- 3.00 miles of line extensions proposed in the next 10 years.
- 2.00 miles of line rehabilitation proposed in the next 10 years.
- 1.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $9,134,960.
- There are no projects planned from 6 to 10 years.



Owsley County has a 2010 census population count of 4,755 (2,328 households) with a projected 2020 population count of 4,704 (1,971 households). Public water is currently available to approximately 95 percent of the county's households based on 2010 census counts. Over the next ten years approximately 10 serviceable households will be added through the construction of 3.00 miles of water line extensions and approximately 6,443 instances of improved service through the rehabilitation of 2.00 miles of existing water lines and other appurtenances. 1.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Booneville	7	$9,134,960	10	6,443	3.00	2.00	1.00
Totals:	**7**	**$9,134,960**	**10**	**6,443**	**3.00**	**2.00**	**1.00**

Community Drinking Water Systems in Owsley County

Note: Serviceability counts are for households within Owsley county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0950036	Booneville Water and Sewer	Owsley	4,511	2,203
		Totals:	4,511	2,203

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OWSLEY COUNTY
Kentucky

Prepared By:
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January, 2013



System Summary for Booneville Water and Sewer

PWSID	KY0950036	Treats Water	Yes, 1 plant with total capacity of 0.720 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	6	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$32.50 per 4,000 gallons.	Storage Capacity	Yes, 14 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	$40.50 per 4,000 gallons.	Total Connections	1,850
Residential Customers	1,850	Total Produced (MG)	178.529
Commercial Customers	-	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	100.715
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	44%

Total Distribution System Line Length = 246.95 miles (Distribution: 246.27 miles, Transmission: 0.68 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Booneville Water and Sewer

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21189500	Booneville Radio Read Meter Project	3-5 Years	Not Funded	$498,500	Owsley	6	1
WX21189506	Booneville Pump Station Upgrade	3-5 Years	Not Funded	$111,600	Owsley	11	2
WX21189003	Booneville Water Treatment Plant	3-5 Years	Not Funded	$6,379,900	Owsley		3
WX21189005	Booneville Water Line Extensions - 2010	3-5 Years	Not Funded	$252,000	Owsley		4
WX21189501	Booneville Water Treatment Plant Improvements	3-5 Years	Not Funded	$1,104,000	Owsley		6
WX21189509	Booneville Highway 11/Wolfe Creek Loop	3-5 Years	Not Funded	$204,200	Owsley		7
WX21189502	Booneville Raw Water Intake Project	3-5 Years	Not Funded	$584,760	Owsley		
WX21189004	Saul Area Water Line Extensions	3-5 Years	Not Funded	$417,800	Perry		

Perry County

- 2010 census population of 28,712 (12,791 households) with 92% serviceable.
- Projected 2020 population of 28,137 (change of -575).
- Perry County has 455.00 miles of existing water lines.
- 14.00 miles of line extensions proposed in the next 10 years.
- 2.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $5,417,257.
- There are no projects planned from 6 to 10 years.



Perry County has a 2010 census population count of 28,712 (12,791 households) with a projected 2020 population count of 28,137 (11,637 households). Public water is currently available to approximately 92 percent of the county's households based on 2010 census counts. Over the next ten years approximately 120 serviceable households will be added through the construction of 14.00 miles of water line extensions and approximately 63 instances of improved service through the rehabilitation of 2.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Breathitt County Water District	1	$1,220,000	-	-	1.00	-	-
City of Booneville	1	$417,800	50	-	4.00	-	-
Knott County Water & Sewer District	1	$2,000,000	-	-	3.00	-	-
Perry County Fiscal Court	4	$1,779,457	70	63	6.00	2.00	-
Totals:	**7**	**$5,417,257**	**120**	**63**	**14.00**	**2.00**	**-**

Community Drinking Water Systems in Perry County

Note: Serviceability counts are for households within Perry county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0970184	Hazard Water Department	Perry	22,807	10,196
KY0970484	Vicco Water Supply	Perry	2,514	1,096
KY0971007	Village of Buckhorn	Perry	793	342
KY0600062	Knott Co Water & Sewer District	Knott	112	46
KY0600129	Phoenix Place Water System	Knott	88	34
KY0950036	Booneville Water and Sewer	Owsley	129	70
		Totals:	26,443	11,784

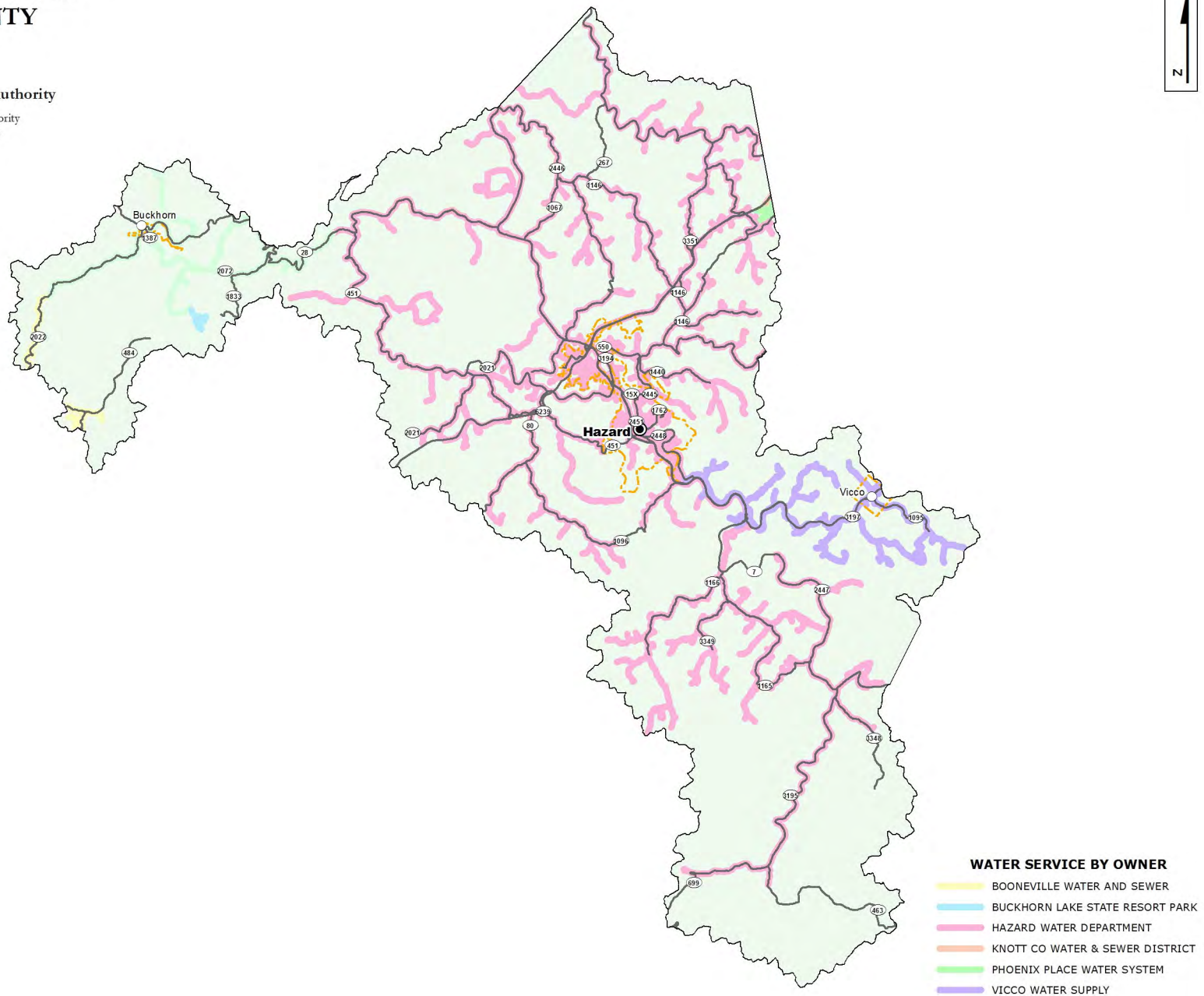
WATER SERVICE AREAS
PERRY COUNTY
Kentucky

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January, 2013

Water Resource Information System



System Summary for Hazard Water Department

PWSID	KY0970184	Treats Water	Yes, 1 plant with total capacity of 5.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	6	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	$20.64 per 4,000 gallons.	Storage Capacity	Yes, 24 tanks with total capacity of 10.000 MG.
Outside Mun. Cost	$28.34 per 4,000 gallons.	Total Connections	8,533
Residential Customers	8,069	Total Produced (MG)	800.500
Commercial Customers	455	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	730.100
Industrial Customers	5	Total Wholesale Sold (MG)	32.632
Wholesale Customers	2	Estimated Pct. Water Loss	5%
Total Distribution System Line Length = 374.33 miles (Distribution: 373.08 miles, Transmission: 1.26 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Hazard Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21193018	Fort Branch Water Line Extension Project	0-2 Years	Partially Funded	$977,829	Perry	7	1
WX21193023	Pomp Hollow Waterline Extension	0-2 Years	Partially Funded	$152,493	Perry	10	2
WX21133024	Hazard-Letcher County Water Interconnection Project	0-2 Years	Not Funded	$625,000	Letcher		7
WX21193194	Hazard - Hiner/Bulan Mountain Line Replacement Project	0-2 Years	Partially Funded	$439,000	Perry		
WX21193022	Lewis Hollow Waterline Extension	0-2 Years	Not Funded	$210,135	Perry		

System Summary for Vicco Water Supply

PWSID	KY0970484	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	3	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$37.76 per 4,000 gallons.	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$39.24 per 4,000 gallons.	Total Connections	1,051
Residential Customers	982	Total Produced (MG)	-
Commercial Customers	50	Total Purchased (MG)	79.691
Institutional Customers	-	Total Inside Usage (MG)	29.139
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	63%

Total Distribution System Line Length = 54.72 miles (Distribution: 54.63 miles, Transmission: 0.10 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Vicco Water Supply

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21193209	Vicco-Knott County Interconnect	3-5 Years	Not Funded	$1,700,000	Perry		

System Summary for Village of Buckhorn

PWSID	KY0971007	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	3	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$30.70 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	$43.96 per 4,000 gallons.	Total Connections	235
Residential Customers	214	Total Produced (MG)	-
Commercial Customers	-	Total Purchased (MG)	29.717
Institutional Customers	20	Total Inside Usage (MG)	21.308
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	28%
Total Distribution System Line Length = 30.27 miles (Distribution: 30.27 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Village of Buckhorn

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21025028	Breathitt And Perry County Waterline Interconnection	3-5 Years	Partially Funded	$1,220,000	Breathitt		10

Wolfe County

- 2010 census population of 7,355 (3,660 households) with 90% serviceable.
- Projected 2020 population of 7,636 (change of 281).
- Wolfe County has 236.08 miles of existing water lines.
- 10.00 miles of line extensions proposed in the next 10 years.
- 1.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $3,007,223.
- There are no projects planned from 6 to 10 years.



Wolfe County has a 2010 census population count of 7,355 (3,660 households) with a projected 2020 population count of 7,636 (3,285 households). Public water is currently available to approximately 90 percent of the county's households based on 2010 census counts. Over the next ten years approximately 58 serviceable households will be added through the construction of 10.00 miles of water line extensions and approximately 2,176 instances of improved service through the rehabilitation of 1.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Campton	4	$3,007,223	58	2,176	10.00	1.00	-
Totals:	**4**	**$3,007,223**	**58**	**2,176**	**10.00**	**1.00**	**-**

Community Drinking Water Systems in Wolfe County

Note: Serviceability counts are for households within Wolfe county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY1190061	Campton Water System	Wolfe	6,506	3,252
KY0650024	Beattyville Water Works	Lee	23	12
KY0880594	Morgan County Water District	Morgan	55	29
		Totals:	6,584	3,293

WATER SERVICE AREAS
WOLFE COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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January, 2013



System Summary for Campton Water System

PWSID	KY1190061	Treats Water	Yes, 1 plant with total capacity of 1.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	Yes, 1 source.
Employees	14	Wholesale Purchaser	Yes, from 3 providers.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$33.50 per 4,000 gallons.	Storage Capacity	Yes, 12 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	$36.50 per 4,000 gallons.	Total Connections	2,181
Residential Customers	1,996	Total Produced (MG)	139.744
Commercial Customers	133	Total Purchased (MG)	1.500
Institutional Customers	-	Total Inside Usage (MG)	139.744
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	1%

Total Distribution System Line Length = 244.73 miles (Distribution: 244.27 miles, Transmission: 0.46 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Campton Water System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21237011	Campton Tank Replacement Project	3-5 Years	Not Funded	$1,578,000	Wolfe	8	1
WX21237012	Trace Fork Waterline Project	3-5 Years	Not Funded	$80,190	Wolfe	9	2
WX21237746	Campton South Valeria Water Extension Project	3-5 Years	Not Funded	$1,142,400	Wolfe		3
WX21237010	City of Campton - Barker Branch - Water Extensions	3-5 Years	Partially Funded	$167,036	Wolfe		4
WX21237009	Spring Branch, Kelse Holland Fork And B. Potter Fork Water Line	0-2 Years	Not Funded	$206,633	Wolfe		

Lake Cumberland Area Development District (LCADD)

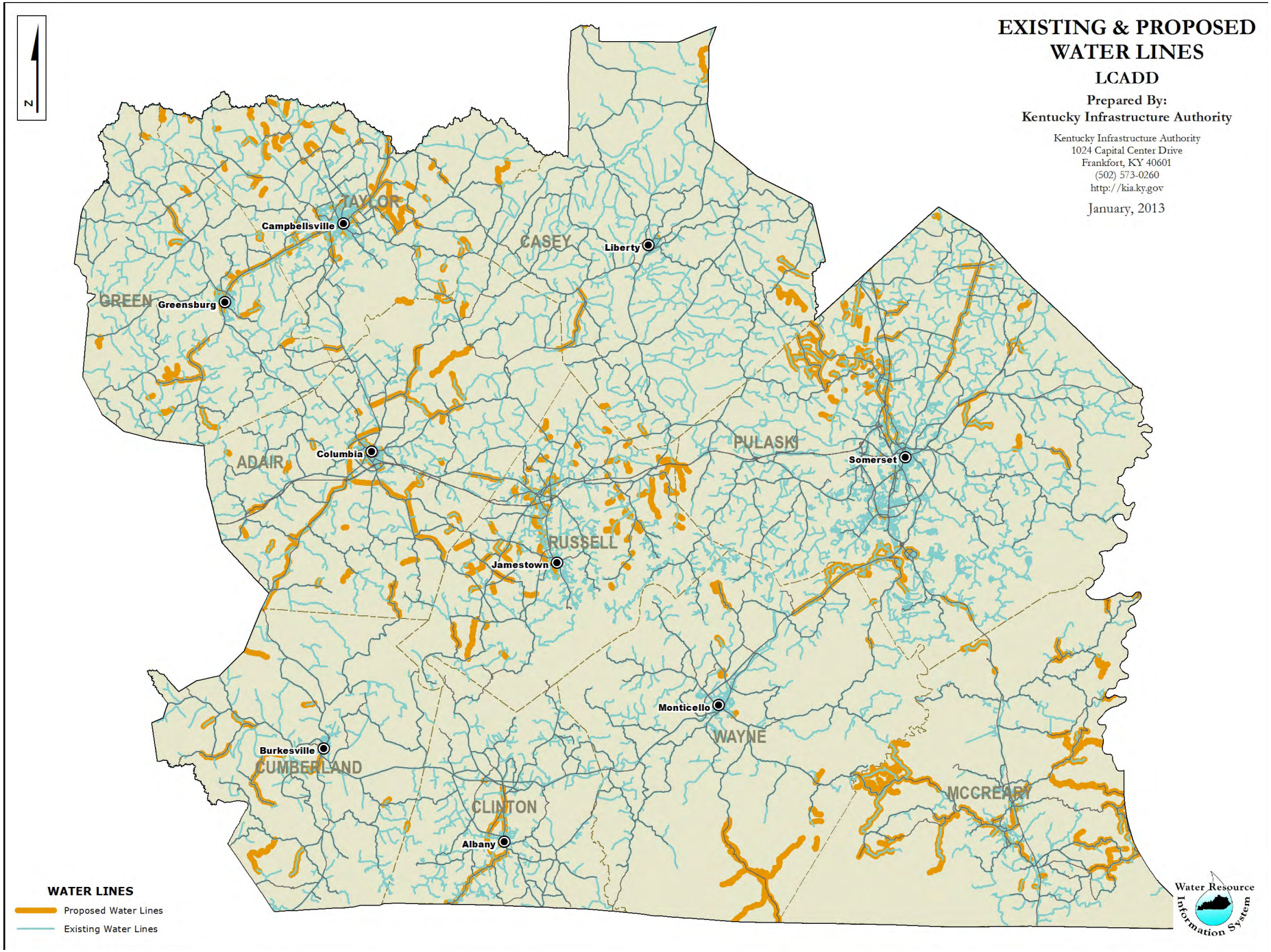


- 2010 census population of 207,256 (101,129 households) with 95% serviceable.
- Projected 2020 population of 221,481 (change of 14,225).
- 5,493.00 miles of existing water lines.
- 311.00 miles of line extensions proposed in the next 10 years.
- 99.00 miles of line rehabilitation proposed in the next 10 years.
- 67.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $135,094,939.
- Estimated funding needs for projects from 6 to 10 years: $20,540,917.
- Average age of structures: water treatment plants is 38 years; water tanks is 26 years.
- Total number of interconnected systems is 21.
- 55 miles of asbestos concrete pipe currently in use.
- 1,343 miles of water lines less than 15 years old.
- 2,382 miles of water lines between 15 and 30 years old.
- 1,598 miles of water lines between 31 and 50 years old.
- 98 miles of water lines between 51 and 70 years old.
- 162 miles of water lines greater than 70 years old.

Lake Cumberland Area Development District has a 2010 census population count of 207,256 (101,129 households) with a projected 2020 population count of 221,481 (92,378 households). Public water is currently available to approximately 95 percent of the district's households based on 2010 census counts. Over the next ten years approximately 756 serviceable households will be added through the construction of 311.00 miles of water line extensions and approximately 46,322 instances of improved service through the rehabilitation of 99.00 miles of existing water lines and other appurtenances. 67.00 miles of transmission lines are also proposed within this district.

County Summary for Lake Cumberland Area Development District

County Name	2010 Population	2010 Households	2020 Population	2020 Households	Serviceable Households	Percent Serviceable	Planned Cost 0 to 10 Years
Adair	18,656	8,568	20,052	8,151	7,698	90%	$ 16,393,215
Casey	15,955	7,487	16,433	6,791	7,305	98%	$ 8,119,000
Clinton	10,272	5,311	10,896	4,755	5,181	98%	$ 5,000,700
Cumberland	6,856	3,690	6,649	2,840	3,553	96%	$ 4,010,600
Green	11,258	5,324	11,112	4,660	5,203	98%	$ 6,567,900
McCreary	18,306	7,507	18,314	6,819	6,270	84%	$ 29,412,747
Pulaski	63,063	31,443	71,036	29,901	30,541	97%	$ 39,337,194
Russell	17,565	9,993	18,782	8,112	9,729	97%	$ 8,889,885
Taylor	24,512	10,864	26,079	10,663	10,582	97%	$ 21,592,115
Wayne	20,813	10,942	22,128	9,686	9,748	89%	$ 16,312,500
Totals	**207,256**	**101,129**	**221,481**	**92,378**	**95,810**	**95%**	**$ 155,635,856**


EXISTING & PROPOSED
WATER LINES
LCADD
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January, 2013
N
TAYLOR
Campbellsville
CASEY
Liberty
GREEN
Greensburg
ADAIR
Columbia
PULASKI
Somerset
RUSSELL
Jamestown
Monticello
WAYNE
Burkesville
CUMBERLAND
CLINTON
Albany
MCCREARY
WATER LINES
Proposed Water Lines
Existing Water Lines
Water Resource Information System

Community Water Systems in Lake Cumberland Area Development District County

Note: Serviceable counts include households outside the area development district.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0010702	Columbia/Adair Utilities District	Adair	16,728	7,610
KY0230556	East Casey County Water District	Casey	12,033	5,729
KY0230987	Liberty Water & Gas	Casey	2,303	1,003
KY0270003	Albany Municipal Water & Sewer	Clinton	9,908	5,112
KY0290049	Burkesville Municipal Water Works	Cumberland	1,909	951
KY0290271	Cumberland County Water District	Cumberland	4,770	2,612
KY0440167	Green-Taylor Water District	Green	11,336	5,185
KY0440168	Greensburg Water Department	Green	2,284	1,138
KY0740276	McCreary County Water District	McCreary	14,875	6,266
KY1000043	Bronston Water Association	Pulaski	3,099	1,938
KY1000050	Burnside Municipal Water Works	Pulaski	1,165	678
KY1000124	Eubank Water System	Pulaski	10,142	4,468
KY1000362	Science Hill Water Works	Pulaski	4,756	2,055
KY1000403	Somerset Utilities	Pulaski	17,104	8,273
KY1000311	Southeastern Water Association	Pulaski	15,014	8,038
KY1000363	Western Pulaski County Water District	Pulaski	16,902	8,917
KY1000973	Woodson Bend Property Owners Association	Pulaski	149	371
KY1040210	Jamestown Utilities	Russell	7,381	4,204
KY1040377	Russell Springs Sewer & Water Works	Russell	9,270	4,806
KY1090060	Campbellsville Municipal Water & Sewer System	Taylor	21,047	9,370
KY1160291	Monticello Utility Commission	Wayne	17,494	8,633
		Totals:	199,669	97,357

Lake Cumberland Area Development District
Regional Water Needs Assessment

Primary Need: **Repair and Replace Existing Infrastructure**
Secondary Need: **Extend Services to Unserved Areas**

Discussion of Area Development District Needs:

The Lake Cumberland Area Development District planning units are in need of repairing and replacing existing infrastructure. The systems in the Lake Cumberland Area need to repair and/or replace pump stations, water lines and tanks due to aging infrastructure. The some systems also need to upgrade the existing treatment plants with safer, more efficient methods of treatment.

The Lake Cumberland Area Development District planning units would like to provide service to more customers by extending service to unserved areas. Providing service to unserved areas will eliminate the use of contaminated individual wells in rural areas.

The needs of the Lake Cumberland Regional Water Management Council are a very diverse collection. Other needs of the area include meeting regulatory requirements, increasing storage capacity, and regionalization.

Description and Determination of Planning Units:

The Lake Cumberland Area Development District is made up of fifteen planning units. The planning units were determined by the Lake Cumberland Regional Water Management Council based on local issues in the area such as location, size of area, number of customers, number of systems, and need and ability of systems to plan together. The planning units are Adair (Columbia/Adair County Water Commission and Columbia/Adair Utilities District), Bronston/Burnside (Bronston Water Association and Burnside Municipal Water Works), Campbellsville (Campbellsville Municipal Water & Sewer System), Casey (East Casey County Water District and Liberty Water & Gas), Clinton (Albany Municipal Water & Sewer), Cumberland (Burkesville Municipal Water Works and Cumberland County Water District), Eubank/Science Hill (City of Eubank Water System and Science Hill Water Works), Green-Taylor (Green-Taylor Water District),Greensburg (Greensburg Water Department), McCreary (McCreary County Water District), Russell (Jamestown Utilities and Russell Springs Sewer & Water Works), Somerset (Somerset Utilities), Southeastern (Southeastern Water Association), Wayne (Monticello Utility Commission), and Western (Western Pulaski County Water District).

Lake Cumberland Area Development District
Project Ranking Methodology

The current needs in the Lake Cumberland ADD region are quite sizeable. While water service has been provided to most residents some are still in need of service, expanded treatment capacity and replacement of aging or undersized lines are becoming more and more necessary. For wastewater, the needs include system expansion, unserved areas, aging infrastructure, and expanded treatment capacity.

The Lake Cumberland Regional Water Management Council uses a point based rankling system to rank the needs of the area. Each local system was asked to submit their most needed projects to the Council for ranking. Projects were scored on a series of criteria including Type of Project, Regionalism, Shovel Readiness, Funding Status, and Local Need. Additional bonus points were assigned at the discretion of the Council for projects deemed most deserving. In the event of a tie, the project's Cost per Connection was used as the deciding factor.

The following point criterion was approved by the Lake Cumberland Regional Water Management Council on September 4, 2014 and will be used to rank projects on December 4, 2014:

Type of Project (up to 20 points assigned)

Unserved – Points based on number of households served per mile
AVERAGE 9 OR GREATER HOUSEHOLDS PER MILE - 20
AVERAGE 5-6 HOUSEHOLDS PER MILE - 18
AVERAGE 3-4 HOUSEHOLDS PER MILE - 15
AVERAGE 1-2 HOUSEHOLDS PER MILE - 10
AVERAGE OF LESS THAN 1 HOUSEHOLDS PER MILE – 5

Underserved – Points based on percentage of total customer base impacted
80-100% OF TOTAL CUSTOMER BASE IMPACTED - 20
60-79% OF TOTAL CUSTOMER BASE IMPACTED - 19
40-59% OF TOTAL CUSTOMER BASE IMPACTED - 18
20-39% OF TOTAL CUSTOMER BASE IMPACTED- 15
10-19% OF TOTAL CUSTOMER BASE IMPACTED - 10
LESS THAN 10% OF TOTAL CUSTOMER BASE IMPACTED - 5

Industrial/Commercial – Points based on number of jobs created/retained
100 OR MORE NEW JOBS CREATED OR JOBS RETAINED - 20
75-99 NEW JOBS CREATED OR JOBS RETAINED - 19
50-74 NEW JOBS CREATED OR JOBS RETAINED - 18
20-49 NEW JOBS CREATED OR JOBS RETAINED - 15
10-19 NEW JOBS CREATED OR JOBS RETAINED - 10
LESS THAN 10 NEW JOBS CREATED OR JOBS RETAINED – 5

Other – 3 points assigned for projects not meeting the above types

Combination – Most favorable listed category plus an additional 3 points

Project Delivery (up to 20 points assigned)
Regional - 20 points
Non-Regional – 5 points

Project Status (up to 20 points assigned)
Engineering Plans and specs submitted to DOW - 20 points
Preliminary Engineering Report completed - 15 points
Engineering procurement completed – 10 points
Preliminary planning by system - 5 points

Funding Status (up to 20 points assigned)

Projects with estimated costs greater than $100,000
Funding committed for 50% or more - 20 points
Funding committed for 25-49% or more - 15 points
Funding committed for 1-24% - 10 points
Pending applications - 3 points
Projects with estimated costs of $100,000 or less - 10 points

Local Need (up to 20 points assigned)

Points assigned based on the planning unit ranking

1ST – 20 POINTS
2ND – 16 POINTS
3RD – 13 POINTS
4TH – 11 POINTS
5TH – 9 POINTS
6TH – 7 POINTS
7TH – 6 POINTS
8TH – 5 POINTS
9TH – 4 POINTS
10TH – 3 POINTS
11TH – 2 POINTS
12TH – 1 POINTS
13TH OR HIGHER – 0 POINTS

Council Input (up to 10 points assigned)

Council assigns 10 bonus points to 15% of projects
Special consideration is given to any project that addresses an agreed order, tap-on-ban, NOV, or other specific violation from the Kentucky Division of Water.

Tie Breaker (no points assigned)

Cost per connection - only used to break point based ties
Lowest cost per connection is ranked highest

Project Rankings For Lake Cumberland Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21147023	MCWD – Emergency Water Plant Power Supply	3-5 Years	Partially Funded	$1,072,000	McCreary	1	1
WX21217022	Taylor County School Water & Sewer System Extension	3-5 Years	Not Funded	$180,600	Taylor	2	1
WX21199123	Water System Improvements & Replacements	3-5 Years	Not Funded	$3,304,000	Pulaski	3	1
WX21147022	MCWD – New Pine Knot & Marshes Sidings Storage Tanks	3-5 Years	Not Funded	$4,596,000	McCreary	4	2
WX21199122	Green Hill Estate, Cedar Hill Heights, & Old Schoolhouse Road Water Line Replacement & Improvements	3-5 Years	Not Funded	$1,039,000	Pulaski	5	1
WX21217018	Campbellsville – Taylor County Scattered Sites – Phase 3	3-5 Years	Not Funded	$2,074,615	Taylor	6	2
			Total Cost:	**$12,266,215**			

Adair County

- 2010 census population of 18,656 (8,568 households) with 90% serviceable.
- Projected 2020 population of 20,052 (change of 1,396).
- Adair County has 531.17 miles of existing water lines.
- 73.00 miles of line extensions proposed in the next 10 years.
- 17.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $16,393,215.
- There are no projects planned from 6 to 10 years.



Adair County has a 2010 census population count of 18,656 (8,568 households) with a projected 2020 population count of 20,052 (8,151 households). Public water is currently available to approximately 90 percent of the county's households based on 2010 census counts. Over the next ten years approximately 170 serviceable households will be added through the construction of 73.00 miles of water line extensions and approximately 467 instances of improved service through the rehabilitation of 17.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Adair County Water District	5	$13,499,600	169	467	72.00	17.00	-
City of Campbellsville	1	$2,074,615	1	-	1.00	-	-
East Casey County Water District	1	$819,000	-	-	-	-	-
Totals:	**7**	**$16,393,215**	**170**	**467**	**73.00**	**17.00**	**-**

Community Drinking Water Systems in Adair County

Note: Serviceability counts are for households within Adair county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0010702	Columbia/Adair Utilities District	Adair	16,627	7,563
KY0230556	East Casey County Water District	Casey	50	14
KY1040210	Jamestown Utilities	Russell	144	76
KY1090060	Campbellsville Municipal Water & Sewer System	Taylor	82	37
		Totals:	16,903	7,690

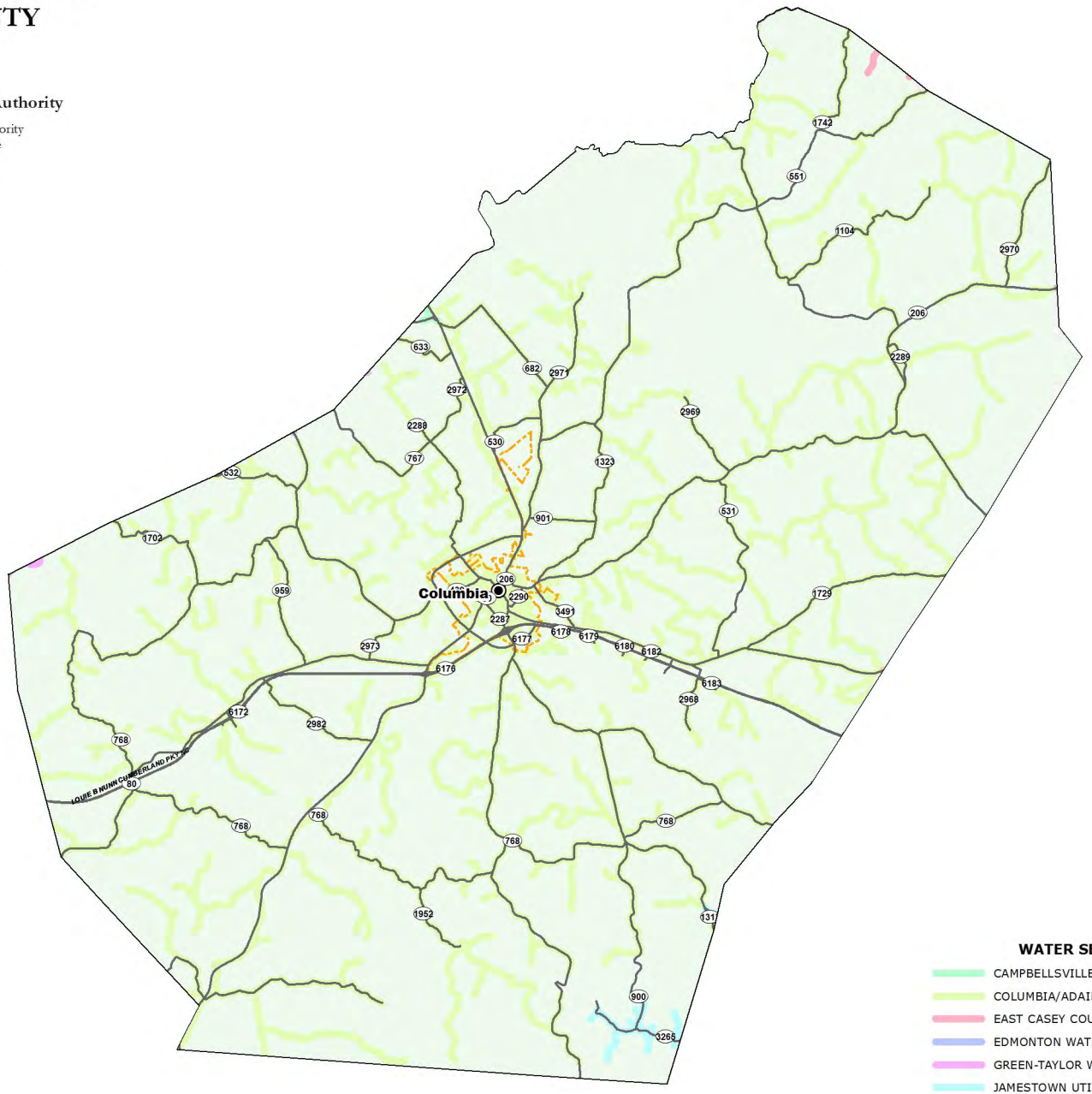
WATER SERVICE AREAS
ADAIR COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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January, 2013

Water Resource Information System



WATER SERVICE BY OWNER

- CAMPBELLSVILLE MUNICIPAL WATER & SEWER SYSTEM
- COLUMBIA/ADAIR UTILITIES DISTRICT
- EAST CASEY COUNTY WATER DISTRICT
- EDMONTON WATER WORKS
- GREEN-TAYLOR WATER DISTRICT
- JAMESTOWN UTILITIES
- RUSSELL SPRINGS SEWER & WATER WORKS

System Summary for Columbia/Adair County Water Commission

PWSID	KY0011016	Treats Water	Yes, 1 plant with total capacity of 5.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Regional Water Commission	Groundwater Source	No
Employees	5	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	No
Outside Mun. Cost	-	Total Connections	
Residential Customers	-	Total Produced (MG)	586.172
Commercial Customers	-	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	12.000
Industrial Customers	-	Total Wholesale Sold (MG)	401.925
Wholesale Customers	1	Estimated Pct. Water Loss	29%
Total Distribution System Line Length = 0.77 miles (Distribution: 0.00 miles, Transmission: 0.77 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Columbia/Adair County Water Commission

System Summary for Columbia/Adair Utilities District

PWSID	KY0010702	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	15	Wholesale Purchaser	Yes, from 4 providers.
Non-Municipal Cost	$33.90 per 4,000 gallons.	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 9 tanks with total capacity of 3.000 MG.
Outside Mun. Cost	-	Total Connections	7,940
Residential Customers	7,391	Total Produced (MG)	-
Commercial Customers	548	Total Purchased (MG)	439.513
Institutional Customers	-	Total Inside Usage (MG)	501.733
Industrial Customers	-	Total Wholesale Sold (MG)	14.000
Wholesale Customers	2	Estimated Pct. Water Loss	-17%

Total Distribution System Line Length = 525.64 miles (Distribution: 524.40 miles, Transmission: 1.24 miles).

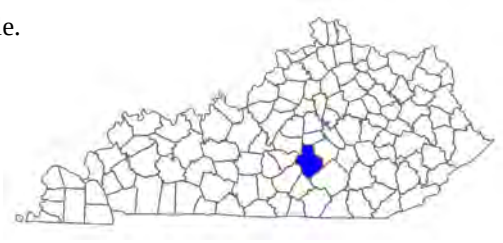
MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Columbia/Adair Utilities District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21001001	Columbia/Adair Utilities District-Downtown Water System Improvements Phase 2	3-5 Years	Not Funded	$4,100,000	Adair		
WX21001025	Adair County Phase II Water System Extensions & Improvements	3-5 Years	Partially Funded	$3,439,000	Adair		
WX21001007	Adair High Capacity Distribution System	3-5 Years	Not Funded	$2,971,600	Adair		
WX21001027	Water System Improvements: Fairplay Community/Green River Lake	3-5 Years	Not Funded	$2,461,000	Adair		
WX21001026	Columbia Water Tank Renovation	3-5 Years	Not Funded	$528,000	Adair		

Casey County

- 2010 census population of 15,955 (7,487 households) with 98% serviceable.
- Projected 2020 population of 16,433 (change of 478).
- Casey County has 649.01 miles of existing water lines.
- There are no line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- 5.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $1,119,000.
- Estimated funding needs for projects from 6 to 10 years: $7,000,000.



Casey County has a 2010 census population count of 15,955 (7,487 households) with a projected 2020 population count of 16,433 (6,791 households). Public water is currently available to approximately 98 percent of the county's households based on 2010 census counts. Over the next ten years. 5.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Liberty	1	$7,000,000	-	-	-	-	-
East Casey County Water District	2	$1,119,000	-	-	-	-	5.00
Totals:	**3**	**$8,119,000**	**-**	**-**	**-**	**-**	**5.00**

Community Drinking Water Systems in Casey County

Note: Serviceability counts are for households within Casey county only.

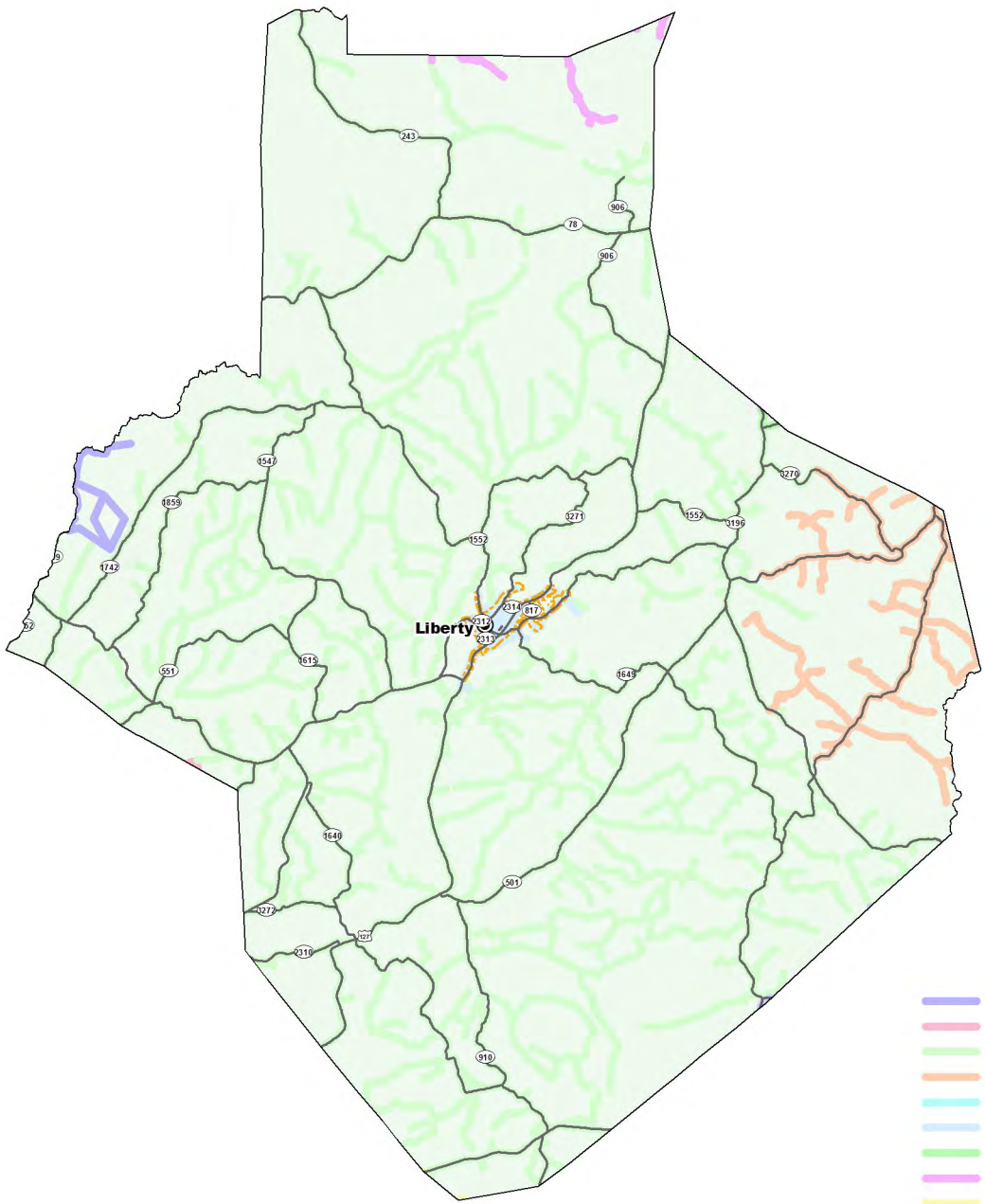
PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0230556	East Casey County Water District	Casey	11,951	5,704
KY0230987	Liberty Water & Gas	Casey	2,303	1,003
KY0110345	Parksville Water District	Boyle	81	43
KY1000124	Eubank Water System	Pulaski	1,125	493
KY1090060	Campbellsville Municipal Water & Sewer System	Taylor	67	32
		Totals:	15,527	7,275

WATER SERVICE AREAS
CASEY COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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January, 2013



System Summary for East Casey County Water District

PWSID	KY0230556	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	9	Wholesale Purchaser	Yes, from 4 providers.
Non-Municipal Cost	$30.80 per 4,000 gallons.	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 7 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	4,545
Residential Customers	4,464	Total Produced (MG)	-
Commercial Customers	65	Total Purchased (MG)	258.257
Institutional Customers	-	Total Inside Usage (MG)	201.516
Industrial Customers	6	Total Wholesale Sold (MG)	0.944
Wholesale Customers	1	Estimated Pct. Water Loss	22%
Total Distribution System Line Length = 559.64 miles (Distribution: 559.64 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for East Casey County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21045010	ECCWD-East Casey/Adair Co WD Interconnection	3-5 Years	Not Funded	$819,000	Casey		
WX21045015	ECCWD - Phase 2 Automated Meters	3-5 Years	Not Funded	$300,000	Casey		

System Summary for Liberty Water & Gas

PWSID	KY0230987	Treats Water	Yes, 1 plant with total capacity of 2.000 MGD.
System Type	Community	Surface Source	Yes, 2 sources.
Owner Type	Incorporated City	Groundwater Source	No
Employees	9	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$23.05 per 4,000 gallons.	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$29.26 per 4,000 gallons.	Total Connections	995
Residential Customers	774	Total Produced (MG)	333.778
Commercial Customers	219	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	62.518
Industrial Customers	1	Total Wholesale Sold (MG)	190.968
Wholesale Customers	1	Estimated Pct. Water Loss	24%
Total Distribution System Line Length = 29.22 miles (Distribution: 25.65 miles, Transmission: 3.57 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Liberty Water & Gas

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21045005	Liberty – Moccasin Creek Water Supply Reservoir & Auxiliary Inta	6-10 Years	Not Funded	$7,000,000	Casey		

Clinton County



- 2010 census population of 10,272 (5,311 households) with 98% serviceable.
- Projected 2020 population of 10,896 (change of 624).
- Clinton County has 338.43 miles of existing water lines.
- There are no line extensions proposed in the next 10 years.
- 4.00 miles of line rehabilitation proposed in the next 10 years.
- 12.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $2,073,000.
- Estimated funding needs for projects from 6 to 10 years: $2,927,700.

Clinton County has a 2010 census population count of 10,272 (5,311 households) with a projected 2020 population count of 10,896 (4,755 households). Public water is currently available to approximately 98 percent of the county's households based on 2010 census counts. Over the next ten years approximately 3,276 instances of improved service through the rehabilitation of 4.00 miles of existing water lines and other appurtenances. 12.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Albany	4	$5,000,700	-	3,276	-	4.00	12.00
Totals:	**4**	**$5,000,700**	**-**	**3,276**	**-**	**4.00**	**12.00**

Community Drinking Water Systems in Clinton County

Note: Serviceability counts are for households within Clinton county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0270003	Albany Municipal Water & Sewer	Clinton	9,889	5,104
KY0290271	Cumberland County Water District	Cumberland	115	62
KY1160291	Monticello Utility Commission	Wayne	30	14
		Totals:	10,034	5,180

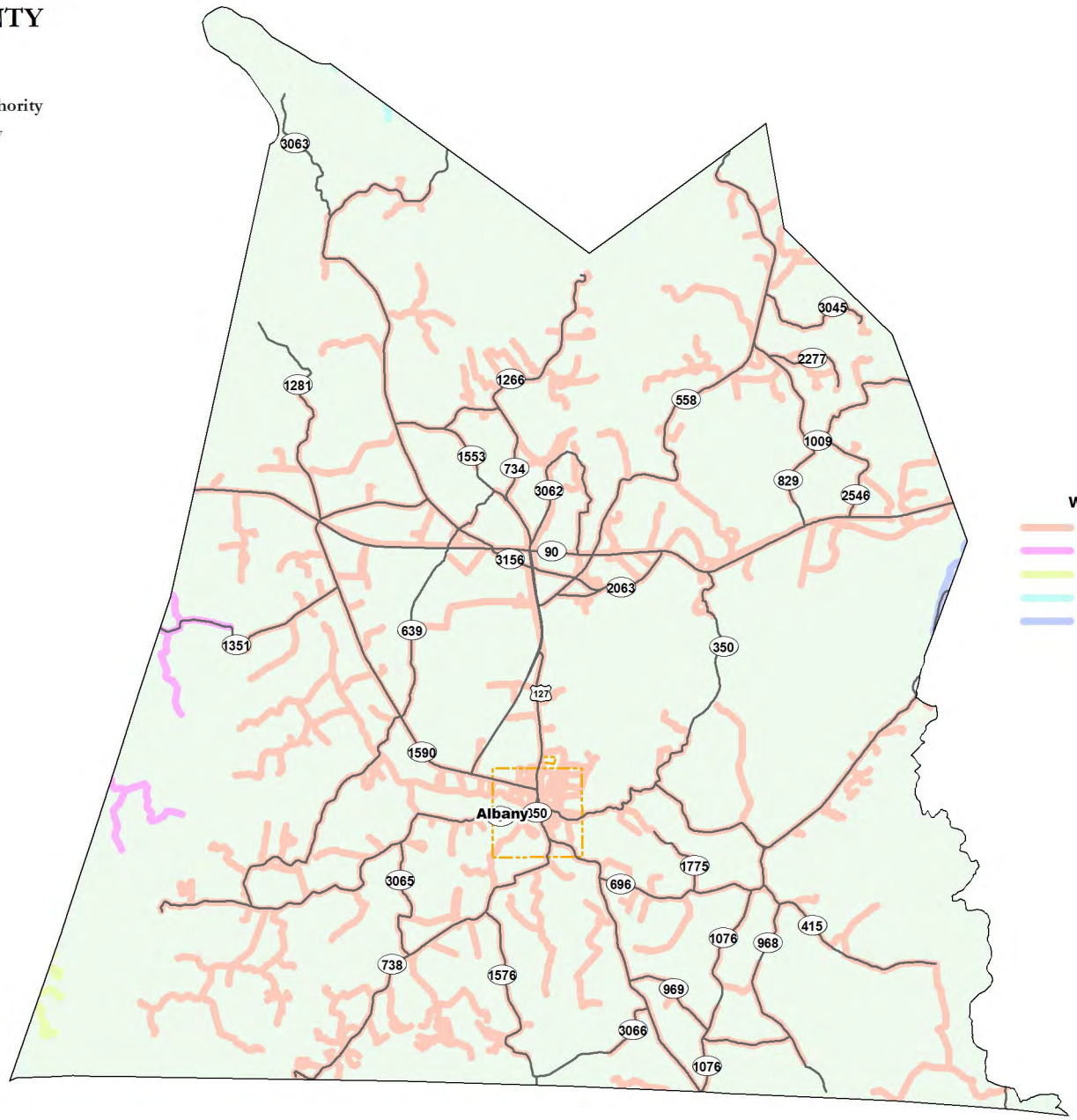
WATER SERVICE AREAS
CLINTON COUNTY
Kentucky

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January, 2013

Water Resource Information System



System Summary for Albany Municipal Water & Sewer

PWSID	KY0270003	Treats Water	Yes, 2 plants with total capacity of 4.900 MGD.
System Type	Community	Surface Source	Yes, 2 sources.
Owner Type	Incorporated City	Groundwater Source	No
Employees	16	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$17.54 per 4,000 gallons.	Storage Capacity	Yes, 5 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	$24.05 per 4,000 gallons.	Total Connections	5,525
Residential Customers	5,462	Total Produced (MG)	1,336.966
Commercial Customers	-	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	938.540
Industrial Customers	-	Total Wholesale Sold (MG)	81.189
Wholesale Customers	1	Estimated Pct. Water Loss	24%
Total Distribution System Line Length = 326.59 miles (Distribution: 312.91 miles, Transmission: 13.68 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Albany Municipal Water & Sewer

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21053010	Albany - Water Treatment Plant Expansion & Improvements	6-10 Years	Not Funded	$2,500,000	Clinton		
WX21053004	Albany – Albany Bypass Water Transmission Main	3-5 Years	Not Funded	$1,929,000	Clinton		
WX21053002	Albany Municipal Waterflow Improvements Project	6-10 Years	Not Funded	$427,700	Clinton		
WX21053009	Albany Water System Master Meters	3-5 Years	Not Funded	$144,000	Clinton		

Cumberland County

- 2010 census population of 6,856 (3,690 households) with 96% serviceable.
- Projected 2020 population of 6,649 (change of -207).
- Cumberland County has 338.59 miles of existing water lines.
- 26.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- 2.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $3,755,600.
- Estimated funding needs for projects from 6 to 10 years: $255,000.



Cumberland County has a 2010 census population count of 6,856 (3,690 households) with a projected 2020 population count of 6,649 (2,840 households). Public water is currently available to approximately 96 percent of the county's households based on 2010 census counts. Over the next ten years approximately 31 serviceable households will be added through the construction of 26.00 miles of water line extensions and approximately 200 instances of improved service through system wide upgrades. 2.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Burkesville	1	$811,600	2	200	2.00	-	-
Cumberland County Water District	4	$3,199,000	29	-	24.00	-	2.00
Totals:	**5**	**$4,010,600**	**31**	**200**	**26.00**	**-**	**2.00**

Community Drinking Water Systems in Cumberland County

Note: Serviceability counts are for households within Cumberland county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0290049	Burkesville Municipal Water Works	Cumberland	1,909	951
KY0290271	Cumberland County Water District	Cumberland	4,588	2,519
KY0860150	Monroe County Water District	Monroe	44	25
		Totals:	6,541	3,495

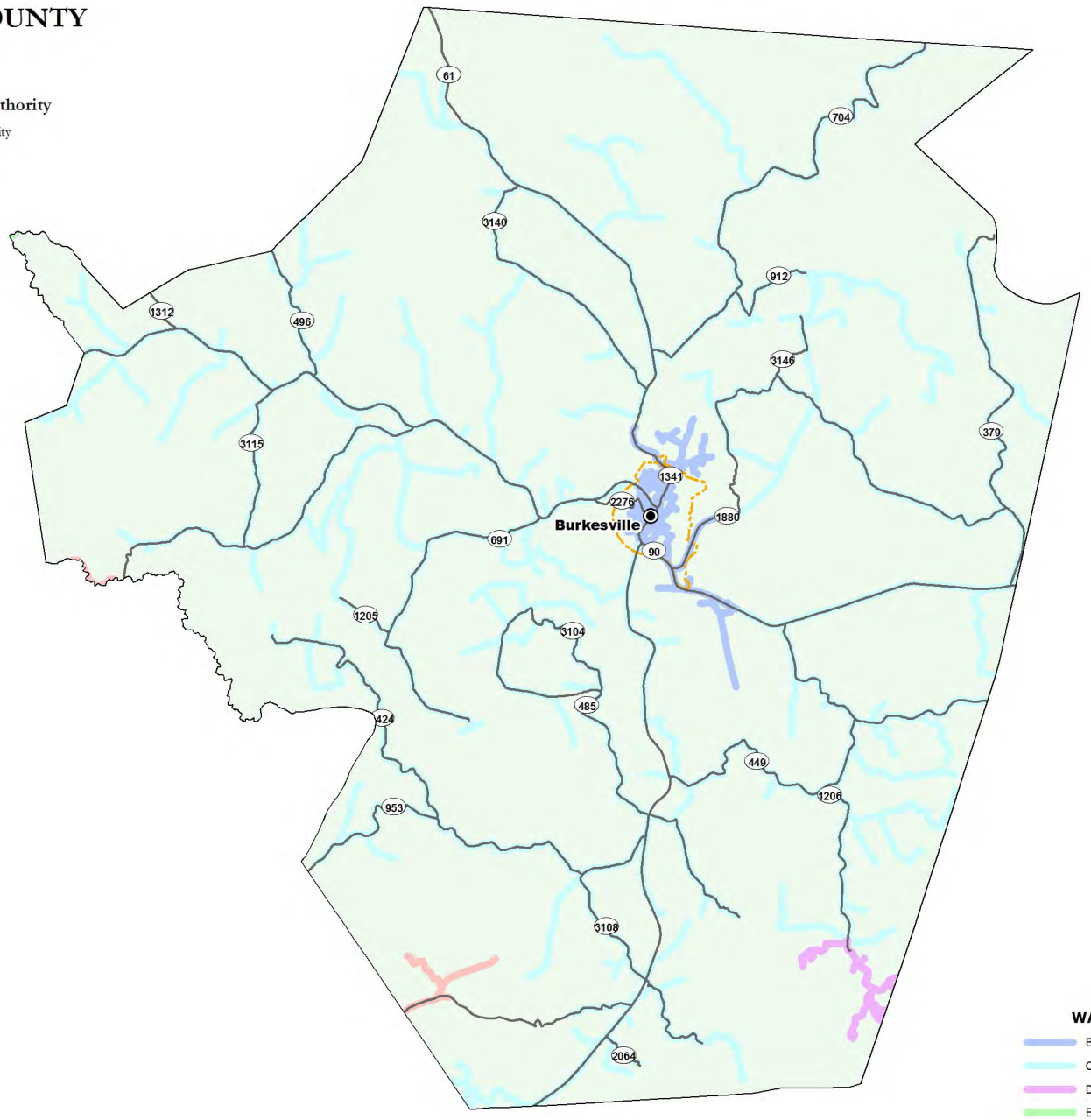
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Kentucky

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Water Resource Information System



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WATER SERVICE BY OWNER

- BURKESVILLE MUNICIPAL WATER WORKS
- CUMBERLAND COUNTY WATER DISTRICT
- DALE HOLLOW LAKE STATE RESORT PARK
- EDMONTON WATER WORKS
- MONROE COUNTY WATER DISTRICT

System Summary for Burkesville Municipal Water Works

PWSID	KY0290049	Treats Water	Yes, 1 plant with total capacity of 2.160 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	6	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$29.66 per 4,000 gallons.	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$43.25 per 4,000 gallons.	Total Connections	833
Residential Customers	676	Total Produced (MG)	197.003
Commercial Customers	153	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	50.709
Industrial Customers	3	Total Wholesale Sold (MG)	79.291
Wholesale Customers	1	Estimated Pct. Water Loss	34%
Total Distribution System Line Length = 33.54 miles (Distribution: 33.26 miles, Transmission: 0.27 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Burkesville Municipal Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21057017	KY S.R. 61 Water Distribution Extension	3-5 Years	Not Funded	$811,600	Cumberland		
WX21057018	Burkesville Interconnection (North Highway 61)	3-5 Years	Not Funded	$185,000	Cumberland		

System Summary for Cumberland County Water District

PWSID	KY0290271	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	7	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	$42.00 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 5 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	2,497
Residential Customers	2,450	Total Produced (MG)	-
Commercial Customers	41	Total Purchased (MG)	160.479
Institutional Customers	-	Total Inside Usage (MG)	131.735
Industrial Customers	5	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	18%

Total Distribution System Line Length = 307.57 miles (Distribution: 305.58 miles, Transmission: 1.99 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Cumberland County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21171045	Monroe County Water District - New Regional Water Treatment Plant and Water System Improvements	3-5 Years	Partially Funded	$12,412,000	Monroe	1	1
WX21057016	CCWD - Improvements and Extensions	3-5 Years	Not Funded	$1,509,000	Cumberland		
WX21057012	CCWD – Burkesville Interconnection and Water Storage Tank Replac	3-5 Years	Not Funded	$1,250,000	Cumberland		
WX21057019	CCWD - Radio Telemetry Communications System	3-5 Years	Not Funded	$358,000	Cumberland		
WX21057004	Zeketown Road Water Line Extension	6-10 Years	Not Funded	$255,000	Cumberland		
WX21057018	Burkesville Interconnection (North Highway 61)	3-5 Years	Not Funded	$185,000	Cumberland		

Green County

- 2010 census population of 11,258 (5,324 households) with 98% serviceable.
- Projected 2020 population of 11,112 (change of -146).
- Green County has 448.01 miles of existing water lines.
- 13.00 miles of line extensions proposed in the next 10 years.
- 7.00 miles of line rehabilitation proposed in the next 10 years.
- 4.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $5,173,900.
- Estimated funding needs for projects from 6 to 10 years: $1,394,000.



Green County has a 2010 census population count of 11,258 (5,324 households) with a projected 2020 population count of 11,112 (4,660 households). Public water is currently available to approximately 98 percent of the county's households based on 2010 census counts. Over the next ten years approximately 17 serviceable households will be added through the construction of 13.00 miles of water line extensions and approximately 108 instances of improved service through the rehabilitation of 7.00 miles of existing water lines and other appurtenances. 4.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Campbellsville	1	$3,181,900	-	-	-	-	4.00
Green-Taylor Water District	4	$3,386,000	17	108	13.00	7.00	-
Totals:	**5**	**$6,567,900**	**17**	**108**	**13.00**	**7.00**	**4.00**

Community Drinking Water Systems in Green County

Note: Serviceability counts are for households within Green county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0440167	Green-Taylor Water District	Green	7,810	3,650
KY0440168	Greensburg Water Department	Green	2,284	1,138
KY0500166	Green River Valley Water District	Hart	888	413
		Totals:	10,982	5,201

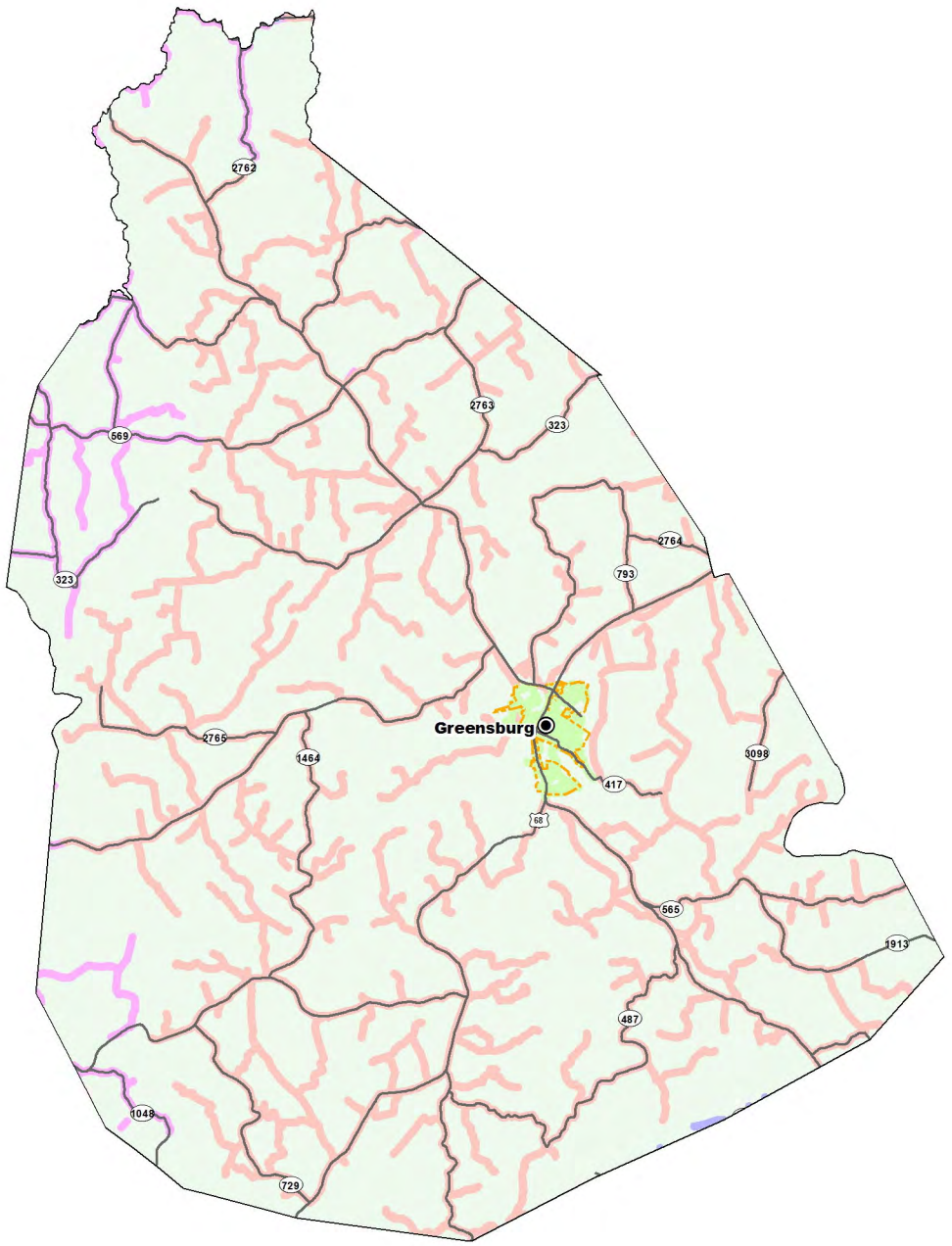
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GREEN COUNTY
Kentucky

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January, 2013

Water Resource Information System



WATER SERVICE BY OWNER

- COLUMBIA/ADAIR UTILITIES DISTRICT
- GREEN RIVER VALLEY WATER DISTRICT
- GREEN-TAYLOR WATER DISTRICT
- GREENSBURG WATER DEPARTMENT
- LARUE COUNTY WATER DISTRICT #1

System Summary for Green-Taylor Water District

PWSID	KY0440167	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	10	Wholesale Purchaser	Yes, from 3 providers.
Non-Municipal Cost	$30.70 per 4,000 gallons.	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 6 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	5,082
Residential Customers	5,027	Total Produced (MG)	-
Commercial Customers	51	Total Purchased (MG)	363.564
Institutional Customers	-	Total Inside Usage (MG)	325.816
Industrial Customers	-	Total Wholesale Sold (MG)	4.996
Wholesale Customers	1	Estimated Pct. Water Loss	9%

Total Distribution System Line Length = 496.72 miles (Distribution: 495.52 miles, Transmission: 1.21 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Green-Taylor Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21099029	GRVWD - Water Treatment Plant Expansion	0-2 Years	Not Funded	$12,000,000	Hart	21	3
WX21087007	Green-Taylor US 68 Tank & Water Main Upgrade	3-5 Years	Not Funded	$1,358,000	Green		
WX21087015	GTWD – Summersville 300,000 Gallon Storage Tank Project	6-10 Years	Not Funded	$750,000	Green		
WX21087002	Green County Scattered Sites Water Expansion #2	6-10 Years	Not Funded	$644,000	Green		
WX21217019	Green-Taylor - Taylor County Water Line Extension	3-5 Years	Not Funded	$634,000	Taylor		
WX21217024	Pine Road Water Line Extension	3-5 Years	Not Funded	$147,000	Taylor		

System Summary for Greensburg Water Department

PWSID	KY0440168	Treats Water	Yes, 1 plant with total capacity of 1.440 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	13	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$21.49 per 4,000 gallons.	Storage Capacity	Yes, 4 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$38.52 per 4,000 gallons.	Total Connections	975
Residential Customers	848	Total Produced (MG)	351.140
Commercial Customers	126	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	169.154
Industrial Customers	-	Total Wholesale Sold (MG)	214.329
Wholesale Customers	1	Estimated Pct. Water Loss	-9%
Total Distribution System Line Length = 28.89 miles (Distribution: 28.11 miles, Transmission: 0.78 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Greensburg Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21217004	Green County Connector to Campbellsville	3-5 Years	Not Funded	$3,181,900	Taylor		

McCreary County

- 2010 census population of 18,306 (7,507 households) with 84% serviceable.
- Projected 2020 population of 18,314 (change of 8).
- McCreary County has 335.37 miles of existing water lines.
- 24.00 miles of line extensions proposed in the next 10 years.
- 16.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $29,166,747.
- Estimated funding needs for projects from 6 to 10 years: $246,000.



