

Water-Resource Development: A Strategic Plan

Summary of Water Systems Bluegrass Area Development District

Water Resources Development Commission

October, 1999

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BLUEGRASS AREA DEVELOPMENT DISTRICT

699 Perimeter Drive
Lexington, KY 40517
(606) 269-8021

REGIONAL OVERVIEW

(Bluegrass ADD Existing & Proposed Water Lines Map)

- Estimated 1999 population of 632,000--93% on public water
- Estimated 2020 population of 706,000--95% on public water
- 4,870 miles of water lines, with plans for 1,220 additional miles
- Estimated funding needs for public water 2000-2005--\$78,900,000
- Estimated funding needs for public water 2006-2020--\$127,000,000

Bluegrass Area Development District had an estimated population of 631,849 (263,248 households) in 1999 with a projected population of 705,934 (315,125 households) in 2020. There are 4,870 miles of water lines in the region serving 578,000 people, or 93% of the region's population. 1,220 miles of proposed water line extensions for the period 2000-2020 would provide service to an additional 5,000 households. About 41,000 people in the region rely on private domestic water systems: 11,600 on wells and 29,200 on hauled water and other sources.

Estimated populations and public water service for the seventeen counties in the region is given below:

County	1999 Pop	On Public	2020 Pop	On Public
Anderson	18,800	14,100 (75%)	25,100	20,300 (81%)
Bourbon	19,200	15,900 (83%)	18,800	16,500 (88%)
Boyle	26,100	24,000 (92%)	27,300	26,800 (95%)
Clark	32,100	31,500 (98%)	35,600	35,600 (100%)
Estill	15,400	12,300 (80%)	15,300	12,700 (83%)
Fayette	230,300	229,600 (100%)	238,300	238,300 (100%)
Franklin	45,300	43,500 (96%)	46,100	44,300 (96%)
Garrard	14,200	12,500 (88%)	18,200	16,600 (91%)
Harrison	17,400	15,700 (90%)	18,800	17,500 (93%)
Jessamine	36,400	32,800 (90%)	46,500	42,800 (92%)
Lincoln	22,500	19,100 (85%)	26,100	23,000 (88%)
Madison	60,500	55,700 (92%)	72,800	67,700 (93%)
Mercer	20,700	19,000 (92%)	22,900	21,800 (95%)
Nicholas	7,100	6,200 (87%)	7,400	7,000 (94%)

EXISTING & PROPOSED WATER LINES

**BGADD
Kentucky**

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Water Resource Development Commission

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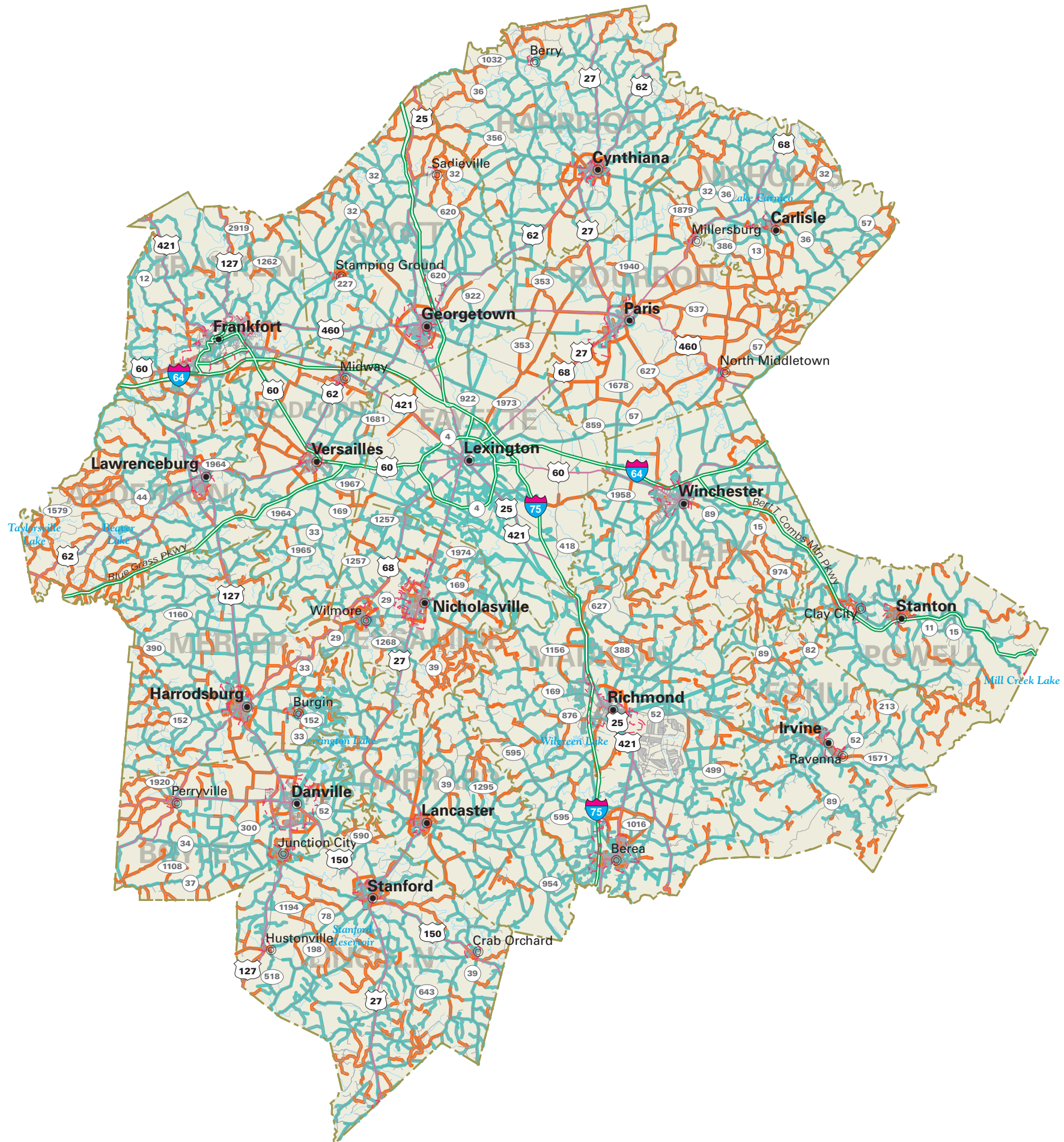
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WATER LINES

- Existing Water Lines
- Proposed Water Lines

Powell	12,900	9,700 (75%)	15,100	11,500 (76%)
Scott	30,200	27,200 (90%)	44,600	41,000 (92%)
Woodford	22,700	21,100 (93%)	27,000	25,700 (95%)
Region	632,000	590,000 (93%)	706,000	669,000 (95%)

66 public water systems serve the region: 60 community systems--25 municipal, 22 water districts, 5 water associations, 6 private, 1 state, 1 federal -- and 6 non-community systems. There are 17 small (501 to 3,300 people served) community systems and 3 very small (500 or fewer served) community systems.

Estimated costs for public water expansions and associated system upgrades are:

Estimated Costs - Proposed Projects, 2000-2005

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
ANDERSON								-
South Anderson W/D	76.5	313	3,382				190	3,572
Lawrenceburg Municipal				1,452		2,150	950	4,552
Alton Water District	23.5	80	970				210	1,180
TOTAL	100.0	393	4,352	1,452		2,150	1,350	9,304
BOURBON								-
North Middletown	1.5	18	78					78
Harrison Co. W/A	8.0	36	250					250
Judy W/A	49.0	183	2,200				180	2,380
Paris				700		680		1,380
Millersburg				80				80
TOTAL	58.5	237	2,528	780		680	180	4,168
BOYLE								-
Danville				200		500		700
Junction City				58				58
Perryville	24.0	125	720	1,000			275	1,995
Parksville	3.5	14	140					140
Lake Village Water				300				300
North Mercer W/D	5.5	27	200					200
TOTAL	33.0	166	1,060	1,558		500	275	3,393
CLARK								-
Winchester Municipal					1,700	4,000	1,200	6,900
East Clark W/D	35.0	227	1,720					1,720
Judy W/A	7.7	24	200					200
TOTAL	42.7	251	1,920		1,700	4,000	1,200	8,820
ESTILL								-
Irvine Municipal				300			70	370
Estill Co. W/D	18.0	51	823				740	1,563
TOTAL	18.0	51	823	300			810	1,933
FAYETTE								-
Kentucky-American	25.8	110	Private system					
TOTAL	25.8	110						

Appendix B - Bluegrass Area Development District • DRAFT

FRANKLIN								-
Elkorn W/D	2.5	4	75					75
Farmdale W/D					404			404
Peaks Mill W/D	2.0	5	76					76
U.S. 60	2.0	21	96					96
N. Shelby	3.0	5	90					90
Frankfort				2,500		2,000	2,500	7,000
TOTAL	9.5	35	337	2,500	404	2,000	2,500	7,741
GARRARD								-
Lancaster				200	1,800		50	2,050
Garrard Co. W/A	16.5	46	196					196
TOTAL	16.5	46	196	200	1,800		50	2,246
HARRISON								-
Cynthiana				772				772
Harrison Co. W/A	15.5	68	667	260			200	1,127
TOTAL	15.5	68	667	1,032			200	1,899
JESSAMINE								-
Wilmore				325	200	2,100		2,625
Jessamine-S. Elkhorn W/D	39.0	247	1,978				800	2,778
Nicholasville				1,066				1,066
Jessamine Co. W/D #1				179			1,150	1,329
TOTAL	39.0	247	1,978	1,570	200	2,100	1,950	7,798
LINCOLN								-
Stanford				920		2,800		3,720
Crab Orchard				110				110
Hustonville				310				310
Eubank	8.0	55	320					320
Mckinney	31.5	115	1,445					1,445
W. Rockcastle W/A	5.0	18	250					250
TOTAL	44.5	188	2,015	1,340		2,800	0	6,155
MADISON								-
Richmond				500		2,300	1,300	4,100
Berea				350				350
Garrard Co. W/A	2.5	19	110					110
Kirksville	8.5	33	450				550	1,000
Whitehall W/D	4.0	34	120	150			250	520
Waco W/D	5.0	14	200				250	450
S. Madison W/D	3.0	9	120					120
TOTAL	23.0	109	1,000	1,000		2,300	2,350	6,650
MERCER								-
Harrodsburg				700			820	1,520
Burgin				4,300				4,300
Lake Village Water	24.0	93	1,100					1,100
N. Mercer	16.0	45	730					730
TOTAL	40.0	138	1,830	5,000			820	7,650
NICHOLAS								-
Carlisle				30	250	2,100		2,380
Nicholas Co.	22.0	94	920					920
TOTAL	22.0	94	920	30	250	2,100	0	3,300
POWELL								-
Stanton				560				560
Clay city				31				31

Appendix B - Bluegrass Area Development District • DRAFT

Powells Valley	6.0	28	343	555			180	1,078
Beech Fork W/D					700	700		1,400
TOTAL	6.0	28	343	1,146	700	700	180	3,069
SCOTT								
Georgetown	14.0	218	730	1,000		1,000		2,730
Stamping Ground				93				93
Kentucky-American	46	140						
TOTAL	60.0	358	730	1,093		1,000	0	2,823
WOODFORD								
Versailles				360			900	1,260
Midway				140				140
S. Woodford W/D	6.0	35	260					260
Frankfort				330				330
TOTAL	6.0	35	260	830			900	1,990
BLUEGRASS	560	2,503	20,959	19,831	5,054	20,330	12,765	78,939

Estimated Costs - Proposed Projects, 2006-2020

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
ANDERSON								-
South Anderson W/D	34	141	1,454				240	1,694
Lawrenceburg Municipal Water								-
Alton Water District	7	27	330					330
North Mercer W/D	13.5	46	560					560
Total	54.5	214	2,344				240	2,584
BOURBON								-
North Middletown								-
Harrison Co. W/A.	24	73	1,030					1,030
Judy W/A	29	70	900					900
Paris				1,750		2,900	850	5,500
Millersburg				300				300
Total	53	143	1,930	2,050		2,900	850	7,730
BOYLE								-
Danville				2,000		1,500	1,950	5,450
Junction City	5	30	340				450	790
Perryville	7.5	88	300					300
Parksville	22.5	90	900				150	1,050
Lake Village Water								-
North Mercer W/D								-
Total	35	208	1,540	2,000		1,500	2,550	7,590
CLARK								-
Winchester Municipal				980				980
East Clark W/D	23.5	111	1,050					1,050
Judy W/A								-
Total	23.5	111	1,050	980				2,030
ESTILL								-
Irvine Municipal				540		2,900	350	3,790
Estill Co. W/D	47	115	1,972				300	2,272
Powells Valley	12.5	17	536				100	636
Total	59.5	132	2,508	540		2,900	750	6,698
FAYETTE								-

Appendix B - Bluegrass Area Development District • DRAFT

Kentucky American	7.4	52	Private system					
TOTAL	7.4	52						

FRANKLIN								-
Elkorn W/D								-
Farmdale W/D				562			2,000	2,562
Peaks Mill W/D	14	24	650					650
U.S. 60								-
N. Shelby	7	25	287					287
Frankfort				6,600			1,900	8,500
Total	21	49	937	7,162			3,900	11,999
GARRARD								-
Lancaster				750				750
Garrard Co. W/A	24	215	980	1,037				2,017
Crab Orchard					400			400
Total	24	215	980	1,787	400			3,167
HARRISON								-
Cynthiana				2,000		800	340	3,140
Harrison Co. W/A	50.5	178	2,208				160	2,368
Total	50.5	178	2,208	2,000		800	500	5,508
JESSAMINE								-
Wilmore				800				800
Jessamine-South Elkorn W/D	17	57	744					744
Nicholasville				1,313		5,500	1,100	7,913
Jessamine Co. W/D #1				250				250
Total	17	57	744	2,363		5,500	1,100	9,707
LINCOLN								-
Stanford				1,100			460	1,560
Crab Orchard				170				170
Hustonville				35				35
Eubank	20	96	900					900
McKinney	15	31	715					715
W. Rockcastle W/A	9	21	480					480
Garrard Co. W/A	1.5	15	75					75
Total	45.5	163	2,170	1,305			460	3,935
MADISON								-
Richmond				6,050		16,400	6,000	28,450
Berea				2,800	3,000	2,200	1,150	9,150
Garrard Co. W/A	2	19	85					85
Kirksville	24.5	108	1,400					1,400
Whitehall W/D	6	43	200	1,220				1,420
Waco W/D	28	119	1,200					1,200
S. Madison W/D	3	19	100	1,400				1,500
Kingston-Terrill W/D	9	42	400					400
Total	72.5	350	3,385	11,470	3,000	18,600	7,150	43,605
MERCER								-
Harrodsburg				730	500	4,100		5,330
Burgin				100				100
Lake Village Water	15	33	635					635
N. Mercer	35	91	1,400					1,400
Total	50	124	2,035	830	500	4,100		7,465

Appendix B - Bluegrass Area Development District • DRAFT

NICHOLAS									-
Carlisle				500					500
Nicholas Co.	32	86	1,327						1,327
Sharpsburg	12	11	478						478
Harrison Co. W/A	4	16	162						162
W. Flemington W/D	6.5	21	276						276
Total	54.5	134	2,243	500					2,743
POWELL									-
Stanton	2	15	74	375					449
Clay city				82					82
Powells Valley	21.5	39	968				250		1,218
Beech Fork W/D									-
Total	23.5	54	1,042	457			250		1,749
SCOTT									-
Georgetown	13	51	810	600			1,500		2,910
Stamping Ground				94					94
Kentucky American	14	45	Private system						
Total	27	96	810	694			1,500		3,004
Woodford									-
Versailles	7	39	500	1,000		3,800			5,300
Midway	7.5	78	360				275		635
S. Woodford W/D	7	15	291						291
Frankfort	19	46	738						738
N .E. Woodford Co. W/D	1	15	40						40
Total	41.5	193	1,929	1,000		3,800	275		7,004
BLUEGRASS	660	2,473	27,855	35,138	3,900	40,100	19,525		126,518

ANDERSON COUNTY

(Anderson County Water Service Area Map)

- Estimated 1999 population of 18,800--75% on public water
- Estimated 2020 population of 25,100--81% on public water
- 175 miles of water lines, with plans for 155 additional miles
- Estimated funding needs for public water 2000-2005--\$9,304,000
- Estimated funding needs for public water 2006-2020--\$2,584,000

Anderson County had an estimated population of 18,763 (7,480 households) in 1999 with a projected population of 25,060 (10,712 households) in 2020. Public water is provided to about 75 percent of the county's residents. In areas of the county not served by public water, about 1/6 of the households rely on private domestic wells and 5/6 of the households rely on other sources. About 610 customers will be added to public water service through new line extensions in 2000-2020.

Estimated Costs - Proposed Projects, 2000-2005

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/Pumps	Total
	Miles	Number	Cost in \$1000	In \$1000	in \$1000	in \$1000	in \$1000	in \$1000
ANDERSON								-
South Anderson W/D	76.5	313	3,382				190	3,572
Lawrenceburg Municipal Water				1,452		2,150	950	4,552
Alton Water District	23.5	80	970				210	1,180
TOTAL	100.0	393	4,352	1,452		2,150	1,350	9,304

Estimated Costs - Proposed Projects, 2006-2020

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
ANDERSON								-
South Anderson W/D	34	141	1,454				240	1,694
Lawrenceburg Municipal Water								-
Alton Water District	7	27	330					330
North Mercer W/D	13.5	46	560					560
Total	54.5	214	2,344				240	2,584

PUBLIC WATER SYSTEMS

Anderson County has 3 public water systems: 1 municipal, Lawrenceburg Water & Sewer Department; and 2 water districts, Alton Water District and South Anderson Water

WATER SERVICE AREAS ANDERSON COUNTY Kentucky

Prepared By:
Water Resource Development Commission

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Frankfort, Kentucky 40601-8204
502-573-2382 -- 502-573-2939 fax
<http://dlgnt1.state.ky.us/wrdc/>

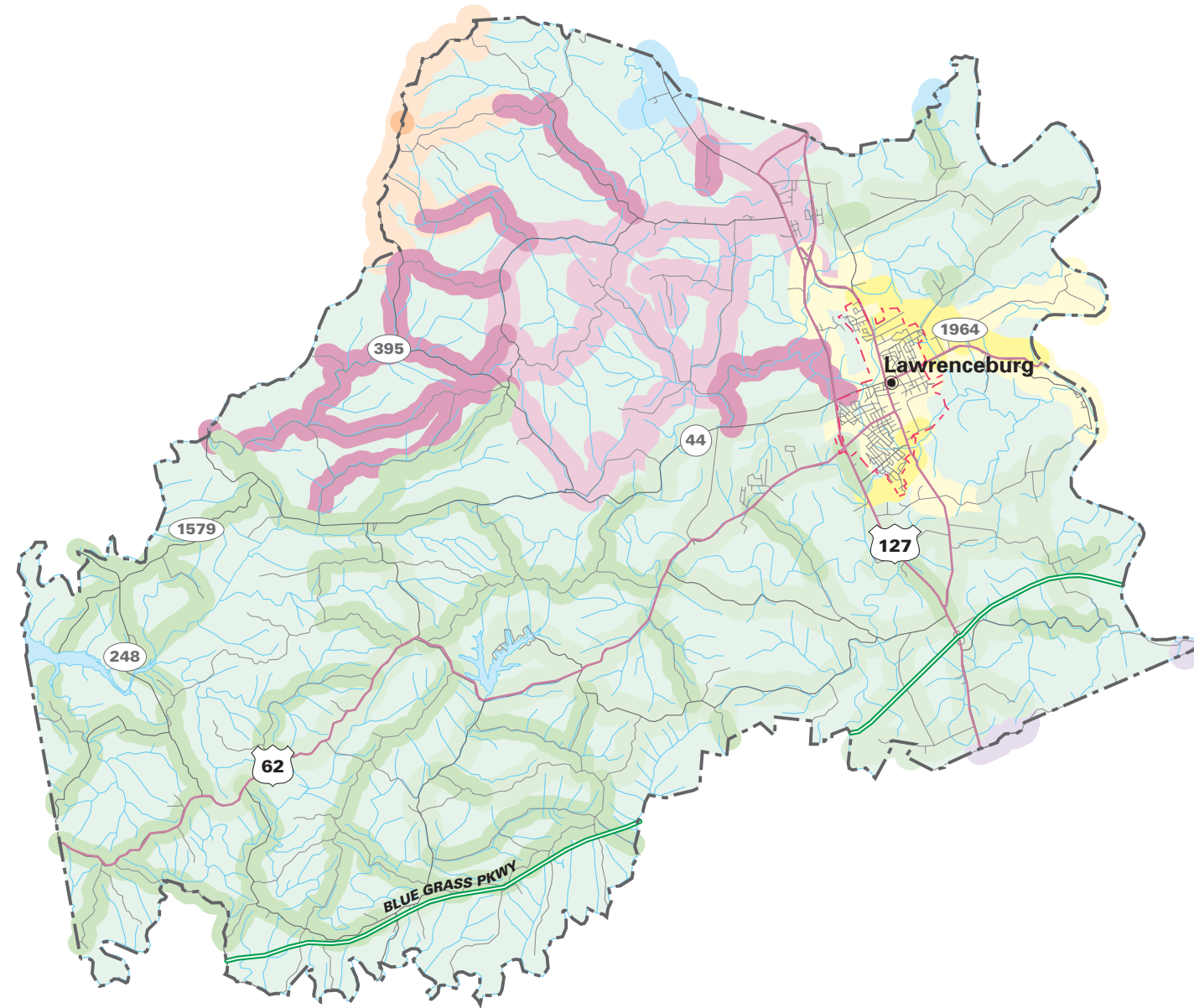
Bob Arnold, Chairman
Lawrence Wetherby, Executive Director

Final GIS & Cartographic Operations By:
Kent Anness & Kim Prough

Data Collection & GIS Input By:
Kentucky Area Development Districts



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WATER SERVICE STATUS BY OWNER

EXISTING SERVICE AREA	PROPOSED SERVICE AREA	OWNER
		U S 60 WATER DISTRICT
		SOUTH ANDERSON WATER DISTRICT
		NORTH MERCER WATER DISTRICT
		LAWRENCEBURG WATER AND SEWER DEPARTMENT
		FARMDALE WATER DISTRICT
		ALTON WATER DISTRICT

District. Parts of the county are also served by the US 60 Water District, Farmdale Water District, and North Mercer Water District.

