

Contributions of State and private forest lands to surface drinking water supply:

# KENTUCKY

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**This file compiles State-specific excerpts from appendices A and B of the following report:**

Liu, Ning; Dobbs, G. Rebecca; Caldwell, Peter V.; Miniati, Chelcy Ford; Bolstad, Paul V.; Nelson, Stacy; Sun, Ge. 2020. Quantifying the role of State and private forest lands in providing surface drinking water supply for the Southern United States. Gen. Tech. Rep. SRS-248. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. 405 p. <https://doi.org/10.2737/SRS-GTR-248>.

**Appendix A**—Detailed information regarding forest ownership, water yield, surface drinking water intakes, and percent of water originating on State and private forest (SPF) lands in Kentucky.

**Table B.AL.1**—Public water system intakes receiving water from State and private forest land in Kentucky.

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## STATE OF KENTUCKY

### Summary

State and private forest (SPF) lands cover 42.7 percent of Kentucky (figs. A.KY.1 and A.KY.2; table A.KY.1). About 39.8 percent of all Kentucky surface water originates on SPF lands (fig. A.KY.3). The majority of SPF land area is in, and surface water is from, family-owned forests, accounting for about 78.4 percent of the SPF land area and 79.0 percent of surface water from SPF. Corporate-owned forests contribute 15.0 percent of surface water from SPF and account for 15.5 percent of land area of SPF. Average annual water yield in Kentucky is about 503 mm (fig. A.KY.4). Kentucky has a total of 214 surface drinking water intakes where at least some available water comes from SPF (fig. A.KY.5). About 66.9 percent of the total population of Kentucky is served by surface drinking water overall, and Kentucky SPF surface drinking water also serves about 66.9 percent of the State population, or 3.0 million people, to some degree. About 0.8 million people in Kentucky are getting more than half of their surface drinking water from SPF

within the State (fig. A.KY.6). State and private forest lands in Kentucky also supply water to 83 surface drinking water intakes in other States (Illinois, Indiana, Louisiana, Ohio, Tennessee, and West Virginia) (fig. A.KY.7), which collectively serve about 2.8 million people in 64 communities (fig. A.KY.8). Many public water systems in Kentucky utilize more than one surface drinking water intake; these systems are shown (intakes aggregated) in figure A.KY.9 by population served (symbol size) and percentage of water from SPF lands in Kentucky (symbol color). The Louisville-Lexington detail map (fig. A.KY.10) adds clarity on the hydrology, surface drinking water intakes, water originating on SPF lands, and population centers in an area where there is complex intersection between public water supply systems and population served. A case study (fig. A.KY.11) of the Kentucky-American Water Company presents an example of the important role SPF lands play in providing water supply to a single community in Kentucky, where four surface drinking water intakes receive about 54.8 percent of their water from SPF and serve about 0.3 million people.

**Table A.KY.1—Land area by land cover and forest ownership type in Kentucky**

Land cover	Land area (km <sup>2</sup> )	Land area (acres)
Forest	52 816	13,051,086
Nonforest	56 698	14,010,471
Forest ownership type <sup>a</sup>	Land area (km <sup>2</sup> )	Land area (acres)
Federal (public)	6070	1,499,922
Tribal (public)	0	0
State (public)	2207	545,373
Local (public)	272	67,094
Corporate (private)	7261	1,794,330
Family (private)	36 665	9,060,203
Other private	341	84,164

<sup>a</sup>State and private forest land comprises State, local, corporate, family, and other private (the last two also referred to together as nonindustrial private forest, or NIPF). Corporate ownership lands include forest land owned by forest industry as well as other corporate entities such as Timber Investment Management Organizations and Real Estate Investment Trusts (TIMOs and REITs, respectively).

### Kentucky Forested Lands by Ownership

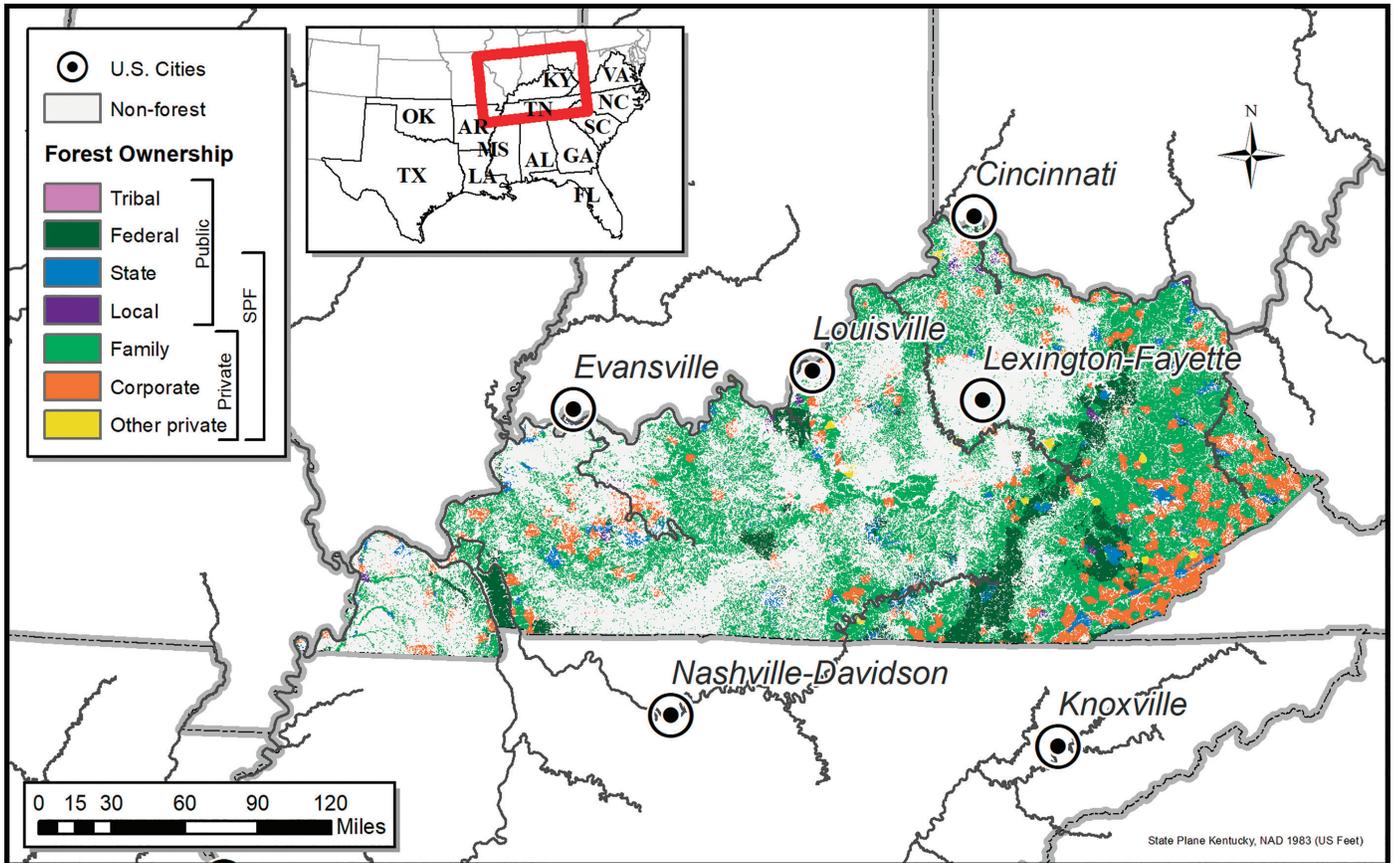


Figure A.KY.1—Kentucky nonforest land and forest lands by ownership, ca. 2014. Forest ownership data source: raster dataset by Hewes and others (2017); see report for more discussion of data derivation and accuracy.

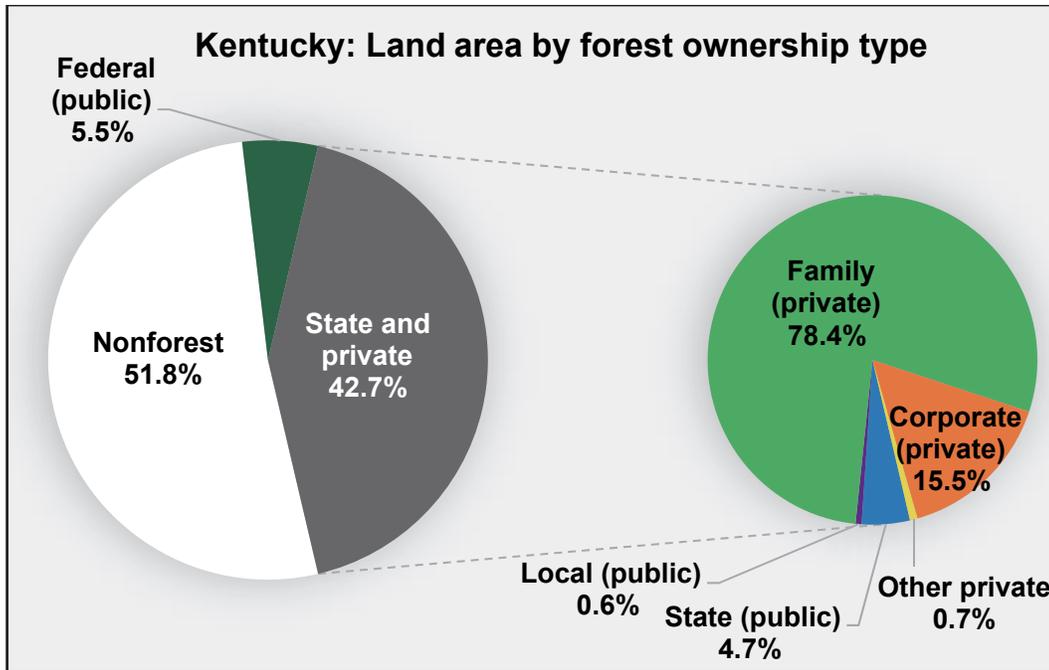


Figure A.KY.2—Land area percentages by forest ownership, ca. 2014. In the smaller circle, percentages represent portion of SPF total for each ownership category. Note: Due to rounding, percentages may not total exactly 100.

