

KENTUCKY AMERICAN WATER COMPANY
WATER DEMAND MODEL

		ELAST.	% OF USE
SFR INDOOR		0.1	85.0%
SFR OUTDOOR		0.5	15.0%
COMMERCIAL		0.1	100.0%
INDUSTRIAL		0	100.0%
APARTMENT		0.1	100.0%

Assumed Inflation Rate for the Year (CPI)					5.4%	4.21%	3.01%	2.99%	3.60%	2.50%	3.20%	2.29%	1.56%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
Projected Water/Sewer Rate Increase for the Year					4.04%	5.51%	51.80%	0.00%	3.32%	6.65%	6.19%	3.10%	0.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
Losses and Non-Revenue Uses for Year						13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%
% GROWTH FOR YEAR - REFERENCE CASE			1.1%	1.1%	1.0%	1.0%	0.9%	0.8%	0.8%	0.7%	0.7%	0.6%	0.6%	0.5%	0.5%	2.2%	1.9%	1.6%	1.1%
			1.1%	0.0%	1.5%	0.9%	0.9%	0.8%	0.8%	0.8%	0.8%	0.8%	0.4%	0.4%	0.4%	1.4%	1.0%	0.6%	0.1%
Calendar Year	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2005	2010	2015	2020
Total Population (Fayette County)	217701	220526	222912	222904	226279	228221	230163	232105	234048	235990	237932	239874	240771	241667	242564	246065	248612	250039	250282
Apartment Population	70546	71462	72235	72232	75741	76391	77041	77691	78341	78992	79642	80292	80592	80892	81192	82364	83216	83694	83775
U of K Full Time Residents	8153	8200	8200	8200	8200	8200	8200	8200	8200	8200	8200	8200	8200	8200	8200	8200	8200	8200	8200
Inmates of Institutions	3793	4116	4439	4761	5084	5128	5171	5215	5259	5302	5346	5389	5410	5430	5450	5529	5586	5618	5623
Remaining Population Served (SFR, Fayette Co.)	135209	136748	138039	137710	137254	138502	139751	140999	142248	143496	144745	145993	146570	147146	147722	149973	151610	152527	152683
Outside County Population Served	4720	4979	5256	5491	5671	5790	5921	6021	6205	6440	6748	7305	7909	8049	8185	8847	9196	9527	9941
New Residents											1556	3362	4543	5258	5971	8883	10869	12118	12688
Actual Number of Customers																			
Usage Per Customer																			
Single Family Residential Per Capita Use (in gpd)	85.54	89.11	85.17	76.10	78.98	80.39	76.29	81.91	86.33	85.04	90.38	85.49	91.05	87.49	87.43	87.45	87.45	87.45	87.45
New Resident SFR Per Capita Use (in gpd)											81.34	76.94	81.94	78.74	78.69	78.71	78.71	78.71	78.71
Single Family Residential	11.97	12.63	12.21	10.90	11.29	11.60	11.11	12.04	12.82	12.75	13.69	13.11	14.06	12.68	13.58	13.81	13.97	14.07	14.11
Fayette Co. Residential use (in mgd).....	11.57	12.19	11.76	10.48	10.84	11.13	10.66	11.55	12.28	12.20	13.08	12.49	13.11	11.75	12.63	12.81	12.94	13.01	13.02
Apartment Population	70546	71462	72235	72232	75741	76391	77041	77691	78341	78992	79642	80292	80592	80892	81192	82364	83216	83694	83775
New Residents											650	1300	1600	1900	2200	3372	4225	4703	4784
Number of Customers																			
Usage Per Customer																			
Existing Apartment Resident Per Capita Use (in gpd)	79.66	83.04	78.91	80.71	75.56	75.09	75.19	77.60	79.32	79.62	109.25	94.28	94.90	91.38	91.35	91.36	91.36	91.36	91.36
New Resident MFR Per Capita Use (in gpd)																			
Multi-Family Residential	1.37	1.41	1.39	1.33	1.40	1.40	1.42	1.49	1.57	1.45	1.71	1.49	1.53	0.96					
Garden Apartments	4.20	4.47	4.26	4.45	4.27	4.28	4.32	4.49	4.58	4.82	5.89	5.08	5.01	4.38					
High Rise Apartments	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.02	1.10	1.00	1.11	1.05					
Apartment use (in mgd).....	5.62	5.93	5.70	5.83	5.72	5.74	5.79	6.03	6.21	6.29	8.70	7.57	7.65	6.40	7.41	7.51	7.58	7.62	7.63
Outside Counties (see "Counties" pages)																			
Individual Cust. Use (in mgd)....	0.40	0.44	0.45	0.42	0.45	0.47	0.45	0.49	0.54	0.55	0.61	0.62	0.96	0.93	0.95	1.00	1.03	1.06	1.09
Bulk Sales Use (in mgd).....	0.53	0.77	0.73	0.61	0.58	0.64	0.63	0.78	0.75	0.71	0.80	0.85	1.08	1.46	0.99	1.12	1.17	1.27	1.46