ALTON WATER DISTRICT

PWSID: 0030007
 System Type:..... COMMUNITY
 Owner Type:..... WATER DISTRICT
 Surface Source:
 Purchase Source:
 Well Source:
 Sells Water to:
 Treatment Plant Capacity (MGD):..... 0.00
 Percent Daily Average Production:..... 0.00
 Total Tank Storage Capacity (gallons): 180,000.00
 Total Service Connections: 889.00
 Number of Employees:..... 0.00
 Treatment Operator Class:2D
 Distribution Operator Class:
 Customer Rate for 1,000 Gallons:..... 4.62
 O/M costs 1997:..... 147,469.00
 O/M costs per Service Connection: 208.29
 Net Revenue 1997: 36,344.00
 Total Water Produced 1997 (gallons):..... 0.00
 Water Sold 1997 (gallons):..... 42,371,900.00
 Unaccounted-for Water 1997 (%): 0.00

LAWRENCEBURG MUNICIPAL WATER AND SEWER DEPARTMENT

PWSID: 0030239
 System Type:..... COMMUNITY
 Owner Type:..... MUNICIPAL
 Surface Source:..... KENTUCKY RIVER
 Purchase Source:
 Well Source:
 Sells Water to:
 Treatment Plant Capacity (MGD):..... 2.59
 Percent Daily Average Production:..... 65.00
 Total Tank Storage Capacity (gallons): 500,000.00
 Total Service Connections: 3,661.00
 Number of Employees:..... 9.00
 Treatment Operator Class:2D
 Distribution Operator Class:.....3A
 Customer Rate for 1,000 Gallons:..... Not available
 O/M costs 1997:..... Not available
 O/M costs per Service Connection: Not available
 Net Revenue 1997: Not available
 Total Water Produced 1997 (gallons):..... Not available
 Water Sold 1997 (gallons):..... Not available
 Unaccounted-for Water 1997 (%): Not available

SOUTH ANDERSON WATER DISTRICT

PWSID:.....	0030660
System Type:.....	COMMUNITY
Owner Type:.....	WATER DISTRICT
Surface Source:	
Purchase Source:	
Well Source:	
Sells Water to:	
Treatment Plant Capacity (MGD):.....	0.00
Percent Daily Average Production:.....	0.00
Total Tank Storage Capacity (gallons):.....	100,000.00
Total Service Connections:.....	0.00
Number of Employees:.....	0.00
Treatment Operator Class:.....	2D
Distribution Operator Class:	
Customer Rate for 1,000 Gallons:.....	4.60
O/M costs 1997:.....	301,476.00
O/M costs per Service Connection:.....	213.66
Net Revenue 1997:.....	4,907.00
Total Water Produced 1997 (gallons):.....	0.00
Water Sold 1997 (gallons):.....	90,487,100.00
Unaccounted-for Water 1997 (%):.....	7.17

PRIVATE DOMESTIC SYSTEMS

About 4,500 people in Anderson County rely on private domestic water supplies: about 700 on wells and 3,800 on other sources.

In the valley bottoms of the Kentucky and the Salt Rivers and their major tributaries, most drilled wells will produce enough water for a domestic supply at depths of less than 100 feet. Wells located in the smaller creek valleys throughout the county will produce enough water for a domestic supply except during dry weather. In the areas above the stream valleys throughout Anderson County, which encompasses approximately 60% of the county, most drilled wells will not produce enough water for a dependable domestic supply except along drainage lines which may produce enough water except during dry weather.

Throughout the county ground water is hard or very hard and may contain salt or hydrogen sulfide, especially at depths greater than 100 feet.

BOURBON COUNTY

(Bourbon County Water Service Area Map)

- Estimated 1999 population of 19,200--83% on public water
- Estimated 2020 population of 18,800--88% on public water
- 165 miles of water lines, with plans for 110 additional miles
- Estimated funding needs for public water 2000-2005--\$4,168,000
- Estimated funding needs for public water 2006-2020--\$7,730,000

Bourbon County had an estimated population of 19,231 (7,737 households) in 1999 with a projected population of 18,822 (8,202 households) in 2020. Public water is provided to about 83 percent of the county's residents. In areas of the county not served by public water, about 30 percent of the households rely on private domestic wells and 70 percent of the households rely on other sources. About 380 customers will be added to public water service through new line extensions in 2000-2020.

Estimated Costs - Proposed Projects, 2000-2005

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/Pumps	Total
	Miles	Number	Cost in \$1000	In \$1000	in \$1000	in \$1000	in \$1000	in \$1000
BOURBON								-
North Middletown	1.5	18	78					78
Harrison Co. W/A	8.0	36	250					250
Judy W/A	49.0	183	2,200				180	2,380
Paris				700		680		1,380
Millersburg				80				80
TOTAL	58.5	237	2,528	780		680	180	4,168

Estimated Costs - Proposed Projects, 2006-2020

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
BOURBON								-
North Middletown								-
Harrison Co. W/A	24	73	1,030					1,030
Judy W/A	29	70	900					900
Paris				1,750		2,900	850	5,500
Millersburg				300				300
Total	53	143	1,930	2,050		2,900	850	7,730

WATER SERVICE AREAS BOURBON COUNTY Kentucky

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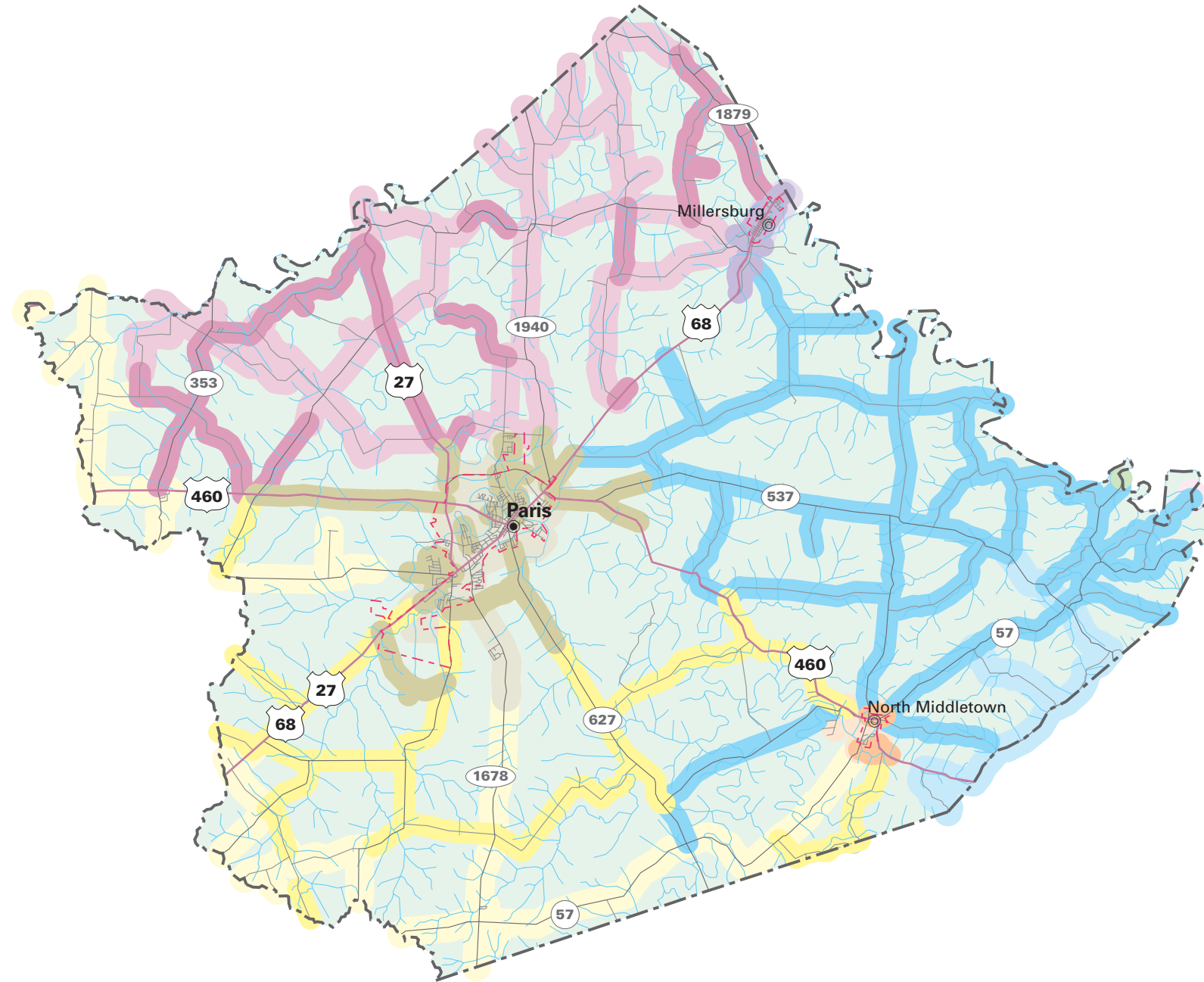
Bob Arnold, Chairman
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Kent Anness & Kim Prough

Data Collection & GIS Input By:
Kentucky Area Development Districts



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WATER SERVICE STATUS BY OWNER

EXISTING SERVICE AREA	PROPOSED SERVICE AREA	OWNER
		SHARPSBURG WATER DISTRICT
		PARIS WATER WORKS
		NORTH MIDDLETOWN WATER DEPARTMENT
		NICHOLAS COUNTY WATER DISTRICT
		MILLERSBURG MUNICIPAL WATER WORKS
		KENTUCKY-AMERICAN WATER COMPANY
		JUDY WATER ASSOCIATION
		HARRISON COUNTY WATER ASSOCIATION

PUBLIC WATER SYSTEMS

Bourbon County has 3 municipal water systems--Millersburg Municipal Water Works, Paris Water Works, and North Middletown Water Department. Parts of the county are also served by the Harrison County Water District, Judy Water Association, and Kentucky-American Water Company.

MILLERSBURG MUNICIPAL WATER WORKS

PWSID: 0090287
System Type:..... COMMUNITY
Owner Type: MUNICIPAL
Surface Source:.....HINKSTON CREEK
Purchase Source:
Well Source:
Sells Water to:
Treatment Plant Capacity (MGD):..... 0.36
Percent Daily Average Production:..... 23.00
Total Tank Storage Capacity (gallons): 200,000.00
Total Service Connections: 425.00
Number of Employees:..... 1.00
Treatment Operator Class: 1D
Distribution Operator Class:.....2A
Customer Rate for 1,000 Gallons:.....Not available
O/M costs 1997:Not available
O/M costs per Service Connection:Not available
Net Revenue 1997:Not available
Total Water Produced 1997 (gallons):.....Not available
Water Sold 1997 (gallons):.....Not available
Unaccounted-for Water 1997 (%):Not available

NORTH MIDDLETOWN MUNICIPAL WATER DEPARTMENT

PWSID: 0090322
System Type:..... COMMUNITY
Owner Type: MUNICIPAL
Surface Source:.....STONER CREEK
Purchase Source:
Well Source:
Sells Water to:
Treatment Plant Capacity (MGD):..... 0.00
Percent Daily Average Production:..... 0.00
Total Tank Storage Capacity (gallons): 100,000.00
Total Service Connections: 379.00
Number of Employees:..... 2.00
Treatment Operator Class: 1D
Distribution Operator Class:.....2A
Customer Rate for 1,000 Gallons:.....Not available
O/M costs 1997:Not available
O/M costs per Service Connection:Not available
Net Revenue 1997:Not available

Total Water Produced 1997 (gallons):..... Not available
 Water Sold 1997 (gallons):..... Not available
 Unaccounted-for Water 1997 (%): Not available

PARIS MUNICIPAL WATER WORKS

PWSID: 0090343
 System Type:..... COMMUNITY
 Owner Type:..... MUNICIPAL
 Surface Source:..... STONER CREEK
 Purchase Source:
 Well Source:
 Sells Water to:
 Treatment Plant Capacity (MGD):..... 3.00
 Percent Daily Average Production:..... 44.00
 Total Tank Storage Capacity (gallons): 1,000,000.00
 Total Service Connections: 4,243.00
 Number of Employees:..... 12.00
 Treatment Operator Class:2D
 Distribution Operator Class:.....4A
 Customer Rate for 1,000 Gallons:..... Not available
 O/M costs 1997:..... Not available
 O/M costs per Service Connection: Not available
 Net Revenue 1997: Not available
 Total Water Produced 1997 (gallons):..... Not available
 Water Sold 1997 (gallons):..... Not available
 Unaccounted-for Water 1997 (%): Not available

PRIVATE DOMESTIC SYSTEMS

About 3,300 residents of Bourbon County rely on private domestic water supplies: 1,000 on wells and 2,300 on other sources.

In the valleys of the South Fork of the Licking River, Stoner and Hinkston Creek and their major tributaries most drilled wells will produce enough water for a domestic supply at depths of less than 100 feet. Wells located in upper reaches of the larger creek valleys will produce enough water for a domestic supply except during dry weather. In the upland areas of eastern and southern Bourbon County which encompasses 30% of the county, most drilled wells will not produce enough water for a dependable domestic supply except along drainage lines which may produce enough water except during dry weather.

Throughout the county ground water is hard or very hard and may contain salt or hydrogen sulfide, especially at depths greater than 100 feet.

BOYLE COUNTY

(Boyle County Water Service Area Map)

- Estimated 1999 population of 26,100--92% on public water
- Estimated 2020 population of 27,300--95% on public water
- 220 miles of water lines, with plans for 68 additional miles
- Estimated funding needs for public water 2000-2005--\$3,393,000
- Estimated funding needs for public water 2006-2020--\$7,590,000

Boyle County had an estimated population of 26,107 (10,539 households) in 1999 with a projected population of 27,300 (11,711 households) in 2020. Public water is provided to about 92 percent of the county's residents. In areas of the county not served by public water, about 35 percent of the households rely on private domestic wells and 65 percent of the households rely on other sources. About 375 customers will be added to public water service through new line extensions in 2000-2020.

Estimated Costs - Proposed Projects, 2000-2005

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/Pumps	Total
	Miles	Number	Cost in \$1000	In \$1000	in \$1000	in \$1000	in \$1000	in \$1000
BOYLE								-
Danville				200		500		700
Junction City				58				58
Perryville	24.0	125	720	1,000			275	1,995
Parksville	3.5	14	140					140
Lake Village Water				300				300
North Mercer W/D	5.5	27	200					200
TOTAL	33.0	166	1,060	1,558		500	275	3,393

Estimated Costs - Proposed Projects, 2006-2020

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
BOYLE								-
Danville				2,000		1,500	1,950	5,450
Junction City	5	30	340				450	790
Perryville	7.5	88	300					300
Parksville	22.5	90	900				150	1,050
Lake Village Water								-
North Mercer W/D								-
Total	35	208	1,540	2,000		1,500	2,550	7,590

WATER SERVICE AREAS BOYLE COUNTY Kentucky



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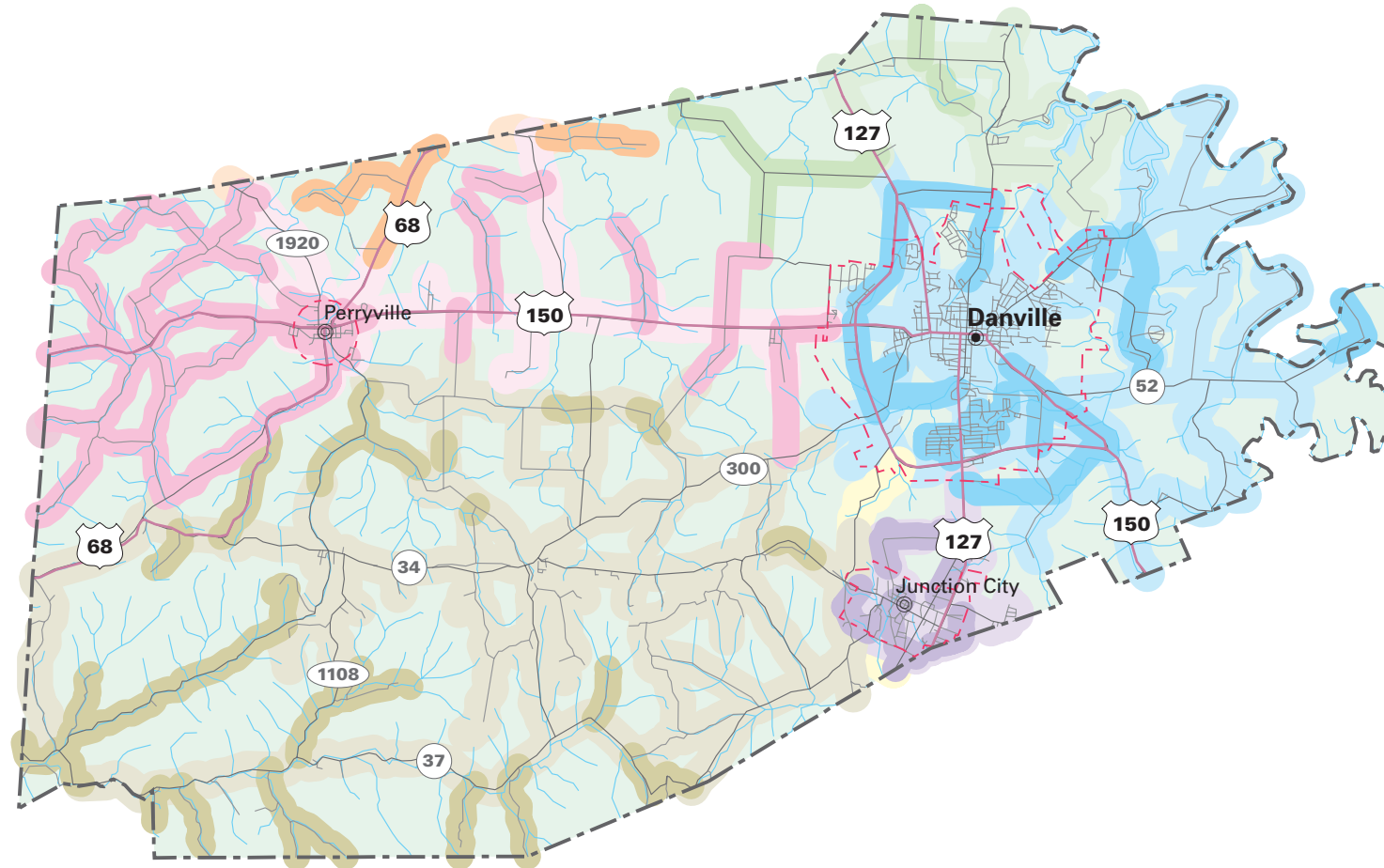
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WATER SERVICE STATUS BY OWNER

EXISTING SERVICE AREA	PROPOSED SERVICE AREA	
		PERRYVILLE MUNICIPAL WATER
		PARKSVILLE WATER DISTRICT
		NORTH MERCER WATER DISTRICT
		LAKE VILLAGE WATER ASSOCIATION
		JUNCTION CITY MUNICIPAL WATER
		HUSTONVILLE MUNICIPAL WATER
		DANVILLE MUNICIPAL WATER
		CITY OF BRANDENBURG

PUBLIC WATER SYSTEMS

Boyle County has 6 community water systems: 2 municipal, Danville City Water Works and Junction City Water System; 2 water districts, Parksville Water District and Perryville Water District; 1 state system, Northpoint Training Center; and 1 private system, River Ridge Water Company. Lake Village Water District and North Mercer Water District also serve parts of the county.

DANVILLE MUNICIPAL WATER WORKS

PWSID: 0110097
 System Type:..... COMMUNITY
 Owner Type:..... MUNICIPAL
 Surface Source:..... HERRINGTON LAKE
 Purchase Source:
 Well Source:
 Sells Water to:
 Treatment Plant Capacity (MGD):..... 10.00
 Percent Daily Average Production:..... 41.00
 Total Tank Storage Capacity (gallons):..... 150,000.00
 Total Service Connections: 6,700.00
 Number of Employees:..... 13.00
 Treatment Operator Class:3D
 Distribution Operator Class:.....4A
 Customer Rate for 1,000 Gallons:..... Not available
 O/M costs 1997:..... Not available
 O/M costs per Service Connection: Not available
 Net Revenue 1997:..... Not available
 Total Water Produced 1997 (gallons):..... Not available
 Water Sold 1997 (gallons):..... Not available
 Unaccounted-for Water 1997 (%): Not available

JUNCTION CITY MUNICIPAL WATER SYSTEM

PWSID: 0110218
 System Type:..... COMMUNITY
 Owner Type:..... MUNICIPAL
 Surface Source:
 Purchase Source:
 Well Source:
 Sells Water to:
 Treatment Plant Capacity (MGD):..... 0.00
 Percent Daily Average Production:..... 0.00
 Total Tank Storage Capacity (gallons):..... 300,000.00
 Total Service Connections: 1,231.00
 Number of Employees:..... 4.00
 Treatment Operator Class:2D
 Distribution Operator Class:
 Customer Rate for 1,000 Gallons:..... Not available
 O/M costs 1997:..... Not available

O/M costs per Service Connection: Not available
 Net Revenue 1997: Not available
 Total Water Produced 1997 (gallons): Not available
 Water Sold 1997 (gallons): Not available
 Unaccounted-for Water 1997 (%): Not available

PARKSVILLE WATER DISTRICT

PWSID: 0110345
 System Type: COMMUNITY
 Owner Type: WATER DISTRICT
 Surface Source:
 Purchase Source:
 Well Source:
 Sells Water to:
 Treatment Plant Capacity (MGD): 0.00
 Percent Daily Average Production: 0.00
 Total Tank Storage Capacity (gallons): 75,000.00
 Total Service Connections: 1,023.00
 Number of Employees: 7.00
 Treatment Operator Class: 2D
 Distribution Operator Class:
 Customer Rate for 1,000 Gallons: 6.75
 O/M costs 1997: 327,277.00
 O/M costs per Service Connection: 294.05
 Net Revenue 1997: 3,618.00
 Total Water Produced 1997 (gallons): 0.00
 Water Sold 1997 (gallons): 59,644,500.00
 Unaccounted-for Water 1997 (%): 18.75

PERRYVILLE MUNICIPAL WATER

PWSID: 0110349
 System Type: COMMUNITY
 Owner Type: WATER DISTRICT
 Surface Source:
 Purchase Source:
 Well Source:
 Sells Water to:
 Treatment Plant Capacity (MGD): 0.00
 Percent Daily Average Production: 0.00
 Total Tank Storage Capacity (gallons): 120,000.00
 Total Service Connections: 653.00
 Number of Employees: 3.00
 Treatment Operator Class: 2D
 Distribution Operator Class:
 Customer Rate for 1,000 Gallons: Not available
 O/M costs 1997: Not available
 O/M costs per Service Connection: Not available
 Net Revenue 1997: Not available
 Total Water Produced 1997 (gallons): Not available
 Water Sold 1997 (gallons): Not available
 Unaccounted-for Water 1997 (%): Not available

OTHER SYSTEMS

RIVER RIDGE WATER COMPANY

River Ridge Water Company is located in Boyle County. The system serves a population of 66 and has 20 service connections. The system is a private, community system.

NORTH POINT TRAINING CENTER

North Point Training Center is located in Boyle County. The system serves a population of 1,200 and has 1 service connection. The state, community system has treatment capacity of 360,000 gallons per day and storage capacity of 278,000 gallons. The water source is surface water from Herrington Lake.

PRIVATE DOMESTIC SYSTEMS

About 2,050 residents of the county rely on private domestic water supplies: 700 on wells and 1,350 on other sources.

In the northern half of the County within the larger creek and river valleys most drilled wells will produce enough water for a domestic supply at depths of less than 100 feet. In the rest of Boyle County wells located in the larger creek valleys will produce enough water for a domestic supply except during dry weather. In the upland areas of Boyle County, which encompasses 85% of the county, most drilled wells will not produce enough water for a dependable domestic supply except along drainage lines that may produce enough water except during dry weather.

Throughout the County ground water is hard or very hard and may contain salt or hydrogen sulfide, especially at depths greater than 100 feet.

CLARK COUNTY

(Clark County Water Service Area Map)

- Estimated 1999 population of 32,100--98% on public water
- Estimated 2020 population of 35,600--100% on public water
- 265 miles of water lines, with plans for 67 additional miles
- Estimated funding needs for public water 2000-2005--\$8,820,000
- Estimated funding needs for public water 2006-2020--\$2,030,000

Clark County had an estimated population of 32,066 (12,263 households) in 1999 with a projected population of 35,640 (14,859 households) in 2020. Public water is provided to about 98 percent of the county's residents. In areas of the county not served by public water, about 33 percent of the households rely on private domestic wells and 67 percent of the households rely on other sources. About 365 customers will be added to public water service through new line extensions in 2000-2020.

Estimated Costs - Proposed Projects, 2000-2005

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/Pumps	Total
	Miles	Number	Cost in \$1000	In \$1000	in \$1000	in \$1000	in \$1000	in \$1000
CLARK								-
Winchester Municipal					1,700	4,000	1,200	6,900
East Clark W/D	35.0	227	1,720					1,720
Judy W/A	7.7	24	200					200
TOTAL	42.7	251	1,920		1,700	4,000	1,200	8,820

Estimated Costs - Proposed Projects, 2006-2020

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
CLARK								-
Winchester Municipal				980				980
East Clark W/D	23.5	111	1,050					1,050
Judy W/A								-
Total	23.5	111	1,050	980				2,030

PUBLIC WATER SYSTEMS

Clark County has 3 community water systems: 1 municipal, Winchester Municipal Utilities; 1 water district, East Clark County Water District; and 1 water association, Boonesboro Water Association/Kentucky-American. A few residents in the county may also be served by Judy Water Association and Reid Village Water District.