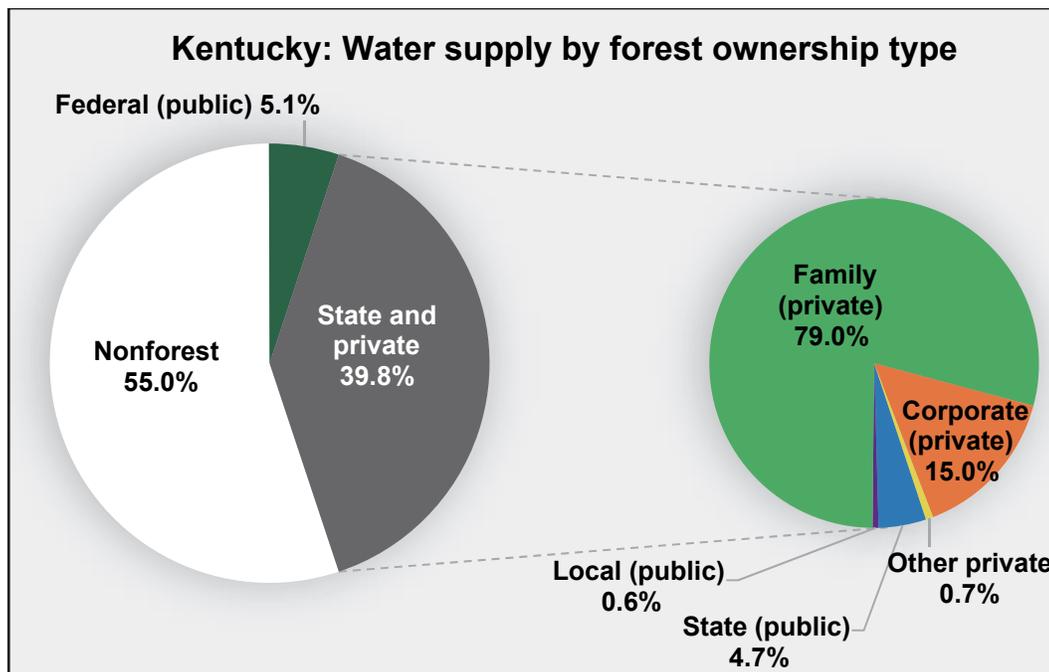


Figure A.KY.3—Percentage of Kentucky's water supply deriving from nonforest lands and forest lands of different ownership, ca. 2014. In the smaller circle, percentages represent portion of SPF total for each ownership category. Note: Due to rounding, percentages may not total exactly 100.

**Kentucky**  
**2001-2010 Mean Annual Water Yield by 12-Digit Hydrologic Unit**

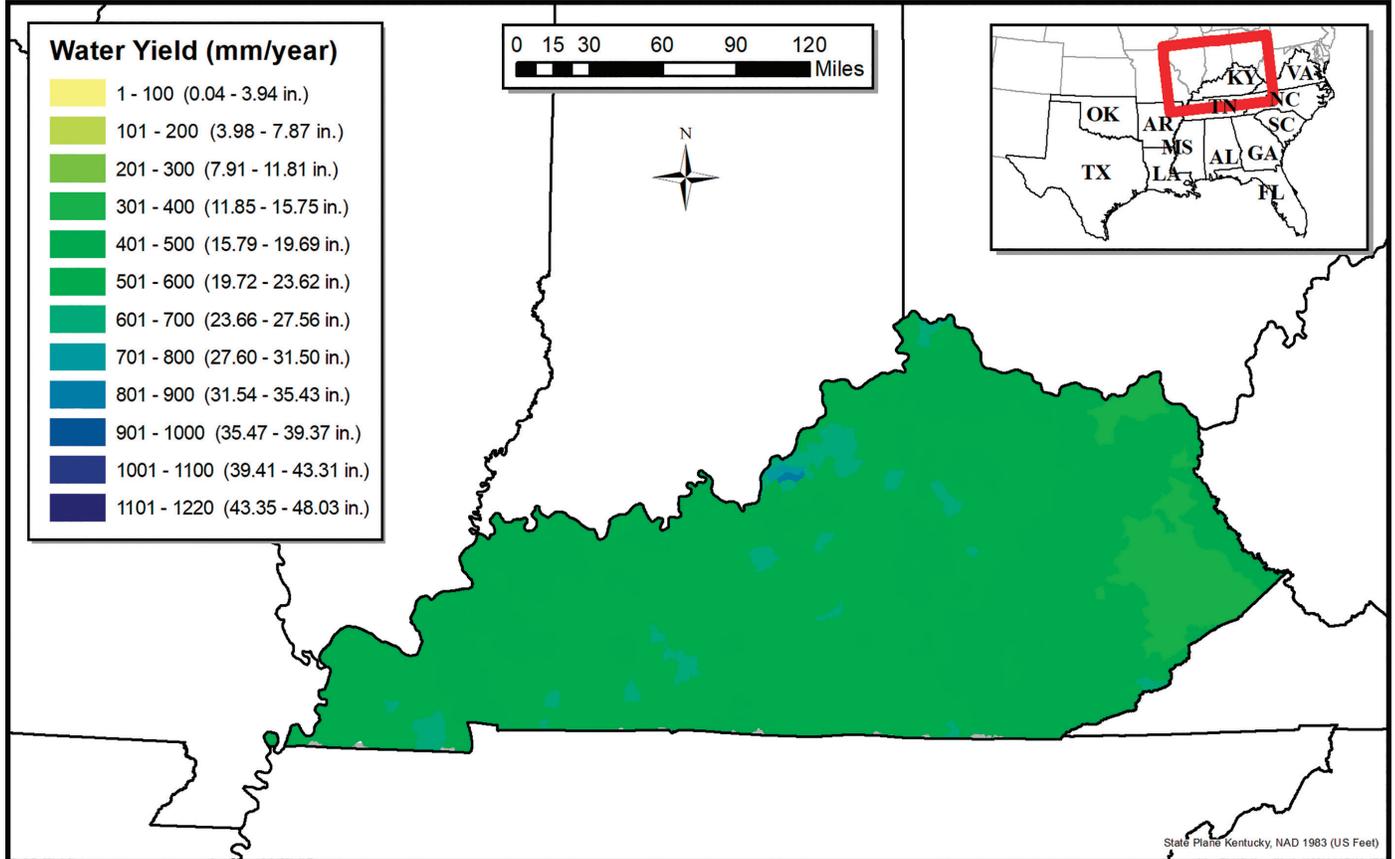


Figure A.KY.4—Estimated mean annual water yield by 12-digit hydrologic units in Kentucky, 2001–2010. Hydrologic Unit Codes (HUC) use number of digits to represent watersheds of different scales. A 12-digit HUC (HUC12) represents a small local watershed. For explanation of water yield and how it is derived, see report.

(A) Streams and Intrastate Public Water System Intakes Receiving Water from Kentucky State and Private Forests

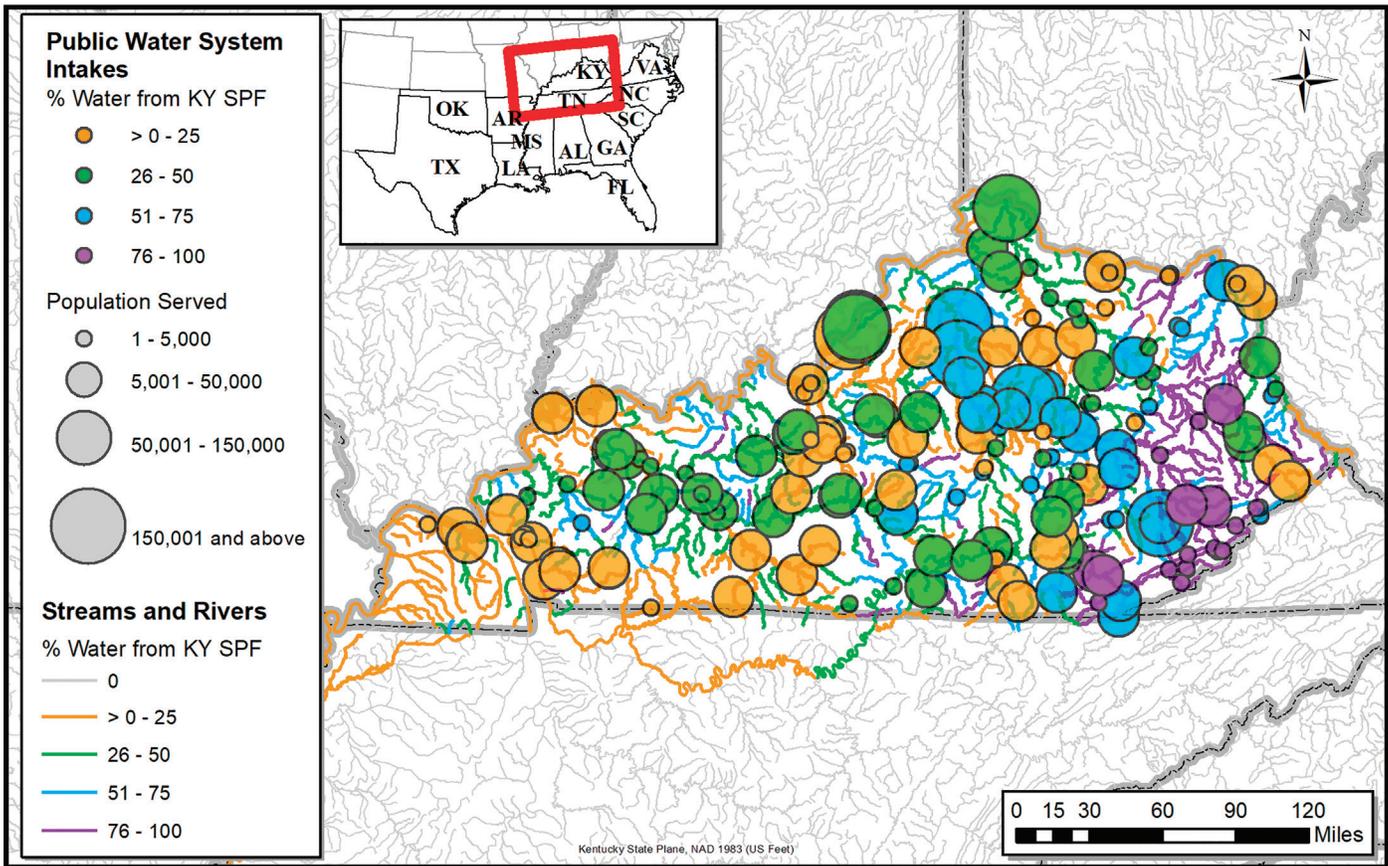


Figure A.KY.5—(A) Kentucky streams by percentage of Kentucky SPF water content, surface drinking water intakes within Kentucky by percentage of Kentucky SPF surface water available at intake (symbol color), and population served by each intake (symbol size). A total of 214 surface drinking water intakes within the State serve a population of 2,980,618 in 140 communities. Note: See figures A.KY.5 parts B and C on separate pages for streams and intakes only.