Calendar Year	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2005	2010	2015	2020
Commercial Use (mgd)	7.75	8.10	7.74	7.18	7.48	7.79	7.53	7.93	8.37	7.84	8.12	8.18	8.40	8.37	8.40	8.52	8.60	8.65	8.66
Toyota Usage (mgd)			0.41	0.74	0.89	0.94	1.09	1.05	1.25	1.40	1.37	1.61	1.70	1.62	1.62	1.62	1.62	1.62	1.62
Industrial Use (mgd,non-Toyota)	1.64	1.58	1.49	1.36	1.44	1.39	1.23	1.24	1.23	1.23	1.31	1.38	1.43	1.30	1.31	1.33	1.34	1.35	1.35
University of Kentucky U of K Base Demand including residences (Main Campus only)	1.20	1.31	1.30	1.50	1.46	1.55	1.47	1.57	1.73	1.63	1.45	1.43	1.55	1.53	1.53	1.53	1.53	1.53	1.53
U of K Student Population	23696	22461	22879	23297	23081	24132	24197	24288	24217	24378	24200	24200	24200	24200	24200	24200	24200	24200	24200
U of K per student use (g/d)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
U of K student usage on campus (mgd).....	0.24	0.22	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Total U of K Main Campus Usage (mgd)	1.44	1.53	1.53	1.73	1.69	1.79	1.71	1.81	1.97	1.88	1.69	1.67	1.80	1.77	1.77	1.77	1.77	1.77	1.77
Other Public Use (in mgd).....	0.76	1.00	1.40	1.32	1.48	1.50	1.64	1.67	1.60	1.52	1.35	1.37	1.32	1.52	1.53	1.55	1.56	1.57	1.57
Total System Usage (mgd).....	29.70	31.55	31.20	29.67	30.57	31.40	30.73	32.56	34.19	33.61	37.03	35.73	37.44	35.13	36.60	37.22	37.63	37.93	38.18
Losses and Non-Revenue Use (%)	16.90%	17.60%	15.00%	12.30%	11.60%	15.40%	16.10%	17.64%	15.69%	16.01%	12.25%	14.90%	12.30%	11.50%	14.80%	14.80%	14.80%	14.80%	14.80%
Losses and Non-Revenue Use (mgd).....	6.04	6.74	5.51	4.16	4.01	5.71	5.90	6.97	6.36	6.41	5.17	6.25	5.25	4.56	6.36	6.47	6.54	6.59	6.63
Actual Average Day Demand (mgd)	35.74	38.28	36.71	33.84	34.59	37.11	36.63	39.53	40.55	40.02	42.20	41.98	42.69						
Average Day Demand w/out Conservation (mgd)	35.74	38.28	36.71	33.84	34.59	37.11	36.63	39.53	40.56	41.98	42.64	44.01	43.83	39.69	42.96	43.69	44.16	44.52	44.81
Maximum Day w/out Conservation (mgd)	58.94	62.61	60.86	56.98	58.33	61.39	60.51	64.54	66.79	69.15	71.11	72.66	72.93	66.35	70.83	71.98	72.73	73.25	73.58
Actual Maximum Day (mgd)	57.47	54.89	63.91	47.72	58.52	56.42	47.22	59.49	58.36	63.77	53.7	60.7	64.67						
Conservation Impacts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-1.95	-0.45	-2.03	-1.14	-1.09	-2.80	-2.84	-2.86	-2.87	-2.88
Total Average Day Demand (mgd).....														38.60	40.17	40.84	41.30	41.65	41.93
Max Day: 95% Exceedance (mgd).....	58.94	62.61	60.86	56.98	58.33	61.39	60.51	64.54	66.78	65.87	70.36	69.26	71.02	65.16	67.94	69.04	69.78	70.28	70.60
In Plant Usage (mgd)	1.617	2.37	1.91	1.77	1.36	1.40	1.42	1.55	1.59	1.64	1.67	1.72	1.71	1.55	1.68	1.71	1.73	1.74	1.75
Total Max Day Production (mgd)[95%excd]	59.087	57.26	65.82	49.49	59.88	57.82	48.64	61.04	68.37	67.51	72.03	70.98	72.74	66.71	69.62	70.75	71.50	72.02	72.35
previous forecast (1992 CPS)	59.087	57.26	65.82	49.49	59.88	57.82	63.53	63.87	64.67	65.44	65.71	65.79	65.88	65.97	65.81	65.91	65.81	66.81	66.64

* NOTE: Revised to reflect actual 1986-1998 year-end billed usage.

FOR SAME CONDITIONS UNDER HOT, DRY SCENARIO:

TOTAL SYSTEM USAGE (mgd).....	31.48	33.44	33.08	31.45	32.41	33.28	32.58	34.51	36.24	35.63	39.25	37.87	39.69	37.23	38.80	39.46	39.88	40.21	40.47
LOSSES AND NON-REVENUE USE (%)	16.90%	17.60%	15.00%	12.30%	11.60%	15.40%	16.10%	17.64%	15.69%	16.01%	12.25%	14.90%	12.30%	11.50%	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	6.25	7.39	6.74	6.79	5.48	6.63	5.57	4.84	6.74	6.85	6.93	6.98	7.03
Average Day Demand w/out Conservation (mgd)	37.89	40.58	38.91	35.87	36.66	39.34	38.83	41.90	42.99	42.42	44.73	44.50	45.26	42.07	45.54	46.31	46.81	47.19	47.50
Maximun Day w/out Conservation (mgd)	62.30	66.19	64.33	60.22	61.65	64.89	63.96	68.24	70.61	69.64	74.40	73.24	75.11	70.16	74.90	76.12	76.91	77.47	77.82
ACTUAL MAXIMUM DAY (mgd)	57.47	54.89	63.91	47.72	58.52	56.42	47.22	59.49	58.36	63.77	53.70	60.70	64.67						
CONSERVATION IMPACTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-1.95	-0.45	-2.03	-1.14	-1.09	-2.80	-2.84	-2.86	-2.87	-2.88
Projected Average Day Demand (mgd)	37.89	40.58	38.91	35.87	36.66	39.34	38.83	41.90	42.98	40.47	44.28	42.48	44.12	40.98	42.74	43.46	43.95	44.32	44.62
SUMMER AVG. DAY DEMAND: 95% EXCD. (mgd)	48	51	49	45	46	49	49	52	54	51	55	53	55	51	54	54	55	55	56
MAX DAY: 95% EXCEEDANCE (mgd).....	62.30	66.19	64.33	60.22	61.65	64.89	63.96	68.24	70.61	67.69	73.93	71.15	73.88	68.98	72.01	73.18	73.96	74.50	74.85
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	72.21	69.29	75.53	72.75	75.48	70.58	73.61	74.78	75.56	76.10	76.45