WATER SERVICE AREAS CLARK COUNTY Kentucky



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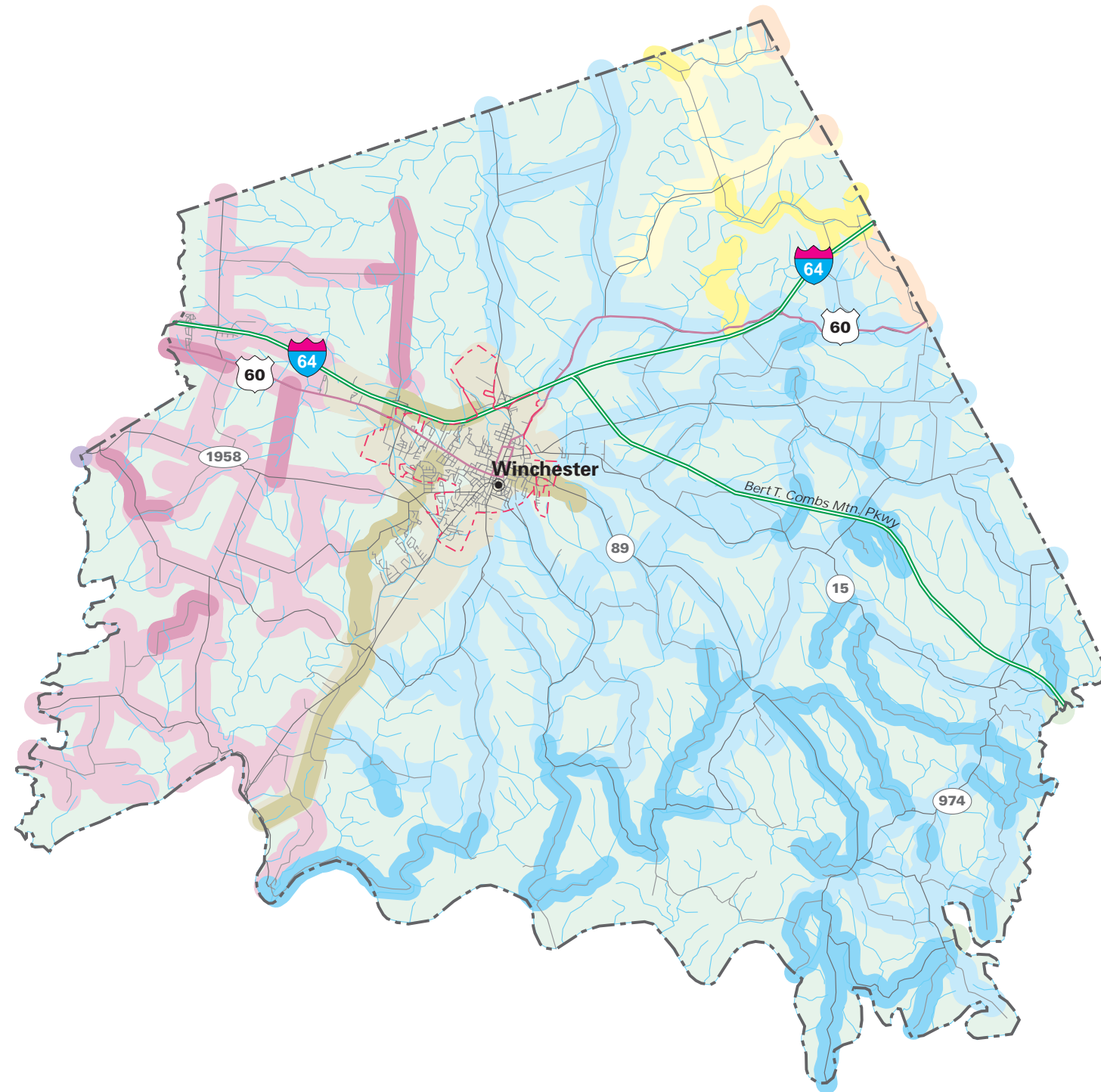
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WATER SERVICE STATUS BY OWNER

EXISTING SERVICE AREA	PROPOSED SERVICE AREA	OWNER
		WINCHESTER MUNICIPAL UTILITIES
		REID VILLAGE WATER DISTRICT
		POWELL VALLEY WATER DISTRICT
		KENTUCKY-AMERICAN WATER COMPANY
		JUDY WATER ASSOCIATION
		EAST CLARK COUNTY WATER DISTRICT
		BOONESBORO WATER ASSOCIATION/KY AMERICAN

BOONESBORO WATER ASSOCIATION/KENTUCKY AMERICAN

PWSID: 0250035
 System Type:..... COMMUNITY
 Owner Type:..... WATER ASSOCIATION
 Surface Source:
 Purchase Source: WINCHESTER MUNICIPAL UTILITIES
 Well Source:
 Sells Water to:
 Treatment Plant Capacity (MGD):..... 0.00
 Percent Daily Average Production:..... 0.00
 Total Tank Storage Capacity (gallons): 250,000.00
 Total Service Connections: 0.00
 Number of Employees:..... 0.00
 Treatment Operator Class:2D
 Distribution Operator Class:
 Customer Rate for 1,000 Gallons:..... 3.73
 O/M costs 1997:..... 399,966.00
 O/M costs per Service Connection: 327.30
 Net Revenue 1997: 12,672.00
 Total Water Produced 1997 (gallons):..... 0.00
 Water Sold 1997 (gallons): 120,029,900.00
 Unaccounted-for Water 1997 (%): 9.40

WINCHESTER MUNICIPAL UTILITIES

PWSID: 0250473
 System Type:..... COMMUNITY
 Owner Type:..... MUNICIPAL
 Surface Source:..... KENTUCKY RIVER
 Purchase Source:
 Well Source:
 Sells Water to: EAST CLARK COUNTY WATER DISTRICT
 Treatment Plant Capacity (MGD):..... 4.90
 Percent Daily Average Production:..... 75.00
 Total Tank Storage Capacity (gallons): 500,000.00
 Total Service Connections: 9,230.00
 Number of Employees:..... 0.00
 Treatment Operator Class:3D
 Distribution Operator Class:.....4A
 Customer Rate for 1,000 Gallons:..... Not available
 O/M costs 1997:..... Not available
 O/M costs per Service Connection: Not available
 Net Revenue 1997: Not available
 Total Water Produced 1997 (gallons):..... Not available
 Water Sold 1997 (gallons): Not available
 Unaccounted-for Water 1997 (%): Not available

EAST CLARK COUNTY WATER DISTRICT

PWSID: 0250981
 System Type:..... COMMUNITY
 Owner Type:..... WATER DISTRICT
 Surface Source:
 Purchase Source: FLANNAGAN STATION RD
 Well Source:

Sells Water to:	
Treatment Plant Capacity (MGD):.....	0.00
Percent Daily Average Production:.....	0.00
Total Tank Storage Capacity (gallons):.....	100,000.00
Total Service Connections:	1,483.00
Number of Employees:.....	6.00
Treatment Operator Class:	2D
Distribution Operator Class:	
Customer Rate for 1,000 Gallons:.....	9.83
O/M costs 1997:.....	423,540.00
O/M costs per Service Connection:	285.60
Net Revenue 1997:	61,848.00
Total Water Produced 1997 (gallons):.....	0.00
Water Sold 1997 (gallons):.....	97,681,000.00
Unaccounted-for Water 1997 (%):	7.14

PRIVATE DOMESTIC SYSTEMS

About 650 people in Clark County rely on private domestic water supplies: 200 on wells, and 450 on other sources.

In the larger stream valleys of northwestern Clark County and along the thin Kentucky River valley, most drilled wells will produce enough water for a domestic supply at depths of less than 100 feet. In the larger creek valleys throughout the county and in the southwestern corner of the county, some wells will produce enough water for a domestic supply except during dry weather. In the upland areas of Clark County, which encompasses 50% of the county, most drilled wells will not produce enough water for a dependable domestic supply except along drainage lines that may produce enough water except during dry weather.

Throughout the county ground water is hard or very hard and may contain salt or hydrogen sulfide, especially at depths greater than 100 feet.

ESTILL COUNTY

(Estill County Water Service Area Map)

- Estimated 1999 population of 15,400--80% on public water
- Estimated 2020 population of 15,300--83% on public water
- 260 miles of water lines, with plans for 78 additional miles
- Estimated funding needs for public water 2000-2005--\$1,933,000
- Estimated funding needs for public water 2006-2020--\$6,698,000

Estill County had an estimated population of 15,420 (6,066 households) in 1999 with a projected population of 15,345 (6,700 households) in 2020. Public water is provided to about 80 percent of the county's residents. In areas of the county not served by public water, about 25 percent of the households rely on private domestic wells and 75 percent of the households rely on other sources. About 185 customers will be added to public water service through new line extensions in 2000-2020.

Estimated Costs - Proposed Projects, 2000-2005

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/Pumps	Total
	Miles	Number	Cost in \$1000	In \$1000	in \$1000	in \$1000	in \$1000	in \$1000
ESTILL								-
Irvine Municipal				300			70	370
Estill Co. W/D	18.0	51	823				740	1,563
TOTAL	18.0	51	823	300			810	1,933

Estimated Costs - Proposed Projects, 2006-2020

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
ESTILL								-
Irvine Municipal				540		2,900	350	3,790
Estill Co. W/D	47	115	1,972				300	2,272
Powells Valley	12.5	17	536				100	636
Total	59.5	132	2,508	540		2,900	750	6,698

PUBLIC WATER SYSTEMS

Estill County has 4 public water systems: 2 community--1 municipal, Irvine Municipal Utilities; 1 water district, Estill County Water District; and 2 non-community systems. Powells Valley Water District also serves customers in the county.

WATER SERVICE AREAS

ESTILL COUNTY

Kentucky

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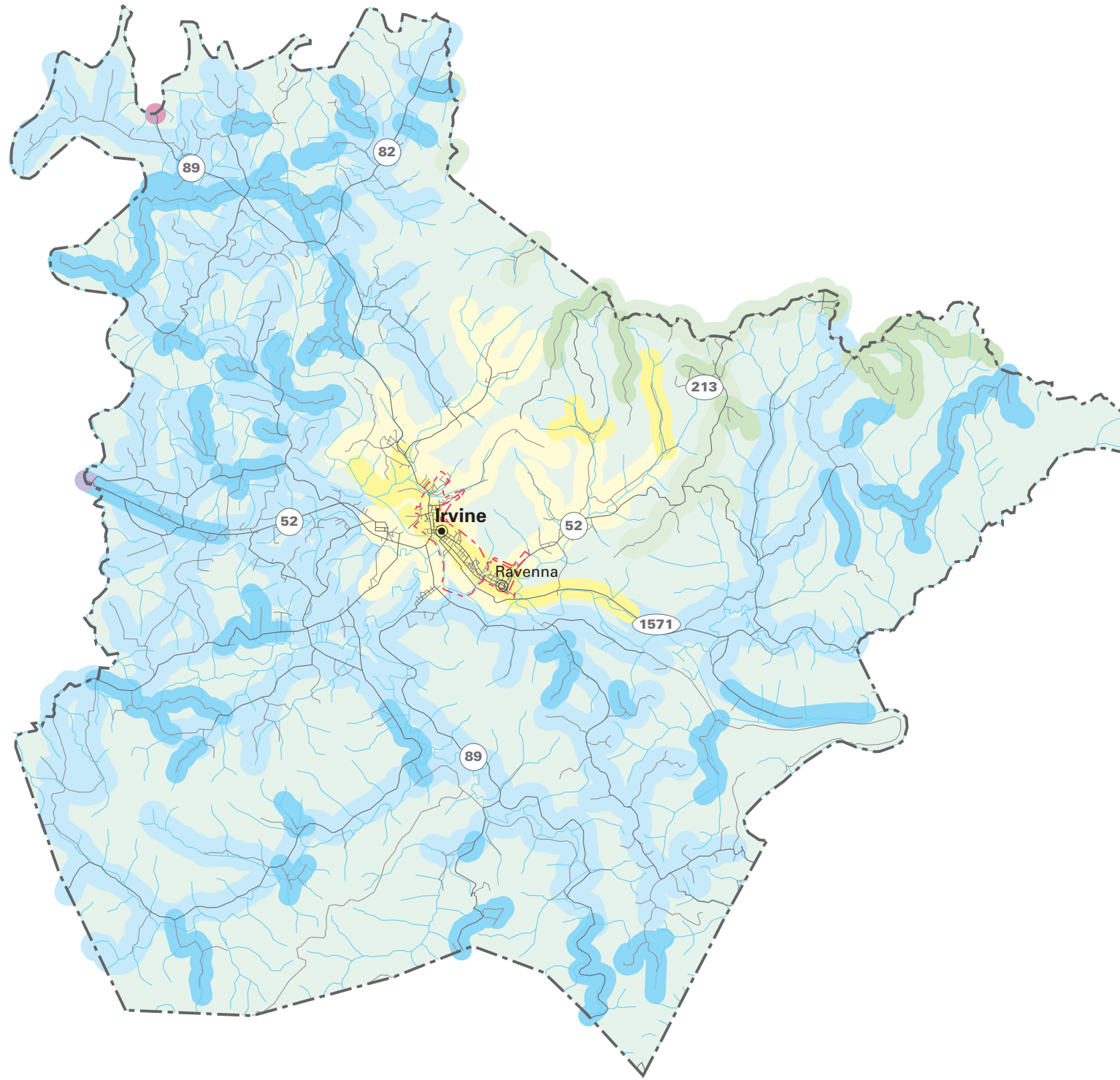
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WATER SERVICE STATUS BY OWNER

EXISTING SERVICE AREA	PROPOSED SERVICE AREA	OWNER
		POWELL VALLEY WATER DISTRICT
		MADISON COUNTY UTILITIES/WACO
		IRVINE MUNICIPAL UTILITIES
		ESTILL COUNTY WATER DISTRICT
		EAST CLARK COUNTY WATER DISTRICT

ESTILL COUNTY WATER DISTRICT

PWSID: 0330123
System Type:..... COMMUNITY
Owner Type:..... WATER DISTRICT
Surface Source:
Purchase Source:
Well Source:
Sells Water to:
Treatment Plant Capacity (MGD):..... 0.00
Percent Daily Average Production:..... 0.00
Total Tank Storage Capacity (gallons): 200,000.00
Total Service Connections: 2,749.00
Number of Employees:..... 6.00
Treatment Operator Class:2D
Distribution Operator Class:
Customer Rate for 1,000 Gallons:..... 5.17
O/M costs 1997:..... 554,273.00
O/M costs per Service Connection: 206.28
Net Revenue 1997: 13,857.00
Total Water Produced 1997 (gallons):..... 0.00
Water Sold 1997 (gallons): 144,696,000.00
Unaccounted-for Water 1997 (%): 16.04

IRVINE MUNICIPAL UTILITIES

PWSID: 0330205
System Type:..... COMMUNITY
Owner Type:..... MUNICIPAL
Surface Source:..... KENTUCKY RIVER POOL 11
Purchase Source:
Well Source:
Sells Water to:
Treatment Plant Capacity (MGD):..... 2.00
Percent Daily Average Production:..... 51.00
Total Tank Storage Capacity (gallons): 100,000.00
Total Service Connections: 2,235.00
Number of Employees:..... 12.00
Treatment Operator Class:2D
Distribution Operator Class:.....3A
Customer Rate for 1,000 Gallons:..... Not available
O/M costs 1997:..... Not available
O/M costs per Service Connection: Not available
Net Revenue 1997: Not available
Total Water Produced 1997 (gallons):..... Not available
Water Sold 1997 (gallons): Not available
Unaccounted-for Water 1997 (%): Not available

OTHER SYSTEMS

UNITED METHODIST/ALDERGATE CAMP

United Methodist/Aldergate Camp is located in Estill County. The system serves a population of 80 and has 1 service connection. The private, transient, non-community system has treatment capacity of 10,000 gallons per day and storage capacity of 300,000 gallons. The water source is from Springs.

LIFE ADVENTURE CAMP

Life Adventure Camp is located in Estill County. The system serves a population of 143 and has 15 service connections. The private, transient, non-community system has storage capacity of 323,000 gallons.

PRIVATE DOMESTIC SYSTEMS

About 3,100 residents of Estill County rely on private domestic water supplies: 800 on wells and 2,300 on other sources.

In the Kentucky River valley in central Estill County, most drilled wells will produce enough water for a domestic supply at depths of less than 100 feet. In the larger creek valleys throughout the county, some wells will produce enough water for a domestic supply except during dry weather. In the upland areas of Estill County, which encompasses 70% of the county, most drilled wells will not produce enough water for a dependable domestic supply except along drainage lines that may produce enough water except during dry weather.

Throughout the county ground water is hard or very hard and may contain salt or hydrogen sulfide, especially at depths greater than 100 feet. A few springs supply sufficient quantities of water for domestic use.

FAYETTE COUNTY

(Fayette County Water Service Area Map)

- Estimated 1999 population of 230,300--99.7% on public water
- Estimated 2020 population of 238,300--100% on public water
- 300 miles of water lines, with plans for 33 additional miles
- Estimated funding needs for public water 2000-2005--private system
- Estimated funding needs for public water 2006-2020--private system

Fayette County had an estimated population of 230,319 (101,079 households) in 1999 with a projected population of 238,316 (110,871 households) in 2020. Public water is provided to nearly 100 percent of the county's residents. Of the few residents of county not served by public water, about 5 of 8 households rely on private domestic wells and 3 of 8 households rely on other sources. About 160 customers will be added to public water service through new line extensions in 2000-2020.

Estimated Costs - Proposed Projects, 2000-2005

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/Pumps	Total
	Miles	Number	Cost in \$1000	In \$1000	in \$1000	in \$1000	in \$1000	in \$1000
FAYETTE								-
Kentucky-American	25.8	110	Private system					
TOTAL	25.8	110						

Estimated Costs - Proposed Projects, 2006-2020

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
FAYETTE								-
Kentucky American	7.4	52	Private system					-
TOTAL	7.4	52						

PUBLIC WATER SYSTEMS

Fayette county has 2 community water systems: 1 investor-owned, Kentucky-American Water Company; and 1 federal system. Part of southern Fayette County is also served by the Spears Water Company, Inc.

WATER SERVICE AREAS FAYETTE COUNTY Kentucky



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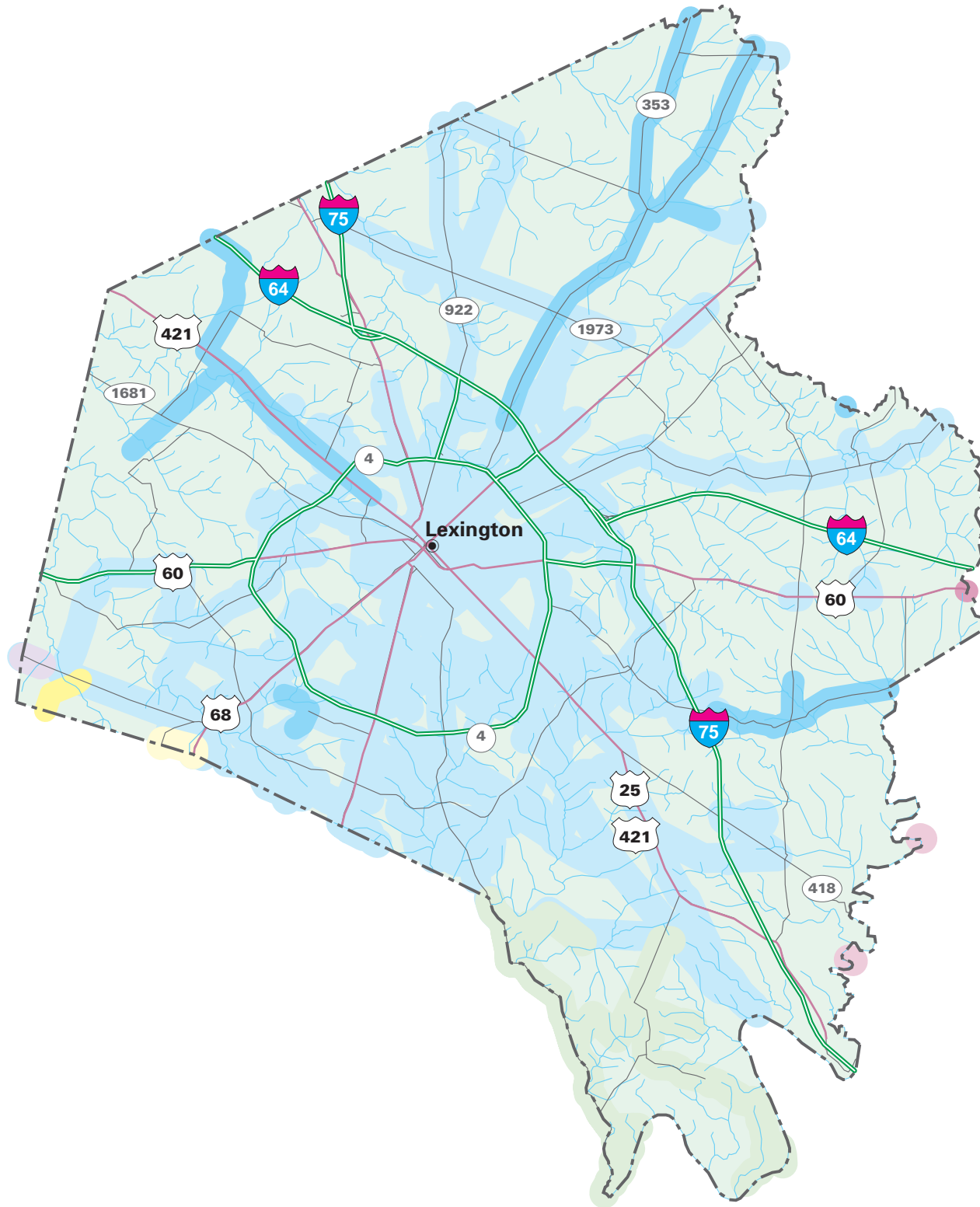
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WATER SERVICE STATUS BY OWNER

EXISTING SERVICE AREA	PROPOSED SERVICE AREA	OWNER
		SPEARS WATER COMPANY INCORPORATED
		SOUTH WOODFORD COUNTY WATER DISTRICT
		SOUTH ELKHORN WATER DISTRICT
		KENTUCKY-AMERICAN WATER COMPANY
		BOONESBORO WATER ASSOCIATION/KY AMERICAN

KENTUCKY-AMERICAN WATER COMPANY

PWSID: 0340250
 System Type:..... COMMUNITY
 Owner Type:..... INVESTOR-OWNED UTILITY
 Surface Source:..... KENTUCKY RIVER POOL 9
 Purchase Source:
 Well Source:
 Sells Water to:
 Treatment Plant Capacity (MGD):..... 25.00
 Percent Daily Average Production:..... 80.00
 Total Tank Storage Capacity (gallons):..... 1,000,000.00
 Total Service Connections: 0.00
 Number of Employees:..... 0.00
 Treatment Operator Class: 4D
 Distribution Operator Class:..... 4A
 Customer Rate for 1,000 Gallons:..... 3.26
 O/M costs 1997:..... 14,598,519.00
 O/M costs per Service Connection: 162.80
 Net Revenue 1997: 6,046,579.00
 Total Water Produced 1997 (gallons):..... 14,418,949,000.00
 Water Sold 1997 (gallons):..... 12,271,173,000.00
 Unaccounted-for Water 1997 (%): 13.38

OTHER SYSTEMS

BLUE GRASS STATION

Blue Grass Station is located in Fayette County. The system serves a population of 800 and has 28 service connections. The federal, community system has storage capacity of 14,902,000 gallons. The water purchased from Kentucky–American Water Company.