(B) Streams Receiving  
Water from Kentucky State and Private Forests

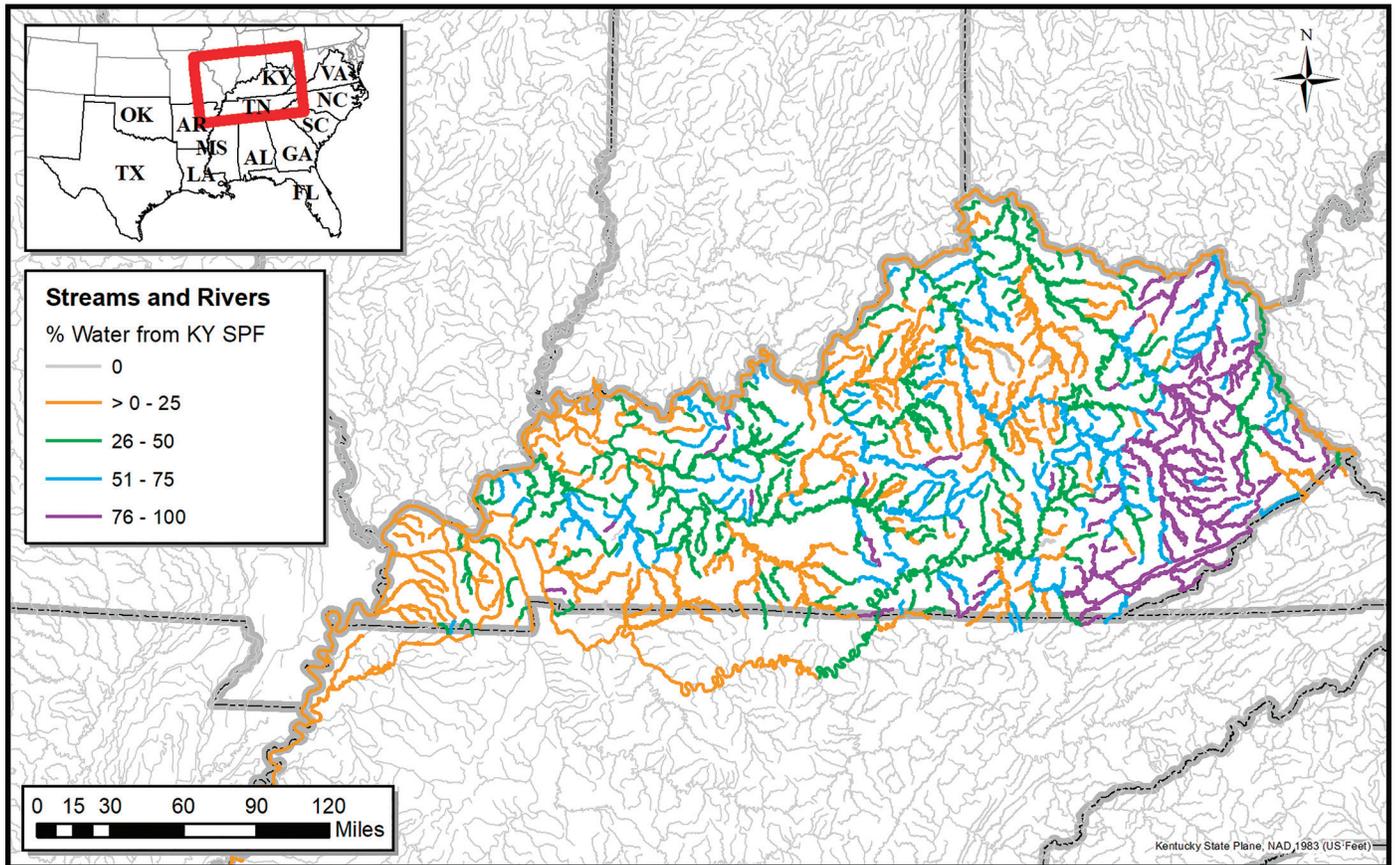


Figure A.KY.5—(B) Kentucky streams by percentage of Kentucky SPF water content.

(C) Intrastate Public Water System Intakes Receiving Water from Kentucky State and Private Forests

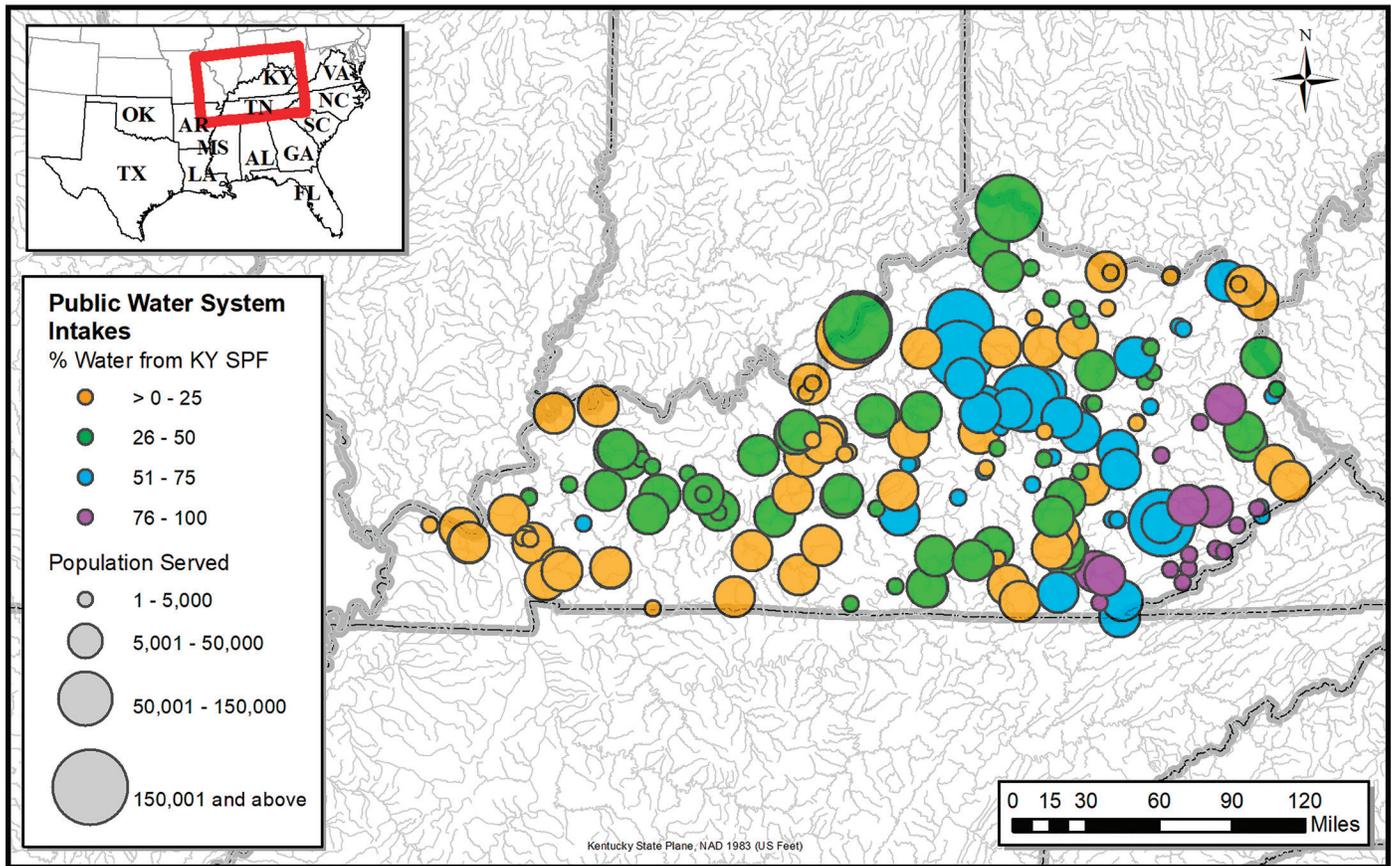


Figure A.KY.5—(C) Surface drinking water intakes within Kentucky by percentage of Kentucky SPF surface water available at intake (symbol color) and population served by each intake (symbol size). A total of 214 surface drinking water intakes within the State serve a population of 2,980,618 in 140 communities.