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	20270	20585	20934	21283	21632	21988	22344	22689	23033	23378	24804	25741	26530	27359
No. of resid. connections	138	137	142	139	141	142	145	149	151	152	153	155	163	165	168	178	185	191	197
Persons per household	2.80	2.80	2.81	2.79	2.76	2.71	2.67	2.62	2.58	2.53	2.51	2.49	2.48	2.46	2.44	2.40	2.35	2.31	2.27
Population Served	386	384	399	387	389	385	387	391	389	385	384	387	404	407	410	427	435	440	446
Existing Customer Per capita use (GPD)	85.54	89.11	85.17	76.10	78.98	80.39	76.29	81.91	86.33	85.04	90.38	85.49	91.05	87.49	87.43	87.45	87.45	87.45	87.45
New Customer Per Capita Use (GPD)											81.34	76.94	81.94	78.74	78.69	78.71	78.71	78.71	78.71
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	0.04	0.04	0.04	0.04	0.04	0.04	0.04
SCOTT COUNTY																			
Population	22689	23501	22760	23314	23867	24135	24403	25360	26317	27274	27731	29446	30423	31397	32373	36725	39658	42443	45853
No. of resid. connections	1055	1149	1287	1373	1446	1507	1571	1628	1716	1799	1926	2142	2362	2438	2513	2851	3079	3295	3560
Persons per household	2.90	2.90	2.77	2.76	2.74	2.71	2.68	2.65	2.62	2.59	2.57	2.55	2.53	2.51	2.49	2.43	2.37	2.32	2.27
Population Served	3060	3332	3565	3783	3962	4084	4210	4314	4496	4659	4950	5462	5976	6118	6258	6929	7297	7645	8081
Existing Customer Per Capita Use (GPD)	85.54	89.11	85.17	76.10	78.98	80.39	76.29	81.91	86.33	85.04	90.38	85.49	91.05	87.49	87.43	87.45	87.45	87.45	87.45
New Customer Per Capita Use (GPD)											81.34	76.94	81.94	78.74	78.69	78.71	78.71	78.71	78.71
SCOTT CO. WATER DEMAND (in MGD).....	0.26	0.30	0.30	0.29	0.31	0.33	0.32	0.35	0.39	0.40	0.44	0.46	0.53	0.52	0.53	0.59	0.62	0.64	0.68
BOURBON COUNTY																			
Population	19188	19088	18978	19277	19236	19316	19397	19396	19395	19394	19576	19349	19338	19327	19316	19266	19222	19129	18929
No. of resid. connections	394	391	394	407	409	419	427	433	441	477	486	506	538	538	537	536	535	532	527
Persons per household	2.70	2.70	2.73	2.72	2.70	2.66	2.62	2.57	2.53	2.49	2.48	2.47	2.45	2.44	2.43	2.39	2.34	2.31	2.28
Population Served	1064	1056	1076	1105	1104	1114	1117	1115	1117	1188	1204	1248	1320	1313	1306	1278	1251	1229	1201
Existing Customer Per capita use (GPD)	85.54	89.11	85.17	76.10	78.98	80.39	76.29	81.91	86.33	85.04	90.38	85.49	91.05	87.49	87.43	87.45	87.45	87.45	87.45
New Customer Per Capita Use (GPD)											81.34	76.94	81.94	78.74	78.69	78.71	78.71	78.71	78.71
BOURBON CO. WATER DEMAND (in MGD).....	0.09	0.09	0.09	0.08	0.09	0.09	0.09	0.09	0.10	0.10	0.11	0.11	0.12	0.11	0.11	0.11	0.11	0.11	0.10
HARRISON COUNTY																			
Population	15722	15907	15887	16195	16248	16387	16526	16692	16857	17023	17200	17352	17500	17647	17795	18346	18625	18859	19145
No. of resid. connections	78	77	80	80	80	78	79	78	80	83	84	84	85	86	86	89	90	92	93
Persons per household	2.70	2.70	2.71	2.70	2.69	2.65	2.62	2.58	2.55	2.51	2.50	2.48	2.47	2.45	2.44	2.40	2.35	2.32	2.29
Population Served	211	208	217	216	215	207	207	201	204	208	210	208	210	210	211	213	213	213	213
Existing Customer Per capita use (GPD)	85.54	89.11	85.17	76.10	78.98	80.39	76.29	81.91	86.33	85.04	90.38	85.49	91.05	87.49	87.43	87.45	87.45	87.45	87.45
New Customer Per Capita Use (GPD)											81.34	76.94	81.94	78.74	78.69	78.71	78.71	78.71	78.71
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
CLARK COUNTY																			
Population					29496	29743	29990	30238	30485	30732	31108	31679	31990	32300	32611	33884	34710	35359	35935
No. of residential connections										1109	1180	1205	1215	1227	1239	1287	1318	1343	1365
Persons per household										2.55	2.54	2.53	2.53	2.52	2.51	2.47	2.43	2.40	2.37
Population Served										3000	3053	3069	3089	3109	3179	3203	3223	3235	
Existing Customer Per capita use (GPD)	85.54	89.11	85.17	76.10	78.98	80.39	76.29	81.91	86.33	85.04	90.38	85.49	91.05	87.49	87.43	87.45	87.45	87.45	87.45
New Customer Per Capita Use (GPD)											81.34	76.94	81.94	78.74	78.69	78.71	78.71	78.71	78.71
CLARK CO. WATER DEMAND (in MGD)													0.25	0.24	0.24	0.25	0.25	0.25	0.25
INDIVIDUAL CUSTOMER																			
TOTAL WATER DEMAND OUTSIDE COUNTIES...	0.40	0.44	0.45	0.42	0.45	0.47	0.45	0.49	0.54	0.55	0.61	0.62	0.96	0.93	0.95	1.00	1.03	1.06	1.09

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	19928	19955	20270	20585	20934	21283	21632	21988	22344	22689	23033	23378	24804	25741	26530	27359
Projected bulk consumption (mgd)	0.16	0.17	0.10	0.10	0.10	0.11	0.12	0.12	0.13	0.13	0.16	0.15	0.13	0.14	0.14	0.15	0.15	0.16	0.16
MIDWAY WATER DEMAND (in MGD).....	0.16	0.17	0.10	0.10	0.10	0.11	0.12	0.12	0.13	0.13	0.16	0.15	0.13	0.14	0.14	0.15	0.15	0.16	0.16
VERSAILLES																			
Woodford Co.population projections	18884	19076	19900	19928	19955	20270	20585	20934	21283	21632	21988	22344	22689	23033	23378	24804	25741	26530	27359
Versailles projected tot. avg usage													4.00	4.00	3.13	3.56	3.72	4.07	4.20
Versailles production capacity(mgd)	2.50	2.50	2.50	2.50	2.50	2.50	2.50	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Projected bulk consumption (mgd) (supplemental supply)													0.00	0.00	0.02	0.02	0.02	0.07	0.20
VERSAILLES WATER DEMAND (in MGD).....	0.00	0.13	0.07	0.03	0.05	0.07	0.02	0.13	0.02	0.01	0.01	0.02	0.13	0.23	0.02	0.02	0.02	0.07	0.20
SPEARS DISTRICT																			
Jessamine Co.population projections	28911	29338	30610	30559	30508	31016	31524	32470	33417	34363	35105	36038	36780	37521	38263	41432	43658	45633	47733
Average bulk consumption (mgd)	0.12	0.15	0.15	0.11	0.11	0.12	0.14	0.13	0.11	0.10	0.14	0.15	0.17	0.15	0.16	0.17	0.18	0.19	0.20
SPEARS DISTRICT WATER DEMAND (in MGD).....	0.12	0.15	0.15	0.11	0.11	0.12	0.14	0.13	0.11	0.10	0.14	0.15	0.17	0.20	0.16	0.17	0.18	0.19	0.20
SOUTH ELKHORN DISTRICT																			
Jessamine Co.population projections	28911	29338	30610	30559	30508	31016	31524	32470	33417	34363	35105	36038	36780	37521	38263	41432	43658	45633	47733
Average bulk consumption (mgd)	0.25	0.33	0.41	0.37	0.32	0.35	0.36	0.40	0.39	0.38	0.40	0.41	0.42	0.42	0.43	0.46	0.49	0.51	0.53
SOUTH ELKHORN WATER DEMAND (in MGD).....	0.25	0.33	0.41	0.37	0.32	0.35	0.36	0.40	0.39	0.38	0.40	0.41	0.42	0.51	0.43	0.46	0.49	0.51	0.53
NORTH MIDDLETOWN																			
Bourbon Co. population projections	19188	19088	18978	19277	19236	19316	19397	19396	19395	19394	19576	19349	19338	19327	19316	19266	19222	19129	18929
Average bulk consumption (mgd)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.09	0.09	0.10	0.11	0.10	0.10	0.10	0.10	0.10	0.10
NORTH MIDDLETOWN WATER DEMAND (in MGD)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.09	0.09	0.10	0.11	0.13	0.10	0.10	0.10	0.10	0.10
GEORGETOWN MUNICIPAL WATER																			
Scott Co. population projections	22689	23501	22760	23313.5	23867	24135	24403	25360	26317	27274	27731	29446	30423	31397	32373	36725	39658	42443	45853
Average bulk consumption (mgd)												0.02	0.12	0.25	0.15	0.21	0.23	0.24	0.26
GEORGETOWN WATER DEMAND (in MGD)												0.02	0.12	0.25	0.15	0.21	0.23	0.24	0.26
BULK SALES																			
TOTAL WATER DEMAND OUTSIDE COUNTIES...	0.53	0.77	0.73	0.61	0.58	0.64	0.63	0.78	0.75	0.71	0.80	0.85	1.08	1.46	0.99	1.12	1.17	1.27	1.46