PRIVATE DOMESTIC SYSTEMS

About 5,000 residents of Fayette County rely on private domestic water supplies: 3,000 on wells and 2,000 on other sources.

In the North and South Fork of Elkhorn Creeks, Hickman Creek and Boone Creek and their major tributaries, most drilled wells in the valleys will produce enough water for a domestic supply at depths of less than 100 feet. Wells located in the creek valleys and the uplands of the northern and western two-thirds of the county and in the upper reaches of the creek valleys in the eastern third will produce enough water for a domestic supply except during dry weather. In the upland areas of the eastern third of Fayette County, which encompasses only 10% of the county, most drilled wells will not produce enough water for a

dependable domestic supply except along drainage lines which may produce enough water except during dry weather.

Throughout the county ground water is hard or very hard and may contain salt or hydrogen sulfide, especially at depths greater than 100 feet.

FRANKLIN COUNTY

(Franklin County Water Service Area Map)

- Estimated 1999 population of 45,300--96% on public water
- Estimated 2020 population of 46,100--96% on public water
- 265 miles of water lines, with plans for 31 additional miles
- Estimated funding needs for public water 2000-2005--\$7,741,000
- Estimated funding needs for public water 2006-2020--\$11,999,000

Franklin County had an estimated population of 45,321 (19,433 households) in 1999 with a projected population of 46,136 (21,496 households) in 2020. Public water is provided to about 96 percent of the county's residents. In areas of the county not served by public water, about 25 percent of the households rely on private domestic wells and 75 percent of the households rely on other sources. About 85 customers will be added to public water service through new line extensions in 2000-2020.

Estimated Costs - Proposed Projects, 2000-2005

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/Pumps	Total
	Miles	Number	Cost in \$1000	In \$1000	in \$1000	in \$1000	in \$1000	in \$1000
FRANKLIN								-
Elkorn W/D	2.5	4	75					75
Farmdale W/D					404			404
Peaks Mill W/D	2.0	5	76					76
U.S. 60	2.0	21	96					96
N. Shelby	3.0	5	90					90
Frankfort				2,500		2,000	2,500	7,000
TOTAL	9.5	35	337	2,500	404	2,000	2,500	7,741

Estimated Costs - Proposed Projects, 2006-2020

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
FRANKLIN								-
Elkorn W/D								-
Farmdale W/D				562			2,000	2,562
Peaks Mill W/D	14	24	650					650
U.S. 60								-
N. Shelby	7	25	287					287
Frankfort				6,600			1,900	8,500
Total	21	49	937	7,162			3,900	11,999

WATER SERVICE AREAS FRANKLIN COUNTY Kentucky

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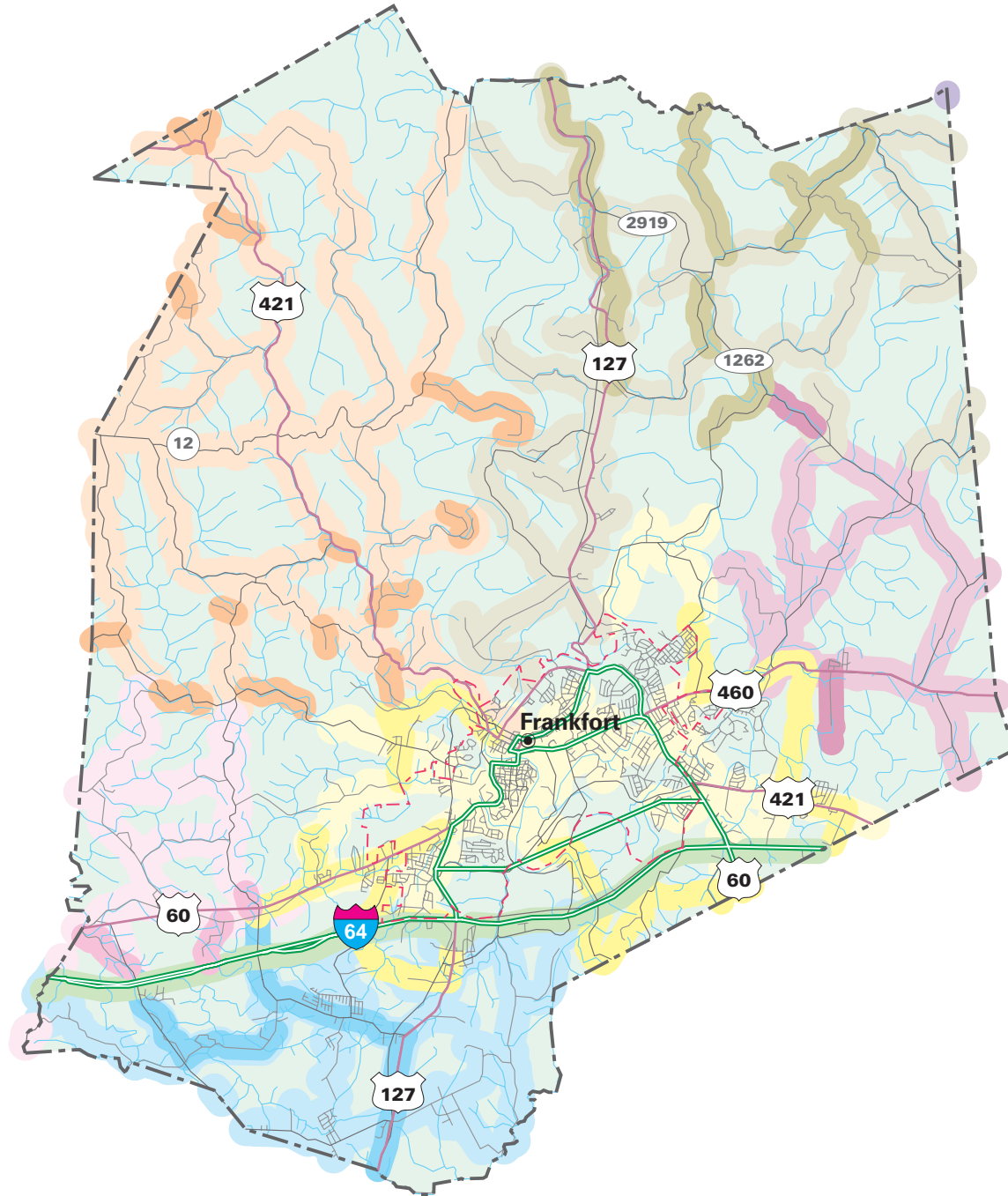
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Data Collection & GIS Input By:
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WATER SERVICE STATUS BY OWNER

EXISTING SERVICE AREA	PROPOSED SERVICE AREA	OWNER
		U S 60 WATER DISTRICT
		PEAKS MILL WATER DISTRICT
		NORTH SHELBY WATER DISTRICT
		KENTUCKY-AMERICAN WATER COMPANY
		GEORGETOWN MUNICIPAL WATER SERVICE
		FRANKFORT ELECTRIC & WATER PLANT BOARD
		FARMDALE WATER DISTRICT
		ELKHORN WATER DISTRICT

PUBLIC WATER SYSTEMS

Franklin County has 5 community water systems: 1 municipal, Frankfort Electric & Water Plant Board; 3 water districts, Elkhorn Water District, Peaks Mill Water District, and Farmdale Water District; and 1 private system. Parts of the county are also served by US 60 Water District and North Shelby Water District.

ELKHORN WATER DEPARTMENT

PWSID: 0980120
 System Type:..... COMMUNITY
 Owner Type: MUNICIPAL
 Surface Source:..... RUSSEL FORK
 Purchase Source:
 Well Source:
 Sells Water to:
 Treatment Plant Capacity: 0.40
 Percent Daily Average Production: 60.00
 Total Tank Storage Capacity: 200,000.00
 Total Service Connections: 585.00
 Number of Employees:..... 4.00
 Treatment Operator Class: 2D
 Distribution Operator Class:..... 2A
 Customer Rate for 1,000 Gallons:..... NA
 O/M costs 1997: NA
 O/M costs per Service Connection: NA
 Net Revenue 1997: NA
 Total Water Produced 1997:..... NA
 Water Sold 1997:..... NA
 Unaccounted-for Water 1997:..... NA

FARMDALE WATER DISTRICT

PWSID: 0370128
 System Type:..... COMMUNITY
 Owner Type: WATER DISTRICT
 Surface Source:
 Purchase Source:
 Well Source:
 Sells Water to:
 Treatment Plant Capacity (MGD):..... 0.00
 Percent Daily Average Production:..... 0.00
 Total Tank Storage Capacity (gallons): 223,000.00
 Total Service Connections: 2,284.00
 Number of Employees:..... 5.00
 Treatment Operator Class: 2D
 Distribution Operator Class:
 Customer Rate for 1,000 Gallons:..... 2.67
 O/M costs 1997: 426,348.92
 O/M costs per Service Connection: 188.73
 Net Revenue 1997: 59,976.98

Total Water Produced 1997 (gallons):..... 0.00
 Water Sold 1997 (gallons):..... 183,751,000.00
 Unaccounted-for Water 1997 (%): 10.33

FRANKFORT ELECTRIC & WATER PLANT BOARD

PWSID: 0370143
 System Type:..... COMMUNITY
 Owner Type:..... MUNICIPAL
 Surface Source:..... KENTUCKY RIVER POOL 4
 Purchase Source:
 Well Source:
 Sells Water to:
 Treatment Plant Capacity (MGD):..... 18.00
 Percent Daily Average Production:..... 43.00
 Total Tank Storage Capacity (gallons): 500,000.00
 Total Service Connections: 14,900.00
 Number of Employees:..... 38.00
 Treatment Operator Class:3D
 Distribution Operator Class:.....4A
 Customer Rate for 1,000 Gallons:..... Not available
 O/M costs 1997:..... Not available
 O/M costs per Service Connection: Not available
 Net Revenue 1997: Not available
 Total Water Produced 1997 (gallons):..... Not available
 Water Sold 1997 (gallons):..... Not available
 Unaccounted-for Water 1997 (%): Not available

PEAKS MILL WATER DISTRICT

PWSID: 0370346
 System Type:..... COMMUNITY
 Owner Type:..... WATER DISTRICT
 Surface Source:
 Purchase Source:
 Well Source:
 Sells Water to:
 Treatment Plant Capacity (MGD):..... 0.00
 Percent Daily Average Production:..... 0.00
 Total Tank Storage Capacity (gallons): 50,000.00
 Total Service Connections: 922.00
 Number of Employees:..... 0.00
 Treatment Operator Class:2D
 Distribution Operator Class:
 Customer Rate for 1,000 Gallons:..... 4.20
 O/M costs 1997:..... 199,248.71
 O/M costs per Service Connection: 220.65
 Net Revenue 1997: 61,888.50
 Total Water Produced 1997 (gallons):..... 0.00
 Water Sold 1997 (gallons):..... 53,914,000.00
 Unaccounted-for Water 1997 (%): 23.24

IMPERIAL MOBILE HOME PARK

Imperial Mobile Home Park is located in Franklin County. The system serves a population of 482 and has 146 service connections. The private, community system purchases water from Frankfort Electric and Water.

PRIVATE DOMESTIC SYSTEMS

About 1,800 residents of Franklin County rely on private domestic water systems: 500 on wells and 1,300 on other sources.

In the valley bottoms of the Kentucky River and Elkhorn Creek and their major tributaries, most drilled wells will produce enough water for a domestic supply at depths of less than 100 feet. Wells located in the smaller creek valleys throughout the county and the uplands of the southeastern part of the county will produce enough water for a domestic supply except during dry weather. In the upland area of the rest of Franklin County, which encompasses 40% of the county, most drilled wells will not produce enough water for a dependable domestic supply except along drainage lines that may produce enough water except during dry weather.

Throughout the county ground water is hard or very hard and may contain salt or hydrogen sulfide, especially at depths greater than 100 feet.

GARRARD COUNTY

(Garrard County Water Service Area Map)

- Estimated 1999 population of 14,200--88% on public water
- Estimated 2020 population of 18,200--91% on public water
- 295 miles of water lines, with plans for 41 additional miles
- Estimated funding needs for public water 2000-2005--\$2,246,000
- Estimated funding needs for public water 2006-2020--\$3,167,000

Garrard County had an estimated population of 14,225 (6,008 households) in 1999 with a projected population of 18,239 (8,401 households) in 2020. Public water is provided to about 88 percent of the county's residents. In areas of the county not served by public water, about 20 percent of the households rely on private domestic wells and 80 percent of the households rely on other sources. About 260 customers will be added to public water service through new line extensions in 2000-2020.

Estimated Costs - Proposed Projects, 2000-2005

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/Pumps	Total
	Miles	Number	Cost in \$1000	In \$1000	in \$1000	in \$1000	in \$1000	in \$1000
GARRARD								-
Lancaster				200	1,800		50	2,050
Garrard Co. W/A	16.5	46	196					196
TOTAL	16.5	46	196	200	1,800		50	2,246

Estimated Costs - Proposed Projects, 2006-2020

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
GARRARD								-
Lancaster				750				750
Garrard Co. W/A	24	215	980	1,037				2,017
Crab Orchard					400			400
Total	24	215	980	1,787	400			3,167

PUBLIC WATER SYSTEMS

Garrard County has 3 community water systems: 1 municipal, Lancaster Water Works; 1 water association, Garrard County Water Association, Inc.; and 1 private system. Parts of the county are also served by Crab Orchard Municipal Water and Western Rockcastle County Water Association.

WATER SERVICE AREAS GARRARD COUNTY Kentucky

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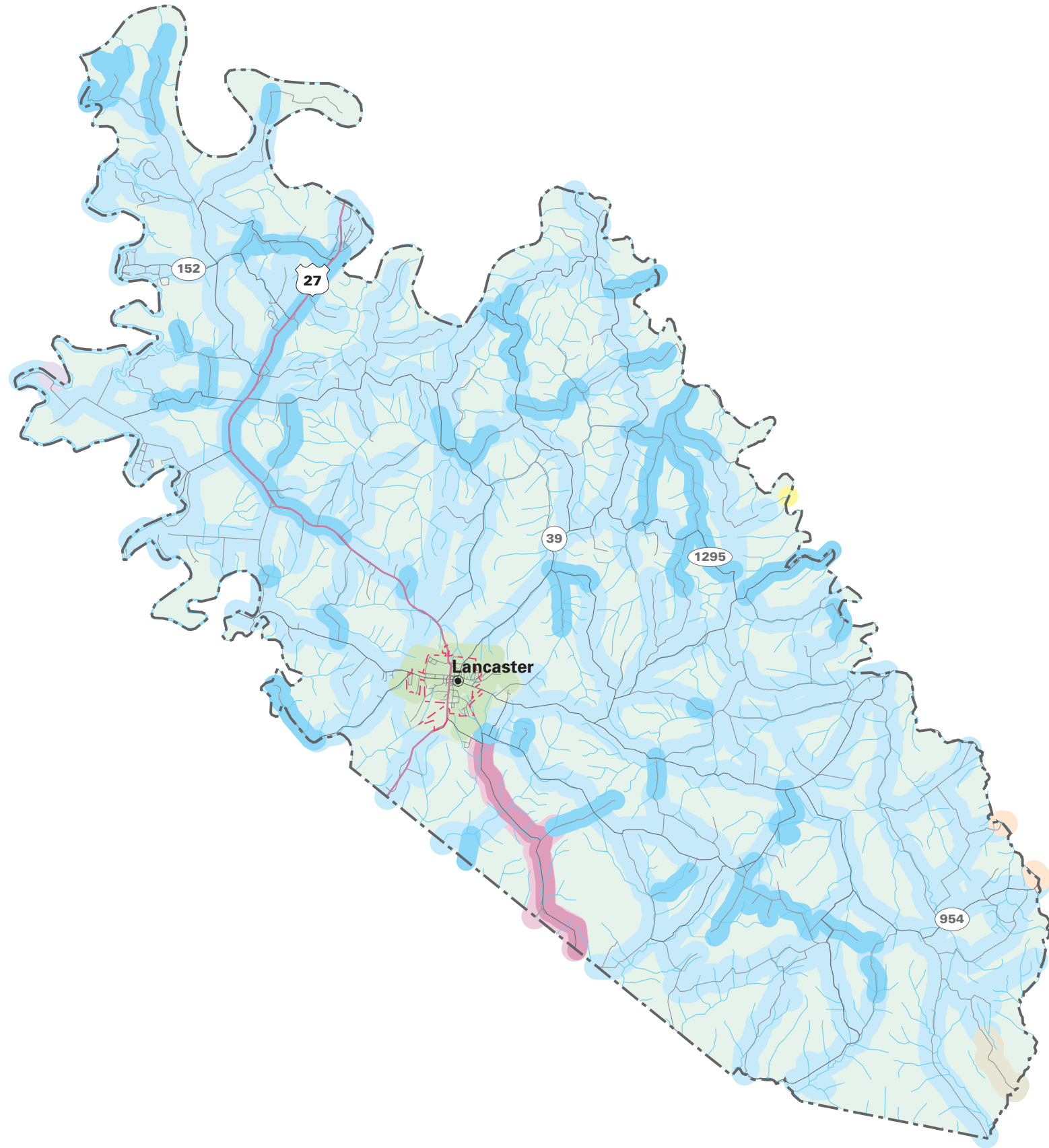
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WATER SERVICE STATUS BY OWNER		
EXISTING SERVICE AREA	PROPOSED SERVICE AREA	
		WESTERN ROCKCASTLE WATER ASSOCIATION
		SOUTHERN MADISON WATER DISTRICT
		LANCASTER MUNICIPAL WATER
		LAKE VILLAGE WATER ASSOCIATION
		KIRKSVILLE WATER ASSOCIATION
		GARRARD COUNTY WATER ASSOCIATION
		CRAB ORCHARD MUNICIPAL WATER

GARRARD COUNTY WATER ASSOCIATION INCORPORATED

PWSID: 0400151
 System Type:..... COMMUNITY
 Owner Type:..... WATER ASSOCIATION
 Surface Source:
 Purchase Source:
 Well Source:
 Sells Water to:
 Treatment Plant Capacity (MGD):..... 0.00
 Percent Daily Average Production:..... 0.00
 Total Tank Storage Capacity (gallons): 55,500.00
 Total Service Connections: 3,646.00
 Number of Employees:..... 5.00
 Treatment Operator Class:2D
 Distribution Operator Class:
 Customer Rate for 1,000 Gallons:..... 4.92
 O/M costs 1997:..... 566,494.00
 O/M costs per Service Connection: 158.68
 Net Revenue 1997: 124,040.00
 Total Water Produced 1997 (gallons):..... 0.00
 Water Sold 1997 (gallons):..... 200,301,950.00
 Unaccounted-for Water 1997 (%): 15.17

LANCASTER MUNICIPAL WATER WORKS

PWSID: 0400233
 System Type:..... COMMUNITY
 Owner Type:..... MUNICIPAL
 Surface Source:..... RESERVOIR
 Purchase Source:
 Well Source:
 Sells Water to:
 Treatment Plant Capacity (MGD):..... 2.16
 Percent Daily Average Production:..... 57.00
 Total Tank Storage Capacity (gallons): 100,000.00
 Total Service Connections: 0.00
 Number of Employees:..... 0.00
 Treatment Operator Class:2D
 Distribution Operator Class:.....3A
 Customer Rate for 1,000 Gallons:..... Not available
 O/M costs 1997:..... Not available
 O/M costs per Service Connection: Not available
 Net Revenue 1997: Not available
 Total Water Produced 1997 (gallons):..... Not available
 Water Sold 1997 (gallons):..... Not available
 Unaccounted-for Water 1997 (%): Not available

OTHER SYSTEMS

DAUGHTER'S PARK SUBDIVISION

Daughter's Park Subdivision is located in Garrard County. The system serves a population of 115 and has 35 service connections. The private, community system has treatment capacity

of 20,000 gallons per day and storage capacity of 462,000 gallons. The water source is from wells.

PRIVATE DOMESTIC SYSTEMS

About 1,600 residents of Garrard County rely on private domestic water supplies: 300 on wells, and 1,300 on other sources.

In the Dix River valley and parts of the Kentucky River valley, most drilled wells will produce enough water for a domestic supply at depths of less than 100 feet. Wells located in the creek valleys of the county will produce enough water for a domestic supply except during dry weather. In the upland areas of Garrard County, which encompasses 75% of the county, most drilled wells will not produce enough water for a dependable domestic supply except along drainage lines that may produce enough water except during dry weather.

Throughout the county ground water is hard or very hard and may contain salt or hydrogen sulfide, especially at depths greater than 100 feet.

HARRISON COUNTY

(Harrison County Water Service Area Map)

- Estimated 1999 population of 17,400--90% on public water
- Estimated 2020 population of 18,800--93% on public water
- 340 miles of water lines, with plans for 67 additional miles
- Estimated funding needs for public water 2000-2005--\$1,899,000
- Estimated funding needs for public water 2006-2020--\$5,508,000

Harrison County had an estimated population of 17,373 (7,038 households) in 1999 with a projected population of 18,826 (8,221 households) in 2020. Public water is provided to about 90 percent of the county's residents. In areas of the county not served by public water, about 10 percent of the households rely on private domestic wells and 90 percent of the households rely on other sources. About 245 customers will be added to public water service through new line extensions in 2000-2020.

Estimated Costs - Proposed Projects, 2000-2005

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/Pumps	Total
	Miles	Number	Cost in \$1000	In \$1000	in \$1000	in \$1000	in \$1000	in \$1000
HARRISON								-
Cynthiana				772				772
Harrison Co. W/A	15.5	68	667	260			200	1,127
TOTAL	15.5	68	667	1,032			200	1,899

Estimated Costs - Proposed Projects, 2006-2020

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
HARRISON								-
Cynthiana				2,000		800	340	3,140
Harrison Co. W/A	50.5	178	2,208				160	2,368
Total	50.5	178	2,208	2,000		800	500	5,508

PUBLIC WATER SYSTEMS

Harrison County has 2 community water systems: 1 municipal, Cynthiana Municipal Water Works; and 1 water association, Harrison County Water Association. Kentucky-American Water Company also serves part of the county.