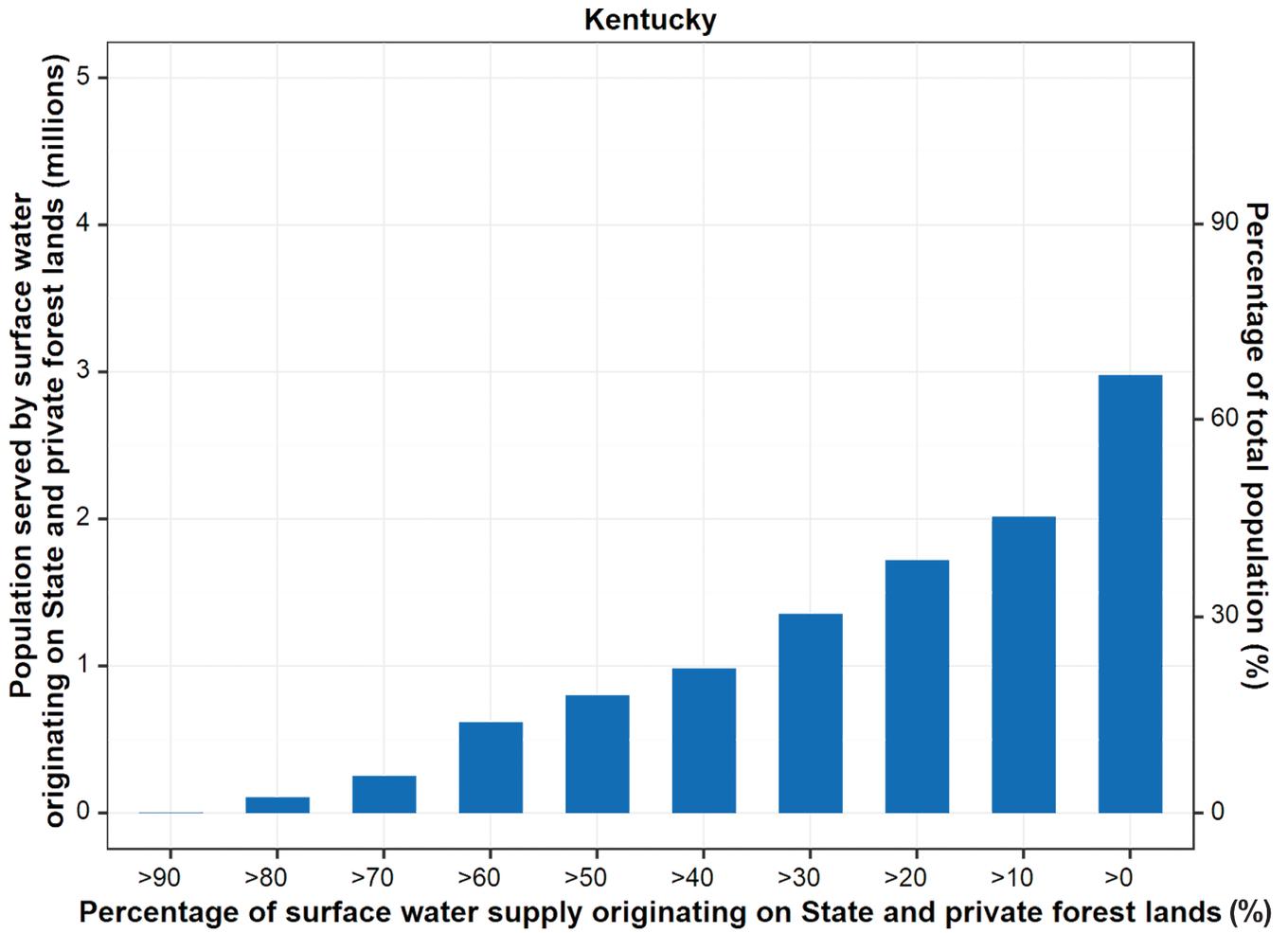


Figure A.KY.6—Cumulative frequency of population served according to percentage of water coming from Kentucky SPF lands.

### Public Water System Intakes Outside of Kentucky Receiving Water from Kentucky State and Private Forests

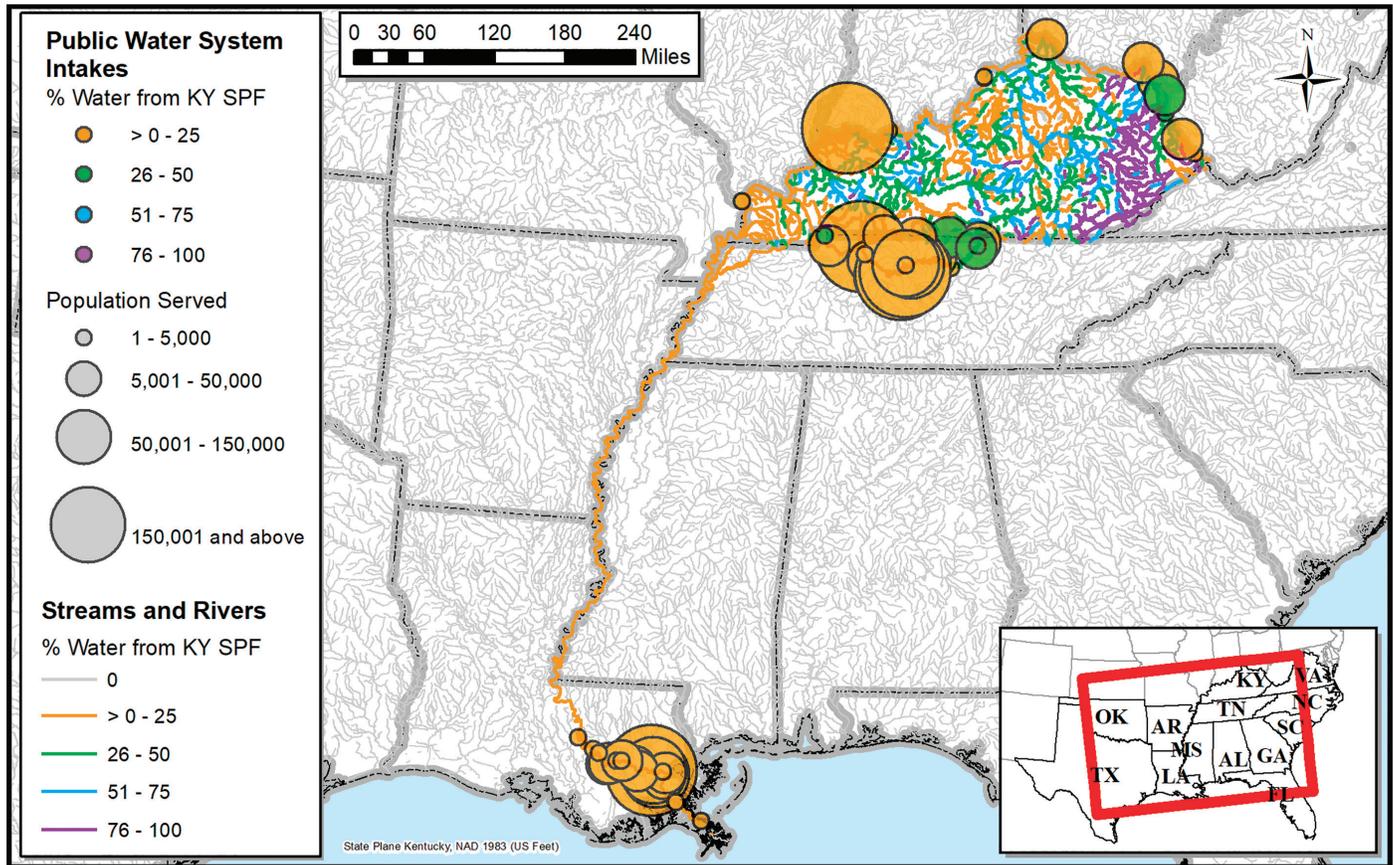


Figure A.KY.7—Kentucky streams by percentage of Kentucky SPF water content, surface drinking water intakes downstream of Kentucky by percentage of Kentucky SPF water content (symbol color), and population served by each of these external intakes (symbol size). A total of 83 surface drinking water intakes outside the State but carrying Kentucky SPF water serve a population of 2,843,724 in 64 communities.

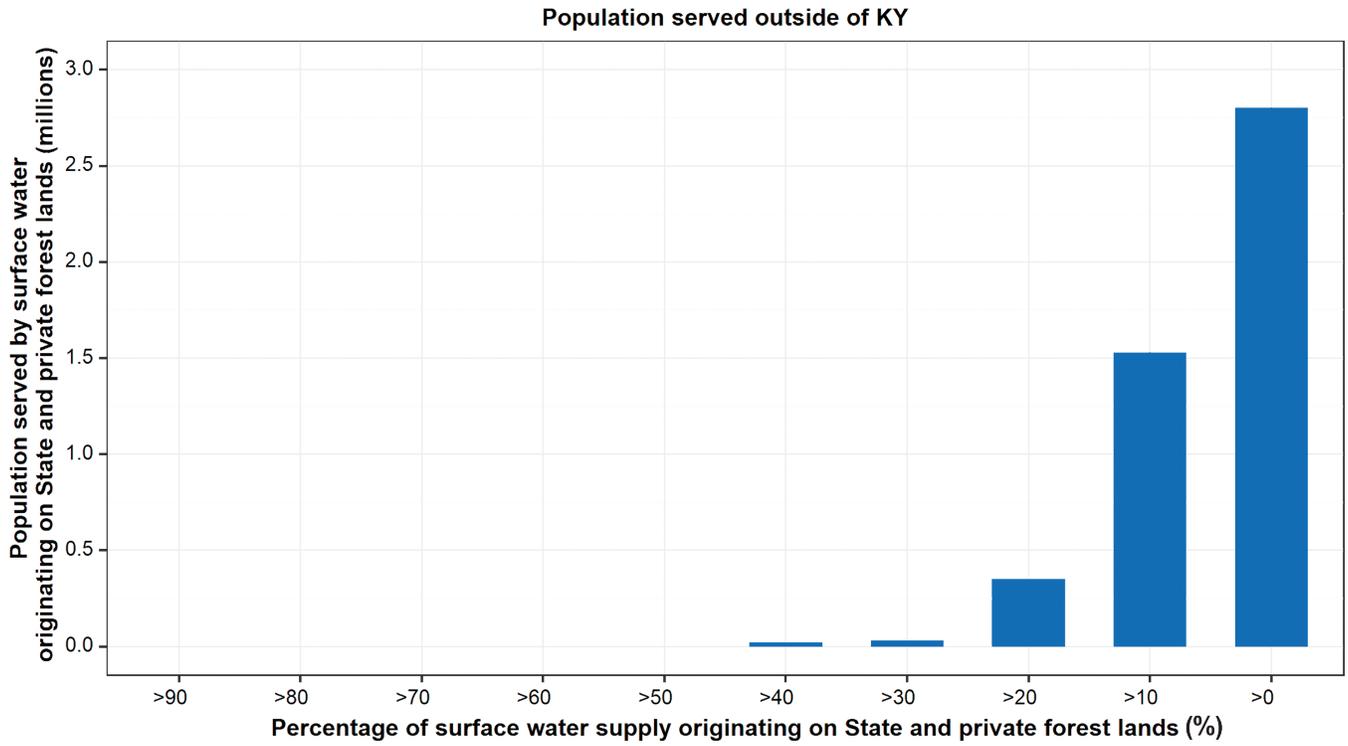


Figure A.KY.8—Cumulative frequency of non-Kentucky population served according to percentage of water coming from Kentucky SPF lands.

