

KAW_R_PSCDR2#12a_SCH2_021402
2/14/02

* NOTE: Revised to reflect actual 1986-1993 year-end billed usage & revised population projections per U of L Urban Studies Center.

FOR SAME CONDITIONS UNDER HOT, DRY SCENARIO:

TOTAL SYSTEM USAGE (mgd).....	31.48	33.44	33.07	31.45	32.41	33.28	32.61	34.77	34.81	35.11	35.36	35.53	35.68	35.82	36.00	36.57	37.15	37.72	37.15
LOSSES AND NON-REVENUE USE (%)	16.90%	17.60%	15.00%	12.30%	11.60%	15.40%	16.10%	16.47%	14.80%	14.80%	14.80%	14.80%	14.80%	14.80%	14.80%	14.80%	14.80%	14.80%	14.80%
LOSSES AND NON-REVENUE USE (mgd).....	6.40	7.14	5.84	4.41	4.25	6.06	6.26	6.85	6.05	6.10	6.14	6.17	6.20	6.22	6.25	6.35	6.45	6.55	6.45
PLUMBING CODE IMPACTS (mgd)	0.00	0.00	0.00	0.00	0.00	0.00	-0.18	-0.36	-0.54	-0.72	-0.91	-1.08	-1.26	-1.43	-1.61	-2.49	-3.38	-3.38	-3.38
TOTAL AVERAGE DAY DEMAND (mgd).....	37.89	40.58	38.91	35.86	36.66	39.34	38.87	41.26	40.31	40.49	40.60	40.62	40.61	40.61	40.64	40.43	40.22	40.90	40.22
MAX DAY: 95% EXCEEDANCE (mgd)	63.65	68.18	65.37	60.25	61.59	66.09	65.43	69.56	68.09	68.51	68.82	68.98	69.09	69.20	69.37	69.62	69.87	71.01	69.87
ACTUAL MAXIMUM DAY (mgd)	57.47	54.89	63.91	47.72	58.52	56.42	47.22	59.49											
CONSERVATION IMPACTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-1.36	-1.56	-1.89	-2.24	-2.58	-2.69	-2.74	-2.76	-2.78	-2.76
TOTAL AVERAGE DAY DEMAND (mgd).....	37.89	40.58	38.91	35.86	36.66	39.34	38.87	41.26	40.30	39.12	39.03	38.73	38.38	38.04	37.95	37.69	37.46	38.12	37.46
DROUGHT AVG. DAY DEMAND: 95% EXCD. (m)	45	48	46	42	43	47	46	49	48	46	46	46	45	45	45	45	44	45	44
MAX DAY: 95% EXCEEDANCE (mgd).....	63.65	68.18	65.37	60.25	61.59	66.09	65.43	69.56	68.09	67.14	67.23	67.03	66.76	66.54	66.58	66.79	67.02	68.14	67.02
IN PLANT USE(mgd)	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
TOTAL MAX DAY PRODUCTION (mgd)[95%excd	59.07	56.49	65.51	49.32	60.12	58.02	48.82	61.09	69.69	68.74	68.83	68.63	68.36	68.14	68.18	68.39	68.62	69.74	68.62
SURROUNDING COUNTIES--INDIVIDUAL CUSTOMER																			
WATER DEMAND	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2005	2010	2015	2020
WOODFORD COUNTY																			
Population	18884	19076	19900	19928	19955	20239	20522	20806	21089	21373	21630	21887	22144	22401	22660	23591	24521	24979	25437
No. of resid. connections	138	137	142	139	141	142	144	146	148	151	152	154	155	157	160	167	173	176	180