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	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	1.91	0.21	1.47	0.24	-0.14	1.46	1.49	1.50	1.51	1.52
TOTAL SAVINGS FROM CONSERVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	1.95	0.45	2.03	1.14	1.09	2.80	2.84	2.86	2.87	2.88

ADVANCED PLUMBING CODE EFFECTS CALCULATION			
	1996	2006	
UNIT WATER SAVINGS, GDU			
TOILETS	21.12	20.20	
SHOWERHEADS	10.03	10.90	
FAUCETS	13.73	3.00	
ELIGIBLE POPULATION, %			
TOILETS	0.15	0.65	
SHOWERHEADS	0.25	0.9	
FAUCETS	0.25	0.9	
PARTICIPATION RATE			
LOW	0.75	0.75	
HIGH	0.90	0.90	
NUMBER OF CUSTOMERS CALC.			
WATER USE, MGD			
SINGLE FAMILY			
IN CTY	13.08466	12.80896	
OUT CTY	1.410468	2.118422	
MULTI			
SFR PER CAP USAGE	8.701211	7.50935	
MFR PER CAP USAGE	90.37899	87.45458	
	109.25	91.36	
SFR POPULATION	160382	170687	
MFR POPULATION	79642	82195	
PEOPLE/UNIT	2.64	2.52	
EQU.RESID.CUSTOMERS	90918	100350	
COMM & IND SAVINGS	0.15	0.44	(AMY)
GOVT AND UK SAVINGS	0.08	0.15	(AMY)
ESTIMATED APC SAVINGS, MGD			
HIGH	0.98	2.91	
LOW	0.85	2.52	
AVG.	0.91	2.71	

KENTUCKY AMERICAN WATER COMPANY
WATER DEMAND MODEL
U of L PROJECTIONS & UNACCOUNTED-FOR of 13%

MODEL UPDATE
RUN DATE
DIRECTORY:
FILENAME:
SHEET:

MARCH, 1992
02/14/02
\\home\\linda
98DEMFOR.XLW
99updtuc

ELAST. % OF USE
SFR INDOOR 0.1 85.0%
SFR OUTDOOR 0.5 15.0%
COMMERCIAL 0.1 100.0%
INDUSTRIAL 0 100.0%
APARTMENT 0.1 100.0%
5.00% 5.00% 5.00% 5.00% 5.00% 5.00%
13.0% 13.0% 13.0% 13.0% 13.0% 13.0%
0.6% 0.7% 0.6% 0.6% 0.5% 0.5% 2.2% 1.9% 1.6% 1.1%
1.2% 1.2% 1.2% 1.2% 1.1% 1.1% 3.6% 3.4% 1.7% 1.6%

ADVANCED PLUMBING CODE EFFECTS CALCULATION

1999 Update with 1996 LFUCG Comprehensive Plan Population Projections

Assumed Inflation Rate for the Year (CPI)
Projected Water/Sewer Rate Increase for the Year
Losses and Non-Revenue Uses for Year
% GROWTH FOR YEAR - REFERENCE CASE

Calendar Year	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2005	2010	2015	2020
Total Population (Fayette County)	217701	220526	222912	222904	226279	229075.4	231871.8	234668.2	237464.6	240261	243106.8	245952.6	248798.4	251644.2	254490	263757	272709	277442	282000
Apartment Population	70546	71462	72235	72232	75741	76677	77613	78549	79485	80421	81374	82326	83279	84231	85184	88286	91282	92866	94392
U of K Full Time Residents	8153	8200	8200	8200	8200	8200	8200	8200	8200	8200	8200	8200	8200	8200	8200	8200	8200	8200	8200
Inmates of Institutions	3793	4116	4439	4761	5084	5147	5210	5272	5335	5398	5462	5526	5590	5654	5718	5926	6127	6234	6336
Remaining Population Served (SFR, Fayette Co.)	135209	136748	138039	137710	137254	139052	140849	142647	144444	146242	148071	149900	151730	153559	155388	161345	167100	170142	173072
Outside County Population Served	4720	4979	5256	5491	5671	5790	5921	6021	6205	6440	6748	7305	7909	8049	8185	8847	9196	9527	9941
New Residents											2137	4524	6957	8926	10891	17511	23614	26987	30331
Actual Number of Customers																			
Usage Per Customer																			
Single Family Residential Per Capita Use (in gpd)	85.54	89.11	85.17	76.10	78.98	80.09	75.72	81.00	85.07	83.51	88.44	83.36	88.10	85.53	85.48	85.50	85.50	85.50	85.50
New Resident SFR Per Capita Use (in gpd)											79.59	75.03	79.29	76.98	76.93	76.95	76.95	76.95	76.95
Single Family Residential	11.97	12.63	12.21	10.90	11.29	11.60	11.11	12.04	12.82	12.75	13.69	13.11	14.06	12.68	13.89	14.40	14.87	15.13	15.39
Fayette Co. Residential use (in mgd).....	11.57	12.19	11.76	10.48	10.84	11.14	10.66	11.55	12.29	12.21	13.10	12.50	13.14	11.77	12.96	13.42	13.86	14.09	14.32
Apartment Population	70546	71462	72235	72232	75741	76677	77613	78549	79485	80421	81374	82326	83279	84231	85184	88286	91282	92866	94392
New Residents											953	1905	2858	3810	4763	7865	10861	12445	13971
Number of Customers																			
Usage Per Customer																			
Existing Apartment Resident Per Capita Use (in gpd)	79.66	83.04	78.91	80.71	75.56	74.81	74.64	76.75	78.18	78.20	106.93	91.95	91.83	89.32	89.29	89.31	89.31	89.31	89.31
New Resident MFR Per Capita Use (in gpd)																			
Multi-Family Residential	1.37	1.41	1.39	1.33	1.40	1.40	1.42	1.49	1.57	1.45	1.71	1.49	1.53	0.96					
Garden Apartments	4.20	4.47	4.26	4.45	4.27	4.28	4.32	4.49	4.58	4.82	5.89	5.08	5.01	4.38					
High Rise Apartments	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.02	1.10	1.00	1.11	1.05					
Apartment use (in mgd).....	5.62	5.93	5.70	5.83	5.72	5.74	5.79	6.03	6.21	6.29	8.70	7.57	7.65	6.40	7.58	7.85	8.10	8.24	8.37
Outside Counties (see "Counties" pages)																			
Individual Cust. Use (in mgd)....	0.40	0.44	0.45	0.42	0.45	0.46	0.45	0.49	0.53	0.54	0.59	0.60	0.93	0.91	0.92	0.98	1.01	1.04	1.07
Bulk Sales Use (in mgd).....	0.53	0.77	0.73	0.61	0.58	0.64	0.63	0.78	0.75	0.71	0.80	0.85	1.08	1.46	0.99	1.12	1.17	1.27	1.46
Commercial Use (mgd)	7.75	8.10	7.74	7.18	7.48	7.79	7.53	7.93	8.37	7.84	8.12	8.18	8.40	8.37	8.46	8.77	9.06	9.22	9.37
Toyota Usage (mgd)			0.41	0.74	0.89	0.94	1.09	1.05	1.25	1.40	1.37	1.61	1.70	1.62	1.62	1.62	1.62	1.62	1.62
Industrial Use (mgd,non-Toyota)	1.64	1.58	1.49	1.36	1.44	1.39	1.23	1.24	1.23	1.23	1.31	1.38	1.43	1.30	1.32	1.36	1.41	1.44	1.46
University of Kentucky																			
U of K Base Demand including residences (Main Campus only)	1.20	1.31	1.30	1.50	1.46	1.55	1.47	1.57	1.73	1.63	1.45	1.43	1.55	1.53	1.53	1.53	1.53	1.53	1.53
U of K Student Population	23696	22461	22879	23297	23081	24132	24197	24288	24217	24378	24200	24200	24200	24200	24200	24200	24200	24200	24200
U of K per student use (g/d)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
U of K student usage on campus (mgd).....	0.24	0.22	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Total U of K Main Campus Usage (mgd)	1.44	1.53	1.53	1.73	1.69	1.79	1.71	1.81	1.97	1.88	1.69	1.67	1.80	1.77	1.77	1.77	1.77	1.77	1.77