McCreary County has a 2010 census population count of 18,306 (7,507 households) with a projected 2020 population count of 18,314 (6,819 households). Public water is currently available to approximately 84 percent of the county's households based on 2010 census counts. Over the next ten years approximately 174 serviceable households will be added through the construction of 24.00 miles of water line extensions and approximately 12,030 instances of improved service through the rehabilitation of 16.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
McCreary County Water District	22	$28,622,727	173	12,030	24.00	16.00	-
Whitley County Water District	1	$790,020	1	-	-	-	-
Totals:	**23**	**$29,412,747**	**174**	**12,030**	**24.00**	**16.00**	**-**

Community Drinking Water Systems in McCreary County

Note: Serviceability counts are for households within McCreary county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0740276	McCreary County Water District	McCreary	14,871	6,264
		Totals:	14,871	6,264

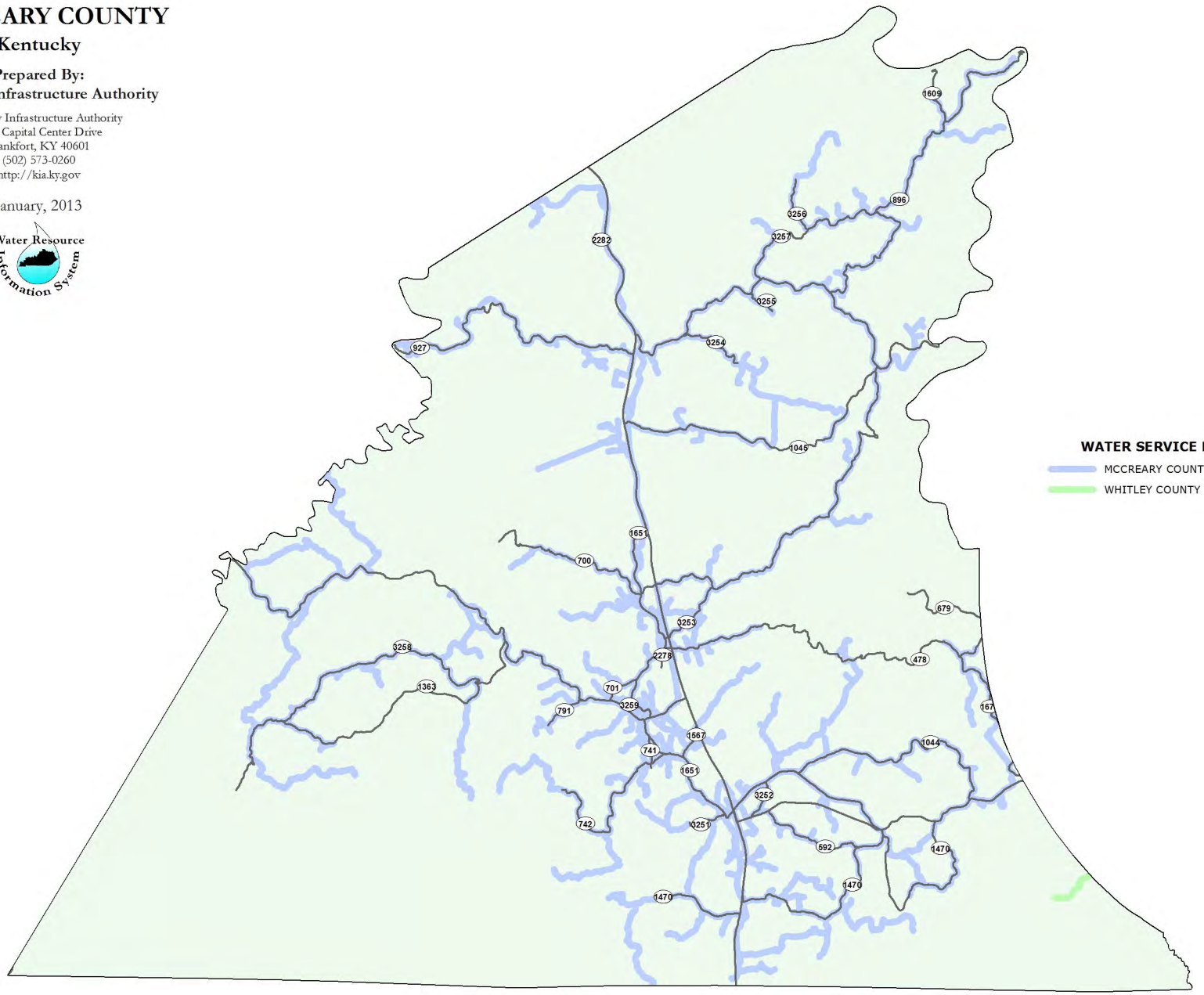
WATER SERVICE AREAS
MCCREARY COUNTY
Kentucky

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January, 2013

Water Resource Information System



System Summary for McCreary County Water District

PWSID	KY0740276	Treats Water	Yes, 2 plants with total capacity of 6.000 MGD.
System Type	Community	Surface Source	Yes, 2 sources.
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	18	Wholesale Purchaser	No
Non-Municipal Cost	$29.85 per 4,000 gallons.	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 11 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	-	Total Connections	7,252
Residential Customers	5,696	Total Produced (MG)	584.387
Commercial Customers	254	Total Purchased (MG)	-
Institutional Customers	1	Total Inside Usage (MG)	498.461
Industrial Customers	6	Total Wholesale Sold (MG)	6.036
Wholesale Customers	1	Estimated Pct. Water Loss	14%
Total Distribution System Line Length = 333.69 miles (Distribution: 316.47 miles, Transmission: 17.22 miles).			

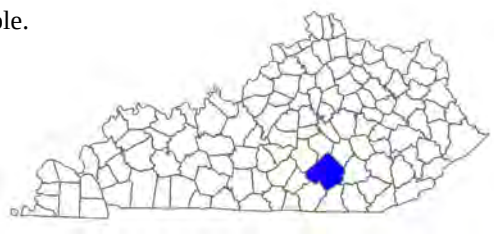
MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for McCreary County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21147023	MCWD – Emergency Water Plant Power Supply	3-5 Years	Partially Funded	$1,072,000	McCreary	1	1
WX21147022	MCWD – New Pine Knot & Marshes Sidings Storage Tanks	3-5 Years	Not Funded	$4,596,000	McCreary	4	2
WX21147003	MCWD - Water Treatment Plant No. 1 Upgrades	3-5 Years	Not Funded	$3,763,000	McCreary		
WX21147033	MCWD - Marshes Siding 1.0 MG Storage Tank	3-5 Years	Not Funded	$2,800,000	McCreary		
WX21147032	KY 92 Water Line Replacement & Pump Station Replacement & Upgrad	3-5 Years	Not Funded	$2,084,000	McCreary		
WX21147031	McCreary County Water District Radio Read Meter System	3-5 Years	Not Funded	$1,981,000	McCreary		
WX21147029	MCWD – Raw Water Pumps & WTP No. 1 Improvements	3-5 Years	Not Funded	$1,860,000	McCreary		
WX21147027	MCWD-Water Treatment Plant No.1 Improvements/Upgrades	0-2 Years	Not Funded	$1,845,000	McCreary		
WX21147011	McCreary County Water District - Raw Water Intake	3-5 Years	Partially Funded	$1,520,000	McCreary		
WX21147018	MCCWD – WTP 10-Inch DI Water Main Replacement	3-5 Years	Not Funded	$1,219,000	McCreary		
WX21147015	MCCWD – Stearns to Smithtown/Tunnel Ridge Road Water Main Replacement Project	3-5 Years	Not Funded	$1,218,000	McCreary		
WX21147008	McCreary County Water District - County Water Extensions & Upgrades	3-5 Years	Partially Funded	$1,081,025	McCreary		
WX21147012	MCWD-Cumberland Falls State Park & Riverwoods Environmental Education Center	3-5 Years	Not Funded	$997,702	McCreary		
WX21147019	MCCWD –Whitley City Water Main Replacement – Pipe Bursting Project	3-5 Years	Not Funded	$746,000	McCreary		
WX21147028	MCWD-Ky Hwy. 92/Smithtown Waterline Improvements	3-5 Years	Not Funded	$690,000	McCreary		
WX21147030	MCWD - Water Line Extensions	3-5 Years	Not Funded	$445,000	McCreary		
WX21147020	MCCWD – Strunk Ridge Road Water Main Replacement Project	3-5 Years	Not Funded	$174,000	McCreary		
WX21147025	MCWD – Flat Rock Road Water Main Extension Project In Pine Knot	6-10 Years	Partially Funded	$150,000	McCreary		

Pulaski County

- 2010 census population of 63,063 (31,443 households) with 97% serviceable.
- Projected 2020 population of 71,036 (change of 7,973).
- Pulaski County has 1,410.84 miles of existing water lines.
- 50.00 miles of line extensions proposed in the next 10 years.
- 43.00 miles of line rehabilitation proposed in the next 10 years.
- 26.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $35,439,800.
- Estimated funding needs for projects from 6 to 10 years: $3,897,394.



Pulaski County has a 2010 census population count of 63,063 (31,443 households) with a projected 2020 population count of 71,036 (29,901 households). Public water is currently available to approximately 97 percent of the county's households based on 2010 census counts. Over the next ten years approximately 59 serviceable households will be added through the construction of 50.00 miles of water line extensions and approximately 20,306 instances of improved service through the rehabilitation of 43.00 miles of existing water lines and other appurtenances. 26.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Bronston Water Association Inc	3	$2,393,000	-	329	-	8.00	1.00
City of Burnside	10	$3,393,000	-	3,016	-	4.00	-
City of Eubank	5	$2,620,800	1	4,983	1.00	5.00	7.00
City of Russell Springs	1	$831,000	16	-	2.00	-	-
City of Science Hill	4	$3,956,885	28	319	34.00	7.00	-
City of Somerset	2	$7,725,000	-	8,856	1.00	1.00	-
South Eastern Water Association Inc	8	$7,468,509	9	1,223	11.00	12.00	5.00
Western Pulaski County Water District	5	$10,949,000	5	1,580	1.00	6.00	13.00
Totals:	**38**	**$39,337,194**	**59**	**20,306**	**50.00**	**43.00**	**26.00**

Community Drinking Water Systems in Pulaski County

Note: Serviceability counts are for households within Pulaski county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY1000043	Bronston Water Association	Pulaski	2,359	1,533
KY1000050	Burnside Municipal Water Works	Pulaski	1,165	678
KY1000124	Eubank Water System	Pulaski	4,640	2,026
KY1000362	Science Hill Water Works	Pulaski	4,756	2,055
KY1000403	Somerset Utilities	Pulaski	17,104	8,273
KY1000311	Southeastern Water Association	Pulaski	14,983	8,016
KY1000363	Western Pulaski County Water District	Pulaski	15,878	7,426
KY1000973	Woodson Bend Property Owners Association	Pulaski	149	371
KY1020891	Western Rockcastle Water Association	Rockcastle	335	162
		Totals:	61,369	30,540

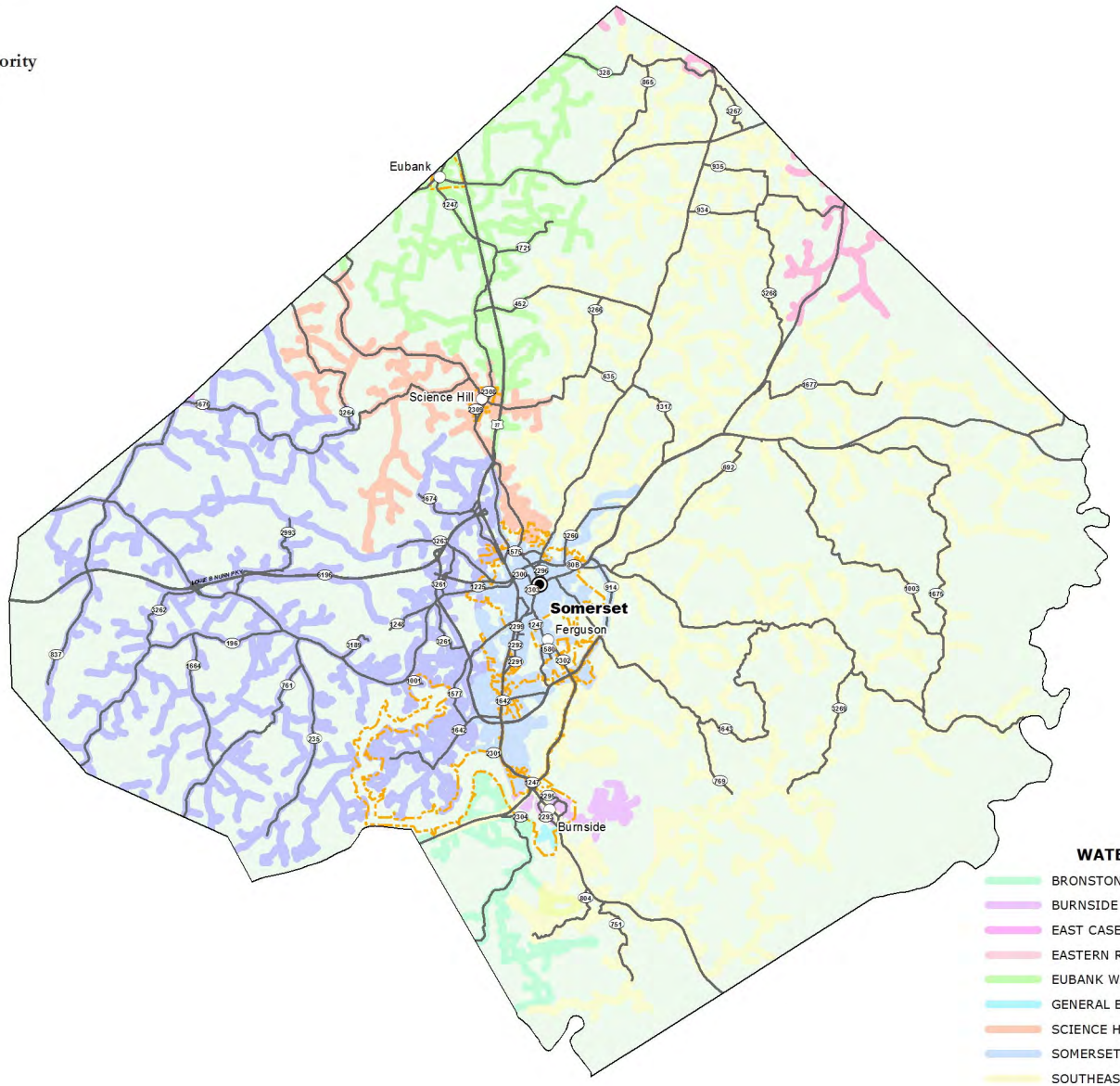
WATER SERVICE AREAS
PULASKI COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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January, 2013

Water Resource Information System



System Summary for Bronston Water Association

PWSID	KY1000043	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water Association	Groundwater Source	No
Employees	4	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$38.09 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	1,785
Residential Customers	1,715	Total Produced (MG)	-
Commercial Customers	70	Total Purchased (MG)	85.596
Institutional Customers	-	Total Inside Usage (MG)	70.187
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	18%

Total Distribution System Line Length = 76.71 miles (Distribution: 76.71 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Bronston Water Association

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21199122	Green Hill Estate, Cedar Hill Heights, & Old Schoolhouse Road Water Line Replacement & Improvements	3-5 Years	Not Funded	$1,039,000	Pulaski	5	1
WX21231014	Monticello Water Treatment Plant Improvements	3-5 Years	Partially Funded	$11,246,000	Wayne		
WX21199097	Bronston – 500K Gallon Ground Water Storage Tank Replacement & W	3-5 Years	Not Funded	$801,000	Pulaski		
WX21199092	Bronston – Waitsboro Area & Colyer Rd Waterline Improvements	3-5 Years	Not Funded	$553,000	Pulaski		

System Summary for Burnside Municipal Water Works

PWSID	KY1000050	Treats Water	Yes, 1 plant with total capacity of 0.288 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	3	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$38.50 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	$47.79 per 4,000 gallons.	Total Connections	631
Residential Customers	576	Total Produced (MG)	55.700
Commercial Customers	39	Total Purchased (MG)	7.824
Institutional Customers	-	Total Inside Usage (MG)	36.710
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	42%

Total Distribution System Line Length = 28.28 miles (Distribution: 28.21 miles, Transmission: 0.07 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Burnside Municipal Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21199073	Burnside-Phase VI Waterline Improvements (Revised)	3-5 Years	Not Funded	$746,000	Pulaski		
WX21199048	Burnside – Phase IV Elevated Water Tank	6-10 Years	Not Funded	$611,000	Pulaski		
WX21199111	Burnside/Main Street (US 27) Waterline Replacement	3-5 Years	Not Funded	$591,000	Pulaski		
WX21199074	Burnside - WTP Repairs - Revised	3-5 Years	Not Funded	$440,000	Pulaski		
WX21199113	Burnside/West Lakeshore Drive (Pharmacy at US 27 to W. French) W	3-5 Years	Not Funded	$274,000	Pulaski		
WX21199112	Burnside/East Lakeshore Drive Waterline Replacement	3-5 Years	Not Funded	$210,000	Pulaski		
WX21199114	Burnside/West Lakeshore Dr. Waterline Replacement	3-5 Years	Not Funded	$197,000	Pulaski		
WX21199087	Burnside–E. French Ave. Water Project	3-5 Years	Not Funded	$170,000	Pulaski		
WX21199051	Burnside – Tank Cleaning & Painting Project	3-5 Years	Not Funded	$111,000	Pulaski		
WX21199110	Burnside/Boland Dr. Waterline Replacement	3-5 Years	Not Funded	$43,000	Pulaski		

System Summary for Eubank Water System

PWSID	KY1000124	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	5	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$34.51 per 4,000 gallons.	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 4 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	4,269
Residential Customers	4,158	Total Produced (MG)	-
Commercial Customers	109	Total Purchased (MG)	296.300
Institutional Customers	-	Total Inside Usage (MG)	212.818
Industrial Customers	-	Total Wholesale Sold (MG)	26.558
Wholesale Customers	1	Estimated Pct. Water Loss	19%

Total Distribution System Line Length = 267.59 miles (Distribution: 262.90 miles, Transmission: 4.68 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Eubank Water System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21137047	Waynesburg Water Line Replacement (KY HWY 328)	0-2 Years	Not Funded	$85,000	Lincoln	31	6
WX21199098	City of Eubank – Phase III – New Water Transmission Line	3-5 Years	Not Funded	$1,866,000	Pulaski		
WX21199106	Water Meter Replacement Project	3-5 Years	Not Funded	$357,000	Pulaski		
WX21199115	Relocate Water Line from KY 501 Bridge at RR - Kings Mountain	3-5 Years	Not Funded	$302,000	Pulaski		
WX21199095	Eubank – Water Line Replacement (West Ridge Rd.)	6-10 Years	Not Funded	$273,800	Pulaski		
WX21199116	New 12" Transmission Water Line (Todds Road to New Tank)	3-5 Years	Not Funded	$205,000	Pulaski		
WX21199102	City of Eubank – Water Line Replacement Estesburg Road/KY 1721 A	3-5 Years	Not Funded	$199,000	Pulaski		
WX21137017	South Fishing Creek Waterline Extension	0-2 Years	Not Funded	$100,000	Lincoln		
WX21137041	North Fishing Creek Water Line Extension	0-2 Years	Not Funded	$100,000	Lincoln		
WX21137043	South Fishing Creek Water Line Extension	0-2 Years	Not Funded	$100,000	Lincoln		
WX21199041	City of Eubank Y2006 Water System Additions and Improvements	3-5 Years	Partially Funded	$77,000	Pulaski		
WX21137040	Tunnel Road Waterline Extension	0-2 Years	Not Funded	$20,000	Lincoln		

System Summary for Science Hill Water Works

PWSID	KY1000362	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	3	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$23.50 per 4,000 gallons.	Storage Capacity	Yes, 4 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$29.30 per 4,000 gallons.	Total Connections	2,102
Residential Customers	2,001	Total Produced (MG)	-
Commercial Customers	91	Total Purchased (MG)	156.717
Institutional Customers	1	Total Inside Usage (MG)	100.065
Industrial Customers	3	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	36%

Total Distribution System Line Length = 81.96 miles (Distribution: 81.69 miles, Transmission: 0.26 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Science Hill Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21199002	Oak Hill 3 MG Storage Tank, 10 MG Booster Station, & Transmission	3-5 Years	Not Funded	$7,600,000	Pulaski		
WX21199027	Science Hill 12" Transmission Main and Booster Pump Station	3-5 Years	Not Funded	$1,926,300	Pulaski		
WX21199001	Science Hill Water 0-2 Yr. Additions & Improvements	3-5 Years	Not Funded	$801,500	Pulaski		
WX21199014	Science Hill Water System 6-10 Yr. Additions/Improvements	6-10 Years	Not Funded	$679,085	Pulaski		
WX21199026	Science Hill Upgrade and Extension Project	3-5 Years	Not Funded	$550,000	Pulaski		

System Summary for Somerset Utilities

PWSID	KY1000403	Treats Water	Yes, 1 plant with total capacity of 16.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	25	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 4 purchasers.
Inside Mun. Cost	$16.84 per 4,000 gallons.	Storage Capacity	Yes, 6 tanks with total capacity of 5.000 MG.
Outside Mun. Cost	$25.25 per 4,000 gallons.	Total Connections	9,030
Residential Customers	6,795	Total Produced (MG)	2,755.290
Commercial Customers	2,129	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	574.804
Industrial Customers	16	Total Wholesale Sold (MG)	1,496.449
Wholesale Customers	4	Estimated Pct. Water Loss	25%
Total Distribution System Line Length = 164.93 miles (Distribution: 164.48 miles, Transmission: 0.45 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Somerset Utilities

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21199002	Oak Hill 3 MG Storage Tank, 10 MG Booster Station, & Transmission	3-5 Years	Not Funded	$7,600,000	Pulaski		
WX21199039	Somerset/Columbia St Water Distribution Rehabilitation	3-5 Years	Not Funded	$125,000	Pulaski		

System Summary for Southeastern Water Association

PWSID	KY1000311	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water Association	Groundwater Source	No
Employees	10	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$46.95 per 4,000 gallons.	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 11 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	7,626
Residential Customers	7,603	Total Produced (MG)	-
Commercial Customers	7	Total Purchased (MG)	510.092
Institutional Customers	-	Total Inside Usage (MG)	462.349
Industrial Customers	-	Total Wholesale Sold (MG)	7.824
Wholesale Customers	1	Estimated Pct. Water Loss	8%

Total Distribution System Line Length = 594.04 miles (Distribution: 591.75 miles, Transmission: 2.29 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Southeastern Water Association

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21199002	Oak Hill 3 MG Storage Tank, 10 MG Booster Station, & Transmission	3-5 Years	Not Funded	$7,600,000	Pulaski		
WX21199082	SWA – Bandy Area Water System Improvements	3-5 Years	Not Funded	$3,350,000	Pulaski		
WX21199120	KY 192 Water Line Reinforcement Project	6-10 Years	Not Funded	$1,220,009	Pulaski		
WX21199084	SWA – Sloans Valley Road Waterline Improvements	3-5 Years	Not Funded	$730,000	Pulaski		
WX21199022	System Reinforcements for Dahl-Elrod Road and KY 461 Areas	3-5 Years	Not Funded	$691,000	Pulaski		
WX21199117	KY 1003 - Providence Road Water Line Replacement Project	3-5 Years	Not Funded	$518,000	Pulaski		
WX21199118	KY 80 Water Line Replacement Project	3-5 Years	Not Funded	$380,000	Pulaski		
WX21199004	KY 1003 Waterline Replacement	3-5 Years	Not Funded	$297,000	Pulaski		
WX21199119	KY 192 Buck Creek Water Line Crossing Project	6-10 Years	Not Funded	$282,500	Pulaski		

System Summary for Western Pulaski County Water District

PWSID	KY1000363	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	11	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$25.98 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 8 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	8,135
Residential Customers	8,068	Total Produced (MG)	-
Commercial Customers	67	Total Purchased (MG)	533.340
Institutional Customers	-	Total Inside Usage (MG)	372.490
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	30%

Total Distribution System Line Length = 446.98 miles (Distribution: 446.98 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Western Pulaski County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21199123	Water System Improvements & Replacements	3-5 Years	Not Funded	$3,304,000	Pulaski	3	1
WX21199002	Oak Hill 3 MG Storage Tank, 10 MG Booster Station, & Transmission	3-5 Years	Not Funded	$7,600,000	Pulaski		
WX21199109	Big Clifty Creek Area Water Transmission Main & Improvements	3-5 Years	Not Funded	$3,079,000	Pulaski		
WX21199108	North water System Improvements & Extensions	3-5 Years	Not Funded	$2,283,000	Pulaski		
WX21199065	WPCWD – Green River Knob Water Storage Tank	3-5 Years	Not Funded	$1,600,000	Pulaski		
WX21199105	Hickory Nut Water Storage Tank Upgrade	3-5 Years	Not Funded	$683,000	Pulaski		

System Summary for Woodson Bend Property Owners Association

PWSID	KY1000973	Treats Water	Yes, 1 plant with total capacity of 0.140 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Investor-Owned (Private For-Profit)	Groundwater Source	No
Employees	3	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	491
Residential Customers	488	Total Produced (MG)	14.827
Commercial Customers	3	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	14.827
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	0%
Total Distribution System Line Length = 4.97 miles (Distribution: 4.74 miles, Transmission: 0.23 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Woodson Bend Property Owners Association

Russell County

- 2010 census population of 17,565 (9,993 households) with 97% serviceable.
- Projected 2020 population of 18,782 (change of 1,217).
- Russell County has 501.84 miles of existing water lines.
- 44.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- 5.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $7,247,062.
- Estimated funding needs for projects from 6 to 10 years: $1,642,823.



Russell County has a 2010 census population count of 17,565 (9,993 households) with a projected 2020 population count of 18,782 (8,112 households). Public water is currently available to approximately 97 percent of the county's households based on 2010 census counts. Over the next ten years approximately 93 serviceable households will be added through the construction of 44.00 miles of water line extensions and approximately 4 instances of improved service through system wide upgrades. 5.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Jamestown	11	$3,943,062	40	-	19.00	-	4.00
City of Russell Springs	3	$1,642,823	53	-	25.00	-	1.00
Western Pulaski County Water District	1	$3,304,000	-	4	-	-	-
Totals:	**15**	**$8,889,885**	**93**	**4**	**44.00**	**-**	**5.00**

Community Drinking Water Systems in Russell County

Note: Serviceability counts are for households within Russell county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY1040210	Jamestown Utilities	Russell	7,236	4,127
KY1040377	Russell Springs Sewer & Water Works	Russell	9,249	4,796
KY0010702	Columbia/Adair Utilities District	Adair	30	14
KY1000363	Western Pulaski County Water District	Pulaski	510	769
		Totals:	17,025	9,706

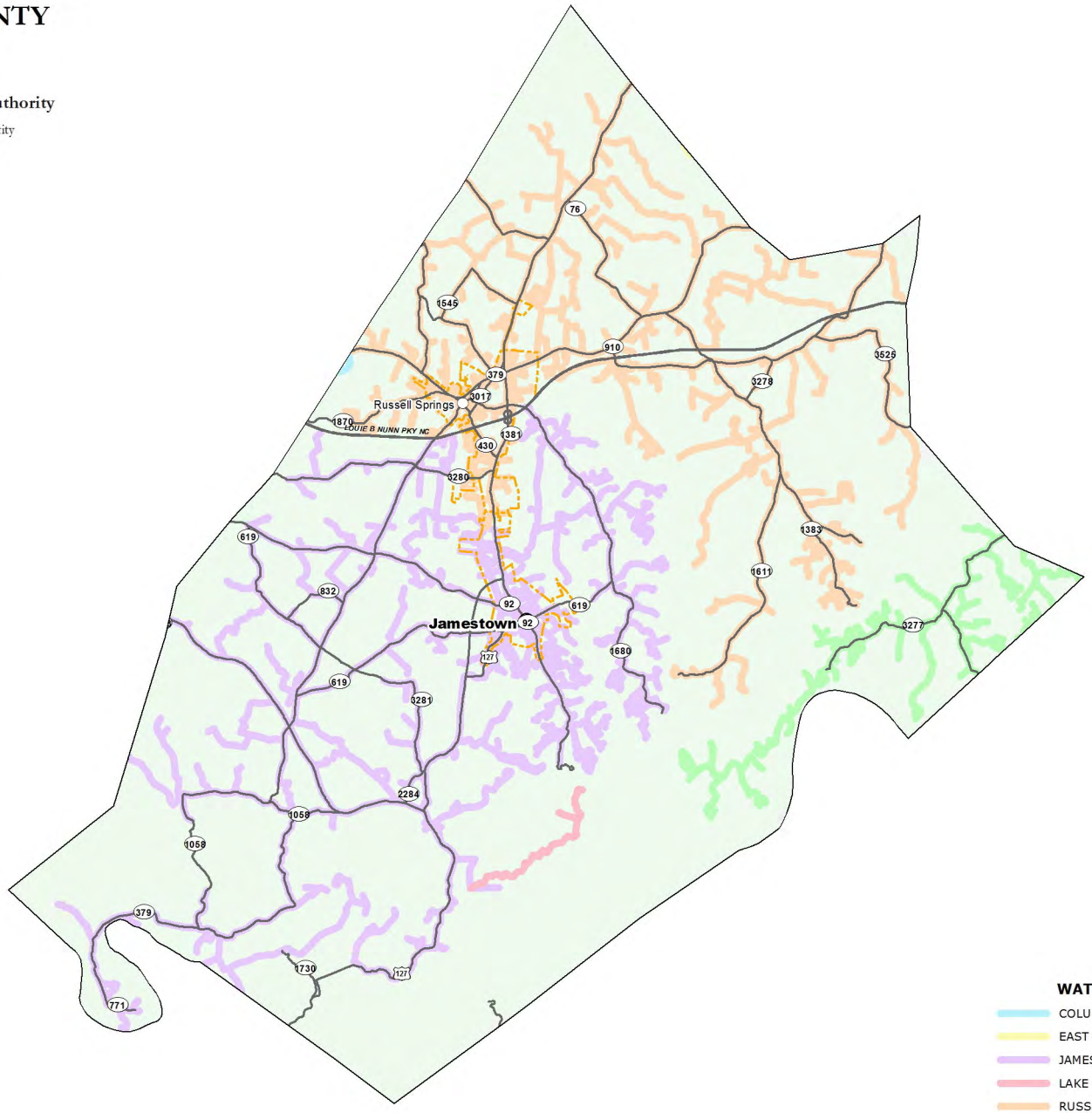
WATER SERVICE AREAS
RUSSELL COUNTY
Kentucky

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Kentucky Infrastructure Authority

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January, 2013

Water Resource Information System



System Summary for Jamestown Utilities

PWSID	KY1040210	Treats Water	Yes, 1 plant with total capacity of 5.500 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	10	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	$20.38 per 4,000 gallons.	Storage Capacity	Yes, 7 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	$27.33 per 4,000 gallons.	Total Connections	3,676
Residential Customers	3,547	Total Produced (MG)	1,339.611
Commercial Customers	139	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	795.012
Industrial Customers	7	Total Wholesale Sold (MG)	409.526
Wholesale Customers	2	Estimated Pct. Water Loss	10%

Total Distribution System Line Length = 247.77 miles (Distribution: 246.28 miles, Transmission: 1.49 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Jamestown Utilities

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21207009	Jamestown – Booster Pump Station Along US 127 South	3-5 Years	Partially Funded	$2,600,000	Russell		
WX21207015	Jamestown – Rose Crossroads Area	3-5 Years	Not Funded	$511,721	Russell		
WX21207016	Jamestown – Creelsboro Area	3-5 Years	Not Funded	$343,959	Russell		
WX21207019	Jamestown Utilities-Gum Corners Area Water System Extension	3-5 Years	Not Funded	$164,236	Russell		
WX21207022	Jamestown Utilities-Sewellton Area Water System Extension	3-5 Years	Not Funded	$77,485	Russell		
WX21207024	Jamestown Utilities-Todd Road Water System Extension	3-5 Years	Not Funded	$69,147	Russell		
WX21207018	Jamestown Utilities-Olga Area Water System Extension	3-5 Years	Not Funded	$53,284	Russell		
WX21207021	Jamestown Utilities-Old Olga Area Water System Extension	3-5 Years	Not Funded	$37,885	Russell		
WX21207017	Jamestown Utilities-Blair School/Mt. Pleasant Road Water Project	3-5 Years	Not Funded	$36,199	Russell		
WX21207023	Jamestown Utilities-Manntown Area Water System Extension	3-5 Years	Not Funded	$24,643	Russell		
WX21207020	Jamestown Utilities-Downtown Area Water System Extension	3-5 Years	Not Funded	$24,503	Russell		

System Summary for Russell Springs Sewer & Water Works

PWSID	KY1040377	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	6	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	-	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	$16.50 per 4,000 gallons.	Storage Capacity	Yes, 7 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$22.60 per 4,000 gallons.	Total Connections	4,372
Residential Customers	3,998	Total Produced (MG)	-
Commercial Customers	355	Total Purchased (MG)	395.012
Institutional Customers	-	Total Inside Usage (MG)	240.129
Industrial Customers	17	Total Wholesale Sold (MG)	66.233
Wholesale Customers	2	Estimated Pct. Water Loss	22%

Total Distribution System Line Length = 211.59 miles (Distribution: 211.38 miles, Transmission: 0.21 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Russell Springs Sewer & Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21207009	Jamestown – Booster Pump Station Along US 127 South	3-5 Years	Partially Funded	$2,600,000	Russell		
WX21207007	Russell Springs Scattered Sites Water Expansion	6-10 Years	Not Funded	$831,000	Russell		
WX21207010	Russell Springs – Russell/Casey Inter-County Water Line Connection	6-10 Years	Not Funded	$711,823	Russell		
WX21207013	Russell Springs/RC IDA – French Valley Business Park Water Line Extension	6-10 Years	Not Funded	$100,000	Russell		

Taylor County

- 2010 census population of 24,512 (10,864 households) with 97% serviceable.
- Projected 2020 population of 26,079 (change of 1,567).
- Taylor County has 478.57 miles of existing water lines.
- 47.00 miles of line extensions proposed in the next 10 years.
- 2.00 miles of line rehabilitation proposed in the next 10 years.
- 13.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $21,592,115.
- There are no projects planned from 6 to 10 years.



Taylor County has a 2010 census population count of 24,512 (10,864 households) with a projected 2020 population count of 26,079 (10,663 households). Public water is currently available to approximately 97 percent of the county's households based on 2010 census counts. Over the next ten years approximately 61 serviceable households will be added through the construction of 47.00 miles of water line extensions and approximately 9,644 instances of improved service through the rehabilitation of 2.00 miles of existing water lines and other appurtenances. 13.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Campbellsville	7	$19,453,115	52	9,614	40.00	-	13.00
Green-Taylor Water District	3	$2,139,000	9	30	7.00	2.00	-
Totals:	**10**	**$21,592,115**	**61**	**9,644**	**47.00**	**2.00**	**13.00**

Community Drinking Water Systems in Taylor County

Note: Serviceability counts are for households within Taylor county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY1090060	Campbellsville Municipal Water & Sewer System	Taylor	20,716	9,223
KY0010702	Columbia/Adair Utilities District	Adair	40	19
KY0440167	Green-Taylor Water District	Green	2,985	1,257
KY0620237	Larue County Water District #1	Larue	49	29
		Totals:	23,790	10,528

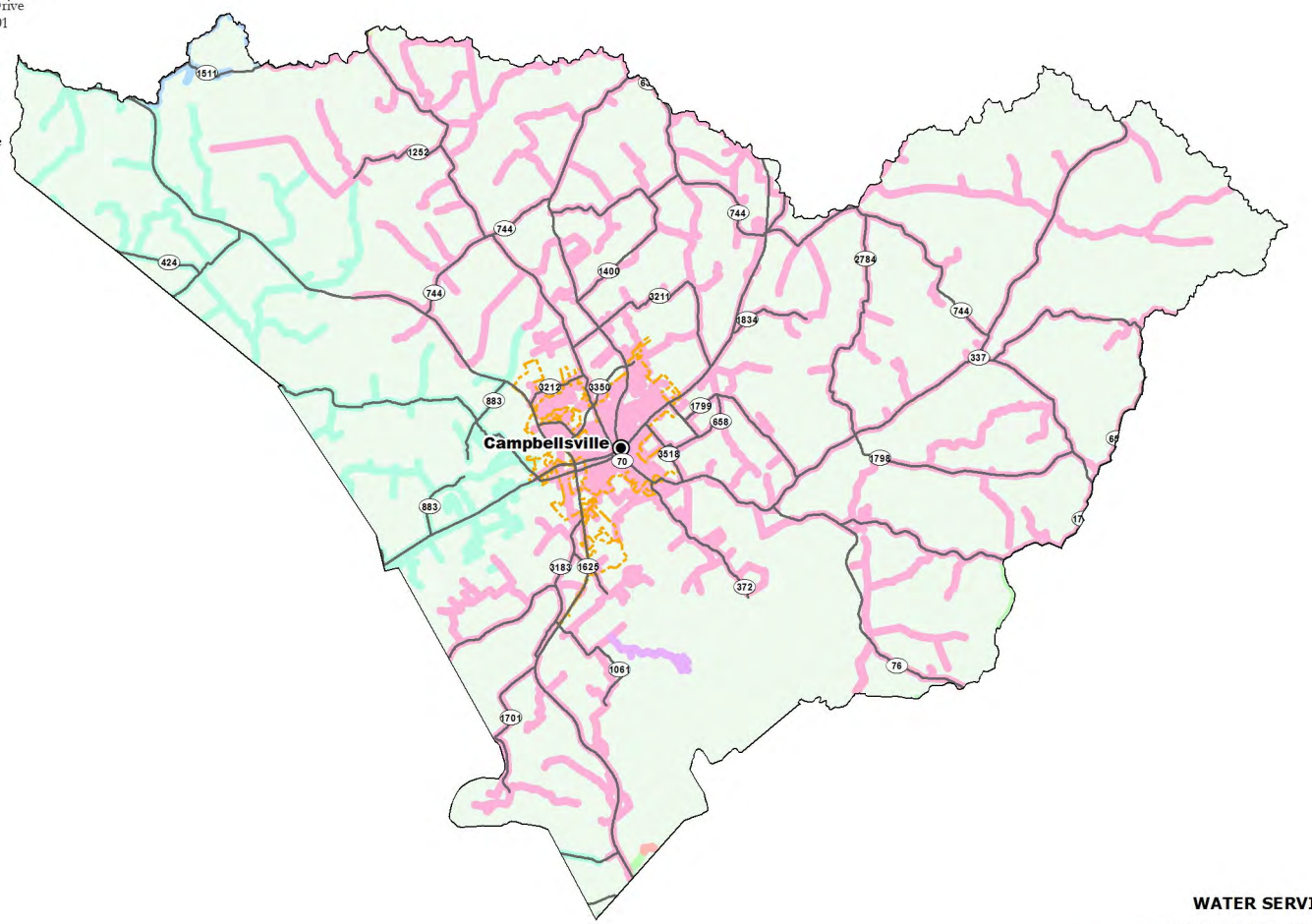
WATER SERVICE AREAS
TAYLOR COUNTY
Kentucky

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Kentucky Infrastructure Authority

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January, 2013

Water Resource Information System



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WATER SERVICE BY OWNER

- CAMPBELLSVILLE MUNICIPAL WATER & SEWER SYSTEM
- COLUMBIA/ADAIR COUNTY WATER COMMISSION
- COLUMBIA/ADAIR UTILITIES DISTRICT
- EAST CASEY COUNTY WATER DISTRICT
- GREEN RIVER LAKE STATE PARK
- GREEN-TAYLOR WATER DISTRICT
- LARUE COUNTY WATER DISTRICT #1
- MARION COUNTY WATER DISTRICT

System Summary for Campbellsville Municipal Water & Sewer System

PWSID	KY1090060	Treats Water	Yes, 1 plant with total capacity of 9.000 MGD.
System Type	Community	Surface Source	Yes, 2 sources.
Owner Type	Incorporated City	Groundwater Source	No
Employees	18	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 5 purchasers.
Inside Mun. Cost	$15.04 per 4,000 gallons.	Storage Capacity	Yes, 4 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$32.42 per 4,000 gallons.	Total Connections	9,322
Residential Customers	7,697	Total Produced (MG)	1,147.469
Commercial Customers	1,604	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	815.080
Industrial Customers	16	Total Wholesale Sold (MG)	139.562
Wholesale Customers	5	Estimated Pct. Water Loss	17%
Total Distribution System Line Length = 399.75 miles (Distribution: 388.84 miles, Transmission: 10.91 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Campbellsville Municipal Water & Sewer System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21217022	Taylor County School Water & Sewer System Extension	3-5 Years	Not Funded	$180,600	Taylor	2	1
WX21217018	Campbellsville – Taylor County Scattered Sites – Phase 3	3-5 Years	Not Funded	$2,074,615	Taylor	6	2
WX21217023	Campbellsville Regional Water System Improvements	3-5 Years	Not Funded	$5,951,000	Taylor		
WX21217020	Campbellsville - Water Storage Tank Improvements	3-5 Years	Not Funded	$5,000,000	Taylor		
WX21217021	North Campbellsville Area Water Storage Tank	3-5 Years	Not Funded	$2,565,000	Taylor		
WX21155017	Marion Co. Water Dist. / Campbellsville Water Transmission Main	3-5 Years	Not Funded	$2,468,885	Marion		
WX21217005	Campbellsville-Taylor County Industrial Park Extension	3-5 Years	Not Funded	$500,000	Taylor		

Wayne County

- 2010 census population of 20,813 (10,942 households) with 89% serviceable.
- Projected 2020 population of 22,128 (change of 1,315).
- Wayne County has 461.17 miles of existing water lines.
- 34.00 miles of line extensions proposed in the next 10 years.
- 10.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $13,134,500.
- Estimated funding needs for projects from 6 to 10 years: $3,178,000.



Wayne County has a 2010 census population count of 20,813 (10,942 households) with a projected 2020 population count of 22,128 (9,686 households). Public water is currently available to approximately 89 percent of the county's households based on 2010 census counts. Over the next ten years approximately 151 serviceable households will be added through the construction of 34.00 miles of water line extensions and approximately 287 instances of improved service through the rehabilitation of 10.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Bronston Water Association Inc	1	$1,039,000	-	20	-	2.00	-
City of Monticello	7	$15,273,500	151	267	34.00	8.00	-
Totals:	**8**	**$16,312,500**	**151**	**287**	**34.00**	**10.00**	**-**

Community Drinking Water Systems in Wayne County

Note: Serviceability counts are for households within Wayne county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY1160291	Monticello Utility Commission	Wayne	17,462	8,618
KY1000043	Bronston Water Association	Pulaski	740	405
KY1000363	Western Pulaski County Water District	Pulaski	501	716
		Totals:	18,703	9,739

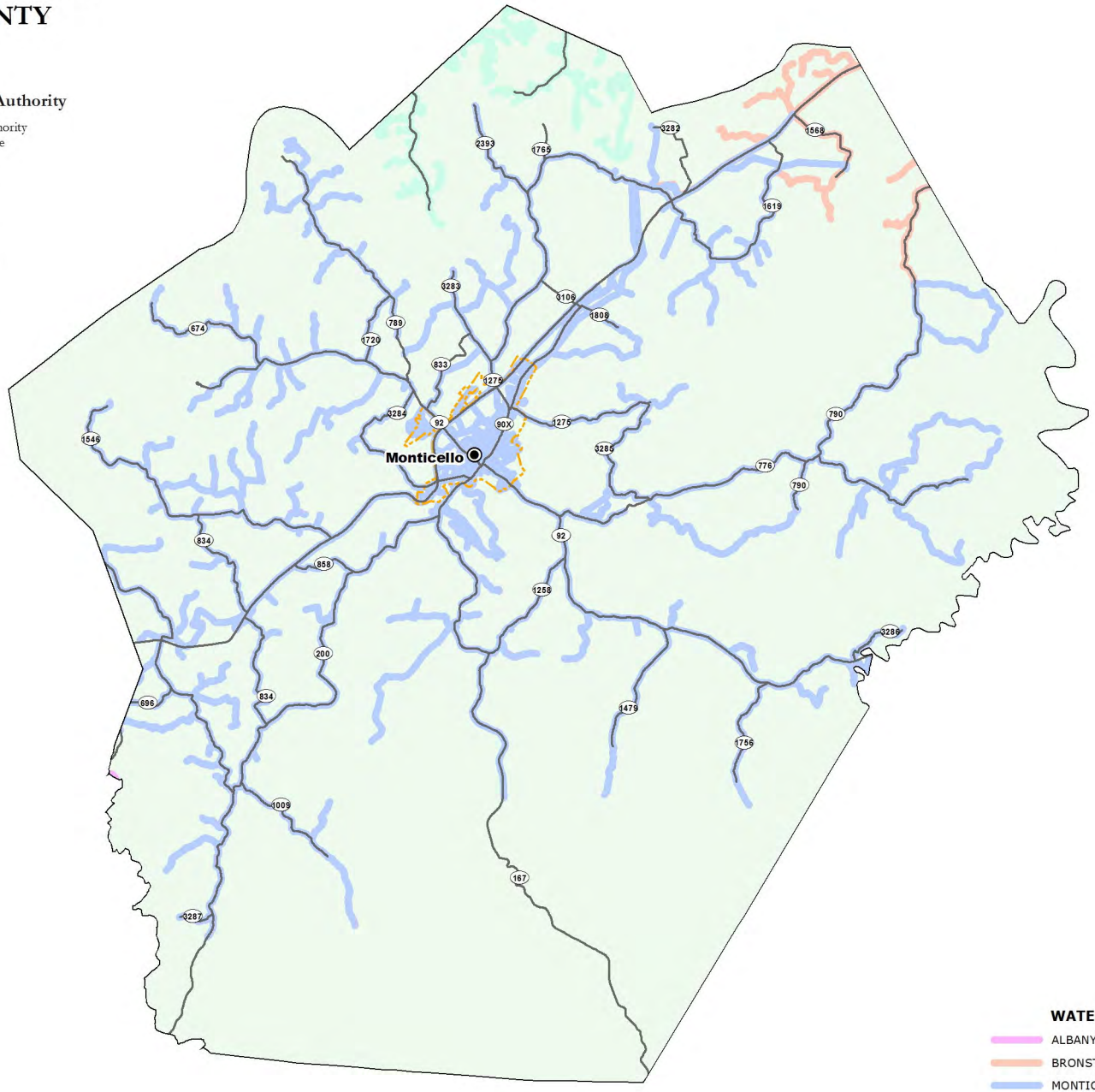
WATER SERVICE AREAS
WAYNE COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

Kentucky Infrastructure Authority
1024 Capital Center Drive
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January, 2013

Water Resource Information System



WATER SERVICE BY OWNER

- ALBANY MUNICIPAL WATER & SEWER
- BRONSTON WATER ASSOCIATION
- MONTICELLO UTILITY COMMISSION
- WESTERN PULASKI COUNTY WATER DISTRICT

System Summary for Monticello Utility Commission

PWSID	KY1160291	Treats Water	Yes, 1 plant with total capacity of 4.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Municipal Utility Board or Commission	Groundwater Source	No
Employees	23	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$20.90 per 4,000 gallons.	Storage Capacity	Yes, 15 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	$26.12 per 4,000 gallons.	Total Connections	8,245
Residential Customers	7,716	Total Produced (MG)	855.350
Commercial Customers	528	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	610.677
Industrial Customers	-	Total Wholesale Sold (MG)	85.596
Wholesale Customers	1	Estimated Pct. Water Loss	19%

Total Distribution System Line Length = 396.60 miles (Distribution: 387.56 miles, Transmission: 9.04 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Monticello Utility Commission

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21231014	Monticello Water Treatment Plant Improvements	3-5 Years	Partially Funded	$11,246,000	Wayne		
WX21231011	Monticello – Mount Pisgah Area Water Line Extensions	6-10 Years	Not Funded	$1,650,000	Wayne		
WX21231003	Mt. Pisgah-Parmleyville Water Expansion	6-10 Years	Not Funded	$908,000	Wayne		
WX21231012	Monticello – Southern Wayne County Water Line Extensions	6-10 Years	Not Funded	$620,000	Wayne		
WX21231004	Monticello/Cumberland Ridge Rd. Water System Renovation	3-5 Years	Not Funded	$486,000	Wayne		
WX21231005	Monticello/Bell & Eastland Subdivisions/Morrow Landing Water System Renovation	3-5 Years	Not Funded	$262,500	Wayne		
WX21231015	Smokey Trail Waterline Extension	3-5 Years	Not Funded	$101,000	Wayne		

Lincoln Trail Area Development District (LTADD)



- 2010 census population of 269,117 (116,687 households) with 92% serviceable.
- Projected 2020 population of 295,040 (change of 25,923).
- 4,886.27 miles of existing water lines.
- 386.00 miles of line extensions proposed in the next 10 years.
- 36.00 miles of line rehabilitation proposed in the next 10 years.
- 41.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $159,975,898.
- Estimated funding needs for projects from 6 to 10 years: $990,400.
- Average age of structures: water treatment plants is 46 years; water tanks is 24 years.
- Total number of interconnected systems is 27.
- 97 miles of asbestos concrete pipe currently in use.
- 1,566 miles of water lines less than 15 years old.
- 650 miles of water lines between 15 and 30 years old.
- 890 miles of water lines between 31 and 50 years old.
- 1,372 miles of water lines between 51 and 70 years old.
- 71 miles of water lines greater than 70 years old.

Lincoln Trail Area Development District has a 2010 census population count of 269,117 (116,687 households) with a projected 2020 population count of 295,040 (117,392 households). Public water is currently available to approximately 92 percent of the district's households based on 2010 census counts. Over the next ten years approximately 2,702 serviceable households will be added through the construction of 386.00 miles of water line extensions and approximately 92,910 instances of improved service through the rehabilitation of 36.00 miles of existing water lines and other appurtenances. 41.00 miles of transmission lines are also proposed within this district.

County Summary for Lincoln Trail Area Development District

County Name	2010 Population	2010 Households	2020 Population	2020 Households	Serviceable Households	Percent Serviceable	Planned Cost 0 to 10 Years
Breckinridge	20,059	10,630	21,489	8,788	7,900	74%	$ 41,328,627
Grayson	25,746	13,561	27,048	11,007	13,358	99%	$ 10,715,038
Hardin	105,543	43,261	116,612	46,055	40,774	94%	$ 67,584,485
Larue	14,193	6,172	14,961	6,069	5,269	85%	$ 5,096,000
Marion	19,820	8,182	21,424	8,332	8,093	99%	$ 12,782,145
Meade	28,602	11,762	30,901	11,964	9,162	78%	$ 7,000,683
Nelson	43,437	18,075	50,119	20,219	17,759	98%	$ 7,863,100
Washington	11,717	5,044	12,486	4,958	4,935	98%	$ 8,596,220
Totals	**269,117**	**116,687**	**295,040**	**117,392**	**107,250**	**92%**	**$ 160,966,298**

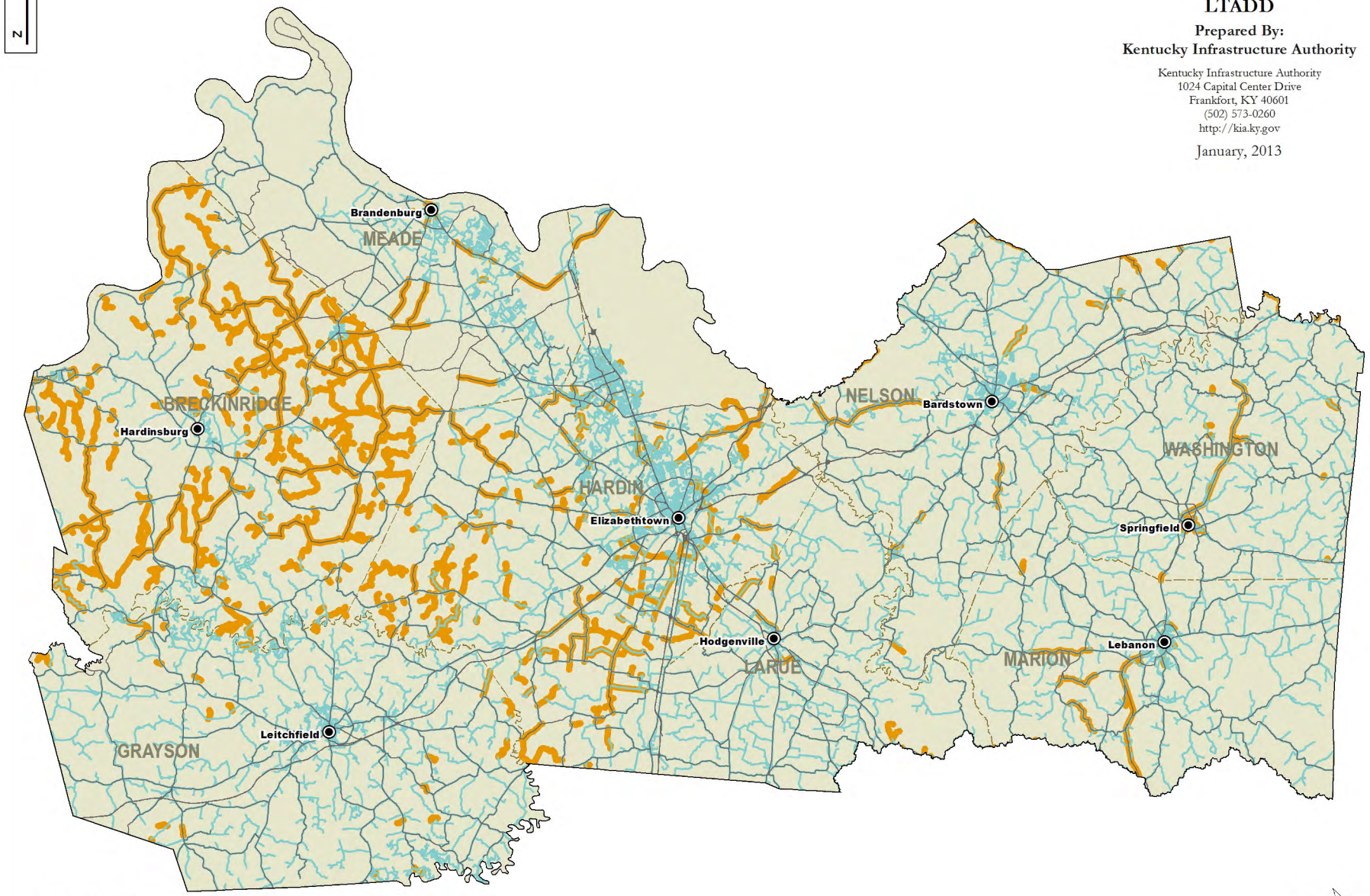
EXISTING & PROPOSED WATER LINES

LTADD

Prepared By:
Kentucky Infrastructure Authority

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January, 2013



Community Water Systems in Lincoln Trail Area Development District County

Note: Serviceable counts include households outside the area development district.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0140079	Cloverport Water & Sewer System	Breckinridge	1,102	547
KY0140966	Hardinsburg Water Department	Breckinridge	11,494	6,483
KY0140206	Irvington Water System	Breckinridge	1,419	655
KY0430063	Caneyville Municipal Water Works	Grayson	1,667	816
KY0430616	Grayson County Water District	Grayson	14,122	6,997
KY0430244	Leitchfield Utilities	Grayson	6,534	2,902
KY0470990	Hardin Co. Water District No. 1 Fort Knox System	Hardin	127	35
KY0470175	Hardin County Water District #2	Hardin	45,034	18,152
KY0470393	Hardin County Water District No. 1	Hardin	27,350	11,652
KY0470440	Vine Grove Water Department	Hardin	3,572	1,520
KY0470455	West Point Water Department	Hardin	835	443
KY0620200	Hodgenville Water Works	Larue	2,002	845
KY0620237	Larue County Water District #1	Larue	9,130	3,894
KY0780241	Lebanon Water Works Co Inc	Marion	6,115	2,840
KY0780268	Marion County Water District	Marion	14,706	5,776
KY0820041	Brandenburg Water Works	Meade	3,318	1,420
KY0820369	Meade County Water District	Meade	15,936	6,188
KY0820481	Muldraugh Water Department	Meade	947	539
KY0900017	Bardstown Municipal Water Department	Nelson	25,517	10,799
KY0900031	Bloomfield Water & Sewer Department	Nelson	4,191	1,790
KY0900312	New Haven Municipal Water Works	Nelson	1,351	579
KY0900323	North Nelson Water District	Nelson	10,923	4,332
KY1150415	Springfield Water & Sewer Commission	Washington	10,411	4,496
		Totals:	217,803	93,700

Lincoln Trail Area Development District
Regional Water Needs Assessment



Primary Need: **Repair and Replace Existing Infrastructure**
Secondary Need: **Increase Storage Capacity**

Discussion of Area Development District Needs:

The Lincoln Trail ADD region has experienced moderate growth in the more urban areas and urban fringes and slow to stagnant growth in the small, rural communities. This has presented different challenges to each area. The concentrations of population in Hardin and Nelson Counties has focused attention on meeting growing demand needs with upgraded facilities (greater capacities).

The least densely populated areas of the region in Breckinridge and Meade Counties still have large geographic areas without potable water but they have made significant progress in reaching areas expressing interest in public water. There is still some need to meet isolated unserved populations; however, the remaining unserved households are very sparsely settled and the cost per household and potential maintenance and water quality issues will be difficult to overcome.

The smaller, more rural communities have seen slow to negative growth and face increasing pressure to repair and replace aging lines and facilities. Many lines in downtown areas were constructed in the 1940's and 1950's and are nearing their life expectancy and their capacities. Treatment facilities in those communities are also facing outdated technologies, difficulty in meeting new regulatory requirements and, high cost of operation (inefficiency). The smaller systems also face unique challenges in keeping qualified personnel as their populations age and decline. They find it difficult to compete financially for experienced personnel or to train new personnel.

Area systems that serve rural or wide geographic populations have difficulties in maintaining water quality in the face of increasing regulations and limitations, particularly those associated with disinfection by-products. A balance between adequate storage and frequent turnover of water supplies is difficult to meet. Projects that aid in reducing disinfection by-product development (tank mixing, automatic flushing, etc.) may become increasingly important.

Overall, the district's utilities have done well in adjusting to new demands but on the horizon, financial burdens may prevent many smaller systems from making necessary repairs and upgrades.

Description and Determination of Planning Units:

Planning units in the Lincoln Trail Region are primarily set by county boundaries. They generally compose a large enough geographic area and small enough grouping of utilities to provide reasonable interaction, feedback, and information to be a useful planning unit. Two Counties do not have a "County Water District" that is responsible for unserved rural populations - Breckinridge and Washington. The City of Hardinsburg in Breckinridge County has taken on the challenge of serving the rural population while Washington County has formed the Springfield Water Commission that has county responsibility.

Lincoln Trail Area Development District
Project Ranking Methodology



The Lincoln Trail Area Water Management Planning Council will be meeting on December 3rd to do our yearly water and wastewater project prioritization. Our prioritization process is adapted from an outline previously developed by KIA and Senate Bill 409. The process is hopefully inclusive and allows for discussion at the local level to improve understanding of a project's intent and impact.