WATER SERVICE AREAS HARRISON COUNTY Kentucky

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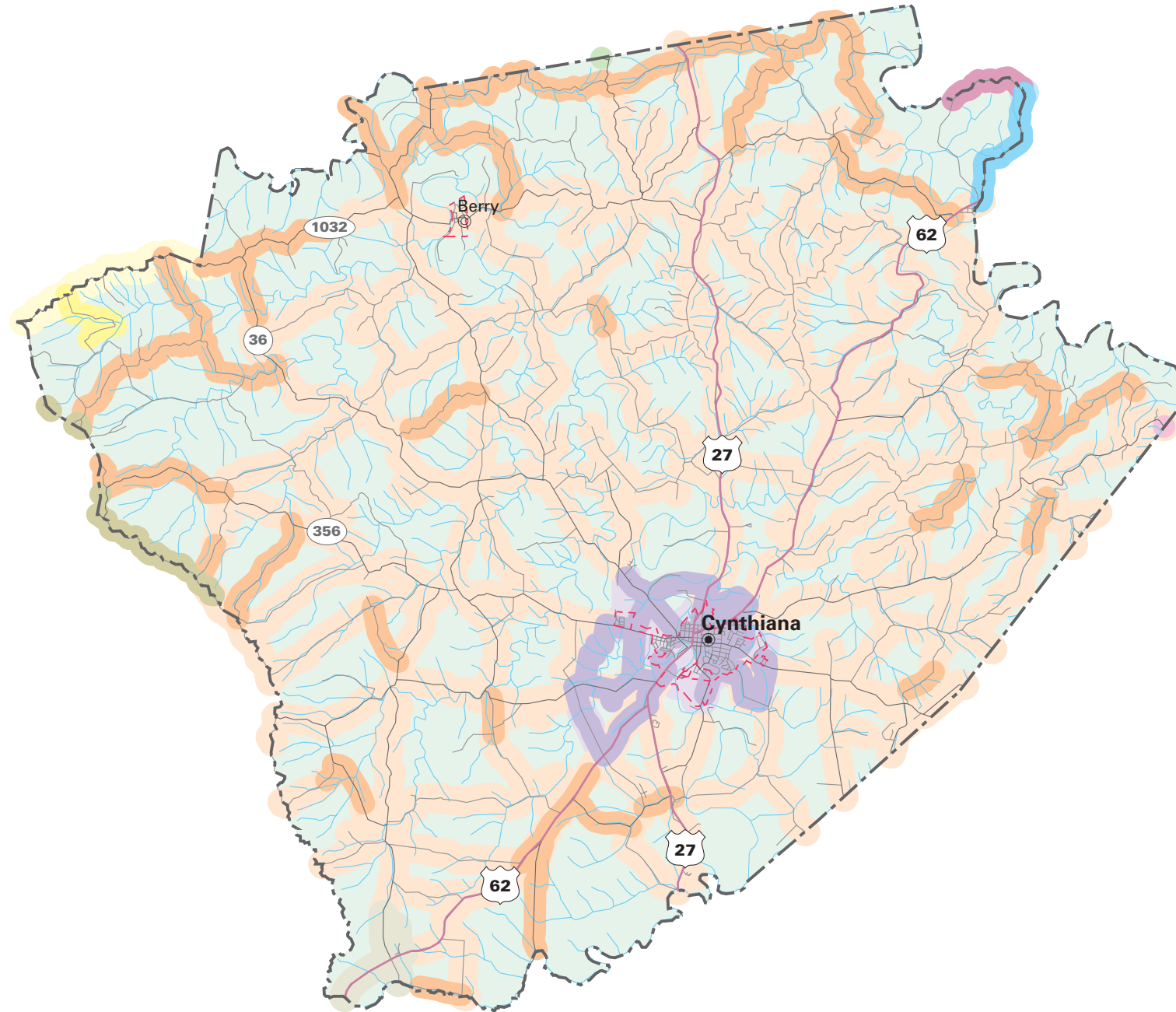
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WATER SERVICE STATUS BY OWNER

EXISTING SERVICE AREA	PROPOSED SERVICE AREA	OWNER
		NICHOLAS COUNTY WATER DISTRICT
		KENTUCKY-AMERICAN WATER COMPANY
		HARRISON COUNTY WATER ASSOCIATION
		EAST PENDLETON WATER DISTRICT
		CYNTHIANA MUNICIPAL WATER WORKS
		CORINTH WATER DISTRICT
		BUFFALO TRAIL WATER ASSOCIATION
		BRACKEN COUNTY WATER DISTRICT

WATER SERVICE AREAS HARRISON COUNTY Kentucky

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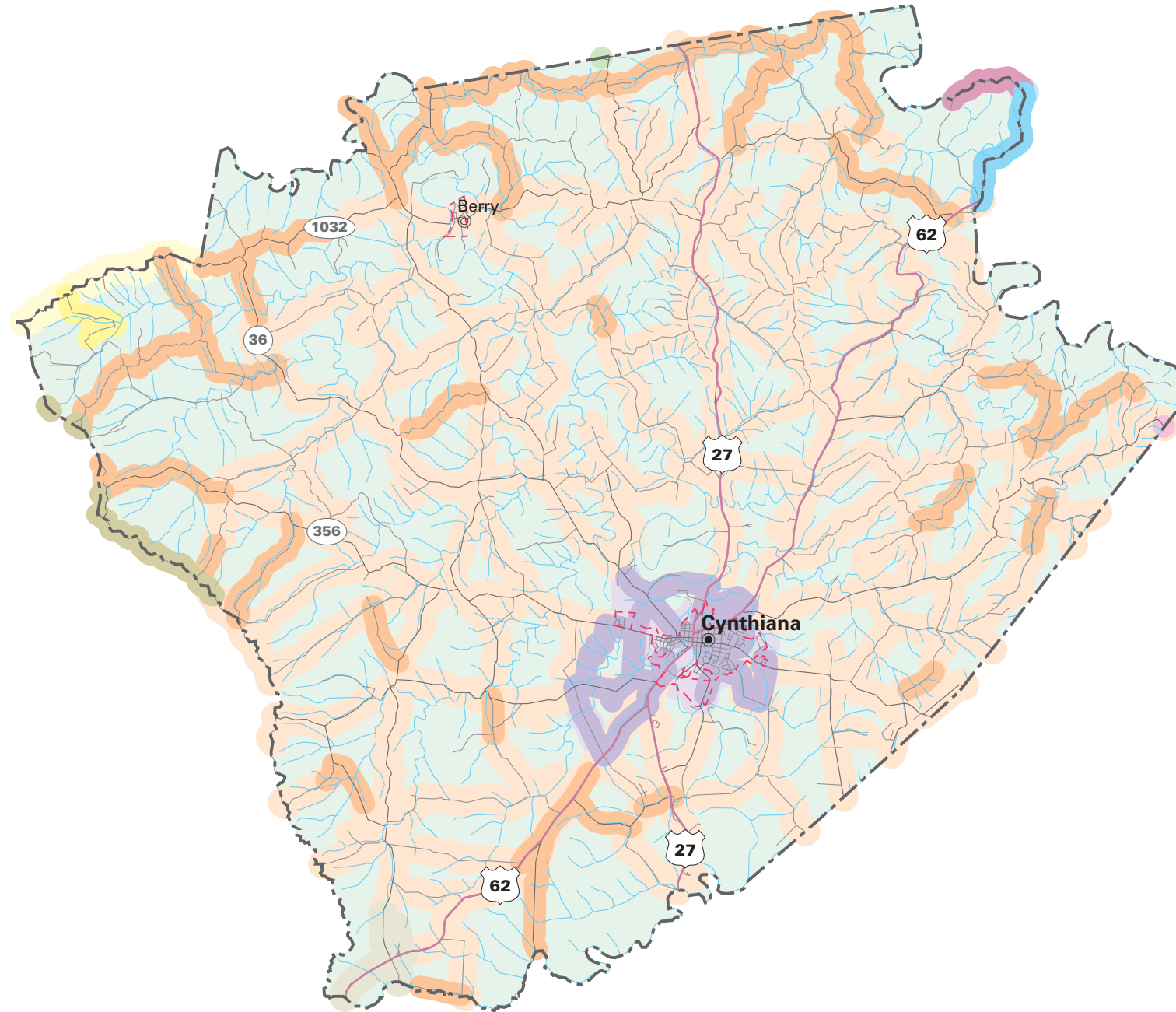
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WATER SERVICE STATUS BY OWNER

EXISTING SERVICE AREA	PROPOSED SERVICE AREA	OWNER
		NICHOLAS COUNTY WATER DISTRICT
		KENTUCKY-AMERICAN WATER COMPANY
		HARRISON COUNTY WATER ASSOCIATION
		EAST PENDLETON WATER DISTRICT
		CYNTHIANA MUNICIPAL WATER WORKS
		CORINTH WATER DISTRICT
		BUFFALO TRAIL WATER ASSOCIATION
		BRACKEN COUNTY WATER DISTRICT

CYNTHIANA MUNICIPAL WATER WORKS

PWSID: 0490096
 System Type:..... COMMUNITY
 Owner Type:..... MUNICIPAL
 Surface Source:..... LICKING RIVER
 Purchase Source:
 Well Source:
 Sells Water to:
 Treatment Plant Capacity (MGD):..... 5.90
 Percent Daily Average Production:..... 33.00
 Total Tank Storage Capacity (gallons): 300,000.00
 Total Service Connections: 2,700.00
 Number of Employees:..... 9.00
 Treatment Operator Class:2D
 Distribution Operator Class:.....4A
 Customer Rate for 1,000 Gallons:..... Not available
 O/M costs 1997:..... Not available
 O/M costs per Service Connection: Not available
 Net Revenue 1997: Not available
 Total Water Produced 1997 (gallons):..... Not available
 Water Sold 1997 (gallons):..... Not available
 Unaccounted-for Water 1997 (%): Not available

HARRISON COUNTY WATER ASSOCIATION

PWSID: 0490179
 System Type:..... COMMUNITY
 Owner Type:..... WATER ASSOCIATION
 Surface Source:
 Purchase Source:
 Well Source:
 Sells Water to:
 Treatment Plant Capacity (MGD):..... 0.00
 Percent Daily Average Production:..... 0.00
 Total Tank Storage Capacity (gallons): 106,000.00
 Total Service Connections: 3,969.00
 Number of Employees:..... 7.00
 Treatment Operator Class:2D
 Distribution Operator Class:
 Customer Rate for 1,000 Gallons:..... 4.95
 O/M costs 1997:..... 733,010.00
 O/M costs per Service Connection: 186.52
 Net Revenue 1997: 139,846.00
 Total Water Produced 1997 (gallons):..... 0.00
 Water Sold 1997 (gallons):..... 231,509,000.00
 Unaccounted-for Water 1997 (%): 16.35

PRIVATE DOMESTIC SYSTEMS

About 1,700 people in Harrison County rely on private domestic water supplies: 200 on wells and 1,500 on other sources.

In the valleys of the Licking River, South Fork of the Licking River, and Silas Creek most drilled wells will produce enough water for a domestic supply at depths of less than 100 feet. Wells located in the larger creek valleys will produce enough water for a domestic supply except during dry weather. In the upland areas of Harrison County, which encompasses 65% of the county, most drilled wells will not produce enough water for a dependable domestic supply except along drainage lines that may produce enough water except during dry weather.

Throughout the county ground water is hard or very hard and may contain salt or hydrogen sulfide, especially at depths greater than 100 feet.

JESSAMINE COUNTY

(Jessamine County Water Service Area Map)

- Estimated 1999 population of 36,400--90% on public water
- Estimated 2020 population of 46,500--92% on public water
- 260 miles of water lines, with plans for 56 additional miles
- Estimated funding needs for public water 2000-2005--\$7,798,000
- Estimated funding needs for public water 2006-2020--\$9,707,000

Jessamine County had an estimated population of 36,420 (14,103 households) in 1999 with a projected population of 46,535 (19,709 households) in 2020. Public water is provided to about 90 percent of the county's residents. In areas of the county not served by public water, about 20 percent of the households rely on private domestic wells and 80 percent of the households rely on other sources. About 360 customers will be added to public water service through new line extensions in 2000-2020.

Estimated Costs - Proposed Projects, 2000-2005

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/Pumps	Total
	Miles	Number	Cost in \$1000	In \$1000	in \$1000	in \$1000	in \$1000	in \$1000
JESSAMINE								-
Wilmore				325	200	2,100		2,625
Jessamine-South Elkhorn W/D	39.0	247	1,978				800	2,778
Nicholasville				1,066				1,066
Jessamine Co. W/D #1				179			1,150	1,329
TOTAL	39.0	247	1,978	1,570	200	2,100	1,950	7,798

Estimated Costs - Proposed Projects, 2006-2020

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
JESSAMINE								-
Wilmore				800				800
Jessamine-South Elkhorn W/D	17	57	744					744
Nicholasville				1,313		5,500	1,100	7,913
Jessamine Co. W/D #1				250				250
Total	17	57	744	2,363		5,500	1,100	9,707

PUBLIC WATER SYSTEMS

Jessamine County is served by 5 community water systems: 2 municipal, Wilmore Water Works and Nicholasville Water Department; 2 water districts, Jessamine County Water

WATER SERVICE AREAS

JESSAMINE COUNTY

Kentucky

Prepared By:
Water Resource Development Commission

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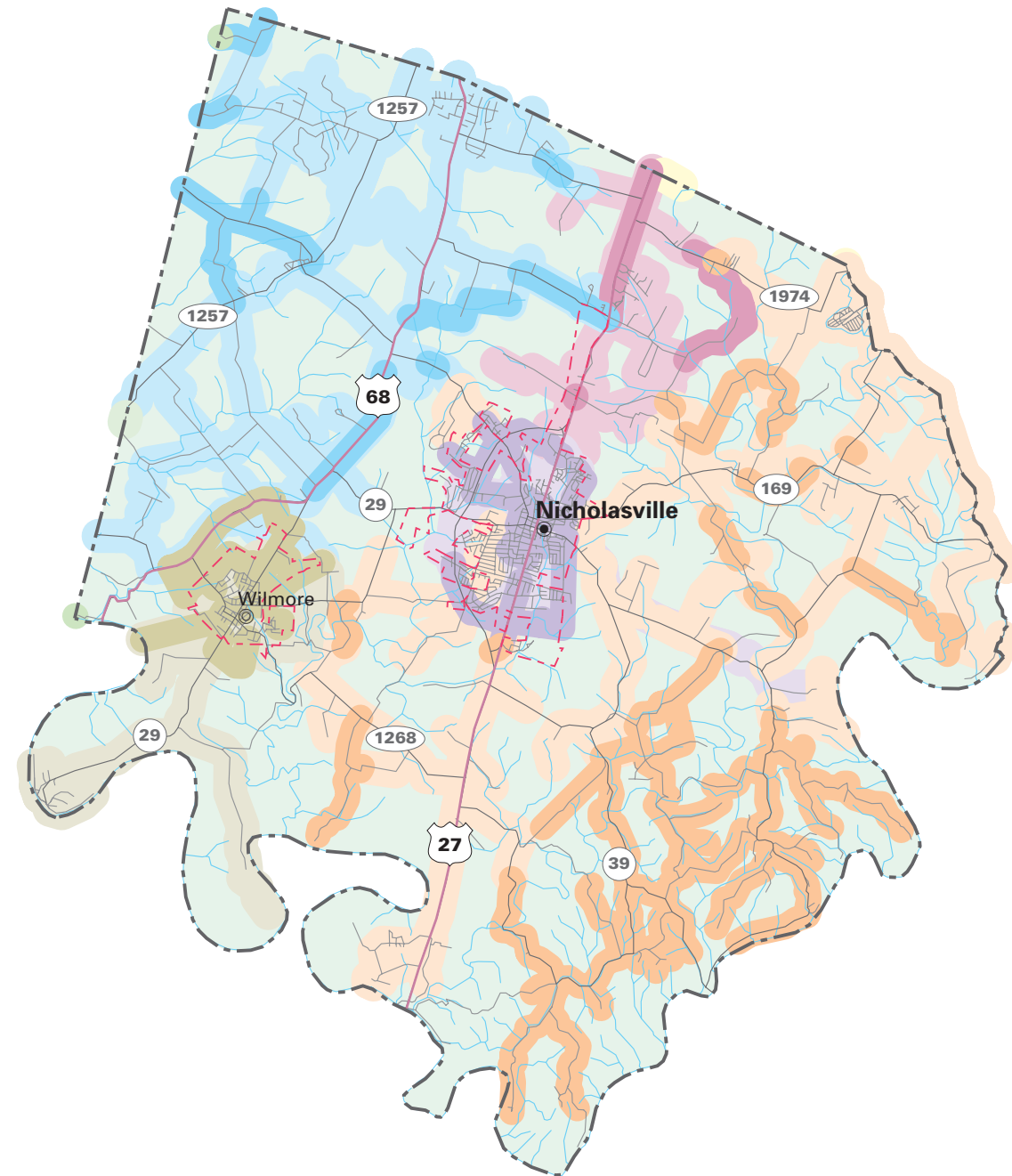
Bob Arnold, Chairman
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 Kent Anness & Kim Prough

Data Collection & GIS Input By:
 Kentucky Area Development Districts



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WATER SERVICE STATUS BY OWNER

EXISTING SERVICE AREA	PROPOSED SERVICE AREA	OWNER
		WILMORE MUNICIPAL WATER
		SPEARS WATER COMPANY
		SOUTH WOODFORD WATER DISTRICT
		NICHOLASVILLE MUNICIPAL WATER
		KENTUCKY-AMERICAN WATER COMPANY
		JESSAMINE-SOUTH ELKHORN WATER DISTRICT
		JESSAMINE COUNTY #1 WATER DISTRICT

District #1 and Jessamine-South Elkhorn Water District; and 1 private, the Spears Water Company.

WILMORE MUNICIPAL WATER WORKS

PWSID: 0570010
 System Type:..... COMMUNITY
 Owner Type:..... MUNICIPAL
 Surface Source:..... KENTUCKY RIVER POOL 6
 Purchase Source:
 Well Source:
 Sells Water to:
 Treatment Plant Capacity (MGD):..... 1.00
 Percent Daily Average Production:..... 85.00
 Total Tank Storage Capacity (gallons):..... 500,000.00
 Total Service Connections: 1,724.00
 Number of Employees:..... 0.00
 Treatment Operator Class:2D
 Distribution Operator Class:.....3A
 Customer Rate for 1,000 Gallons:..... Not available
 O/M costs 1997:..... Not available
 O/M costs per Service Connection: Not available
 Net Revenue 1997:..... Not available
 Total Water Produced 1997 (gallons):..... Not available
 Water Sold 1997 (gallons):..... Not available
 Unaccounted-for Water 1997 (%): Not available

JESSAMINE COUNTY WATER DISTRICT #1

PWSID: 0570214
 System Type:..... COMMUNITY
 Owner Type:..... WATER DISTRICT
 Surface Source:
 Purchase Source:
 Well Source:
 Sells Water to:
 Treatment Plant Capacity (MGD):..... 0.00
 Percent Daily Average Production:..... 0.00
 Total Tank Storage Capacity (gallons):..... 250,000.00
 Total Service Connections: 802.00
 Number of Employees:..... 0.00
 Treatment Operator Class:2D
 Distribution Operator Class:
 Customer Rate for 1,000 Gallons:..... 4.14
 O/M costs 1997:..... 342,668.00
 O/M costs per Service Connection: 427.27
 Net Revenue 1997:..... 34,808.00
 Total Water Produced 1997 (gallons):..... 0.00
 Water Sold 1997 (gallons):..... 104,921,000.00
 Unaccounted-for Water 1997 (%): 8.99

JESSAMINE-SOUTH ELKHORN WATER DISTRICT

PWSID: 0570249
System Type:..... COMMUNITY
Owner Type:..... WATER DISTRICT
Surface Source:
Purchase Source:
Well Source:
Sells Water to:
Treatment Plant Capacity (MGD):..... 0.00
Percent Daily Average Production:..... 0.00
Total Tank Storage Capacity (gallons):..... 100,000.00
Total Service Connections: 14,690.00
Number of Employees:..... 10.00
Treatment Operator Class:2D
Distribution Operator Class:
Customer Rate for 1,000 Gallons:..... 5.39
O/M costs 1997:..... 514,090.00
O/M costs per Service Connection: 349.96
Net Revenue 1997: 73,050.00
Total Water Produced 1997 (gallons):..... 0.00
Water Sold 1997 (gallons):..... 134,246,000.00
Unaccounted-for Water 1997 (%): 11.30

NICHOLASVILLE MUNICIPAL WATER DEPARTMENT

PWSID: 0570315
System Type:..... COMMUNITY
Owner Type:..... MUNICIPAL
Surface Source:..... KENTUCKY RIVER POOL 8
Purchase Source:
Well Source:
Sells Water to:
Treatment Plant Capacity (MGD):..... 6.00
Percent Daily Average Production:..... 47.00
Total Tank Storage Capacity (gallons):..... 750,000.00
Total Service Connections: 6,492.00
Number of Employees:..... 0.00
Treatment Operator Class:3D
Distribution Operator Class:.....4A
Customer Rate for 1,000 Gallons:..... Not available
O/M costs 1997:..... Not available
O/M costs per Service Connection: Not available
Net Revenue 1997: Not available
Total Water Produced 1997 (gallons):..... Not available
Water Sold 1997 (gallons):..... Not available
Unaccounted-for Water 1997 (%): Not available

SPEARS WATER COMPANY INCORPORATED

PWSID: 0570414
System Type:..... COMMUNITY
Owner Type:..... PRIVATE

Surface Source:
Purchase Source:
Well Source:
Sells Water to:

Treatment Plant Capacity (MGD):.....	0.00
Percent Daily Average Production:.....	0.00
Total Tank Storage Capacity (gallons):.....	139,000.00
Total Service Connections:	2,477.00
Number of Employees:.....	5.00
Treatment Operator Class:	2D
Distribution Operator Class:	
Customer Rate for 1,000 Gallons:.....	4.18
O/M costs 1997:.....	774,740.00
O/M costs per Service Connection:	318.04
Net Revenue 1997:	65,355.00
Total Water Produced 1997 (gallons):.....	0.00
Water Sold 1997 (gallons):.....	187,323,290.00
Unaccounted-for Water 1997 (%):	6.36

PRIVATE DOMESTIC SYSTEMS

About 3,500 residents of Jessamine County rely on private domestic water supplies: 700 on wells, and 2,800 on other sources.

In the Kentucky River, South Fork of Elkhorn Creeks, Hickman Creek and Jessamine Creek and their major tributaries, most drilled wells in the valleys will produce enough water for a domestic supply at depths of less than 100 feet. Wells located in the creek valleys and the uplands of the northern two-thirds of the county will produce enough water for a domestic supply except during dry weather. In the southern thirds of Jessamine County, which encompasses only 15% of the county, most drilled wells will not produce enough water for a dependable domestic supply except along drainage lines which may produce enough water except during dry weather.

Throughout the county ground water is hard or very hard and may contain salt or hydrogen sulfide, especially at depths greater than 100 feet.

LINCOLN COUNTY

(Lincoln County Water Service Area Map)

- Estimated 1999 population of 22,500--85% on public water
- Estimated 2020 population of 26,100--88% on public water
- 510 miles of water lines, with plans for 90 additional miles
- Estimated funding needs for public water 2000-2005--\$6,155,000
- Estimated funding needs for public water 2006-2020--\$3,935,000

Lincoln County had an estimated population of 22,511 (9,109 households) in 1999 with a projected population of 26,059 (11,410 households) in 2020. Public water is provided to about 85 percent of the county's residents. In areas of the county not served by public water, about 44 percent of the households rely on private domestic wells and 56 percent of the households rely on other sources. About 350 customers will be added to public water service through new line extensions in 2000-2020.