UNIT WATER SAVINGS, GDU	1996	2006
TOILETS	21.12	20.20
SHOWERHEADS	10.03	10.90
FAUCETS	13.73	3.00
ELIGIBLE POPULATION,%		
TOILETS	0.15	0.65
SHOWERHEADS	0.25	0.9
FAUCETS	0.25	0.9
PARTICIPATION RATE		
LOW	0.75	0.75
HIGH	0.90	0.90

NUMBER OF CUSTOMERS CALC.		
WATER USE,MGD		
SINGLE FAMILY		
IN CTY	13.0977	13.4207
OUT CTY	1.397423	2.095967

MULTI	8.701211	7.849306	FROM AMY
SFR PER CAP USAGE	88.43713	85.49637	FROM AMY
MFR PER CAP USAGE	106.93	89.31	

SFR POPULATION	163903	181489
MFR POPULATION	81374	87893

PEOPLE/UNIT	2.64	2.52
EQU.RESID.CUSTOMERS	92908	106898

COMM & IND SAVINGS	0.15	0.44
GOVT AND UK SAVINGS	0.08	0.15
ESTIMATED APC SAVINGS, MGD		
HIGH	0.99	3.06
LOW	0.86	2.65
AVG.	0.93	2.85

Calendar Year	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2005	2010	2015	2020
Other Public Use (in mgd).....	0.76	1.00	1.40	1.32	1.48	1.50	1.64	1.67	1.60	1.52	1.35	1.37	1.32	1.52	1.54	1.59	1.65	1.68	1.70
Total System Usage (mgd).....	29.70	31.55	31.20	29.67	30.57	31.40	30.73	32.56	34.19	33.61	37.03	35.73	37.44	35.13	37.18	38.49	39.66	40.37	41.14
Losses and Non-Revenue Use (%)	16.90%	17.60%	15.00%	12.30%	11.60%	15.40%	16.10%	17.64%	15.69%	16.01%	12.25%	14.90%	12.30%	11.50%	14.80%	14.80%	14.80%	14.80%	14.80%
Losses and Non-Revenue Use (mgd).....	6.04	6.74	5.51	4.16	4.01	5.71	5.90	6.97	6.36	6.41	5.17	6.25	5.25	4.56	6.46	6.69	6.89	7.01	7.15
Actual Average Day Demand (mgd)	35.74	38.28	36.71	33.84	34.59	37.11	36.63	39.53	40.55	40.02	42.20	41.98	42.69						
Average Day Demand w/out Conservation (mgd)	35.74	38.28	36.71	33.84	34.59	37.11	36.63	39.53	40.56	41.98	42.64	44.01	43.83	39.69	43.63	45.17	46.56	47.38	48.29
Maximum Day w/out Conservation (mgd)	58.64	62.31	60.56	56.68	58.03	61.09	60.21	64.24	66.49	68.85	70.81	72.36	72.63	66.05	71.59	74.02	76.21	77.46	78.77
Actual Maximum Day (mgd)	57.47	54.89	63.91	47.72	58.52	56.42	47.22	59.49	58.36	63.77	53.7	60.7	64.67						
Conservation Impacts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-1.95	-0.45	-2.03	-1.14	-1.09	-2.82	-2.90	-2.94	-2.97	-3.00
Total Average Day Demand (mgd).....														38.60	40.81	42.28	43.61	44.41	45.29
Max Day: 95% Exceedance (mgd).....	58.94	62.61	60.86	56.98	58.33	61.39	60.51	64.54	66.78	65.87	70.36	69.26	71.02	65.16	68.68	71.03	73.17	74.40	75.67
In Plant Usage (mgd)	1.617	2.37	1.91	1.77	1.36	1.40	1.42	1.55	1.59	1.64	1.67	1.72	1.71	1.55	1.71	1.77	1.82	1.85	1.89
Total Max Day Production (mgd)[95%excd]	59.087	57.26	65.82	49.49	59.88	57.82	48.64	61.04	68.37	67.51	72.03	70.98	72.74	66.71	70.39	72.80	74.99	76.25	77.56
previous forecast (1992 CPS)	59.087	57.26	65.82	49.49	59.88	57.82	63.53	63.87	64.67	65.44	65.71	65.79	65.88	65.97	65.81	65.91	65.81	66.81	66.64

* NOTE: Revised to reflect actual 1986-1998 year-end billed usage.

FOR SAME CONDITIONS UNDER HOT, DRY SCENARIO:

TOTAL SYSTEM USAGE (mgd).....	31.48	33.44	33.08	31.45	32.41	33.28	32.58	34.51	36.24	35.63	39.25	37.87	39.69	37.23	39.41	40.80	42.04	42.79	43.61
LOSSES AND NON-REVENUE USE (%)	16.90%	17.60%	15.00%	12.30%	11.60%	15.40%	16.10%	17.64%	15.69%	16.01%	12.25%	14.90%	12.30%	11.50%	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	6.25	7.39	6.74	6.79	5.48	6.63	5.57	4.84	6.85	7.09	7.30	7.43	7.58
Average Day Demand w/out Conservation (mgd)	37.89	40.58	38.91	35.87	36.66	39.34	38.83	41.90	42.99	44.38	45.17	46.53	46.39	42.07	46.25	47.88	49.35	50.23	51.19
Maximum Day w/out Conservation (mgd)	62.30	66.19	64.33	60.22	61.65	64.89	63.96	68.24	70.62	72.92	75.15	76.64	77.02	70.16	76.03	78.60	80.92	82.25	83.64
ACTUAL MAXIMUM DAY (mgd)	57.47	54.89	63.91	47.72	58.52	56.42	47.22	59.49	58.36	63.77	53.70	60.70	64.67						
CONSERVATION IMPACTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-1.95	-0.45	-2.03	-1.14	-1.09	-2.82	-2.90	-2.94	-2.97	-3.00
Projected Average Day Demand (mgd)	37.89	40.58	38.91	35.87	36.66	39.34	38.83	41.90	42.99	42.42	44.73	44.50	45.26	40.98	43.43	44.99	46.41	47.25	48.18
6-mo Summer Avg. Day Dem.: 95% C. I. (mgd) w/out cons.	48	51	50	46	47	50	49	53	54	56	57	59	58	53	58	60	62	63	64
6-mo Summer Avg. Day Dem.: 99% C. I. (mgd) w/out cons.	49	52	51	47	48	51	50	54	56	57	58	60	59	54	59	61	63	64	65
6-mo Summer Avg. Day Dem.: 95% C. I. (mgd) w/ cons.	48	51	50	46	47	50	49	53	54	54	56	56	57	52	55	57	58	59	60
6-mo Summer Avg. Day Dem.: 99% C. I. (mgd) w/ cons.	49	52	51	47	48	51	50	54	56	55	58	57	58	53	56	58	60	61	62
MAX DAY: 95% EXCEEDANCE (mgd).....	62.30	66.19	64.33	60.22	61.65	64.89	63.96	68.24	70.62	70.97	74.68	74.56	75.79	68.98	73.12	75.62	77.88	79.19	80.55
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	72.22	72.57	76.28	76.16	77.39	70.58	74.72	77.22	79.48	80.79	82.15

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	20270	20585	20934	21283	21632	21988	22344	22689	23033	23378	24804	25741	26530	27359
No. of resid. connections	138	137	142	139	141	142	145	149	151	152	153	155	163	165	168	178	185	191	197
Persons per household	2.80	2.80	2.81	2.79	2.76	2.71	2.67	2.62	2.58	2.53	2.51	2.49	2.48	2.46	2.44	2.40	2.35	2.31	2.27
Population Served	386	384	399	387	389	385	387	391	389	385	384	387	404	407	410	427	435	440	446
Existing Customer Per capita use (GPD)	85.54	89.11	85.17	76.10	78.98	80.09	75.72	81.00	85.07	83.51	88.44	83.36	88.10	85.53	85.48	85.50	85.50	85.50	85.50
New Customer Per Capita Use (GPD)											79.59	75.03	79.29	76.98	76.93	76.95	76.95	76.95	76.95
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	0.04	0.03	0.03	0.04	0.04	0.04	0.04
SCOTT COUNTY																			
Population	22689	23501	22760	23314	23867	24135	24403	25360	26317	27274	27731	29446	30423	31397	32373	36725	39658	42443	45853
No. of resid. connections	1055	1149	1287	1373	1446	1507	1571	1628	1716	1799	1926	2142	2362	2438	2513	2851	3079	3295	3560
Persons per household	2.90	2.90	2.77	2.76	2.74	2.71	2.68	2.65	2.62	2.59	2.57	2.55	2.53	2.51	2.49	2.43	2.37	2.32	2.27
Population Served	3060	3332	3565	3783	3962	4084	4210	4314	4496	4659	4950	5462	5976	6118	6258	6929	7297	7645	8081
Existing Customer Per Capita Use (GPD)	85.54	89.11	85.17	76.10	78.98	80.09	75.72	81.00	85.07	83.51	88.44	83.36	88.10	85.53	85.48	85.50	85.50	85.50	85.50
New Customer Per Capita Use (GPD)											79.59	75.03	79.29	76.98	76.93	76.95	76.95	76.95	76.95
SCOTT CO. WATER DEMAND (in MGD).....	0.26	0.30	0.30	0.29	0.31	0.33	0.32	0.35	0.38	0.39	0.44	0.45	0.51	0.51	0.52	0.57	0.60	0.63	0.66
BOURBON COUNTY																			
Population	19188	19088	18978	19277	19236	19316	19397	19396	19395	19394	19576	19349	19338	19327	19316	19266	19222	19129	18929
No. of resid. connections	394	391	394	407	409	419	427	433	441	477	486	506	538	538	537	536	535	532	527
Persons per household	2.70	2.70	2.73	2.72	2.70	2.66	2.62	2.57	2.53	2.49	2.48	2.47	2.45	2.44	2.43	2.39	2.34	2.31	2.28
Population Served	1064	1056	1076	1105	1104	1114	1117	1115	1117	1188	1204	1248	1320	1313	1306	1278	1251	1229	1201
Existing Customer Per capita use (GPD)	85.54	89.11	85.17	76.10	78.98	80.09	75.72	81.00	85.07	83.51	88.44	83.36	88.10	85.53	85.48	85.50	85.50	85.50	85.50
New Customer Per Capita Use (GPD)											79.59	75.03	79.29	76.98	76.93	76.95	76.95	76.95	76.95
BOURBON CO. WATER DEMAND (in MGD).....	0.09	0.09	0.09	0.08	0.09	0.09	0.08	0.09	0.09	0.10	0.11	0.10	0.12	0.11	0.11	0.11	0.11	0.10	0.10
HARRISON COUNTY																			
Population	15722	15907	15887	16195	16248	16387	16526	16692	16857	17023	17200	17352	17500	17647	17795	18346	18625	18859	19145
No. of resid. connections	78	77	80	80	80	78	79	78	80	83	84	84	85	86	86	89	90	92	93
Persons per household	2.70	2.70	2.71	2.70	2.69	2.65	2.62	2.58	2.55	2.51	2.50	2.48	2.47	2.45	2.44	2.40	2.35	2.32	2.29
Population Served	211	208	217	216	215	207	207	201	204	208	210	208	210	210	211	213	213	213	213
Existing Customer Per capita use (GPD)	85.54	89.11	85.17	76.10	78.98	80.09	75.72	81.00	85.07	83.51	88.44	83.36	88.10	85.53	85.48	85.50	85.50	85.50	85.50
New Customer Per Capita Use (GPD)											79.59	75.03	79.29	76.98	76.93	76.95	76.95	76.95	76.95
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
CLARK COUNTY																			
Population					29496	29743	29990	30238	30485	30732	31108	31679	31990	32300	32611	33884	34710	35359	35935
No. of residential connections										1109	1180	1205	1215	1227	1239	1287	1318	1343	1365
Persons per household										2.55	2.54	2.53	2.53	2.52	2.51	2.47	2.43	2.40	2.37
Population Servced										3000	3053	3069	3089	3109	3179	3203	3223	3235	
Existing Customer Per capita use (GPD)	85.54	89.11	85.17	76.10	78.98	80.09	75.72	81.00	85.07	83.51	88.44	83.36	88.10	85.53	85.48	85.50	85.50	85.50	85.50
New Customer Per Capita Use (GPD)											79.59	75.03	79.29	76.98	76.93	76.95	76.95	76.95	76.95
CLARK CO. WATER DEMAND (in MGD)													0.24	0.24	0.24	0.24	0.25	0.25	0.25
INDIVIDUAL CUSTOMER																			
TOTAL WATER DEMAND OUTSIDE COUNTIES...	0.40	0.44	0.45	0.42	0.45	0.46	0.45	0.49	0.53	0.54	0.59	0.60	0.93	0.91	0.92	0.98	1.01	1.04	1.07