In the past month we've held a County Advisory Committee meeting in each County. Those meetings are hosted by each County Judge/Executive (as the Advisory chairperson) with each local utility, Mayor, and local Health Department invited to participate. All proposed projects are reviewed by the committee and given an initial score based upon how the project meets five criteria (project type, regional connections, design status, funding status, and local need). Most of the discussion by each County committee is centered on how projects address the greatest local needs. Since there can be diverse interests represented, committee members must work together to determine what needs are most important in their community and what projects will meet them. Discussions, while lively in some cases, also serve as a forum to hear about important things affecting local utilities and share information that impacts all of our communities.

After all the County Advisory meetings have taken place, the Area Water Management Council meets to finalize the priorities and adopt the regional list. ADD Staff provides a summary tabulation of profile points based upon the Advisory Committee recommendations. The Council then reviews the list and discusses any changes. In the past two years, the Council has only included the top five projects from each County Advisory group to be ranked in the prioritization list.

Project prioritization is provided to the KY Infrastructure Authority and to LRC. In the past, the prioritization list has been utilized by the General Assembly for KIA line item funding; but given the current budget situation, we are not optimistic for that happening. Although no federal funding pools use our prioritization list, nearly all the funding programs are using portions of the WRIS project profile to feed information for their applications and funding decisions so it is important that we continue the process to help our region produce good infrastructure projects that meet locally expressed needs.

If you would like more information on the process or if you have further questions, please feel free to contact Aaron Hawkins or me at the ADD.

Profile Scoring Criteria for ranked projects:

Project type [20 points max to 5 points min.]: matched to the primary project activities

> Unserved (customers / mile): 7>/mile=20 pts, 5-6/mile=15 pts, 3-4/mile=10 pts, 2</mile=5 pts;
>
> Underserved/Improved Service (% of system improved): 75-100%=20 pts, 50-75%=15 pts, 25-49%=10 pts, <25% / maintenance = 5 pts;
>
> Economic Development (# of jobs assisted) 25+ committed= 20pts, 15-24 committed= 15pts, less than 15 committed= 10pts, no quantified jobs= 5 pts;
>
> Other (technical improvements, feasibility studies, etc.) = 10 points

Regional Connection
Regional [20 points] project that connects or merges 2 or more systems for the sale or production of water or wastewater treatment;
Increased connectivity [10 points]: improved existing connection or emergency connection;
Non-regional [5 points]

Design Status: Division of Water approved plans (20 pts.); Preliminary Engineering Report completed (15 pts.); Engineer procured for final design (10 pts.); Engineer developed profile (5 pts.)

Funding Status: The percentage of cost committed from local sources
50% or more from local sources= 20pts,
25-49% from local sources= 15pts,
less than 25% from local or submitted applications (CDBG, RD, KIA, etc)= 10pts,
other= 5pts.

Local Need:
Most important project within the planning unit (20 pts);
2nd most important project (16 pts);
3rd most important project (13 pts);
4th most important project (11 pts);
5th most important project (9 pts).
Only the top five in each planning unit are generally scored for local need.

Project Rankings For Lincoln Trail Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21229009	Springfield Danville Interconnect	0-2 Years	Not Funded	$250,000	Washington	1	1
WX21163016	Phase VIII Water System Improvements/ Meade Co. Water District	3-5 Years	Not Funded	$2,000,000	Meade	2	2
WX21155036	Marion County Water District Lebanon Bypass Elevated Tank	3-5 Years	Not Funded	$2,055,000	Marion	3	1
WX21027027	City of Hardinsburg - Area 2 Waterline Extension	3-5 Years	Not Funded	$1,341,850	Breckinridge	4	1
WX21027046	Cloverport Service Line Replacement & Extension	3-5 Years	Not Funded	$430,810	Breckinridge	5	2
WX21155040	Lebanon Water Co. Woodlawn Ave. Replacement	3-5 Years	Not Funded	$600,000	Marion	6	2
WX21027044	Hardinsburg Water Treatment Plant Expansion Phase I	3-5 Years	Not Funded	$1,249,240	Breckinridge	7	4
WX21179014	Bloomfield Water System Improvements	3-5 Years	Not Funded	$800,000	Nelson	8	1
WX21093039	HCWD #1 - New Elevated Storage Tank	3-5 Years	Not Funded	$4,000,000	Hardin	9	1
WX21163007	Brandenburg Old State Road Replacement	3-5 Years	Not Funded	$300,000	Meade	10	1
WX21027008	Rehabilitation of Irvington Water System	3-5 Years	Not Funded	$1,004,055	Breckinridge	11	3
WX21085007	City of Leitchfield-Water Tower	3-5 Years	Not Funded	$1,325,000	Grayson	12	3
WX21155035	Marion County Water District Telemetry Project	0-2 Years	Not Funded	$265,200	Marion	13	3
WX21163022	Flaherty Water Transmission Main	0-2 Years	Not Funded	$1,376,785	Meade	14	3
WX21093009	HCWD #2 Cecilia Tank #2	3-5 Years	Not Funded	$2,500,000	Hardin	15	2
WX21085030	Leitchfield Water AMR Upgrade Project	0-2 Years	Not Funded	$306,500	Grayson	16	1
WX21123008	Lincoln Blvd. South Replacement	0-2 Years	Not Funded	$593,000	Larue	17	1
WX21155023	Lebanon Water Works Co. Calvary Rd Waterline Replacement	3-5 Years	Not Funded	$1,200,000	Marion	18	5
WX21093035	West Point- South Dixie Water Tower	3-5 Years	Not Funded	$925,000	Hardin	19	3
WX21123025	Larue Co. W.D. - Hwy 84 Pump Station	3-5 Years	Not Funded	$250,000	Larue	20	3
WX21229010	Springfield - Willisburg Lake Improvements	3-5 Years	Not Funded	$1,500,000	Washington	21	3
WX21085032	Caneyville Meter Replacement / Upgrade Project	0-2 Years	Not Funded	$233,000	Grayson	22	2
WX21163023	Muldraugh Finished Water Connection	3-5 Years	Not Funded	$455,000	Meade	23	4
WX21179024	New Haven Downtown Waterline Replacement	3-5 Years	Not Funded	$250,000	Nelson	24	2
WX21179010	North Nelson Hwy 245 Replacement	3-5 Years	Not Funded	$450,500	Nelson	25	4
WX21229011	US 150 Bypass Water Main Extension	0-2 Years	Not Funded	$940,000	Washington	26	2
WX21027009	Rehabilitation of Water Storage Tank In Cloverport	3-5 Years	Not Funded	$262,990	Breckinridge	27	5
WX21123024	Larue Co. Water District #1 GIS Technology	0-2 Years	Not Funded	$85,000	Larue	28	5
WX21179011	Bardstown Rubble Dam	3-5 Years	Not Funded	$500,000	Nelson	29	5
WX21179015	Bloomfield Water Line Extensions and Telemetry	3-5 Years	Not Funded	$675,000	Nelson	30	3
WX21123026	Larue Co. W.D. - Meter Tap Upgrade	0-2 Years	Not Funded	$50,000	Larue	31	2
WX21123017	Hodgenville Phase 1a Water System Improvements	3-5 Years	Not Funded	$962,000	Larue	32	4
WX21155022	Marion County Water District McElroy Phase 2 Water System Extens	3-5 Years	Not Funded	$660,000	Marion	33	4
WX21229005	City of Springfield Waterline Replacement/Upgrade	3-5 Years	Not Funded	$1,000,000	Washington	34	4
WX21093018	HCWD No. 2, 2020 Project Phase VI	3-5 Years	Not Funded	$4,800,000	Hardin	35	4

Project Rankings For Lincoln Trail Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21229008	Springfield Water Supply Study	0-2 Years	Not Funded	$100,000	Washington	36	
WX21093027	Hardin County Water District #1, Vulnerability and Protection Measures	0-2 Years	Not Funded	$120,000	Hardin	37	5
WX21085023	Grayson Co. Water District - Tank Mixing Upgrades	3-5 Years	Not Funded	$250,000	Grayson	38	4
WX21085024	City of Caneyville- Tank Mixing Upgrade	3-5 Years	Not Funded	$250,000	Grayson	39	5
WX21027028	City of Hardinsburg - Area 3 Waterline Extension	3-5 Years	Not Funded	$2,347,090	Breckinridge	40	
			Total Cost:	**$38,663,020**			

Breckinridge County

- 2010 census population of 20,059 (10,630 households) with 74% serviceable.
- Projected 2020 population of 21,489 (change of 1,430).
- Breckinridge County has 430.52 miles of existing water lines.
- 293.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $40,978,627.
- Estimated funding needs for projects from 6 to 10 years: $350,000.



Breckinridge County has a 2010 census population count of 20,059 (10,630 households) with a projected 2020 population count of 21,489 (8,788 households). Public water is currently available to approximately 74 percent of the county's households based on 2010 census counts. Over the next ten years approximately 2,233 serviceable households will be added through the construction of 293.00 miles of water line extensions and approximately 3,624 instances of improved service through system wide upgrades.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Cloverport	2	$693,800	13	550	1.00	-	-
City of Hardinsburg	18	$38,919,972	2,158	3,074	289.00	-	-
City of Irvington	2	$1,364,855	61	-	3.00	-	-
Ohio County Water District	1	$350,000	1	-	-	-	-
Totals:	**23**	**$41,328,627**	**2,233**	**3,624**	**293.00**	**-**	**-**

Community Drinking Water Systems in Breckinridge County

Note: Serviceability counts are for households within Breckinridge county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0140079	Cloverport Water & Sewer System	Breckinridge	1,102	547
KY0140966	Hardinsburg Water Department	Breckinridge	11,488	6,482
KY0140206	Irvington Water System	Breckinridge	1,418	654
KY0300109	East Daviess County Water Association	Daviess	36	13
KY0470393	Hardin County Water District No. 1	Hardin	164	69
KY0920332	Ohio County Water District	Ohio	185	129
		Totals:	14,393	7,894

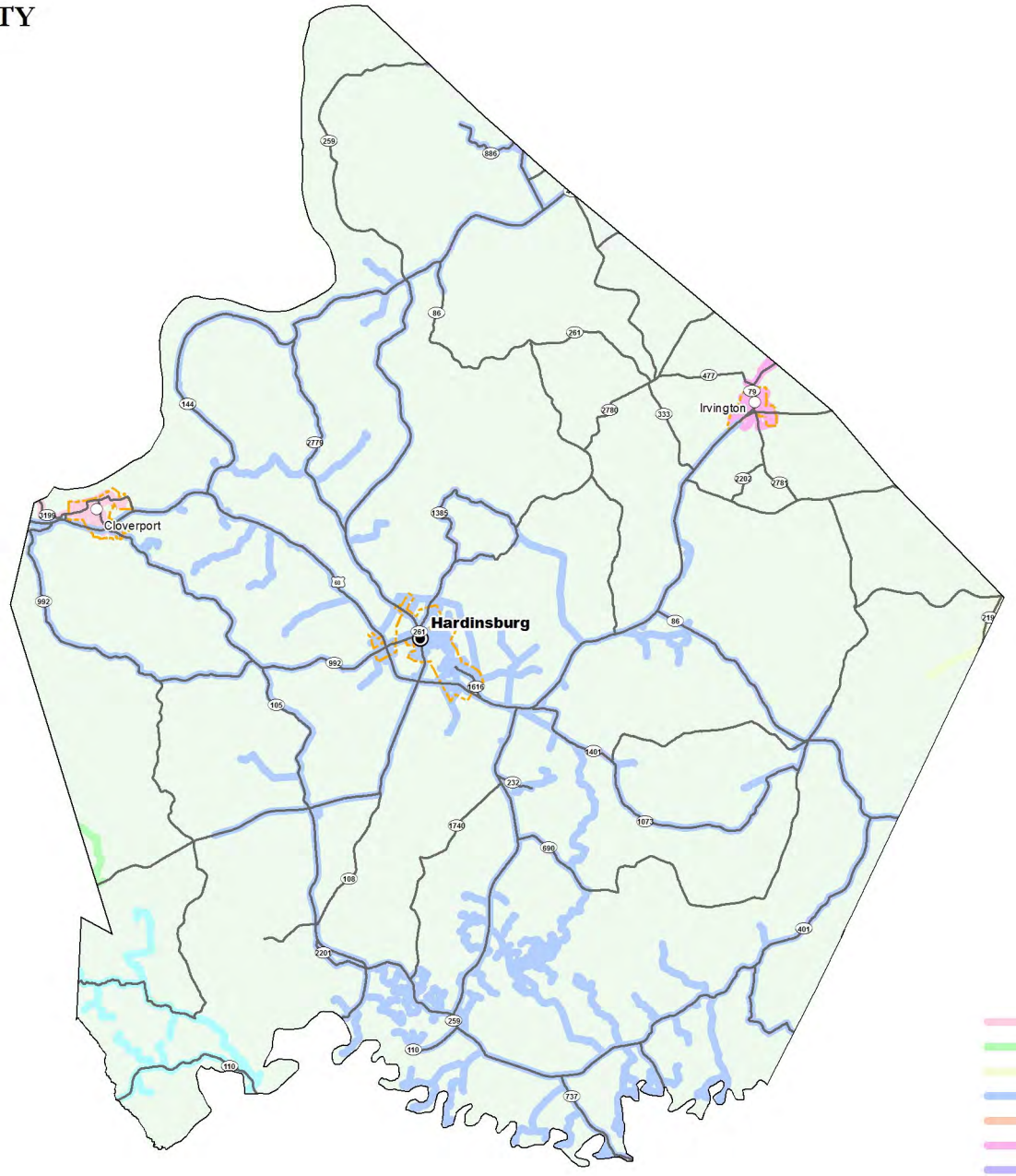
WATER SERVICE AREAS
BRECKINRIDGE COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

Kentucky Infrastructure Authority
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January, 2013

Water Resource Information System



WATER SERVICE BY OWNER

- CLOVERPORT WATER & SEWER SYSTEM
- EAST DAVIESS COUNTY WATER ASSOCIATION
- HARDIN COUNTY WATER DISTRICT #1
- HARDINSBURG WATER DEPARTMENT
- HAWESVILLE WATER WORKS
- IRVINGTON WATER SYSTEM
- MEADE COUNTY WATER DISTRICT
- OHIO COUNTY WATER DISTRICT

System Summary for Cloverport Water & Sewer System

PWSID	KY0140079	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	3	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$22.25 per 4,000 gallons.	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$27.81 per 4,000 gallons.	Total Connections	598
Residential Customers	566	Total Produced (MG)	-
Commercial Customers	32	Total Purchased (MG)	51.250
Institutional Customers	-	Total Inside Usage (MG)	44.890
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	12%
Total Distribution System Line Length = 12.92 miles (Distribution: 12.91 miles, Transmission: 0.01 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Cloverport Water & Sewer System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21027046	Cloverport Service Line Replacement & Extension	3-5 Years	Not Funded	$430,810	Breckinridge	5	2
WX21027044	Hardinsburg Water Treatment Plant Expansion Phase I	3-5 Years	Not Funded	$1,249,240	Breckinridge	7	4
WX21027009	Rehabilitation of Water Storage Tank In Cloverport	3-5 Years	Not Funded	$262,990	Breckinridge	27	5

System Summary for Hardinsburg Water Department

PWSID	KY0140966	Treats Water	Yes, 1 plant with total capacity of 2.000 MGD.
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	Yes, 1 source.
Employees	29	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	$30.60 per 4,000 gallons.	Storage Capacity	Yes, 8 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	$43.40 per 4,000 gallons.	Total Connections	5,281
Residential Customers	4,882	Total Produced (MG)	454.230
Commercial Customers	373	Total Purchased (MG)	0.096
Institutional Customers	-	Total Inside Usage (MG)	320.074
Industrial Customers	6	Total Wholesale Sold (MG)	107.550
Wholesale Customers	2	Estimated Pct. Water Loss	6%

Total Distribution System Line Length = 372.13 miles (Distribution: 371.32 miles, Transmission: 0.82 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Hardinsburg Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21027027	City of Hardinsburg - Area 2 Waterline Extension	3-5 Years	Not Funded	$1,341,850	Breckinridge	4	1
WX21027044	Hardinsburg Water Treatment Plant Expansion Phase I	3-5 Years	Not Funded	$1,249,240	Breckinridge	7	4
WX21027028	City of Hardinsburg - Area 3 Waterline Extension	3-5 Years	Not Funded	$2,347,090	Breckinridge	40	
WX21027048	Hardinsburg: Webster / Lodiburg (Area 6 & 8) Phase II	3-5 Years	Not Funded	$4,731,374	Breckinridge		
WX21027045	Hardinsburg Water Treatment Plant Expansion Phase II	3-5 Years	Not Funded	$3,129,580	Breckinridge		
WX21027029	City of Hardinsburg - Area 4 Waterline Extension	3-5 Years	Not Funded	$3,030,525	Breckinridge		
WX21027038	City of Hardinsburg - Area 14 Waterline Extension	3-5 Years	Not Funded	$2,770,260	Breckinridge		
WX21027030	City of Hardinsburg - Area 5 Waterline Extension	3-5 Years	Not Funded	$2,738,970	Breckinridge		
WX21027040	City of Hardinsburg - Area 16 Waterline Extension	3-5 Years	Not Funded	$2,550,240	Breckinridge		
WX21027032	City of Hardinsburg - Area 7 Waterline Extension	3-5 Years	Not Funded	$2,510,565	Breckinridge		
WX21027036	City of Hardinsburg - Area 11 Waterline Extension	3-5 Years	Partially Funded	$2,442,480	Breckinridge		
WX21027039	City of Hardinsburg - Area 15 Waterline Extension	3-5 Years	Not Funded	$2,165,880	Breckinridge		
WX21027034	City of Hardinsburg - Area 9 Waterline Extension	3-5 Years	Not Funded	$2,134,140	Breckinridge		
WX21027037	City of Hardinsburg - Area 12 Waterline Extension	3-5 Years	Not Funded	$1,770,030	Breckinridge		
WX21027035	City of Hardinsburg - Area 10 Waterline Extension	3-5 Years	Not Funded	$1,753,140	Breckinridge		
WX21027014	City of Hardinsburg-Water Storage Tank Improvements	0-2 Years	Not Funded	$1,190,000	Breckinridge		
WX21027049	McQuady Phase III Additions	0-2 Years	Not Funded	$755,188	Breckinridge		
WX21027020	City of Hardinsburg Henning Booster Station Parallel Line	0-2 Years	Not Funded	$309,420	Breckinridge		

System Summary for Irvington Water System

PWSID	KY0140206	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	3	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$38.96 per 4,000 gallons.	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$42.62 per 4,000 gallons.	Total Connections	605
Residential Customers	556	Total Produced (MG)	-
Commercial Customers	49	Total Purchased (MG)	56.300
Institutional Customers	-	Total Inside Usage (MG)	38.640
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	31%
Total Distribution System Line Length = 17.12 miles (Distribution: 17.12 miles, Transmission: 0.00 miles).			

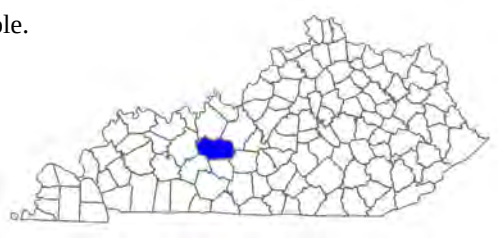
MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Irvington Water System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21027044	Hardinsburg Water Treatment Plant Expansion Phase I	3-5 Years	Not Funded	$1,249,240	Breckinridge	7	4
WX21027008	Rehabilitation of Irvington Water System	3-5 Years	Not Funded	$1,004,055	Breckinridge	11	3
WX21027047	Irvington Heights Water Extensions	3-5 Years	Not Funded	$360,800	Breckinridge		

Grayson County

- 2010 census population of 25,746 (13,561 households) with 99% serviceable.
- Projected 2020 population of 27,048 (change of 1,302).
- Grayson County has 818.66 miles of existing water lines.
- 18.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $10,365,038.
- Estimated funding needs for projects from 6 to 10 years: $350,000.



Grayson County has a 2010 census population count of 25,746 (13,561 households) with a projected 2020 population count of 27,048 (11,007 households). Public water is currently available to approximately 99 percent of the county's households based on 2010 census counts. Over the next ten years approximately 17 serviceable households will be added through the construction of 18.00 miles of water line extensions and approximately 3,165 instances of improved service through system wide upgrades.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Caneyville	1	$250,000	-	-	-	-	-
City of Leitchfield	2	$1,631,500	-	3,150	-	-	-
Edmonson County Water District	4	$7,305,053	5	-	3.00	-	-
Grayson County Water District	3	$1,178,485	12	15	12.00	-	-
Ohio County Water District	1	$350,000	-	-	3.00	-	-
Totals:	**11**	**$10,715,038**	**17**	**3,165**	**18.00**	**-**	**-**

Community Drinking Water Systems in Grayson County

Note: Serviceability counts are for households within Grayson county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0430063	Caneyville Municipal Water Works	Grayson	1,667	816
KY0430616	Grayson County Water District	Grayson	14,117	6,994
KY0430244	Leitchfield Utilities	Grayson	6,534	2,902
KY0160052	Butler County Water System	Butler	30	14
KY0310114	Edmonson County Water District	Edmonson	2,905	2,605
KY0920332	Ohio County Water District	Ohio	64	24
		Totals:	25,317	13,355

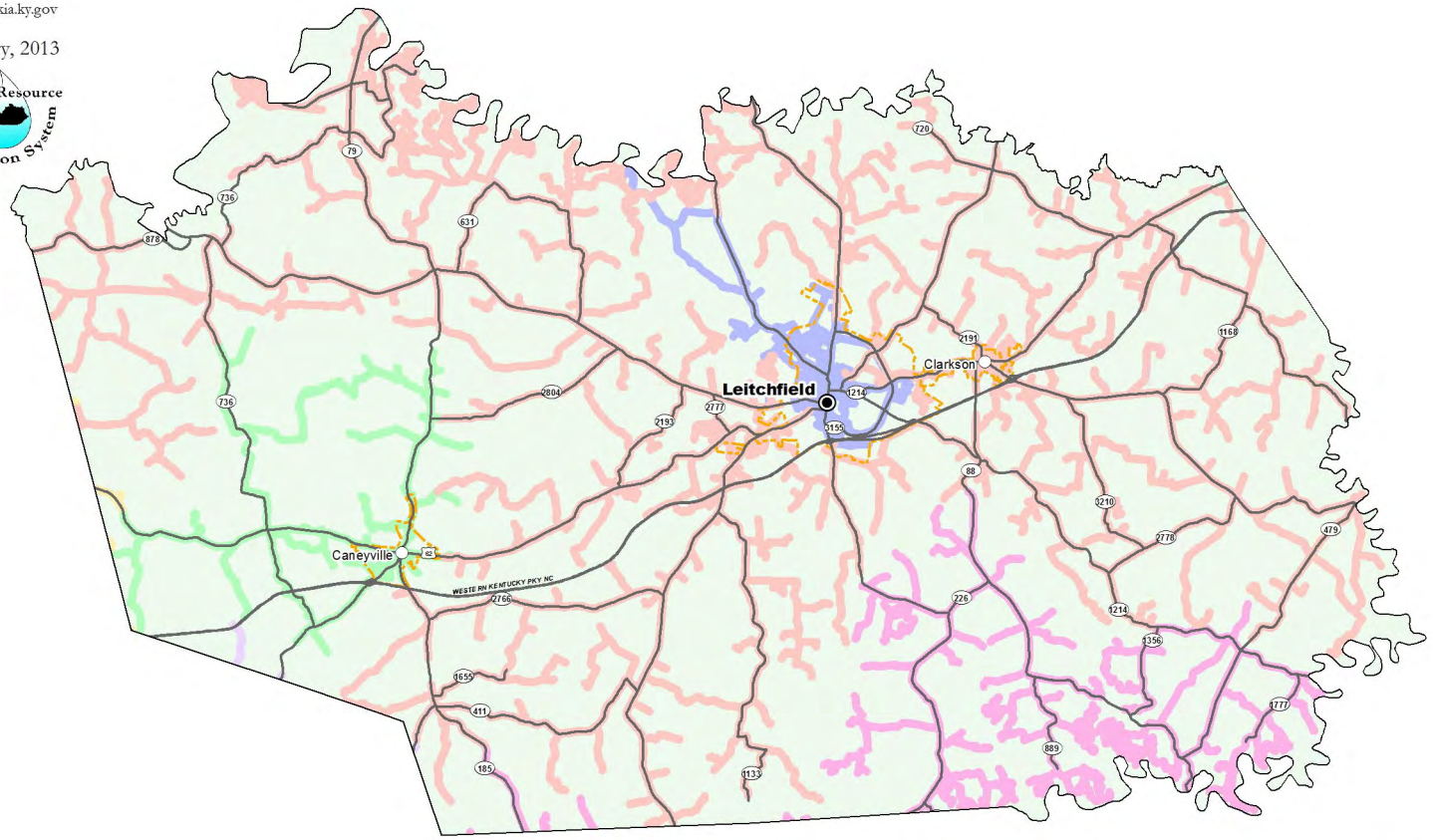
WATER SERVICE AREAS
GRAYSON COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

Kentucky Infrastructure Authority
1024 Capital Center Drive
Frankfort, KY 40601
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January, 2013

Water Resource Information System



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WATER SERVICE BY OWNER

- BUTLER COUNTY WATER SYSTEM
- CANEYVILLE MUNICIPAL WATER WORKS
- EDMONSON COUNTY WATER DISTRICT
- GRAYSON COUNTY WATER DISTRICT
- HARDIN COUNTY WATER DISTRICT #2
- HARDINSBURG WATER DEPARTMENT
- LEITCHFIELD UTILITIES
- OHIO COUNTY WATER DISTRICT

System Summary for Caneyville Municipal Water Works

PWSID	KY0430063	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	3	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$34.08 per 4,000 gallons.	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$42.38 per 4,000 gallons.	Total Connections	737
Residential Customers	658	Total Produced (MG)	-
Commercial Customers	75	Total Purchased (MG)	44.628
Institutional Customers	4	Total Inside Usage (MG)	32.650
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	27%

Total Distribution System Line Length = 58.82 miles (Distribution: 58.61 miles, Transmission: 0.20 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Caneyville Municipal Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21085024	City of Caneyville- Tank Mixing Upgrade	3-5 Years	Not Funded	$250,000	Grayson	39	5

System Summary for Grayson County Water District

PWSID	KY0430616	Treats Water	Yes, 1 plant with total capacity of 1.584 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	11	Wholesale Purchaser	Yes, from 3 providers.
Non-Municipal Cost	$41.28 per 4,000 gallons.	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 9 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	-	Total Connections	6,373
Residential Customers	6,127	Total Produced (MG)	215.624
Commercial Customers	296	Total Purchased (MG)	162.584
Institutional Customers	-	Total Inside Usage (MG)	300.834
Industrial Customers	-	Total Wholesale Sold (MG)	44.628
Wholesale Customers	1	Estimated Pct. Water Loss	9%
Total Distribution System Line Length = 543.83 miles (Distribution: 543.49 miles, Transmission: 0.33 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Grayson County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21085023	Grayson Co. Water District - Tank Mixing Upgrades	3-5 Years	Not Funded	$250,000	Grayson	38	4
WX21183034	Ohio County Water Dist./Grayson County Water Dist. Interconnect	6-10 Years	Not Funded	$350,000	Ohio		10
WX21085029	Grayson Co. Water District Project 18	3-5 Years	Not Funded	$444,500	Grayson		

System Summary for Leitchfield Utilities

PWSID	KY0430244	Treats Water	Yes, 1 plant with total capacity of 2.772 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Municipal Utility Board or Commission	Groundwater Source	No
Employees	11	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$29.53 per 4,000 gallons.	Storage Capacity	Yes, 3 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	$32.48 per 4,000 gallons.	Total Connections	2,822
Residential Customers	2,421	Total Produced (MG)	699.550
Commercial Customers	381	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	405.042
Industrial Customers	18	Total Wholesale Sold (MG)	162.584
Wholesale Customers	1	Estimated Pct. Water Loss	19%
Total Distribution System Line Length = 80.03 miles (Distribution: 73.52 miles, Transmission: 6.51 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Leitchfield Utilities

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21085007	City of Leitchfield-Water Tower	3-5 Years	Not Funded	$1,325,000	Grayson	12	3
WX21085030	Leitchfield Water AMR Upgrade Project	0-2 Years	Not Funded	$306,500	Grayson	16	1

Hardin County

- 2010 census population of 105,543 (43,261 households) with 94% serviceable.
- Projected 2020 population of 116,612 (change of 11,069).
- Hardin County has 1,213.62 miles of existing water lines.
- 27.00 miles of line extensions proposed in the next 10 years.
- 2.00 miles of line rehabilitation proposed in the next 10 years.
- 22.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $67,584,485.
- There are no projects planned from 6 to 10 years.



Hardin County has a 2010 census population count of 105,543 (43,261 households) with a projected 2020 population count of 116,612 (46,055 households). Public water is currently available to approximately 94 percent of the county's households based on 2010 census counts. Over the next ten years approximately 126 serviceable households will be added through the construction of 27.00 miles of water line extensions and approximately 65,253 instances of improved service through the rehabilitation of 2.00 miles of existing water lines and other appurtenances. 22.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Hardinsburg	1	$1,770,030	1	-	-	-	-
City of West Point	1	$925,000	-	-	-	-	-
Hardin County Water District #1	8	$15,283,410	-	50,083	-	2.00	9.00
Hardin County Water District #2	6	$23,333,045	125	15,170	27.00	-	9.00
Louisville Water Company	2	$26,273,000	-	-	-	-	4.00
Totals:	**18**	**$67,584,485**	**126**	**65,253**	**27.00**	**2.00**	**22.00**

Community Drinking Water Systems in Hardin County

Note: Serviceability counts are for households within Hardin county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0470990	Hardin Co. Water District No. 1 Fort Knox System	Hardin	127	35
KY0470175	Hardin County Water District #2	Hardin	43,230	17,339
KY0470393	Hardin County Water District No. 1	Hardin	26,607	11,355
KY0470440	Vine Grove Water Department	Hardin	3,572	1,520
KY0470455	West Point Water Department	Hardin	835	443
KY0620237	Larue County Water District #1	Larue	34	16
KY0820369	Meade County Water District	Meade	34	11
KY0900017	Bardstown Municipal Water Department	Nelson	350	157
		Totals:	74,789	30,876

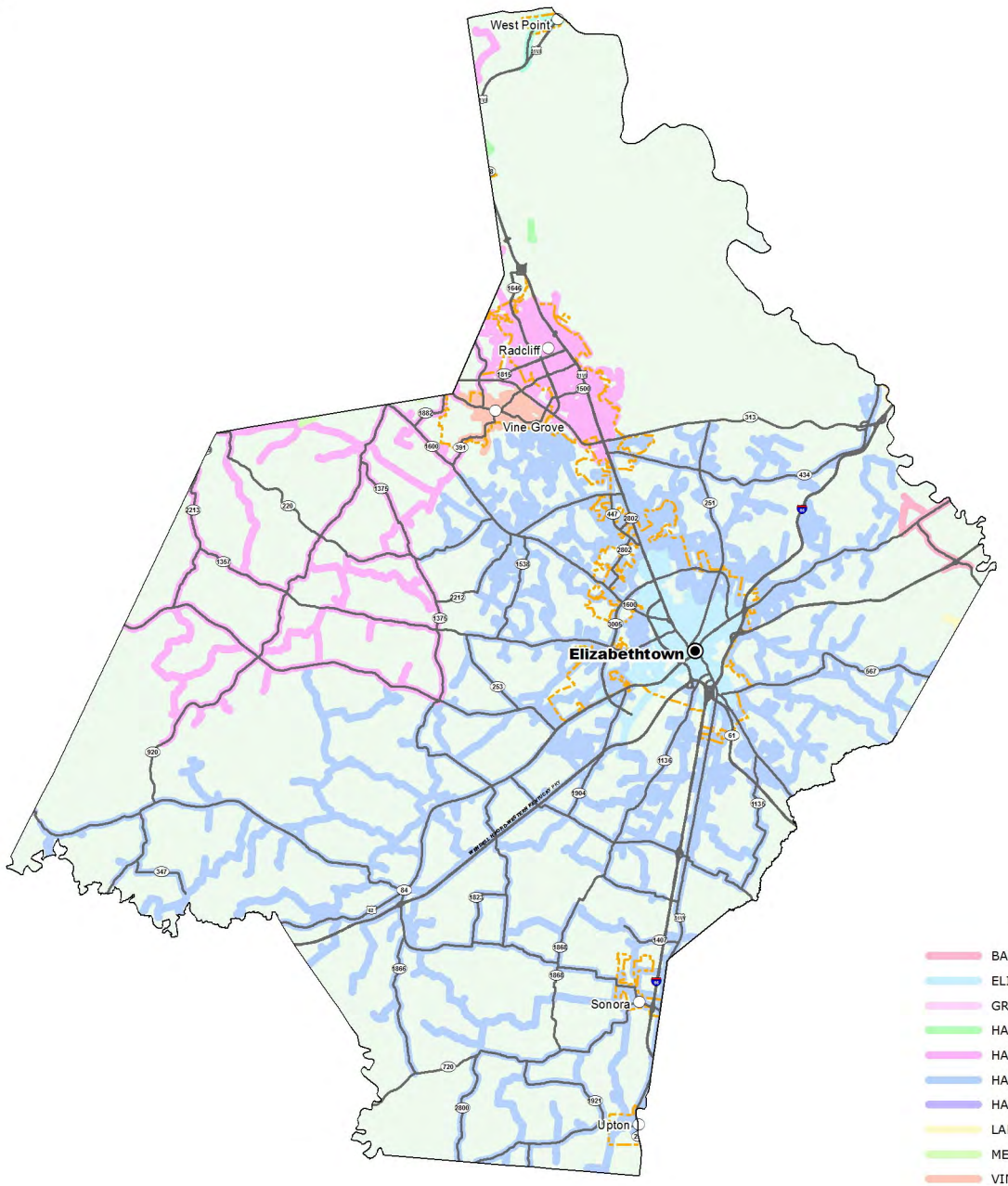
WATER SERVICE AREAS
HARDIN COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

Kentucky Infrastructure Authority
1024 Capital Center Drive
Frankfort, KY 40601
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http://kia.ky.gov

January, 2013

Water Resource Information System



WATER SERVICE BY OWNER

- BARDSTOWN MUNICIPAL WATER DEPARTMENT
- ELIZABETHTOWN WATER DEPARTMENT
- GRAYSON COUNTY WATER DISTRICT
- HARDIN CO. WATER DISTRICT #1 FORT KNOX SYSTEM
- HARDIN COUNTY WATER DISTRICT #1
- HARDIN COUNTY WATER DISTRICT #2
- HARDINSBURG WATER DEPARTMENT
- LARUE COUNTY WATER DISTRICT #1
- MEADE COUNTY WATER DISTRICT
- VINE GROVE WATER DEPARTMENT
- WEST POINT WATER DEPARTMENT

System Summary for Hardin Co. Water District No. 1 Fort Knox System

PWSID	KY0470990	Treats Water	Yes, 2 plants with total capacity of 10.500 MGD.
System Type	Community	Surface Source	Yes, 2 sources.
Owner Type	Water District (KRS 74)	Groundwater Source	Yes, 3 sources.
Employees	-	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	-	Storage Capacity	No
Outside Mun. Cost	-	Total Connections	2
Residential Customers	-	Total Produced (MG)	1,022.774
Commercial Customers	-	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	753.000
Industrial Customers	-	Total Wholesale Sold (MG)	39.106
Wholesale Customers	2	Estimated Pct. Water Loss	23%
Total Distribution System Line Length = 2.68 miles (Distribution: 0.72 miles, Transmission: 1.95 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Hardin Co. Water District No. 1 Fort Knox System

System Summary for Hardin County Water District #2

PWSID	KY0470175	Treats Water	Yes, 1 plant with total capacity of 8.100 MGD.
System Type	Community	Surface Source	Yes, 4 sources.
Owner Type	Water District (KRS 74)	Groundwater Source	Yes, 6 sources.
Employees	49	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$28.80 per 4,000 gallons.	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 11 tanks with total capacity of 6.000 MG.
Outside Mun. Cost	-	Total Connections	16,704
Residential Customers	16,144	Total Produced (MG)	1,828.070
Commercial Customers	982	Total Purchased (MG)	0.014
Institutional Customers	-	Total Inside Usage (MG)	1,214.027
Industrial Customers	9	Total Wholesale Sold (MG)	402.835
Wholesale Customers	2	Estimated Pct. Water Loss	12%

Total Distribution System Line Length = 801.63 miles (Distribution: 801.09 miles, Transmission: 0.54 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Hardin County Water District #2

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21093009	HCWD #2 Cecilia Tank #2	3-5 Years	Not Funded	$2,500,000	Hardin	15	2
WX21029288	Preston Hwy from Collings Hill Rd to Rolling Fork Transmission M	3-5 Years	Not Funded	$6,781,000	Bullitt	28	5
WX21093018	HCWD No. 2, 2020 Project Phase VI	3-5 Years	Not Funded	$4,800,000	Hardin	35	4
WX21029289	Salt River Booster Pump Station	3-5 Years	Not Funded	$1,300,000	Bullitt	35	6
WX21029287	Preston Hwy from Chapeze Rd to Beech Grove Rd Transmission Main	3-5 Years	Not Funded	$1,062,000	Bullitt	39	7
WX21099038	Quarry Road Water Main Extension	3-5 Years	Not Funded	$333,045	Hart	40	5
WX21029283	Beech Grove Booster Pump Station	3-5 Years	Not Funded	$800,000	Bullitt	43	8
WX21029285	Cedar Grove Transmission Main	3-5 Years	Not Funded	$228,000	Bullitt	46	9
WX21029284	Cedar Grove Booster Pump Station Improvements	3-5 Years	Not Funded	$200,000	Bullitt	49	10
WX21029286	Preston Hwy from Belmont Rd to Timber Ridge Ct Transmission Main	3-5 Years	Not Funded	$926,000	Bullitt	52	11
WX21093033	HCWD #2 Interconnection With Louisville Water	0-2 Years	Partially Funded	$15,000,000	Hardin		
WX21093025	Ft. Knox/Radcliff/Elizabethtown Interconnect Phase I	0-2 Years	Partially Funded	$1,000,000	Hardin		
WX21061006	Edmonson County Water District: 2012 Emergency Needs Project	0-2 Years	Not Funded	$895,000	Edmonson		
WX21093034	HCWD#2 Cecilia Pump Station Emergency Power	3-5 Years	Not Funded	$500,000	Hardin		
WX21093028	HCWD#2 Valley Creek Area Water Improvements	3-5 Years	Not Funded	$200,000	Hardin		

System Summary for Hardin County Water District No. 1

PWSID	KY0470393	Treats Water	Yes, 1 plant with total capacity of 3.100 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Water District (KRS 74)	Groundwater Source	Yes, 2 sources.
Employees	33	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$24.06 per 4,000 gallons.	Wholesale Provider	Yes, to 4 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 6 tanks with total capacity of 4.000 MG.
Outside Mun. Cost	-	Total Connections	9,980
Residential Customers	9,009	Total Produced (MG)	1,628.466
Commercial Customers	707	Total Purchased (MG)	10.435
Institutional Customers	-	Total Inside Usage (MG)	932.185
Industrial Customers	-	Total Wholesale Sold (MG)	342.376
Wholesale Customers	4	Estimated Pct. Water Loss	22%

Total Distribution System Line Length = 271.58 miles (Distribution: 259.38 miles, Transmission: 12.20 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Hardin County Water District No. 1

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21093039	HCWD #1 - New Elevated Storage Tank	3-5 Years	Not Funded	$4,000,000	Hardin	9	1
WX21093027	Hardin County Water District #1, Vulnerability and Protection Measures	0-2 Years	Not Funded	$120,000	Hardin	37	5
WX21093040	HCWD #1 New Intake and Treatment Upgrade	3-5 Years	Not Funded	$6,115,410	Hardin		
WX21093026	HCWD#1 Automated Meter Reading Conversion	0-2 Years	Not Funded	$1,500,000	Hardin		
WX21093038	HCWD #1 - Hwy 144 Transmission Main Upgrade	0-2 Years	Partially Funded	$1,225,000	Hardin		
WX21093037	HCWD #1 - Hwy 1882 Transmission Main Upgrade	0-2 Years	Partially Funded	$723,000	Hardin		
WX21093043	HCWD#1 Waterline Replacements & Extensions	3-5 Years	Not Funded	$600,000	Hardin		

System Summary for Vine Grove Water Department

PWSID	KY0470440	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	3	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$22.32 per 4,000 gallons.	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$31.04 per 4,000 gallons.	Total Connections	1,765
Residential Customers	1,715	Total Produced (MG)	-
Commercial Customers	50	Total Purchased (MG)	137.633
Institutional Customers	-	Total Inside Usage (MG)	108.300
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	21%

Total Distribution System Line Length = 25.55 miles (Distribution: 25.52 miles, Transmission: 0.03 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Vine Grove Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21093039	HCWD #1 - New Elevated Storage Tank	3-5 Years	Not Funded	$4,000,000	Hardin	9	1

System Summary for West Point Water Department

PWSID	KY0470455	Treats Water	Yes, 1 plant with total capacity of 0.360 MGD.
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	Yes, 2 sources.
Employees	2	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$20.98 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	$20.98 per 4,000 gallons.	Total Connections	488
Residential Customers	415	Total Produced (MG)	28.087
Commercial Customers	19	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	21.952
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	22%
Total Distribution System Line Length = 6.85 miles (Distribution: 6.77 miles, Transmission: 0.09 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for West Point Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21093035	West Point- South Dixie Water Tower	3-5 Years	Not Funded	$925,000	Hardin	19	3

Larue County

- 2010 census population of 14,193 (6,172 households) with 85% serviceable.
- Projected 2020 population of 14,961 (change of 768).
- Larue County has 401.02 miles of existing water lines.
- 4.00 miles of line extensions proposed in the next 10 years.
- 4.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $5,096,000.
- There are no projects planned from 6 to 10 years.



Larue County has a 2010 census population count of 14,193 (6,172 households) with a projected 2020 population count of 14,961 (6,069 households). Public water is currently available to approximately 85 percent of the county's households based on 2010 census counts. Over the next ten years approximately 34 serviceable households will be added through the construction of 4.00 miles of water line extensions and approximately 4,425 instances of improved service through the rehabilitation of 4.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Hodgenville	5	$2,377,000	4	375	1.00	4.00	-
Green-Taylor Water District	1	$634,000	5	-	3.00	-	-
Larue County Water District #1	6	$2,085,000	25	4,050	-	-	-
Totals:	**12**	**$5,096,000**	**34**	**4,425**	**4.00**	**4.00**	**-**

Community Drinking Water Systems in Larue County

Note: Serviceability counts are for households within Larue county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0620200	Hodgenville Water Works	Larue	2,002	845
KY0620237	Larue County Water District #1	Larue	7,374	3,174
KY0440167	Green-Taylor Water District	Green	60	29
KY0470175	Hardin County Water District #2	Hardin	1,066	492
KY0500166	Green River Valley Water District	Hart	1,640	726
		Totals:	12,142	5,266

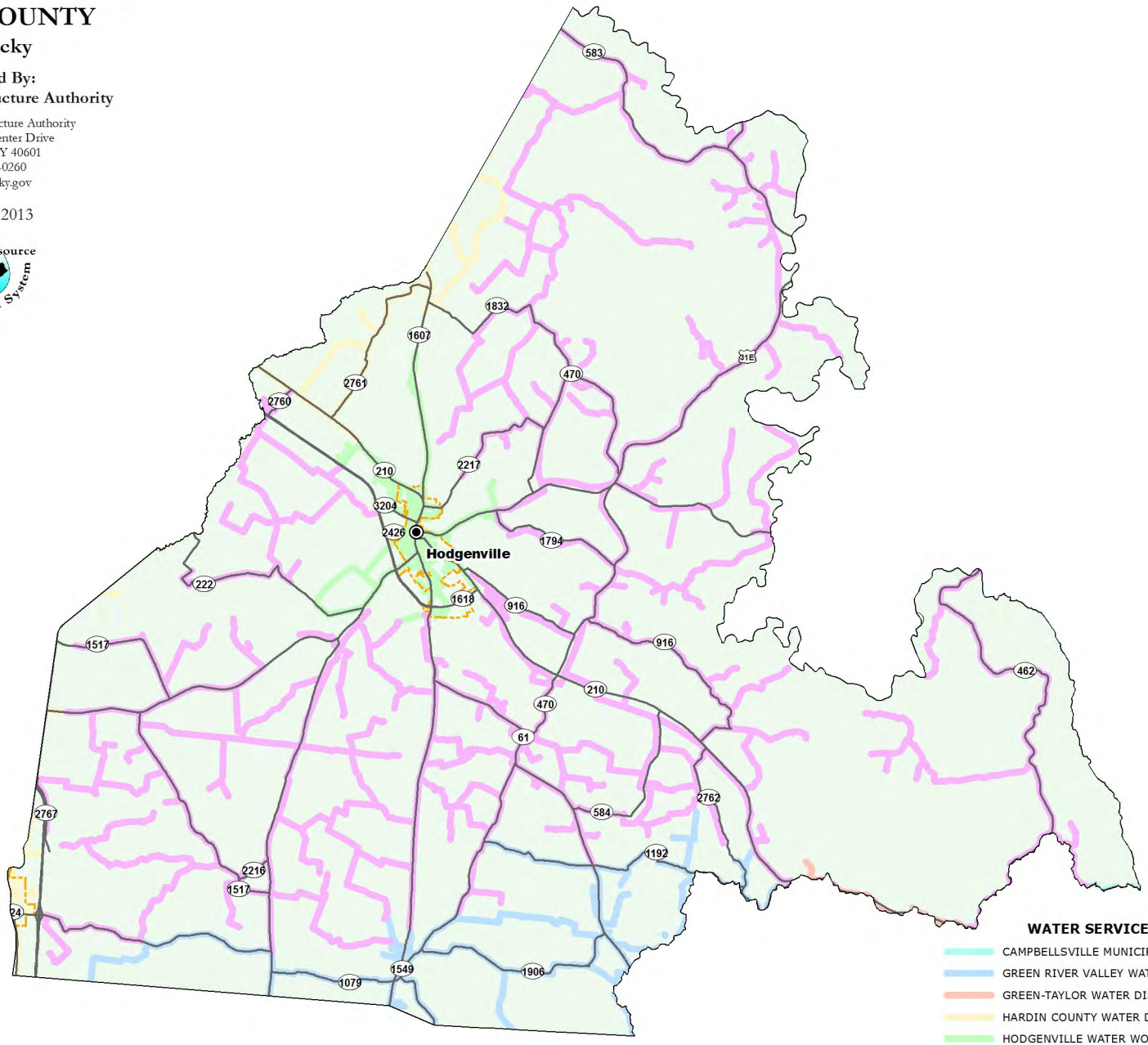
WATER SERVICE AREAS
LARUE COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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January, 2013

Water Resource Information System



System Summary for Hodgenville Water Works

PWSID	KY0620200	Treats Water	Yes, 1 plant with total capacity of 1.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	3	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$27.02 per 4,000 gallons.	Storage Capacity	Yes, 4 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$41.41 per 4,000 gallons.	Total Connections	1,840
Residential Customers	1,601	Total Produced (MG)	214.120
Commercial Customers	192	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	148.083
Industrial Customers	-	Total Wholesale Sold (MG)	39.650
Wholesale Customers	1	Estimated Pct. Water Loss	12%
Total Distribution System Line Length = 43.35 miles (Distribution: 18.11 miles, Transmission: 25.24 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Hodgenville Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21123008	Lincoln Blvd. South Replacement	0-2 Years	Not Funded	$593,000	Larue	17	1
WX21123017	Hodgenville Phase 1a Water System Improvements	3-5 Years	Not Funded	$962,000	Larue	32	4
WX21123020	Hodgenville Smith Plaza Tower Replacement/Upgrade	3-5 Years	Not Funded	$300,000	Larue		
WX21123018	Hodgenville 1618 Water Main Project	0-2 Years	Not Funded	$272,000	Larue		
WX21123021	Hodgenville Shepherdsville Road Line Extension Project	3-5 Years	Not Funded	$250,000	Larue		

System Summary for Larue County Water District #1

PWSID	KY0620237	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	7	Wholesale Purchaser	Yes, from 7 providers.
Non-Municipal Cost	$34.79 per 4,000 gallons.	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 9 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	3,415
Residential Customers	3,372	Total Produced (MG)	-
Commercial Customers	46	Total Purchased (MG)	180.880
Institutional Customers	-	Total Inside Usage (MG)	166.542
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	1	Estimated Pct. Water Loss	8%

Total Distribution System Line Length = 353.88 miles (Distribution: 352.58 miles, Transmission: 1.30 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Larue County Water District #1

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21123025	Larue Co. W.D. - Hwy 84 Pump Station	3-5 Years	Not Funded	$250,000	Larue	20	3
WX21099029	GRVWD - Water Treatment Plant Expansion	0-2 Years	Not Funded	$12,000,000	Hart	21	3
WX21123024	Larue Co. Water District #1 GIS Technology	0-2 Years	Not Funded	$85,000	Larue	28	5
WX21123026	Larue Co. W.D. - Meter Tap Upgrade	0-2 Years	Not Funded	$50,000	Larue	31	2
WX21123006	LCWD Waterline Upgrade	0-2 Years	Partially Funded	$750,000	Larue		
WX21123007	LCWD Water Storage Tank	0-2 Years	Partially Funded	$500,000	Larue		
WX21123016	Larue County Water District #1: Howardstown Water Tower and Line Extensions	0-2 Years	Partially Funded	$450,000	Larue		
WX21123022	Larue Co. W.D. - White City Tank Renovation	3-5 Years	Not Funded	$450,000	Larue		

Marion County

- 2010 census population of 19,820 (8,182 households) with 99% serviceable.
- Projected 2020 population of 21,424 (change of 1,604).
- Marion County has 505.98 miles of existing water lines.
- 15.00 miles of line extensions proposed in the next 10 years.
- 5.00 miles of line rehabilitation proposed in the next 10 years.
- 12.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $12,491,745.
- Estimated funding needs for projects from 6 to 10 years: $290,400.



Marion County has a 2010 census population count of 19,820 (8,182 households) with a projected 2020 population count of 21,424 (8,332 households). Public water is currently available to approximately 99 percent of the county's households based on 2010 census counts. Over the next ten years approximately 6 serviceable households will be added through the construction of 15.00 miles of water line extensions and approximately 6,423 instances of improved service through the rehabilitation of 5.00 miles of existing water lines and other appurtenances. 12.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Lebanon	3	$2,200,000	-	-	1.00	-	2.00
Lebanon Water Works Company Inc	3	$3,950,000	-	103	-	2.00	10.00
Marion County Water District	7	$6,632,145	6	6,320	14.00	3.00	-
Totals:	**13**	**$12,782,145**	**6**	**6,423**	**15.00**	**5.00**	**12.00**

Community Drinking Water Systems in Marion County

Note: Serviceability counts are for households within Marion county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0780241	Lebanon Water Works Co Inc	Marion	6,115	2,840
KY0780268	Marion County Water District	Marion	13,278	5,175
KY1090060	Campbellsville Municipal Water & Sewer System	Taylor	176	75
		Totals:	19,569	8,090

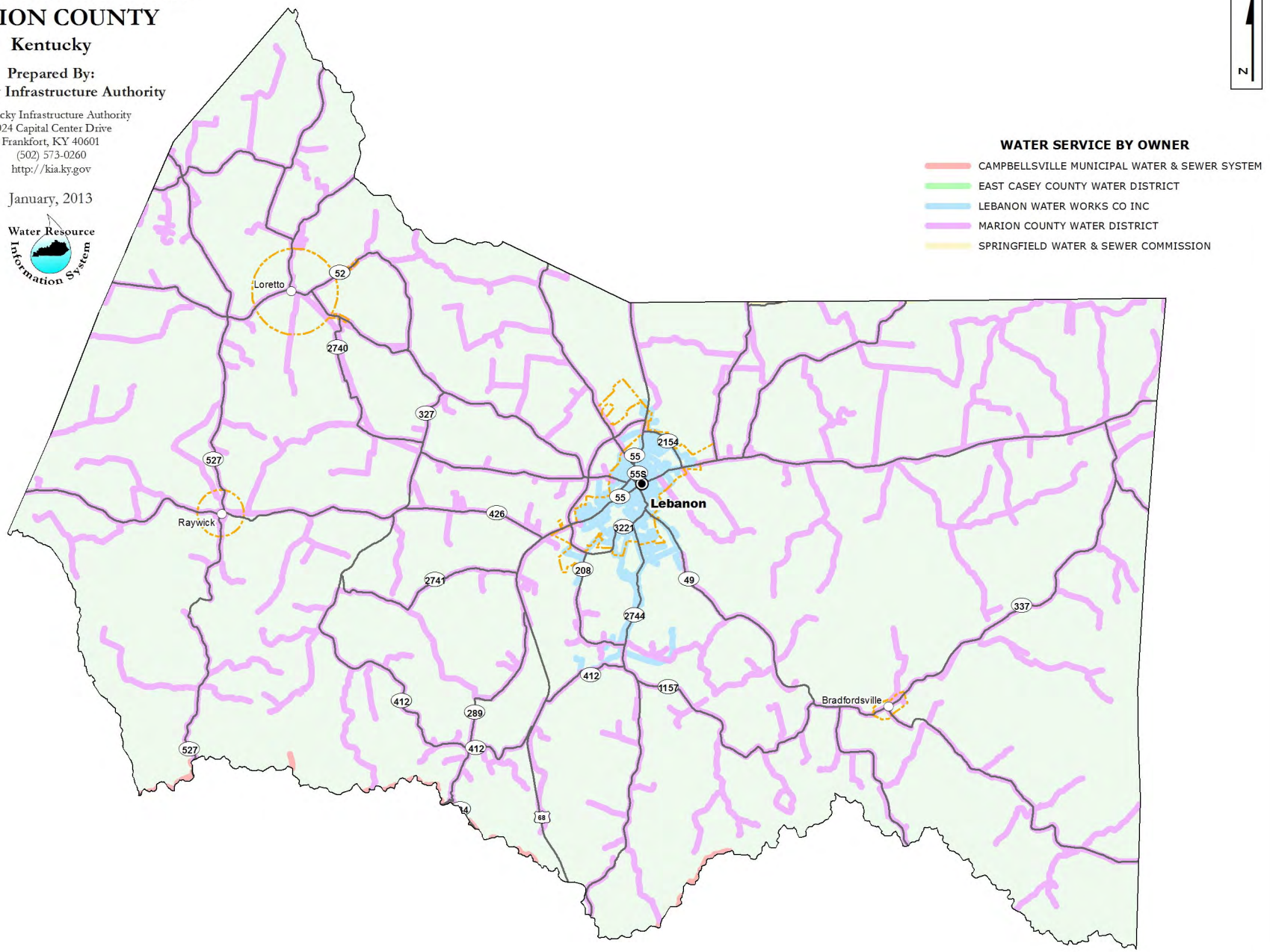
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Kentucky

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January, 2013

Water Resource Information System



System Summary for Lebanon Water Works Co Inc

PWSID	KY0780241	Treats Water	Yes, 1 plant with total capacity of 5.200 MGD.
System Type	Community	Surface Source	Yes, 2 sources.
Owner Type	Municipal Utility Board or Commission	Groundwater Source	No
Employees	12	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$17.44 per 4,000 gallons.	Storage Capacity	Yes, 3 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	$19.19 per 4,000 gallons.	Total Connections	2,581
Residential Customers	2,498	Total Produced (MG)	832.221
Commercial Customers	45	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	295.800
Industrial Customers	38	Total Wholesale Sold (MG)	429.455
Wholesale Customers	1	Estimated Pct. Water Loss	13%
Total Distribution System Line Length = 66.62 miles (Distribution: 56.42 miles, Transmission: 10.19 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Lebanon Water Works Co Inc

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21155040	Lebanon Water Co. Woodlawn Ave. Replacement	3-5 Years	Not Funded	$600,000	Marion	6	2
WX21155023	Lebanon Water Works Co. Calvary Rd Waterline Replacement	3-5 Years	Not Funded	$1,200,000	Marion	18	5
WX21217023	Campbellsville Regional Water System Improvements	3-5 Years	Not Funded	$5,951,000	Taylor		
WX21155039	Marion Co. and Taylor Co. Interconnect	3-5 Years	Not Funded	$3,230,000	Marion		
WX21155017	Marion Co. Water Dist. / Campbellsville Water Transmission Main	3-5 Years	Not Funded	$2,468,885	Marion		
WX21155024	Lebanon Water Works Co. Emergency Backup Power at WTP	0-2 Years	Not Funded	$659,000	Marion		
WX21155028	Lebanon Waterworks Corporate Dr. Watermain	3-5 Years	Not Funded	$600,000	Marion		
WX21155029	Lebanon Waterworks WTP Disinfection Upgrades	3-5 Years	Not Funded	$400,000	Marion		
WX21155041	Lebanon Water Works Loretto Road Replacement	0-2 Years	Not Funded	$120,000	Marion		

System Summary for Marion County Water District

PWSID	KY0780268	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	7	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	$24.42 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 8 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	5,658
Residential Customers	5,578	Total Produced (MG)	-
Commercial Customers	159	Total Purchased (MG)	434.470
Institutional Customers	5	Total Inside Usage (MG)	386.638
Industrial Customers	5	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	11%

Total Distribution System Line Length = 477.10 miles (Distribution: 459.36 miles, Transmission: 17.74 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Marion County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21155036	Marion County Water District Lebanon Bypass Elevated Tank	3-5 Years	Not Funded	$2,055,000	Marion	3	1
WX21155035	Marion County Water District Telemetry Project	0-2 Years	Not Funded	$265,200	Marion	13	3
WX21155022	Marion County Water District McElroy Phase 2 Water System Extens	3-5 Years	Not Funded	$660,000	Marion	33	4
WX21155039	Marion Co. and Taylor Co. Interconnect	3-5 Years	Not Funded	$3,230,000	Marion		
WX21155017	Marion Co. Water Dist. / Campbellsville Water Transmission Main	3-5 Years	Not Funded	$2,468,885	Marion		
WX21155033	Marion Co. Water District Tank Improvements Phase I	3-5 Years	Not Funded	$622,760	Marion		
WX21155037	Marion County Water District Highway 49N Phase II	3-5 Years	Not Funded	$350,000	Marion		
WX21155034	Marion Co. Water District Tank Improvements Phase II	6-10 Years	Not Funded	$290,400	Marion		
WX21155032	Marion Co. Water District McElroy Phase 3	3-5 Years	Not Funded	$269,900	Marion		

Meade County

- 2010 census population of 28,602 (11,762 households) with 78% serviceable.
- Projected 2020 population of 30,901 (change of 2,299).
- Meade County has 391.72 miles of existing water lines.
- 12.00 miles of line extensions proposed in the next 10 years.
- 4.00 miles of line rehabilitation proposed in the next 10 years.
- 7.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $7,000,683.
- There are no projects planned from 6 to 10 years.