Estimated Costs - Proposed Projects, 2000-2005

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/Pumps	Total
	Miles	Number	Cost in \$1000	In \$1000	in \$1000	in \$1000	in \$1000	in \$1000
LINCOLN								-
Stanford				920		2,800		3,720
Crab Orchard				110				110
Hustonville				310				310
Eubank	8.0	55	320					320
McKinney	31.5	115	1,445					1445
W. Rockcastle W/A	5.0	18	250					250
TOTAL	44.5	188	2,015	1,340		2,800	0	6,155

Estimated Costs - Proposed Projects, 2006-2020

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
LINCOLN								-
Stanford				1,100			460	1,560
Crab Orchard				170				170
Hustonville				35				35
Eubank	20	96	900					900
McKinney	15	31	715					715
W. Rockcastle W/A	9	21	480					480
Garrard Co. W/A	1.5	15	75					75
Total	45.5	163	2,170	1,305			460	3,935

WATER SERVICE AREAS LINCOLN COUNTY Kentucky

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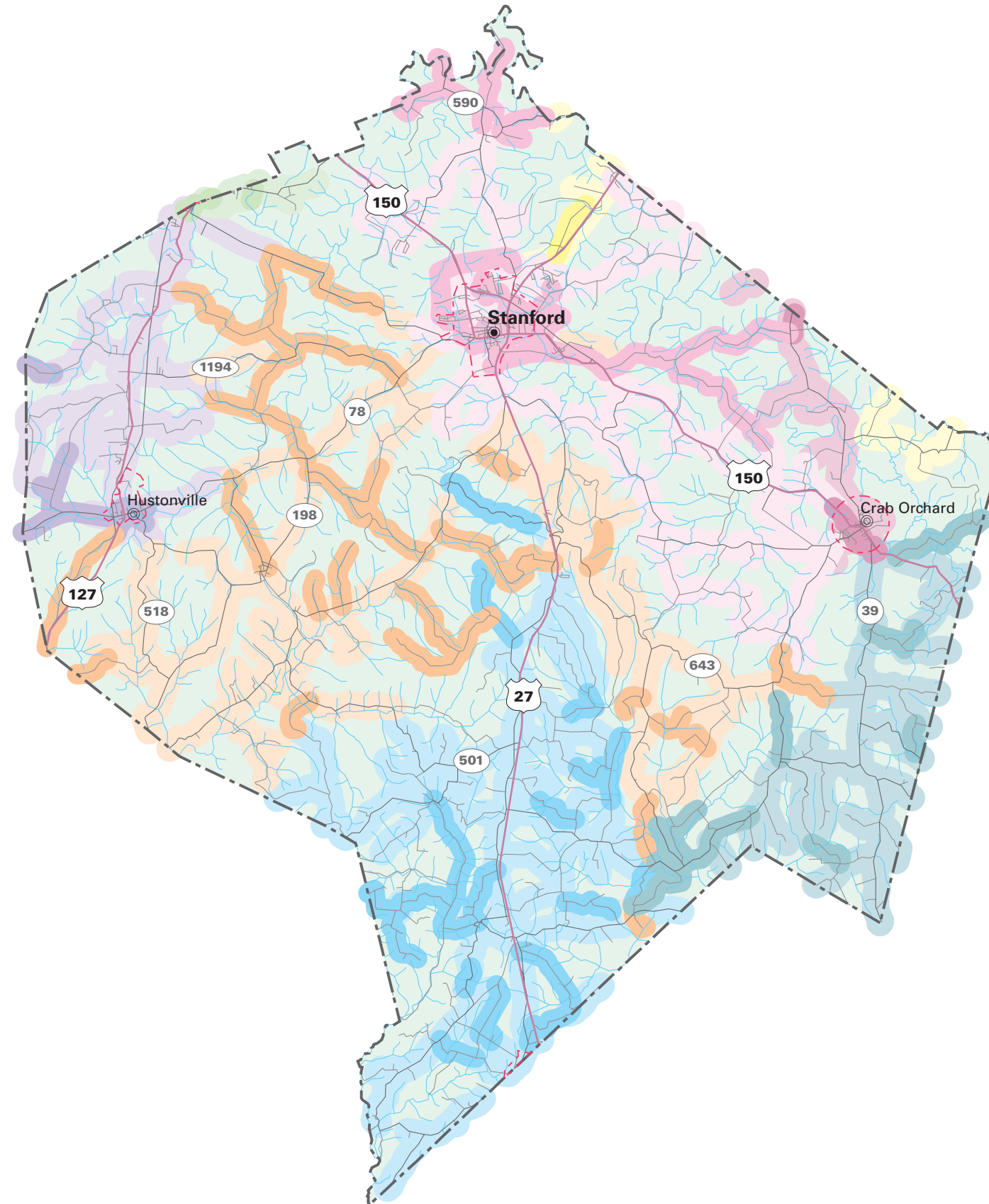
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WATER SERVICE STATUS BY OWNER

EXISTING SERVICE AREA	PROPOSED SERVICE AREA	OWNER
		WESTERN ROCKCASTLE WATER ASSOCIATION
		STANFORD WATER WORKS
		SOUTHEASTERN WATER ASSOCIATION/NELSON VAL
		MCKINNEY WATER DISTRICT
		JUNCTION CITY WATER SYSTEM
		HUSTONVILLE WATER WORKS
		GARRARD COUNTY WATER ASSOCIATION INCORPORATED
		EUBANK WATER DISTRICT
		CRAB ORCHARD WATER DISTRICT

PUBLIC WATER SYSTEMS

Lincoln County has 4 community water systems: 2 municipal, Hustonville Water Works and Stanford Water Works; 2 water districts, Crab Orchard Water District and McKinney Water District. Parts of the county may also be served by Eubank Municipal Water, Garrard County Water Association, Junction City Municipal Water, Southeastern Water Association, and Western Rockcastle County Water Association.

CRAB ORCHARD MUNICIPAL WATER DISTRICT

PWSID: 0690089
 System Type:..... COMMUNITY
 Owner Type:..... WATER DISTRICT
 Surface Source:
 Purchase Source:
 Well Source:
 Sells Water to:
 Treatment Plant Capacity (MGD):..... 0.00
 Percent Daily Average Production:..... 0.00
 Total Tank Storage Capacity (gallons): 100,000.00
 Total Service Connections: 553.00
 Number of Employees:..... 2.00
 Treatment Operator Class:2D
 Distribution Operator Class:
 Customer Rate for 1,000 Gallons:..... Not available
 O/M costs 1997:..... Not available
 O/M costs per Service Connection: Not available
 Net Revenue 1997:..... Not available
 Total Water Produced 1997 (gallons):..... Not available
 Water Sold 1997 (gallons):..... Not available
 Unaccounted-for Water 1997 (%): Not available

HUSTONVILLE MUNICIPAL WATER WORKS

PWSID: 0690203
 System Type:..... COMMUNITY
 Owner Type:..... MUNICIPAL
 Surface Source:
 Purchase Source:
 Well Source:
 Sells Water to:
 Treatment Plant Capacity (MGD):..... 0.00
 Percent Daily Average Production:..... 0.00
 Total Tank Storage Capacity (gallons): 157,000.00
 Total Service Connections: 1,300.00
 Number of Employees:..... 2.00
 Treatment Operator Class:2D
 Distribution Operator Class:
 Customer Rate for 1,000 Gallons:..... Not available
 O/M costs 1997:..... Not available

O/M costs per Service Connection: Not available
 Net Revenue 1997: Not available
 Total Water Produced 1997 (gallons): Not available
 Water Sold 1997 (gallons): Not available
 Unaccounted-for Water 1997 (%): Not available

MCKINNEY WATER DISTRICT

PWSID: 0690278
 System Type: COMMUNITY
 Owner Type: WATER DISTRICT
 Surface Source:
 Purchase Source:
 Well Source:
 Sells Water to:
 Treatment Plant Capacity (MGD): 0.00
 Percent Daily Average Production: 0.00
 Total Tank Storage Capacity (gallons): 100,000.00
 Total Service Connections: 1,398.00
 Number of Employees: 3.00
 Treatment Operator Class: 2D
 Distribution Operator Class:
 Customer Rate for 1,000 Gallons: 5.14
 O/M costs 1997: 307,660.00
 O/M costs per Service Connection: 226.55
 Net Revenue 1997: 21,426.00
 Total Water Produced 1997 (gallons): 0.00
 Water Sold 1997 (gallons): 69,675,000.00
 Unaccounted-for Water 1997 (%): 14.17

STANFORD MUNICIPAL WATER WORKS

PWSID: 0690417
 System Type: COMMUNITY
 Owner Type: MUNICIPAL
 Surface Source: TWO CITY RESERVOIR
 Purchase Source:
 Well Source:
 Sells Water to:
 Treatment Plant Capacity (MGD): 0.94
 Percent Daily Average Production: 90.00
 Total Tank Storage Capacity (gallons): 300,000.00
 Total Service Connections: 2,273.00
 Number of Employees: 0.00
 Treatment Operator Class: 2D
 Distribution Operator Class: 3A
 Customer Rate for 1,000 Gallons: Not available
 O/M costs 1997: Not available
 O/M costs per Service Connection: Not available
 Net Revenue 1997: Not available
 Total Water Produced 1997 (gallons): Not available
 Water Sold 1997 (gallons): Not available
 Unaccounted-for Water 1997 (%): Not available

PRIVATE DOMESTIC SYSTEMS

About 3,300 residents of Lincoln County rely on private domestic water supplies: 1,450 on wells, and 1,850 on other sources.

In the northern end of Lincoln County, north of highway 150, in the valleys of Hanging Fork of the Dix River and the Dix River, most drilled wells will produce enough water for a domestic supply at depths of less than 100 feet. In most of Lincoln County wells located in the creek and river valleys will produce enough water for a domestic supply except during dry weather. In the upland areas of Lincoln County, which encompasses 80% of the county, most drilled wells will not produce enough water for a dependable domestic supply except along drainage lines that may produce enough water except during dry weather.

Throughout the county ground water is hard or very hard and may contain salt or hydrogen sulfide, especially at depths greater than 100 feet.

MADISON COUNTY

(Madison County Water Service Area Map)

- Estimated 1999 population of 60,500--92% on public water
- Estimated 2020 population of 72,800--93% on public water
- 595 miles of water lines, with plans for 96 additional miles
- Estimated funding needs for public water 2000-2005--\$6,650,000
- Estimated funding needs for public water 2006-2020--\$43,605,000

Madison County had an estimated population of 60,543 (24,869 households) in 1999 with a projected population of 72,809 (33,067 households) in 2020. Public water is provided to about 92 percent of the county's residents. In areas of the county not served by public water, about 20 percent of the households rely on private domestic wells and 80 percent of the households rely on other sources. About 460 customers will be added to public water service through new line extensions in 2000-2020.

Estimated Costs - Proposed Projects, 2000-2005

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/Pumps	Total
	Miles	Number	Cost in \$1000	In \$1000	in \$1000	in \$1000	in \$1000	in \$1000
MADISON								-
Richmond				500		2,300	1,300	4,100
Berea				350				350
Garrard Co. W/A	2.5	19	110					110
Kirksville	8.5	33	450				550	1,000
Whitehall W/D	4.0	34	120	150			250	520
Waco W/D	5.0	14	200				250	450
S. Madison W/D	3.0	9	120					120
TOTAL	23.0	109	1,000	1,000		2,300	2,350	6,650

Estimated Costs - Proposed Projects, 2006-2020

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
MADISON								-
Richmond				6,050		16,400	6,000	28,450
Berea				2,800	3,000	2,200	1,150	9,150
Garrard Co. W/A	2	19	85					85
Kirksville	24.5	108	1,400					1,400
Whitehall W/D	6	43	200	1,220				1,420
Waco W/D	28	119	1,200					1,200
S. Madison W/D	3	19	100	1,400				1,500
Kingston-Terrill W/D	9	42	400					400
Total	72.5	350	3,385	11,470	3,000	18,600	7,150	43,605

WATER SERVICE AREAS MADISON COUNTY Kentucky

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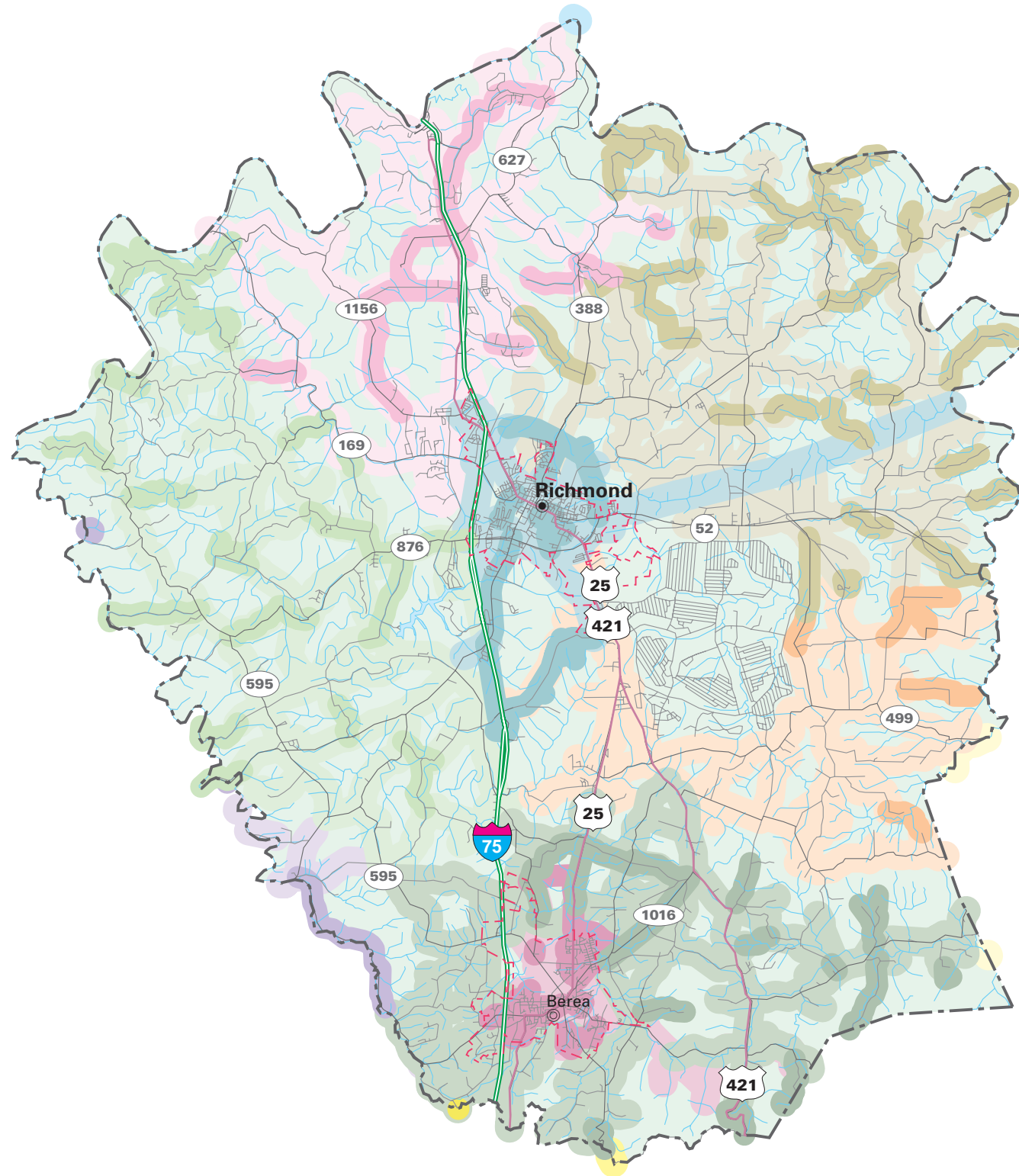
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WATER SERVICE STATUS BY OWNER

EXISTING SERVICE AREA	PROPOSED SERVICE AREA	OWNER
		WESTERN ROCKCASTLE WATER ASSOCIATION
		SOUTHERN MADISON WATER DISTRICT
		RICHMOND WATER/GAS/SEWER WORKS
		MADISON COUNTY UTILITIES/WHITE HALL
		MADISON COUNTY UTILITIES/WACO
		MADISON COUNTY UTILITIES/KINGSTON-TERRILL
		KIRKSVILLE WATER ASSOCIATION
		GARRARD COUNTY WATER ASSOCIATION INCORPORATED
		ESTILL COUNTY WATER DISTRICT
		BOONESBORO WATER ASSOCIATION/KY AMERICAN
		BEREA COLLEGE WATER DEPARTMENT

PUBLIC WATER SYSTEMS

Madison County has 7 public water systems: 5 community -- 1 municipal, Richmond Water, Gas, & Sewer Works; 2 water districts, Madison County Utility District (Kingston-Terrill, Waco, White Hall) and Southern Madison Water District; 1 water association, Kirksville Water Association; 1 private, Berea College Water Department; and 2 non-community systems. Part of the county is also served by the Garrard County Water Association.

BEREA COLLEGE WATER DEPARTMENT

PWSID: 0760030
 System Type:..... COMMUNITY
 Owner Type:..... PRIVATE
 Surface Source:..... COWBELL LAKE
 Purchase Source:
 Well Source:
 Sells Water to:
 Treatment Plant Capacity (MGD):..... 4.00
 Percent Daily Average Production:..... 61.00
 Total Tank Storage Capacity (gallons):..... 500,000.00
 Total Service Connections: 461.00
 Number of Employees:..... 0.00
 Treatment Operator Class:2D
 Distribution Operator Class:.....4A
 Customer Rate for 1,000 Gallons:..... 5.03
 O/M costs 1997:..... 857,313.20
 O/M costs per Service Connection: 243.69
 Net Revenue 1997:..... 322,370.60
 Total Water Produced 1997 (gallons):..... 784,102,000.00
 Water Sold 1997 (gallons):..... 636,280,802.00
 Unaccounted-for Water 1997 (%): 14.24

MADISON COUNTY UTILITIES/KINGSTON-TERRILL

PWSID: 0760224
 System Type:..... COMMUNITY
 Owner Type:..... WATER DISTRICT
 Surface Source:
 Purchase Source:
 Well Source:
 Sells Water to:
 Treatment Plant Capacity (MGD):..... 0.00
 Percent Daily Average Production:..... 0.00
 Total Tank Storage Capacity (gallons):..... 100,000.00
 Total Service Connections: 0.00
 Number of Employees:..... 0.00
 Treatment Operator Class:2D
 Distribution Operator Class:
 Customer Rate for 1,000 Gallons:..... Not available
 O/M costs 1997:..... Not available

O/M costs per Service Connection: Not available
 Net Revenue 1997: Not available
 Total Water Produced 1997 (gallons): Not available
 Water Sold 1997 (gallons): Not available
 Unaccounted-for Water 1997 (%): Not available

RICHMOND MUNICIPAL UTILITIES

PWSID: 0760370
 System Type: COMMUNITY
 Owner Type: MUNICIPAL
 Surface Source: KENTUCKY RIVER POOL 11
 Purchase Source:
 Well Source:
 Sells Water to:
 Treatment Plant Capacity (MGD): 9.00
 Percent Daily Average Production: 65.00
 Total Tank Storage Capacity (gallons): 500,000.00
 Total Service Connections: 8,200.00
 Number of Employees: 24.00
 Treatment Operator Class: 3D
 Distribution Operator Class: 4A
 Customer Rate for 1,000 Gallons: Not available
 O/M costs 1997: Not available
 O/M costs per Service Connection: Not available
 Net Revenue 1997: Not available
 Total Water Produced 1997 (gallons): Not available
 Water Sold 1997 (gallons): Not available
 Unaccounted-for Water 1997 (%): Not available

SOUTHERN MADISON WATER DISTRICT

PWSID: 0760407
 System Type: COMMUNITY
 Owner Type: WATER DISTRICT
 Surface Source:
 Purchase Source:
 Well Source:
 Sells Water to:
 Treatment Plant Capacity (MGD): 0.00
 Percent Daily Average Production: 0.00
 Total Tank Storage Capacity (gallons): 80,000.00
 Total Service Connections: 3,119.00
 Number of Employees: 7.00
 Treatment Operator Class: 2D
 Distribution Operator Class:
 Customer Rate for 1,000 Gallons: 5.62
 O/M costs 1997: 736,182.00
 O/M costs per Service Connection: 244.09
 Net Revenue 1997: 62,777.00
 Total Water Produced 1997 (gallons): 0.00
 Water Sold 1997 (gallons): 171,053,000.00
 Unaccounted-for Water 1997 (%): 24.04

MADISON COUNTY UTILITIES/WACO

PWSID: 0760441
System Type:..... COMMUNITY
Owner Type:..... WATER DISTRICT
Surface Source:
Purchase Source:
Well Source:
Sells Water to:
Treatment Plant Capacity (MGD):..... 0.00
Percent Daily Average Production:..... 0.00
Total Tank Storage Capacity (gallons): 200,000.00
Total Service Connections: 0.00
Number of Employees:..... 0.00
Treatment Operator Class:2D
Distribution Operator Class:
Customer Rate for 1,000 Gallons:..... Not available
O/M costs 1997:..... Not available
O/M costs per Service Connection: Not available
Net Revenue 1997: Not available
Total Water Produced 1997 (gallons):..... Not available
Water Sold 1997 (gallons):..... Not available
Unaccounted-for Water 1997 (%): Not available

MADISON COUNTY UTILITIES/WHITE HALL

PWSID: 0760464
System Type:..... COMMUNITY
Owner Type:..... WATER DISTRICT
Surface Source:
Purchase Source:
Well Source:
Sells Water to:
Treatment Plant Capacity (MGD):..... 0.00
Percent Daily Average Production:..... 0.00
Total Tank Storage Capacity (gallons): 300,000.00
Total Service Connections: 0.00
Number of Employees:..... 0.00
Treatment Operator Class:2D
Distribution Operator Class:
Customer Rate for 1,000 Gallons:..... Not available
O/M costs 1997:..... Not available
O/M costs per Service Connection: Not available
Net Revenue 1997: Not available
Total Water Produced 1997 (gallons):..... Not available
Water Sold 1997 (gallons):..... Not available
Unaccounted-for Water 1997 (%): Not available

KIRKSVILLE WATER ASSOCIATION

PWSID: 0760672
System Type:..... COMMUNITY
Owner Type:..... WATER ASSOCIATION
Surface Source:

Purchase Source:
 Well Source:
 Sells Water to:

Treatment Plant Capacity (MGD):.....	0.00
Percent Daily Average Production:.....	0.00
Total Tank Storage Capacity (gallons):.....	125,000.00
Total Service Connections:	1,260.00
Number of Employees:.....	1.00
Treatment Operator Class:	2D
Distribution Operator Class:	
Customer Rate for 1,000 Gallons:.....	5.50
O/M costs 1997:.....	322,776.00
O/M costs per Service Connection:	242.87
Net Revenue 1997:	26,714.00
Total Water Produced 1997 (gallons):.....	0.00
Water Sold 1997 (gallons):.....	74,584,000.00
Unaccounted-for Water 1997 (%):	13.01

OTHER SYSTEMS

CLAYS FERRY CAMPGROUND

Clays Ferry Campground is located in Madison County. The system serves a population of 300 and has 112 service connections. The private, transient, non-community system has treatment capacity of 6,000 gallons per day. The water source is wells.

LEXINGTON BLUE GRASS ARMY DEPOT COMMANDER

Lexington Blue Grass Army Depot Commander is located in Madison County. The system serves a population of 500 and has 250 service connections. The federal, non-transient, non-community system has treatment capacity of 750,000 gallons per day and storage capacity of 1,000,000 gallons. The water source is Lake Vega.

PRIVATE DOMESTIC SYSTEMS

About 4,700 residents of Madison County rely on private domestic water supplies: about 1,000 on wells, and 3,700 on other sources.

Within the thin Kentucky River valley along the northern edge of Madison County and in the lower reaches of the valleys of the larger creeks that empty into the Kentucky River most drilled wells will produce enough water for a domestic supply at depths of less than 100 feet. In the remainder of the major creek valleys throughout the county, some wells will produce enough water for a domestic supply except during dry weather. In the upland areas of

Madison County, which encompasses 70% of the county, most drilled wells will not produce enough water for a dependable domestic supply except along drainage lines that may produce enough water except during dry weather.

Throughout the county ground water is hard or very hard and may contain salt or hydrogen sulfide, especially at depths greater than 100 feet.

MERCER COUNTY

(Mercer County Water Service Area Map)

- Estimated 1999 population of 20,700--92% on public water
- Estimated 2020 population of 22,900--95% on public water
- 340 miles of water lines, with plans for 90 additional miles
- Estimated funding needs for public water 2000-2005--\$7,650,000
- Estimated funding needs for public water 2006-2020--\$7,465,000

Mercer County had an estimated population of 20,723 (8,563 households) in 1999 with a projected population of 22,870 (9,709 households) in 2020. Public water is provided to about 92 percent of the county's residents. In areas of the county not served by public water, about 25 percent of the households rely on private domestic wells and 75 percent of the households rely on other sources. About 260 customers will be added to public water service through new line extensions in 2000-2020.