Per capita use (GPD)	85.55	89.11	85.17	76.10	79.49	82.88	81.98	79.57	79.15	78.94	78.94	78.94	78.94	78.94	78.94	78.94	78.94	78.94	78.94
Persons per household	2.80	2.80	2.81	2.79	2.76	2.74	2.72	2.69	2.67	2.65	2.63	2.61	2.60	2.58	2.56	2.50	2.43	2.38	2.33
WOODFORD CO. WATER DEMAND (in MGD)....	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SCOTT COUNTY																			
Population	22689	23501	22760	23314	23867	24108	24349	24589	24830	25071	25291	25510	25730	25949	26169	26999	27829	28335	28841
No. of resid. connections	1055	1149	1287	1373	1446	1507	1567	1630	1695	1712	1727	1742	1757	1772	1787	1843	1900	1934	1969
Per capita use (GPD)	85.55	89.11	85.17	76.10	79.49	82.88	81.98	79.57	79.15	78.94	78.94	78.94	78.94	78.94	78.94	78.94	78.94	78.94	78.94
Persons per household	2.90	2.90	2.77	2.76	2.74	2.73	2.72	2.70	2.69	2.68	2.66	2.65	2.63	2.62	2.60	2.55	2.50	2.46	2.42
SCOTT CO. WATER DEMAND (in MGD).....	0.26	0.30	0.30	0.29	0.31	0.34	0.35	0.35	0.36	0.36	0.36	0.36	0.36	0.37	0.37	0.37	0.37	0.38	0.38
BOURBON COUNTY																			
Population	19188	19088	18978	19277	19236	19272	19307	19343	19378	19414	19438	19461	19485	19508	19532	19647	19762	19860	19958
No. of resid. connections	394	391	394	407	409	419	420	421	421	422	423	423	424	424	425	427	430	432	434
Per capita use (GPD)	85.55	89.11	85.17	76.10	79.49	82.88	81.98	79.57	79.15	78.94	78.94	78.94	78.94	78.94	78.94	78.94	78.94	78.94	78.94
Persons per household	2.70	2.70	2.73	2.72	2.70	2.69	2.67	2.66	2.64	2.63	2.62	2.60	2.59	2.57	2.56	2.51	2.45	2.41	2.36
BOURBON CO. WATER DEMAND (in MGD).....	0.09	0.09	0.09	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.08
HARRISON COUNTY																			
Population	15722	15907	15887	16195	16248	16371	16494	16618	16741	16864	16974	17084	17193	17303	17413	17841	18269	18510	18751
No. of resid. connections	73	78	80	80	80	78	79	79	80	83	81	81	82	82	86	88	90	91	92
Per capita use (GPD)	85.55	89.11	85.17	76.10	79.49	82.88	81.98	79.57	79.15	78.94	78.94	78.94	78.94	78.94	78.94	78.94	78.94	78.94	78.94
Persons per household	2.70	2.70	2.71	2.70	2.69	2.68	2.68	2.67	2.67	2.66	2.65	2.64	2.63	2.62	2.61	2.57	2.52	2.49	2.45
HARRISON CO. WATER DEMAND (in MGD).....	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
INDIVIDUAL CUSTOMER																			
TOTAL WATER DEMAND OUTSIDE COUNTIES.	0.40	0.44	0.45	0.42	0.45	0.48	0.49	0.49	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.51	0.51	0.51	0.51