### Multi-Intake Public Water System (Aggregated to Single Symbol) Receiving Water from Kentucky State and Private Forests

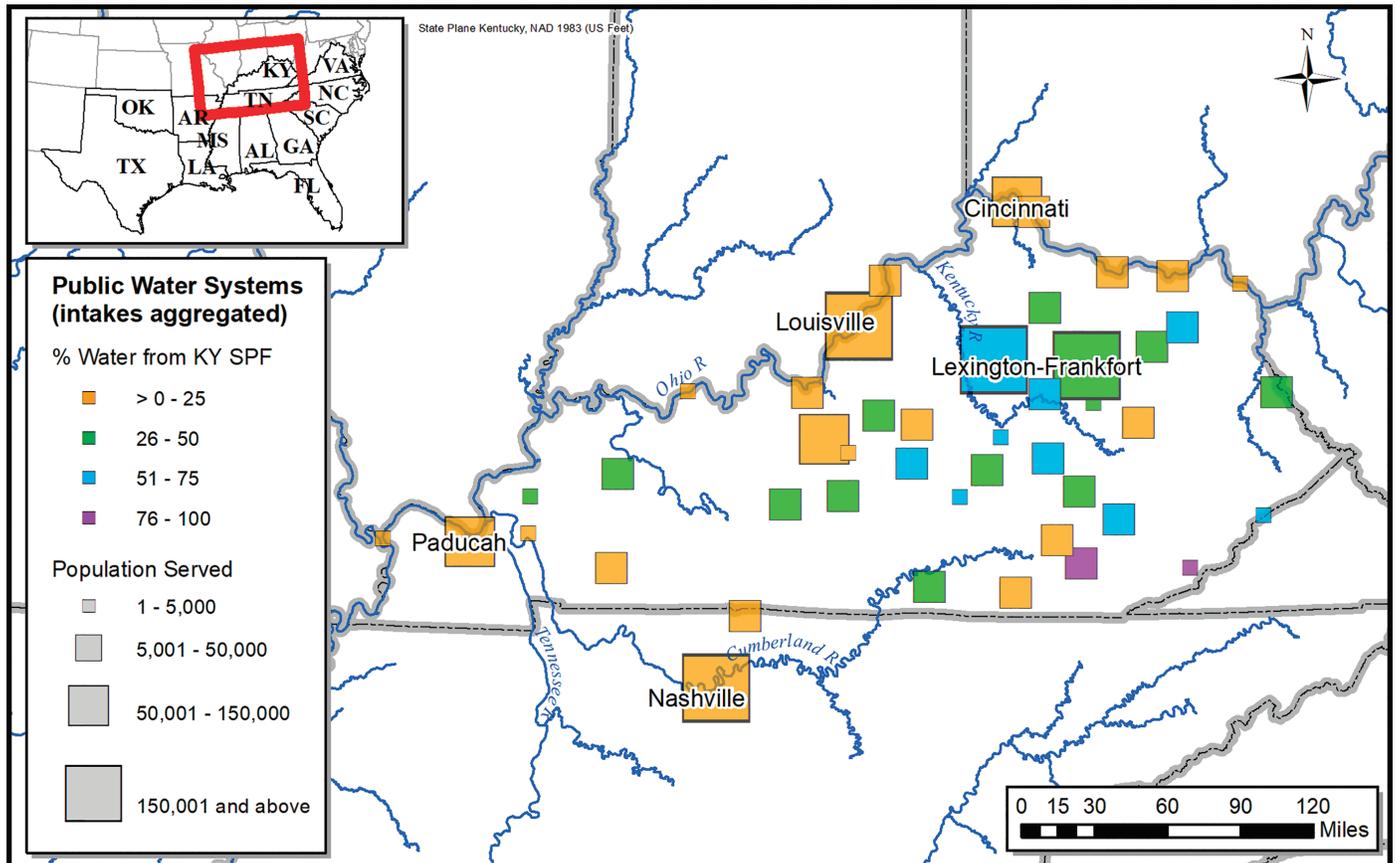


Figure A.KY.9—Multi-intake public water systems aggregated to single data point. Symbol color and size represent values for an entire municipal or corporate water supply system rather than values for individual surface drinking water intakes. Systems with no more than a single surface drinking water intake are not represented on this map.

# Louisville-Lexington Detail

*Streams and Intrastate Public Water System Intakes in Louisville-Lexington, KY, Area Receiving Water from Kentucky State and Private Forests*

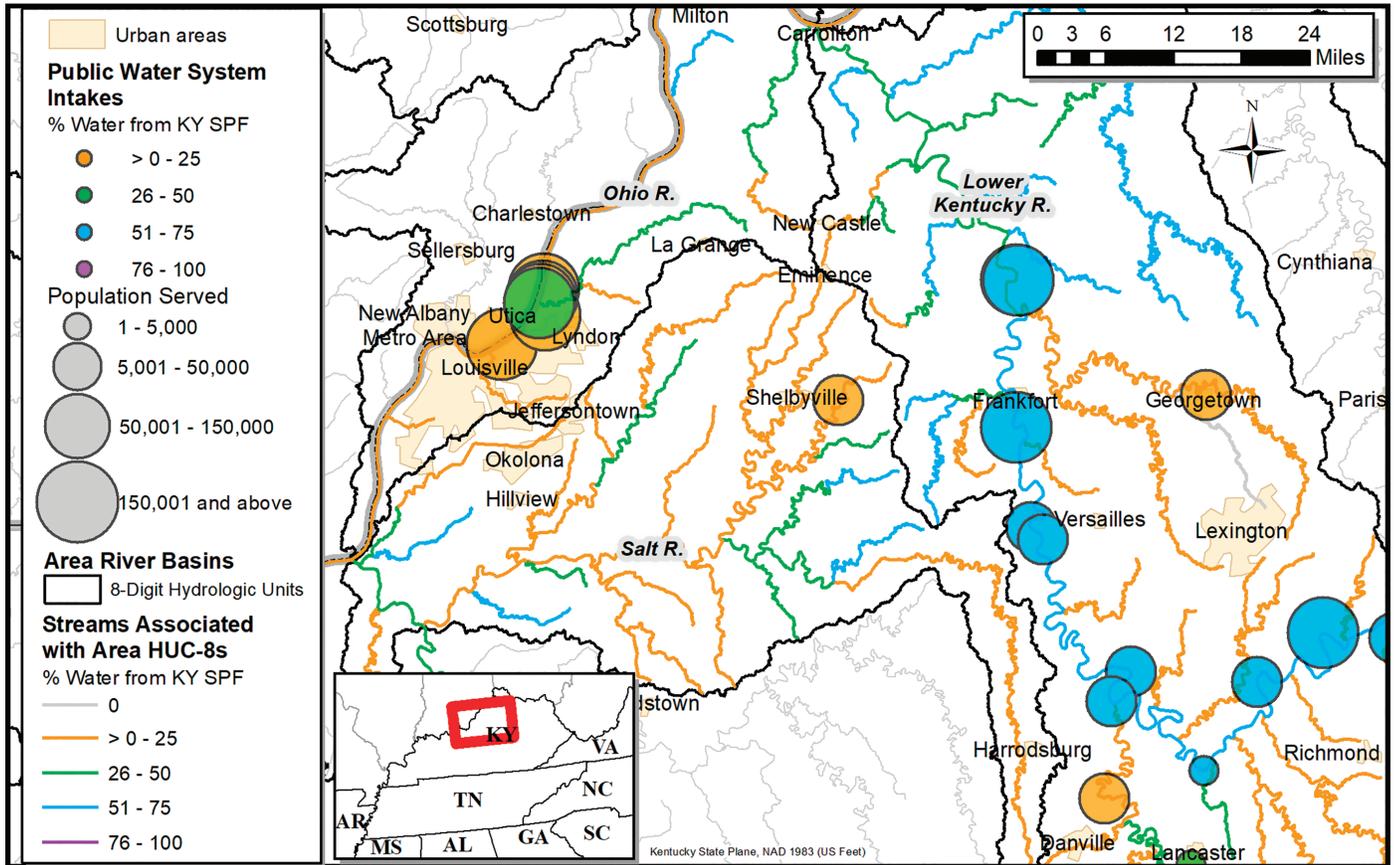


Figure A.KY.10—Local-scale detail showing percentage of water from Kentucky SPF for streams and surface drinking water intakes around Louisville and Lexington, KY.

## Lexington, KY, Case Study

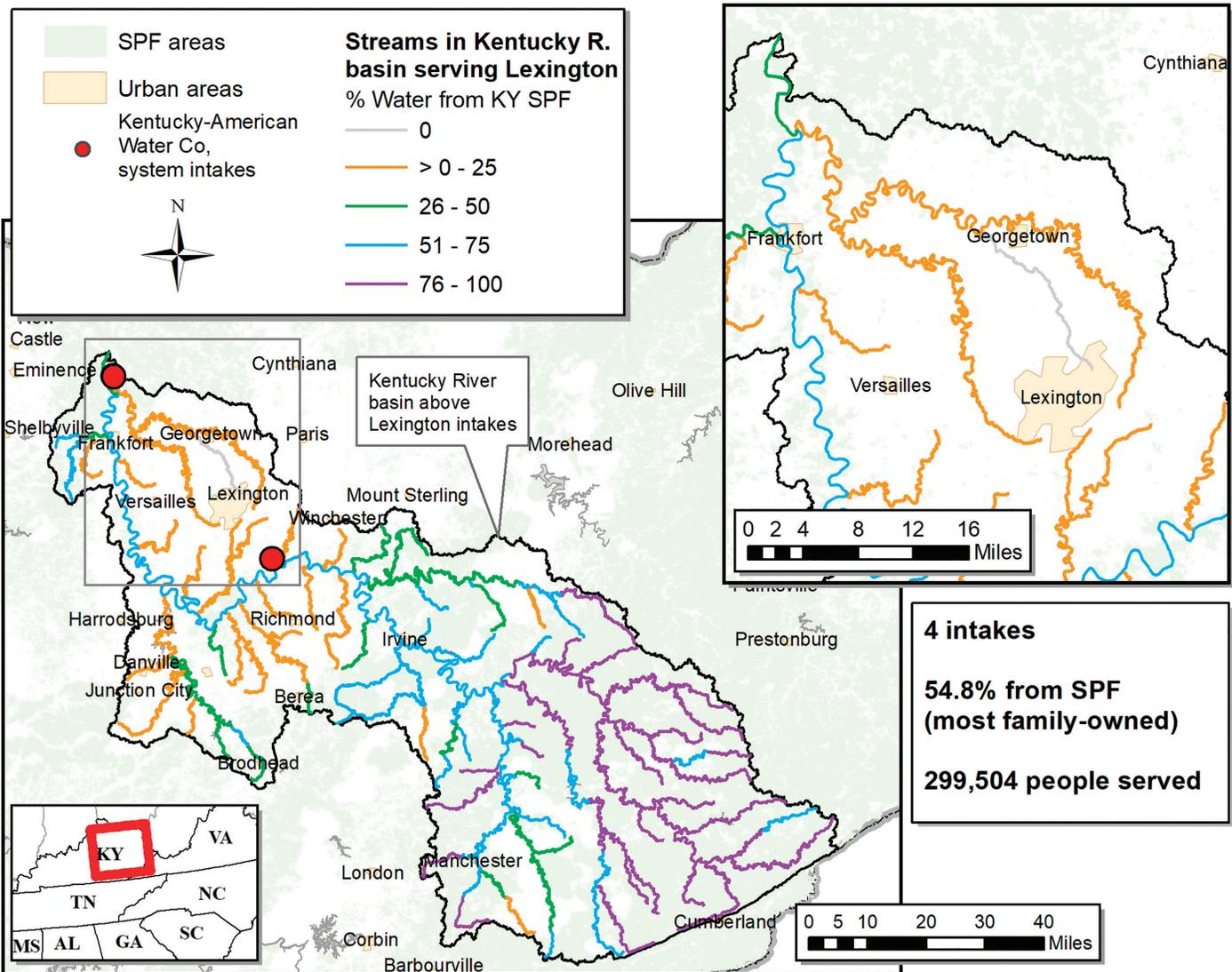


Figure A.KY.11—Case study of the Kentucky-American Water Company Public water supply system, Lexington, KY, illustrating SPF water in streams supplying the four surface drinking water intakes. When this water reaches the intakes, 54.8 percent of it comes from SPF lands. The largest ownership category in these specific SPF lands is family-owned.