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 Projected bulk consumption (mgd)		18884	19076	19900	19928	19955	20270	20585	20934	21283	21632	21988	22344	22689	23033	23378	24804	25741	26530	27359
		0.16	0.17	0.10	0.10	0.10	0.11	0.12	0.12	0.13	0.13	0.16	0.15	0.13	0.14	0.14	0.15	0.15	0.16	0.16
MIDWAY WATER DEMAND (in MGD).....		0.16	0.17	0.10	0.10	0.10	0.11	0.12	0.12	0.13	0.13	0.16	0.15	0.13	0.14	0.14	0.15	0.15	0.16	0.16
VERSAILLES Woodford Co.population projections Versailles projected tot. avg usage Versailles production capacity(mgd) Projected bulk consumption (mgd) (supplemental supply)		18884	19076	19900	19928	19955	20270	20585	20934	21283	21632	21988	22344	22689	23033	23378	24804	25741	26530	27359
														4.00	4.00	3.13	3.56	3.72	4.07	4.20
		2.50	2.50	2.50	2.50	2.50	2.50	2.50	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
														0.00	0.00	0.02	0.02	0.02	0.07	0.20
VERSAILLES WATER DEMAND (in MGD).....		0.00	0.13	0.07	0.03	0.05	0.07	0.02	0.13	0.02	0.01	0.01	0.02	0.13	0.23	0.02	0.02	0.02	0.07	0.20
SPEARS DISTRICT Jessamine Co.population projections Average bulk consumption (mgd)		28911	29338	30610	30559	30508	31016	31524	32470	33417	34363	35105	36038	36780	37521	38263	41432	43658	45633	47733
		0.12	0.15	0.15	0.11	0.11	0.12	0.14	0.13	0.11	0.10	0.14	0.15	0.17	0.15	0.16	0.17	0.18	0.19	0.20
SPEARS DISTRICT WATER DEMAND (in MGD).....		0.12	0.15	0.15	0.11	0.11	0.12	0.14	0.13	0.11	0.10	0.14	0.15	0.17	0.20	0.16	0.17	0.18	0.19	0.20
SOUTH ELKHORN DISTRICT Jessamine Co.population projections Average bulk consumption (mgd)		28911	29338	30610	30559	30508	31016	31524	32470	33417	34363	35105	36038	36780	37521	38263	41432	43658	45633	47733
		0.25	0.33	0.41	0.37	0.32	0.35	0.36	0.40	0.39	0.38	0.40	0.41	0.42	0.42	0.43	0.46	0.49	0.51	0.53
SOUTH ELKHORN WATER DEMAND (in MGD).....		0.25	0.33	0.41	0.37	0.32	0.35	0.36	0.40	0.39	0.38	0.40	0.41	0.42	0.51	0.43	0.46	0.49	0.51	0.53
NORTH MIDDLETOWN Bourbon Co. population projections Average bulk consumption (mgd)		19188	19088	18978	19277	19236	19316	19397	19396	19395	19394	19576	19349	19338	19327	19316	19266	19222	19129	18929
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.09	0.09	0.10	0.11	0.10	0.10	0.10	0.10	0.10	0.10
NORTH MIDDLETOWN WATER DEMAND (in MGD)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.09	0.09	0.10	0.11	0.13	0.10	0.10	0.10	0.10	0.10
GEORGETOWN MUNICIPAL WATER Scott Co. population projections Average bulk consumption (mgd)		22689	23501	22760	23313.5	23867	24135	24403	25360	26317	27274	27731	29446	30423	31397	32373	36725	39658	42443	45853
													0.02	0.12	0.25	0.15	0.21	0.23	0.24	0.26
GEORGETOWN WATER DEMAND (in MGD)												0.02	0.12	0.25	0.15	0.21	0.23	0.24	0.26	0.26
BULK SALES TOTAL WATER DEMAND OUTSIDE COUNTIES...		0.53	0.77	0.73	0.61	0.58	0.64	0.63	0.78	0.75	0.71	0.80	0.85	1.08	1.46	0.99	1.12	1.17	1.27	1.46

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	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	UNITS PARTICIPATING											70824	70824	70824	70824					
	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	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	1.91	0.21	1.47	0.24	-0.14	1.48	1.54	1.58	1.61	1.64
TOTAL SAVINGS FROM CONSERVATION		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	1.95	0.45	2.03	1.14	1.09	2.82	2.90	2.94	2.97	3.00

		1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
TOTAL CUSTOMER BASE:		54543	55863	56284	56661	57249	58365	59735	60832	62020	63839	65536	66657	67950	69428	71054	72697	74674	76354	78426	80378	84037
RESIDENTIAL		4096	4411	5047	5918	5613	5646	5783	5989	6145	6351	6475	6593	6847	6963	7049	7085	7168	7236	7339	7437	7623
COMMERCIAL		51	54	51	45	42	38	23	20	21	16	17	17	20	21	18	17	17	17	14	14	16
INDUSTRIAL		309	360	342	409	310	325	340	398	438	435	388	391	422	422	417	423	421	423	428	433	435
O.P.A.		442	492	532	571	638	656	701	763	813	859	932	995	1035	1037	1062	1079	1102	1150	1196	1229	1280
FIRE PROTECTION		442	492	532	571	638	656	701	763	813	859	932	995	1035	1037	1062	1079	1102	1150	1196	1229	1280
SUBTOTAL		59441	61180	62256	63604	63852	65030	66582	68002	69437	71500	73348	74653	76274	77871	79600	81301	83382	85180	87403	89491	93391
BOURBON COUNTY:		282	305	334	343	347	354	385	390	394	391	394	407	409	419	427	433	441	477	486	506	538
RESIDENTIAL		15	16	18	18	18	19	20	21	21	21	21	22	24	24	26	26	27	26	26	27	28
COMMERCIAL																						
INDUSTRIAL																						
O.P.A.															1	1	1	1	2	2	1	1
FIRE PROTECTION																				1	1	1
SUBTOTAL		297	321	352	361	365	373	405	411	415	412	415	429	433	444	454	460	469	505	515	535	568
HARRISON COUNTY:		60	61	66	67	68	70	76	77	78	77	80	80	80	78	79	78	80	83	84	84	85
RESIDENTIAL		2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4
COMMERCIAL																						
INDUSTRIAL																						
O.P.A.																						
FIRE PROTECTION																						
SUBTOTAL		62	63	69	70	71	73	79	80	81	80	83	84	84	82	83	82	84	87	88	88	89
SCOTT COUNTY:		821	833	855	883	906	931	953	984	1055	1149	1287	1373	1446	1507	1571	1628	1716	1799	1926	2142	2362
RESIDENTIAL		69	70	72	74	76	78	80	82	88	96	108	125	129	137	159	159	163	172	180	196	202
COMMERCIAL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	1	1	1
INDUSTRIAL		2	2	3	3	3	3	3	3	3	3	4	5	5	5	4	6	6	4	4	6	6
O.P.A.		12	12	12	12	13	14	14	15	16	17	19	28	31	28	35	35	38	43	47	53	54
FIRE PROTECTION		12	12	12	12	13	14	14	15	16	17	19	28	31	28	35	35	38	43	47	53	54
SUBTOTAL		905	918	943	973	999	1027	1051	1085	1163	1266	1419	1532	1612	1678	1771	1830	1925	2020	2158	2398	2625
WOODFORD COUNTY:		99	107	117	120	121	124	135	136	138	137	142	139	141	142	145	149	151	152	153	155	163
RESIDENTIAL		6	6	7	7	7	7	8	8	8	8	8	8	8	9	9	10	12	12	12	12	12
COMMERCIAL																						
INDUSTRIAL																						
O.P.A.		1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
FIRE PROTECTION		2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
SUBTOTAL		108	117	128	131	133	136	148	149	151	150	155	152	154	156	159	164	168	169	170	172	180
FAYETTE COUNTY:		53281	54557	54912	55248	55807	56886	58186	59245	60355	62085	63633	64658	65874	67282	68832	70409	72286	73843	75777	77491	79674
RESIDENTIAL		4004	4317	4947	5816	5509	5539	5672	5875	6025	6223	6335	6434	6682	6789	6851	6886	6962	7022	7117	7198	7354
COMMERCIAL		50	53	50	44	41	37	22	19	20	15	16	16	19	20	16	15	15	15	13	13	13
INDUSTRIAL		306	356	337	404	305	320	335	393	433	430	382	384	415	414	410	414	412	415	420	424	426
O.P.A.		428	478	518	557	622	639	684	745	794	839	910	964	1001	1006	1024	1041	1061	1104	1145	1172	1222
FIRE PROTECTION		428	478	518	557	622	639	684	745	794	839	910	964	1001	1006	1024	1041	1061	1104	1145	1172	1222
SUBTOTAL		58069	59761	60764	62069	62284	63421	64899	66277	67627	69592	71276	72456	73991	75511	77133	78765	80736	82399	84472	86298	88689
CLARK COUNTY:																						
RESIDENTIAL																						1215
COMMERCIAL																						23
INDUSTRIAL																						2
O.P.A.																						0
FIRE PROTECTION																						0
SUBTOTAL																						1240