Estimated Costs - Proposed Projects, 2000-2005

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/Pumps	Total
	Miles	Number	Cost in \$1000	In \$1000	in \$1000	in \$1000	in \$1000	in \$1000
MERCER								-
Harrodsburg				700			820	1,520
Burgin				4,300				4,300
Lake Village Water	24.0	93	1,100					1,100
N. Mercer	16.0	45	730					730
TOTAL	40.0	138	1,830	5,000			820	7,650

Estimated Costs - Proposed Projects, 2006-2020

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
MERCER								-
Harrodsburg				730	500	4,100		5,330
Burgin				100				100
Lake Village Water	15	33	635					635
N. Mercer	35	91	1,400					1,400
Total	50	124	2,035	830	500	4,100		7,465

PUBLIC WATER SYSTEMS

Mercer County has 5 public water systems: 4 community-- 2 municipal, Burgin Water Department and Harrodsburg Municipal Water Department; 1 water district, North Mercer

WATER SERVICE AREAS MERCER COUNTY Kentucky

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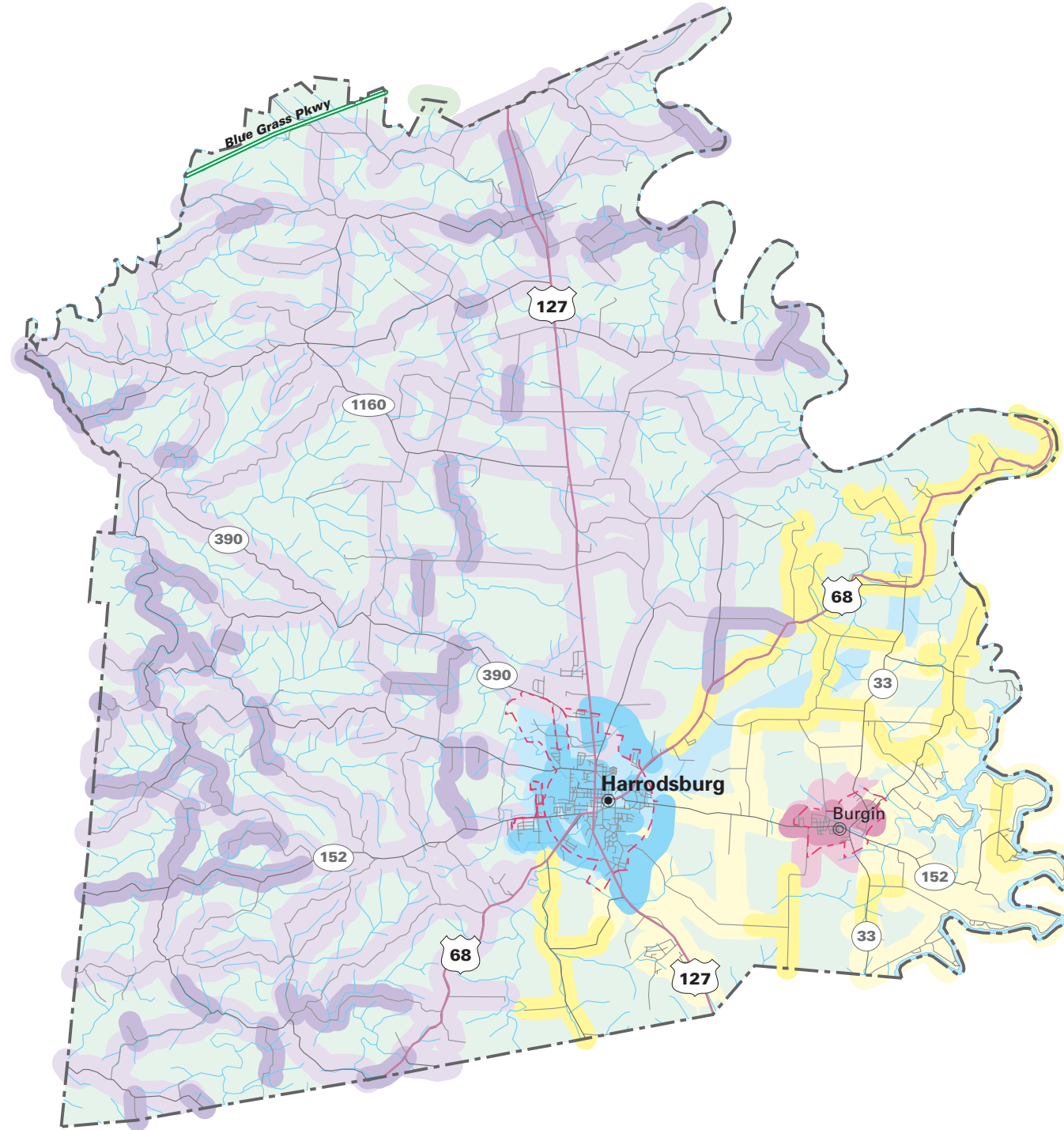
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WATER SERVICE STATUS BY OWNER

EXISTING SERVICE AREA	PROPOSED SERVICE AREA	OWNER
		SOUTH ANDERSON WATER DISTRICT
		NORTH MERCER WATER DISTRICT
		LAKE VILLAGE WATER ASSOCIATION
		HARRODSBURG MUNICIPAL WATER
		BURGIN MUNICIPAL WATER

Water District; 1 water association, Lake Village Water Association; and 1 non-community system.

BURGIN MUNICIPAL WATER DEPARTMENT

PWSID: 0840048
System Type:..... COMMUNITY
Owner Type:..... MUNICIPAL
Surface Source:
Purchase Source:
Well Source:
Sells Water to:
Treatment Plant Capacity (MGD):..... 0.00
Percent Daily Average Production:..... 0.00
Total Tank Storage Capacity (gallons):..... 0.00
Total Service Connections: 498.00
Number of Employees:..... 0.00
Treatment Operator Class:2D
Distribution Operator Class:
Customer Rate for 1,000 Gallons:..... Not available
O/M costs 1997:..... Not available
O/M costs per Service Connection: Not available
Net Revenue 1997:..... Not available
Total Water Produced 1997 (gallons):..... Not available
Water Sold 1997 (gallons):..... Not available
Unaccounted-for Water 1997 (%): Not available

HARRODSBURG MUNICIPAL WATER DEPARTMENT

PWSID: 0840180
System Type:..... COMMUNITY
Owner Type:..... MUNICIPAL
Surface Source:..... KENTUCKY RIVER
Purchase Source:
Well Source:
Sells Water to:
Treatment Plant Capacity (MGD):..... 4.00
Percent Daily Average Production:..... 53.00
Total Tank Storage Capacity (gallons):..... 750,000.00
Total Service Connections: 3,600.00
Number of Employees:..... 0.00
Treatment Operator Class:2D
Distribution Operator Class:.....4A
Customer Rate for 1,000 Gallons:..... Not available
O/M costs 1997:..... Not available
O/M costs per Service Connection: Not available
Net Revenue 1997:..... Not available
Total Water Produced 1997 (gallons):..... Not available
Water Sold 1997 (gallons):..... Not available
Unaccounted-for Water 1997 (%): Not available

NORTH MERCER WATER DISTRICT

PWSID: 0840321

System Type:..... COMMUNITY
 Owner Type:..... WATER DISTRICT
 Surface Source:
 Purchase Source:
 Well Source:
 Sells Water to:
 Treatment Plant Capacity (MGD):..... 0.00
 Percent Daily Average Production:..... 0.00
 Total Tank Storage Capacity (gallons):..... 120,000.00
 Total Service Connections: 3,110.00
 Number of Employees:..... 9.00
 Treatment Operator Class:2D
 Distribution Operator Class:
 Customer Rate for 1,000 Gallons:..... 4.73
 O/M costs 1997:..... 547,940.00
 O/M costs per Service Connection: 178.77
 Net Revenue 1997: 4,269.00
 Total Water Produced 1997 (gallons):..... 0.00
 Water Sold 1997 (gallons):..... 182,025,000.00
 Unaccounted-for Water 1997 (%): 13.49

LAKE VILLAGE WATER ASSOCIATION

PWSID: 0840587
 System Type:..... COMMUNITY
 Owner Type:..... WATER ASSOCIATION
 Surface Source:
 Purchase Source:
 Well Source:
 Sells Water to:
 Treatment Plant Capacity (MGD):..... 0.00
 Percent Daily Average Production:..... 0.00
 Total Tank Storage Capacity (gallons):..... 47,000.00
 Total Service Connections: 1,693.00
 Number of Employees:..... 6.00
 Treatment Operator Class:2D
 Distribution Operator Class:
 Customer Rate for 1,000 Gallons:..... 6.68
 O/M costs 1997:..... 410,397.00
 O/M costs per Service Connection: 252.24
 Net Revenue 1997: 15,278.00
 Total Water Produced 1997 (gallons):..... 0.00
 Water Sold 1997 (gallons):..... 89,437,000.00
 Unaccounted-for Water 1997 (%): 28.91

OTHER SYSTEMS

WARDS LANDING

Wards Landing is located in Mercer County. The system serves a population of 50 and has 1 service connection. The private, transient, non-community system has treatment capacity of 10,000 gallons per day. The water source is wells.

PRIVATE DOMESTIC SYSTEMS

About 1,600 people in Mercer County rely on private domestic water supplies: 400 on wells and 1,200 on other sources.

In the bottoms of the Salt, Dix, and Kentucky Rivers most drilled wells will produce enough water for a domestic supply at depths of less than 100 feet. In the larger creek and river valleys and a limited area between Harrodsburg and Shakertown, wells will produce enough water for a domestic supply except during dry weather. In the upland areas of Mercer County, which encompasses 65% of the county, most drilled wells will not produce enough water for a dependable domestic supply except along drainage lines that may produce enough water except during dry weather.

Throughout the county ground water is hard or very hard and may contain salt or hydrogen sulfide, especially at depths greater than 100 feet.

NICHOLAS COUNTY

(Nicholas County Water Service Area Map)

- Estimated 1999 population of 7,100--87% on public water
- Estimated 2020 population of 7,400--94% on public water
- 245 miles of water lines, with plans for 77 additional miles
- Estimated funding needs for public water 2000-2005--\$3,300,000
- Estimated funding needs for public water 2006-2020--\$2,743,000

Nicholas County had an estimated population of 7,053 (2,932 households) in 1999 with a projected population of 7,358 (3,213 households) in 2020. Public water is provided to about 87 percent of the county's residents. In areas of the county not served by public water, about 30 percent of the households rely on private domestic wells and 70 percent of the households rely on other sources. About 230 customers will be added to public water service through new line extensions in 2000-2020.

Estimated Costs - Proposed Projects, 2000-2005

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	In \$1000	in \$1000	in \$1000	in \$1000	in \$1000
NICHOLAS								-
Carlisle				30	250	2,100		2,380
Nicholas Co.	22.0	94	920					920
TOTAL	22.0	94	920	30	250	2,100	0	3,300

Estimated Costs - Proposed Projects, 2006-2020

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
NICHOLAS								-
Carlisle				500				500
Nicholas Co.	32	86	1,327					1,327
Sharpsburg	12	11	478					478
Harrison Co. W/A	4	16	162					162
W. Flemington W/D	6.5	21	276					276
Total	54.5	134	2,243	500				2,743

PUBLIC WATER SYSTEMS

Nicholas County has 3 community water systems: 1 municipal, Carlisle Water Department; 2 water districts, Nicholas County Water District and Western Fleming Water District. Parts

WATER SERVICE AREAS NICHOLAS COUNTY Kentucky

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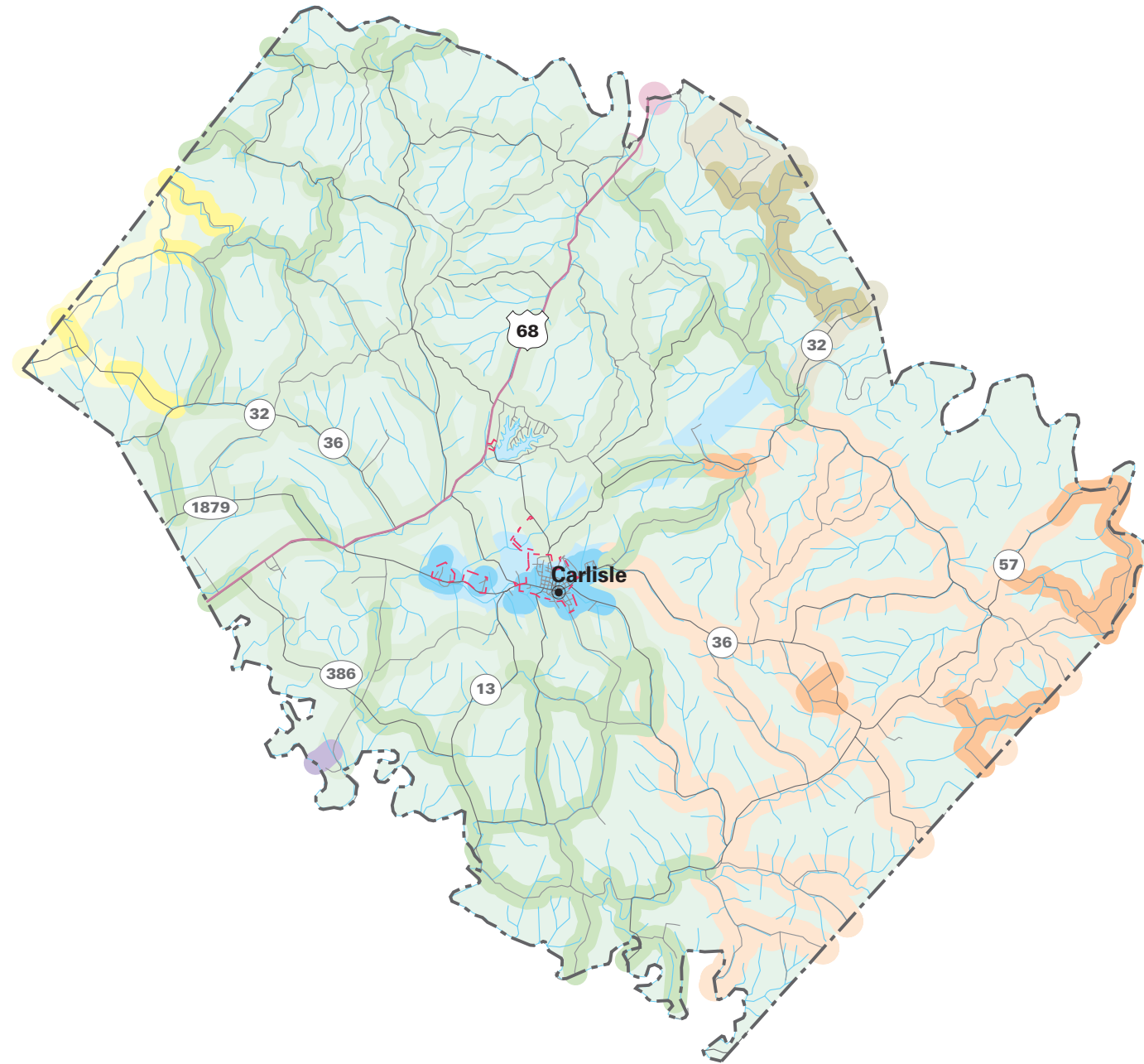
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WATER SERVICE STATUS BY OWNER

EXISTING SERVICE AREA	PROPOSED SERVICE AREA	OWNER
		WESTERN FLEMING WATER DISTRICT
		SHARPSBURG WATER DISTRICT
		NICHOLAS COUNTY WATER DISTRICT
		JUDY WATER ASSOCIATION
		HARRISON COUNTY WATER ASSOCIATION
		CARLISLE WATER DEPARTMENT
		BUFFALO TRAIL WATER ASSOCIATION

of the county are also served by the Harrison County Water Association and the Sharpsburg Water District.

CARLISLE MUNICIPAL WATER DEPARTMENT

PWSID: 0910065
System Type:..... COMMUNITY
Owner Type:..... MUNICIPAL
Surface Source:..... LICKING RIVER
Purchase Source:
Well Source:
Sells Water to:
Treatment Plant Capacity (MGD):..... 1.30
Percent Daily Average Production:..... 47.00
Total Tank Storage Capacity (gallons):..... 500,000.00
Total Service Connections: 1,186.00
Number of Employees:..... 0.00
Treatment Operator Class:2D
Distribution Operator Class:.....3A
Customer Rate for 1,000 Gallons:..... Not available
O/M costs 1997:..... Not available
O/M costs per Service Connection: Not available
Net Revenue 1997:..... Not available
Total Water Produced 1997 (gallons):..... Not available
Water Sold 1997 (gallons):..... Not available
Unaccounted-for Water 1997 (%): Not available

NICHOLAS COUNTY WATER DISTRICT

PWSID: 0910314
System Type:..... COMMUNITY
Owner Type:..... WATER DISTRICT
Surface Source:
Purchase Source:
Well Source:
Sells Water to:
Treatment Plant Capacity (MGD):..... 0.00
Percent Daily Average Production:..... 0.00
Total Tank Storage Capacity (gallons):..... 139,000.00
Total Service Connections: 8,200.00
Number of Employees:..... 0.00
Treatment Operator Class:2D
Distribution Operator Class:
Customer Rate for 1,000 Gallons:..... 7.93
O/M costs 1997:..... 185,660.00
O/M costs per Service Connection: 249.54
Net Revenue 1997:..... 14,888.00
Total Water Produced 1997 (gallons):..... 0.00
Water Sold 1997 (gallons):..... 41,951,000.00
Unaccounted-for Water 1997 (%): 14.97

WESTERN FLEMING WATER DISTRICT

PWSID:	0910675
System Type:.....	COMMUNITY
Owner Type:.....	WATER DISTRICT
Surface Source:.....	LICKING RIVER
Purchase Source:	
Well Source:	
Sells Water to:.....	FLEMINGSBURG UTILITY SYSTEM
Treatment Plant Capacity (MGD):.....	1.00
Percent Daily Average Production:.....	80.00
Total Tank Storage Capacity (gallons):.....	100,000.00
Total Service Connections:	1,180.00
Number of Employees:.....	4.00
Treatment Operator Class:	2D
Distribution Operator Class:.....	3A
Customer Rate for 1,000 Gallons:.....	2.97
O/M costs 1997:.....	235,967.00
O/M costs per Service Connection:	212.77
Net Revenue 1997:	16,503.00
Total Water Produced 1997 (gallons):.....	277,180,000.00
Water Sold 1997 (gallons):.....	225,843,000.00
Unaccounted-for Water 1997 (%):	17.08

PRIVATE DOMESTIC SYSTEMS

About 900 residents of Nicholas County rely on private domestic water supplies: 300 on wells and 600 on other sources.

In the Licking River valley and in the valley of the main trunk of Hinkston Creek most drilled wells will produce enough water for a domestic supply at depths of less than 100 feet. Wells located in many of the larger creek valleys will produce enough water for a domestic supply except during dry weather. In the upland areas of Nicholas County, which encompasses 85% of the county, most drilled wells will not produce enough water for a dependable domestic supply except along drainage lines that may produce enough water except during dry weather.

Throughout the county ground water is hard or very hard and may contain salt or hydrogen sulfide, especially at depths greater than 100 feet.

POWELL COUNTY

(Powell County Water Service Area Map)

- Estimated 1999 population of 12,900--75% on public water
- Estimated 2020 population of 15,100--76% on public water
- 190 miles of water lines, with plans for 30 additional miles
- Estimated funding needs for public water 2000-2005--\$3,069,000
- Estimated funding needs for public water 2006-2020--\$1,749,000

Powell County had an estimated population of 12,853 (4,825 households) in 1999 with a projected population of 15,074 (6,191 households) in 2020. Public water is provided to about 75 percent of the county's residents. In areas of the county not served by public water, about 44 percent of the households rely on private domestic wells and 56 percent of the households rely on other sources. About 82 customers will be added to public water service through new line extensions in 2000-2020.

Estimated Costs - Proposed Projects, 2000-2005

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/Pumps	Total
	Miles	Number	Cost in \$1000	In \$1000	in \$1000	in \$1000	in \$1000	in \$1000
POWELL								-
Stanton				560				560
Clay city				31				31
Powells Valley	6.0	28	343	555			180	1,078
Beech Fork W/D					700	700		1,400
TOTAL	6.0	28	343	1,146	700	700	180	3,069

Estimated Costs - Proposed Projects, 2006-2020

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
POWELL								-
Stanton	2	15	74	375				449
Clay city				82				82
Powells Valley	21.5	39	968				250	1,218
Beech Fork W/D								-
Total	23.5	54	1,042	457			250	1,749

PUBLIC WATER SYSTEMS

Powell County has 5 public water systems: 4 community systems-- 2 municipal, Clay City Water System and Stanton Water Works; 2 water districts, Powell Valley Water District and

WATER SERVICE AREAS POWELL COUNTY Kentucky

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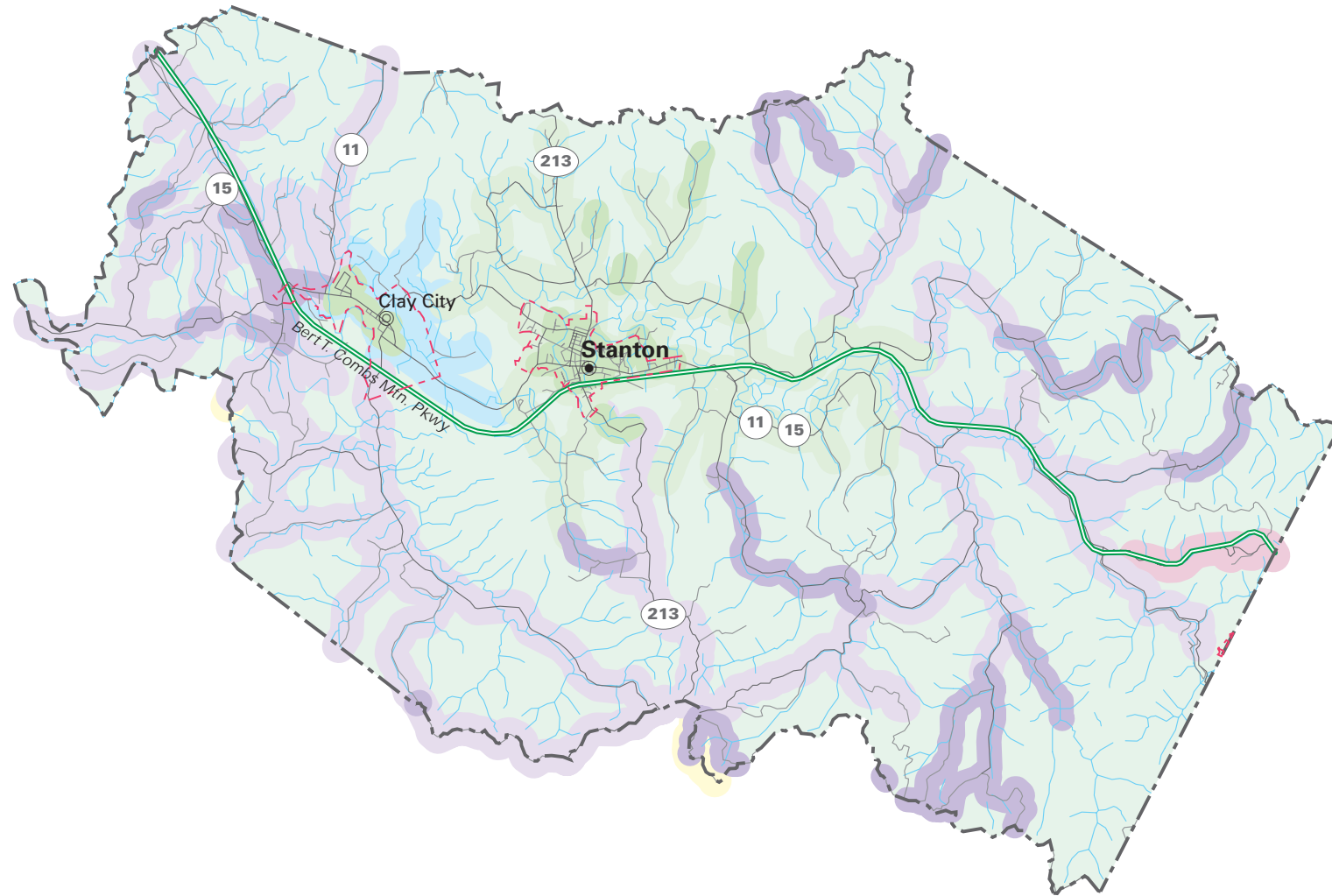
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WATER SERVICE STATUS BY OWNER

EXISTING SERVICE AREA	PROPOSED SERVICE AREA	OWNER
		STANTON WATER WORKS
		POWELL VALLEY WATER DISTRICT
		ESTILL COUNTY WATER DISTRICT
		CLAY CITY WATER SYSTEM
		CAMPTON WATER PLANT

the Beech Fork Water Commission, which provides water to the community systems in the county; and 1 non-community system.