Table B.KY.1—Public water system intakes receiving water from State and private forest land in Kentucky

Intake ID	Public water system name	Intake number for system	State	Population served by intake	Total volume of surface water available to intake	Total surface water from State and private forest lands
					(million m <sup>3</sup> yr <sup>-1</sup> )	(percent)
1	ALBANY WATER WORKS	1 of 2	KY	7,351	68	42.4
2	ALBANY WATER WORKS	2 of 2	KY	7,351	68	42.4
3	ASHLAND WATER WORKS		KY	44,402	72 056	2.9
4	BARBOURVILLE WATER & ELECTRIC	1 of 2	KY	8,210	1338	82.2
5	BARBOURVILLE WATER & ELECTRIC	2 of 2	KY	8,210	89	25.7
6	BARDSTOWN MUNICIPAL WATER DEPT	1 of 2	KY	15,593	1013	27.3
7	BARDSTOWN MUNICIPAL WATER DEPT	2 of 2	KY	15,593	952	27.2
8	BARKLEY LAKE WATER DISTRICT		KY	14,284	24 370	16.4
9	BEATTYVILLE WATER WORKS		KY	8,428	2943	73.7
10	BEECH FORK WATER COMMISSION	1 of 2	KY	13	433	44.9
11	BEECH FORK WATER COMMISSION	2 of 2	KY	13	433	44.9
12	BELL COUNTY FORESTRY CAMP		KY	275	53	86.5
13	BENHAM WATER PLANT		KY	855	127	88.5
14	BEREA MUNICIPAL UTILITIES	1 of 4	KY	2,493	44	63
15	BEREA MUNICIPAL UTILITIES	2 of 4	KY	2,493	44	63
16	BEREA MUNICIPAL UTILITIES	3 of 4	KY	2,493	31	42.2
17	BEREA MUNICIPAL UTILITIES	4 of 4	KY	2,493	31	42.2
18	BLUE GRASS ARMY DEPOT		KY	500	39	3.9
19	BOONEVILLE WATER AND SEWER		KY	5,346	876	58.9
20	BOWLING GREEN MUNICIPAL UTILITIES		KY	44,912	2377	22.7
21	BULLOCK PEN WATER DISTRICT		KY	20,048	42	44.8
22	BURKESVILLE WATER WORKS		KY	2,566	8160	39.4
23	BURNSIDE WATER COMPANY		KY	2,284	6553	37.5
24	BUTLER COUNTY WATER SYSTEM INC		KY	14,256	7132	33.2
25	CADIZ MUNICIPAL WATER CO		KY	5,609	868	21.9
26	CALHOUN WATER WORKS		KY	966	10 063	36.2
27	CAMPBELLSVILLE MUNICIPAL WATER		KY	24,874	50	12.2
28	CAMPTON WATER SYSTEM	1 of 2	KY	3,300	24	14.4
29	CAMPTON WATER SYSTEM	2 of 2	KY	3,300	24	14.4
30	CARLISLE WATER DEPARTMENT		KY	2,059	2131	44.9
31	CAVE RUN REGIONAL WT COMM		KY	25	68	30.1
32	CAWOOD WATER DISTRICT		KY	4,428	291	88.7
33	CENTRAL CITY WATER & SEWER		KY	5,601	8439	34.8
34	CENTURY ALUMINUM SEBREE LLC		KY	600	35	14.3
35	COLUMBIA/ADAIR UTILITIES DISTRICT		KY	22,113	935	51.7
36	CRITTENDEN-LIVINGSTON CO WATER DISTRICT		KY	9,571	25 026	16.9
37	CUMBERLAND MUNICIPAL WATER WORKS		KY	3,505	73	85.2
38	CYNTHIANA MUNICIPAL WATER WORKS	1 of 2	KY	3,861	2346	44.4
39	CYNTHIANA MUNICIPAL WATER WORKS	2 of 2	KY	3,861	849	5.3

(continued)

**Table B.KY.1 (continued)—Public water system intakes receiving water from State and private forest land in Kentucky**

Intake ID	Public water system name	Intake number for system	State	Population served by intake	Total volume of surface water available to intake	Total surface water from State and private forest lands
					(million m <sup>3</sup> yr <sup>-1</sup> )	(percent)
40	DANVILLE CITY WATER WORKS		KY	32,600	516	22.2
41	DAWSON SPRINGS WATER & SEWER		KY	3,505	35	73.3
42	EDDYVILLE WATER DEPARTMENT	1 of 2	KY	1,839	24 650	16.5
43	EDDYVILLE WATER DEPARTMENT	2 of 2	KY	1,839	24 650	16.5
44	EDMONSON CO WATER DISTRICT	1 of 2	KY	14,936	3676	37.3
45	EDMONSON CO WATER DISTRICT	2 of 2	KY	14,936	955	23.2
46	EVARTS MUNICIPAL WATER PLANT	1 of 3	KY	1,020	148	90.6
47	EVARTS MUNICIPAL WATER PLANT	2 of 3	KY	1,020	148	90.6
48	EVARTS MUNICIPAL WATER PLANT	3 of 3	KY	1,020	148	90.6
49	FALMOUTH WATER DEPARTMENT		KY	3,861	4170	34.4
50	FLEMING-NEON WATER COMPANY		KY	3,212	33	85.4
51	FLEMINGSBURG UTILITY SYSTEM		KY	4,583	72	8.1
52	FLUOR FEDERAL SERVICES INC.		KY	2,000	259,996	8.3
53	FRANKFORT PLANT BOARD		KY	52,153	6419	50.5
54	FRANKLIN WATER WORKS		KY	13,068	229	3.3
55	GEORGETOWN MUNICIPAL WATER SERVICE		KY	35,714	295	1.8
56	GLADIE HISTORIC SITE		KY	25	60	67
57	GLASGOW WATER COMPANY		KY	36,766	96	13.6
58	GRAYSON COUNTY WATER DISTRICT		KY	20,033	165	28
59	GRAYSON UTILITY COMMISSION		KY	10,950	38	13.9
60	GREEN RIVER VALLEY WATER DISTRICT	1 of 2	KY	8,716	2267	44.2
61	GREEN RIVER VALLEY WATER DISTRICT	2 of 2	KY	8,716	2336	44.1
62	GREENSBURG WATER WORKS		KY	2,396	1438	44.6
63	GREENUP WATER SYSTEM		KY	12,193	804	71.1
64	GREENVILLE UTILITIES COMMISSION		KY	5,649	103	37
65	HARDIN CO. WATER DIST #1/FT. KNOX	1 of 5	KY	4,720	153	12.3
66	HARDIN CO. WATER DIST #1/FT. KNOX	2 of 5	KY	4,720	153	12.3
67	HARDIN CO. WATER DIST #1/FT. KNOX	3 of 5	KY	4,720	113,446	9.9
68	HARDIN CO. WATER DIST #1/FT. KNOX	4 of 5	KY	4,720	113,446	9.9
69	HARDIN CO. WATER DIST #1/FT. KNOX	5 of 5	KY	4,720	556	9.6
70	HARDIN COUNTY WATER DISTRICT #1	1 of 4	KY	6,759	78	34.9
71	HARDIN COUNTY WATER DISTRICT #1	2 of 4	KY	6,759	78	34.9
72	HARDIN COUNTY WATER DISTRICT #1	3 of 4	KY	6,759	78	34.9
73	HARDIN COUNTY WATER DISTRICT #1	4 of 4	KY	6,759	113,446	9.9
74	HARDIN COUNTY WATER DISTRICT #2	1 of 9	KY	8,481	556	9.6
75	HARDIN COUNTY WATER DISTRICT #2	2 of 9	KY	8,481	142	8.9
76	HARDIN COUNTY WATER DISTRICT #2	3 of 9	KY	8,481	142	8.9
77	HARDIN COUNTY WATER DISTRICT #2	4 of 9	KY	8,481	142	8.9

(continued)