Meade County has a 2010 census population count of 28,602 (11,762 households) with a projected 2020 population count of 30,901 (11,964 households). Public water is currently available to approximately 78 percent of the county's households based on 2010 census counts. Over the next ten years approximately 235 serviceable households will be added through the construction of 12.00 miles of water line extensions and approximately 4,227 instances of improved service through the rehabilitation of 4.00 miles of existing water lines and other appurtenances. 7.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Brandenburg	3	$1,199,900	-	227	-	4.00	-
Hardin County Water District #1	2	$1,948,000	-	-	-	-	-
Meade County Water District	2	$3,852,783	235	4,000	12.00	-	7.00
Totals:	**7**	**$7,000,683**	**235**	**4,227**	**12.00**	**4.00**	**7.00**

Community Drinking Water Systems in Meade County

Note: Serviceability counts are for households within Meade county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0820041	Brandenburg Water Works	Meade	3,318	1,420
KY0820369	Meade County Water District	Meade	15,899	6,177
KY0820481	Muldraugh Water Department	Meade	947	539
KY0470393	Hardin County Water District No. 1	Hardin	579	228
		Totals:	20,743	8,364

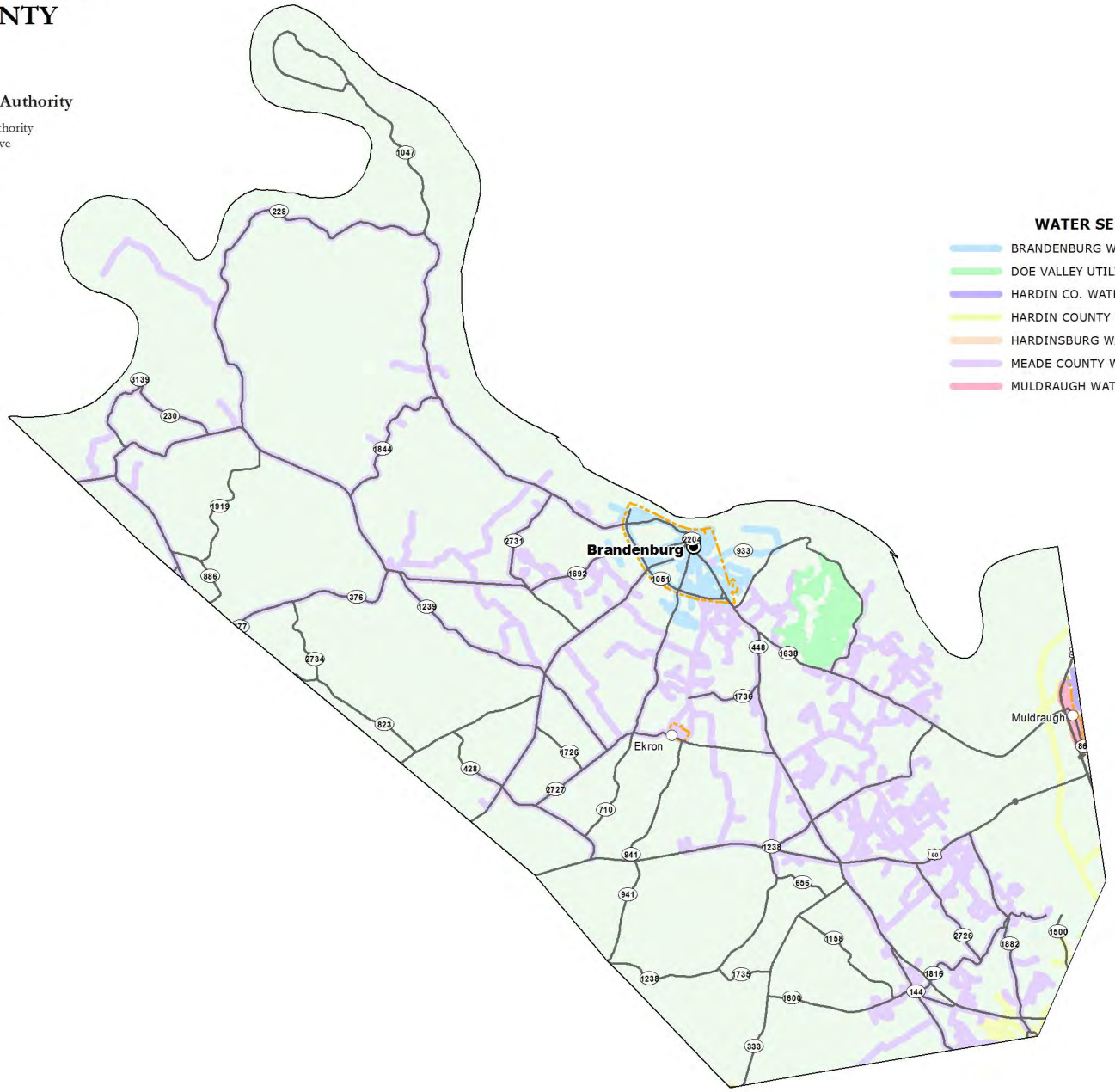
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January, 2013

Water Resource Information System



System Summary for Brandenburg Water Works

PWSID	KY0820041	Treats Water	Yes, 1 plant with total capacity of 1.000 MGD.
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	Yes, 3 sources.
Employees	6	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$16.35 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	$25.23 per 4,000 gallons.	Total Connections	1,318
Residential Customers	1,140	Total Produced (MG)	247.652
Commercial Customers	175	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	118.175
Industrial Customers	2	Total Wholesale Sold (MG)	120.605
Wholesale Customers	1	Estimated Pct. Water Loss	4%
Total Distribution System Line Length = 41.94 miles (Distribution: 40.18 miles, Transmission: 1.76 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Brandenburg Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21163008	Brandenburg Ground Level Water Storage Tank	3-5 Years	Not Funded	$500,000	Meade		
WX21163006	Brandenburg Waterline Replacements	3-5 Years	Partially Funded	$399,900	Meade		

System Summary for Meade County Water District

PWSID	KY0820369	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	11	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	$31.70 per 4,000 gallons.	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 3 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	4,489
Residential Customers	4,277	Total Produced (MG)	-
Commercial Customers	208	Total Purchased (MG)	325.238
Institutional Customers	2	Total Inside Usage (MG)	216.534
Industrial Customers	-	Total Wholesale Sold (MG)	59.240
Wholesale Customers	1	Estimated Pct. Water Loss	15%

Total Distribution System Line Length = 295.14 miles (Distribution: 294.30 miles, Transmission: 0.84 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Meade County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21163016	Phase VIII Water System Improvements/ Meade Co. Water District	3-5 Years	Not Funded	$2,000,000	Meade	2	2
WX21163002	MeCWD - KY 1638 Transmission Main	0-2 Years	Not Funded	$1,852,783	Meade		

System Summary for Muldraugh Water Department

PWSID	KY0820481	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	3	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$20.50 per 4,000 gallons.	Storage Capacity	No
Outside Mun. Cost	-	Total Connections	389
Residential Customers	332	Total Produced (MG)	-
Commercial Customers	50	Total Purchased (MG)	28.671
Institutional Customers	-	Total Inside Usage (MG)	24.564
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	14%

Total Distribution System Line Length = 6.84 miles (Distribution: 6.84 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Muldraugh Water Department

Nelson County

- 2010 census population of 43,437 (18,075 households) with 98% serviceable.
- Projected 2020 population of 50,119 (change of 6,682).
- Nelson County has 693.47 miles of existing water lines.
- 15.00 miles of line extensions proposed in the next 10 years.
- 9.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $7,863,100.
- There are no projects planned from 6 to 10 years.



Nelson County has a 2010 census population count of 43,437 (18,075 households) with a projected 2020 population count of 50,119 (20,219 households). Public water is currently available to approximately 98 percent of the county's households based on 2010 census counts. Over the next ten years approximately 43 serviceable households will be added through the construction of 15.00 miles of water line extensions and approximately 948 instances of improved service through the rehabilitation of 9.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Bardstown	1	$1,500,000	6	-	9.00	-	-
City of Bloomfield	3	$2,725,000	32	-	4.00	-	-
City of New Haven	7	$1,239,500	-	734	-	2.00	-
Larue County Water District #1	2	$900,000	4	-	1.00	-	-
Marion County Water District	1	$350,000	-	65	-	3.00	-
Nelson County Fiscal Court	1	$300,000	1	-	1.00	-	-
North Nelson Water District	2	$848,600	-	149	-	4.00	-
Totals:	**17**	**$7,863,100**	**43**	**948**	**15.00**	**9.00**	**-**

Community Drinking Water Systems in Nelson County

Note: Serviceability counts are for households within Nelson county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0900017	Bardstown Municipal Water Department	Nelson	25,016	10,572
KY0900031	Bloomfield Water & Sewer Department	Nelson	4,191	1,790
KY0900312	New Haven Municipal Water Works	Nelson	1,351	579
KY0900323	North Nelson Water District	Nelson	8,889	3,520
KY0150242	Lebanon Junction Water Works	Bullitt	22	11
KY0620237	Larue County Water District #1	Larue	1,671	674
KY0780268	Marion County Water District	Marion	1,398	590
KY1080425	Taylorsville Water Works	Spencer	45	20
		Totals:	42,583	17,756

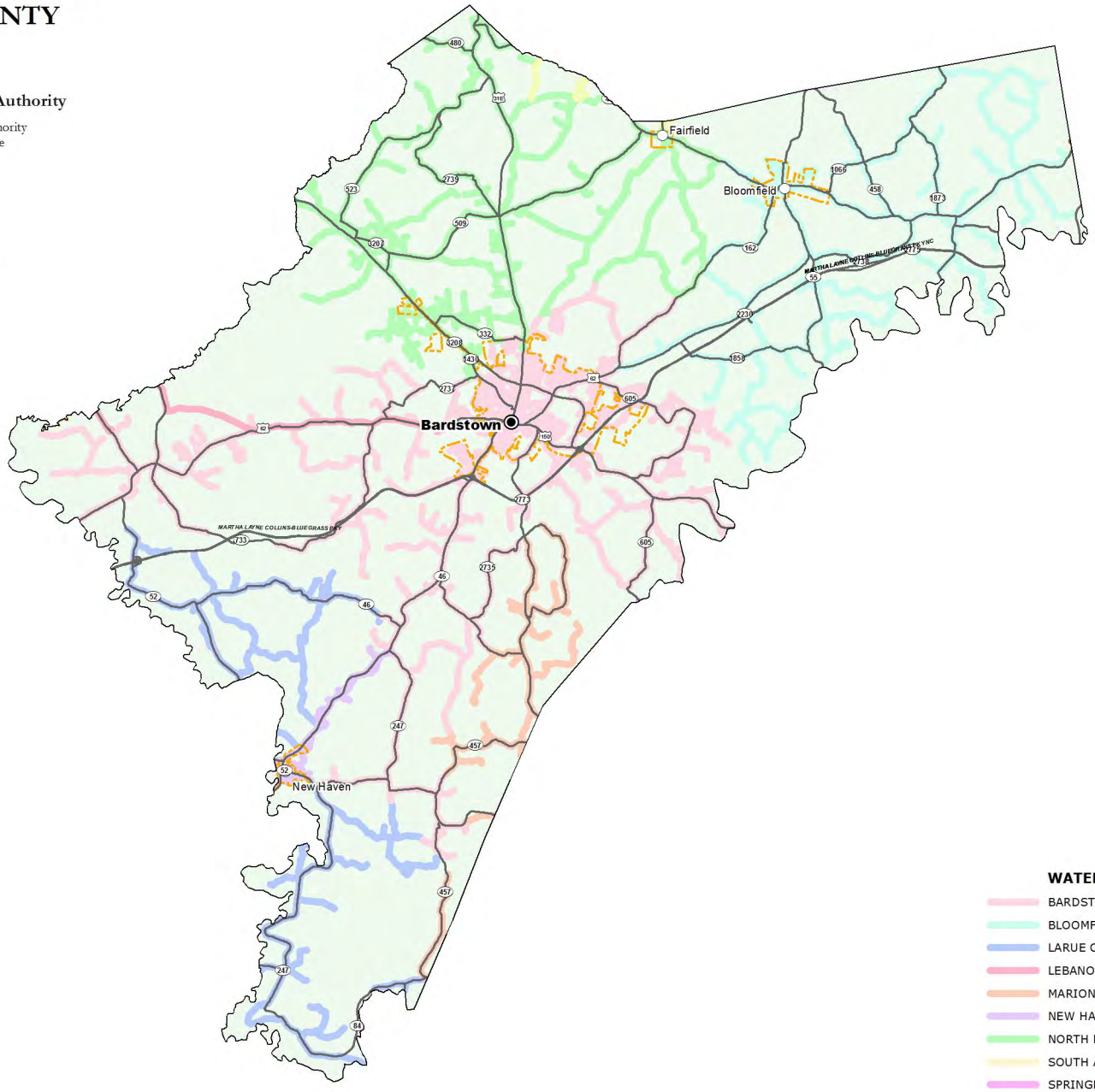
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Water Resource Information System



WATER SERVICE BY OWNER

- BARDSTOWN MUNICIPAL WATER DEPARTMENT
- BLOOMFIELD WATER & SEWER DEPARTMENT
- LARUE COUNTY WATER DISTRICT #1
- LEBANON JUNCTION WATER WORKS
- MARION COUNTY WATER DISTRICT
- NEW HAVEN MUNICIPAL WATER WORKS
- NORTH NELSON WATER DISTRICT
- SOUTH ANDERSON WATER DISTRICT
- SPRINGFIELD WATER & SEWER COMMISSION
- TAYLORSVILLE WATER WORKS

System Summary for Bardstown Municipal Water Department

PWSID	KY0900017	Treats Water	Yes, 1 plant with total capacity of 8.000 MGD.
System Type	Community	Surface Source	Yes, 2 sources.
Owner Type	Incorporated City	Groundwater Source	No
Employees	25	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 5 purchasers.
Inside Mun. Cost	$17.09 per 4,000 gallons.	Storage Capacity	Yes, 13 tanks with total capacity of 4.000 MG.
Outside Mun. Cost	$21.97 per 4,000 gallons.	Total Connections	11,039
Residential Customers	9,815	Total Produced (MG)	1,796.154
Commercial Customers	1,206	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	1,002.960
Industrial Customers	13	Total Wholesale Sold (MG)	438.810
Wholesale Customers	5	Estimated Pct. Water Loss	20%
Total Distribution System Line Length = 293.50 miles (Distribution: 292.96 miles, Transmission: 0.53 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Bardstown Municipal Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21179020	City of Bardstown-Boston Water Improvements	3-5 Years	Not Funded	$1,500,000	Nelson		
WX21179019	Nelson County Fiscal Court Industrial Park: Water Phase 2	3-5 Years	Not Funded	$300,000	Nelson		

System Summary for Bloomfield Water & Sewer Department

PWSID	KY0900031	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	5	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$19.72 per 4,000 gallons.	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$33.61 per 4,000 gallons.	Total Connections	1,916
Residential Customers	1,869	Total Produced (MG)	-
Commercial Customers	44	Total Purchased (MG)	156.397
Institutional Customers	-	Total Inside Usage (MG)	129.810
Industrial Customers	1	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	17%
Total Distribution System Line Length = 110.33 miles (Distribution: 110.27 miles, Transmission: 0.05 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Bloomfield Water & Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21179014	Bloomfield Water System Improvements	3-5 Years	Not Funded	$800,000	Nelson	8	1
WX21179015	Bloomfield Water Line Extensions and Telemetry	3-5 Years	Not Funded	$675,000	Nelson	30	3
WX21179016	City of Bloomfield Water Storage Tank	3-5 Years	Not Funded	$1,250,000	Nelson		

System Summary for New Haven Municipal Water Works

PWSID	KY0900312	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	4	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$29.10 per 4,000 gallons.	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$31.45 per 4,000 gallons.	Total Connections	690
Residential Customers	571	Total Produced (MG)	-
Commercial Customers	52	Total Purchased (MG)	47.861
Institutional Customers	-	Total Inside Usage (MG)	35.526
Industrial Customers	-	Total Wholesale Sold (MG)	12.335
Wholesale Customers	1	Estimated Pct. Water Loss	0%
Total Distribution System Line Length = 15.09 miles (Distribution: 14.42 miles, Transmission: 0.66 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for New Haven Municipal Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21179024	New Haven Downtown Waterline Replacement	3-5 Years	Not Funded	$250,000	Nelson	24	2
WX21179026	City of New Haven - East Center St. Waterline & Hydrant Replacement	3-5 Years	Not Funded	$247,000	Nelson		
WX21179025	City of New Haven - Main St. & Ridgeview Dr. Replacement	3-5 Years	Not Funded	$226,000	Nelson		
WX21179023	City of New Haven - Center & Mill St. Waterline Replacement	3-5 Years	Not Funded	$200,000	Nelson		
WX21179028	City of New Haven Hydrant & Gate Valve Replacement	0-2 Years	Not Funded	$156,000	Nelson		
WX21179027	City of New Haven - New SCADA (Telemtry System)	3-5 Years	Not Funded	$90,500	Nelson		
WX21179029	City of New Haven - Price Creek Waterline Replacement	3-5 Years	Not Funded	$70,000	Nelson		

System Summary for North Nelson Water District

PWSID	KY0900323	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	7	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	$22.12 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 4 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	-	Total Connections	4,303
Residential Customers	4,186	Total Produced (MG)	-
Commercial Customers	72	Total Purchased (MG)	290.761
Institutional Customers	-	Total Inside Usage (MG)	262.415
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	10%
Total Distribution System Line Length = 213.36 miles (Distribution: 213.27 miles, Transmission: 0.09 miles).			

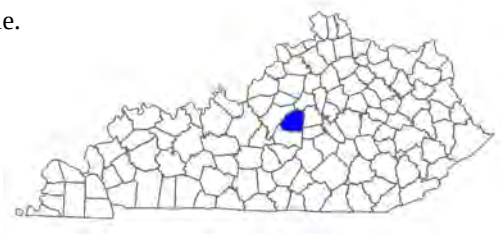
MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for North Nelson Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21179010	North Nelson Hwy 245 Replacement	3-5 Years	Not Funded	$450,500	Nelson	25	4
WX21179009	North Nelson KY 48 / Murrays Run & Samuels Upgrade	0-2 Years	Not Funded	$398,100	Nelson		
WX21215080	Max Rouse Road	3-5 Years	Not Funded	$196,416	Spencer		
WX21215079	Louisville Road- Highway 31 East	3-5 Years	Not Funded	$168,960	Spencer		

Washington County

- 2010 census population of 11,717 (5,044 households) with 98% serviceable.
- Projected 2020 population of 12,486 (change of 769).
- Washington County has 431.28 miles of existing water lines.
- 2.00 miles of line extensions proposed in the next 10 years.
- 12.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $8,596,220.
- There are no projects planned from 6 to 10 years.



Washington County has a 2010 census population count of 11,717 (5,044 households) with a projected 2020 population count of 12,486 (4,958 households). Public water is currently available to approximately 98 percent of the county's households based on 2010 census counts. Over the next ten years approximately 8 serviceable households will be added through the construction of 2.00 miles of water line extensions and approximately 4,845 instances of improved service through the rehabilitation of 12.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Springfield	1	$1,500,000	-	-	-	-	-
Springfield Water and Sewer Commission	5	$7,096,220	8	4,845	2.00	12.00	-
Totals:	**6**	**$8,596,220**	**8**	**4,845**	**2.00**	**12.00**	**-**

Community Drinking Water Systems in Washington County

Note: Serviceability counts are for households within Washington county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY1150415	Springfield Water & Sewer Commission	Washington	10,390	4,488
KY0840321	North Mercer Water District	Mercer	825	361
KY0900017	Bardstown Municipal Water Department	Nelson	151	70
		Totals:	11,366	4,919

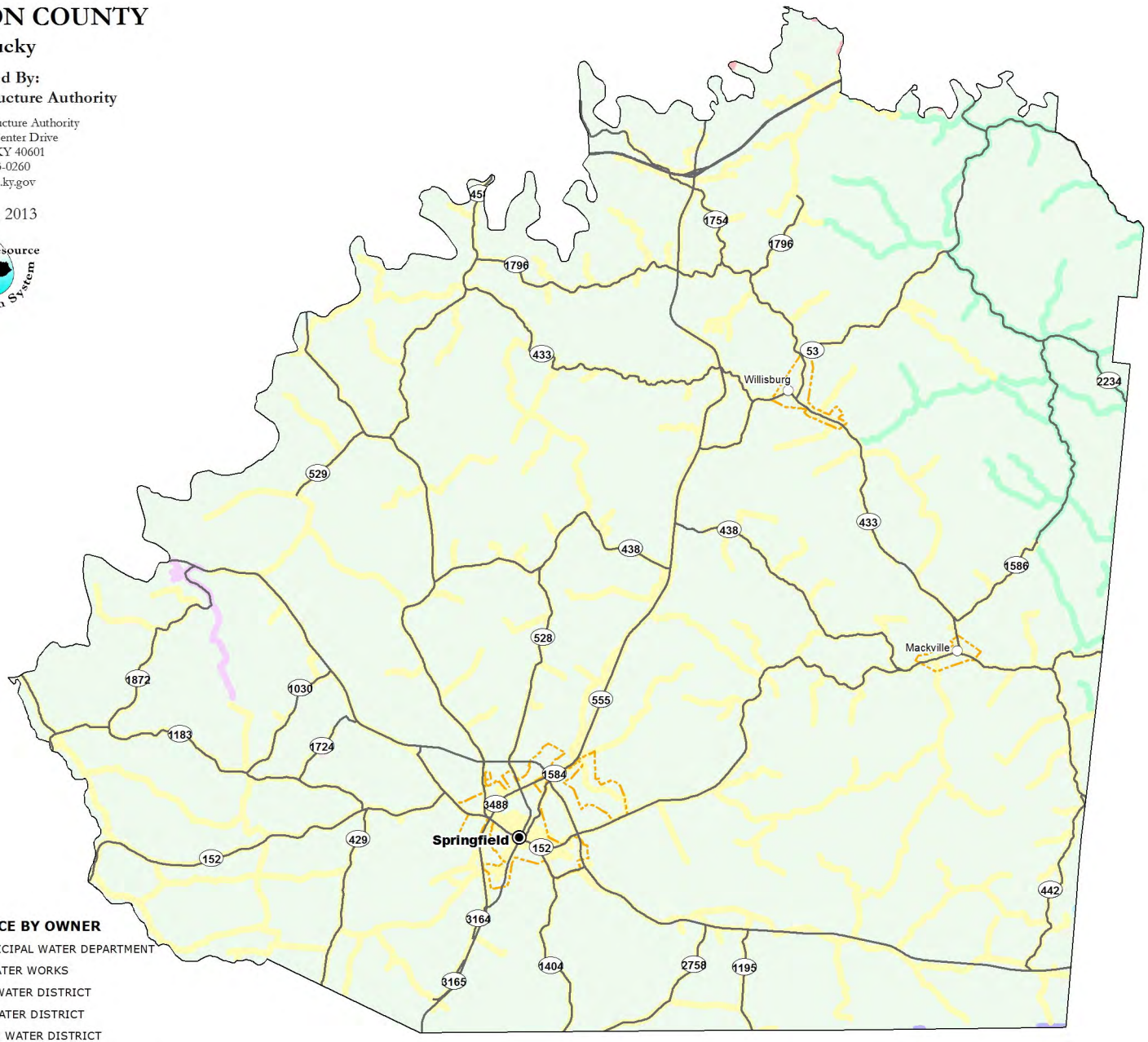
WATER SERVICE AREAS
WASHINGTON COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

Kentucky Infrastructure Authority
1024 Capital Center Drive
Frankfort, KY 40601
(502) 573-0260
http://kia.ky.gov

January, 2013

Water Resource Information System



WATER SERVICE BY OWNER

- BARDSTOWN MUNICIPAL WATER DEPARTMENT
- DANVILLE CITY WATER WORKS
- MARION COUNTY WATER DISTRICT
- NORTH MERCER WATER DISTRICT
- SOUTH ANDERSON WATER DISTRICT
- SPRINGFIELD WATER & SEWER COMMISSION

System Summary for Springfield Water & Sewer Commission

PWSID	KY1150415	Treats Water	Yes, 1 plant with total capacity of 3.000 MGD.
System Type	Community	Surface Source	Yes, 2 sources.
Owner Type	Municipal Utility Board or Commission	Groundwater Source	No
Employees	14	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$21.57 per 4,000 gallons.	Storage Capacity	Yes, 9 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	$48.48 per 4,000 gallons.	Total Connections	4,322
Residential Customers	4,058	Total Produced (MG)	398.000
Commercial Customers	252	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	357.648
Industrial Customers	12	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	10%

Total Distribution System Line Length = 376.94 miles (Distribution: 364.56 miles, Transmission: 12.38 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Springfield Water & Sewer Commission

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21229009	Springfield Danville Interconnect	0-2 Years	Not Funded	$250,000	Washington	1	1
WX21229010	Springfield - Willisburg Lake Improvements	3-5 Years	Not Funded	$1,500,000	Washington	21	3
WX21229011	US 150 Bypass Water Main Extension	0-2 Years	Not Funded	$940,000	Washington	26	2
WX21229005	City of Springfield Waterline Replacement/Upgrade	3-5 Years	Not Funded	$1,000,000	Washington	34	4
WX21229008	Springfield Water Supply Study	0-2 Years	Not Funded	$100,000	Washington	36	
WX21229002	Springfield Water Treatment Plant Upgrade	3-5 Years	Not Funded	$4,306,220	Washington		
WX21229006	Springfield New Raw Water Pump	3-5 Years	Not Funded	$750,000	Washington		

Northern Kentucky Area Development District (NKADD)

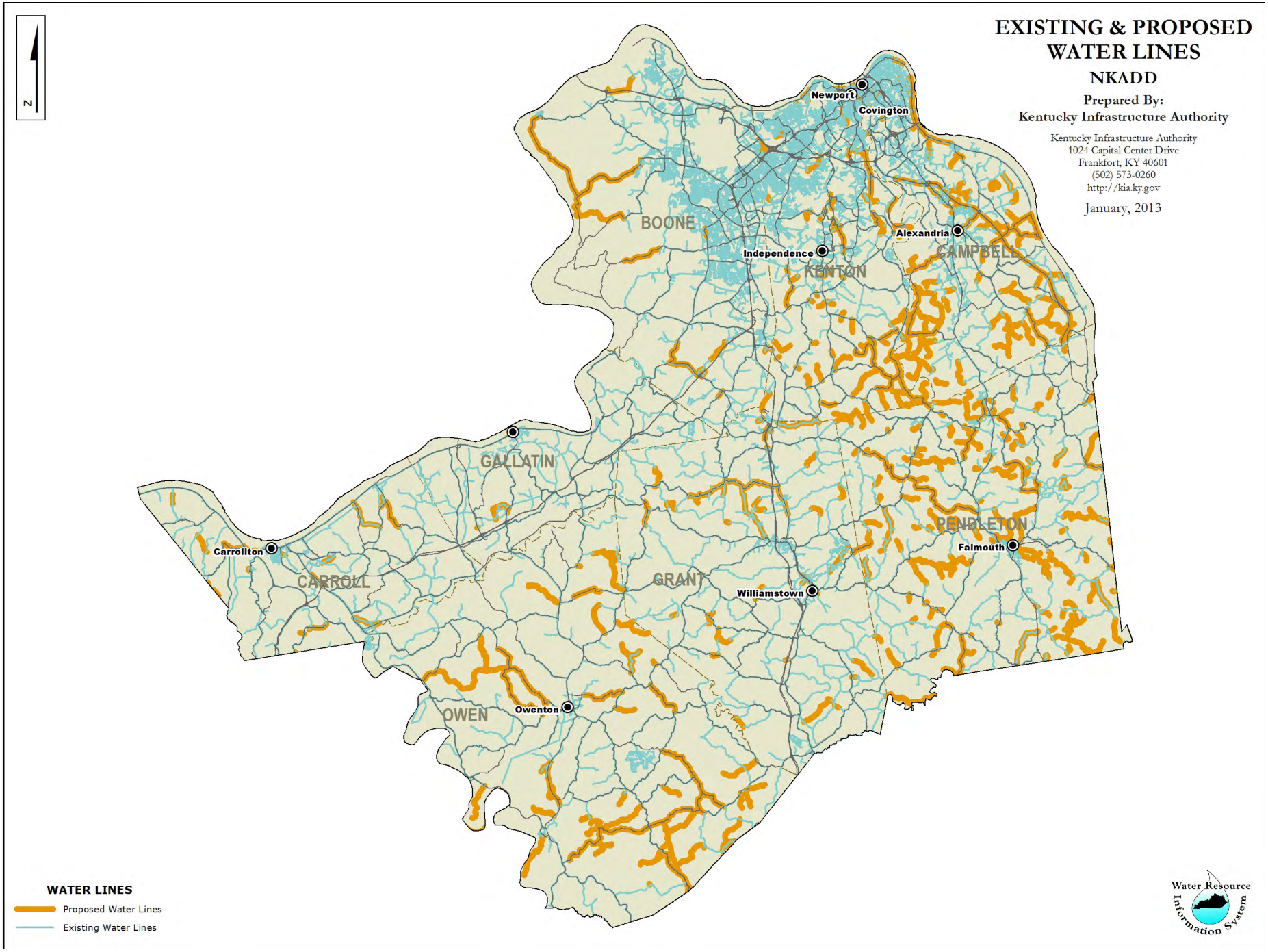


- 2010 census population of 438,647 (185,049 households) with 97% serviceable.
- Projected 2020 population of 488,377 (change of 49,730).
- 3,569.54 miles of existing water lines.
- 433.00 miles of line extensions proposed in the next 10 years.
- 41.00 miles of line rehabilitation proposed in the next 10 years.
- 2.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $190,388,264.
- Estimated funding needs for projects from 6 to 10 years: $40,140,592.
- Average age of structures: water treatment plants is 38 years; water tanks is 9 years.
- Total number of interconnected systems is 24.
- 45 miles of asbestos concrete pipe currently in use.
- 706 miles of water lines less than 15 years old.
- 833 miles of water lines between 15 and 30 years old.
- 1,541 miles of water lines between 31 and 50 years old.
- 206 miles of water lines between 51 and 70 years old.
- 253 miles of water lines greater than 70 years old.

Northern Kentucky Area Development District has a 2010 census population count of 438,647 (185,049 households) with a projected 2020 population count of 488,377 (194,345 households). Public water is currently available to approximately 97 percent of the district's households based on 2010 census counts. Over the next ten years approximately 3,004 serviceable households will be added through the construction of 433.00 miles of water line extensions and approximately 202,914 instances of improved service through the rehabilitation of 41.00 miles of existing water lines and other appurtenances. 2.00 miles of transmission lines are also proposed within this district.

County Summary for Northern Kentucky Area Development District

County Name	2010 Population	2010 Households	2020 Population	2020 Households	Serviceable Households	Percent Serviceable	Planned Cost 0 to 10 Years
Boone	118,811	46,154	153,933	59,951	44,336	96%	$ 36,008,147
Campbell	90,336	39,523	91,642	37,713	38,588	98%	$ 53,436,668
Carroll	10,811	4,696	11,440	4,408	4,620	98%	$ 470,000
Gallatin	8,589	3,786	9,264	3,592	3,711	98%	$ 661,500
Grant	24,662	9,942	26,917	9,870	9,789	99%	$ 58,874,753
Kenton	159,720	68,975	168,458	68,111	67,790	98%	$ 46,377,157
Owen	10,841	5,634	11,336	4,713	4,850	86%	$ 13,893,318
Pendleton	14,877	6,339	15,387	5,987	5,809	92%	$ 20,807,313
Totals	**438,647**	**185,049**	**488,377**	**194,345**	**179,493**	**97%**	**$ 230,528,856**


EXISTING & PROPOSED
WATER LINES
NKADD
Prepared By:
Kentucky Infrastructure Authority
Kentucky Infrastructure Authority
1024 Capital Center Drive
Frankfort, KY 40601
(502) 573-0260
http://kia.ky.gov
January, 2013
N
BOONE
KENTON
CAMPBELL
GALLATIN
CARROLL
GRANT
PENDLETON
OWEN
Newport
Covington
Alexandria
Independence
Carrollton
Falmouth
Williamstown
Owenton
WATER LINES
Proposed Water Lines
Existing Water Lines
Water Resource Information System

Community Water Systems in Northern Kentucky Area Development District County

Note: Serviceable counts include households outside the area development district.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0080034	Boone County Water District	Boone	75,972	27,865
KY0081013	Boone-Florence Water Commission	Boone	91	57
KY0080135	Florence Water & Sewer Commission	Boone	30,736	13,441
KY0080442	Walton Waterworks Department	Boone	3,902	1,556
KY0210066	Carroll County Water District #1	Carroll	5,926	2,864
KY0210067	Carrollton Utilities	Carroll	4,698	2,000
KY0210008	West Carroll Water District - Carrollton	Carroll	2,376	1,047
KY0210637	West Carroll Water District - Milton	Carroll	95	50
KY0390130	Gallatin County Water District	Gallatin	5,292	2,228
KY0390444	Warsaw Water Works	Gallatin	1,988	948
KY0410047	Bullock Pen Water District	Grant	19,439	7,487
KY0410662	Corinth Water District	Grant	2,964	1,310
KY0410107	Dry Ridge Water Works Commission	Grant	2,035	811
KY0410472	Williamstown Municipal Water Department	Grant	4,593	1,961
KY0590220	Northern Kentucky Water District	Kenton	242,841	105,582
KY0960051	Butler Water Works	Pendleton	617	284
KY0960112	East Pendleton Water District	Pendleton	5,104	2,168
KY0960126	Falmouth Water Department	Pendleton	2,568	1,179
KY0960348	Pendleton County Water District #1 North	Pendleton	4,792	1,953
KY0960499	Pendleton County Water District #1 South	Pendleton	1,393	569
		Totals:	417,422	175,360

Northern Kentucky Area Development District
Needs Assessment

Primary Need: **Extend Services to Unserved Areas**
Secondary Need: **Repair and Replace Existing Infrastructure**

Discussion of Area Development District Needs:

The Northern Kentucky Area Development District's eight counties each have unique challenges. The urban counties have issues with aging infrastructure in the cities in the northern parts, population growth in the suburbs in the middle, and unserved, low density population areas in the south. The rural counties have areas of low density that are a challenge to serve in an economically viable manner, aging infrastructure in the cities, and in some cases, water plants that are at or near capacity.

Description and Determination of Planning Units:

The Northern Kentucky Area Development District is composed of the eight counties of Boone, Campbell, Carroll, Gallatin, Grant, Kenton, Owen, and Pendleton.

Regional Overview - Northern Kentucky ADD
The Northern Kentucky Development District region had an estimated population of 185,000 households in 2012 with a projected population of 194,000 households in 2020. There are approximately 3000 miles of water lines in the region serving about 178,000 households, or about 96% of the region's population. 465 miles of proposed water line extensions for the period 2012-2020 would provide service to an additional 3500 households. About 17,500 people in the region rely on private domestic water systems: 1,500 on wells and 16,000 on hauled water and other sources.

There are 35 public and semi-public water systems serve the region: 19 community systems, 6 non-community systems and 2 non-transient non-community systems.

The NKADD Water Management Council reviewed the water systems and their service areas located within the Northern Kentucky Area Development District. The Council designated the Northern Kentucky Area Development District boundary as the regional management area. Within NKADD, the following water systems and their respective water management planning areas were designated by the Council:

1. Boone County Water Management Planning Area
   - Boone County Water District
   - Florence Water & Sewer Commission
   - Walton Waterworks Department

2. Kenton/Campbell Water Management Planning Area
   - Northern Kentucky Water District

3. Carroll County Water Management Planning Area
   - Carrollton Utilities
   - West Carroll Water District
   - Carroll County Water District #1

4. Gallatin County Water Management Planning Area
   - Gallatin County Water District
   - Warsaw Water Works

5. Grant County Water Management Planning Area
   - Bullock Pen Water District
   - Corinth Water District
   - Dry Ridge Water Works Commission
   - Williamstown Municipal Water Department

6. Owen County Water Management Planning Area
   - Kentucky American Water Company

7. Pendleton County Water Management Planning Area
   - Pendleton County Water District #1
   - East Pendleton Water District
   - Butler Water Works
   - Falmouth Water Department

Northern Kentucky Area Development District
Project Ranking Methodology

The Water Management Council created a subcommittee to develop a ranking methodology for NKADD. This was based on the methodology created by KIA along with modifications instituted by other ADDs. A point system was developed that looked at several aspects of the projects based on the following criteria:

- Consolidation or regionalization of systems
- Local rankings
- Number of unserved/underserved customers affected
- Cost per household
- Amount of planning and development work completed
- Capacity to provide wastewater service (for waterline extensions)
- Local funding

A meeting is held with each Planning Unit to rank their projects. The projects are scored using a matrix developed from the established criteria. At the Water Management Council meeting, these scores are used the rank the projects for the whole ADD. NKADD uses a tiered system so that each Planning Units number one project is in the top 8: the highest number one project is first, the second highest number one project is second, the third highest number one project is third … until all of the projects ranked by the Planning Units are ranked for the whole ADD.

Project Rankings For Northern Kentucky Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21081001	Williamstown - New Water Treatment Plant	0-2 Years	Partially Funded	$17,249,165	Grant	1	1
WX21041003	500K Carroll and Gallatin County Hwy. 42 Elevated Industrial Tan	0-2 Years	Not Funded	$1,706,000	Carroll	2	1
WX21191004	2014 Pendleton County Water Project	0-2 Years	Not Funded	$1,310,424	Pendleton	3	1
WX21037311	NKWD - Newport/Bellevue/Dayton Water Main Replacement Project	0-2 Years	Not Funded	$5,000,000	Campbell	4	1
WX21117303	NKWD - Kenton County Unserved Water Project 2013 (Subdistrict O)	0-2 Years	Not Funded	$3,965,808	Kenton	5	10
WX21015400	Boone County Rural Water Project - Phase II	0-2 Years	Partially Funded	$9,910,000	Boone	6	1
WX21037310	NKWD - Campbell County Unserved and Underserved Project 2012 - Subdistrict J	0-2 Years	Not Funded	$5,202,600	Campbell	7	2
WX21015301	Boone-Florence Water Commission - Northwest Water Storage Tank	0-2 Years	Not Funded	$5,000,000	Boone	8	2
WX21191003	Water Storage Reservoir Repair and Roof Replacement	0-2 Years	Not Funded	$548,709	Pendleton	9	2
WX21117212	NKWD - Covington Water Main Replacement Project	0-2 Years	Not Funded	$5,000,000	Kenton	10	20
WX21041004	CCWD - Fairview 170K Tank Improvements	3-5 Years	Not Funded	$203,600	Carroll	11	2
WX21081005	City of Dry Ridge 200,000 Gallon Elevated Tank	0-2 Years	Not Funded	$785,735	Grant	12	2
WX21015510	Goodridge Avenue Water Main Relining	0-2 Years	Not Funded	$600,000	Boone	13	3
WX21081305	Bullock Pen - Raw Water Intake	0-2 Years	Not Funded	$95,000	Grant	14	3
WX21117002	Latonia Lakes Water Main Replacement Project	0-2 Years	Partially Funded	$1,834,917	Kenton	15	30
WX21037005	City of Mentor Water Main Replacement Project	0-2 Years	Not Funded	$661,926	Campbell	16	3
WX21015514	BCWD - Williams Rd. to Garrison Creek Rd. Phase A	3-5 Years	Not Funded	$1,296,200	Boone	17	4
WX21081002	2012 Water System Improvements	0-2 Years	Not Funded	$100,000	Grant	18	4
WX21117003	Campbell and Kenton County Water Main Replacement and SCADA Impr	0-2 Years	Not Funded	$5,425,000	Kenton	19	40
WX21117210	NKWD - Emergency Power Generation for Taylor Mill Water Treatment Plant and Licking River Pump Station	0-2 Years	Not Funded	$8,900,000	Kenton	20	50
			Total Cost:	**$74,795,084**			

Boone County

- 2010 census population of 118,811 (46,154 households) with 96% serviceable.
- Projected 2020 population of 153,933 (change of 35,122).
- Boone County has 718.72 miles of existing water lines.
- 26.00 miles of line extensions proposed in the next 10 years.
- 5.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $36,008,147.
- There are no projects planned from 6 to 10 years.



Boone County has a 2010 census population count of 118,811 (46,154 households) with a projected 2020 population count of 153,933 (59,951 households). Public water is currently available to approximately 96 percent of the county's households based on 2010 census counts. Over the next ten years approximately 507 serviceable households will be added through the construction of 26.00 miles of water line extensions and approximately 11,590 instances of improved service through the rehabilitation of 5.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Boone County Fiscal Court	1	$9,910,000	234	-	10.00	-	-
Boone County Water District	5	$9,623,547	265	-	14.00	-	-
Boone-Florence Water Commission	2	$8,900,000	-	9,000	-	-	-
Bullock Pen Water District	1	$1,549,600	8	2,500	2.00	4.00	-
City of Florence	1	$600,000	-	90	-	1.00	-
Northern Kentucky Water District	1	$5,425,000	-	-	-	-	-
Totals:	**11**	**$36,008,147**	**507**	**11,590**	**26.00**	**5.00**	**-**

Community Drinking Water Systems in Boone County

Note: Serviceability counts are for households within Boone county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0080034	Boone County Water District	Boone	75,794	27,796
KY0081013	Boone-Florence Water Commission	Boone	91	57
KY0080135	Florence Water & Sewer Commission	Boone	29,953	13,121
KY0080442	Walton Waterworks Department	Boone	3,846	1,529
KY0390130	Gallatin County Water District	Gallatin	119	58
KY0410047	Bullock Pen Water District	Grant	3,144	1,158
KY0590220	Northern Kentucky Water District	Kenton	1,457	617
		Totals:	114,404	44,336

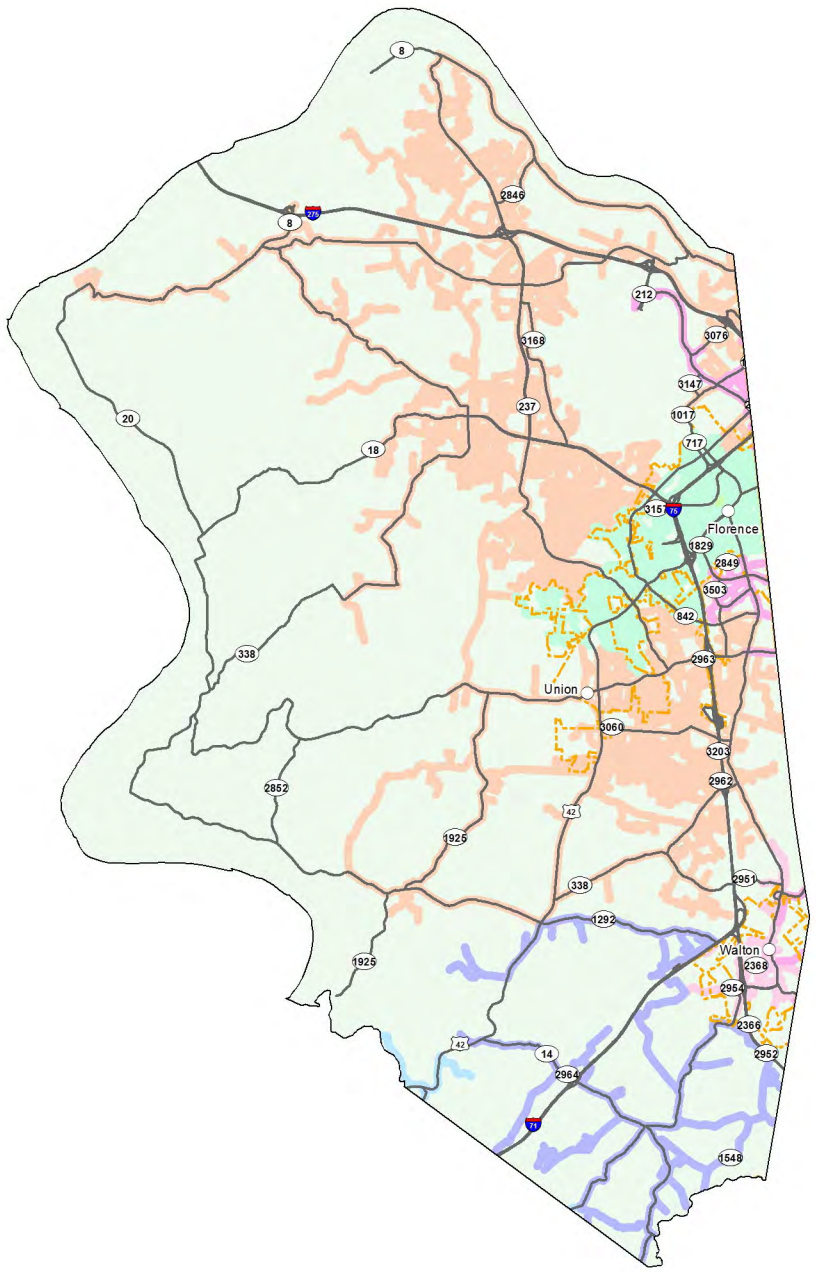
WATER SERVICE AREAS
BOONE COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

Kentucky Infrastructure Authority
1024 Capital Center Drive
Frankfort, KY 40601
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http://kia.ky.gov

January, 2013

Water Resource Information System



WATER SERVICE BY OWNER

- BOONE COUNTY WATER & SEWER DISTRICT
- BOONE-FLORENCE WATER COMMISSION
- BULLOCK PEN WATER DISTRICT
- FLORENCE WATER & SEWER COMMISSION
- GALLATIN COUNTY WATER DISTRICT
- NORTHERN KENTUCKY WATER DISTRICT
- WALTON WATERWORKS DEPARTMENT

System Summary for Boone County Water District

PWSID	KY0080034	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	27	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	$21.14 per 4,000 gallons.	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 5 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	-	Total Connections	24,000
Residential Customers	22,740	Total Produced (MG)	-
Commercial Customers	1,101	Total Purchased (MG)	2,900.000
Institutional Customers	-	Total Inside Usage (MG)	2,313.600
Industrial Customers	16	Total Wholesale Sold (MG)	62.000
Wholesale Customers	1	Estimated Pct. Water Loss	18%

Total Distribution System Line Length = 481.58 miles (Distribution: 481.58 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Boone County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21015400	Boone County Rural Water Project - Phase II	0-2 Years	Partially Funded	$9,910,000	Boone	6	1
WX21015301	Boone-Florence Water Commission - Northwest Water Storage Tank	0-2 Years	Not Funded	$5,000,000	Boone	8	2
WX21015514	BCWD - Williams Rd. to Garrison Creek Rd. Phase A	3-5 Years	Not Funded	$1,296,200	Boone	17	4
WX21015302	Boone-Florence Water Commission - Southeast Water Storage Tank	3-5 Years	Not Funded	$3,900,000	Boone		
WX21015409	BCWD/Boone County Rural Water Project - Phase C (Eastbend, Waterloo,McVille)	3-5 Years	Not Funded	$2,909,500	Boone		
WX21015517	BCWD - Phase C1 Burlington Pike (Belleview Rd to Green Acres Ln)	3-5 Years	Not Funded	$2,909,500	Boone		
WX21015411	BCWD/Boone County Rural Water Project - Phase E Belleview RdPetersburg)	3-5 Years	Not Funded	$2,226,320	Boone		
WX21015516	BCWD - Arbor Springs to Old Union Rd. Phase B	3-5 Years	Not Funded	$282,027	Boone		

System Summary for Boone-Florence Water Commission

PWSID	KY0081013	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Regional Water Commission	Groundwater Source	No
Employees	1	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$21.14 per 4,000 gallons.	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	-	Storage Capacity	No
Outside Mun. Cost	-	Total Connections	2
Residential Customers	-	Total Produced (MG)	-
Commercial Customers	-	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	-
Industrial Customers	-	Total Wholesale Sold (MG)	3,900.000
Wholesale Customers	2	Estimated Pct. Water Loss	

Total Distribution System Line Length = 0.46 miles (Distribution: 0.46 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Boone-Florence Water Commission

System Summary for Florence Water & Sewer Commission

PWSID	KY0080135	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	14	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$22.70 per 4,000 gallons.	Storage Capacity	Yes, 2 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	7,557
Residential Customers	5,434	Total Produced (MG)	-
Commercial Customers	3,300	Total Purchased (MG)	1,000.000
Institutional Customers	-	Total Inside Usage (MG)	897.363
Industrial Customers	27	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	10%

Total Distribution System Line Length = 138.47 miles (Distribution: 138.47 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Florence Water & Sewer Commission

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21015510	Goodridge Avenue Water Main Relining	0-2 Years	Not Funded	$600,000	Boone	13	3

System Summary for Walton Waterworks Department

PWSID	KY0080442	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	6	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$28.88 per 4,000 gallons.	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$33.68 per 4,000 gallons.	Total Connections	1,236
Residential Customers	1,056	Total Produced (MG)	-
Commercial Customers	180	Total Purchased (MG)	160.000
Institutional Customers	-	Total Inside Usage (MG)	115.000
Industrial Customers	-	Total Wholesale Sold (MG)	21.000
Wholesale Customers	1	Estimated Pct. Water Loss	15%
Total Distribution System Line Length = 29.54 miles (Distribution: 29.54 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Walton Waterworks Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21117003	Campbell and Kenton County Water Main Replacement and SCADA Impr	0-2 Years	Not Funded	$5,425,000	Kenton	19	40
WX21037004	Campbell County Water Main Rehabilitation and Treatment Plant Pr	0-2 Years	Partially Funded	$5,644,000	Campbell		
WX21037006	Campbell & Kenton County Water Main & Storage Tank Improvements	0-2 Years	Not Funded	$4,447,190	Campbell		

Campbell County

- 2010 census population of 90,336 (39,523 households) with 98% serviceable.
- Projected 2020 population of 91,642 (change of 1,306).
- Campbell County has 528.78 miles of existing water lines.
- 89.00 miles of line extensions proposed in the next 10 years.
- 12.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $32,719,356.
- Estimated funding needs for projects from 6 to 10 years: $20,717,312.



Campbell County has a 2010 census population count of 90,336 (39,523 households) with a projected 2020 population count of 91,642 (37,713 households). Public water is currently available to approximately 98 percent of the county's households based on 2010 census counts. Over the next ten years approximately 821 serviceable households will be added through the construction of 89.00 miles of water line extensions and approximately 30,980 instances of improved service through the rehabilitation of 12.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Northern Kentucky Water District	15	$53,436,668	821	30,980	89.00	12.00	-
Totals:	**15**	**$53,436,668**	**821**	**30,980**	**89.00**	**12.00**	**-**

Community Drinking Water Systems in Campbell County

Note: Serviceability counts are for households within Campbell county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0590220	Northern Kentucky Water District	Kenton	86,508	38,017
KY0960112	East Pendleton Water District	Pendleton	261	98
KY0960348	Pendleton County Water District #1 North	Pendleton	1,221	473
		Totals:	87,990	38,588

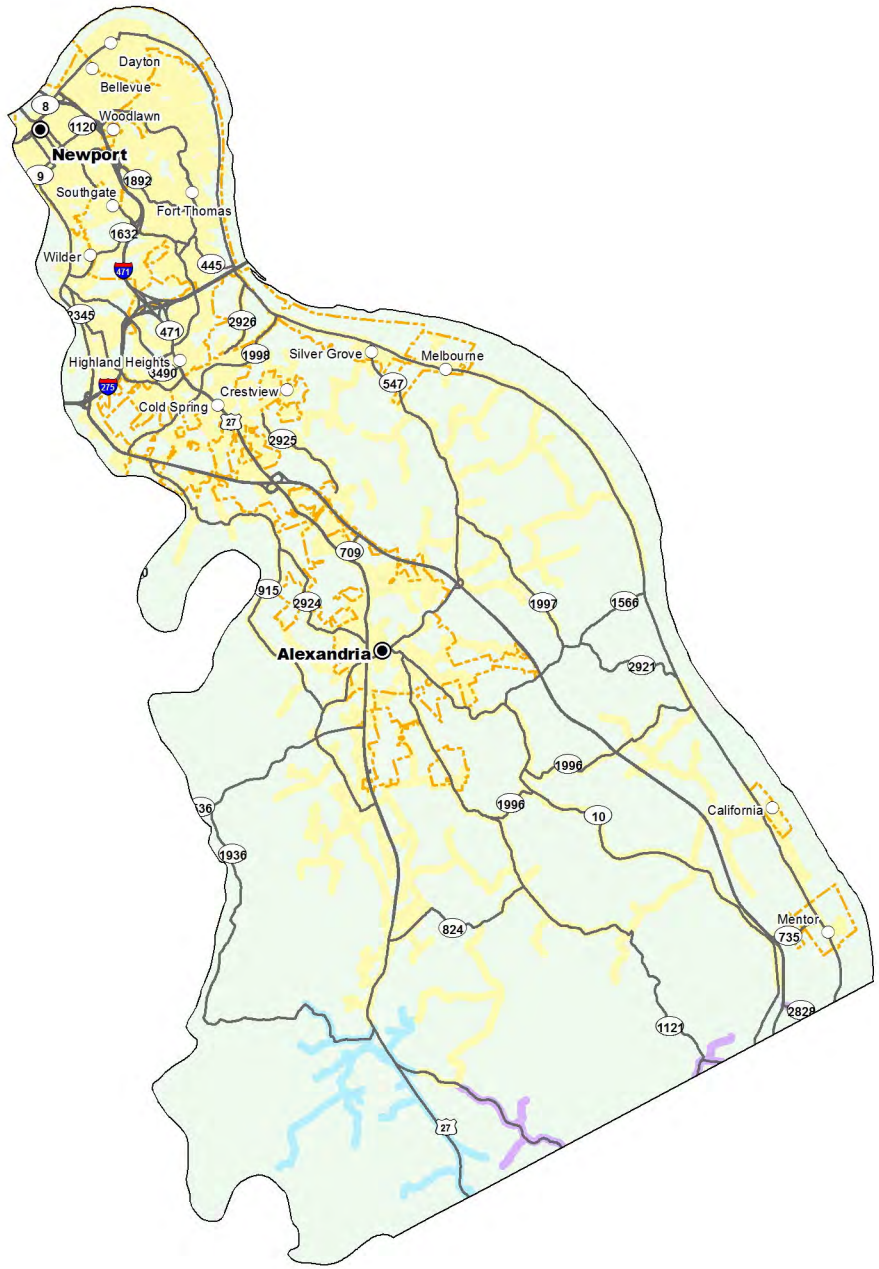
WATER SERVICE AREAS
CAMPBELL COUNTY
Kentucky

Prepared By:
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January, 2013

Water Resource Information System



WATER SERVICE BY OWNER

- EAST PENDLETON WATER DISTRICT
- NORTHERN KENTUCKY WATER DISTRICT
- PENDLETON COUNTY WATER DISTRICT #1 NORTH

Carroll County

- 2010 census population of 10,811 (4,696 households) with 98% serviceable.
- Projected 2020 population of 11,440 (change of 629).
- Carroll County has 233.49 miles of existing water lines.
- There are no line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $470,000.
- There are no projects planned from 6 to 10 years.



Carroll County has a 2010 census population count of 10,811 (4,696 households) with a projected 2020 population count of 11,440 (4,408 households). Public water is currently available to approximately 98 percent of the county's households based on 2010 census counts. Over the next ten years approximately 2,400 instances of improved service through system wide upgrades.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Carroll County Water District #1	2	$470,000	-	2,400	-	-	-
Totals:	**2**	**$470,000**	**-**	**2,400**	**-**	**-**	**-**

Community Drinking Water Systems in Carroll County

Note: Serviceability counts are for households within Carroll county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0210066	Carroll County Water District #1	Carroll	3,806	1,688
KY0210067	Carrollton Utilities	Carroll	4,698	2,000
KY0210008	West Carroll Water District - Carrollton	Carroll	1,934	843
KY0210637	West Carroll Water District - Milton	Carroll	94	49
KY0520192	Henry County Water District #2	Henry	99	37
		Totals:	10,631	4,617

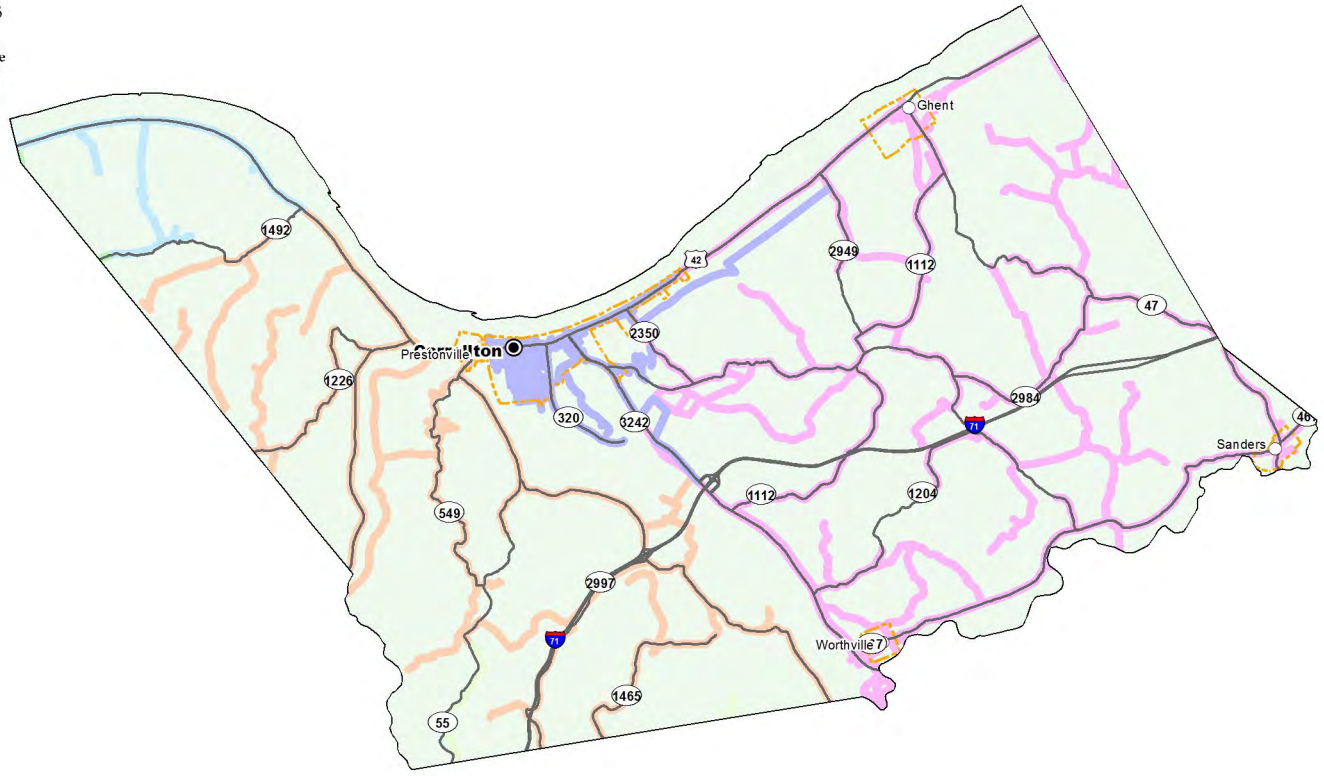
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CARROLL COUNTY
Kentucky

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Water Resource Information System



WATER SERVICE BY OWNER

- CARROLL COUNTY WATER DISTRICT #1
- CARROLLTON UTILITIES
- HENRY COUNTY WATER DISTRICT #2
- MILTON WATER & SEWER DEPARTMENT
- WEST CARROLL WATER DISTRICT - CARROLLTON
- WEST CARROLL WATER DISTRICT - MILTON

System Summary for Carroll County Water District #1

PWSID	KY0210066	Treats Water	Yes, 2 plants with total capacity of 3.020 MGD.
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	Yes, 7 sources.
Employees	8	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$27.75 per 4,000 gallons.	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 13 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	-	Total Connections	2,947
Residential Customers	2,756	Total Produced (MG)	392.000
Commercial Customers	168	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	286.960
Industrial Customers	29	Total Wholesale Sold (MG)	-
Wholesale Customers	1	Estimated Pct. Water Loss	27%
Total Distribution System Line Length = 208.72 miles (Distribution: 208.56 miles, Transmission: 0.15 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Carroll County Water District #1

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21187400	2003 Owen County Fiscal Court - Waterline Extensions	3-5 Years	Partially Funded	$1,500,000	Owen		
WX21077401	Carroll County Water District - KY 1039 Tank and Main	0-2 Years	Not Funded	$661,500	Carroll		
WX21041706	Carroll County Water District - Emergency Generators	0-2 Years	Not Funded	$290,000	Carroll		
WX21041701	Carroll County Water Meter Setter Replacement	0-2 Years	Not Funded	$180,000	Carroll		

System Summary for Carrollton Utilities

PWSID	KY0210067	Treats Water	Yes, 1 plant with total capacity of 1.500 MGD.
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	Yes, 3 sources.
Employees	29	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	$23.33 per 4,000 gallons.	Storage Capacity	Yes, 3 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	$29.50 per 4,000 gallons.	Total Connections	1,604
Residential Customers	1,346	Total Produced (MG)	273.750
Commercial Customers	220	Total Purchased (MG)	-
Institutional Customers	49	Total Inside Usage (MG)	207.000
Industrial Customers	6	Total Wholesale Sold (MG)	64.813
Wholesale Customers	2	Estimated Pct. Water Loss	1%
Total Distribution System Line Length = 37.81 miles (Distribution: 37.81 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Carrollton Utilities

System Summary for West Carroll Water District - Carrollton

PWSID	KY0210008	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	-	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	$39.41 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	972
Residential Customers	875	Total Produced (MG)	-
Commercial Customers	33	Total Purchased (MG)	64.813
Institutional Customers	-	Total Inside Usage (MG)	60.600
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	7%

Total Distribution System Line Length = 79.81 miles (Distribution: 79.81 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for West Carroll Water District - Carrollton

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21223025	Bucks Run Water Line	6-10 Years	Not Funded	$18,500	Trimble		

System Summary for West Carroll Water District - Henry

PWSID	KY0210419	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	-	Wholesale Purchaser	No
Non-Municipal Cost	$39.41 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	
Residential Customers	36	Total Produced (MG)	-
Commercial Customers	-	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	2.246
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	

Total Distribution System Line Length = 0.00 miles (Distribution: 0.00 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for West Carroll Water District - Henry

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21103057	Turkey Run Waterline	3-5 Years	Not Funded	$190,229	Henry	33	5

System Summary for West Carroll Water District - Milton

PWSID	KY0210637	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	-	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$39.41 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	No
Outside Mun. Cost	-	Total Connections	28
Residential Customers	28	Total Produced (MG)	-
Commercial Customers	-	Total Purchased (MG)	1.087
Institutional Customers	-	Total Inside Usage (MG)	1.087
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	0%
Total Distribution System Line Length = 10.14 miles (Distribution: 10.14 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for West Carroll Water District - Milton

Gallatin County

- 2010 census population of 8,589 (3,786 households) with 98% serviceable.
- Projected 2020 population of 9,264 (change of 675).
- Gallatin County has 185.65 miles of existing water lines.
- There are no line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $661,500.
- There are no projects planned from 6 to 10 years.



Gallatin County has a 2010 census population count of 8,589 (3,786 households) with a projected 2020 population count of 9,264 (3,592 households). Public water is currently available to approximately 98 percent of the county's households based on 2010 census counts. Over the next ten years.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Carroll County Water District #1	1	$661,500	-	-	-	-	-
Totals:	**1**	**$661,500**	-	-	-	-	-

Community Drinking Water Systems in Gallatin County

Note: Serviceability counts are for households within Gallatin county only.