CLAY CITY MUNICIPAL WATER SYSTEM

PWSID: 0990074
System Type:..... COMMUNITY
Owner Type:..... MUNICIPAL
Surface Source:.....RED RIVER
Purchase Source:
Well Source:
Sells Water to:
Treatment Plant Capacity (MGD):..... 0.00
Percent Daily Average Production:..... 0.00
Total Tank Storage Capacity (gallons): 200,000.00
Total Service Connections: 754.00
Number of Employees:..... 5.00
Treatment Operator Class:2D
Distribution Operator Class:.....2A
Customer Rate for 1,000 Gallons:..... Not available
O/M costs 1997:..... Not available
O/M costs per Service Connection: Not available
Net Revenue 1997: Not available
Total Water Produced 1997 (gallons):..... Not available
Water Sold 1997 (gallons):..... Not available
Unaccounted-for Water 1997 (%): Not available

POWELL VALLEY WATER DISTRICT

PWSID: 0990357
System Type:..... COMMUNITY
Owner Type:..... WATER DISTRICT
Surface Source:
Purchase Source:
Well Source:
Sells Water to:
Treatment Plant Capacity (MGD):..... 0.00
Percent Daily Average Production:..... 0.00
Total Tank Storage Capacity (gallons): 100,000.00
Total Service Connections: 1,780.00
Number of Employees:..... 4.00
Treatment Operator Class:2D
Distribution Operator Class:
Customer Rate for 1,000 Gallons:..... 6.24
O/M costs 1997:..... 413,978.00
O/M costs per Service Connection: 233.89
Net Revenue 1997: 37,218.00
Total Water Produced 1997 (gallons):..... 0.00
Water Sold 1997 (gallons):..... 82,496,420.00
Unaccounted-for Water 1997 (%): 10.80

STANTON MUNICIPAL WATER WORKS

PWSID: 0990418
 System Type:..... COMMUNITY
 Owner Type:..... MUNICIPAL
 Surface Source:.....RED RIVER
 Purchase Source:
 Well Source:
 Sells Water to:
 Treatment Plant Capacity (MGD):..... 0.00
 Percent Daily Average Production:..... 0.00
 Total Tank Storage Capacity (gallons): 100,000.00
 Total Service Connections: 960.00
 Number of Employees:..... 7.00
 Treatment Operator Class:2D
 Distribution Operator Class:
 Customer Rate for 1,000 Gallons:..... Not available
 O/M costs 1997:..... Not available
 O/M costs per Service Connection: Not available
 Net Revenue 1997: Not available
 Total Water Produced 1997 (gallons):..... Not available
 Water Sold 1997 (gallons):..... Not available
 Unaccounted-for Water 1997 (%): Not available

BEECH FORK WATER COMMISSION

Beech Fork Water Commission is located in Powell County. The system serves a population of 10,712 and has 3 service connections--Stanton, Clay City, and Powells Valley. The water district has treatment capacity of 1,944,000 gallons per day. The water source is Beech Fork Reservoir.

OTHER SYSTEMS

NATURAL BRIDGE STATE PARK

Natural Bridge State Park is located in Powell County. The system serves a population of 1,800 and has 120 service connections. The state, non-transient, non-community system has treatment capacity of 144,000 gallons per day and storage capacity of 847,000 gallons. The water source is Mill Creek Lake.

PRIVATE DOMESTIC SYSTEMS

About 3,100 residents of Powell County rely on private domestic water supplies: 1,400 on wells and 1,700 on other sources.

In the main stem of the Red River valley in central Powell County, most drilled wells will produce enough water for a domestic supply at depths of less than 100 feet. In the larger creek valleys throughout the county, some wells will produce enough water for a domestic supply except during dry weather. In the upland areas of Clark County, which encompasses 60% of the county, most drilled wells will not produce enough water for a dependable domestic supply except along drainage lines that may produce enough water except during dry weather.

Throughout the county ground water is hard or very hard and may contain salt or hydrogen sulfide, especially at depths greater than 100 feet. A few springs supply sufficient quantities of water for domestic use.

SCOTT COUNTY

(Scott County Water Service Area Map)

- Estimated 1999 population of 30,200--90% on public water
- Estimated 2020 population of 44,600--92% on public water
- 345 miles of water lines, with plans for 90 additional miles
- Estimated funding needs for public water 2000-2005--\$2,823,000
- Estimated funding needs for public water 2006-2020--\$3,004,000

Scott County had an estimated population of 30,206 (11,798 households) in 1999 with a projected population of 44,556 (19,002 households) in 2020. Public water is provided to about 90 percent of the county's residents. In areas of the county not served by public water, about 30 percent of the households rely on private domestic wells and 70 percent of the households rely on other sources. About 460 customers will be added to public water service through new line extensions in 2000-2020.

Estimated Costs - Proposed Projects, 2000-2005

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	In \$1000	in \$1000	in \$1000	in \$1000	in \$1000
SCOTT								
Georgetown	14.0	218	730	1,000		1,000		2,730
Stamping Ground				93				93
Kentucky-American	46	140						
TOTAL	60.0	358	730	1,093		1,000	0	2,823

Estimated Costs - Proposed Projects, 2006-2020

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
SCOTT								-
Georgetown	13	51	810	600			1,500	2,910
Stamping Ground				94				94
Kentucky American	14	45	Private system					
Total	27	96	810	694			1,500	3,004

PUBLIC WATER SYSTEMS

Scott County has 2 municipal water systems, Georgetown Municipal Water Service and Stamping Ground Water. The county is also served by Harrison County Rural Water Association and the Kentucky-American Water Company.

WATER SERVICE AREAS SCOTT COUNTY Kentucky



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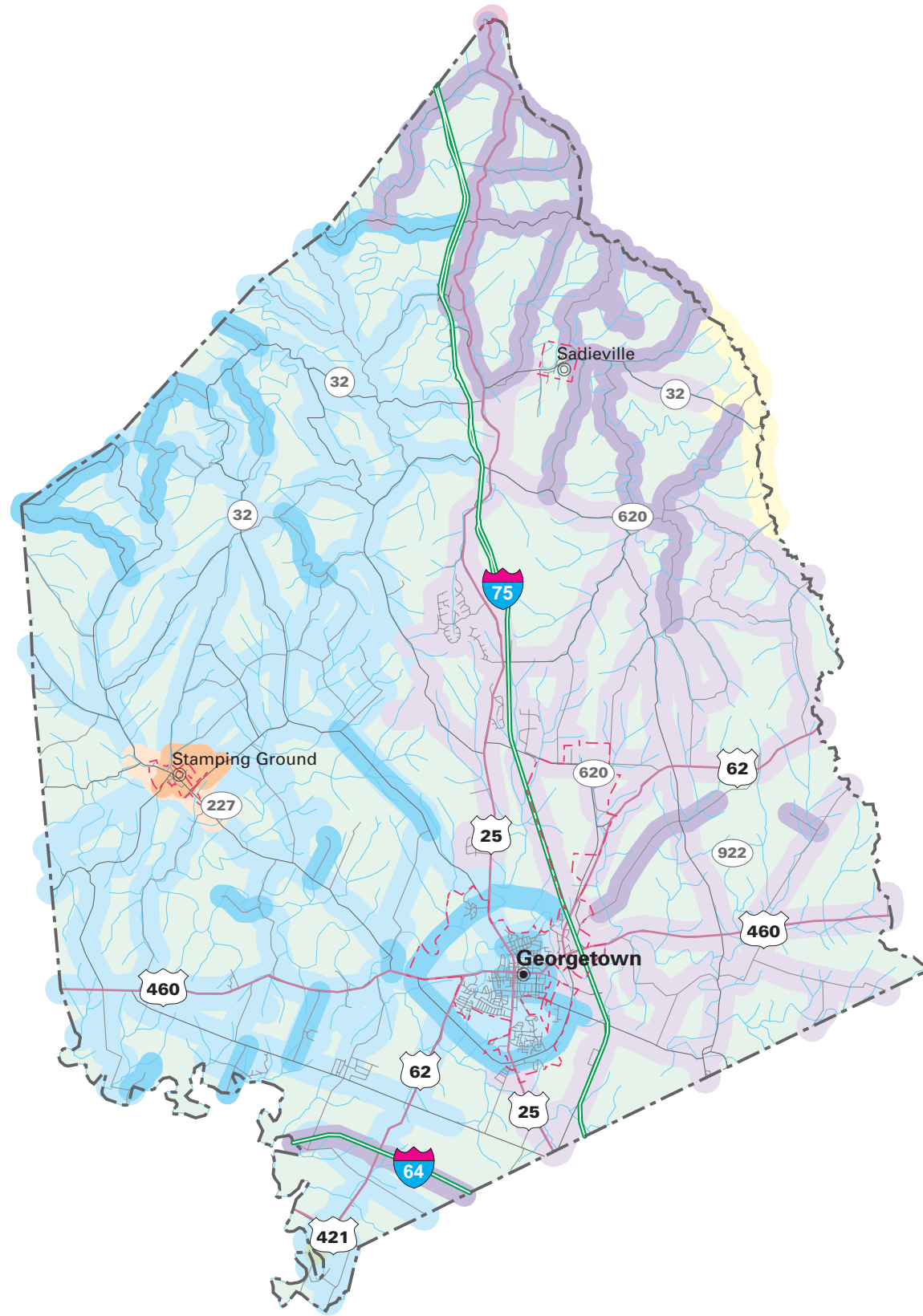
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WATER SERVICE STATUS BY OWNER

EXISTING SERVICE AREA	PROPOSED SERVICE AREA	OWNER
		STAMPING GROUND WATER DISTRICT
		MIDWAY MUNICIPAL WATER WORKS
		KENTUCKY-AMERICAN WATER COMPANY
		HARRISON COUNTY WATER ASSOCIATION
		GEORGETOWN MUNICIPAL WATER SERVICE
		CORINTH WATER DISTRICT

GEORGETOWN MUNICIPAL WATER SERVICE

PWSID: 1050157
 System Type:..... COMMUNITY
 Owner Type:..... MUNICIPAL
 Surface Source:..... ROYAL SPRING
 Purchase Source:
 Well Source:
 Sells Water to:
 Treatment Plant Capacity (MGD):..... 4.00
 Percent Daily Average Production:..... 42.00
 Total Tank Storage Capacity (gallons): 600,000.00
 Total Service Connections: 7,000.00
 Number of Employees:..... 15.00
 Treatment Operator Class:3D
 Distribution Operator Class:.....4A
 Customer Rate for 1,000 Gallons:..... Not available
 O/M costs 1997:..... Not available
 O/M costs per Service Connection: Not available
 Net Revenue 1997: Not available
 Total Water Produced 1997 (gallons):..... Not available
 Water Sold 1997 (gallons):..... Not available
 Unaccounted-for Water 1997 (%): Not available

STAMPING GROUND MUNICIPAL WATER DISTRICT

PWSID: 1050416
 System Type:..... COMMUNITY
 Owner Type:..... MUNICIPAL
 Surface Source:..... NORTH FORK/ELKHORN CREEK
 Purchase Source:
 Well Source:
 Sells Water to:
 Treatment Plant Capacity (MGD):..... 0.00
 Percent Daily Average Production:..... 0.00
 Total Tank Storage Capacity (gallons): 0.00
 Total Service Connections: 244.00
 Number of Employees:..... 1.00
 Treatment Operator Class: 1D
 Distribution Operator Class:.....2A
 Customer Rate for 1,000 Gallons:..... Not available
 O/M costs 1997:..... Not available
 O/M costs per Service Connection: Not available
 Net Revenue 1997: Not available
 Total Water Produced 1997 (gallons):..... Not available
 Water Sold 1997 (gallons):..... Not available
 Unaccounted-for Water 1997 (%): Not available

PRIVATE DOMESTIC SYSTEMS

About 2,800 residents of Scott County rely on private domestic water supplies: 800 on wells and 2,000 on other sources.

In the North and South Fork of Elkhorn Creeks and their major tributaries, most drilled wells in the valleys will produce enough water for a domestic supply at depths of less than 100 feet. Wells located in the creek valleys of the northern half of the county and in the upper reaches of the creek valleys and some of the upland areas in the southern half will produce enough water for a domestic supply except during dry weather. In the upland areas of the northern two-thirds of Scott County, which encompasses 50% of the county, most drilled wells will not produce enough water for a dependable domestic supply except along drainage lines that may produce enough water except during dry weather.

Throughout the county ground water is hard or very hard and may contain salt or hydrogen sulfide, especially at depths greater than 100 feet.

WOODFORD COUNTY

(Woodford County Water Service Area Map)

- Estimated 1999 population of 22,700--93% on public water
- Estimated 2020 population of 27,000--95% on public water
- 175 miles of water lines, with plans for 48 additional miles
- Estimated funding needs for public water 2000-2005--\$1,990,000
- Estimated funding needs for public water 2006-2020--\$7,004,000

Woodford County had an estimated population of 22,715 (9,082 households) in 1999 with a projected population of 26,989 (11,651 households) in 2020. Public water is provided to about 93 percent of the county's residents. In areas of the county not served by public water, about half of the households rely on private domestic wells and half rely on other sources. About 230 customers will be added to public water service through new line extensions in 2000-2020.

Estimated Costs - Proposed Projects, 2000-2005

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	In \$1000	in \$1000	in \$1000	in \$1000	in \$1000
WOODFORD								
Versailles				360			900	1,260
Midway				140				140
S. Woodford W/D	6.0	35	260					260
Frankfort				330				330
TOTAL	6.0	35	260	830			900	1,990

Estimated Costs - Proposed Projects, 2006-2020

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
Woodford								-
Versailles	7	39	500	1,000		3,800		5,300
Midway	7.5	78	360				275	635
S. Woodford W/D	7	15	291					291
Frankfort	19	46	738					738
N.E. Woodford Co. W/D	1	15	40					40
Total	41.5	193	1,929	1,000		3,800	275	7,004

PUBLIC WATER SYSTEMS

Woodford County has 4 community water systems: 2 municipal, Midway Municipal Water Works and Versailles Water System; and 2 water districts, Northeast Woodford County Water District and South Woodford County Water District. Parts of the county are also

WATER SERVICE AREAS WOODFORD COUNTY Kentucky

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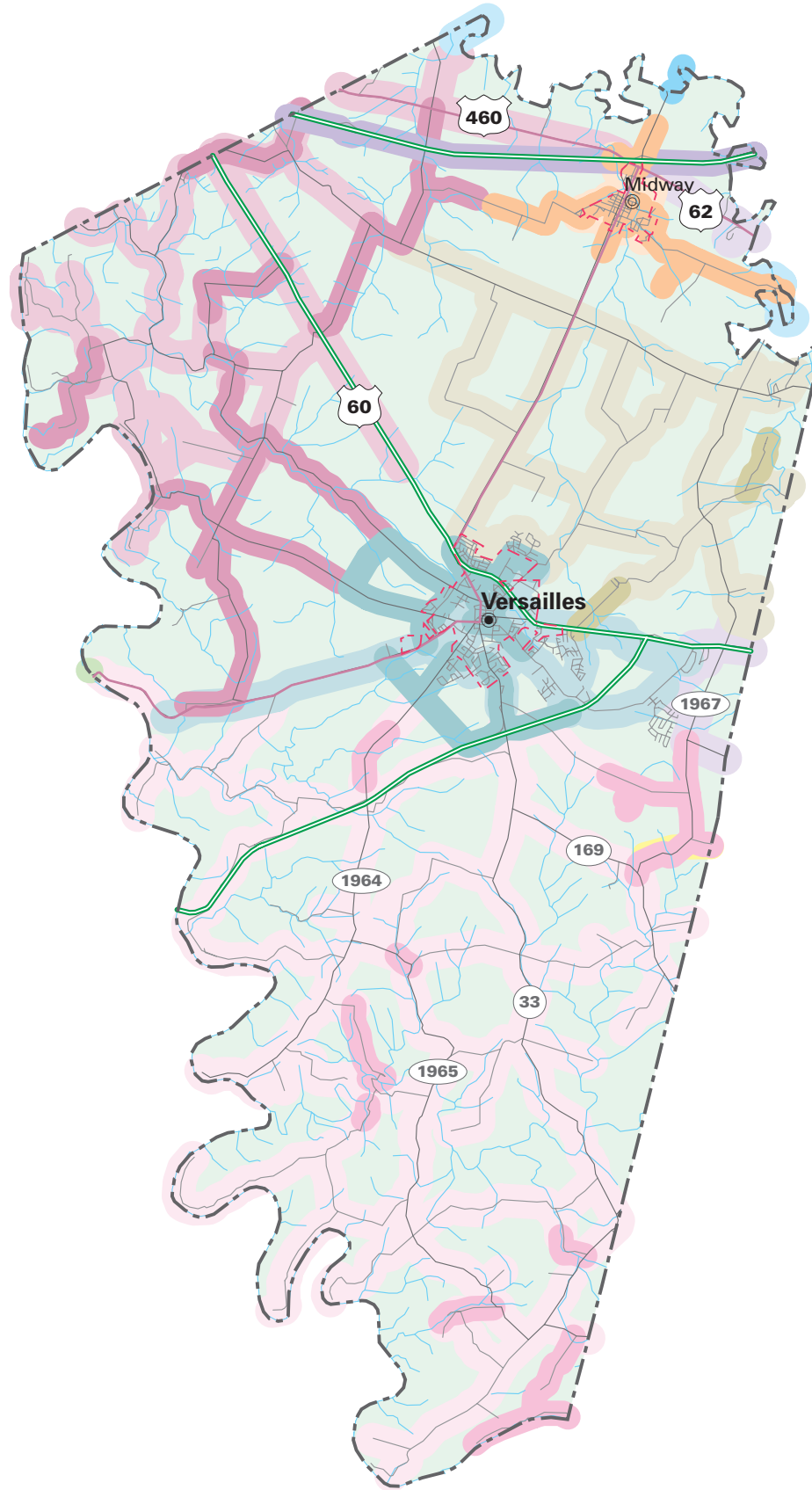
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WATER SERVICE STATUS BY OWNER

EXISTING SERVICE AREA	PROPOSED SERVICE AREA	OWNER
		VERSAILLES MUNICIPAL WATER
		SOUTH WOODFORD WATER DISTRICT
		NORTHEAST WOODFORD COUNTY WATER DISTRICT
		MIDWAY MUNICIPAL WATER
		LAWRENCEBURG MUNICIPAL WATER
		KENTUCKY-AMERICAN WATER COMPANY
		JESSAMINE-SOUTH ELKHORN WATER DISTRICT
		GEORGETOWN MUNICIPAL WATER
		FRANKFORT ELECTRIC & WATER PLANT BOARD

served by the Frankfort Electric and Water Plant Board, the Kentucky-American Water Company, and Georgetown Municipal Water.

MIDWAY MUNICIPAL WATER WORKS

PWSID: 1200283
 System Type:..... COMMUNITY
 Owner Type:..... MUNICIPAL
 Surface Source:
 Purchase Source:
 Well Source:
 Sells Water to:
 Treatment Plant Capacity (MGD):..... 0.00
 Percent Daily Average Production:..... 0.00
 Total Tank Storage Capacity (gallons): 75,000.00
 Total Service Connections: 577.00
 Number of Employees:..... 0.00
 Treatment Operator Class:2D
 Distribution Operator Class:
 Customer Rate for 1,000 Gallons:..... Not available
 O/M costs 1997:..... Not available
 O/M costs per Service Connection: Not available
 Net Revenue 1997:..... Not available
 Total Water Produced 1997 (gallons):..... Not available
 Water Sold 1997 (gallons):..... Not available
 Unaccounted-for Water 1997 (%): Not available

NORTHEAST WOODFORD COUNTY WATER DISTRICT

PWSID: 1200310
 System Type:..... COMMUNITY
 Owner Type:..... WATER DISTRICT
 Surface Source:
 Purchase Source:
 Well Source:
 Sells Water to:
 Treatment Plant Capacity (MGD):..... 0.00
 Percent Daily Average Production:..... 0.00
 Total Tank Storage Capacity (gallons): 100,000.00
 Total Service Connections: 822.00
 Number of Employees:..... 0.00
 Treatment Operator Class:2D
 Distribution Operator Class:
 Customer Rate for 1,000 Gallons:..... 3.09
 O/M costs 1997:..... 240,619.00
 O/M costs per Service Connection: 292.72
 Net Revenue 1997:..... 62,612.00
 Total Water Produced 1997 (gallons):..... 0.00
 Water Sold 1997 (gallons):..... 109,184.00
 Unaccounted-for Water 1997 (%): 8.43

SOUTH WOODFORD COUNTY WATER DISTRICT

PWSID: 1200411
 System Type:..... COMMUNITY
 Owner Type:..... WATER DISTRICT
 Surface Source:
 Purchase Source:
 Well Source:
 Sells Water to:
 Treatment Plant Capacity (MGD):..... 0.00
 Percent Daily Average Production:..... 0.00
 Total Tank Storage Capacity (gallons): 200,000.00
 Total Service Connections: 1,045.00
 Number of Employees:..... 2.00
 Treatment Operator Class:2D
 Distribution Operator Class:
 Customer Rate for 1,000 Gallons:..... 5.20
 O/M costs 1997:..... 423,656.00
 O/M costs per Service Connection: 300.47
 Net Revenue 1997: 11,965.00
 Total Water Produced 1997 (gallons):..... 0.00
 Water Sold 1997 (gallons): 91,851,000.00
 Unaccounted-for Water 1997 (%): 37.97

VERSAILLES MUNICIPAL WATER SYSTEM

PWSID: 1200439
 System Type:..... COMMUNITY
 Owner Type:..... MUNICIPAL
 Surface Source:..... KENTUCKY RIVER POOL 5
 Purchase Source:
 Well Source:
 Sells Water to:
 Treatment Plant Capacity (MGD):..... 4.00
 Percent Daily Average Production:..... 74.00
 Total Tank Storage Capacity (gallons): 300,000.00
 Total Service Connections: 4,825.00
 Number of Employees:..... 10.00
 Treatment Operator Class:3D
 Distribution Operator Class:.....4A
 Customer Rate for 1,000 Gallons:..... Not available
 O/M costs 1997:..... Not available
 O/M costs per Service Connection: Not available
 Net Revenue 1997: Not available
 Total Water Produced 1997 (gallons):..... Not available
 Water Sold 1997 (gallons): Not available
 Unaccounted-for Water 1997 (%): Not available

PRIVATE DOMESTIC SYSTEMS

About 1,500 residents of Woodford County rely on private domestic water supplies: about 750 on wells and 750 on other sources.

In the Kentucky River, South Fork of Elkhorn Creeks, Clear Creek and Glenss Creek and their major tributaries, most drilled wells in the valleys will produce enough water for a domestic supply at depths of less than 100 feet. Wells located in the smaller creek valleys throughout the county and the uplands of the far eastern part of the county will produce enough water for a domestic supply except during dry weather. In the upland area of western and far southern Woodford County, which encompasses 40% of the county, most drilled wells will not produce enough water for a dependable domestic supply except along drainage lines that may produce enough water except during dry weather.

Throughout the county ground water is hard or very hard and may contain salt or hydrogen sulfide, especially at depths greater than 100 feet.