OUTSIDE COUNTIES--BULK SALES WATER DEMAND	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2005	2010	2015	2020
MIDWAY																			
Woodford Co.population projections	18884	19076	19900	19927.5	19955	20239	20522	20806	21089	21373	21630	21887	22144	22401	22660	23590.5	24521	24979	25437
Projected bulk consumption (mgd)	0.16	0.17	0.10	0.10	0.10	0.11	0.12	0.12	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13
MIDWAY WATER DEMAND (in MGD).....	0.16	0.17	0.10	0.10	0.10	0.11	0.12	0.12	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13
VERSAILLES																			
Woodford Co.population projections	18884	19076	19900	19927.5	19955	20239	20522	20806	21089	21373	21630	21887	22144	22401	22660	23590.5	24521	24979	25437
Versailles projected tot. avg usage									2.70	2.74	2.77	2.80	2.84	2.87	2.90	3.02	3.14	3.20	3.26
Versailles production capacity(mgd)	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
Projected bulk consumption (mgd) (supplemental supply)									0.20	0.24	0.27	0.30	0.34	0.37	0.40	0.52	0.64	0.70	0.76
VERSAILLES WATER DEMAND (in MGD).....	0.00	0.13	0.07	0.03	0.05	0.07	0.02	0.13	0.20	0.24	0.27	0.30	0.34	0.37	0.40	0.52	0.64	0.70	0.76
SPEARS DISTRICT																			
Jessamine Co.population projections	28911	29338	30610	30559	30508	31000	31492	31984	32476	32968	33399	33830	34262	34693	35124	36798	38471	39430	40389
Average bulk consumption (mgd)	0.12	0.15	0.15	0.11	0.11	0.12	0.14	0.13	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.15	0.15
SPEARS DISTRICT WATER DEMAND (in MGD).	0.12	0.15	0.15	0.11	0.11	0.12	0.14	0.13	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.15	0.15
SOUTH ELKHORN DISTRICT																			
Jessamine Co.population projections	28911	29338	30610	30559	30508	31000	31492	31984	32476	32968	33399	33830	34262	34693	35124	36798	38471	39430	40389
Average bulk consumption (mgd)	0.25	0.33	0.41	0.37	0.32	0.35	0.36	0.40	0.36	0.36	0.37	0.37	0.38	0.37	0.38	0.39	0.41	0.42	0.43
SOUTH ELKHORN WATER DEMAND (in MGD)..	0.25	0.33	0.41	0.37	0.32	0.35	0.36	0.40	0.36	0.36	0.37	0.37	0.38	0.37	0.38	0.39	0.41	0.42	0.43
NORTH MIDDLETOWN																			
Bourbon Co. population projections	19188	19088	18978	19277	19236	19272	19307	19343	19378	19414	19438	19461	19485	19508	19532	19647	19762	19860	19958
Average bulk consumption (mgd)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
NORTH MIDDLETOWN WATER DEMAND (in MGD)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BULK SALES																			
TOTAL WATER DEMAND OUTSIDE COUNTIES.	0.53	0.77	0.73	0.61	0.58	0.64	0.63	0.78	0.86	0.89	0.94	0.98	1.02	1.05	1.08	1.23	1.38	1.46	1.53
CONSERVATION PROGRAM IMPACTS	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2005	2010	2015	2020
RESIDENTIAL RETROFIT PROGRAM																			
SAVINGS PER HOUSEHOLD									22.40	22.40	22.40	22.40	22.40	22.40					
HOUSEHOLDS PARTICIPATING									300	1500	2000	2500	3000	3500		0	0	0	0
ANNUAL SAVINGS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.04	0.06	0.07	0.08	0.00	0.00	0.00	0.00	0.00
CUMULATIVE SAVINGS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.09	0.14	0.21	0.29	0.29	0.29	0.29	0.29	0.29
RESIDENTIAL LANDSCAPE/TURF SCHEDULE																			
SAVINGS PER HOUSEHOLD										3.80	3.80	3.80	3.80						
HOUSEHOLDS PARTICIPATING										500	3000	10000	12500						
ANNUAL SAVINGS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00
CUMULATIVE SAVINGS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.10	0.10	0.10	0.10	0.10	0.10	0.10
INTERIOR HOME CONSULTATION																			
SAVINGS PER HOUSEHOLD											23.76	23.76	23.76	23.76	23.76	23.76			
HOUSEHOLDS PARTICIPATING											200	200	200	200	200	200			
ANNUAL SAVINGS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CUMULATIVE SAVINGS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.05	0.05	0.05	0.05
COMMERCIAL/INDUSTRIAL INTERNAL AUDIT																			
SAVINGS PER COMMERCIAL UNIT											523	523	523	523	523				
UNITS PARTICIPATING											50	150	150	200	200				
ANNUAL SAVINGS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.08	0.08	0.10	0.10	0.00	0.00	0.00	0.00
SAVINGS PER INDUSTRIAL UNIT											70824	70824	70824	70824					
UNITS PARTICIPATING											1	2	2	2					
ANNUAL SAVINGS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.14	0.14	0.14	0.00	0.00	0.00	0.00	0.00
CUMULATIVE SAVINGS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.32	0.54	0.78	0.89	0.89	0.89	0.89	0.89
INDUSTRIAL/UK EXTERIOR AUDIT																			
UNIVERSITY OF KENTUCKY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SAVINGS PER INDUSTRIAL UNIT											1127	1127	1127	1127					
UNITS PARTICIPATING											1	2	2	2					
ANNUAL SAVINGS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CUMULATIVE SAVINGS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04
INCREASED LEAK DETECTION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32	1.33	1.34	1.34	1.35	1.36	1.38	1.40	1.42	1.40
TOTAL SAVINGS FROM CONSERVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	1.36	1.56	1.89	2.24	2.58	2.69	2.74	2.76	2.78	2.76
PUBLIC SERVICE COMMISSION CASE NO. 93-434	SCHEDULE B																		
ATTACHMENT A	UNIVERSITY OF LOUISVILLE BASELINE SERIES POPULATION PROJECTIONS																		
TESTIMONY OF LINDA C. BRIDWELL	PAGE 1 OF 5																		
PUBLIC SERVICE COMMISSION CASE NO. 93-434	SCHEDULE B																		
ATTACHMENT A	UNIVERSITY OF LOUISVILLE BASELINE GROWTH SERIES POPULATION PROJECTIONS																		
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PUBLIC SERVICE COMMISSION CASE NO. 93-434	SCHEDULE B																		
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PUBLIC SERVICE COMMISSION CASE NO. 93-434	SCHEDULE B																		
ATTACHMENT A	UNIVERSITY OF LOUISVILLE BASELINE GROWTH SERIES POPULATION PROJECTIONS																		
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