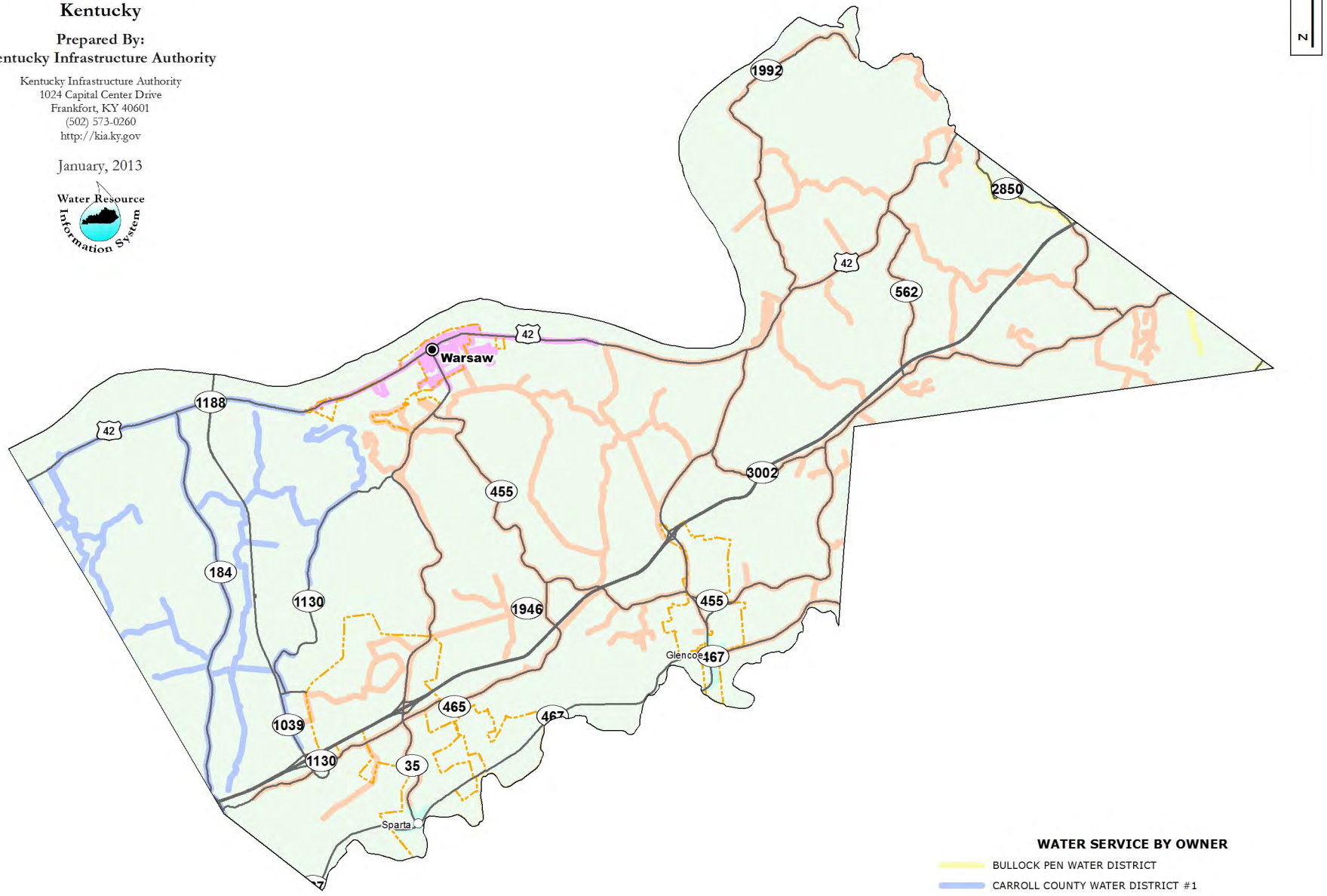
PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0390130	Gallatin County Water District	Gallatin	5,069	2,131
KY0390444	Warsaw Water Works	Gallatin	1,988	948
KY0210066	Carroll County Water District #1	Carroll	900	435
KY0340250	Kentucky-American Water Company	Fayette	309	142
KY0410047	Bullock Pen Water District	Grant	134	55
		Totals:	8,400	3,711

WATER SERVICE AREAS
GALLATIN COUNTY
Kentucky

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January, 2013



System Summary for Gallatin County Water District

PWSID	KY0390130	Treats Water	Yes, 2 plants with total capacity of 2.160 MGD.
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	Yes, 2 sources.
Employees	5	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$30.65 per 4,000 gallons.	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 7 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	2,100
Residential Customers	1,815	Total Produced (MG)	163.334
Commercial Customers	33	Total Purchased (MG)	5.500
Institutional Customers	-	Total Inside Usage (MG)	148.543
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	2	Estimated Pct. Water Loss	12%
Total Distribution System Line Length = 133.74 miles (Distribution: 133.74 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Gallatin County Water District

System Summary for Warsaw Water Works

PWSID	KY0390444	Treats Water	Yes, 2 plants with total capacity of 1.656 MGD.
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	Yes, 4 sources.
Employees	3	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$14.00 per 4,000 gallons.	Storage Capacity	Yes, 2 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	$14.00 per 4,000 gallons.	Total Connections	700
Residential Customers	680	Total Produced (MG)	162.000
Commercial Customers	120	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	140.350
Industrial Customers	1	Total Wholesale Sold (MG)	5.500
Wholesale Customers	1	Estimated Pct. Water Loss	10%
Total Distribution System Line Length = 16.85 miles (Distribution: 16.01 miles, Transmission: 0.84 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Warsaw Water Works

Grant County

- 2010 census population of 24,662 (9,942 households) with 99% serviceable.
- Projected 2020 population of 26,917 (change of 2,255).
- Grant County has 426.05 miles of existing water lines.
- 14.00 miles of line extensions proposed in the next 10 years.
- 17.00 miles of line rehabilitation proposed in the next 10 years.
- 1.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $58,002,753.
- Estimated funding needs for projects from 6 to 10 years: $872,000.



Grant County has a 2010 census population count of 24,662 (9,942 households) with a projected 2020 population count of 26,917 (9,870 households). Public water is currently available to approximately 99 percent of the county's households based on 2010 census counts. Over the next ten years approximately 29 serviceable households will be added through the construction of 14.00 miles of water line extensions and approximately 29,472 instances of improved service through the rehabilitation of 17.00 miles of existing water lines and other appurtenances. 1.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Bullock Pen Water District	7	$6,478,480	-	20,820	4.00	15.00	-
City of Dry Ridge	4	$1,402,935	-	3,479	-	-	-
City of Williamstown	3	$31,947,782	3	3,901	1.00	2.00	1.00
Corinth Water District	3	$906,372	15	1,272	8.00	-	-
Owen County Fiscal Court	1	$3,099,184	-	-	-	-	-
Pendleton County Fiscal Court	1	$15,040,000	11	-	1.00	-	-
Totals:	**19**	**$58,874,753**	**29**	**29,472**	**14.00**	**17.00**	**1.00**

Community Drinking Water Systems in Grant County

Note: Serviceability counts are for households within Grant county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0410047	Bullock Pen Water District	Grant	14,586	5,687
KY0410662	Corinth Water District	Grant	2,820	1,233
KY0410107	Dry Ridge Water Works Commission	Grant	2,035	811
KY0410472	Williamstown Municipal Water Department	Grant	4,586	1,959
KY0340250	Kentucky-American Water Company	Fayette	149	59
KY0390130	Gallatin County Water District	Gallatin	102	38
		Totals:	24,278	9,787

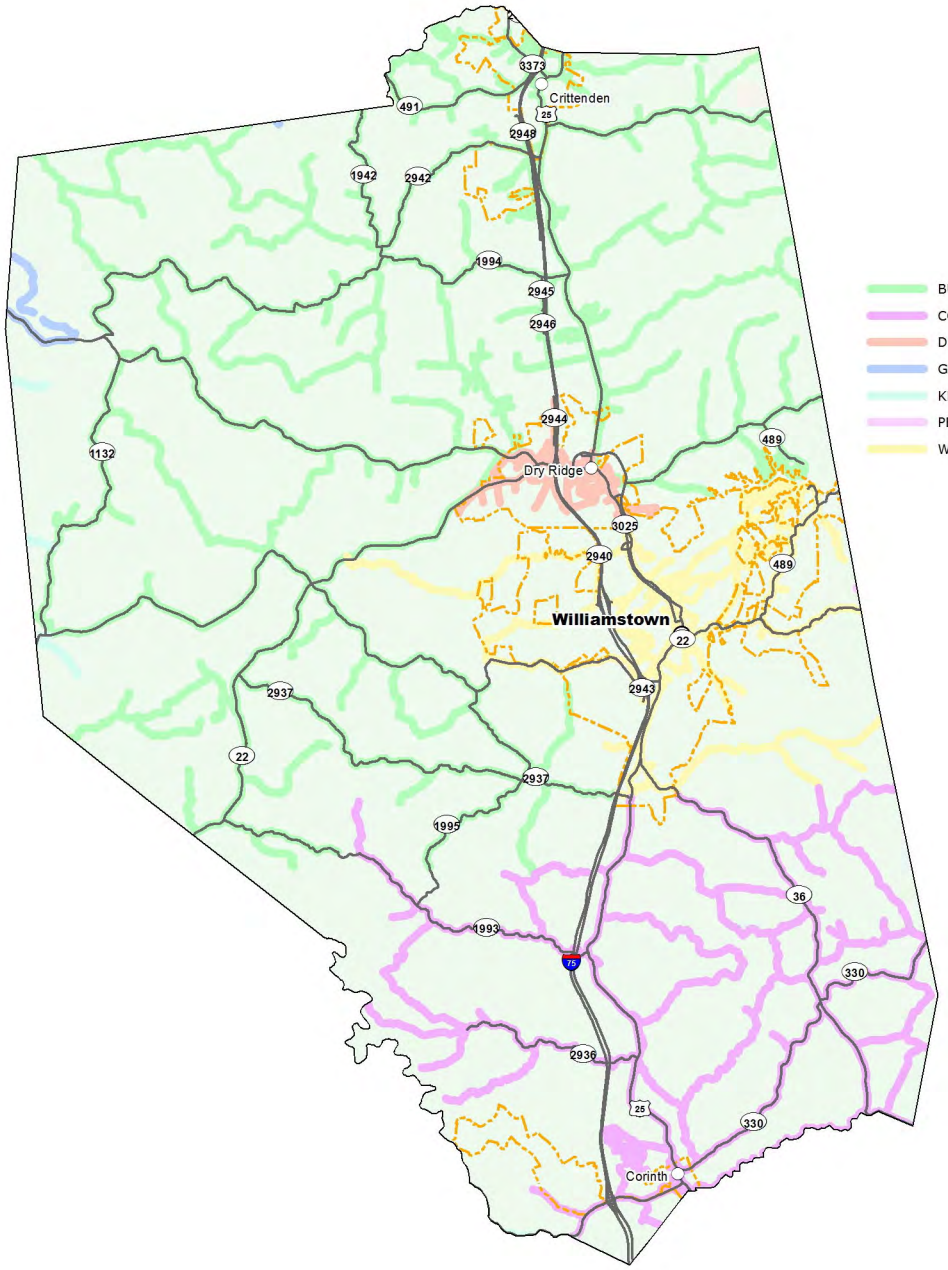
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GRANT COUNTY
Kentucky

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January, 2013

Water Resource Information System



N

WATER SERVICE BY OWNER

- BULLOCK PEN WATER DISTRICT
- CORINTH WATER DISTRICT
- DRY RIDGE WATER WORKS COMMISSION
- GALLATIN COUNTY WATER DISTRICT
- KENTUCKY-AMERICAN WATER COMPANY - NORTHERN DIVISION
- PENDLETON COUNTY WATER DISTRICT #1 NORTH
- WILLIAMSTOWN MUNICIPAL WATER DEPARTMENT

System Summary for Bullock Pen Water District

PWSID	KY0410047	Treats Water	Yes, 1 plant with total capacity of 1.080 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	15	Wholesale Purchaser	Yes, from 6 providers.
Non-Municipal Cost	$44.19 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 6 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	7,080
Residential Customers	6,663	Total Produced (MG)	165.000
Commercial Customers	428	Total Purchased (MG)	304.000
Institutional Customers	7	Total Inside Usage (MG)	413.282
Industrial Customers	5	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	12%

Total Distribution System Line Length = 311.39 miles (Distribution: 303.98 miles, Transmission: 7.41 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Bullock Pen Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21081305	Bullock Pen - Raw Water Intake	0-2 Years	Not Funded	$95,000	Grant	14	3
WX21117003	Campbell and Kenton County Water Main Replacement and SCADA Impr	0-2 Years	Not Funded	$5,425,000	Kenton	19	40
WX21037004	Campbell County Water Main Rehabilitation and Treatment Plant Pr	0-2 Years	Partially Funded	$5,644,000	Campbell		
WX21037006	Campbell & Kenton County Water Main & Storage Tank Improvements	0-2 Years	Not Funded	$4,447,190	Campbell		
WX21081003	Bullock Pen Improvements Phase 13	0-2 Years	Not Funded	$1,585,200	Grant		
WX21015006	Bullock Pen Water District - Boone County Master Meter and Improvements	0-2 Years	Not Funded	$1,549,600	Boone		
WX21081303	Bullock Pen - Dry Ridge-Mt. Zion Rd. Water Line Replacement	3-5 Years	Not Funded	$1,343,900	Grant		
WX21081314	Bullock Pen Water District - Sherman Mt. Zion Water Line Replacement	3-5 Years	Not Funded	$1,122,000	Grant		
WX21081315	Bullock Pen Water District - Gardnersville Tank	3-5 Years	Not Funded	$900,000	Grant		
WX21081312	Bullock Pen - Southwest Water Storage Tank	6-10 Years	Not Funded	$872,000	Grant		
WX21081306	Bullock Pen - Phase II Water System Improvements	3-5 Years	Not Funded	$560,380	Grant		
WX21081316	Bullock Pen - Golds Valley Water Line - Owen County	3-5 Years	Not Funded	$477,700	Owen		

System Summary for Corinth Water District

PWSID	KY0410662	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	2	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$56.81 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	1,237
Residential Customers	1,115	Total Produced (MG)	-
Commercial Customers	356	Total Purchased (MG)	70.000
Institutional Customers	-	Total Inside Usage (MG)	60.521
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	14%

Total Distribution System Line Length = 102.38 miles (Distribution: 102.27 miles, Transmission: 0.11 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Corinth Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21081002	2012 Water System Improvements	0-2 Years	Not Funded	$100,000	Grant	18	4
WX21081701	Corinth - Phase VI Water System Extensions	3-5 Years	Not Funded	$606,372	Grant		
WX21081702	Corinth WD - Water System Upgrade / Autoread Meter System	3-5 Years	Not Funded	$200,000	Grant		

System Summary for Dry Ridge Water Works Commission

PWSID	KY0410107	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	4	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$23.10 per 4,000 gallons.	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	839
Residential Customers	799	Total Produced (MG)	-
Commercial Customers	116	Total Purchased (MG)	84.000
Institutional Customers	-	Total Inside Usage (MG)	73.320
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	1	Estimated Pct. Water Loss	13%

Total Distribution System Line Length = 24.03 miles (Distribution: 24.03 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Dry Ridge Water Works Commission

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21081005	City of Dry Ridge 200,000 Gallon Elevated Tank	0-2 Years	Not Funded	$785,735	Grant	12	2
WX21081204	City of Dry Ridge - 2008 Water System Improvements	3-5 Years	Not Funded	$267,000	Grant		
WX21081004	City of Dry Ridge Automated Meter Reading Project	0-2 Years	Not Funded	$190,200	Grant		
WX21081501	Dry Ridge Booster Pump Upgrade	3-5 Years	Not Funded	$160,000	Grant		

System Summary for Williamstown Municipal Water Department

PWSID	KY0410472	Treats Water	Yes, 1 plant with total capacity of 2.250 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	8	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 4 purchasers.
Inside Mun. Cost	$24.20 per 4,000 gallons.	Storage Capacity	Yes, 4 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	$40.27 per 4,000 gallons.	Total Connections	1,830
Residential Customers	1,698	Total Produced (MG)	493.000
Commercial Customers	125	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	225.136
Industrial Customers	9	Total Wholesale Sold (MG)	215.000
Wholesale Customers	4	Estimated Pct. Water Loss	11%
Total Distribution System Line Length = 71.38 miles (Distribution: 70.17 miles, Transmission: 1.21 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Williamstown Municipal Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21081001	Williamstown - New Water Treatment Plant	0-2 Years	Partially Funded	$17,249,165	Grant	1	1
WX21081016	Williamstown Water Treatment Plant Upgrade	3-5 Years	Not Funded	$12,837,000	Grant		
WX21081019	City of Williamstown - US 25 North Waterline Replacement Project	0-2 Years	Partially Funded	$1,861,617	Grant		

Kenton County

- 2010 census population of 159,720 (68,975 households) with 98% serviceable.
- Projected 2020 population of 168,458 (change of 8,738).
- Kenton County has 788.80 miles of existing water lines.
- 64.00 miles of line extensions proposed in the next 10 years.
- 6.00 miles of line rehabilitation proposed in the next 10 years.
- 1.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $33,044,481.
- Estimated funding needs for projects from 6 to 10 years: $13,332,676.



Kenton County has a 2010 census population count of 159,720 (68,975 households) with a projected 2020 population count of 168,458 (68,111 households). Public water is currently available to approximately 98 percent of the county's households based on 2010 census counts. Over the next ten years approximately 656 serviceable households will be added through the construction of 64.00 miles of water line extensions and approximately 123,458 instances of improved service through the rehabilitation of 6.00 miles of existing water lines and other appurtenances. 1.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Bullock Pen Water District	1	$1,585,200	-	-	-	-	-
City of Florence	1	$600,000	-	31	-	-	-
Kenton County Fiscal Court	1	$3,399,336	135	-	7.00	-	-
Northern Kentucky Water District	10	$40,792,621	521	123,427	57.00	6.00	1.00
Totals:	**13**	**$46,377,157**	**656**	**123,458**	**64.00**	**6.00**	**1.00**

Community Drinking Water Systems in Kenton County

Note: Serviceability counts are for households within Kenton county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0590220	Northern Kentucky Water District	Kenton	154,873	66,947
KY0080034	Boone County Water District	Boone	178	69
KY0080135	Florence Water & Sewer Commission	Boone	783	320
KY0080442	Walton Waterworks Department	Boone	56	27
KY0410047	Bullock Pen Water District	Grant	1,098	425
		Totals:	156,988	67,788

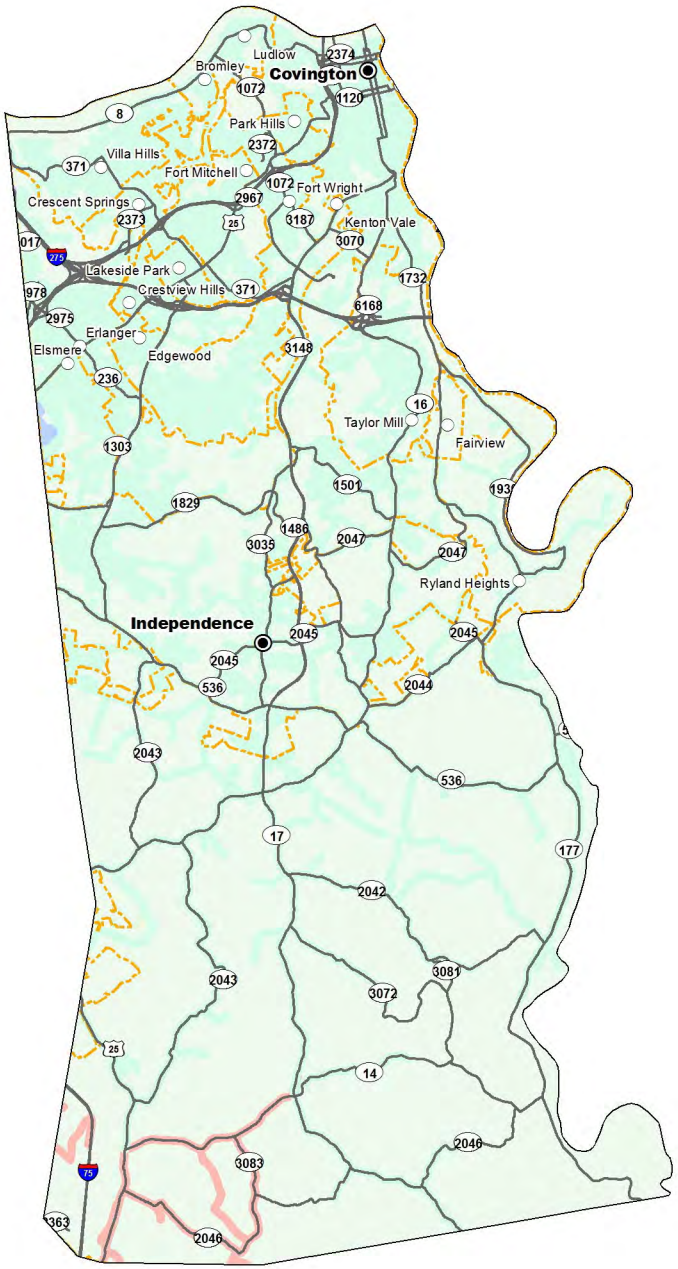
WATER SERVICE AREAS
KENTON COUNTY
Kentucky

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Kentucky Infrastructure Authority

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January, 2013

Water Resource Information System



WATER SERVICE BY OWNER

- BOONE COUNTY WATER & SEWER DISTRICT
- BULLOCK PEN WATER DISTRICT
- FLORENCE WATER & SEWER COMMISSION
- NORTHERN KENTUCKY WATER DISTRICT

System Summary for Northern Kentucky Water District

PWSID	KY0590220	Treats Water	Yes, 3 plants with total capacity of 64.500 MGD.
System Type	Community	Surface Source	Yes, 3 sources.
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	148	Wholesale Purchaser	No
Non-Municipal Cost	$21.50 per 4,000 gallons.	Wholesale Provider	Yes, to 4 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 20 tanks with total capacity of 23.000 MG.
Outside Mun. Cost	-	Total Connections	80,364
Residential Customers	73,942	Total Produced (MG)	9,998.000
Commercial Customers	4,165	Total Purchased (MG)	-
Institutional Customers	490	Total Inside Usage (MG)	8,189.918
Industrial Customers	109	Total Wholesale Sold (MG)	417.770
Wholesale Customers	4	Estimated Pct. Water Loss	14%
Total Distribution System Line Length = 1,288.83 miles (Distribution: 1,250.26 miles, Transmission: 38.57 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Northern Kentucky Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21037311	NKWD - Newport/Bellevue/Dayton Water Main Replacement Project	0-2 Years	Not Funded	$5,000,000	Campbell	4	1
WX21117303	NKWD - Kenton County Unserved Water Project 2013 (Subdistrict O)	0-2 Years	Not Funded	$3,965,808	Kenton	5	10
WX21037310	NKWD - Campbell County Unserved and Underserved Project 2012 - Subdistrict J	0-2 Years	Not Funded	$5,202,600	Campbell	7	2
WX21117002	Latonia Lakes Water Main Replacement Project	0-2 Years	Partially Funded	$1,834,917	Kenton	15	30
WX21037005	City of Mentor Water Main Replacement Project	0-2 Years	Not Funded	$661,926	Campbell	16	3
WX21117003	Campbell and Kenton County Water Main Replacement and SCADA Impr	0-2 Years	Not Funded	$5,425,000	Kenton	19	40
WX21117210	NKWD - Emergency Power Generation for Taylor Mill Water Treatment Plant and Licking River Pump Station	0-2 Years	Not Funded	$8,900,000	Kenton	20	50
WX21037004	Campbell County Water Main Rehabilitation and Treatment Plant Pr	0-2 Years	Partially Funded	$5,644,000	Campbell		
WX21117307	NKWD - Subdistrict V Waterline Extension	6-10 Years	Not Funded	$4,669,104	Kenton		
WX21037006	Campbell & Kenton County Water Main & Storage Tank Improvements	0-2 Years	Not Funded	$4,447,190	Campbell		
WX21117650	NKWD - Subdistrict T Waterline Extension	6-10 Years	Not Funded	$4,060,611	Kenton		
WX21037308	NKWD - Subdistrict U Waterline Extension	6-10 Years	Not Funded	$3,836,448	Campbell		
WX21037305	NKWD - Subdistrict P Waterline Extension	6-10 Years	Not Funded	$3,753,088	Campbell		
WX21037557	NKWD - Subdistrict W Waterline Extension	6-10 Years	Not Funded	$3,696,000	Campbell		
WX21037554	NKWD - Subdistrict S Waterline Extension	6-10 Years	Not Funded	$3,625,360	Campbell		
WX21037555	NKWD - Subdistrict X Waterline Extension	6-10 Years	Not Funded	$3,496,416	Campbell		
WX21117211	NKWD - Kenton County Unserved Water Project 2012 (Subdistrict M)	0-2 Years	Partially Funded	$3,399,336	Kenton		
WX21117301	NKWD - Subdistrict AA Waterline Extension	6-10 Years	Not Funded	$3,024,769	Kenton		

Owen County

- 2010 census population of 10,841 (5,634 households) with 86% serviceable.
- Projected 2020 population of 11,336 (change of 495).
- Owen County has 334.62 miles of existing water lines.
- 112.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $13,893,318.
- There are no projects planned from 6 to 10 years.



Owen County has a 2010 census population count of 10,841 (5,634 households) with a projected 2020 population count of 11,336 (4,713 households). Public water is currently available to approximately 86 percent of the county's households based on 2010 census counts. Over the next ten years approximately 694 serviceable households will be added through the construction of 112.00 miles of water line extensions.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Bullock Pen Water District	1	$477,700	20	-	1.00	-	-
City of Owenton	1	$827,724	55	-	10.00	-	-
Owen County Fiscal Court	3	$10,899,184	579	-	91.00	-	-
Peaks Mill Water District	1	$1,688,710	40	-	10.00	-	-
Totals:	**6**	**$13,893,318**	**694**	**-**	**112.00**	**-**	**-**

Community Drinking Water Systems in Owen County

Note: Serviceability counts are for households within Owen county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0210066	Carroll County Water District #1	Carroll	1,220	741
KY0340250	Kentucky-American Water Company	Fayette	8,129	4,034
KY0370346	Peaks Mill Water District	Franklin	123	67
		Totals:	9,472	4,842

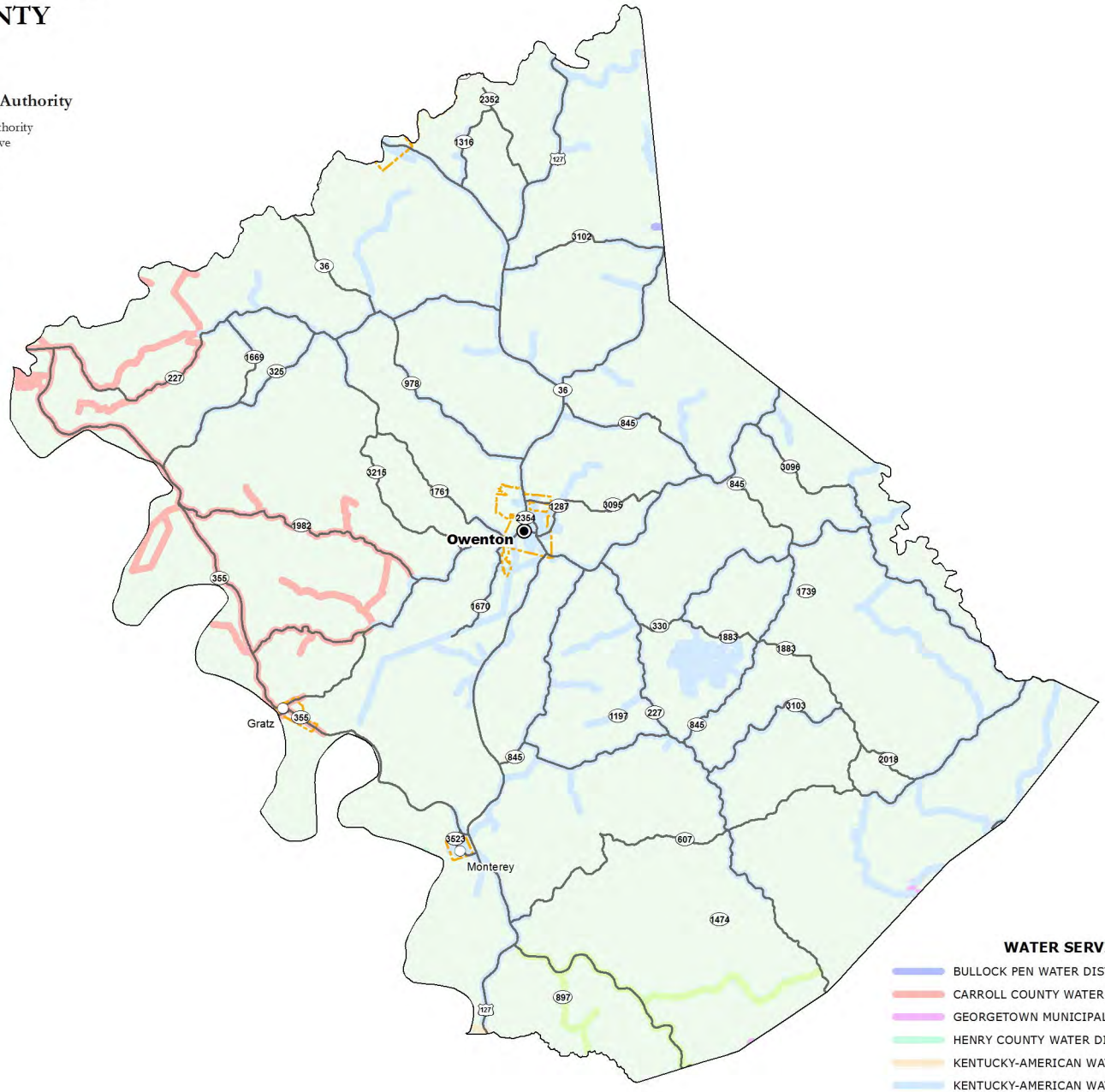
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January, 2013

Water Resource Information System



Pendleton County

- 2010 census population of 14,877 (6,339 households) with 92% serviceable.
- Projected 2020 population of 15,387 (change of 510).
- Pendleton County has 353.43 miles of existing water lines.
- 128.00 miles of line extensions proposed in the next 10 years.
- 1.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $15,588,709.
- Estimated funding needs for projects from 6 to 10 years: $5,218,604.



Pendleton County has a 2010 census population count of 14,877 (6,339 households) with a projected 2020 population count of 15,387 (5,987 households). Public water is currently available to approximately 92 percent of the county's households based on 2010 census counts. Over the next ten years approximately 297 serviceable households will be added through the construction of 128.00 miles of water line extensions and approximately 5,014 instances of improved service through the rehabilitation of 1.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Bracken County Water District	1	$549,500	-	14	-	1.00	-
City of Falmouth	1	$548,709	-	5,000	-	-	-
Northern Kentucky Water District	1	$4,669,104	-	-	-	-	-
Pendleton County Fiscal Court	1	$15,040,000	297	-	128.00	-	-
Totals:	**4**	**$20,807,313**	**297**	**5,014**	**128.00**	**1.00**	**-**

Community Drinking Water Systems in Pendleton County

Note: Serviceability counts are for households within Pendleton county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0960051	Butler Water Works	Pendleton	617	284
KY0960112	East Pendleton Water District	Pendleton	4,834	2,067
KY0960126	Falmouth Water Department	Pendleton	2,568	1,179
KY0960348	Pendleton County Water District #1 North	Pendleton	3,562	1,476
KY0960499	Pendleton County Water District #1 South	Pendleton	1,392	569
KY0120039	Bracken County Water District	Bracken	48	26
KY0410047	Bullock Pen Water District	Grant	475	161
KY0490179	Harrison County Water Association	Harrison	105	33
		Totals:	13,601	5,795

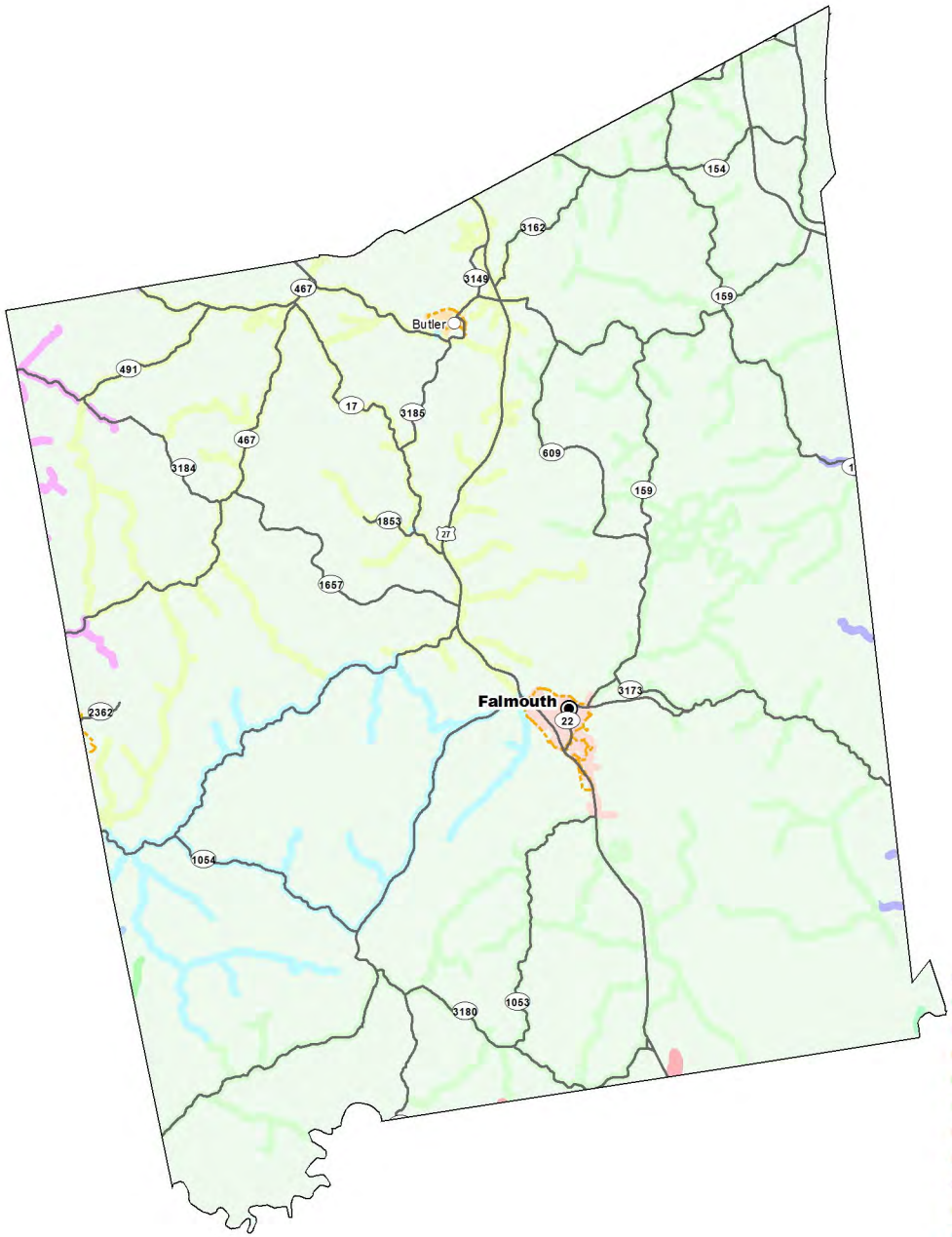
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January, 2013

Water Resource Information System



WATER SERVICE BY OWNER

- BRACKEN COUNTY WATER DISTRICT
- BUFFALO TRAIL WATER ASSOCIATION
- BULLOCK PEN WATER DISTRICT
- BUTLER WATER WORKS
- CORINTH WATER DISTRICT
- EAST PENDLETON WATER DISTRICT
- FALMOUTH WATER DEPARTMENT
- HARRISON COUNTY WATER ASSOCIATION
- NORTHERN KENTUCKY WATER DISTRICT
- PENDLETON COUNTY WATER DISTRICT #1 NORTH
- PENDLETON COUNTY WATER DISTRICT #1 SOUTH
- WILLIAMSTOWN MUNICIPAL WATER DEPARTMENT

System Summary for Butler Water Works

PWSID	KY0960051	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	1	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$20.66 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	332
Residential Customers	320	Total Produced (MG)	-
Commercial Customers	11	Total Purchased (MG)	24.580
Institutional Customers	-	Total Inside Usage (MG)	26.905
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	-9%
Total Distribution System Line Length = 3.81 miles (Distribution: 3.81 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Butler Water Works

System Summary for East Pendleton Water District

PWSID	KY0960112	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	6	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	$38.40 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 4 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	2,099
Residential Customers	2,075	Total Produced (MG)	-
Commercial Customers	11	Total Purchased (MG)	112.737
Institutional Customers	-	Total Inside Usage (MG)	93.059
Industrial Customers	1	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	17%
Total Distribution System Line Length = 171.15 miles (Distribution: 168.64 miles, Transmission: 2.52 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for East Pendleton Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21191507	Pendleton County - Fy 2008 Water Projects Phase I	0-2 Years	Partially Funded	$15,040,000	Pendleton		

System Summary for Falmouth Water Department

PWSID	KY0960126	Treats Water	Yes, 1 plant with total capacity of 2.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	4	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	$13.45 per 4,000 gallons.	Storage Capacity	Yes, 5 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	$13.45 per 4,000 gallons.	Total Connections	1,160
Residential Customers	1,110	Total Produced (MG)	300.000
Commercial Customers	47	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	86.550
Industrial Customers	3	Total Wholesale Sold (MG)	180.073
Wholesale Customers	2	Estimated Pct. Water Loss	11%
Total Distribution System Line Length = 20.82 miles (Distribution: 20.79 miles, Transmission: 0.03 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Falmouth Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21191003	Water Storage Reservoir Repair and Roof Replacement	0-2 Years	Not Funded	$548,709	Pendleton	9	2

System Summary for Pendleton County Water District #1 North

PWSID	KY0960348	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	7	Wholesale Purchaser	Yes, from 3 providers.
Non-Municipal Cost	$38.02 per 4,000 gallons.	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	2,255
Residential Customers	2,148	Total Produced (MG)	-
Commercial Customers	105	Total Purchased (MG)	170.710
Institutional Customers	-	Total Inside Usage (MG)	135.755
Industrial Customers	8	Total Wholesale Sold (MG)	24.580
Wholesale Customers	1	Estimated Pct. Water Loss	6%

Total Distribution System Line Length = 115.37 miles (Distribution: 115.37 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Pendleton County Water District #1 North

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21117003	Campbell and Kenton County Water Main Replacement and SCADA Impr	0-2 Years	Not Funded	$5,425,000	Kenton	19	40
WX21191507	Pendleton County - Fy 2008 Water Projects Phase I	0-2 Years	Partially Funded	$15,040,000	Pendleton		
WX21037004	Campbell County Water Main Rehabilitation and Treatment Plant Pr	0-2 Years	Partially Funded	$5,644,000	Campbell		
WX21037006	Campbell & Kenton County Water Main & Storage Tank Improvements	0-2 Years	Not Funded	$4,447,190	Campbell		

System Summary for Pendleton County Water District #1 South

PWSID	KY0960499	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	-	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	1,250
Residential Customers	-	Total Produced (MG)	-
Commercial Customers	-	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	-
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	

Total Distribution System Line Length = 49.10 miles (Distribution: 40.23 miles, Transmission: 8.87 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Pendleton County Water District #1 South

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21117003	Campbell and Kenton County Water Main Replacement and SCADA Impr	0-2 Years	Not Funded	$5,425,000	Kenton	19	40
WX21191507	Pendleton County - Fy 2008 Water Projects Phase I	0-2 Years	Partially Funded	$15,040,000	Pendleton		

Pennyrile Area Development District (PEADD)

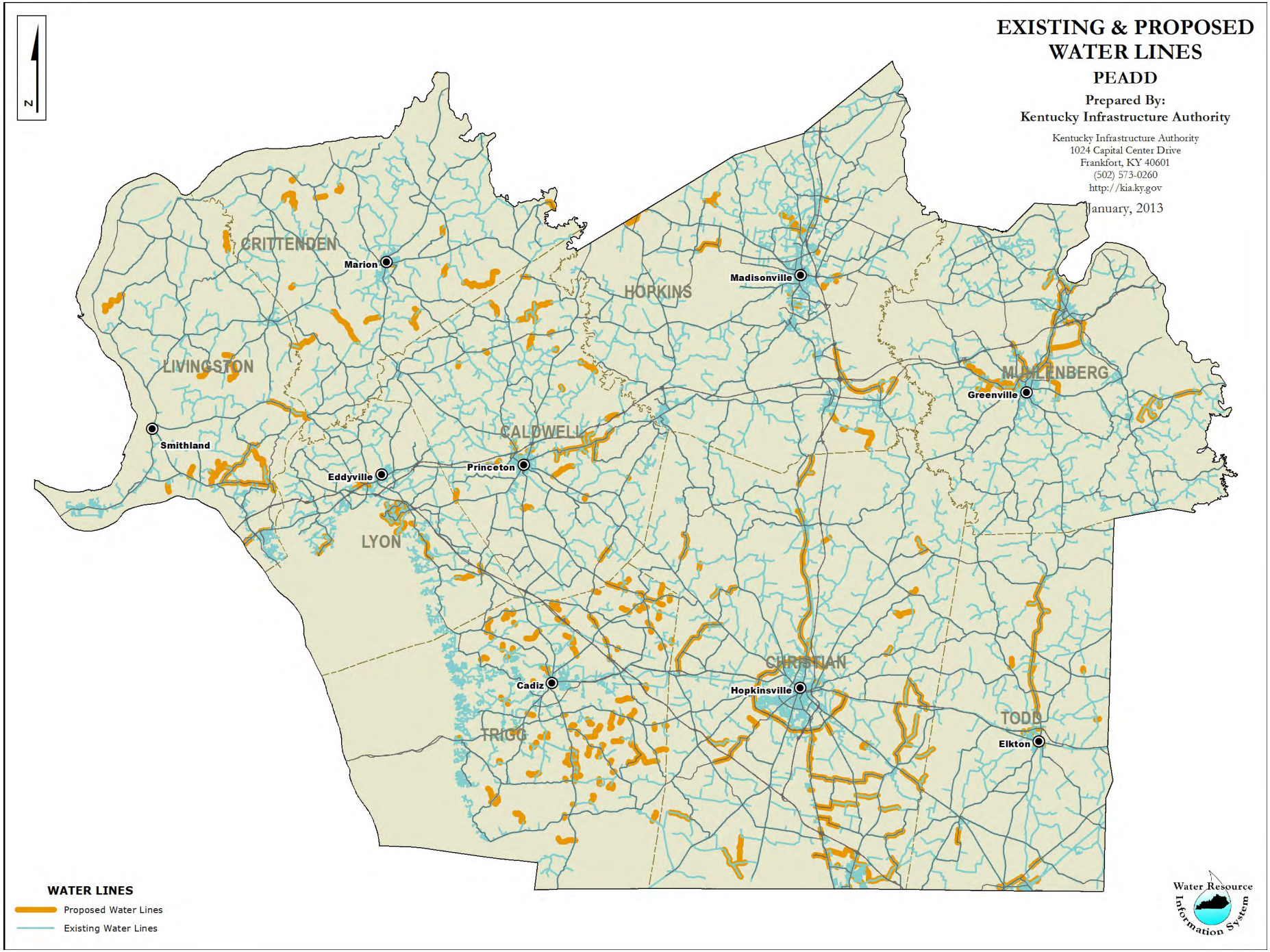


- 2010 census population of 219,305 (97,910 households) with 95% serviceable.
- Projected 2020 population of 226,580 (change of 7,275).
- 5,124.82 miles of existing water lines.
- 170.00 miles of line extensions proposed in the next 10 years.
- 91.00 miles of line rehabilitation proposed in the next 10 years.
- 11.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $206,656,134.
- Estimated funding needs for projects from 6 to 10 years: $18,427,372.
- Average age of structures: water treatment plants is 42 years; water tanks is 27 years.
- Total number of interconnected systems is 52.
- 845 miles of asbestos concrete pipe currently in use.
- 1,086 miles of water lines less than 15 years old.
- 287 miles of water lines between 15 and 30 years old.
- 2,600 miles of water lines between 31 and 50 years old.
- 691 miles of water lines between 51 and 70 years old.
- 527 miles of water lines greater than 70 years old.

Pennyrile Area Development District has a 2010 census population count of 219,305 (97,910 households) with a projected 2020 population count of 226,580 (89,133 households). Public water is currently available to approximately 95 percent of the district's households based on 2010 census counts. Over the next ten years approximately 1,006 serviceable households will be added through the construction of 170.00 miles of water line extensions and approximately 101,098 instances of improved service through the rehabilitation of 91.00 miles of existing water lines and other appurtenances. 11.00 miles of transmission lines are also proposed within this district.

County Summary for Pennyrile Area Development District

County Name	2010 Population	2010 Households	2020 Population	2020 Households	Serviceable Households	Percent Serviceable	Planned Cost 0 to 10 Years
Caldwell	12,984	6,292	12,948	5,518	6,219	99%	$ 10,431,433
Christian	73,955	29,459	77,840	28,340	26,582	90%	$ 56,757,081
Crittenden	9,315	4,569	9,156	3,775	4,332	95%	$ 4,049,500
Hopkins	46,920	21,180	48,007	19,684	20,577	97%	$ 13,990,459
Livingston	9,519	4,824	9,438	4,074	4,650	96%	$ 5,056,000
Lyon	8,314	4,791	8,523	3,430	4,671	98%	$ 2,878,000
Muhlenberg	31,499	13,699	31,466	12,337	13,254	97%	$ 15,362,632
Todd	12,460	5,286	12,958	4,989	5,051	96%	$ 108,045,500
Trigg	14,339	7,810	16,244	6,986	7,632	98%	$ 8,512,901
Totals	**219,305**	**97,910**	**226,580**	**89,133**	**92,968**	**95%**	**$ 225,083,506**


EXISTING & PROPOSED
WATER LINES
PEADD
Prepared By:
Kentucky Infrastructure Authority
Kentucky Infrastructure Authority
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N
CRITTENDEN
Marion
LIVINGSTON
Smithland
Eddyville
LYON
CALDWELL
Princeton
HOPKINS
Madisonville
MUHLENBERG
Greenville
CHRISTIAN
Hopkinsville
Cadiz
TRIGG
TODD
Elkton
WATER LINES
Proposed Water Lines
Existing Water Lines
Water Resource Information System

Community Water Systems in Pennyrile Area Development District County

Note: Serviceable counts include households outside the area development district.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0170528	Caldwell County Water District	Caldwell	5,105	2,449
KY0170146	Fredonia Water Department	Caldwell	721	327
KY0170360	Princeton Water & Wastewater Commission	Caldwell	7,008	3,442
KY0240521	Christian County Water District	Christian	15,643	6,593
KY0240201	Hopkinsville Water Environment Authority	Christian	36,228	16,441
KY0240329	Oak Grove Water Department	Christian	8,050	3,556
KY0280267	Marion Water Department	Crittenden	3,034	1,489
KY0540958	Dawson Springs Water & Sewer System	Hopkins	2,641	1,253
KY0540108	Earlington Water & Sewer Department	Hopkins	1,453	728
KY0540656	Hanson Water System	Hopkins	1,149	452
KY0540936	Madisonville Municipal Utilities	Hopkins	21,931	10,223
KY0540269	Mortons Gap Water Department	Hopkins	865	401
KY0540977	Nebo Water District	Hopkins	3,769	1,552
KY0540138	North Hopkins Water District	Hopkins	3,096	1,307
KY0540328	Nortonville Water Department	Hopkins	1,759	778
KY0540406	South Hopkins Water District	Hopkins	7,079	3,171
KY0540465	White Plains Water Department	Hopkins	1,552	667
KY0700532	Crittenden-Livingston County Water District	Livingston	9,037	4,511
KY0700162	Grand Rivers Water System	Livingston	1,999	1,153
KY0700243	Ledbetter Water District	Livingston	2,725	1,210
KY0700380	Salem Municipal Water System	Livingston	749	359
KY0700401	Smithland Water & Sewer System	Livingston	497	261
KY0720113	Eddyville Water Department	Lyon	2,893	1,121
KY0720227	Kuttawa Water Department	Lyon	764	407
KY0720933	Lyon County Water District	Lyon	4,031	2,917
KY0890071	Central City Municipal Water & Sewer System	Muhlenberg	4,791	2,219
KY0890106	Drakesboro Water & Sewer	Muhlenberg	663	308
KY0890170	Greenville Utilities Commission	Muhlenberg	4,728	2,131
KY0890302	Muhlenberg County Water District #1	Muhlenberg	14,015	6,160
KY0890304	Muhlenberg County Water District #3	Muhlenberg	4,965	2,225
KY1100121	Elkton Utilities	Todd	2,167	957
KY1100171	Guthrie Water Works	Todd	1,399	639
KY1100944	Todd County Water District	Todd	8,425	3,744
KY1100428	Trenton Water Works	Todd	584	269
KY1110019	Barkley Lake Water District	Trigg	10,250	5,933
KY1110054	Cadiz Water & Sewer Commission	Trigg	3,940	1,818
		Totals:	199,705	93,171

Pennyrile Area Development District
Regional Water Needs Assessment

Primary Need: **Repair and Replace Existing Infrastructure**
Secondary Need: **Increase Storage Capacity**

Discussion of Area Development District Needs:

The Pennyrile Area has a lot of varied projects but at this time the majority of our needs fall under the heading of replacing aging infrastructure. This category ranges from replacing aging lines and pumps to replacing tanks and plants. At this time, a large majority of the lines and infrastructure in the Pennyrile region is approaching its designed lifespan. Each system is unique and has different needs but the overall trend is to replace aging cast iron pipe, aging AC (asbestos concrete) lines, and aging pvc lines with newer pvc and ductile iron. One of the problems that we are running into is the shear scope of the replacement projects. In many situations we find that a system needs to replace large sections of their lines or infrastructure. The reason for these large scale replacement projects is that whole sections of the systems were installed during one large project. In the cases of some small municipalities these older projects can cover most of the city. Why do these projects need to addressed? It is because an aging system costs money. These aging systems are inefficient and expensive to maintain. As an area ages it takes more time and resources to address the problems that arise. When a problem area is fixed it frees up manpower and resources which can be used for system maintenance, expansion, and rate stabilization.

The secondary need in the Pennyrile region is an off shoot of the primary need. In many cases the systems do not need to just replace an aging tank but increase the amount of available storage and lines feeding the new structure. Tanks in general are a long term investment for a system. These structures provide the backbone of the system providing pressure and short term storage to the customers. As water systems grow and expand an undersized tank can become a large problem. These undersized tanks can create low pressure zones, bottle necks in the system, and increased pumping and production times at the water treatment plants.

Description and Determination of Planning Units:

The planning units in the Pennyrile region are based on the existing county boundaries. By keeping the planning units based on the county boundaries the systems are familiar with the political structure and the current relationship between them and their neighbors. Currently the Pennyrile region has nine planning units (Caldwell County, Christian County, Crittenden County, Hopkins County, Livingston County, Lyon County, Muhlenberg County, Todd County, and Trigg County). These planning units vary in number of systems from as little as two to as many as ten. In each of these instances the county based planning units seem to work well for the Pennyrile region. Many of the counties systems have grown interconnected and interdependent over the last several years. These relationships help foster cooperation and county/regional planning.

Pennyrile Area Development District
Project Ranking Methodology

Each year, the Water Management Council of the Pennyrile Area Development District (PADD) completes a ranking process of water and wastewater projects in the region. This is a "grassroots" process as it begins at the local (system) level and ends with all projects being ranked on a regional basis.

We begin the process with county-wide ranking meetings during which all water/wastewater systems meet with the PADD Water Management Coordinator and their respective County Judge Executive. We discuss the individual projects from each system and rank them according to the priorities within the county. These rankings are then used in the overall regional ranking process.

The PADD Water Management Council has elected to use a point system to determine the overall regional ranking of each project. Projects are ranked based on five categories; Project Type (Unserved Customers, Underserved Customers, and Aging Infrastructure), Regionalization, Level of Engineering/Project Status, Funding Status, and Local Importance. Projects may receive up 20 points in each category except for regionalization. The Water Management Council recognizes the increasing importance of regionalization and has weighted this category heavier. Overall, a project can achieve 110 points. In the instances where two project score the same numerical value the Water Council has elected to use a simple cost analysis to break the tie. The system that is serving the most people with the least amount of money receives the higher ranking (cost of the project/number of customers served).

Project Rankings For Pennyrile Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21033009	Caldwell County Water District Waterline Extension	3-5 Years	Partially Funded	$2,092,010	Caldwell	1	1
WX21047013	HWEA - US 41A Water Main Improvement, 2 MG Southpark Tank, and Interconnect Project	0-2 Years	Partially Funded	$7,006,000	Christian	2	1
WX21139026	Crittenden-Livingston Water District - Distribution Upgrade	3-5 Years	Not Funded	$1,160,000	Livingston	3	1
WX21219035	Logan Todd RWC – Springfield, Tennessee Supply Project	0-2 Years	Not Funded	$26,500,000	Todd	4	1
WX21055009	Crittenden-Livingston WD - Moore Hill Tank (Crittenden Co.)	3-5 Years	Not Funded	$1,039,500	Crittenden	5	1
WX21107034	South Hopkins Water District - Waterline Extension & Tank	3-5 Years	Not Funded	$1,224,004	Hopkins	6	1
WX21177018	Muhlenberg County Water District Nebo Pump Station, Watermain & Tank	3-5 Years	Not Funded	$1,175,985	Muhlenberg	7	1
WX21177027	Greenville - Tanks and Chemical Storage Building Upgrade	0-2 Years	Over Funded	$290,000	Muhlenberg	8	2
WX21033006	Princeton - Water Distribution Improvements	3-5 Years	Partially Funded	$500,000	Caldwell	9	2
WX21143006	City of Kuttawa - Water Quality Project	3-5 Years	Partially Funded	$200,000	Lyon	10	7
WX21177036	Central City - Tank Rehabilitation	0-2 Years	Not Funded	$500,000	Muhlenberg	11	3
WX21047014	Christian County Water District: System Extension Project	0-2 Years	Partially Funded	$800,000	Christian	12	4
WX21219032	Logan/Todd - 12" Waterline Upgrade (Elkton to Allender's Hill)	3-5 Years	Unknown	$0	Todd	13	3
WX21219018	Todd County Water District - KY Hwy 181 Upgrade	3-5 Years	Not Funded	$4,200,000	Todd	14	2
WX21221009	Cadiz - IGA Water Tank Replacement	3-5 Years	Not Funded	$957,000	Trigg	15	1
WX21143011	City of Kuttawa - I-24 Water Storage Tank	3-5 Years	Not Funded	$700,000	Lyon	16	1
WX21047035	Christian County Water District - Waterline Replacement & Extension	3-5 Years	Not Funded	$3,818,000	Christian	17	5
WX21107041	Nebo - Water System Improvements	3-5 Years	Partially Funded	$106,282	Hopkins	18	5
WX21047038	Christian Count Water District - Phase VIII Upgrade Project	3-5 Years	Not Funded	$2,500,000	Christian	19	3
WX21055013	Marion - Sludge Basin Rehabilitation	3-5 Years	Not Funded	$375,000	Crittenden	20	2
WX21139012	Salem - Water Distribution Upgrades	3-5 Years	Partially Funded	$100,000	Livingston	21	4
WX21047019	Oak Grove - Hugh Hunter Road Waterline Replacement	0-2 Years	Not Funded	$865,000	Christian	22	2
WX21143008	LCWD - System Rehabilitation and Improvements	3-5 Years	Not Funded	$1,038,000	Lyon	23	2
WX21107038	Madisonville North Pressure Zone Improvements	3-5 Years	Not Funded	$2,299,227	Hopkins	24	2
WX21177025	Muhlenberg County Water District #1 - Tank Rehabiliation Project	3-5 Years	Partially Funded	$922,885	Muhlenberg	25	5
WX21221008	Barkley Lake Water District - Water Line Extension	3-5 Years	Not Funded	$3,850,000	Trigg	26	2
WX21107022	White Plains - Hwy 813 - South Hopkins Water District Interconnect	6-10 Years	Not Funded	$965,000	Hopkins	27	14
WX21055011	CLWD - Line Extensions (Crittenden)	3-5 Years	Not Funded	$975,000	Crittenden	28	3
WX21033015	Princeton - System Upgrade	3-5 Years	Not Funded	$1,445,000	Caldwell	29	3
WX21107040	Mortons Gap Water System Rehab	3-5 Years	Not Funded	$835,000	Hopkins	30	3
WX21221013	Cadiz - Line Rehabilitation - Will Jackson Road Hwy 778	3-5 Years	Not Funded	$962,500	Trigg	31	3
WX21047036	Christian County Water District Princeton Road Tank & System Upgrade	3-5 Years	Not Funded	$1,750,000	Christian	32	6

Project Rankings For Pennyrile Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21107008	Madisonville Noel Av Line Replacement	3-5 Years	Not Funded	$587,600	Hopkins	33	4
WX21047027	HWEA - Crofton Water Line Replacement	3-5 Years	Not Funded	$4,060,995	Christian	34	7
WX21219033	Elkton - Water System Rehabilitation and Upgrade project	3-5 Years	Unknown	$0	Todd	35	4
WX21047004	HWEA - Crofton Water Main Extension Project	3-5 Years	Not Funded	$4,746,749	Christian	36	8
WX21047002	HWEA - Crofton 750K Tank & Water Main Replacement	0-2 Years	Not Funded	$2,545,000	Christian	37	13
WX21219023	Logan-Todd Rwc/Guthrie - Clarksville, Tn Interconnection	6-10 Years	Not Funded	$13,000,000	Todd	38	8
WX21221014	Barkley Lake Water District - Sludge Storage Lagoon Improvements	3-5 Years	Not Funded	$349,901	Trigg	39	4
WX21107044	White Plains - Red Hill Road Ph. III Christian County Interconne	3-5 Years	Not Funded	$155,000	Hopkins	40	9
WX21219014	Trenton - Water System Improvements	3-5 Years	Not Funded	$400,000	Todd	41	5
WX21139022	Ledbetter - Holland Road Main Extension	3-5 Years	Not Funded	$300,000	Livingston	42	5
WX21033016	Caldwell County WD - Water Tank Replacement and Upgrades	6-10 Years	Not Funded	$2,252,372	Caldwell	43	5
WX21219008	Guthrie Water System Rehabilitation Project	0-2 Years	Not Funded	$1,300,000	Todd	44	6
WX21177037	MCWD #1 - Cornett Road Replacement	3-5 Years	Not Funded	$100,000	Muhlenberg	45	4
WX21177023	Muhlenberg County Water District #1 - System Rehabilitation	3-5 Years	Not Funded	$584,397	Muhlenberg	46	7
WX21107025	White Plains - Phase 2 Red Hill Tank, Pump Station and Waterline Extension	3-5 Years	Not Funded	$670,000	Hopkins	47	7
WX21219024	Elkton - Water Storage Tank Improvements	3-5 Years	Not Funded	$200,000	Todd	48	7
WX21107029	White Plains - Concord Tank & Pump Station	3-5 Years	Not Funded	$770,000	Hopkins	49	8
WX21139023	Ledbetter - Paris Rd Main Extension	3-5 Years	Not Funded	$150,000	Livingston	50	8
WX21139018	Grand Rivers - Newbern Road Water Line Extension	3-5 Years	Not Funded	$175,000	Livingston	51	9
WX21047003	HWEA Hopkinsville Water Main Extension Project	3-5 Years	Not Funded	$8,163,337	Christian	52	9
WX21139013	Grand Rivers - Waterline Replacement Project	3-5 Years	Not Funded	$850,000	Livingston	53	6
WX21047031	Christian County Water District - Waterline Extensions (10)	3-5 Years	Not Funded	$1,800,000	Christian	54	10
WX21107009	Madisonville Dozier Heights Waterline Replacement	3-5 Years	Not Funded	$354,413	Hopkins	55	6
WX21033019	Caldwell County Water District - U.S. Hwy 62 Area Water System Improvements	3-5 Years	Not Funded	$1,456,561	Caldwell	56	7
WX21139025	CLWD - Line Extensions (Livingston)	3-5 Years	Not Funded	$565,000	Livingston	57	7
WX21107021	White Plains - US 62/Concord Ch. Rd. - MG Int. (P2)	6-10 Years	Not Funded	$210,000	Hopkins	58	13
WX21177033	MCWD #3 - Pump Station Efficiency Upgrade	0-2 Years	Not Funded	$47,250	Muhlenberg	59	9
WX21047029	HWEA - Hopkinsville Industrial Foundation Commerce Park West Loop	3-5 Years	Not Funded	$210,000	Christian	60	11
WX21033018	Princeton - Tank Rehabilitation	3-5 Years	Not Funded	$300,000	Caldwell	61	6
WX21047010	HWEA - Westside 2 MG Tank & Water Main Extension	0-2 Years	Partially Funded	$6,000,000	Christian	62	14
			Total Cost:	**$123,454,968**			

Caldwell County

- 2010 census population of 12,984 (6,292 households) with 99% serviceable.
- Projected 2020 population of 12,948 (change of -36).
- Caldwell County has 512.91 miles of existing water lines.
- 2.00 miles of line extensions proposed in the next 10 years.
- 13.00 miles of line rehabilitation proposed in the next 10 years.
- 2.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $8,179,061.
- Estimated funding needs for projects from 6 to 10 years: $2,252,372.