**Table B.KY.1 (continued)—Public water system intakes receiving water from State and private forest land in Kentucky**

Intake ID	Public water system name	Intake number for system		Population served by intake	Total volume of surface water available to intake (million m <sup>3</sup> yr <sup>-1</sup> )	Total surface water from State and private forest lands (percent)
			State			
78	HARDIN COUNTY WATER DISTRICT #2	5 of 9	KY	8,481	142	8.9
79	HARDIN COUNTY WATER DISTRICT #2	6 of 9	KY	8,481	142	8.9
80	HARDIN COUNTY WATER DISTRICT #2	7 of 9	KY	8,481	142	8.9
81	HARDIN COUNTY WATER DISTRICT #2	8 of 9	KY	8,481	142	8.9
82	HARDIN COUNTY WATER DISTRICT #2	9 of 9	KY	8,481	142	8.9
83	HARLAN MUNICIPAL WATER WORKS		KY	4,574	477	88.4
84	HARRODSBURG MUNICIPAL WATER DEPARTMENT		KY	8,310	6090	52.3
85	HARTFORD MUNICIPAL WATER WORKS		KY	3,119	1419	47
86	HAZARD WATER DEPARTMENT		KY	26,730	538	84.6
87	HENDERSON MUNICIPAL WATER & SEWER		KY	31,705	130,549	12.3
88	HENDERSON WATER UTILITY/SOUTH		KY	54	11 444	36
89	HODGENVILLE WATER WORKS	1 of 2	KY	2,315	32	13.7
90	HODGENVILLE WATER WORKS	2 of 2	KY	2,315	147	6.5
91	HOPKINSVILLE WATER ENVIRONMENTAL AUTH	1 of 3	KY	13,784	868	21.9
92	HOPKINSVILLE WATER ENVIRONMENTAL AUTH	2 of 3	KY	13,784	191	14.4
93	HOPKINSVILLE WATER ENVIRONMENTAL AUTH	3 of 3	KY	13,784	191	14.4
94	HYDEN LESLIE CO WATER DISTRICT		KY	9,614	246	75
95	IRVINE MUNICIPAL UTILITIES		KY	5,649	3590	70.5
96	JACKSON CO WATER ASSOCIATION	1 of 2	KY	6,815	179	48
97	JACKSON CO WATER ASSOCIATION	2 of 2	KY	6,815	18	14.8
98	JACKSON MUNICIPAL WATER WORKS		KY	4,704	1251	82.7
99	JAMESTOWN MUNICIPAL WATER WORKS		KY	9,684	60	29.9
100	JENKINS WATER SYSTEM	1 of 3	KY	870	27	57.7
101	JENKINS WATER SYSTEM	2 of 3	KY	870	27	57.7
102	JENKINS WATER SYSTEM	3 of 3	KY	870	27	57.7
103	KENTUCKY-AMERICAN WATER CO	1 of 4	KY	74,876	82	70
104	KENTUCKY-AMERICAN WATER CO	2 of 4	KY	74,876	4730	61.2
105	KENTUCKY-AMERICAN WATER CO	3 of 4	KY	74,876	4730	61.2
106	KENTUCKY-AMERICAN WATER CO	4 of 4	KY	74,876	7358	46.4
107	KENTUCKY STATE PENITENTIARY		KY	1,200	24 650	16.5
108	KINGDOM COME STATE PARK		KY	250	115	32.3
109	KNOTT CO WATER & SEWER DISTRICT		KY	7,056	62	82.1
110	KNOX COUNTY UTILITY COMMISSION		KY	8,313	1012	83
111	KUTTAWA WATER DEPARTMENT		KY	1,143	24 720	16.6
112	LANCASTER WATER WORKS	1 of 2	KY	2,287	5229	57.9
113	LANCASTER WATER WORKS	2 of 2	KY	2,287	439	25.7
114	LAUREL CO WATER DISTRICT #2		KY	17,520	115	32.3
115	LAWRENCEBURG WATER & SEWER DEPT		KY	14,748	6326	51.1
116	LEBANON WATER WORKS CO INC	1 of 2	KY	3,821	338	65.6
117	LEBANON WATER WORKS CO INC	2 of 2	KY	3,821	338	65.6
118	LEDBETTER WATER DISTRICT		KY	3,742	259,689	8.3
119	LEITCHFIELD WATER WORKS		KY	8,438	349	39.1

(continued)

**Table B.KY.1 (continued)—Public water system intakes receiving water from State and private forest land in Kentucky**

Intake ID	Public water system name	Intake number for system	State	Population served by intake	Total volume of surface water available to intake	Total surface water from State and private forest lands
					(million m <sup>3</sup> yr <sup>-1</sup> )	(percent)
120	LIBERTY WATER WORKS	1 of 2	KY	1,151	196	54.1
121	LIBERTY WATER WORKS	2 of 2	KY	1,151	196	54.1
122	LIVERMORE WATER WORKS		KY	2,138	10 063	36.2
123	LOGAN-TODD REGIONAL WATER COMMISSION		KY	36	119	7.7
124	LONDON UTILITY COMMISSION	1 of 2	KY	5,302	382	22.3
125	LONDON UTILITY COMMISSION	2 of 2	KY	5,302	56	10.1
126	LOUISA WATER DEPARTMENT		KY	8,236	2374	48.8
127	LOUISVILLE WATER COMPANY	1 of 7	KY	109,253	167	27.1
128	LOUISVILLE WATER COMPANY	2 of 7	KY	109,253	108,601	9.1
129	LOUISVILLE WATER COMPANY	3 of 7	KY	109,253	108,601	9.1
130	LOUISVILLE WATER COMPANY	4 of 7	KY	109,253	108,366	9
131	LOUISVILLE WATER COMPANY	5 of 7	KY	109,253	108,366	9
132	LOUISVILLE WATER COMPANY	6 of 7	KY	109,253	108,366	9
133	LOUISVILLE WATER COMPANY	7 of 7	KY	109,253	108,366	9
134	LYNCH WATER WORKS		KY	1,078	127	88.5
135	MADISONVILLE LIGHT & WATER	1 of 2	KY	14,051	11 195	36.3
136	MADISONVILLE LIGHT & WATER	2 of 2	KY	14,051	106	30.5
137	MANCHESTER WATER WORKS	1 of 3	KY	3,783	277	68.3
138	MANCHESTER WATER WORKS	2 of 3	KY	3,783	332	66.5
139	MANCHESTER WATER WORKS	3 of 3	KY	3,783	332	66.5
140	MARION WATER DEPARTMENT	1 of 2	KY	1,520	30	28.1
141	MARION WATER DEPARTMENT	2 of 2	KY	1,520	30	28.1
142	MARTIN CO WATER DISTRICT #1	1 of 2	KY	4,752	32	62.3
143	MARTIN CO WATER DISTRICT #1	2 of 2	KY	4,752	1732	31.5
144	MAYSVILLE UTILITY COMMISSION		KY	13,600	82 245	4.1
145	MCCREARY COUNTY WATER DISTRICT	1 of 2	KY	8,766	120	16.3
146	MCCREARY COUNTY WATER DISTRICT	2 of 2	KY	8,766	1837	6.1
147	MCKEE WATER WORKS		KY	1,331	27	30.2
148	MONTICELLO WATER & SEWER COMMISSION		KY	24,057	7044	37.2
149	MOREHEAD STATE UNIVERSITY	1 of 2	KY	3,250	218	34.4
150	MOREHEAD STATE UNIVERSITY	2 of 2	KY	3,250	218	34.4
151	MOREHEAD UTILITY PLANT BOARD		KY	9,052	1264	53
152	MORGANFIELD WATER WORKS		KY	5,170	130,758	12.3
153	MORGANTOWN WATER SYSTEM		KY	2,628	7132	33.2
154	MOUNTAIN WATER DIST		KY	48,286	747	13.5
155	MT STERLING WATER WORKS		KY	16,391	180	36.4
156	MT VERNON WATER WORKS		KY	4,951	122	57.2
157	NICHOLASVILLE WATER DEPARTMENT		KY	34,253	5229	57.9
158	NORTHERN KENTUCKY WATER DISTRICT	1 of 2	KY	99,730	246	75
159	NORTHERN KENTUCKY WATER DISTRICT	2 of 2	KY	99,730	4660	35.2
160	OHIO COUNTY WATER DISTRICT		KY	14,733	7490	34.1
161	OLIVE HILL MUNICIPAL WATER WORKS	1 of 2	KY	3,096	85	64.2
162	OLIVE HILL MUNICIPAL WATER WORKS	2 of 2	KY	3,096	85	64.2
163	PADUCAH WATER WORKS	1 of 7	KY	9,145	810	16.9
164	PADUCAH WATER WORKS	2 of 7	KY	9,145	810	16.9

(continued)

**Table B.KY.1 (continued)—Public water system intakes receiving water from State and private forest land in Kentucky**

Intake ID	Public water system name	Intake number for system	State	Population served by intake	Total volume of surface water available to intake	Total surface water from State and private forest lands
					(million m <sup>3</sup> yr <sup>-1</sup> )	(percent)
165	PADUCAH WATER WORKS	3 of 7	KY	9,145	810	16.9
166	PADUCAH WATER WORKS	4 of 7	KY	9,145	259,689	8.3
167	PADUCAH WATER WORKS	5 of 7	KY	9,145	57 884	0.6
168	PADUCAH WATER WORKS	6 of 7	KY	9,145	57 884	0.6
169	PADUCAH WATER WORKS	7 of 7	KY	9,145	57 884	0.6
170	PAINTSVILLE MUNICIPAL WATER WORKS		KY	24,354	102	87.4
171	PARIS WATER WORKS		KY	14,479	335	2.2
172	PERDUE FARMS INC		KY	1,200	7490	34.1
173	PIKEVILLE WATER DEPARTMENT		KY	12,700	1356	24.2
174	PINE MT SETTLEMENT SCHOOL		KY	45	86	87.3
175	PINEVILLE WATER SYSTEM		KY	16,573	129	62
176	PRESTONSBURG CITY UTILITIES		KY	20,368	1773	37.8
177	PRINCETON WATER & SEWER COMMISSION		KY	7,007	24 650	16.5
178	PROVIDENCE WATER WORKS		KY	4,538	882	49
179	RICHMOND UTILITIES		KY	35,640	4289	65.9
180	RUSSELL WATER COMPANY		KY	6,810	72 205	2.9
181	SALYERSVILLE MUNICIPAL WATER		KY	3,029	195	86.2
182	SCOTTSVILLE WATER DEPARTMENT		KY	6,864	716	24.4
183	SHELBYVILLE WATER & SEWER COMMISSION		KY	23,760	90	20.4
184	SOMERSET WATER SERVICE		KY	29,700	6993	37.3
185	SOUTHERN WATER & SEWER DISTRICT		KY	22,480	1436	27.1
186	SPRINGFIELD WATER WORKS	1 of 2	KY	6,603	51	40.8
187	SPRINGFIELD WATER WORKS	2 of 2	KY	6,603	119	3.1
188	STANFORD WATER WORKS	1 of 2	KY	4,642	29	70.8
189	STANFORD WATER WORKS	2 of 2	KY	4,642	34	15.6
190	TOMPKINSVILLE WATER WORKS		KY	2,404	46	32.2
191	VANCEBURG ELECTRIC PLANT BOARD	1 of 6	KY	1,154	81 383	3.9
192	VANCEBURG ELECTRIC PLANT BOARD	2 of 6	KY	1,154	81 383	3.9
193	VANCEBURG ELECTRIC PLANT BOARD	3 of 6	KY	1,154	81 383	3.9
194	VANCEBURG ELECTRIC PLANT BOARD	4 of 6	KY	1,154	81 383	3.9
195	VANCEBURG ELECTRIC PLANT BOARD	5 of 6	KY	1,154	81 383	3.9
196	VANCEBURG ELECTRIC PLANT BOARD	6 of 6	KY	1,154	81 383	3.9
197	VERSAILLES WATER SYSTEM		KY	17,822	6326	51.1
198	WATER SERVICE CORPORATION OF KENTUCKY		KY	18,343	75	60.4
199	WEBSTER CO WATER DISTRICT		KY	5,940	11 224	36.2
200	WEST LIBERTY WATER COMPANY		KY	2,367	115	35.9
201	WESTERN FLEMING WATER DISTRICT		KY	4,262	2191	44.9
202	WESTERN LEWIS RECTORVILLE WATER DISTRICT	1 of 2	KY	3,267	82 245	4.1
203	WESTERN LEWIS RECTORVILLE WATER DISTRICT	2 of 2	KY	3,267	82 245	4.1
204	WHITESBURG WATER WORKS		KY	3,861	77	82.9
205	WILLIAMSBURG WATER DEPARTMENT		KY	5,554	2099	67.3
206	WILLIAMSTOWN MUNICIPAL WATER DEPT		KY	5,495	59	41.3
207	WILMORE WATER WORKS		KY	5,762	6090	52.3
208	WINCHESTER MUNICIPAL UTILITIES	1 of 2	KY	16,107	4606	62.6
209	WINCHESTER MUNICIPAL UTILITIES	2 of 2	KY	16,107	4730	61.2