Caldwell County has a 2010 census population count of 12,984 (6,292 households) with a projected 2020 population count of 12,948 (5,518 households). Public water is currently available to approximately 99 percent of the county's households based on 2010 census counts. Over the next ten years approximately 1 serviceable households will be added through the construction of 2.00 miles of water line extensions and approximately 14,590 instances of improved service through the rehabilitation of 13.00 miles of existing water lines and other appurtenances. 2.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Caldwell County Water District	5	$5,033,933	-	6,250	-	11.00	-
City of Fredonia	1	$150,000	-	340	-	-	-
Princeton Water & Wastewater Commission	3	$5,247,500	1	8,000	2.00	2.00	2.00
Totals:	**9**	**$10,431,433**	**1**	**14,590**	**2.00**	**13.00**	**2.00**

Community Drinking Water Systems in Caldwell County

Note: Serviceability counts are for households within Caldwell county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0170528	Caldwell County Water District	Caldwell	5,098	2,446
KY0170146	Fredonia Water Department	Caldwell	576	284
KY0170360	Princeton Water & Wastewater Commission	Caldwell	6,867	3,347
KY0540406	South Hopkins Water District	Hopkins	205	94
KY0720933	Lyon County Water District	Lyon	20	13
KY1110019	Barkley Lake Water District	Trigg	64	28
		Totals:	12,830	6,212

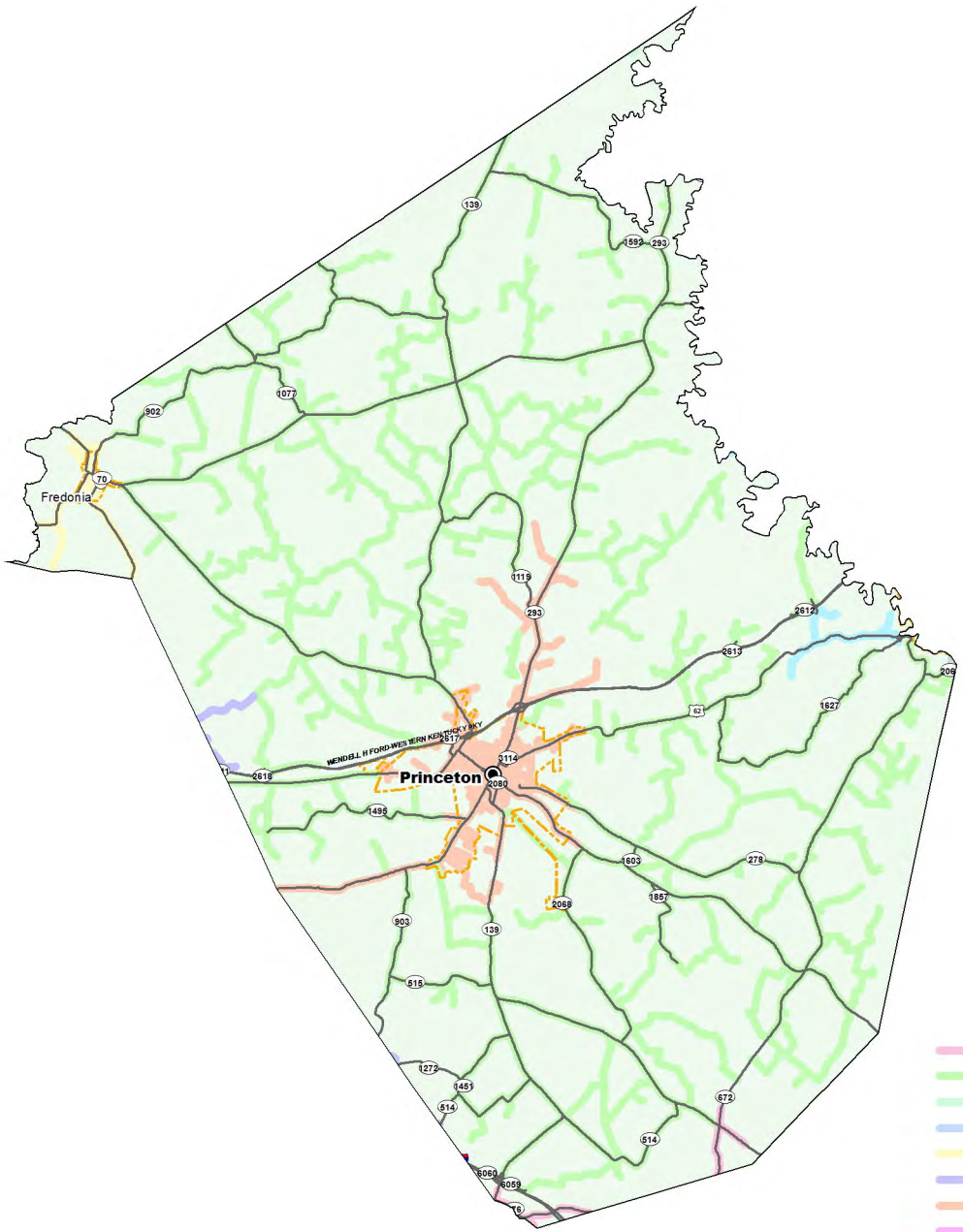
WATER SERVICE AREAS
CALDWELL COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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Frankfort, KY 40601
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January, 2013

Water Resource Information System



System Summary for Caldwell County Water District

PWSID	KY0170528	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	5	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	$53.81 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	2,015
Residential Customers	2,004	Total Produced (MG)	-
Commercial Customers	11	Total Purchased (MG)	99.454
Institutional Customers	-	Total Inside Usage (MG)	84.710
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	15%

Total Distribution System Line Length = 398.97 miles (Distribution: 398.92 miles, Transmission: 0.05 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Caldwell County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21033016	Caldwell County WD - Water Tank Replacement and Upgrades	6-10 Years	Not Funded	$2,252,372	Caldwell	43	5
WX21033019	Caldwell County Water District - U.S. Hwy 62 Area Water System Improvements	3-5 Years	Not Funded	$1,456,561	Caldwell	56	7
WX21033011	Caldwell County Water District - Radio Read Meters	3-5 Years	Not Funded	$725,000	Caldwell		8
WX21033013	Caldwell County Water District - Emergency Standby Generators	3-5 Years	Not Funded	$100,000	Caldwell		9
WX21033012	Caldwell County Water District - Rd Debt Reduction	3-5 Years	Not Funded	$500,000	Caldwell		10

System Summary for Fredonia Water Department

PWSID	KY0170146	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	2	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$32.44 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	$41.52 per 4,000 gallons.	Total Connections	340
Residential Customers	321	Total Produced (MG)	-
Commercial Customers	18	Total Purchased (MG)	27.261
Institutional Customers	-	Total Inside Usage (MG)	19.686
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	1	Estimated Pct. Water Loss	28%

Total Distribution System Line Length = 19.48 miles (Distribution: 19.48 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Fredonia Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21033017	Fredonia - Tank Rehabilation	3-5 Years	Not Funded	$150,000	Caldwell		4

System Summary for Princeton Water & Wastewater Commission

PWSID	KY0170360	Treats Water	Yes, 1 plant with total capacity of 3.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Municipal Utility Board or Commission	Groundwater Source	No
Employees	17	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 3 purchasers.
Inside Mun. Cost	$18.83 per 4,000 gallons.	Storage Capacity	Yes, 3 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	$26.36 per 4,000 gallons.	Total Connections	3,483
Residential Customers	2,993	Total Produced (MG)	586.244
Commercial Customers	285	Total Purchased (MG)	-
Institutional Customers	149	Total Inside Usage (MG)	270.607
Industrial Customers	14	Total Wholesale Sold (MG)	158.228
Wholesale Customers	3	Estimated Pct. Water Loss	27%
Total Distribution System Line Length = 91.61 miles (Distribution: 91.49 miles, Transmission: 0.12 miles).			

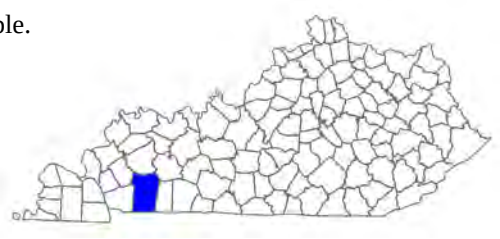
MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Princeton Water & Wastewater Commission

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21033015	Princeton - System Upgrade	3-5 Years	Not Funded	$1,445,000	Caldwell	29	3
WX21033018	Princeton - Tank Rehabilitation	3-5 Years	Not Funded	$300,000	Caldwell	61	6
WX21033020	Princeton - 2013 Water System Improvements	0-2 Years	Not Funded	$3,502,500	Caldwell		

Christian County

- 2010 census population of 73,955 (29,459 households) with 90% serviceable.
- Projected 2020 population of 77,840 (change of 3,885).
- Christian County has 1,041.32 miles of existing water lines.
- 51.00 miles of line extensions proposed in the next 10 years.
- 26.00 miles of line rehabilitation proposed in the next 10 years.
- 8.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $56,757,081.
- There are no projects planned from 6 to 10 years.



Christian County has a 2010 census population count of 73,955 (29,459 households) with a projected 2020 population count of 77,840 (28,340 households). Public water is currently available to approximately 90 percent of the county's households based on 2010 census counts. Over the next ten years approximately 354 serviceable households will be added through the construction of 51.00 miles of water line extensions and approximately 37,384 instances of improved service through the rehabilitation of 26.00 miles of existing water lines and other appurtenances. 8.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Christian County Water District	5	$10,060,000	58	14,547	15.00	24.00	-
City of Oak Grove	2	$1,465,000	-	6,340	-	1.00	-
Hopkinsville Water Environment Authority	8	$38,732,081	296	16,497	36.00	1.00	-
Logan-Todd Regional Water Commission	1	$6,500,000	-	-	-	-	8.00
Totals:	**16**	**$56,757,081**	**354**	**37,384**	**51.00**	**26.00**	**8.00**

Community Drinking Water Systems in Christian County

Note: Serviceability counts are for households within Christian county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0240521	Christian County Water District	Christian	15,571	6,558
KY0240201	Hopkinsville Water Environment Authority	Christian	36,228	16,441
KY0240329	Oak Grove Water Department	Christian	8,050	3,556
KY1110019	Barkley Lake Water District	Trigg	46	18
		Totals:	59,895	26,573

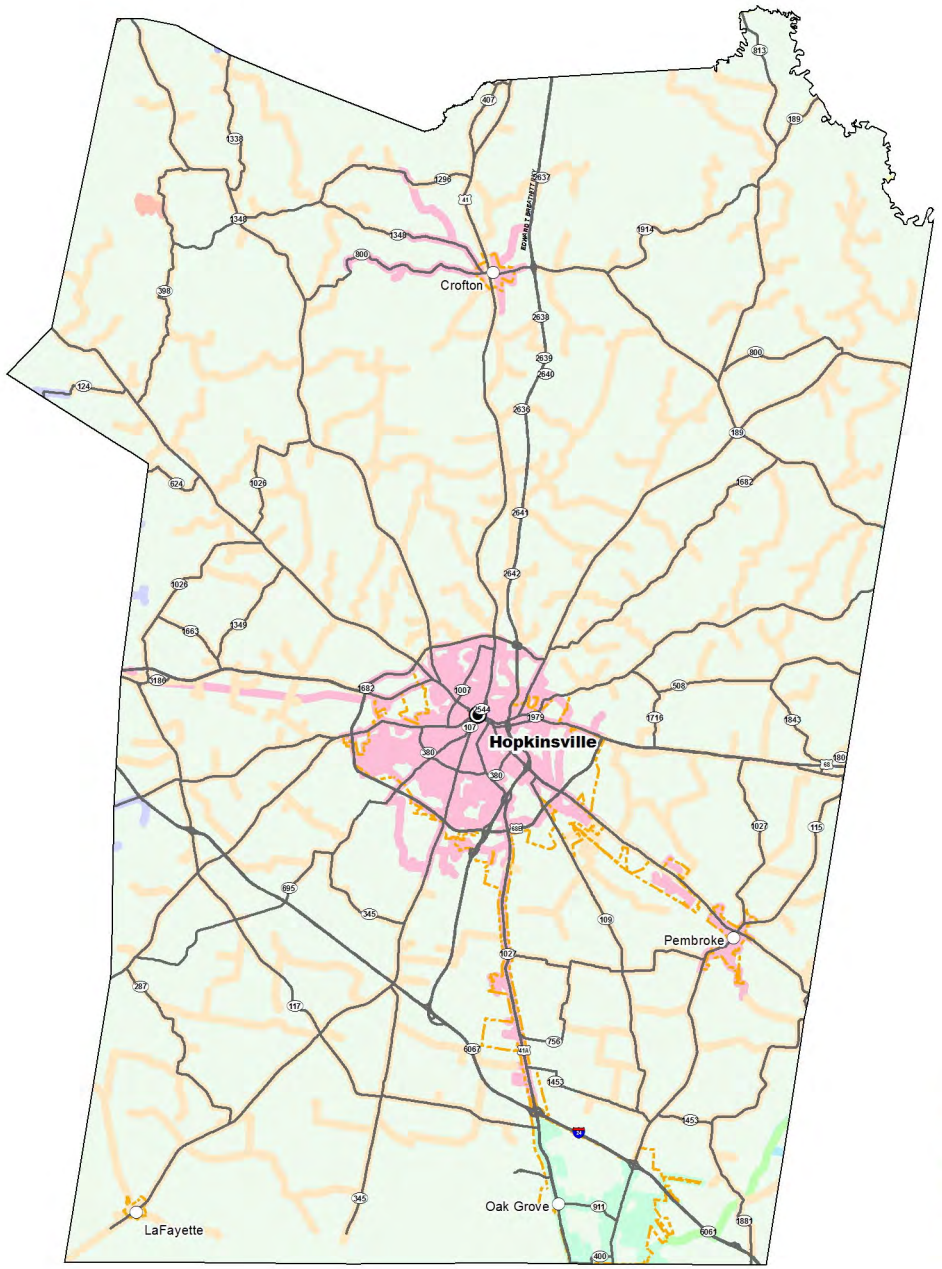
WATER SERVICE AREAS
CHRISTIAN COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

Kentucky Infrastructure Authority
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http://kia.ky.gov

January, 2013

Water Resource Information System



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WATER SERVICE BY OWNER

- BARKLEY LAKE WATER DISTRICT
- CHRISTIAN COUNTY WATER DISTRICT
- HOPKINSVILLE WATER ENVIRONMENT AUTHORITY
- LOGAN/TODD REGIONAL WATER COMMISSION
- MUHLENBERG COUNTY WATER DISTRICT #1
- OAK GROVE WATER DEPARTMENT
- PENNYRILE FOREST STATE RESORT PARK
- SOUTH HOPKINS WATER DISTRICT
- TODD COUNTY WATER DISTRICT

System Summary for Christian County Water District

PWSID	KY0240521	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	15	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	$43.22 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 12 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	5,773
Residential Customers	5,591	Total Produced (MG)	-
Commercial Customers	77	Total Purchased (MG)	420.019
Institutional Customers	-	Total Inside Usage (MG)	368.809
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	12%

Total Distribution System Line Length = 669.94 miles (Distribution: 669.94 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Christian County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21047035	Christian County Water District - Waterline Replacement & Extension	3-5 Years	Not Funded	$3,818,000	Christian	17	5
WX21047038	Christian Count Water District - Phase VIII Upgrade Project	3-5 Years	Not Funded	$2,500,000	Christian	19	3
WX21047036	Christian County Water District Princeton Road Tank & System Upgrade	3-5 Years	Not Funded	$1,750,000	Christian	32	6
WX21047031	Christian County Water District - Waterline Extensions (10)	3-5 Years	Not Funded	$1,800,000	Christian	54	10
WX21047033	Christian County Water District - Emergency Standby Generators	3-5 Years	Not Funded	$192,000	Christian		

System Summary for Hopkinsville Water Environment Authority

PWSID	KY0240201	Treats Water	Yes, 1 plant with total capacity of 13.500 MGD.
System Type	Community	Surface Source	Yes, 3 sources.
Owner Type	Municipal Utility Board or Commission	Groundwater Source	No
Employees	65	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$15.76 per 4,000 gallons.	Storage Capacity	Yes, 6 tanks with total capacity of 6.000 MG.
Outside Mun. Cost	$15.76 per 4,000 gallons.	Total Connections	14,481
Residential Customers	12,100	Total Produced (MG)	2,122.110
Commercial Customers	1,897	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	1,500.558
Industrial Customers	82	Total Wholesale Sold (MG)	351.197
Wholesale Customers	1	Estimated Pct. Water Loss	13%
Total Distribution System Line Length = 308.20 miles (Distribution: 281.54 miles, Transmission: 26.66 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Hopkinsville Water Environment Authority

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21047013	HWEA - US 41A Water Main Improvement, 2 MG Southpark Tank, and Interconnect Project	0-2 Years	Partially Funded	$7,006,000	Christian	2	1
WX21047027	HWEA - Crofton Water Line Replacement	3-5 Years	Not Funded	$4,060,995	Christian	34	7
WX21047004	HWEA - Crofton Water Main Extension Project	3-5 Years	Not Funded	$4,746,749	Christian	36	8
WX21047002	HWEA - Crofton 750K Tank & Water Main Replacement	0-2 Years	Not Funded	$2,545,000	Christian	37	13
WX21047003	HWEA Hopkinsville Water Main Extension Project	3-5 Years	Not Funded	$8,163,337	Christian	52	9
WX21047029	HWEA - Hopkinsville Industrial Foundation Commerce Park West Loop	3-5 Years	Not Funded	$210,000	Christian	60	11
WX21047010	HWEA - Westside 2 MG Tank & Water Main Extension	0-2 Years	Partially Funded	$6,000,000	Christian	62	14
WX21047032	HWEA Water Meter Replacement and AMR	3-5 Years	Not Funded	$6,000,000	Christian		12

System Summary for Oak Grove Water Department

PWSID	KY0240329	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	11	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$32.52 per 4,000 gallons.	Storage Capacity	Yes, 3 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	$39.76 per 4,000 gallons.	Total Connections	3,213
Residential Customers	3,041	Total Produced (MG)	-
Commercial Customers	150	Total Purchased (MG)	200.659
Institutional Customers	12	Total Inside Usage (MG)	154.050
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	23%

Total Distribution System Line Length = 67.26 miles (Distribution: 67.26 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Oak Grove Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21047019	Oak Grove - Hugh Hunter Road Waterline Replacement	0-2 Years	Not Funded	$865,000	Christian	22	2
WX21219031	LTRWC - Ft. Campbell Supplemental Water Supply Project	3-5 Years	Not Funded	$6,500,000	Todd		
WX21047023	Oak Grove - Water Meter Replacement Project	3-5 Years	Not Funded	$600,000	Christian		

Crittenden County

- 2010 census population of 9,315 (4,569 households) with 95% serviceable.
- Projected 2020 population of 9,156 (change of -159).
- Crittenden County has 400.86 miles of existing water lines.
- 18.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $4,049,500.
- There are no projects planned from 6 to 10 years.



Crittenden County has a 2010 census population count of 9,315 (4,569 households) with a projected 2020 population count of 9,156 (3,775 households). Public water is currently available to approximately 95 percent of the county's households based on 2010 census counts. Over the next ten years approximately 61 serviceable households will be added through the construction of 18.00 miles of water line extensions and approximately 5,600 instances of improved service through system wide upgrades.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Marion	2	$875,000	-	3,100	-	-	-
Crittenden-Livingston County Water District	3	$3,174,500	61	2,500	18.00	-	-
Totals:	**5**	**$4,049,500**	**61**	**5,600**	**18.00**	**-**	**-**

Community Drinking Water Systems in Crittenden County

Note: Serviceability counts are for households within Crittenden county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0280267	Marion Water Department	Crittenden	3,034	1,489
KY0700532	Crittenden-Livingston County Water District	Livingston	5,822	2,841
		Totals:	8,856	4,330

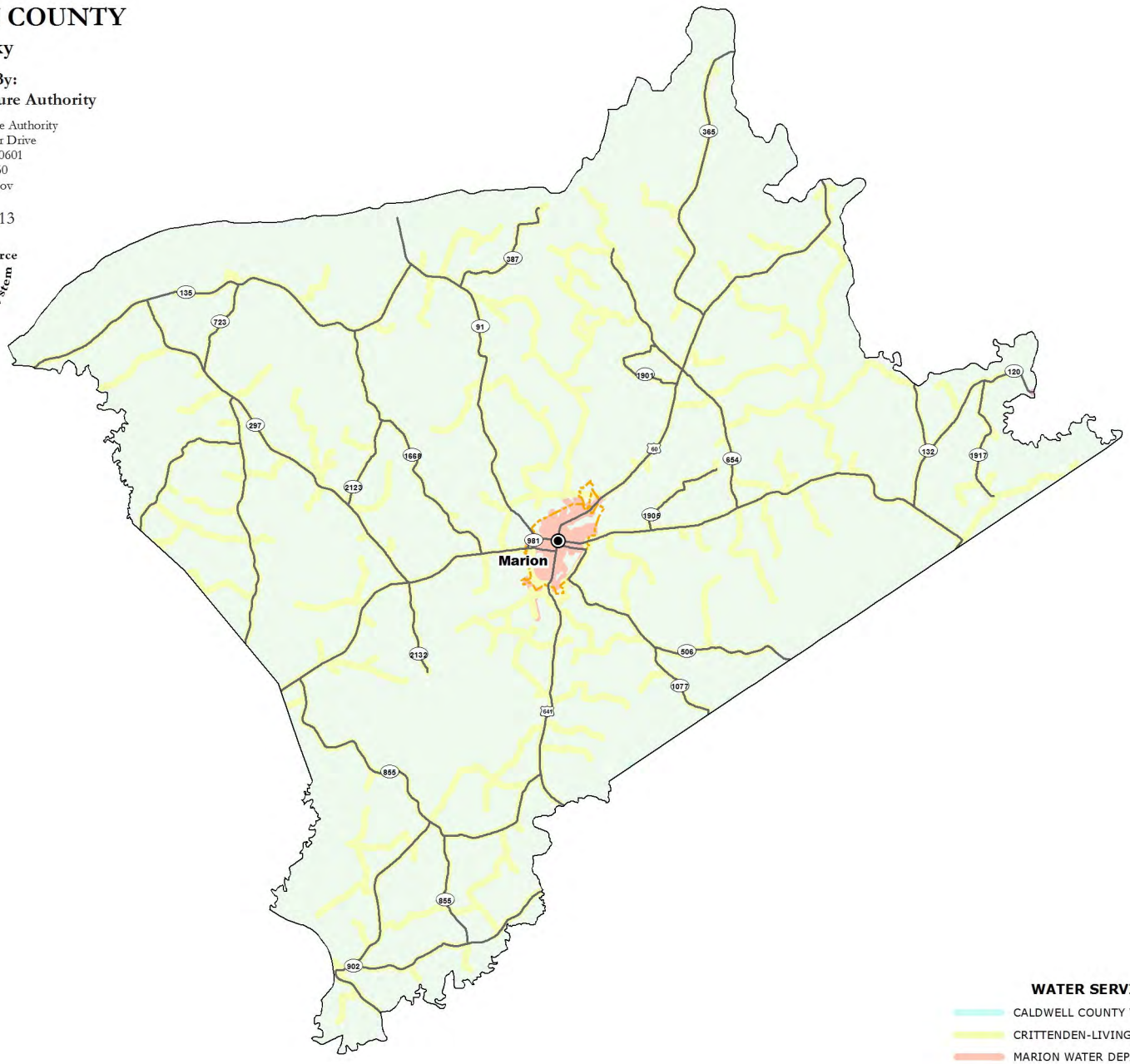
WATER SERVICE AREAS
CRITTENDEN COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

Kentucky Infrastructure Authority
1024 Capital Center Drive
Frankfort, KY 40601
(502) 573-0260
http://kia.ky.gov

January, 2013

Water Resource Information System



WATER SERVICE BY OWNER

- CALDWELL COUNTY WATER DISTRICT
- CRITTENDEN-LIVINGSTON COUNTY WATER DISTRICT
- MARION WATER DEPARTMENT
- WEBSTER COUNTY WATER DISTRICT

System Summary for Marion Water Department

PWSID	KY0280267	Treats Water	Yes, 1 plant with total capacity of 1.000 MGD.
System Type	Community	Surface Source	Yes, 2 sources.
Owner Type	Incorporated City	Groundwater Source	No
Employees	7	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$34.97 per 4,000 gallons.	Storage Capacity	Yes, 2 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	$34.97 per 4,000 gallons.	Total Connections	1,527
Residential Customers	1,327	Total Produced (MG)	160.425
Commercial Customers	195	Total Purchased (MG)	1.528
Institutional Customers	-	Total Inside Usage (MG)	85.412
Industrial Customers	5	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	47%
Total Distribution System Line Length = 38.93 miles (Distribution: 38.09 miles, Transmission: 0.83 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Marion Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21139026	Crittenden-Livingston Water District - Distribution Upgrade	3-5 Years	Not Funded	$1,160,000	Livingston	3	1
WX21055009	Crittenden-Livingston WD - Moore Hill Tank (Crittenden Co.)	3-5 Years	Not Funded	$1,039,500	Crittenden	5	1
WX21055013	Marion - Sludge Basin Rehabilitation	3-5 Years	Not Funded	$375,000	Crittenden	20	2
WX21055010	Marion - Emergency Standby Generators	3-5 Years	Not Funded	$500,000	Crittenden		4

Hopkins County

- 2010 census population of 46,920 (21,180 households) with 97% serviceable.
- Projected 2020 population of 48,007 (change of 1,087).
- Hopkins County has 803.08 miles of existing water lines.
- 11.00 miles of line extensions proposed in the next 10 years.
- 12.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $10,815,459.
- Estimated funding needs for projects from 6 to 10 years: $3,175,000.



Hopkins County has a 2010 census population count of 46,920 (21,180 households) with a projected 2020 population count of 48,007 (19,684 households). Public water is currently available to approximately 97 percent of the county's households based on 2010 census counts. Over the next ten years approximately 461 serviceable households will be added through the construction of 11.00 miles of water line extensions and approximately 12,133 instances of improved service through the rehabilitation of 12.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Dawson Springs	2	$573,099	-	665	-	-	-
City of Earlington	1	$30,000	-	570	-	-	-
City of Hanson	1	$271,883	1	-	-	-	-
City of Madisonville	4	$3,578,202	430	2,079	4.00	3.00	-
City of Mortons Gap	2	$870,000	-	302	-	-	-
City of Nortonville	1	$2,000,000	-	860	-	-	-
City of Providence	1	$2,000,000	-	5	-	1.00	-
City of White Plains	5	$2,770,000	21	3,852	4.00	8.00	-
Nebo Water District	1	$106,282	9	-	3.00	-	-
South Hopkins Water District	2	$1,790,993	-	3,800	-	-	-
Totals:	**20**	**$13,990,459**	**461**	**12,133**	**11.00**	**12.00**	**-**

Community Drinking Water Systems in Hopkins County

Note: Serviceability counts are for households within Hopkins county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0540958	Dawson Springs Water & Sewer System	Hopkins	2,631	1,248
KY0540108	Earlington Water & Sewer Department	Hopkins	1,453	728
KY0540656	Hanson Water System	Hopkins	1,149	452
KY0540936	Madisonville Municipal Utilities	Hopkins	21,931	10,223
KY0540269	Mortons Gap Water Department	Hopkins	865	401
KY0540977	Nebo Water District	Hopkins	3,766	1,552
KY0540138	North Hopkins Water District	Hopkins	3,096	1,307
KY0540328	Nortonville Water Department	Hopkins	1,759	778
KY0540406	South Hopkins Water District	Hopkins	6,867	3,074
KY0540465	White Plains Water Department	Hopkins	1,552	667
KY0240521	Christian County Water District	Christian	23	14
KY1170361	Providence Water Works	Webster	30	14
KY1170400	Slaughters Water Works	Webster	289	115
		Totals:	45,411	20,573

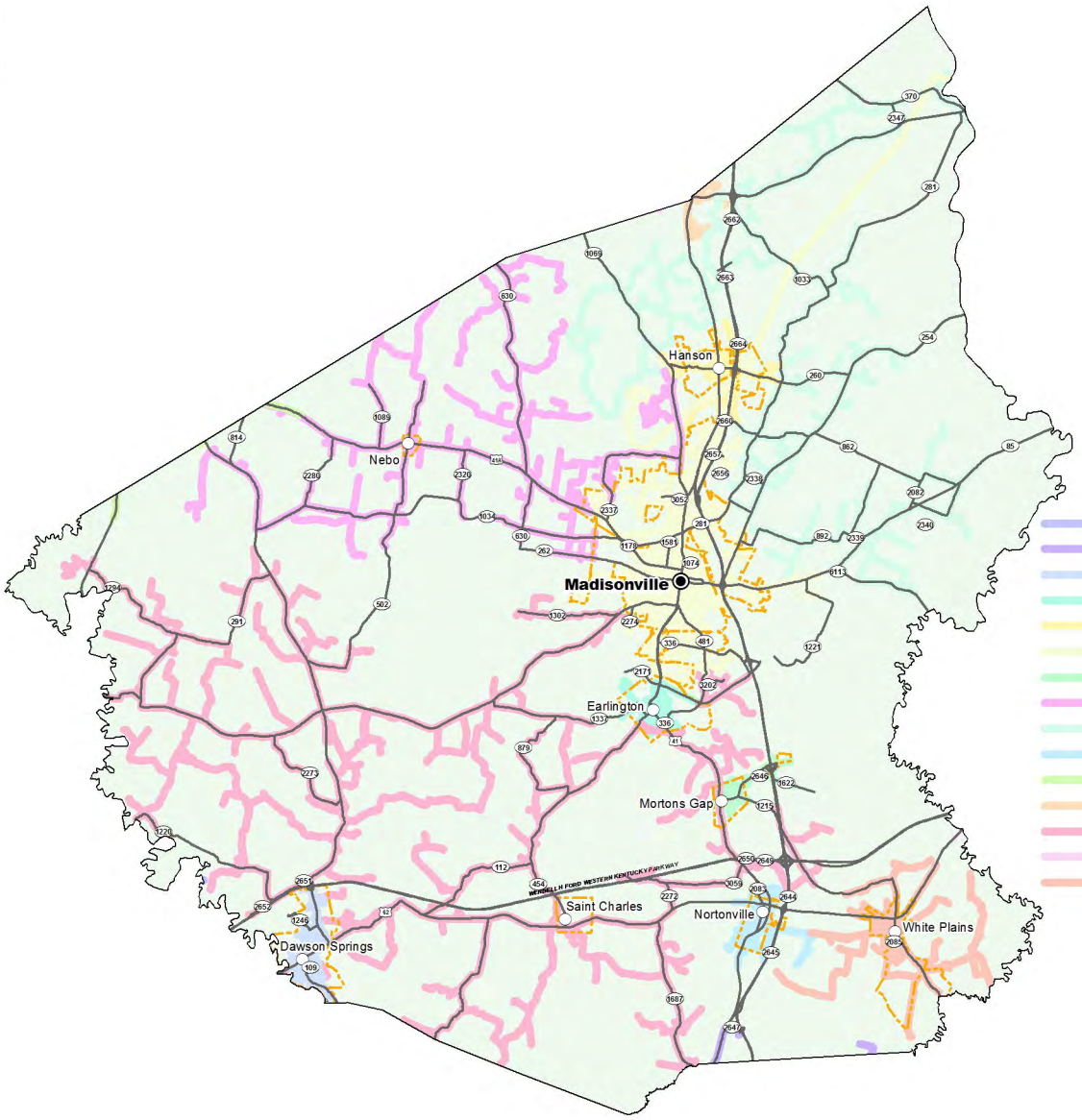
WATER SERVICE AREAS
HOPKINS COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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January, 2013

Water Resource Information System



System Summary for Dawson Springs Water & Sewer System

PWSID	KY0540958	Treats Water	Yes, 1 plant with total capacity of 2.880 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Municipal Utility Board or Commission	Groundwater Source	No
Employees	9	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$23.96 per 4,000 gallons.	Storage Capacity	Yes, 5 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	$23.96 per 4,000 gallons.	Total Connections	1,113
Residential Customers	865	Total Produced (MG)	480.017
Commercial Customers	147	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	96.172
Industrial Customers	-	Total Wholesale Sold (MG)	312.310
Wholesale Customers	1	Estimated Pct. Water Loss	15%

Total Distribution System Line Length = 29.09 miles (Distribution: 28.29 miles, Transmission: 0.81 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Dawson Springs Water & Sewer System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21107042	Dawson Springs - AMR Project	3-5 Years	Not Funded	$135,000	Hopkins		11
WX21107031	Dawson Springs - Emergency Standby Generators	3-5 Years	Not Funded	$438,099	Hopkins		12

System Summary for Earlington Water & Sewer Department

PWSID	KY0540108	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	2	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$33.40 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	$49.40 per 4,000 gallons.	Total Connections	566
Residential Customers	493	Total Produced (MG)	-
Commercial Customers	35	Total Purchased (MG)	44.462
Institutional Customers	-	Total Inside Usage (MG)	24.815
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	44%
Total Distribution System Line Length = 17.67 miles (Distribution: 17.63 miles, Transmission: 0.03 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Earlington Water & Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21107028	Earlington - Water System Improvements	0-2 Years	Not Funded	$30,000	Hopkins		

System Summary for Hanson Water System

PWSID	KY0540656	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	5	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$31.00 per 4,000 gallons.	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$56.52 per 4,000 gallons.	Total Connections	473
Residential Customers	465	Total Produced (MG)	-
Commercial Customers	7	Total Purchased (MG)	40.737
Institutional Customers	-	Total Inside Usage (MG)	28.140
Industrial Customers	1	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	31%
Total Distribution System Line Length = 21.76 miles (Distribution: 21.76 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Hanson Water System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21107019	Hanson - Hopkins County Industrial Park Water Main	3-5 Years	Not Funded	$271,883	Hopkins		

System Summary for Madisonville Municipal Utilities

PWSID	KY0540936	Treats Water	Yes, 1 plant with total capacity of 8.000 MGD.
System Type	Community	Surface Source	Yes, 2 sources.
Owner Type	Incorporated City	Groundwater Source	No
Employees	31	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 4 purchasers.
Inside Mun. Cost	$22.61 per 4,000 gallons.	Storage Capacity	Yes, 4 tanks with total capacity of 6.000 MG.
Outside Mun. Cost	$33.93 per 4,000 gallons.	Total Connections	10,008
Residential Customers	8,562	Total Produced (MG)	1,332.578
Commercial Customers	1,412	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	865.045
Industrial Customers	30	Total Wholesale Sold (MG)	292.393
Wholesale Customers	4	Estimated Pct. Water Loss	13%
Total Distribution System Line Length = 174.48 miles (Distribution: 158.84 miles, Transmission: 15.65 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Madisonville Municipal Utilities

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21107038	Madisonville North Pressure Zone Improvements	3-5 Years	Not Funded	$2,299,227	Hopkins	24	2
WX21107008	Madisonville Noel Av Line Replacement	3-5 Years	Not Funded	$587,600	Hopkins	33	4
WX21107009	Madisonville Dozier Heights Waterline Replacement	3-5 Years	Not Funded	$354,413	Hopkins	55	6
WX21107006	Madisonville Water Line Extension	3-5 Years	Not Funded	$336,962	Hopkins		

System Summary for Mortons Gap Water Department

PWSID	KY0540269	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	2	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$30.85 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	$40.85 per 4,000 gallons.	Total Connections	458
Residential Customers	440	Total Produced (MG)	-
Commercial Customers	18	Total Purchased (MG)	42.152
Institutional Customers	-	Total Inside Usage (MG)	29.159
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	31%

Total Distribution System Line Length = 12.54 miles (Distribution: 12.54 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Mortons Gap Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21107022	White Plains - Hwy 813 - South Hopkins Water District Interconnect	6-10 Years	Not Funded	$965,000	Hopkins	27	14
WX21107040	Mortons Gap Water System Rehab	3-5 Years	Not Funded	$835,000	Hopkins	30	3
WX21107047	Mortons Gap - System Improvements Project	0-2 Years	Not Funded	$35,000	Hopkins		

System Summary for Nebo Water District

PWSID	KY0540977	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	7	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$33.99 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	1,577
Residential Customers	1,531	Total Produced (MG)	-
Commercial Customers	20	Total Purchased (MG)	165.250
Institutional Customers	18	Total Inside Usage (MG)	145.912
Industrial Customers	8	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	12%

Total Distribution System Line Length = 101.13 miles (Distribution: 101.13 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Nebo Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21107041	Nebo - Water System Improvements	3-5 Years	Partially Funded	$106,282	Hopkins	18	5

System Summary for North Hopkins Water District

PWSID	KY0540138	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	3	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$46.20 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 4 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	1,262
Residential Customers	1,256	Total Produced (MG)	-
Commercial Customers	12	Total Purchased (MG)	80.793
Institutional Customers	-	Total Inside Usage (MG)	66.856
Industrial Customers	7	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	17%
Total Distribution System Line Length = 120.85 miles (Distribution: 120.85 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for North Hopkins Water District

System Summary for Nortonville Water Department

PWSID	KY0540328	Treats Water	Yes, 1 plant with total capacity of 0.432 MGD.
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	Yes, 3 sources.
Employees	5	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$18.12 per 4,000 gallons.	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$24.37 per 4,000 gallons.	Total Connections	866
Residential Customers	822	Total Produced (MG)	70.551
Commercial Customers	31	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	40.917
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	42%
Total Distribution System Line Length = 25.48 miles (Distribution: 25.07 miles, Transmission: 0.41 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Nortonville Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21107001	Nortonville - Water Treatment Plant and Well Upgrade.	0-2 Years	Not Funded	$2,000,000	Hopkins		

System Summary for South Hopkins Water District

PWSID	KY0540406	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	7	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	$24.23 per 4,000 gallons.	Wholesale Provider	Yes, to 3 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 5 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	2,987
Residential Customers	2,850	Total Produced (MG)	-
Commercial Customers	115	Total Purchased (MG)	317.923
Institutional Customers	19	Total Inside Usage (MG)	191.216
Industrial Customers	3	Total Wholesale Sold (MG)	87.344
Wholesale Customers	3	Estimated Pct. Water Loss	12%

Total Distribution System Line Length = 251.60 miles (Distribution: 251.60 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for South Hopkins Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21107034	South Hopkins Water District - Waterline Extension & Tank	3-5 Years	Not Funded	$1,224,004	Hopkins	6	1
WX21107022	White Plains - Hwy 813 - South Hopkins Water District Interconnect	6-10 Years	Not Funded	$965,000	Hopkins	27	14
WX21107033	South Hopkins Water District - Emercency Standby Generators	3-5 Years	Not Funded	$566,989	Hopkins		10

System Summary for White Plains Water Department

PWSID	KY0540465	Treats Water	Yes, 1 plant with total capacity of 0.170 MGD.
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	Yes, 2 sources.
Employees	2	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$29.90 per 4,000 gallons.	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$35.15 per 4,000 gallons.	Total Connections	636
Residential Customers	626	Total Produced (MG)	42.346
Commercial Customers	8	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	40.690
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	1	Estimated Pct. Water Loss	4%

Total Distribution System Line Length = 44.18 miles (Distribution: 43.88 miles, Transmission: 0.31 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for White Plains Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21107022	White Plains - Hwy 813 - South Hopkins Water District Interconnect	6-10 Years	Not Funded	$965,000	Hopkins	27	14
WX21107044	White Plains - Red Hill Road Ph. III Christian County Interconne	3-5 Years	Not Funded	$155,000	Hopkins	40	9
WX21107025	White Plains - Phase 2 Red Hill Tank, Pump Station and Waterline Extension	3-5 Years	Not Funded	$670,000	Hopkins	47	7
WX21107029	White Plains - Concord Tank & Pump Station	3-5 Years	Not Funded	$770,000	Hopkins	49	8
WX21107021	White Plains - US 62/Concord Ch. Rd. - MG Int. (P2)	6-10 Years	Not Funded	$210,000	Hopkins	58	13

Livingston County

- 2010 census population of 9,519 (4,824 households) with 96% serviceable.
- Projected 2020 population of 9,438 (change of -81).
- Livingston County has 385.00 miles of existing water lines.
- 11.00 miles of line extensions proposed in the next 10 years.
- 20.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $5,056,000.
- There are no projects planned from 6 to 10 years.



Livingston County has a 2010 census population count of 9,519 (4,824 households) with a projected 2020 population count of 9,438 (4,074 households). Public water is currently available to approximately 96 percent of the county's households based on 2010 census counts. Over the next ten years approximately 39 serviceable households will be added through the construction of 11.00 miles of water line extensions and approximately 6,945 instances of improved service through the rehabilitation of 20.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Grand Rivers	4	$1,169,000	-	2,665	-	17.00	-
City of Smithland	1	$60,000	-	180	-	-	-
Crittenden-Livingston County Water District	3	$2,700,000	26	3,000	9.00	3.00	-
Ledbetter Water District	3	$1,127,000	13	1,100	2.00	-	-
Totals:	**11**	**$5,056,000**	**39**	**6,945**	**11.00**	**20.00**	**-**

Community Drinking Water Systems in Livingston County

Note: Serviceability counts are for households within Livingston county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0700532	Crittenden-Livingston County Water District	Livingston	3,213	1,668
KY0700162	Grand Rivers Water System	Livingston	1,998	1,152
KY0700243	Ledbetter Water District	Livingston	2,725	1,210
KY0700380	Salem Municipal Water System	Livingston	749	359
KY0700401	Smithland Water & Sewer System	Livingston	497	261
		Totals:	9,182	4,650

WATER SERVICE AREAS
LIVINGSTON COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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January, 2013

Water Resource Information System



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WATER SERVICE BY OWNER

- CRITTENDEN-LIVINGSTON COUNTY WATER DISTRICT
- GRAND RIVERS WATER SYSTEM
- LEDBETTER WATER DISTRICT
- NORTH MARSHALL WATER DISTRICT
- SALEM MUNICIPAL WATER SYSTEM
- SMITHLAND WATER & SEWER SYSTEM

System Summary for Crittenden-Livingston County Water District

PWSID	KY0700532	Treats Water	Yes, 1 plant with total capacity of 2.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	13	Wholesale Purchaser	No
Non-Municipal Cost	$48.26 per 4,000 gallons.	Wholesale Provider	Yes, to 6 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 5 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	3,465
Residential Customers	3,447	Total Produced (MG)	500.545
Commercial Customers	12	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	250.032
Industrial Customers	-	Total Wholesale Sold (MG)	189.242
Wholesale Customers	6	Estimated Pct. Water Loss	12%
Total Distribution System Line Length = 592.86 miles (Distribution: 592.64 miles, Transmission: 0.21 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Crittenden-Livingston County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21139026	Crittenden-Livingston Water District - Distribution Upgrade	3-5 Years	Not Funded	$1,160,000	Livingston	3	1
WX21055009	Crittenden-Livingston WD - Moore Hill Tank (Crittenden Co.)	3-5 Years	Not Funded	$1,039,500	Crittenden	5	1
WX21055011	CLWD - Line Extensions (Crittenden)	3-5 Years	Not Funded	$975,000	Crittenden	28	3
WX21139025	CLWD - Line Extensions (Livingston)	3-5 Years	Not Funded	$565,000	Livingston	57	7

System Summary for Grand Rivers Water System

PWSID	KY0700162	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	6	Wholesale Purchaser	Yes, from 3 providers.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$30.60 per 4,000 gallons.	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$30.60 per 4,000 gallons.	Total Connections	1,333
Residential Customers	1,206	Total Produced (MG)	-
Commercial Customers	127	Total Purchased (MG)	101.181
Institutional Customers	-	Total Inside Usage (MG)	87.539
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	13%
Total Distribution System Line Length = 77.91 miles (Distribution: 77.91 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Grand Rivers Water System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21139018	Grand Rivers - Newbern Road Water Line Extension	3-5 Years	Not Funded	$175,000	Livingston	51	9
WX21139013	Grand Rivers - Waterline Replacement Project	3-5 Years	Not Funded	$850,000	Livingston	53	6
WX21139014	Grand Rivers - Water Valve Project	3-5 Years	Not Funded	$54,000	Livingston		10
WX21139015	Grand Rivers - Master Meter Project	3-5 Years	Not Funded	$90,000	Livingston		11

System Summary for Ledbetter Water District

PWSID	KY0700243	Treats Water	Yes, 1 plant with total capacity of 0.311 MGD.
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	Yes, 1 source.
Employees	6	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$28.63 per 4,000 gallons.	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	1,256
Residential Customers	1,213	Total Produced (MG)	43.056
Commercial Customers	42	Total Purchased (MG)	35.896
Institutional Customers	-	Total Inside Usage (MG)	72.549
Industrial Customers	1	Total Wholesale Sold (MG)	-
Wholesale Customers	2	Estimated Pct. Water Loss	8%
Total Distribution System Line Length = 48.40 miles (Distribution: 48.33 miles, Transmission: 0.08 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Ledbetter Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21139022	Ledbetter - Holland Road Main Extension	3-5 Years	Not Funded	$300,000	Livingston	42	5
WX21139023	Ledbetter - Paris Rd Main Extension	3-5 Years	Not Funded	$150,000	Livingston	50	8
WX21139021	Ledbetter Water District - Emergency Standby Generators	3-5 Years	Not Funded	$677,000	Livingston		12

System Summary for Salem Municipal Water System

PWSID	KY0700380	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	2	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$23.12 per 4,000 gallons.	Storage Capacity	No
Outside Mun. Cost	$23.12 per 4,000 gallons.	Total Connections	431
Residential Customers	367	Total Produced (MG)	-
Commercial Customers	42	Total Purchased (MG)	23.838
Institutional Customers	-	Total Inside Usage (MG)	21.871
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	8%
Total Distribution System Line Length = 12.58 miles (Distribution: 12.58 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Salem Municipal Water System

System Summary for Smithland Water & Sewer System

PWSID	KY0700401	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	4	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$37.57 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	$37.57 per 4,000 gallons.	Total Connections	262
Residential Customers	213	Total Produced (MG)	-
Commercial Customers	49	Total Purchased (MG)	15.279
Institutional Customers	-	Total Inside Usage (MG)	7.833
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	49%
Total Distribution System Line Length = 14.34 miles (Distribution: 14.34 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Smithland Water & Sewer System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21139016	Smithland - Water Valve Replacement (Nsp)	3-5 Years	Not Funded	$60,000	Livingston		3

Lyon County

- 2010 census population of 8,314 (4,791 households) with 98% serviceable.
- Projected 2020 population of 8,523 (change of 209).
- Lyon County has 306.84 miles of existing water lines.
- 4.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $2,878,000.
- There are no projects planned from 6 to 10 years.



Lyon County has a 2010 census population count of 8,314 (4,791 households) with a projected 2020 population count of 8,523 (3,430 households). Public water is currently available to approximately 98 percent of the county's households based on 2010 census counts. Over the next ten years approximately 2 serviceable households will be added through the construction of 4.00 miles of water line extensions and approximately 7,837 instances of improved service through system wide upgrades.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Eddyville	1	$260,000	-	1,395	-	-	-
City of Kuttawa	3	$950,000	-	1,075	-	-	-
Lyon County Water District	3	$1,668,000	2	5,367	4.00	-	-
Totals:	**7**	**$2,878,000**	**2**	**7,837**	**4.00**	**-**	**-**

Community Drinking Water Systems in Lyon County

Note: Serviceability counts are for households within Lyon county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0720113	Eddyville Water Department	Lyon	2,893	1,121
KY0720227	Kuttawa Water Department	Lyon	764	407
KY0720933	Lyon County Water District	Lyon	4,008	2,904
KY0170146	Fredonia Water Department	Caldwell	145	43
KY0170360	Princeton Water & Wastewater Commission	Caldwell	141	95
KY1110019	Barkley Lake Water District	Trigg	132	95
		Totals:	8,083	4,665

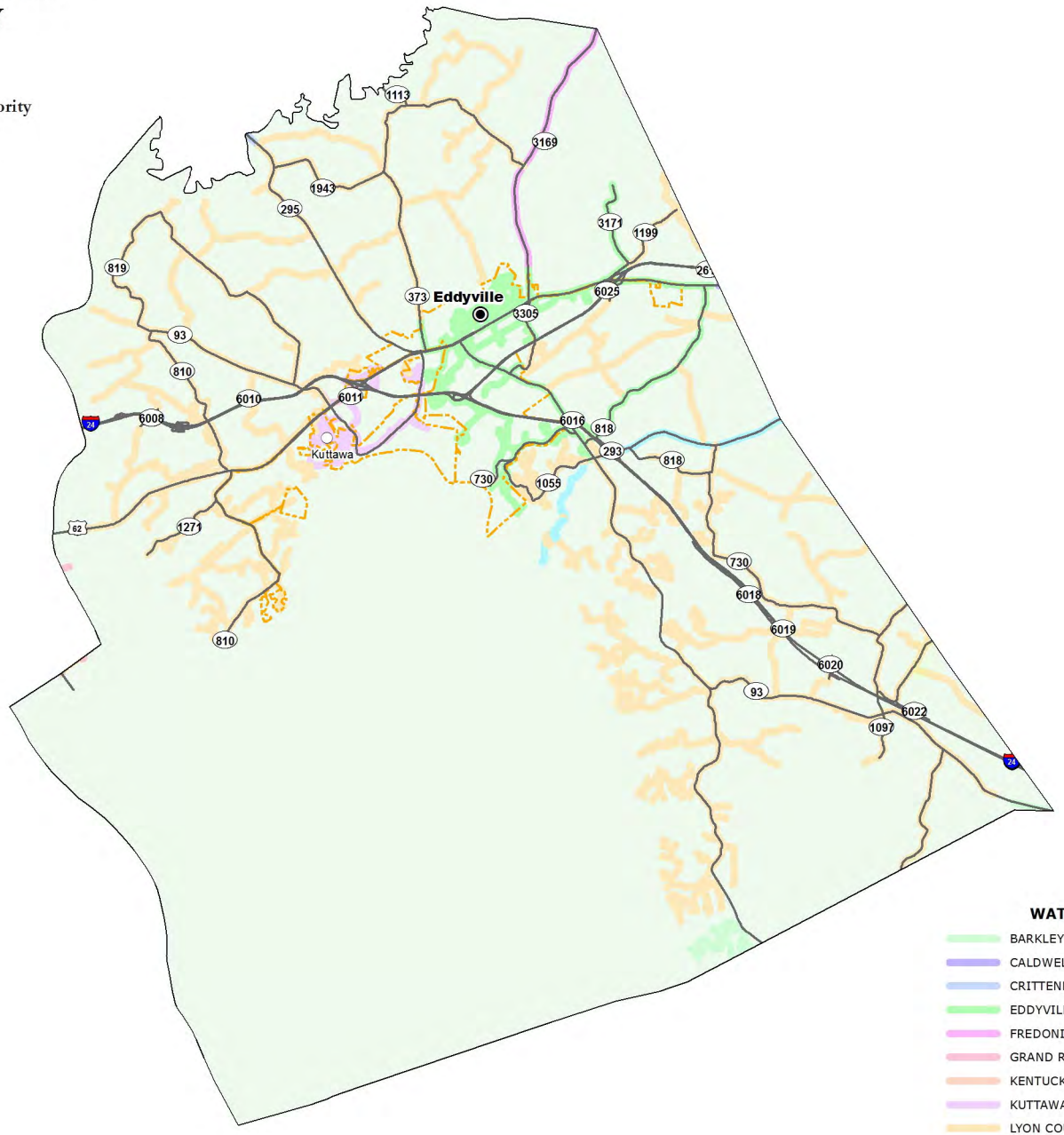
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January, 2013

Water Resource Information System



WATER SERVICE BY OWNER

- BARKLEY LAKE WATER DISTRICT
- CALDWELL COUNTY WATER DISTRICT
- CRITTENDEN-LIVINGSTON COUNTY WATER DISTRICT
- EDDYVILLE WATER DEPARTMENT
- FREDONIA WATER DEPARTMENT
- GRAND RIVERS WATER SYSTEM
- KENTUCKY STATE PENITENTIARY
- KUTTAWA WATER DEPARTMENT
- LYON COUNTY WATER DISTRICT
- PRINCETON WATER & WASTEWATER COMMISSION

System Summary for Eddyville Water Department

PWSID	KY0720113	Treats Water	Yes, 1 plant with total capacity of 1.500 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	Yes, 1 source.
Employees	3	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	Yes, to 3 purchasers.
Inside Mun. Cost	$30.26 per 4,000 gallons.	Storage Capacity	Yes, 4 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	$34.22 per 4,000 gallons.	Total Connections	1,395
Residential Customers	1,129	Total Produced (MG)	151.304
Commercial Customers	192	Total Purchased (MG)	-
Institutional Customers	66	Total Inside Usage (MG)	75.933
Industrial Customers	5	Total Wholesale Sold (MG)	35.057
Wholesale Customers	3	Estimated Pct. Water Loss	27%
Total Distribution System Line Length = 51.55 miles (Distribution: 47.28 miles, Transmission: 4.27 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Eddyville Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21143012	City of Eddyville - Automated Meter Reading	3-5 Years	Not Funded	$260,000	Lyon		3

System Summary for Kentucky State Penitentiary

PWSID	KY0720552	Treats Water	Yes, 1 plant with total capacity of 0.504 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	State Agency	Groundwater Source	No
Employees	1	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	1
Residential Customers	-	Total Produced (MG)	71.774
Commercial Customers	-	Total Purchased (MG)	1.527
Institutional Customers	-	Total Inside Usage (MG)	71.774
Industrial Customers	1	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	2%

Total Distribution System Line Length = 0.25 miles (Distribution: 0.21 miles, Transmission: 0.04 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Kentucky State Penitentiary

System Summary for Kuttawa Water Department

PWSID	KY0720227	Treats Water	Yes, 1 plant with total capacity of 0.720 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	2	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$17.72 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	$35.22 per 4,000 gallons.	Total Connections	431
Residential Customers	435	Total Produced (MG)	74.189
Commercial Customers	38	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	31.306
Industrial Customers	-	Total Wholesale Sold (MG)	39.123
Wholesale Customers	1	Estimated Pct. Water Loss	5%
Total Distribution System Line Length = 15.23 miles (Distribution: 15.18 miles, Transmission: 0.05 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Kuttawa Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21139026	Crittenden-Livingston Water District - Distribution Upgrade	3-5 Years	Not Funded	$1,160,000	Livingston	3	1
WX21143006	City of Kuttawa - Water Quality Project	3-5 Years	Partially Funded	$200,000	Lyon	10	7
WX21143011	City of Kuttawa - I-24 Water Storage Tank	3-5 Years	Not Funded	$700,000	Lyon	16	1
WX21143013	City of Kuttawa - Automated Meter Reading System	3-5 Years	Not Funded	$150,000	Lyon		4
WX21143005	Kuttawa - Emergency Standby Generators	3-5 Years	Not Funded	$100,000	Lyon		6

System Summary for Lyon County Water District

PWSID	KY0720933	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	4	Wholesale Purchaser	Yes, from 5 providers.
Non-Municipal Cost	$36.06 per 4,000 gallons.	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	2,533
Residential Customers	2,488	Total Produced (MG)	-
Commercial Customers	44	Total Purchased (MG)	116.416
Institutional Customers	-	Total Inside Usage (MG)	91.843
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	1	Estimated Pct. Water Loss	21%

Total Distribution System Line Length = 225.06 miles (Distribution: 225.06 miles, Transmission: 0.00 miles).

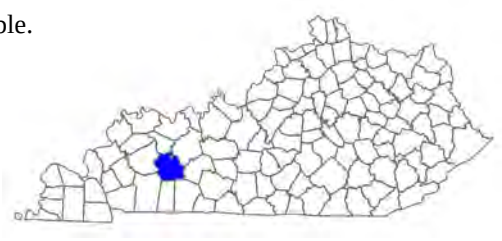
MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Lyon County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21139026	Crittenden-Livingston Water District - Distribution Upgrade	3-5 Years	Not Funded	$1,160,000	Livingston	3	1
WX21143008	LCWD - System Rehabilitation and Improvements	3-5 Years	Not Funded	$1,038,000	Lyon	23	2
WX21143004	Lyon County Water District - Emergency Standby Generators	3-5 Years	Not Funded	$100,000	Lyon		5
WX21143009	LCWD - Automated Meter System	0-2 Years	Not Funded	$530,000	Lyon		

Muhlenberg County

- 2010 census population of 31,499 (13,699 households) with 97% serviceable.
- Projected 2020 population of 31,466 (change of -33).
- Muhlenberg County has 669.91 miles of existing water lines.
- 13.00 miles of line extensions proposed in the next 10 years.
- 4.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $15,362,632.
- There are no projects planned from 6 to 10 years.



Muhlenberg County has a 2010 census population count of 31,499 (13,699 households) with a projected 2020 population count of 31,466 (12,337 households). Public water is currently available to approximately 97 percent of the county's households based on 2010 census counts. Over the next ten years approximately 27 serviceable households will be added through the construction of 13.00 miles of water line extensions and approximately 10,530 instances of improved service through the rehabilitation of 4.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Butler County Water System Inc	3	$890,000	11	75	2.00	4.00	-
Central City Municipal Water & Sewer System	2	$8,800,000	14	4,177	8.00	-	-
City of Greenville	2	$565,000	-	4,129	-	-	-
Muhlenberg County Water District #1	2	$1,760,382	2	-	3.00	-	-
Muhlenberg County Water District #3	1	$47,250	-	2,149	-	-	-
Warren County Water District	1	$3,300,000	-	-	-	-	-
Totals:	**11**	**$15,362,632**	**27**	**10,530**	**13.00**	**4.00**	**-**

Community Drinking Water Systems in Muhlenberg County

Note: Serviceability counts are for households within Muhlenberg county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0890071	Central City Municipal Water & Sewer System	Muhlenberg	4,791	2,219
KY0890106	Drakesboro Water & Sewer	Muhlenberg	663	308
KY0890170	Greenville Utilities Commission	Muhlenberg	4,728	2,131
KY0890302	Muhlenberg County Water District #1	Muhlenberg	13,854	6,091
KY0890304	Muhlenberg County Water District #3	Muhlenberg	4,964	2,225
KY0160052	Butler County Water System	Butler	623	276
		Totals:	29,623	13,250

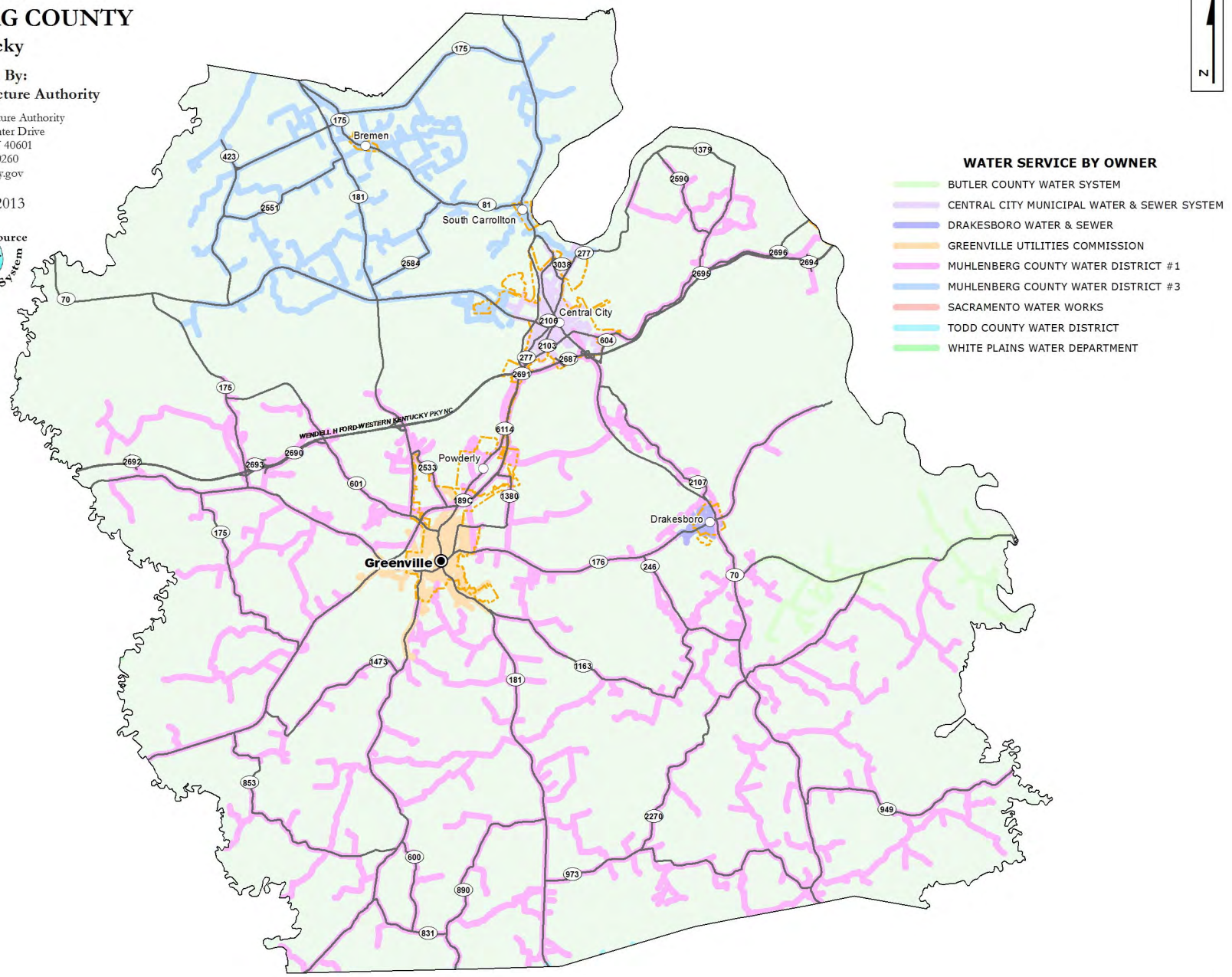
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Water Resource Information System



System Summary for Central City Municipal Water & Sewer System

PWSID	KY0890071	Treats Water	Yes, 1 plant with total capacity of 4.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Municipal Utility Board or Commission	Groundwater Source	No
Employees	18	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	$23.24 per 4,000 gallons.	Storage Capacity	Yes, 4 tanks with total capacity of 3.000 MG.
Outside Mun. Cost	$30.92 per 4,000 gallons.	Total Connections	2,138
Residential Customers	1,880	Total Produced (MG)	1,165.446
Commercial Customers	256	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	265.960
Industrial Customers	-	Total Wholesale Sold (MG)	741.751
Wholesale Customers	2	Estimated Pct. Water Loss	14%
Total Distribution System Line Length = 43.15 miles (Distribution: 42.59 miles, Transmission: 0.55 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Central City Municipal Water & Sewer System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21177031	Central City - Radio Read Water Meter Project	0-2 Years	Not Funded	$500,000	Muhlenberg		8
WX21177032	Central City - City of Greenville - Supply System	3-5 Years	Not Funded	$8,300,000	Muhlenberg		

System Summary for Drakesboro Water & Sewer

PWSID	KY0890106	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	3	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$51.20 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	$53.20 per 4,000 gallons.	Total Connections	313
Residential Customers	296	Total Produced (MG)	-
Commercial Customers	3	Total Purchased (MG)	19.218
Institutional Customers	-	Total Inside Usage (MG)	20.650
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	-7%
Total Distribution System Line Length = 8.46 miles (Distribution: 8.46 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Drakesboro Water & Sewer

System Summary for Greenville Utilities Commission

PWSID	KY0890170	Treats Water	Yes, 1 plant with total capacity of 1.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Municipal Utility Board or Commission	Groundwater Source	No
Employees	9	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	$24.72 per 4,000 gallons.	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$27.18 per 4,000 gallons.	Total Connections	2,049
Residential Customers	1,701	Total Produced (MG)	208.328
Commercial Customers	295	Total Purchased (MG)	17.318
Institutional Customers	-	Total Inside Usage (MG)	145.478
Industrial Customers	51	Total Wholesale Sold (MG)	-
Wholesale Customers	1	Estimated Pct. Water Loss	36%
Total Distribution System Line Length = 51.95 miles (Distribution: 45.51 miles, Transmission: 6.44 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Greenville Utilities Commission

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21177028	Greenville - AMR Project	3-5 Years	Not Funded	$335,000	Muhlenberg		6
WX21177021	Greenville - Emergency Standby Generators	3-5 Years	Not Funded	$144,000	Muhlenberg		11
WX21177032	Central City - City of Greenville - Supply System	3-5 Years	Not Funded	$8,300,000	Muhlenberg		
WX21177035	Greenville - Water Resource Redundancy Project	3-5 Years	Not Funded	$230,000	Muhlenberg		

System Summary for Muhlenberg County Water District #1

PWSID	KY0890302	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	21	Wholesale Purchaser	Yes, from 4 providers.
Non-Municipal Cost	$39.34 per 4,000 gallons.	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 11 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	-	Total Connections	5,937
Residential Customers	5,700	Total Produced (MG)	-
Commercial Customers	230	Total Purchased (MG)	475.785
Institutional Customers	-	Total Inside Usage (MG)	343.468
Industrial Customers	7	Total Wholesale Sold (MG)	36.536
Wholesale Customers	2	Estimated Pct. Water Loss	20%

Total Distribution System Line Length = 417.26 miles (Distribution: 417.26 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Muhlenberg County Water District #1

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21177018	Muhlenberg County Water District Nebo Pump Station, Watermain & Tank	3-5 Years	Not Funded	$1,175,985	Muhlenberg	7	1
WX21177023	Muhlenberg County Water District #1 - System Rehabilitation	3-5 Years	Not Funded	$584,397	Muhlenberg	46	7

System Summary for Muhlenberg County Water District #3

PWSID	KY0890304	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	7	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$28.65 per 4,000 gallons.	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	2,116
Residential Customers	2,027	Total Produced (MG)	-
Commercial Customers	88	Total Purchased (MG)	266.234
Institutional Customers	-	Total Inside Usage (MG)	162.133
Industrial Customers	-	Total Wholesale Sold (MG)	59.653
Wholesale Customers	1	Estimated Pct. Water Loss	17%

Total Distribution System Line Length = 129.24 miles (Distribution: 129.24 miles, Transmission: 0.00 miles).

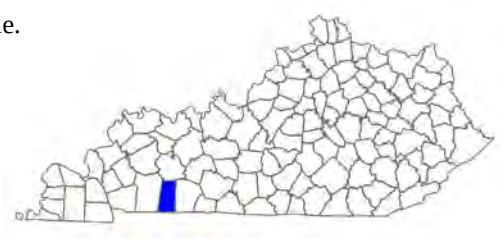
MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Muhlenberg County Water District #3

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21177018	Muhlenberg County Water District Nebo Pump Station, Watermain & Tank	3-5 Years	Not Funded	$1,175,985	Muhlenberg	7	1
WX21177033	MCWD #3 - Pump Station Efficiency Upgrade	0-2 Years	Not Funded	$47,250	Muhlenberg	59	9
WX21177034	MCWD #3 - Portable Flow Meters	3-5 Years	Not Funded	$9,825	Muhlenberg		10

Todd County

- 2010 census population of 12,460 (5,286 households) with 96% serviceable.
- Projected 2020 population of 12,958 (change of 498).
- Todd County has 451.94 miles of existing water lines.
- 5.00 miles of line extensions proposed in the next 10 years.
- 14.00 miles of line rehabilitation proposed in the next 10 years.
- 1.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $95,045,500.
- Estimated funding needs for projects from 6 to 10 years: $13,000,000.



Todd County has a 2010 census population count of 12,460 (5,286 households) with a projected 2020 population count of 12,958 (4,989 households). Public water is currently available to approximately 96 percent of the county's households based on 2010 census counts. Over the next ten years approximately 2 serviceable households will be added through the construction of 5.00 miles of water line extensions and approximately 257 instances of improved service through the rehabilitation of 14.00 miles of existing water lines and other appurtenances. 1.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Elkton	1	$200,000	-	-	-	-	-
City of Guthrie	2	$1,360,000	-	97	-	3.00	-
City of Trenton	2	$465,500	1	-	-	-	-
Logan-Todd Regional Water Commission	4	$101,820,000	1	-	5.00	-	1.00
Todd County Water District	1	$4,200,000	-	160	-	11.00	-
Totals:	**10**	**$108,045,500**	**2**	**257**	**5.00**	**14.00**	**1.00**

Community Drinking Water Systems in Todd County

Note: Serviceability counts are for households within Todd county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY1100121	Elkton Utilities	Todd	2,167	957
KY1100171	Guthrie Water Works	Todd	1,399	639
KY1100944	Todd County Water District	Todd	7,707	3,164
KY1100428	Trenton Water Works	Todd	584	269
KY0240521	Christian County Water District	Christian	42	19
		Totals:	11,899	5,048

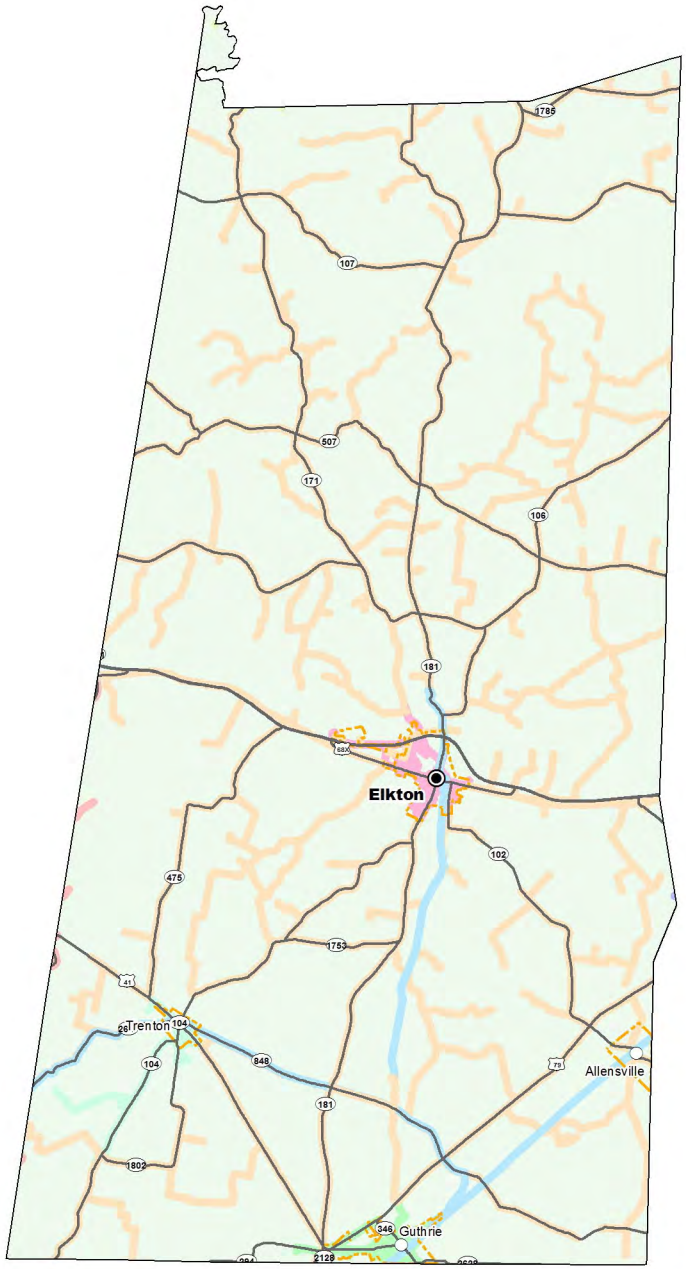
WATER SERVICE AREAS
TODD COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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January, 2013

Water Resource Information System



WATER SERVICE BY OWNER

- CHRISTIAN COUNTY WATER DISTRICT
- ELKTON UTILITIES
- GUTHRIE WATER WORKS
- LEWISBURG WATER WORKS
- LOGAN/TODD REGIONAL WATER COMMISSION
- MUHLENBERG COUNTY WATER DISTRICT #1
- RUSSELLVILLE MUNICIPAL WATER SYSTEM
- SOUTH LOGAN WATER ASSOCIATION
- TODD COUNTY WATER DISTRICT
- TRENTON WATER WORKS

System Summary for Elkton Utilities

PWSID	KY1100121	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	5	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$37.00 per 4,000 gallons.	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$48.39 per 4,000 gallons.	Total Connections	918
Residential Customers	743	Total Produced (MG)	-
Commercial Customers	169	Total Purchased (MG)	52.943
Institutional Customers	-	Total Inside Usage (MG)	47.556
Industrial Customers	6	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	10%

Total Distribution System Line Length = 21.50 miles (Distribution: 21.50 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Elkton Utilities

System Summary for Guthrie Water Works

PWSID	KY1100171	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	3	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$33.82 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	$42.91 per 4,000 gallons.	Total Connections	740
Residential Customers	693	Total Produced (MG)	-
Commercial Customers	47	Total Purchased (MG)	48.316
Institutional Customers	-	Total Inside Usage (MG)	32.516
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	33%

Total Distribution System Line Length = 19.43 miles (Distribution: 19.43 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Guthrie Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21219008	Guthrie Water System Rehabilitation Project	0-2 Years	Not Funded	$1,300,000	Todd	44	6
WX21219029	Guthrie - Emergency Standby Generators	3-5 Years	Not Funded	$60,000	Todd		10

System Summary for Logan/Todd Regional Water Commission

PWSID	KY1101005	Treats Water	Yes, 1 plant with total capacity of 10.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Regional Water Commission	Groundwater Source	No
Employees	11	Wholesale Purchaser	No
Non-Municipal Cost	$15.28 per 4,000 gallons.	Wholesale Provider	Yes, to 12 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 3 tanks with total capacity of 3.000 MG.
Outside Mun. Cost	-	Total Connections	
Residential Customers	-	Total Produced (MG)	1,396.217
Commercial Customers	-	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	19.000
Industrial Customers	-	Total Wholesale Sold (MG)	1,251.735
Wholesale Customers	12	Estimated Pct. Water Loss	9%
Total Distribution System Line Length = 103.13 miles (Distribution: 0.00 miles, Transmission: 103.13 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Logan/Todd Regional Water Commission

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21219035	Logan Todd RWC – Springfield, Tennessee Supply Project	0-2 Years	Not Funded	$26,500,000	Todd	4	1
WX21219023	Logan-Todd Rwc/Guthrie - Clarksville, Tn Interconnection	6-10 Years	Not Funded	$13,000,000	Todd	38	8
WX21219019	Logan-Todd Regional Water Commission - WTP Debt Reduction	3-5 Years	Not Funded	$59,120,000	Todd		9
WX21219031	LTRWC - Ft. Campbell Supplemental Water Supply Project	3-5 Years	Not Funded	$6,500,000	Todd		
WX21219020	Logan-Todd Rwc Watermain Extension & Tank	3-5 Years	Not Funded	$3,200,000	Todd		

System Summary for Todd County Water District

PWSID	KY1100944	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	6	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$45.53 per 4,000 gallons.	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 5 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	3,391
Residential Customers	3,338	Total Produced (MG)	-
Commercial Customers	51	Total Purchased (MG)	193.423
Institutional Customers	-	Total Inside Usage (MG)	157.173
Industrial Customers	-	Total Wholesale Sold (MG)	0.268
Wholesale Customers	2	Estimated Pct. Water Loss	19%

Total Distribution System Line Length = 394.74 miles (Distribution: 394.74 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Todd County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21219018	Todd County Water District - KY Hwy 181 Upgrade	3-5 Years	Not Funded	$4,200,000	Todd	14	2
WX21219024	Elkton - Water Storage Tank Improvements	3-5 Years	Not Funded	$200,000	Todd	48	7

System Summary for Trenton Water Works

PWSID	KY1100428	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	2	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$37.92 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	$56.88 per 4,000 gallons.	Total Connections	320
Residential Customers	307	Total Produced (MG)	-
Commercial Customers	13	Total Purchased (MG)	18.520
Institutional Customers	-	Total Inside Usage (MG)	17.000
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	8%

Total Distribution System Line Length = 14.48 miles (Distribution: 13.63 miles, Transmission: 0.85 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Trenton Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21219014	Trenton - Water System Improvements	3-5 Years	Not Funded	$400,000	Todd	41	5
WX21219034	Trenton - W.F. Ware Property: Water Extensions	0-2 Years	Not Funded	$65,500	Todd		

Trigg County

- 2010 census population of 14,339 (7,810 households) with 98% serviceable.
- Projected 2020 population of 16,244 (change of 1,905).
- Trigg County has 552.96 miles of existing water lines.
- 55.00 miles of line extensions proposed in the next 10 years.
- 2.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $8,512,901.
- There are no projects planned from 6 to 10 years.



Trigg County has a 2010 census population count of 14,339 (7,810 households) with a projected 2020 population count of 16,244 (6,986 households). Public water is currently available to approximately 98 percent of the county's households based on 2010 census counts. Over the next ten years approximately 59 serviceable households will be added through the construction of 55.00 miles of water line extensions and approximately 5,822 instances of improved service through the rehabilitation of 2.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Barkley Lake Water District	3	$4,843,401	59	5,800	55.00	-	-
Christian County Water District	1	$1,750,000	-	-	-	-	-
City of Cadiz	2	$1,919,500	-	22	-	2.00	-
Totals:	**6**	**$8,512,901**	**59**	**5,822**	**55.00**	**2.00**	**-**

Community Drinking Water Systems in Trigg County

Note: Serviceability counts are for households within Trigg county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY1110019	Barkley Lake Water District	Trigg	10,008	5,792
KY1110054	Cadiz Water & Sewer Commission	Trigg	3,940	1,818
		Totals:	13,948	7,610

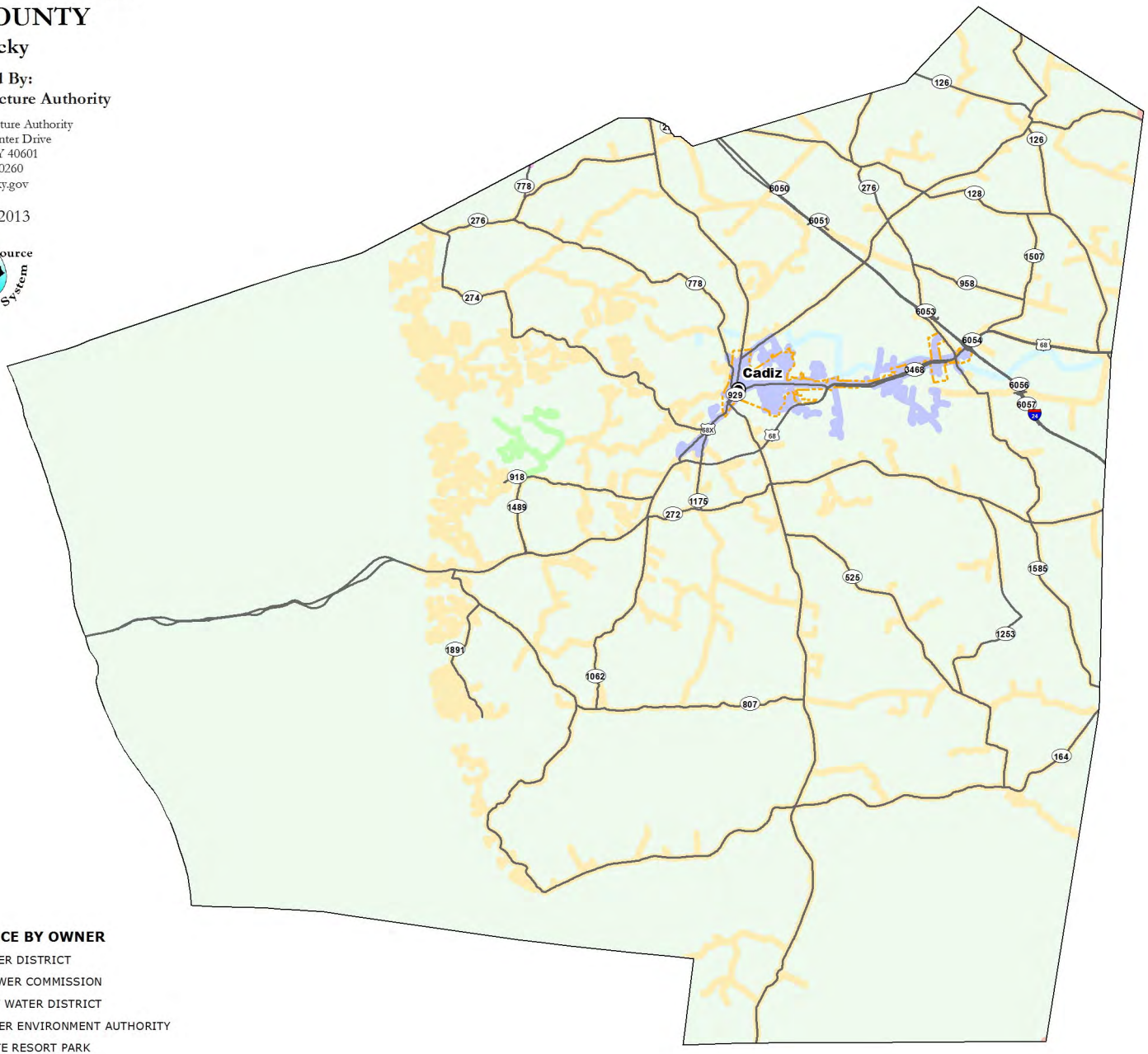
WATER SERVICE AREAS
TRIGG COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

Kentucky Infrastructure Authority
1024 Capital Center Drive
Frankfort, KY 40601
(502) 573-0260
http://kia.ky.gov

January, 2013

Water Resource Information System



WATER SERVICE BY OWNER

- BARKLEY LAKE WATER DISTRICT
- CADIZ WATER & SEWER COMMISSION
- CHRISTIAN COUNTY WATER DISTRICT
- HOPKINSVILLE WATER ENVIRONMENT AUTHORITY
- LAKE BARKLEY STATE RESORT PARK
- LYON COUNTY WATER DISTRICT

System Summary for Barkley Lake Water District

PWSID	KY1110019	Treats Water	Yes, 1 plant with total capacity of 4.032 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	17	Wholesale Purchaser	No
Non-Municipal Cost	$34.28 per 4,000 gallons.	Wholesale Provider	Yes, to 3 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 8 tanks with total capacity of 3.000 MG.
Outside Mun. Cost	-	Total Connections	6,340
Residential Customers	5,153	Total Produced (MG)	538.997
Commercial Customers	80	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	378.849
Industrial Customers	6	Total Wholesale Sold (MG)	68.822
Wholesale Customers	3	Estimated Pct. Water Loss	17%
Total Distribution System Line Length = 491.67 miles (Distribution: 491.34 miles, Transmission: 0.32 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Barkley Lake Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21221008	Barkley Lake Water District - Water Line Extension	3-5 Years	Not Funded	$3,850,000	Trigg	26	2
WX21221014	Barkley Lake Water District - Sludge Storage Lagoon Improvements	3-5 Years	Not Funded	$349,901	Trigg	39	4
WX21221010	Barkley Lake Water District - Emergency Standby Generators	3-5 Years	Not Funded	$643,500	Trigg		5

System Summary for Cadiz Water & Sewer Commission

PWSID	KY1110054	Treats Water	Yes, 1 plant with total capacity of 0.792 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Incorporated City	Groundwater Source	No
Employees	9	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$26.48 per 4,000 gallons.	Storage Capacity	Yes, 4 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$35.48 per 4,000 gallons.	Total Connections	1,863
Residential Customers	1,576	Total Produced (MG)	225.363
Commercial Customers	235	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	173.651
Industrial Customers	2	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	23%

Total Distribution System Line Length = 55.33 miles (Distribution: 55.17 miles, Transmission: 0.17 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Cadiz Water & Sewer Commission

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21221009	Cadiz - IGA Water Tank Replacement	3-5 Years	Not Funded	$957,000	Trigg	15	1
WX21221013	Cadiz - Line Rehabilitation - Will Jackson Road Hwy 778	3-5 Years	Not Funded	$962,500	Trigg	31	3
WX21221010	Barkley Lake Water District - Emergency Standby Generators	3-5 Years	Not Funded	$643,500	Trigg		5

Purchase Area Development District (PUADD)

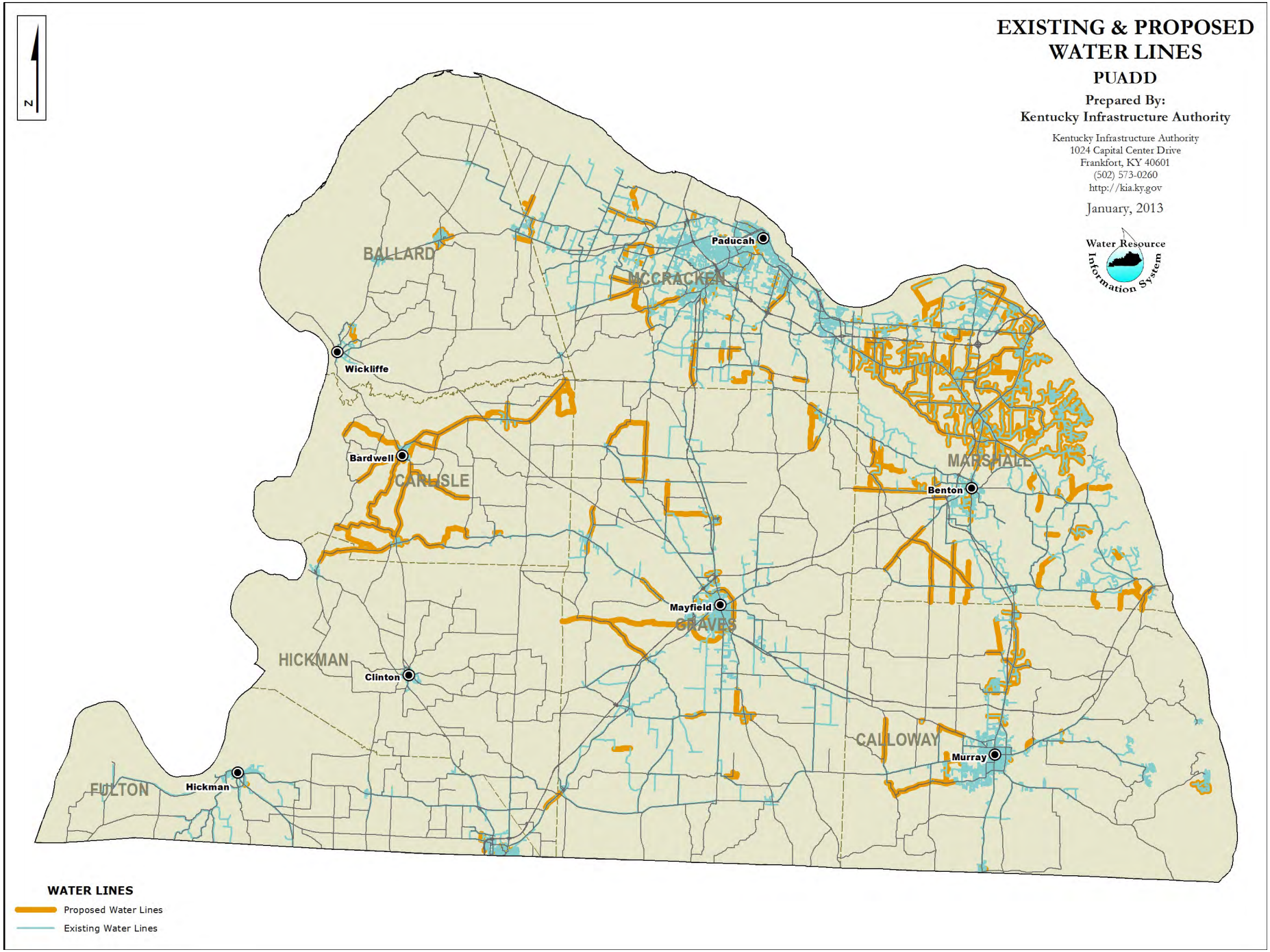


- 2010 census population of 196,393 (93,709 households) with 79% serviceable.
- Projected 2020 population of 201,697 (change of 5,304).
- 2,178.64 miles of existing water lines.
- 17.00 miles of line extensions proposed in the next 10 years.
- 484.00 miles of line rehabilitation proposed in the next 10 years.
- 13.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $106,937,624.
- Estimated funding needs for projects from 6 to 10 years: $8,026,440.
- Average age of structures: water treatment plants is 34 years; water tanks is 38 years.
- Total number of interconnected systems is 21.
- 641 miles of asbestos concrete pipe currently in use.
- 257 miles of water lines less than 15 years old.
- 155 miles of water lines between 15 and 30 years old.
- 830 miles of water lines between 31 and 50 years old.
- 547 miles of water lines between 51 and 70 years old.
- 391 miles of water lines greater than 70 years old.

Purchase Area Development District has a 2010 census population count of 196,393 (93,709 households) with a projected 2020 population count of 201,697 (86,121 households). Public water is currently available to approximately 79 percent of the district's households based on 2010 census counts. Over the next ten years approximately 603 serviceable households will be added through the construction of 17.00 miles of water line extensions and approximately 72,453 instances of improved service through the rehabilitation of 484.00 miles of existing water lines and other appurtenances. 13.00 miles of transmission lines are also proposed within this district.

County Summary for Purchase Area Development District

County Name	2010 Population	2010 Households	2020 Population	2020 Households	Serviceable Households	Percent Serviceable	Planned Cost 0 to 10 Years
Ballard	8,249	3,885	8,217	3,484	1,936	50%	$ 2,245,050
Calloway	37,191	18,065	40,411	17,019	12,190	68%	$ 6,800,100
Carlisle	5,104	2,441	4,947	2,093	951	39%	$ 11,889,978
Fulton	6,813	3,372	6,223	2,728	2,955	88%	$ 2,146,523
Graves	37,121	16,777	37,630	15,459	11,469	68%	$ 24,227,877
Hickman	4,902	2,342	4,625	1,938	906	39%	$ 850,176
McCracken	65,565	31,079	66,621	29,278	29,458	95%	$ 34,901,180
Marshall	31,448	15,748	33,023	14,122	14,267	91%	$ 31,903,180
Totals	**196,393**	**93,709**	**201,697**	**86,121**	**74,132**	**79%**	**$ 114,964,064**


EXISTING & PROPOSED
WATER LINES
PUADD
Prepared By:
Kentucky Infrastructure Authority
Kentucky Infrastructure Authority
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January, 2013
Water Resource Information System
N
BALLARD
MCCRACKEN
CARLISLE
MARSHALL
GRAVES
HICKMAN
CALLOWAY
FULTON
Paducah
Wickliffe
Bardwell
Benton
Mayfield
Clinton
Murray
Hickman
WATER LINES
Proposed Water Lines
Existing Water Lines

Community Water Systems in Purchase Area Development District County

Note: Serviceable counts include households outside the area development district.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0040020	Barlow Water System	Ballard	740	385
KY0040223	Kevil Water Department	Ballard	1,361	648
KY0040228	LaCenter Municipal Water Company	Ballard	1,070	501
KY0040259	Lovelaceville Water Company	Ballard	142	78
KY0040469	Wickliffe Municipal Water System	Ballard	996	463
KY0180509	Center Ridge #2	Calloway	116	119
KY0180502	Center Ridge #3	Calloway	87	59
KY0180549	Center Ridge Water District	Calloway	36	54
KY0180102	Dexter Almo Heights Water District	Calloway	2,143	929
KY0180308	Murray Water District #2	Calloway	715	328
KY0180309	Murray Water District #3	Calloway	643	282
KY0180306	Murray Water System	Calloway	21,108	10,013
KY0180185	South 641 Water District	Calloway	725	357
KY0180914	Stella Trailer Park	Calloway	44	22
KY0200009	Arlington Water Department	Carlisle	387	197
KY0200018	Bardwell City Utilities	Carlisle	796	430
KY0200095	Cunningham Water District	Carlisle	306	147
KY0200284	Milburn Water District	Carlisle	311	144
KY0380149	Fulton Municipal Water System	Fulton	3,282	1,763
KY0380193	Hickman Water Department	Fulton	2,867	1,298
KY0420084	Graves County Water District (Consumers)	Graves	4,882	2,133
KY0420027	Graves County Water District (Fancy Farm)	Graves	1,216	528
KY0420172	Graves County Water District (Hardeman)	Graves	873	405
KY0420194	Graves County Water District (Hickory)	Graves	3,303	1,503
KY0420405	Graves County Water District (South Graves)	Graves	2,327	1,057
KY0420274	Mayfield Electric & Water System	Graves	10,710	5,015
KY0420534	Sedalia Water District	Graves	281	129
KY0420423	Symsonia Water District	Graves	703	362
KY0420475	Wingo Water & Sewer Department	Graves	709	310
KY0530083	Columbus Water Works	Hickman	193	96
KY0530077	Utilities Inc.	Hickman	1,513	707
KY0790029	Benton Water & Sewer System	Marshall	6,554	2,959
KY0790056	Calvert City Municipal Water Department	Marshall	3,564	1,606
KY0790173	Hardin Water Department	Marshall	1,707	768
KY0790216	Jonathan Creek Water District	Marshall	4,531	2,731
KY0790319	North Marshall Water District	Marshall	10,946	5,706
KY0730533	Paducah Water Works	McCracken	59,157	28,243
KY0730454	West McCracken County Water District	McCracken	3,759	1,623
		Totals:	154,803	74,098

Purchase Area Development District
Regional Water Needs Assessment

Primary Need: **Develop Long-term Planning That Allows for Sustainability**
Secondary Need: **Extend Services to Unserved Areas**

Discussion of Area Development District Needs:

The majority of systems within the Purchase Area are smaller and have different needs than the larger, more self-sustaining systems. Long-term planning needs to be a major focus within these systems. The fallacy some systems fall into is being too focused on the short-term (day-to-day operations) and fail to acknowledge their Long-term needs and goals. A major issue for these smaller systems are their rate structure. Current rate structures must be updated to not only reflect a systems short-term priorities but allow for Long-term sustainability that will permit them to replace or repair the existing infrastructure.

The Purchase Area like the rest of the state has the majority of its area is covered as far as access to public water. There are a few areas that can still be reached with public water which is the secondary need for this area. The unserved areas that are still in need of public water are the rural areas. For the utilities to extend new service is very cost prohibitive since the areas are not heavily populated. Also the groundwater in the Purchase Area is very good and a lot of the unserved customers are not having problems with their private wells and there has not been a huge need to extend service to this areas.

Description and Determination of Planning Units:

The Purchase Area Development District is divided into eight separate planning units, which are based on the eight counties in the Purchase Area. The planning units are: Ballard County planning unit, Calloway County planning unit, Carlisle County planning unit, Fulton County planning unit, Graves County planning unit, Hickman County planning unit, Marshall County planning unit, and McCracken County planning unit.

In the Ballard County planning unit there are four water systems (City of Barlow, City of Kevil, City of Lacenter and City of Wickliffe) that serve approximately 1,936 serviceable households in Ballard County.

The Center Ridge Water District, Center Ridge Water District #2, Center Ridge Water District #3, Dexter-Almo Heights Water District, the City of Murray, Murray Water District #2, Murray Water District #3, South 641 Water District, and the Stella Trailer Park water system make up the seven water systems in the Calloway County planning unit and serve approximately 12,190 serviceable households.

The Carlisle County planning unit is comprised of four water systems (City of Arlington, City of Bardwell, Cunningham Water District, and the Milburn Water District) that serve approximately 951 serviceable households.

The Fulton County planning unit has two water systems (City of Fulton and City of Hickman) that serve approximately 2,955 serviceable households.

The Graves County planning unit also has nine water systems (Graves County Water District (Consumers), Graves County Water District (Fancy Farm), Graves County Water District (Hardeman), Graves County Water District (South Graves), Hickory Water District, Mayfield Electric & Water System, Sedalia Water District, Symsonia Water District, and the City of Wingo) that serve approximately 11,469 serviceable households in Graves County.

The Water Service Corporation of Kentucky and the City of Columbus are the two water systems in the Hickman County planning unit and serves approximately 906 serviceable households.

The Marshall County planning unit has five water systems. With those systems being the City of Benton, Calvert City, City of Hardin, Jonathan Creek Water District, and the North Marshall Water District. Together these systems serve approximately 14,267 serviceable households.

Paducah Water Works along with the West McCracken County Water District make up the McCracken County planning unit. These two systems serve approximately 29,458 serviceable households of McCracken County.

Purchase Area Development District
Project Ranking Methodology

The Purchase Area Water Management Council uses a drinking water ranking criteria to establish a regional priority list for water projects in the Purchase Area.

The drinking water ranking criteria consists of five separate categories.

Project Type:

1. Elimination of a Public Water System through a merger- project will receive 25 points if a public water system is being eliminated by merging with other system.
2. Elimination of a water treatment plant through an interconnection- projects will receive 23 points if system is eliminated their WTP and setting up an interconnection with another system to purchase water and will still be a separate system after the interconnection is complete.
3. Rehabilitation and/or replacing aging infrastructure- projects will receive 20 points if an utility is rehabbing any infrastructure within their system.
4. Construction of supplemental potable or raw water supply- projects will receive 17 points if an utility is constructing a new well to supplement their existing supply or an utility is constructing a new interconnect to supplement their existing interconnections.
5. Construction of a new WTP or expansion- projects will receive 15 points if an utility is constructing a new WTP, either to replace the old WTP or a secondary WTP, or if the utility is expanding the capacity of the existing WTP.
6. Construction of new water storage tank- projects will receive 10 points if an utility is constructing a water storage tank to supplement their existing tanks.
7. Extension of service to unserved households- project will receive 20 points if the proposed project will add an average of 9 or more new customers per mile, 19 points for an average of 7-8 new customers per mile, 18 points for an average of 5-6 new customers per mile, 15 points for an average of 3-4 new customers per mile, and 10 points for an average of 1-2 new customers per mile.

Compliance and Enforcement:

A project will receive 5 points if the utility is using this project to achieve full or partial compliance with a court or agreed order.

Funding Status

Projects that are 50%-99% funded and they receive 10 points, the second section is for projects that are 1%-49% funded and they receive 5 points. Any projects that are not funded receive zero points for this category.

Project Status

This category has three sections and a project can receive points in all sections if the utility has completed them. The first section is Engineering plans and specs submitted to DOW, a project will receive 15 points if this step has been completed. The second section is Preliminary engineering report complete, a project will receive 10 points if this step is completed. The third section is Estimated engineer's budget complete, a project will receive 5 points if this step is complete.

County Ranking

In this category, projects will receive points based on their county ranking. A number one ranked project in the county will receive 24 points, a number two ranked project in the county will receive 20 points, a number three ranked project in the county will receive 16 points, a number four ranked project in the county will receive 14 points, and a number five ranked project in the county will receive 12 points. Only the top 5 projects in each county will be ranked regionally. In the event of a tie-breaker between projects, the cost per household will be used to break the tie.

In the event of a tie-breaker between projects, the cost per household will be used to break the tie.

Project Rankings For Purchase Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21035006	Dexter-Almo Water- Hopkins Rd Loop and Metering Installation	0-2 Years	Partially Funded	$455,000	Calloway	1	2
WX21157046	Marshall County Fiscal Court-Wv 2020 Projects	0-2 Years	Partially Funded	$6,000,000	Marshall	2	2
WX21145085	Paducah Water Work-24" Transmission Main Redundancy	3-5 Years	Not Funded	$4,493,000	McCracken	3	1
WX21157007	City of Benton-Line Replacement Along Main Street	3-5 Years	Not Funded	$465,000	Marshall	4	1
WX21075005	Hickman Water Department-WTP Rehab	0-2 Years	Partially Funded	$900,523	Fulton	5	2
WX21145001	Paducah Water Works-Interconnection Project	0-2 Years	Not Funded	$250,000	McCracken	6	4
WX21105009	Columbus Water Works - Upgrades to WTP and New Clearwell	3-5 Years	Not Funded	$400,000	Hickman	7	1
WX21039025	Milburn Water District - Water Tower	3-5 Years	Not Funded	$355,000	Carlisle	8	1
WX21007021	Wickliffe - Morning Meadows Waterline Loop	3-5 Years	Not Funded	$240,050	Ballard	9	1
WX21035008	City of Murray- System Improvements	3-5 Years	Not Funded	$315,000	Calloway	10	1
WX21075007	Fulton Municipal Water System-Line Replacement	0-2 Years	Partially Funded	$700,000	Fulton	11	4
WX21035027	Murray - SouthWest Water Main Extension	3-5 Years	Not Funded	$1,200,000	Calloway	12	3
WX21145016	Paducah Water-Lovelaceville Road Extension	3-5 Years	Not Funded	$105,000	McCracken	13	3
WX21105010	Columbus Water Works - Water Tank Maintenance	3-5 Years	Not Funded	$40,000	Hickman	14	2
WX21083051	Mayfield Electric & Water - Fuller Tank Rehab	3-5 Years	Not Funded	$250,000	Graves	15	2
WX21007019	LaCenter Municipal Water-Ac Line Replacement Phase I	3-5 Years	Not Funded	$200,000	Ballard	16	2
WX21039021	City of Bardwell-Well Relocation	3-5 Years	Not Funded	$300,000	Carlisle	17	2
WX21075002	Fulton Municipal Water-Demolition of Old Clear Well & Degasifier	3-5 Years	Not Funded	$386,000	Fulton	18	3
WX21083015	Symsonia Extension KY 131	3-5 Years	Not Funded	$333,697	Graves	19	1
WX21157034	City of Calvert City-Johnson Subdivision Extension	0-2 Years	Not Funded	$20,000	Marshall	20	4
WX21157039	City of Calvert City-New Well Field	3-5 Years	Not Funded	$200,000	Marshall	21	3
WX21083013	City of Wingo- Replace Water Tank	3-5 Years	Not Funded	$300,000	Graves	22	3
WX21039031	City of Arlington- WTP and Wells Relocation	3-5 Years	Not Funded	$600,000	Carlisle	23	3
WX21007024	Kevil - Apperson Road Water Main Extension	3-5 Years	Not Funded	$250,000	Ballard	24	3
WX21145079	Paducah Water Work-Massac Elevated Storage Tank	3-5 Years	Not Funded	$2,067,000	McCracken	25	2
WX21083075	Hickory Water District - AC Main Replacement On Treeland	3-5 Years	Not Funded	$80,000	Graves	26	4
WX21035001	Center Ridge Water District #2 & #3 System Improvements.	3-5 Years	Not Funded	$660,000	Calloway	27	4
WX21039005	Cunningham-Replace AC Mains	3-5 Years	Not Funded	$830,000	Carlisle	28	4
WX21075015	City of Hickman- New Water Tank	3-5 Years	Not Funded	$150,000	Fulton	29	1
WX21083020	Sedalia Water-Hydrants, Sample Stations, Land Acquisitions	3-5 Years	Not Funded	$10,000	Graves	30	5
WX21035026	South 641 Water District-Water Line Replacement & Isolation Valves Installation	3-5 Years	Not Funded	$100,000	Calloway	31	5
WX21145043	Paducah Water-Bryan Road Extension	3-5 Years	Not Funded	$165,000	McCracken	32	5
WX21039003	City of Bardwell-Extension to Cunningham	3-5 Years	Not Funded	$208,780	Carlisle	33	5
			Total Cost:	**$23,029,050**			

Ballard County

- 2010 census population of 8,249 (3,885 households) with 50% serviceable.
- Projected 2020 population of 8,217 (change of -32).
- Ballard County has 60.22 miles of existing water lines.
- There are no line extensions proposed in the next 10 years.
- 10.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $2,245,050.
- There are no projects planned from 6 to 10 years.



Ballard County has a 2010 census population count of 8,249 (3,885 households) with a projected 2020 population count of 8,217 (3,484 households). Public water is currently available to approximately 50 percent of the county's households based on 2010 census counts. Over the next ten years approximately 478 instances of improved service through the rehabilitation of 10.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Kevil	3	$1,055,000	-	57	-	1.00	-
City of La Center	4	$900,000	-	361	-	8.00	-
City of Wickliffe	1	$240,050	-	10	-	1.00	-
Lovelaceville Water Company	1	$50,000	-	50	-	-	-
Totals:	**9**	**$2,245,050**	**-**	**478**	**-**	**10.00**	**-**

Community Drinking Water Systems in Ballard County

Note: Serviceability counts are for households within Ballard county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0040020	Barlow Water System	Ballard	740	385
KY0040223	Kevil Water Department	Ballard	1,040	509
KY0040228	LaCenter Municipal Water Company	Ballard	1,070	501
KY0040259	Lovelaceville Water Company	Ballard	142	78
KY0040469	Wickliffe Municipal Water System	Ballard	996	463
		Totals:	3,988	1,936

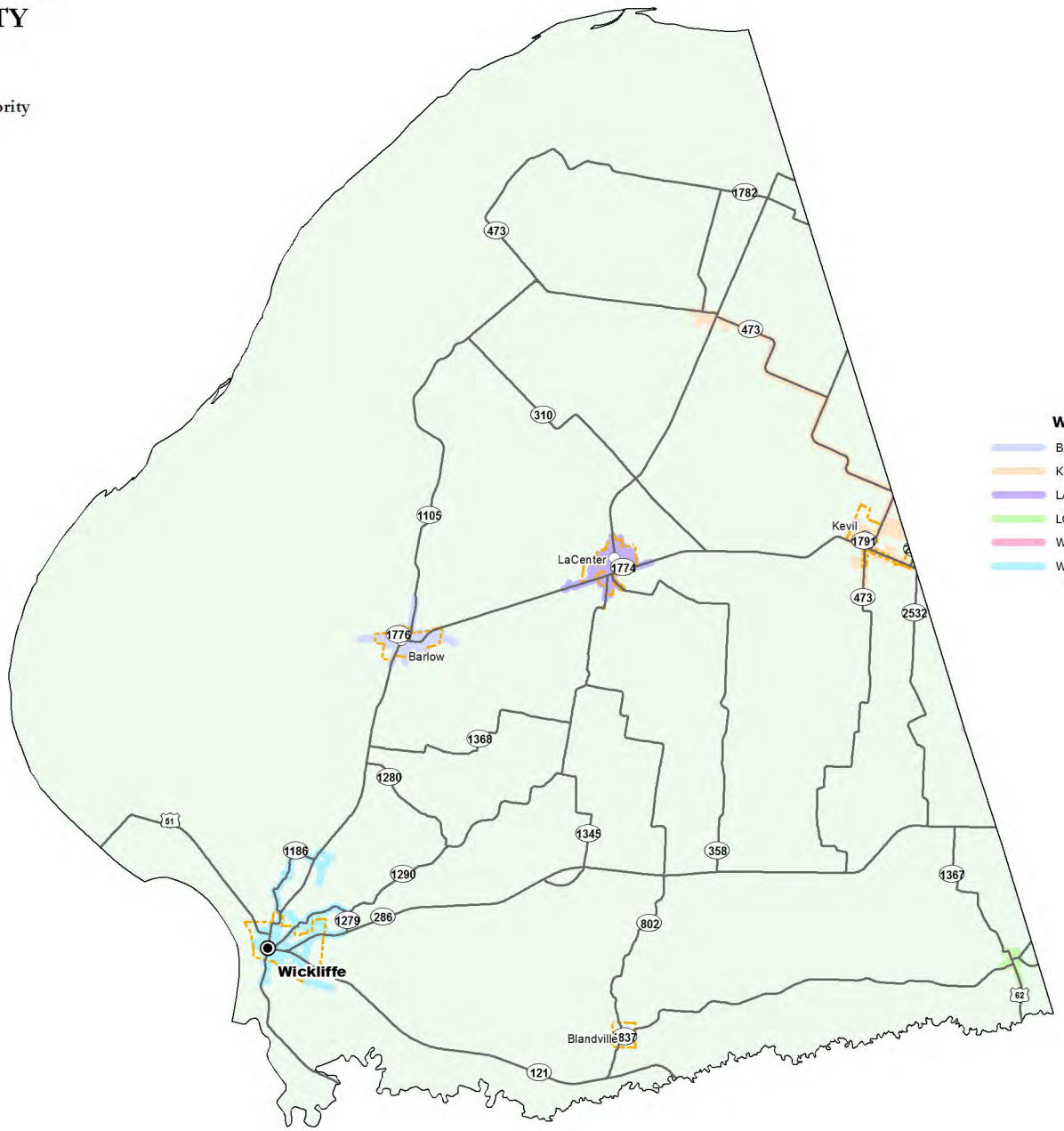
WATER SERVICE AREAS
BALLARD COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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January, 2013

Water Resource Information System



System Summary for Barlow Water System

PWSID	KY0040020	Treats Water	Yes, 1 plant with total capacity of 0.380 MGD.
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	Yes, 2 sources.
Employees	3	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$21.00 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	343
Residential Customers	337	Total Produced (MG)	26.000
Commercial Customers	5	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	24.690
Industrial Customers	1	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	5%
Total Distribution System Line Length = 9.32 miles (Distribution: 9.30 miles, Transmission: 0.02 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Barlow Water System

System Summary for Kevil Water Department

PWSID	KY0040223	Treats Water	Yes, 1 plant with total capacity of 0.360 MGD.
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	Yes, 2 sources.
Employees	2	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$11.23 per 4,000 gallons.	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$13.48 per 4,000 gallons.	Total Connections	604
Residential Customers	585	Total Produced (MG)	34.680
Commercial Customers	17	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	34.670
Industrial Customers	3	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	0%
Total Distribution System Line Length = 21.81 miles (Distribution: 21.67 miles, Transmission: 0.14 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Kevil Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21007024	Kevil - Apperson Road Water Main Extension	3-5 Years	Not Funded	$250,000	Ballard	24	3
WX21007018	Kevil Water Dept.-New Water Tank	3-5 Years	Not Funded	$600,000	Ballard		
WX21007026	Kevil - New Liberty Church Road Water Main Extension	3-5 Years	Not Funded	$320,000	Ballard		
WX21007025	Kevil - New US Hwy 60 and County Line Road Water Main Extension	3-5 Years	Not Funded	$205,000	Ballard		

System Summary for LaCenter Municipal Water Company

PWSID	KY0040228	Treats Water	Yes, 1 plant with total capacity of 0.300 MGD.
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	Yes, 2 sources.
Employees	4	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$27.63 per 4,000 gallons.	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$27.63 per 4,000 gallons.	Total Connections	465
Residential Customers	389	Total Produced (MG)	34.265
Commercial Customers	75	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	14.315
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	58%
Total Distribution System Line Length = 12.19 miles (Distribution: 12.00 miles, Transmission: 0.19 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for LaCenter Municipal Water Company

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21007019	LaCenter Municipal Water-Ac Line Replacement Phase I	3-5 Years	Not Funded	$200,000	Ballard	16	2
WX21007002	La Center Municipal Water- AC Line Replacement Phase II	3-5 Years	Not Funded	$250,000	Ballard		
WX21007005	La Center Municipal Water- AC Line Replacement Phase III	3-5 Years	Not Funded	$250,000	Ballard		
WX21007023	LaCenter - Demolition of Water Tank	3-5 Years	Not Funded	$200,000	Ballard		

System Summary for Lovelaceville Water Company

PWSID	KY0040259	Treats Water	Yes, 1 plant with total capacity of 0.150 MGD.
System Type	Community	Surface Source	No
Owner Type	Investor-Owned (Private For-Profit)	Groundwater Source	Yes, 2 sources.
Employees	1	Wholesale Purchaser	No
Non-Municipal Cost	$26.40 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	53
Residential Customers	53	Total Produced (MG)	3.089
Commercial Customers	-	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	1.599
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	48%
Total Distribution System Line Length = 2.28 miles (Distribution: 2.27 miles, Transmission: 0.01 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Lovelaceville Water Company

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21007001	Lovelaceville Water-Meter Replacement & WTP Upgrades	3-5 Years	Not Funded	$50,000	Ballard		

System Summary for Wickliffe Municipal Water System

PWSID	KY0040469	Treats Water	Yes, 1 plant with total capacity of 0.750 MGD.
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	Yes, 2 sources.
Employees	3	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$16.75 per 4,000 gallons.	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$16.75 per 4,000 gallons.	Total Connections	469
Residential Customers	450	Total Produced (MG)	115.824
Commercial Customers	18	Total Purchased (MG)	-
Institutional Customers	1	Total Inside Usage (MG)	106.390
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	8%
Total Distribution System Line Length = 19.14 miles (Distribution: 19.09 miles, Transmission: 0.05 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Wickliffe Municipal Water System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21007021	Wickliffe - Morning Meadows Waterline Loop	3-5 Years	Not Funded	$240,050	Ballard	9	1

Calloway County

- 2010 census population of 37,191 (18,065 households) with 68% serviceable.
- Projected 2020 population of 40,411 (change of 3,220).
- Calloway County has 273.89 miles of existing water lines.
- 4.00 miles of line extensions proposed in the next 10 years.
- 33.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $3,725,000.
- Estimated funding needs for projects from 6 to 10 years: $3,075,100.



Calloway County has a 2010 census population count of 37,191 (18,065 households) with a projected 2020 population count of 40,411 (17,019 households). Public water is currently available to approximately 68 percent of the county's households based on 2010 census counts. Over the next ten years approximately 85 serviceable households will be added through the construction of 4.00 miles of water line extensions and approximately 10,013 instances of improved service through the rehabilitation of 33.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
Center Ridge Water District	1	$660,000	-	199	-	4.00	-
City of Murray	6	$2,825,000	33	9,217	2.00	10.00	-
Dexter-Almo Heights Water District	5	$3,149,100	20	550	2.00	18.00	-
South 641 Water District	1	$100,000	32	22	-	1.00	-
Stella Trailer Park	1	$66,000	-	25	-	-	-
Totals:	**14**	**$6,800,100**	**85**	**10,013**	**4.00**	**33.00**	**-**

Community Drinking Water Systems in Calloway County

Note: Serviceability counts are for households within Calloway county only.

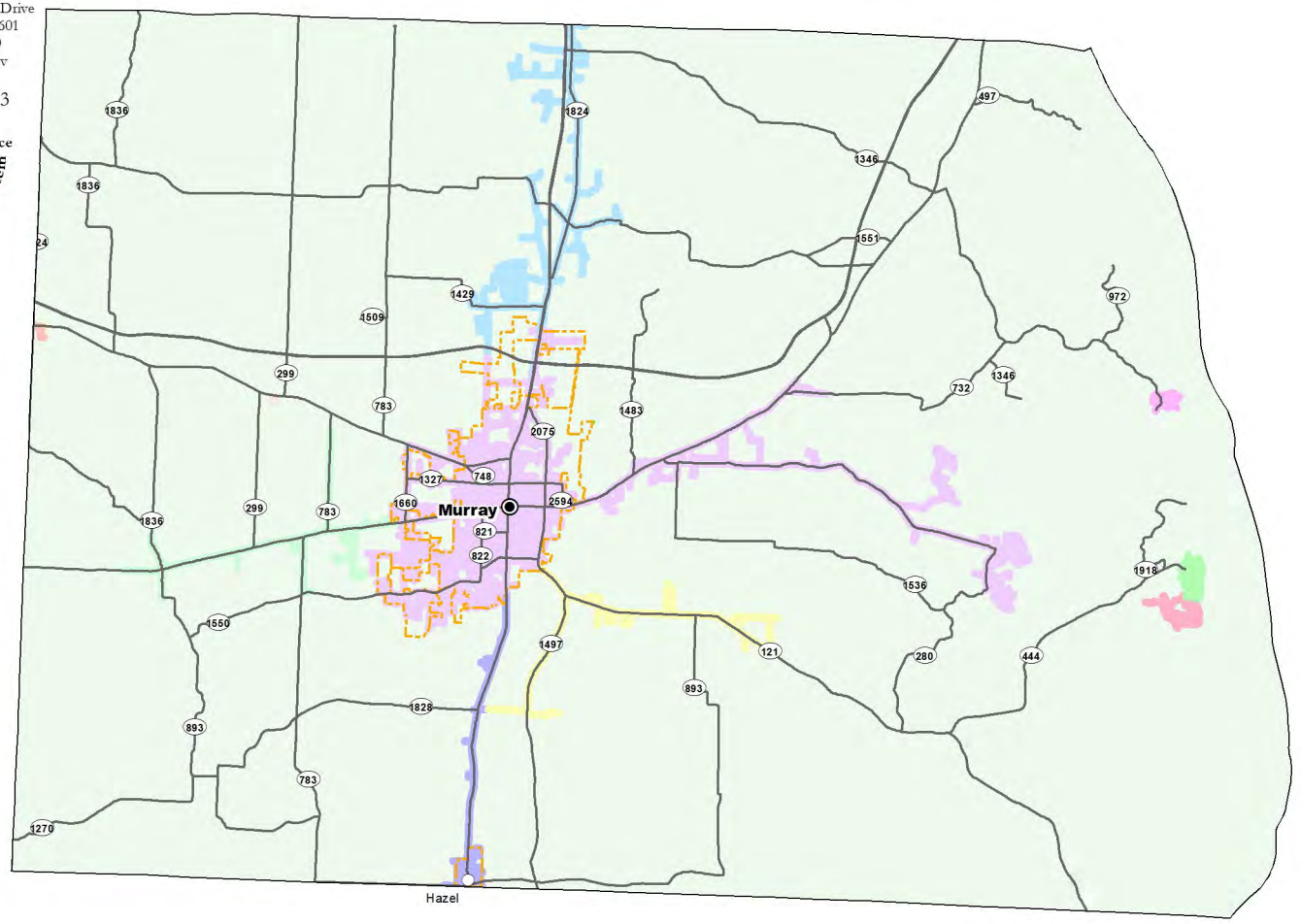
PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0180509	Center Ridge #2	Calloway	116	119
KY0180502	Center Ridge #3	Calloway	87	59
KY0180549	Center Ridge Water District	Calloway	36	54
KY0180102	Dexter Almo Heights Water District	Calloway	2,141	927
KY0180308	Murray Water District #2	Calloway	715	328
KY0180309	Murray Water District #3	Calloway	643	282
KY0180306	Murray Water System	Calloway	21,108	10,013
KY0180185	South 641 Water District	Calloway	725	357
KY0180914	Stella Trailer Park	Calloway	44	22
KY0420084	Graves County Water District (Consumers)	Graves	61	29
		Totals:	25,676	12,190

WATER SERVICE AREAS
CALLOWAY COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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January, 2013



WATER SERVICE BY OWNER

- CENTER RIDGE #2
- CENTER RIDGE #3
- CENTER RIDGE WATER DISTRICT
- DEXTER ALMO HEIGHTS WATER DISTRICT
- GRAVES COUNTY WATER DISTRICT (CONSUMERS)
- MURRAY WATER DISTRICT #2
- MURRAY WATER DISTRICT #3
- MURRAY WATER SYSTEM
- SOUTH 641 WATER DISTRICT
- STELLA TRAILER PARK

System Summary for Center Ridge #2

PWSID	KY0180509	Treats Water	Yes, 1 plant with total capacity of 0.101 MGD.
System Type	Community	Surface Source	No
Owner Type	Investor-Owned (Private For-Profit)	Groundwater Source	Yes, 2 sources.
Employees	-	Wholesale Purchaser	No
Non-Municipal Cost	$22.29 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	128
Residential Customers	128	Total Produced (MG)	3.060
Commercial Customers	-	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	2.550
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	17%
Total Distribution System Line Length = 5.54 miles (Distribution: 5.53 miles, Transmission: 0.01 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Center Ridge #2

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21035001	Center Ridge Water District #2 & #3 System Improvements.	3-5 Years	Not Funded	$660,000	Calloway	27	4

System Summary for Center Ridge #3

PWSID	KY0180502	Treats Water	Yes, 1 plant with total capacity of 0.101 MGD.
System Type	Community	Surface Source	No
Owner Type	Investor-Owned (Private For-Profit)	Groundwater Source	Yes, 2 sources.
Employees	-	Wholesale Purchaser	No
Non-Municipal Cost	$22.29 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	No
Outside Mun. Cost	-	Total Connections	72
Residential Customers	72	Total Produced (MG)	2.551
Commercial Customers	-	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	2.060
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	19%
Total Distribution System Line Length = 4.36 miles (Distribution: 4.33 miles, Transmission: 0.04 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Center Ridge #3

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21035001	Center Ridge Water District #2 & #3 System Improvements.	3-5 Years	Not Funded	$660,000	Calloway	27	4

System Summary for Center Ridge Water District

PWSID	KY0180549	Treats Water	Yes, 1 plant with total capacity of 0.050 MGD.
System Type	Community	Surface Source	No
Owner Type	Investor-Owned (Private For-Profit)	Groundwater Source	Yes, 1 source.
Employees	-	Wholesale Purchaser	No
Non-Municipal Cost	$22.29 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	94
Residential Customers	94	Total Produced (MG)	3.060
Commercial Customers	-	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	2.652
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	13%
Total Distribution System Line Length = 2.17 miles (Distribution: 2.13 miles, Transmission: 0.04 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Center Ridge Water District

System Summary for Dexter Almo Heights Water District

PWSID	KY0180102	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	4	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$19.97 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	No
Outside Mun. Cost	-	Total Connections	780
Residential Customers	755	Total Produced (MG)	-
Commercial Customers	25	Total Purchased (MG)	45.539
Institutional Customers	-	Total Inside Usage (MG)	44.810
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	2%

Total Distribution System Line Length = 34.65 miles (Distribution: 34.50 miles, Transmission: 0.15 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Dexter Almo Heights Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21035031	Dexter-Almo Heights Water District- Replace Asbestos Cement Line	6-10 Years	Not Funded	$2,375,100	Calloway		
WX21035035	Dexter-Almo Heights- Hwy 464 extension from Hopkins Road	3-5 Years	Not Funded	$300,000	Calloway		
WX21035005	Dexter-Almo Heights- Stonecrop Road Extension	3-5 Years	Not Funded	$210,000	Calloway		
WX21035030	Dexter-Almo Heights Water District- Boggess Drive Loop	3-5 Years	Not Funded	$180,000	Calloway		
WX21035034	Dexter-Almo Heights- Hwy 464 extension from Hwy 641	3-5 Years	Not Funded	$84,000	Calloway		

System Summary for Murray Water District #2

PWSID	KY0180308	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	-	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$15.70 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	No
Outside Mun. Cost	-	Total Connections	271
Residential Customers	271	Total Produced (MG)	-
Commercial Customers	-	Total Purchased (MG)	21.126
Institutional Customers	-	Total Inside Usage (MG)	16.745
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	21%

Total Distribution System Line Length = 14.89 miles (Distribution: 14.89 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Murray Water District #2

System Summary for Murray Water District #3

PWSID	KY0180309	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	2	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$16.61 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	No
Outside Mun. Cost	-	Total Connections	321
Residential Customers	302	Total Produced (MG)	-
Commercial Customers	9	Total Purchased (MG)	19.649
Institutional Customers	-	Total Inside Usage (MG)	19.114
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	3%
Total Distribution System Line Length = 14.25 miles (Distribution: 14.25 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Murray Water District #3

System Summary for Murray Water System

PWSID	KY0180306	Treats Water	Yes, 1 plant with total capacity of 7.000 MGD.
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	Yes, 6 sources.
Employees	16	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	Yes, to 4 purchasers.
Inside Mun. Cost	$10.78 per 4,000 gallons.	Storage Capacity	Yes, 3 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	$19.94 per 4,000 gallons.	Total Connections	9,090
Residential Customers	7,719	Total Produced (MG)	1,500.000
Commercial Customers	-	Total Purchased (MG)	-
Institutional Customers	1,355	Total Inside Usage (MG)	1,277.425
Industrial Customers	12	Total Wholesale Sold (MG)	107.484
Wholesale Customers	4	Estimated Pct. Water Loss	8%
Total Distribution System Line Length = 184.77 miles (Distribution: 183.79 miles, Transmission: 0.97 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Murray Water System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21035008	City of Murray- System Improvements	3-5 Years	Not Funded	$315,000	Calloway	10	1
WX21035027	Murray - SouthWest Water Main Extension	3-5 Years	Not Funded	$1,200,000	Calloway	12	3
WX21035033	City of Murray- Rob Mason Rd. Loop	6-10 Years	Not Funded	$700,000	Calloway		
WX21035032	City of Murray- Knight Road Looping Project	3-5 Years	Not Funded	$281,000	Calloway		
WX21035003	City of Murray- New Raw Well Source	0-2 Years	Partially Funded	$277,000	Calloway		
WX21035007	City of Murray- Post Oak Drive Loop	3-5 Years	Not Funded	$52,000	Calloway		

System Summary for South 641 Water District

PWSID	KY0180185	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	3	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$31.10 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	420
Residential Customers	365	Total Produced (MG)	-
Commercial Customers	55	Total Purchased (MG)	21.170
Institutional Customers	-	Total Inside Usage (MG)	18.591
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	12%

Total Distribution System Line Length = 12.60 miles (Distribution: 12.60 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for South 641 Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21035026	South 641 Water District-Water Line Replacement & Isolation Valves Installation	3-5 Years	Not Funded	$100,000	Calloway	31	5

System Summary for Stella Trailer Park

PWSID	KY0180914	Treats Water	Yes, 1 plant with total capacity of 0.036 MGD.
System Type	Community	Surface Source	No
Owner Type	Investor-Owned (Private For-Profit)	Groundwater Source	Yes, 1 source.
Employees	1	Wholesale Purchaser	No
Non-Municipal Cost	$25.00 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	30
Residential Customers	30	Total Produced (MG)	1.800
Commercial Customers	-	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	1.500
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	17%
Total Distribution System Line Length = 0.36 miles (Distribution: 0.36 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Stella Trailer Park

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21035002	Stella Trailer Park-Line Replacement and Metering	3-5 Years	Not Funded	$66,000	Calloway		

Carlisle County

- 2010 census population of 5,104 (2,441 households) with 39% serviceable.
- Projected 2020 population of 4,947 (change of -157).
- Carlisle County has 37.15 miles of existing water lines.
- 13.00 miles of line extensions proposed in the next 10 years.
- 61.00 miles of line rehabilitation proposed in the next 10 years.
- 2.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $8,316,430.
- Estimated funding needs for projects from 6 to 10 years: $3,573,548.