*(continued)*

**Table B.KY.1 (continued)—Public water system intakes receiving water from State and private forest land in Kentucky**

Intake ID	Public water system name	Intake number for system	State	Population served by intake	Total volume of surface water available to intake	Total surface water from State and private forest lands
					(million m <sup>3</sup> yr <sup>-1</sup> )	(percent)
210	WOOD CREEK WATER DISTRICT		KY	14,345	71	36.6
211	WOODSON BEND PROPERTY OWNERS ASSOC		KY	1,455	2176	15
212	WORTHINGTON MUNICIPAL WATER WORKS	1 of 3	KY	558	72 205	2.9
213	WORTHINGTON MUNICIPAL WATER WORKS	2 of 3	KY	558	72 205	2.9
214	WORTHINGTON MUNICIPAL WATER WORKS	3 of 3	KY	558	72 205	2.9
215	IL AMERICAN-CAIRO	1 of 3	IL	974	260,792	8.3
216	IL AMERICAN-CAIRO	2 of 3	IL	974	260,792	8.3
217	IL AMERICAN-CAIRO	3 of 3	IL	974	260,792	8.3
218	EVANSVILLE WATER UTILITY		IN	162,000	130,549	12.3
219	MOUNT VERNON WATER WORKS		IN	8,912	130,758	12.3
220	SANTA CLAUS WATER UTILITY	1 of 2	IN	1,842	116,536	10
221	SANTA CLAUS WATER UTILITY	2 of 2	IN	1,842	116,536	10
222	STUCKER FORK WATER UTILITY	1 of 4	IN	3,775	107,972	9
223	STUCKER FORK WATER UTILITY	2 of 4	IN	3,775	107,972	9
224	STUCKER FORK WATER UTILITY	3 of 4	IN	3,775	107,972	9
225	STUCKER FORK WATER UTILITY	4 of 4	IN	3,775	107,972	9
226	ALMATIS		LA	400	709,254	3.1
227	BELLE CHASSE WATER DISTRICT		LA	17,391	709,344	3.1
228	DALCOUR WATERWORKS DISTRICT		LA	925	709,344	3.1
229	DOMINO SUGAR		LA	360	709,344	3.1
230	DOW USA, LA DIVISION		LA	3,960	709,151	3.1
231	E JEFFERSON WW DISTRICT 1		LA	243,782	709,344	3.1
232	GRAMERCY WATERWORKS		LA	3,613	709,254	3.1
233	GRETNA WATERWORKS		LA	17,802	709,344	3.1
234	LUTCHER WATERWORKS		LA	4,781	709,254	3.1
235	MARATHON PETROLEUM COMPANY LLC		LA	817	709,254	3.1
236	NEW ORLEANS CARROLLTON WW	1 of 2	LA	145,522	709,344	3.1
237	NEW ORLEANS CARROLLTON WW	2 of 2	LA	145,522	709,344	3.1
238	NEW ORLEANS ALGIERS WATER WORKS	1 of 2	LA	26,393	709,344	3.1
239	NEW ORLEANS ALGIERS WATER WORKS	2 of 2	LA	26,393	709,344	3.1
240	NORANDA ALUMINA, LLC		LA	500	709,254	3.1
241	POINTE A LA HACHE WATER SYSTEM		LA	653	709,344	3.1
242	PORT SULPHUR WATER DISTRICT	1 of 2	LA	4,611	709,344	3.1
243	PORT SULPHUR WATER DISTRICT	2 of 2	LA	4,611	709,398	3.1
244	SHELL CHEMICAL COMPANY		LA	1,002	709,254	3.1
245	ST BERNARD PARISH WATERWORKS		LA	44,000	709,344	3.1
246	ST CHARLES WATER DISTRICT 1 EAST BANK		LA	29,517	709,344	3.1
247	ST CHARLES WATER DISTRICT 2 WEST BANK		LA	31,485	709,344	3.1
248	ST JAMES WATER DISTRICT 1		LA	6,120	709,254	3.1
249	ST JAMES WATER DISTRICT 2		LA	9,392	709,254	3.1
250	ST JOHN WATER DISTRICT 1		LA	12,577	709,254	3.1
251	ST JOHN WATER DISTRICT 2		LA	3,702	709,254	3.1
252	W JEFFERSON WW DISTRICT 2	1 of 2	LA	94,385	709,344	3.1
253	W JEFFERSON WW DISTRICT 2	2 of 2	LA	94,385	709,344	3.1
254	CINCINNATI PUBLIC WATER SYSTEM	1 of 3	OH	44,059	83 376	4.3

(continued)

**Table B.KY.1 (continued)—Public water system intakes receiving water from State and private forest land in Kentucky**

Intake ID	Public water system name	Intake number for system	State	Population served by intake	Total volume of surface water available to intake	Total surface water from State and private forest lands
					(million m <sup>3</sup> yr <sup>-1</sup> )	(percent)
255	CINCINNATI PUBLIC WATER SYSTEM	2 of 3	OH	44,059	83 376	4.3
256	CINCINNATI PUBLIC WATER SYSTEM	3 of 3	OH	44,059	83 376	4.3
257	CLERMONT PUBLIC WATER SYSTEM	1 of 6	OH	4,539	83 376	4.3
258	CLERMONT PUBLIC WATER SYSTEM	2 of 6	OH	4,539	83 376	4.3
259	CLERMONT PUBLIC WATER SYSTEM	3 of 6	OH	4,539	83 376	4.3
260	CLERMONT PUBLIC WATER SYSTEM	4 of 6	OH	4,539	83 376	4.3
261	CLERMONT PUBLIC WATER SYSTEM	5 of 6	OH	4,539	83 376	4.3
262	CLERMONT PUBLIC WATER SYSTEM	6 of 6	OH	4,539	83 376	4.3
263	IRONTON PWS		OH	11,129	72 205	2.9
264	PORTSMOUTH PUBLIC WATER SYSTEM		OH	40,475	80 988	3.6
265	ADAMS-CEDAR HILL WATER SYSTEM		TN	5,422	1274	3.1
266	BUMPUS MILLS MARINA WATER SYSTEM		TN	25	72	44.3
267	CARTHAGE WATER SYSTEM		TN	2,916	15 296	23.6
268	CELINA WATER SYSTEM		TN	5,721	1446	6.1
269	CLARKSVILLE WATER DEPARTMENT		TN	206,500	20 423	17.7
270	CUNNINGHAM EAST MONT WAT TR PL		TN	25	20 341	17.8
271	DOVER WATER DEPT		TN	4,011	23 134	15.9
272	E.I. DUPONT, OLD HICKORY		TN	626	16 457	21.9
273	GAINESBORO WATER SYSTEM		TN	1,492	10 861	33.2
274	GALLATIN WATER DEPARTMENT		TN	45,544	16 213	22.3
275	HARPETH VALLEY U D		TN	59,392	18 524	19.5
276	HARTSVILLE-TROUDALE WAT/SEW U D		TN	9,036	15 625	23.1
277	HENDERSONVILLE U D		TN	51,663	16 457	21.9
278	LAFAYETTE WATER SYSTEM		TN	9,334	39	42.9
279	LEBANON WATER SYSTEM		TN	35,609	15 876	22.7
280	LIVINGSTON WATER DEPT		TN	7,107	10 268	35.2
281	MADISON SUBURBAN UD		TN	69,093	18 232	19.8
282	NASHVILLE WATER DEPT	1 of 2	TN	318,608	18 232	19.8
283	NASHVILLE WATER DEPT	2 of 2	TN	318,608	18 327	19.7
284	NORTH STEWART UTILITY DISTRICT		TN	5,484	23 134	15.9
285	NORTHWEST CLAY COUNTY UTILITY		TN	3,948	10 183	35.5
286	PORTLAND WATER SYSTEM	1 of 2	TN	10,423	149	2.9
287	PORTLAND WATER SYSTEM	2 of 2	TN	10,423	149	2.9
288	SPRINGFIELD WATER SYSTEM		TN	38,472	793	3.9
289	WATER AUTH. OF DICKSON COUNTY		TN	18,396	20 136	17.9
290	WEST WILSON UTILITY DISTRICT		TN	68,879	16 457	21.9
291	WHITE HOUSE UTILITY DISTRICT		TN	93,888	16 457	21.9
292	FORT GAY WATER WORKS		WV	2,287	4161	41.5
293	KENOVA MUNICIPAL WATER		WV	9,094	4559	44.4
294	KERMIT WATER WORKS		WV	1,330	1549	26.3
295	MATEWAN WATER WORKS		WV	2,237	1003	14.6
296	MINGO COUNTY PSD - NAUGATUCK		WV	6,324	1395	22.8
297	WILLIAMSON UTILITY BOARD		WV	3,390	1395	22.8