Carlisle County has a 2010 census population count of 5,104 (2,441 households) with a projected 2020 population count of 4,947 (2,093 households). Public water is currently available to approximately 39 percent of the county's households based on 2010 census counts. Over the next ten years approximately 186 serviceable households will be added through the construction of 13.00 miles of water line extensions and approximately 1,925 instances of improved service through the rehabilitation of 61.00 miles of existing water lines and other appurtenances. 2.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Arlington	6	$3,342,972	-	737	-	14.00	2.00
City of Bardwell	7	$2,827,006	30	749	-	33.00	-
Cunningham Water District	3	$2,920,000	137	153	10.00	5.00	-
Milburn Water District	4	$2,800,000	19	286	3.00	9.00	-
Totals:	**20**	**$11,889,978**	**186**	**1,925**	**13.00**	**61.00**	**2.00**

Community Drinking Water Systems in Carlisle County

Note: Serviceability counts are for households within Carlisle county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0200009	Arlington Water Department	Carlisle	387	197
KY0200018	Bardwell City Utilities	Carlisle	796	430
KY0200095	Cunningham Water District	Carlisle	306	147
KY0200284	Milburn Water District	Carlisle	311	144
KY0420027	Graves County Water District (Fancy Farm)	Graves	85	33
		Totals:	1,885	951

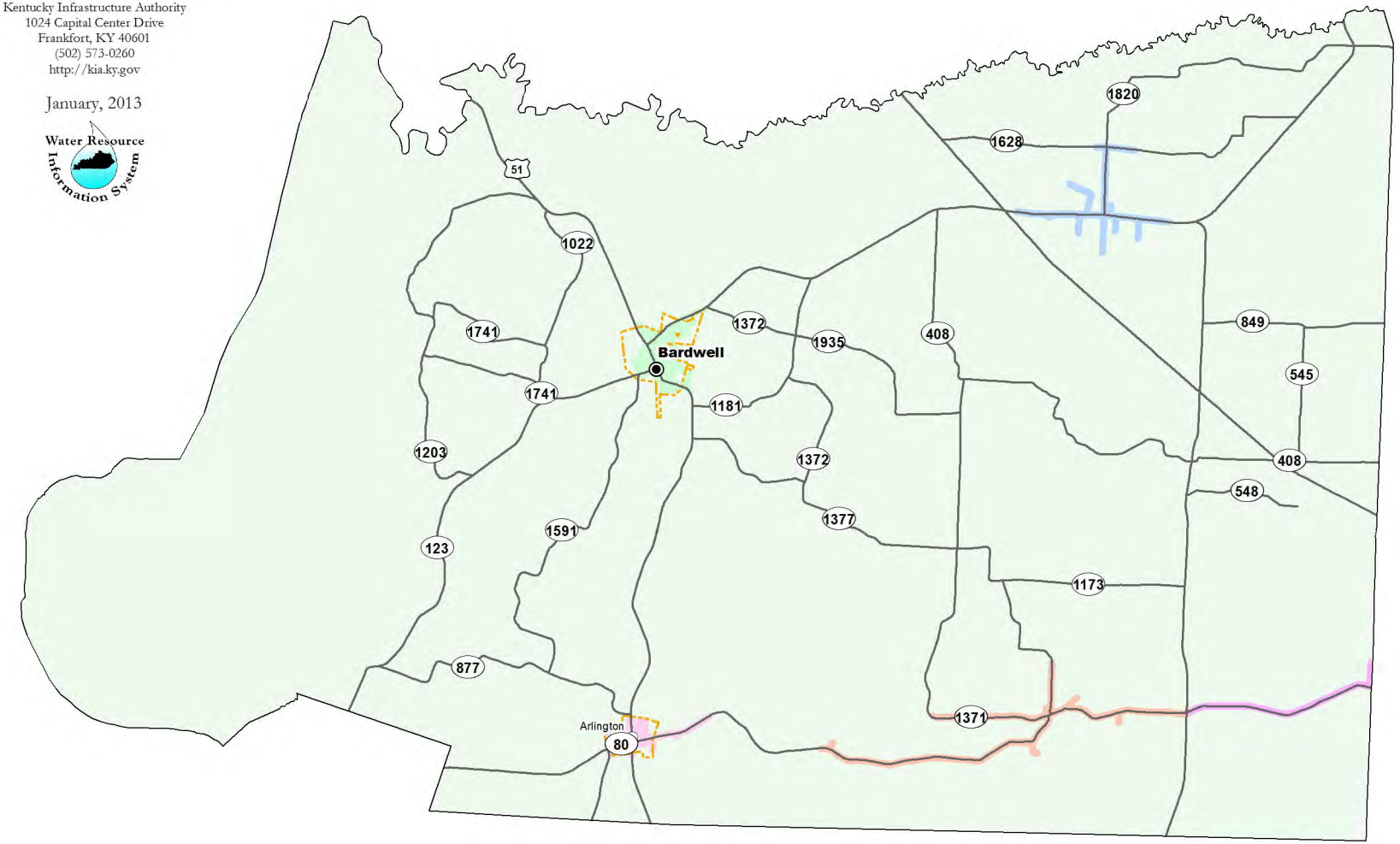
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Kentucky

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Kentucky Infrastructure Authority

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January, 2013

Water Resource Information System



System Summary for Arlington Water Department

PWSID	KY0200009	Treats Water	Yes, 1 plant with total capacity of 0.288 MGD.
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	Yes, 2 sources.
Employees	3	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$19.27 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	204
Residential Customers	185	Total Produced (MG)	10.560
Commercial Customers	19	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	9.350
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	11%

Total Distribution System Line Length = 4.96 miles (Distribution: 4.92 miles, Transmission: 0.04 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Arlington Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21039031	City of Arlington- WTP and Wells Relocation	3-5 Years	Not Funded	$600,000	Carlisle	23	3
WX21039028	City of Arlington - Cast Iron Water Main Replacement	3-5 Years	Not Funded	$2,251,000	Carlisle		
WX21039011	City of Arlington-Arlington to Berkley Extension	6-10 Years	Not Funded	$344,604	Carlisle		
WX21039001	City of Arlington-Extension to Milburn	3-5 Years	Not Funded	$56,368	Carlisle		
WX21039030	City of Arlington - WTP Generator	3-5 Years	Not Funded	$51,000	Carlisle		
WX21039032	City of Arlington- Water Tank Mixing System	3-5 Years	Not Funded	$40,000	Carlisle		

System Summary for Bardwell City Utilities

PWSID	KY0200018	Treats Water	Yes, 1 plant with total capacity of 0.504 MGD.
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	Yes, 2 sources.
Employees	7	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$18.80 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	423
Residential Customers	354	Total Produced (MG)	28.150
Commercial Customers	70	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	18.360
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	35%

Total Distribution System Line Length = 13.42 miles (Distribution: 12.54 miles, Transmission: 0.89 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Bardwell City Utilities

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21039021	City of Bardwell-Well Relocation	3-5 Years	Not Funded	$300,000	Carlisle	17	2
WX21039003	City of Bardwell-Extension to Cunningham	3-5 Years	Not Funded	$208,780	Carlisle	33	5
WX21039024	City of Bardwell - Carlisle County High School Connection	3-5 Years	Not Funded	$1,400,000	Carlisle		
WX21039010	City of Bardwell-Southwest Bardwell Line Extension	3-5 Years	Not Funded	$357,682	Carlisle		
WX21039020	City of Bardwell-Cast Iron Main Replacement	3-5 Years	Not Funded	$340,000	Carlisle		
WX21039002	City of Bardwell-Extension to Arlington	6-10 Years	Not Funded	$138,944	Carlisle		
WX21039029	City of Bardwell - WTP Generator	3-5 Years	Not Funded	$81,600	Carlisle		

System Summary for Cunningham Water District

PWSID	KY0200095	Treats Water	Yes, 1 plant with total capacity of 0.150 MGD.
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	Yes, 2 sources.
Employees	1	Wholesale Purchaser	No
Non-Municipal Cost	$31.28 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	153
Residential Customers	141	Total Produced (MG)	9.005
Commercial Customers	10	Total Purchased (MG)	-
Institutional Customers	2	Total Inside Usage (MG)	7.993
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	11%
Total Distribution System Line Length = 6.20 miles (Distribution: 6.16 miles, Transmission: 0.04 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Cunningham Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21039005	Cunningham-Replace AC Mains	3-5 Years	Not Funded	$830,000	Carlisle	28	4
WX21039008	Cunningham WD-Northeast Carlisle County Loop	6-10 Years	Not Funded	$1,590,000	Carlisle		
WX21039022	Cunningham Water District-Summers and Pat Sims Roads Loop	3-5 Years	Not Funded	$500,000	Carlisle		

System Summary for Milburn Water District

PWSID	KY0200284	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	1	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$34.20 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	141
Residential Customers	144	Total Produced (MG)	-
Commercial Customers	3	Total Purchased (MG)	7.269
Institutional Customers	-	Total Inside Usage (MG)	6.095
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	16%
Total Distribution System Line Length = 9.34 miles (Distribution: 9.34 miles, Transmission: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Milburn Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21039025	Milburn Water District - Water Tower	3-5 Years	Not Funded	$355,000	Carlisle	8	1
WX21039033	AC Line Rehabilitation	6-10 Years	Not Funded	$1,500,000	Carlisle		
WX21039026	Milburn Water District - Loop Dead End Line On KY 80	3-5 Years	Not Funded	$595,000	Carlisle		
WX21039027	Milburn Water District - Loop Dead End Lines On KY 1377	3-5 Years	Not Funded	$350,000	Carlisle		

Fulton County

- 2010 census population of 6,813 (3,372 households) with 88% serviceable.
- Projected 2020 population of 6,223 (change of -590).
- Fulton County has 137.09 miles of existing water lines.
- There are no line extensions proposed in the next 10 years.
- 2.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $2,146,523.
- There are no projects planned from 6 to 10 years.



Fulton County has a 2010 census population count of 6,813 (3,372 households) with a projected 2020 population count of 6,223 (2,728 households). Public water is currently available to approximately 88 percent of the county's households based on 2010 census counts. Over the next ten years approximately 2,998 instances of improved service through the rehabilitation of 2.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Fulton	2	$1,086,000	-	1,640	-	2.00	-
City of Hickman	3	$1,060,523	-	1,358	-	-	-
Totals:	**5**	**$2,146,523**	**-**	**2,998**	**-**	**2.00**	**-**

Community Drinking Water Systems in Fulton County

Note: Serviceability counts are for households within Fulton county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0380149	Fulton Municipal Water System	Fulton	3,089	1,657
KY0380193	Hickman Water Department	Fulton	2,867	1,298
		Totals:	5,956	2,955

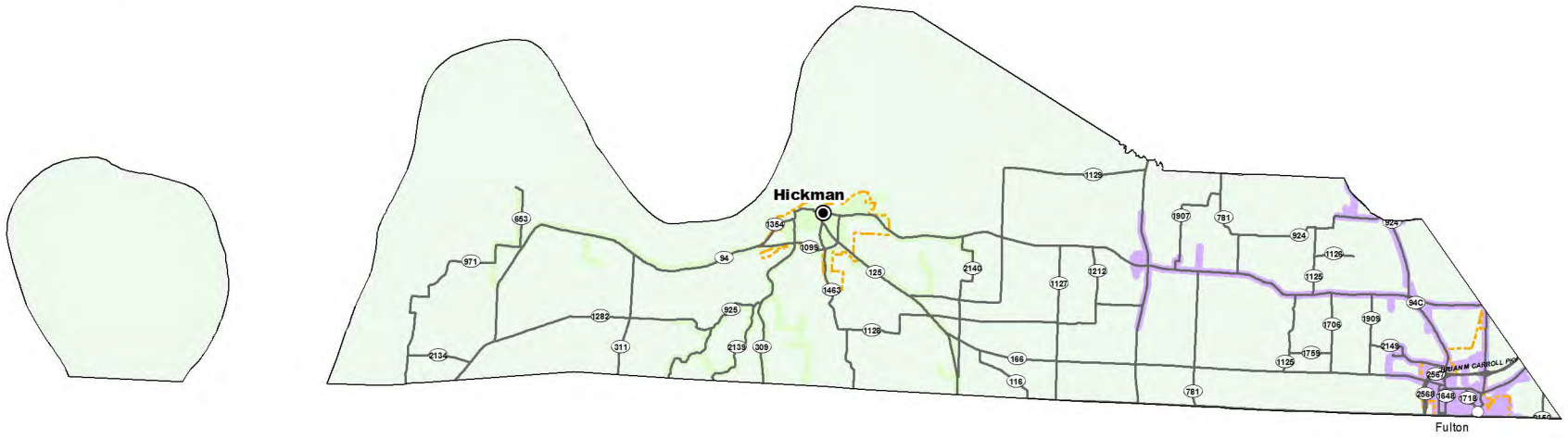
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FULTON COUNTY
Kentucky

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Kentucky Infrastructure Authority

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January, 2013

Water Resource Information System



System Summary for Fulton Municipal Water System

PWSID	KY0380149	Treats Water	Yes, 1 plant with total capacity of 0.950 MGD.
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	Yes, 2 sources.
Employees	5	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$19.45 per 4,000 gallons.	Storage Capacity	Yes, 4 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	$41.14 per 4,000 gallons.	Total Connections	1,762
Residential Customers	1,626	Total Produced (MG)	215.500
Commercial Customers	130	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	177.125
Industrial Customers	6	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	18%
Total Distribution System Line Length = 77.76 miles (Distribution: 77.70 miles, Transmission: 0.06 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Fulton Municipal Water System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21075007	Fulton Municipal Water System-Line Replacement	0-2 Years	Partially Funded	$700,000	Fulton	11	4
WX21075002	Fulton Municipal Water-Demolition of Old Clear Well & Degasifier	3-5 Years	Not Funded	$386,000	Fulton	18	3
WX21075003	Fulton Municipal to South Graves Interconnect	6-10 Years	Not Funded	$65,572	Fulton		

System Summary for Hickman Water Department

PWSID	KY0380193	Treats Water	Yes, 1 plant with total capacity of 2.000 MGD.
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	Yes, 3 sources.
Employees	2	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$21.00 per 4,000 gallons.	Storage Capacity	Yes, 4 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	$31.00 per 4,000 gallons.	Total Connections	1,320
Residential Customers	1,133	Total Produced (MG)	279.970
Commercial Customers	186	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	250.472
Industrial Customers	1	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	11%
Total Distribution System Line Length = 69.36 miles (Distribution: 69.18 miles, Transmission: 0.18 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Hickman Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21075005	Hickman Water Department-WTP Rehab	0-2 Years	Partially Funded	$900,523	Fulton	5	2
WX21075015	City of Hickman- New Water Tank	3-5 Years	Not Funded	$150,000	Fulton	29	1
WX21075016	City of Hickman- Inspection of 2 Hwy 94 Water Tanks	3-5 Years	Not Funded	$10,000	Fulton		

Graves County

- 2010 census population of 37,121 (16,777 households) with 68% serviceable.
- Projected 2020 population of 37,630 (change of 509).
- Graves County has 397.74 miles of existing water lines.
- There are no line extensions proposed in the next 10 years.
- 56.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $23,845,261.
- Estimated funding needs for projects from 6 to 10 years: $382,616.



Graves County has a 2010 census population count of 37,121 (16,777 households) with a projected 2020 population count of 37,630 (15,459 households). Public water is currently available to approximately 68 percent of the county's households based on 2010 census counts. Over the next ten years approximately 93 serviceable households will be added through the construction of 0.00 miles of water line extensions and approximately 6,587 instances of improved service through the rehabilitation of 56.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Fulton	1	$65,572	-	5	-	-	-
City of Wingo	1	$300,000	-	313	-	-	-
Graves County Water District	7	$1,587,564	19	156	-	8.00	-
Hickory Water District	10	$2,423,000	74	243	-	17.00	-
Mayfield Electric & Water Systems	23	$19,008,044	-	5,487	-	24.00	-
Sedalia Water District	2	$510,000	-	272	-	3.00	-
Symsonia Water District	1	$333,697	-	111	-	4.00	-
Totals:	**45**	**$24,227,877**	**93**	**6,587**	**-**	**56.00**	**-**

Community Drinking Water Systems in Graves County

Note: Serviceability counts are for households within Graves county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0420084	Graves County Water District (Consumers)	Graves	4,821	2,104
KY0420027	Graves County Water District (Fancy Farm)	Graves	1,131	495
KY0420172	Graves County Water District (Hardeman)	Graves	873	405
KY0420194	Graves County Water District (Hickory)	Graves	3,303	1,503
KY0420405	Graves County Water District (South Graves)	Graves	2,327	1,057
KY0420274	Mayfield Electric & Water System	Graves	10,710	5,015
KY0420534	Sedalia Water District	Graves	281	129
KY0420423	Symsonia Water District	Graves	701	361
KY0420475	Wingo Water & Sewer Department	Graves	709	310
KY0730533	Paducah Water Works	McCracken	200	86
		Totals:	25,056	11,465

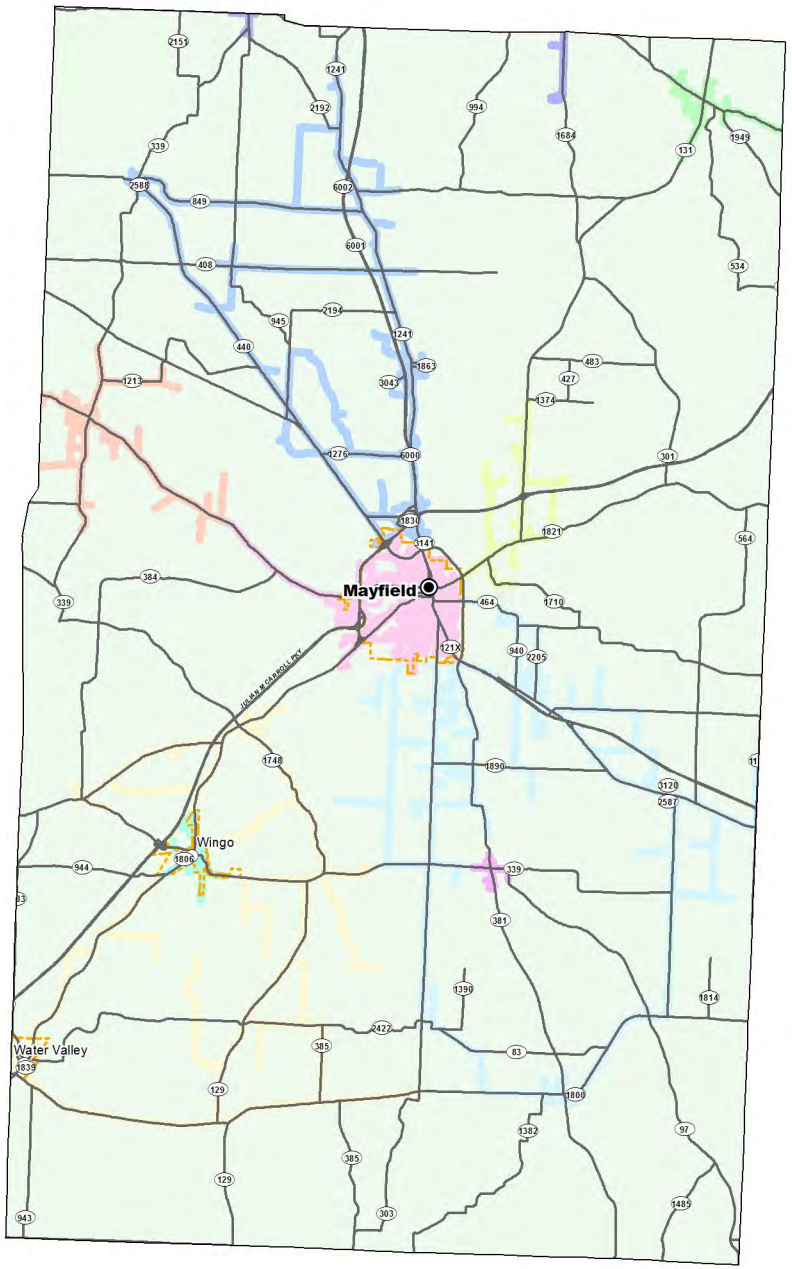
WATER SERVICE AREAS
GRAVES COUNTY
Kentucky

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Kentucky Infrastructure Authority

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January, 2013

Water Resource Information System



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WATER SERVICE BY OWNER

- GRAVES COUNTY WATER DISTRICT (CONSUMERS)
- GRAVES COUNTY WATER DISTRICT (FANCY FARM)
- GRAVES COUNTY WATER DISTRICT (HARDEMAN)
- GRAVES COUNTY WATER DISTRICT (SOUTH GRAVES)
- HICKORY WATER DISTRICT
- MAYFIELD ELECTRIC & WATER SYSTEM
- PADUCAH WATER WORKS
- SEDALIA WATER DISTRICT
- SYMSONIA WATER DISTRICT
- WINGO WATER & SEWER DEPARTMENT

System Summary for Graves County Water District (Consumers)

PWSID	KY0420084	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	1	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$24.09 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	1,739
Residential Customers	1,683	Total Produced (MG)	-
Commercial Customers	56	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	102.900
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	
Total Distribution System Line Length = 94.60 miles (Distribution: 94.46 miles, Transmission: 0.15 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Graves County Water District (Consumers)

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21083037	Graves County Water District (Consumers)-Cuba Water Tank	3-5 Years	Not Funded	$337,480	Graves		
WX21083009	Consumers- Cuba School Rd. Line Extension	3-5 Years	Not Funded	$258,686	Graves		
WX21083056	Graves County Water District (Consumers)-Scott Road Loop	3-5 Years	Not Funded	$123,398	Graves		

System Summary for Graves County Water District (Fancy Farm)

PWSID	KY0420027	Treats Water	Yes, 1 plant with total capacity of 0.432 MGD.
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	Yes, 2 sources.
Employees	1	Wholesale Purchaser	No
Non-Municipal Cost	$24.03 per 4,000 gallons.	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	418
Residential Customers	399	Total Produced (MG)	42.420
Commercial Customers	26	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	27.300
Industrial Customers	-	Total Wholesale Sold (MG)	7.269
Wholesale Customers	1	Estimated Pct. Water Loss	19%
Total Distribution System Line Length = 26.79 miles (Distribution: 26.75 miles, Transmission: 0.04 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Graves County Water District (Fancy Farm)

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21083069	Graves County Water District-KY 339 Water Main Extension/Replace	3-5 Years	Not Funded	$393,000	Graves		
WX21083042	Graves County Water (Fancy Farm)-KY339 Water Line Replacement	3-5 Years	Not Funded	$120,000	Graves		

System Summary for Graves County Water District (Hardeman)

PWSID	KY0420172	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	1	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$24.09 per 4,000 gallons.	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	391
Residential Customers	365	Total Produced (MG)	32.280
Commercial Customers	16	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	28.592
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	1	Estimated Pct. Water Loss	11%

Total Distribution System Line Length = 15.64 miles (Distribution: 14.66 miles, Transmission: 0.98 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Graves County Water District (Hardeman)

System Summary for Graves County Water District (Hickory)

PWSID	KY0420194	Treats Water	Yes, 1 plant with total capacity of 1.000 MGD.
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	Yes, 3 sources.
Employees	1	Wholesale Purchaser	No
Non-Municipal Cost	$24.03 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	1,350
Residential Customers	1,152	Total Produced (MG)	151.000
Commercial Customers	182	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	128.168
Industrial Customers	16	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	15%
Total Distribution System Line Length = 67.89 miles (Distribution: 67.72 miles, Transmission: 0.18 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Graves County Water District (Hickory)

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21083075	Hickory Water District - AC Main Replacement On Treeland	3-5 Years	Not Funded	$80,000	Graves	26	4
WX21083028	Hickory Water District-Hickory Road Extension	3-5 Years	Not Funded	$585,000	Graves		
WX21083024	Hickory Water District-Meridian Road From Hickory Road to KY-408	3-5 Years	Not Funded	$405,000	Graves		
WX21083027	Hickory Water District- KY 339 Extension to New Pathways	3-5 Years	Not Funded	$285,000	Graves		
WX21083026	Hickory Water District-KY 945 Extension to New Pathways	3-5 Years	Not Funded	$265,000	Graves		
WX21083077	Hickory Water-AC Replacement On West Plains, Southern, & Sophia	3-5 Years	Not Funded	$258,000	Graves		
WX21083035	Hickory Water District-Pottsville to KY 849	3-5 Years	Not Funded	$200,000	Graves		
WX21083036	Hickory Water District-Pottsville to KY 440	3-5 Years	Not Funded	$175,000	Graves		
WX21083076	Hickory Water-AC Replacement On Fondo, Fuma & Construction	3-5 Years	Not Funded	$95,000	Graves		
WX21083078	Hickory Water-AC Replacement On Hwy 121, Logsdon Dr. & Haven	3-5 Years	Not Funded	$75,000	Graves		

System Summary for Graves County Water District (South Graves)

PWSID	KY0420405	Treats Water	Yes, 1 plant with total capacity of 0.432 MGD.
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	Yes, 2 sources.
Employees	1	Wholesale Purchaser	No
Non-Municipal Cost	$24.09 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	646
Residential Customers	608	Total Produced (MG)	56.432
Commercial Customers	38	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	36.859
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	35%
Total Distribution System Line Length = 73.65 miles (Distribution: 73.61 miles, Transmission: 0.04 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Graves County Water District (South Graves)

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21083022	Graves County Water District (South Graves)-Interconnection	3-5 Years	Not Funded	$275,000	Graves		
WX21083019	Graves County Water District (South Graves)-Boyd Road/Wray Road	3-5 Years	Not Funded	$80,000	Graves		

System Summary for Mayfield Electric & Water System

PWSID	KY0420274	Treats Water	Yes, 1 plant with total capacity of 2.880 MGD.
System Type	Community	Surface Source	No
Owner Type	Municipal Utility Board or Commission	Groundwater Source	Yes, 3 sources.
Employees	40	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	$11.51 per 4,000 gallons.	Storage Capacity	Yes, 4 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	$17.27 per 4,000 gallons.	Total Connections	4,967
Residential Customers	4,285	Total Produced (MG)	726.252
Commercial Customers	680	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	655.000
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	2	Estimated Pct. Water Loss	10%

Total Distribution System Line Length = 96.77 miles (Distribution: 96.65 miles, Transmission: 0.12 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Mayfield Electric & Water System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21083051	Mayfield Electric & Water - Fuller Tank Rehab	3-5 Years	Not Funded	$250,000	Graves	15	2
WX21083070	Mayfield Electric & Water- South Bypass Transmission Improv.	3-5 Years	Not Funded	$2,829,000	Graves		
WX21083063	Mayfield Electric & Water- Mayfield WTP Rehabilitation	3-5 Years	Not Funded	$2,575,000	Graves		
WX21083072	Mayfield Water- KY-121 Truck Route Transmission Improv. Phase I	3-5 Years	Not Funded	$2,378,000	Graves		
WX21083047	Mayfield Electric & Water - WTP Controls Upgrade & Telemetry	3-5 Years	Not Funded	$2,100,000	Graves		
WX21083073	Mayfield Water- KY-121 Truck Route Transmission Improv. Phase II	3-5 Years	Not Funded	$1,283,000	Graves		
WX21083074	Mayfield Electric & Water- Kess Street Transmission Improvements	3-5 Years	Not Funded	$1,203,000	Graves		
WX21083059	Mayfield Electric & Water-Mayfield West Tranmission Improvements	3-5 Years	Not Funded	$1,135,000	Graves		
WX21083058	Mayfield Electric & Water- Willow Drive Main Replacement	3-5 Years	Not Funded	$849,000	Graves		
WX21083068	Mayfield Electric & Water- South 10th St. Transmission Improv.	3-5 Years	Not Funded	$758,000	Graves		
WX21083071	Mayfield Electric & Water- Farthing Street Transmission Improvements	3-5 Years	Not Funded	$707,000	Graves		
WX21083050	Mayfield Electric & Water - Replace Water Main (Macedonia St)	3-5 Years	Not Funded	$585,000	Graves		
WX21083046	Mayfield Electric & Water - Repaint 12th Street Water Tank	3-5 Years	Not Funded	$350,000	Graves		
WX21083064	Mayfield Electric & Water- Hwy 303 Main Replacement	3-5 Years	Not Funded	$331,000	Graves		
WX21083011	Mayfield Line Extension KY 1748	6-10 Years	Not Funded	$317,044	Graves		
WX21083045	Mayfield Electric & Water - Repaint Pine Lake Water Tank	3-5 Years	Not Funded	$300,000	Graves		
WX21083049	Mayfield Electric & Water - Replace Water Main (Hwy 303)	3-5 Years	Not Funded	$300,000	Graves		
WX21083062	Mayfield Electric & Water-WTP Clearwell Rehabilitation	3-5 Years	Not Funded	$250,000	Graves		

System Summary for Sedalia Water District

PWSID	KY0420534	Treats Water	Yes, 1 plant with total capacity of 0.130 MGD.
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	Yes, 2 sources.
Employees	1	Wholesale Purchaser	No
Non-Municipal Cost	$22.98 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	136
Residential Customers	126	Total Produced (MG)	8.884
Commercial Customers	6	Total Purchased (MG)	-
Institutional Customers	4	Total Inside Usage (MG)	7.452
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	16%
Total Distribution System Line Length = 3.03 miles (Distribution: 3.01 miles, Transmission: 0.02 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Sedalia Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21083020	Sedalia Water-Hydrants, Sample Stations, Land Acquisitions	3-5 Years	Not Funded	$10,000	Graves	30	5
WX21083012	Sedalia Water-AC Line Replacement	3-5 Years	Not Funded	$500,000	Graves		

System Summary for Symsonia Water District

PWSID	KY0420423	Treats Water	Yes, 1 plant with total capacity of 0.150 MGD.
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	Yes, 2 sources.
Employees	5	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$23.11 per 4,000 gallons.	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	319
Residential Customers	301	Total Produced (MG)	18.360
Commercial Customers	17	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	16.973
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	1	Estimated Pct. Water Loss	8%
Total Distribution System Line Length = 9.94 miles (Distribution: 9.90 miles, Transmission: 0.03 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Symsonia Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21083015	Symsonia Extension KY 131	3-5 Years	Not Funded	$333,697	Graves	19	1

System Summary for Wingo Water & Sewer Department

PWSID	KY0420475	Treats Water	Yes, 1 plant with total capacity of 0.360 MGD.
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	Yes, 2 sources.
Employees	3	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$24.40 per 4,000 gallons.	Storage Capacity	Yes, 2 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$24.40 per 4,000 gallons.	Total Connections	302
Residential Customers	281	Total Produced (MG)	18.061
Commercial Customers	21	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	15.206
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	16%
Total Distribution System Line Length = 9.06 miles (Distribution: 8.83 miles, Transmission: 0.23 miles).			

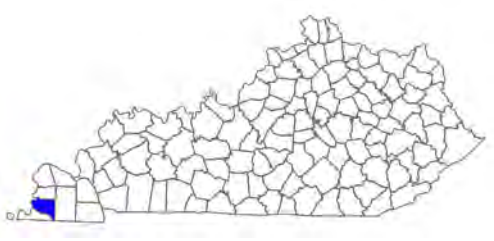
MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Wingo Water & Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21083013	City of Wingo- Replace Water Tank	3-5 Years	Not Funded	$300,000	Graves	22	3

Hickman County

- 2010 census population of 4,902 (2,342 households) with 39% serviceable.
- Projected 2020 population of 4,625 (change of -277).
- Hickman County has 29.78 miles of existing water lines.
- There are no line extensions proposed in the next 10 years.
- 3.00 miles of line rehabilitation proposed in the next 10 years.
- There are no transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $440,000.
- Estimated funding needs for projects from 6 to 10 years: $410,176.



Hickman County has a 2010 census population count of 4,902 (2,342 households) with a projected 2020 population count of 4,625 (1,938 households). Public water is currently available to approximately 39 percent of the county's households based on 2010 census counts. Over the next ten years approximately 217 instances of improved service through the rehabilitation of 3.00 miles of existing water lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Arlington	1	$344,604	-	8	-	2.00	-
City of Columbus	2	$440,000	-	200	-	-	-
City of Fulton	1	$65,572	-	9	-	1.00	-
Totals:	**4**	**$850,176**	**-**	**217**	**-**	**3.00**	**-**

Community Drinking Water Systems in Hickman County

Note: Serviceability counts are for households within Hickman county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0530083	Columbus Water Works	Hickman	193	96
KY0530077	Utilities Inc.	Hickman	1,513	707
KY0380149	Fulton Municipal Water System	Fulton	188	103
		Totals:	1,894	906

WATER SERVICE AREAS
HICKMAN COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

Kentucky Infrastructure Authority
1024 Capital Center Drive
Frankfort, KY 40601
(502) 573-0260
http://kia.ky.gov

January, 2013



WATER SERVICE BY OWNER

- COLUMBUS WATER WORKS
- FULTON MUNICIPAL WATER SYSTEM
- WATER SERVICE CORPORATION OF KENTUCKY

System Summary for Columbus Water Works

PWSID	KY0530083	Treats Water	Yes, 1 plant with total capacity of 0.360 MGD.
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	Yes, 2 sources.
Employees	2	Wholesale Purchaser	No
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$29.60 per 4,000 gallons.	Storage Capacity	Yes, 1 tank with total capacity of 0.000 MG.
Outside Mun. Cost	$29.60 per 4,000 gallons.	Total Connections	99
Residential Customers	99	Total Produced (MG)	9.520
Commercial Customers	2	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	8.433
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	11%
Total Distribution System Line Length = 5.38 miles (Distribution: 4.31 miles, Transmission: 1.07 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Columbus Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21105009	Columbus Water Works - Upgrades to WTP and New Clearwell	3-5 Years	Not Funded	$400,000	Hickman	7	1
WX21105010	Columbus Water Works - Water Tank Maintenance	3-5 Years	Not Funded	$40,000	Hickman	14	2

System Summary for Utilities Inc.

PWSID	KY0530077	Treats Water	Yes, 1 plant with total capacity of 0.550 MGD.
System Type	Community	Surface Source	No
Owner Type	Investor-Owned (Private For-Profit)	Groundwater Source	Yes, 2 sources.
Employees	2	Wholesale Purchaser	No
Non-Municipal Cost	$32.36 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	681
Residential Customers	597	Total Produced (MG)	44.956
Commercial Customers	84	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	36.840
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	18%
Total Distribution System Line Length = 14.63 miles (Distribution: 14.57 miles, Transmission: 0.06 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Utilities Inc.

McCracken County

- 2010 census population of 65,565 (31,079 households) with 95% serviceable.
- Projected 2020 population of 66,621 (change of 1,056).
- McCracken County has 670.05 miles of existing water lines.
- There are no line extensions proposed in the next 10 years.
- 38.00 miles of line rehabilitation proposed in the next 10 years.
- 8.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $34,901,180.
- There are no projects planned from 6 to 10 years.



McCracken County has a 2010 census population count of 65,565 (31,079 households) with a projected 2020 population count of 66,621 (29,278 households). Public water is currently available to approximately 95 percent of the county's households based on 2010 census counts. Over the next ten years approximately 111 serviceable households will be added through the construction of 0.00 miles of water line extensions and approximately 36,604 instances of improved service through the rehabilitation of 38.00 miles of existing water lines and other appurtenances. 8.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Kevil	2	$570,000	-	64	-	3.00	-
North Marshall Water District	1	$9,790,000	-	3	-	-	-
Paducah Water Works	39	$23,181,180	107	33,620	-	30.00	8.00
West McCracken County Water District	4	$1,360,000	4	2,917	-	5.00	-
Totals:	**46**	**$34,901,180**	**111**	**36,604**	**-**	**38.00**	**8.00**

Community Drinking Water Systems in McCracken County

Note: Serviceability counts are for households within McCracken county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0730533	Paducah Water Works	McCracken	57,871	27,693
KY0730454	West McCracken County Water District	McCracken	3,758	1,623
KY0040223	Kevil Water Department	Ballard	321	139
		Totals:	61,950	29,455

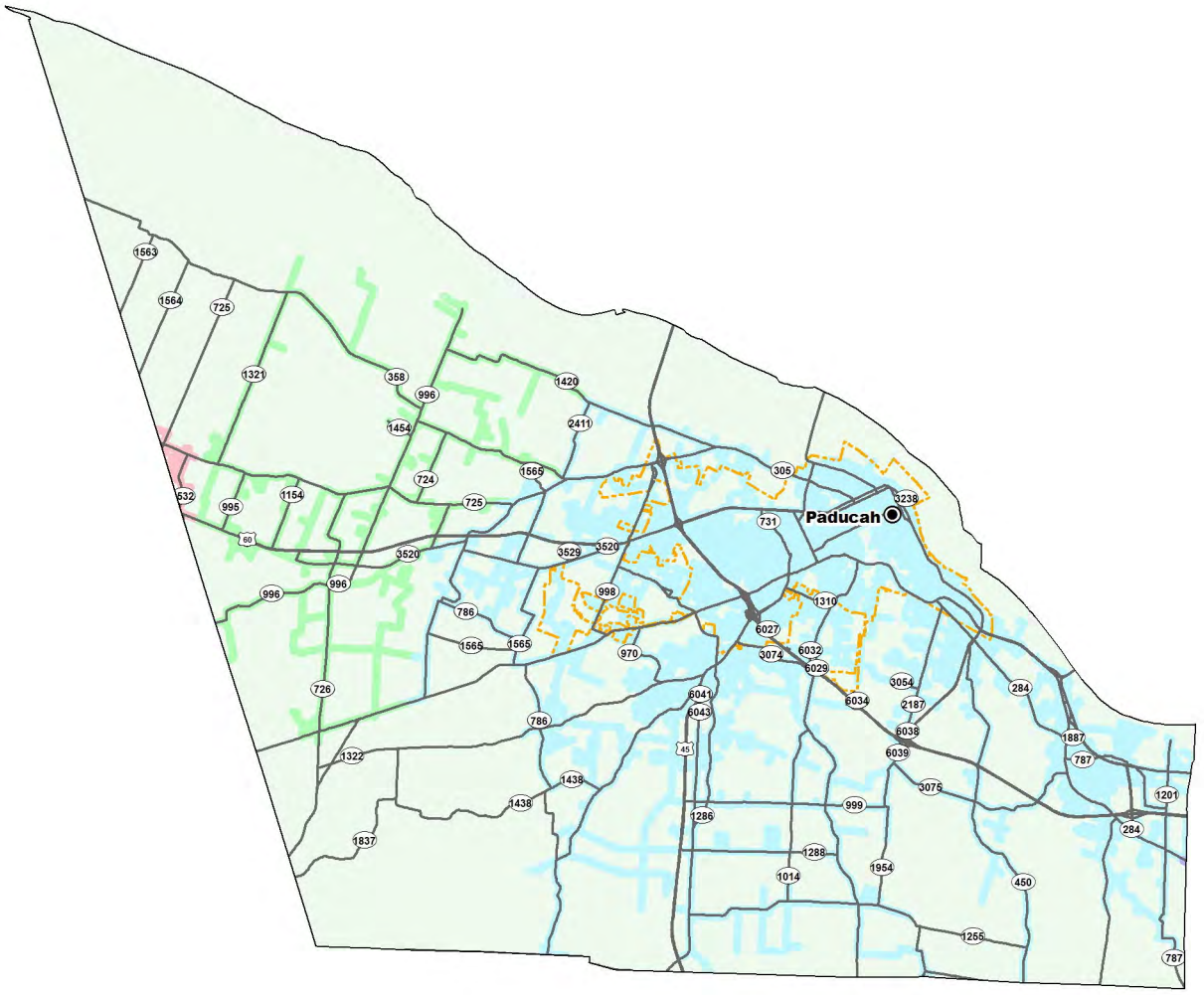
WATER SERVICE AREAS
MCCRACKEN COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

Kentucky Infrastructure Authority
1024 Capital Center Drive
Frankfort, KY 40601
(502) 573-0260
http://kia.ky.gov

January, 2013

Water Resource Information System



WATER SERVICE BY OWNER

- KEVIL WATER DEPARTMENT
- NORTH MARSHALL WATER DISTRICT
- PADUCAH WATER WORKS
- WEST MCCRACKEN COUNTY WATER DISTRICT

System Summary for Paducah Water Works

PWSID	KY0730533	Treats Water	Yes, 1 plant with total capacity of 20.000 MGD.
System Type	Community	Surface Source	Yes, 1 source.
Owner Type	Municipal Utility Board or Commission	Groundwater Source	Yes, 7 sources.
Employees	52	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	Yes, to 3 purchasers.
Inside Mun. Cost	$16.40 per 4,000 gallons.	Storage Capacity	Yes, 10 tanks with total capacity of 10.000 MG.
Outside Mun. Cost	$16.40 per 4,000 gallons.	Total Connections	26,602
Residential Customers	23,829	Total Produced (MG)	2,494.868
Commercial Customers	2,773	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	2,548.196
Industrial Customers	-	Total Wholesale Sold (MG)	172.686
Wholesale Customers	3	Estimated Pct. Water Loss	-9%

Total Distribution System Line Length = 603.14 miles (Distribution: 538.29 miles, Transmission: 64.85 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Paducah Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21145085	Paducah Water Work-24" Transmission Main Redundancy	3-5 Years	Not Funded	$4,493,000	McCracken	3	1
WX21145001	Paducah Water Works-Interconnection Project	0-2 Years	Not Funded	$250,000	McCracken	6	4
WX21145016	Paducah Water-Lovelaceville Road Extension	3-5 Years	Not Funded	$105,000	McCracken	13	3
WX21145079	Paducah Water Work-Massac Elevated Storage Tank	3-5 Years	Not Funded	$2,067,000	McCracken	25	2
WX21145043	Paducah Water-Bryan Road Extension	3-5 Years	Not Funded	$165,000	McCracken	32	5
WX21145015	Paducah Water-Hines Road, US 62, & Fisher Rd.	3-5 Years	Not Funded	$2,013,000	McCracken		
WX21145007	Paducah Water-Sunny Slope Tank Replacement	3-5 Years	Not Funded	$1,800,180	McCracken		
WX21145087	Paducah Water Works-Kentucky Ave/Brown Street Transmission Main	3-5 Years	Not Funded	$1,527,000	McCracken		
WX21145084	Paducah Water Works-US 60 West Main	3-5 Years	Not Funded	$1,379,000	McCracken		
WX21145052	Paducah Water-Husbands Road Replacement Phase I	3-5 Years	Not Funded	$885,000	McCracken		
WX21145080	Paducah Water Work-Mayfield Road	3-5 Years	Not Funded	$865,000	McCracken		
WX21145056	Paducah Water-John Puryear Drive Ext	3-5 Years	Not Funded	$603,000	McCracken		
WX21145086	Paducah Water Works-Mayfield Metropolis Road Main	3-5 Years	Not Funded	$600,000	McCracken		
WX21145077	Paducah Water-Phase V Lone Oak Replacement	3-5 Years	Not Funded	$491,000	McCracken		
WX21145053	Paducah Water-Lone Oak Rd(US 45) Replacement	3-5 Years	Not Funded	$487,000	McCracken		
WX21145088	Paducah Water Works-Bryant Ford Road	3-5 Years	Not Funded	$278,000	McCracken		
WX21145076	Paducah Water Works-North 32nd Street	3-5 Years	Not Funded	$274,000	McCracken		
WX21145039	Paducah Water-Moore Road (KY 1565) Ext.	0-2 Years	Not Funded	$207,000	McCracken		

System Summary for West McCracken County Water District

PWSID	KY0730454	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	No
Employees	4	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$21.28 per 4,000 gallons.	Wholesale Provider	Yes, to 1 purchaser.
Inside Mun. Cost	-	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	1,498
Residential Customers	1,426	Total Produced (MG)	-
Commercial Customers	70	Total Purchased (MG)	172.686
Institutional Customers	-	Total Inside Usage (MG)	137.344
Industrial Customers	1	Total Wholesale Sold (MG)	-
Wholesale Customers	1	Estimated Pct. Water Loss	20%
Total Distribution System Line Length = 84.12 miles (Distribution: 76.99 miles, Transmission: 7.12 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for West McCracken County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21145064	West McCracken Water- Main Replacement Ogden Landing Road	3-5 Years	Not Funded	$980,000	McCracken		
WX21145062	West McCracken - Alternative Power Supply	3-5 Years	Not Funded	$210,000	McCracken		
WX21145032	West McCracken Water District-Mayfield-Metropolis Extension	3-5 Years	Not Funded	$105,000	McCracken		
WX21145014	West McCracken County Water District- Tank Mixers	3-5 Years	Not Funded	$65,000	McCracken		

Marshall County

- 2010 census population of 31,448 (15,748 households) with 91% serviceable.
- Projected 2020 population of 33,023 (change of 1,575).
- Marshall County has 572.72 miles of existing water lines.
- There are no line extensions proposed in the next 10 years.
- 281.00 miles of line rehabilitation proposed in the next 10 years.
- 3.00 miles of transmission lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $31,318,180.
- Estimated funding needs for projects from 6 to 10 years: $585,000.



Marshall County has a 2010 census population count of 31,448 (15,748 households) with a projected 2020 population count of 33,023 (14,122 households). Public water is currently available to approximately 91 percent of the county's households based on 2010 census counts. Over the next ten years approximately 128 serviceable households will be added through the construction of 0.00 miles of water line extensions and approximately 13,631 instances of improved service through the rehabilitation of 281.00 miles of existing water lines and other appurtenances. 3.00 miles of transmission lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Trans Lines (miles)
			Unserved	Underserved			
City of Benton	3	$1,050,000	-	1,071	-	4.00	-
City of Calvert City	14	$19,494,292	64	6,222	-	13.00	-
Jonathan Creek Water District	4	$1,186,888	25	421	-	18.00	-
Marshall County Fiscal Court	1	$382,000	39	212	-	8.00	-
North Marshall Water District	1	$9,790,000	-	5,705	-	238.00	3.00
Totals:	**23**	**$31,903,180**	**128**	**13,631**	**-**	**281.00**	**3.00**

Community Drinking Water Systems in Marshall County

Note: Serviceability counts are for households within Marshall county only.

PWSID	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0790029	Benton Water & Sewer System	Marshall	6,551	2,958
KY0790056	Calvert City Municipal Water Department	Marshall	3,564	1,606
KY0790173	Hardin Water Department	Marshall	1,705	768
KY0790216	Jonathan Creek Water District	Marshall	4,531	2,731
KY0790319	North Marshall Water District	Marshall	10,940	5,703
KY0730533	Paducah Water Works	McCracken	1,086	464
		Totals:	28,377	14,230

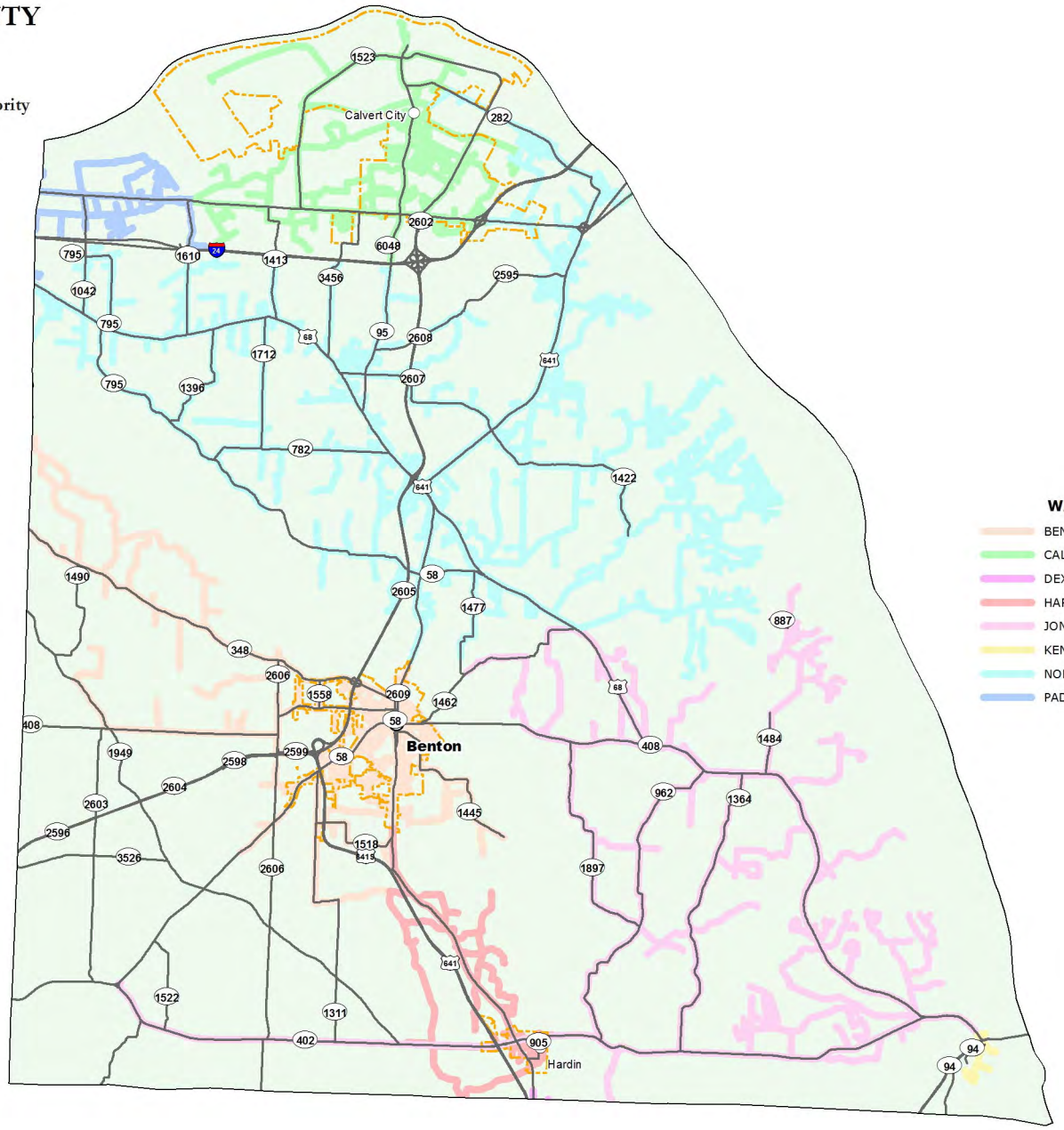
WATER SERVICE AREAS
MARSHALL COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

Kentucky Infrastructure Authority
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January, 2013

Water Resource Information System



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WATER SERVICE BY OWNER

- BENTON WATER & SEWER SYSTEM
- CALVERT CITY MUNICIPAL WATER DEPARTMENT
- DEXTER ALMO HEIGHTS WATER DISTRICT
- HARDIN WATER DEPARTMENT
- JONATHAN CREEK WATER DISTRICT
- KENTUCKY LAKE STATE RESORT PARK
- NORTH MARSHALL WATER DISTRICT
- PADUCAH WATER WORKS

System Summary for Benton Water & Sewer System

PWSID	KY0790029	Treats Water	Yes, 1 plant with total capacity of 2.000 MGD.
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	Yes, 3 sources.
Employees	6	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	Yes, to 3 purchasers.
Inside Mun. Cost	$12.00 per 4,000 gallons.	Storage Capacity	Yes, 2 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	2,953
Residential Customers	2,650	Total Produced (MG)	317.120
Commercial Customers	300	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	217.159
Industrial Customers	-	Total Wholesale Sold (MG)	53.170
Wholesale Customers	3	Estimated Pct. Water Loss	15%
Total Distribution System Line Length = 97.10 miles (Distribution: 96.58 miles, Transmission: 0.52 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Benton Water & Sewer System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21157007	City of Benton-Line Replacement Along Main Street	3-5 Years	Not Funded	$465,000	Marshall	4	1
WX21157014	City of Benton- Water Treatment Plant Upgrades	6-10 Years	Not Funded	$300,000	Marshall		
WX21157008	City of Benton- Line Replacement on Jackson School Rd.	6-10 Years	Not Funded	$285,000	Marshall		

System Summary for Calvert City Municipal Water Department

PWSID	KY0790056	Treats Water	Yes, 1 plant with total capacity of 2.000 MGD.
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	Yes, 3 sources.
Employees	8	Wholesale Purchaser	Yes, from 2 providers.
Non-Municipal Cost	-	Wholesale Provider	Yes, to 2 purchasers.
Inside Mun. Cost	$13.80 per 4,000 gallons.	Storage Capacity	Yes, 2 tanks with total capacity of 2.000 MG.
Outside Mun. Cost	$20.80 per 4,000 gallons.	Total Connections	1,572
Residential Customers	1,314	Total Produced (MG)	470.000
Commercial Customers	216	Total Purchased (MG)	-
Institutional Customers	2	Total Inside Usage (MG)	396.000
Industrial Customers	14	Total Wholesale Sold (MG)	-
Wholesale Customers	2	Estimated Pct. Water Loss	16%

Total Distribution System Line Length = 71.05 miles (Distribution: 62.68 miles, Transmission: 8.37 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Calvert City Municipal Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21157034	City of Calvert City-Johnson Subdivision Extension	0-2 Years	Not Funded	$20,000	Marshall	20	4
WX21157039	City of Calvert City-New Well Field	3-5 Years	Not Funded	$200,000	Marshall	21	3
WX21157037	City of Calvert City-Relocating Water Treatment Plant	3-5 Years	Not Funded	$15,000,000	Marshall		
WX21157047	City of Calvert City- Riverport Water Line Extensions	0-2 Years	Not Funded	$2,000,000	Marshall		
WX21157041	City of Calvert City-Meter Replacement Program	0-2 Years	Not Funded	$600,000	Marshall		
WX21157016	City of Calvert City-KY1523 Waterline Extension	3-5 Years	Not Funded	$443,819	Marshall		
WX21157015	City of Calvert City-South Waterline Extension	3-5 Years	Not Funded	$439,472	Marshall		
WX21157042	City of Calvert City-New WTP Filters	3-5 Years	Not Funded	$300,000	Marshall		
WX21157036	City of Calvert City-WTP to Cypress Creek Main Replacement	3-5 Years	Not Funded	$100,000	Marshall		
WX21157040	City of Calvert City-Line Evaluation and Rehab	0-2 Years	Not Funded	$100,000	Marshall		
WX21157031	City of Calvert City-Lone Valley Road Interconnect	3-5 Years	Not Funded	$100,000	Marshall		
WX21157048	City of Calvert City-Variable Frequency Drives	0-2 Years	Not Funded	$85,000	Marshall		
WX21157045	City of Calvert City-P.B. Cloud Road Extension	0-2 Years	Not Funded	$83,501	Marshall		
WX21157035	City of Calvert City-KY 282 North Marshall Interconnect	3-5 Years	Not Funded	$60,000	Marshall		
WX21157032	City of Calvert City-Dismore Lane Extension	3-5 Years	Not Funded	$22,500	Marshall		

System Summary for Hardin Water Department

PWSID	KY0790173	Treats Water	No
System Type	Community	Surface Source	No
Owner Type	Incorporated City	Groundwater Source	No
Employees	4	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	-	Wholesale Provider	No
Inside Mun. Cost	$25.60 per 4,000 gallons.	Storage Capacity	Yes, 3 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	$25.60 per 4,000 gallons.	Total Connections	599
Residential Customers	587	Total Produced (MG)	-
Commercial Customers	18	Total Purchased (MG)	53.170
Institutional Customers	-	Total Inside Usage (MG)	44.750
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	16%

Total Distribution System Line Length = 27.92 miles (Distribution: 27.92 miles, Transmission: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Hardin Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21157007	City of Benton-Line Replacement Along Main Street	3-5 Years	Not Funded	$465,000	Marshall	4	1

System Summary for Jonathan Creek Water District

PWSID	KY0790216	Treats Water	Yes, 1 plant with total capacity of 2.000 MGD.
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	Yes, 2 sources.
Employees	4	Wholesale Purchaser	Yes, from 1 provider.
Non-Municipal Cost	$29.12 per 4,000 gallons.	Wholesale Provider	No
Inside Mun. Cost	-	Storage Capacity	Yes, 4 tanks with total capacity of 0.000 MG.
Outside Mun. Cost	-	Total Connections	2,330
Residential Customers	2,229	Total Produced (MG)	160.290
Commercial Customers	101	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	130.920
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	-	Estimated Pct. Water Loss	18%

Total Distribution System Line Length = 123.69 miles (Distribution: 123.68 miles, Transmission: 0.01 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Jonathan Creek Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21157018	Jonathan Creek-Water Tank and Olive Creek Drive Ext.	0-2 Years	Not Funded	$475,000	Marshall		
WX21157006	Jonathan Creek Water District-Expansion	3-5 Years	Not Funded	$285,740	Marshall		
WX21157004	Jonathan Creek Water District-Expansion	3-5 Years	Not Funded	$226,148	Marshall		
WX21157044	Jonathan Creek-Phase III Expansion (Near KY-402)	3-5 Years	Not Funded	$200,000	Marshall		

System Summary for North Marshall Water District

PWSID	KY0790319	Treats Water	Yes, 2 plants with total capacity of 4.608 MGD.
System Type	Community	Surface Source	No
Owner Type	Water District (KRS 74)	Groundwater Source	Yes, 7 sources.
Employees	9	Wholesale Purchaser	Yes, from 3 providers.
Non-Municipal Cost	$26.50 per 4,000 gallons.	Wholesale Provider	Yes, to 3 purchasers.
Inside Mun. Cost	-	Storage Capacity	Yes, 7 tanks with total capacity of 1.000 MG.
Outside Mun. Cost	-	Total Connections	5,366
Residential Customers	5,031	Total Produced (MG)	442.936
Commercial Customers	238	Total Purchased (MG)	-
Institutional Customers	-	Total Inside Usage (MG)	410.679
Industrial Customers	-	Total Wholesale Sold (MG)	-
Wholesale Customers	3	Estimated Pct. Water Loss	7%

Total Distribution System Line Length = 233.96 miles (Distribution: 231.13 miles, Transmission: 2.83 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for North Marshall Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
WX21157011	North Marshall Water District- Line Replacement & New Tank	3-5 Years	Not Funded	$9,790,000	Marshall		
WX21157026	N. Marshall WD-Sharpe Community Water Main Extension	3-5 Years	Partially Funded	$382,000	Marshall		
WX21157035	City of Calvert City-KY 282 North Marshall Interconnect	3-5 Years	Not Funded	$60,000	Marshall		

Appendix A - Counties by Area Development District

County	ADD
Adair	LCADD
Allen	BRADD
Anderson	BGADD
Ballard	PUADD
Barren	BRADD
Bath	GWADD
Bell	CVADD
Boone	NKADD
Bourbon	BGADD
Boyd	FIVCO
Boyle	BGADD
Bracken	BTADD
Breathitt	KRADD
Breckinridge	LTADD
Bullitt	KIPDA
Butler	BRADD
Caldwell	PEADD
Calloway	PUADD
Campbell	NKADD
Carlisle	PUADD
Carroll	NKADD
Carter	FIVCO
Casey	LCADD
Christian	PEADD
Clark	BGADD
Clay	CVADD
Clinton	LCADD
Crittenden	PEADD
Cumberland	LCADD
Daviess	GRADD
Edmonson	BRADD
Elliott	FIVCO
Estill	BGADD
Fayette	BGADD
Fleming	BTADD
Floyd	BSADD
Franklin	BGADD
Fulton	PUADD
Gallatin	NKADD
Garrard	BGADD

County	ADD
Grant	NKADD
Graves	PUADD
Grayson	LTADD
Green	LCADD
Greenup	FIVCO
Hancock	GRADD
Hardin	LTADD
Harlan	CVADD
Harrison	BGADD
Hart	BRADD
Henderson	GRADD
Henry	KIPDA
Hickman	PUADD
Hopkins	PEADD
Jackson	CVADD
Jefferson	KIPDA
Jessamine	BGADD
Johnson	BSADD
Kenton	NKADD
Knott	KRADD
Knox	CVADD
Larue	LTADD
Laurel	CVADD
Lawrence	FIVCO
Lee	KRADD
Leslie	KRADD
Letcher	KRADD
Lewis	BTADD
Lincoln	BGADD
Livingston	PEADD
Logan	BRADD
Lyon	PEADD
McCracken	PUADD
McCreary	LCADD
McLean	GRADD
Madison	BGADD
Magoffin	BSADD
Marion	LTADD
Marshall	PUADD
Martin	BSADD

County	ADD
Mason	BTADD
Meade	LTADD
Menifee	GWADD
Mercer	BGADD
Metcalfe	BRADD
Monroe	BRADD
Montgomery	GWADD
Morgan	GWADD
Muhlenberg	PEADD
Nelson	LTADD
Nicholas	BGADD
Ohio	GRADD
Oldham	KIPDA
Owen	NKADD
Owsley	KRADD
Pendleton	NKADD
Perry	KRADD
Pike	BSADD
Powell	BGADD
Pulaski	LCADD
Robertson	BTADD
Rockcastle	CVADD
Rowan	GWADD
Russell	LCADD
Scott	BGADD
Shelby	KIPDA
Simpson	BRADD
Spencer	KIPDA
Taylor	LCADD
Todd	PEADD
Trigg	PEADD
Trimble	KIPDA
Union	GRADD
Warren	BRADD
Washington	LTADD
Wayne	LCADD
Webster	GRADD
Whitley	CVADD
Wolfe	KRADD
Woodford	BGADD