	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR
TOTAL RESIDENTIAL (Class 1) WATER USAGE BY APARTMENT CLASS - 1999 100 CU. FT.																	
USAGE CLASS	USAGE CODE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	TOTAL 100 CU FT	TOTAL 1000 GAL	AVG DAY MGD	
Single Family	A	448008	384122	371231	441705	442439	591776	671483	663234	634930	543094	472217	461300	6125539	4581903	12.55316	
Multi-Family	B	31261	28863	26994	32144	30515	33392	38655	39996	41841	40187	38732	40778	423358	316671.8	0.867594	
Garden Apt	C	16311	14179	13721	16465	15895	17567	21852	20063	22436	20500	20103	22256	221348	165568.3	0.453612	
High Rise	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Farms	F	2116	1433	1328	1514	1551	2315	2503	2667	4533	1629	1946	2155	25690	19216.12	0.052647	
Golf Course	G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hospital	H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Industrial	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Laundries	L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Motel/Hotel	M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other Water Authority	O	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hydrant Meter	P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Restaurant	R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lawn Sprinkler System	S	239	176	96	202	816	2942	4547	5492	5030	6644	3972	1529	31685	23700.38	0.064933	
University of Ky	U	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Car Wash	W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Fire Service	X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other	Z	26	26	29	31	1407	109	109	154	111	154	868	6	3030	2266.44	0.006209	
TOTAL 100 CU FT 1000 GALLONS		497961 372474.8	428799 320741.7	413399 309222.5	492061 368061.6	492623 368482	648101 484779.5	739149 552883.5	731606 547241.3	708881 530243	612208 457931.6	537838 402302.8	528024 394962	6830650	5109326	13.99815	
TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	
Page 2 of 6																	
TOTAL COMMERCIAL (Class 2) WATER USAGE BY APARTMENT CLASS - 1999 100 CU. FT.																	
USAGE CLASS	USAGE CODE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	TOTAL 100 CU FT	TOTAL 1000 GAL	AVG DAY MGD	
Single Family	A	546	25	65	73	12	16	18	11	14	18	8	7	813	608.124	0.001666	
Multi-Family	B	4444	3601	3228	3651	3548	3880	4003	4357	3910	3819	3442	3344	45227	33829.8	0.092684	
Garden Apt	C	149722	131247	126673	146438	135543	139189	157529	160459	155445	148414	136938	139311	1726908	1291727	3.538979	
High Rise	D	935	805	773	879	925	863	859	901	958	930	782	840	10450	7816.6	0.021415	
Farms	F	33683	28320	28023	37462	29958	41645	46749	49981	50265	37104	27712	28528	439430	328693.6	0.900531	
Golf Course	G	1320	251	259	1407	1568	12280	10337	19550	25092	15343	4068	508	91983	68803.28	0.188502	
Hospital	H	19873	17726	15171	19721	21965	21294	28259	26875	25258	24135	19036	18813	258126	193078.2	0.528982	
Industrial	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Laundries	L	11139	10441	11874	12424	10397	9504	10423	8653	9420	9418	10149	9947	123789	92594.17	0.253683	
Motel/Hotel	M	27886	22765	25417	30771	29677	31578	40668	40115	34449	34597	30069	27881	375873	281153	0.770282	
Other Water Authority	O	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hydrant Meter	P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000000	
Restaurant	R	25299	22396	24126	27562	26099	27503	32620	32001	33941	27370	25299	26819	331035	247614.2	0.678395	
Lawn Sprinkler System	S	926	256	209	2283	4477	10579	13277	14237	8700	4549	3493	1180	64166	47996.17	0.131496	
University of Ky	U	2830	3524	3601	3670	4025	4270	5345	4782	5205	6592	4619	4141	52604	39347.79	0.107802	
Car Wash	W	4411	4849	4424	5886	5061	5394	4981	4692	5040	4826	4252	4528	58344	43641.31	0.119565	
Fire Service	X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other	Z	227356	120867	118546	141393	147269	161226	191796	188965	191263	162064	143211	134348	1928304	1442371	3.951702	
TOTAL 100 CU FT 1000 GALLONS		510370 381756.8	367073 274570.6	362389 271067	433620 324347.8	420524 314552	469221 350977.3	546864 409054.3	555579 415573.1	548960 410622.1	479179 358425.9	413078 308982.3	400195 299345.9	5507052	4119275	11.28568	

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TOTAL INDUSTRIAL (Class 3) WATER USAGE BY APARTMENT CLASS - 1999 100 CU. FT.																
USAGE CLASS	USAGE CODE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	TOTAL 100 CU FT	TOTAL 1000 GAL	AVG DAY MGD
Single Family	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Multi-Family	B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Garden Apt	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
High Rise	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Farms	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Golf Course	G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hospital	H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Industrial	I	108319	103144	106012	121767	117479	126547	137484	156050	129783	120726	102948	97576	1427835	1068021	2.926084
Laundries	L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Motel/Hotel	M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Water Authority	O	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hydrant Meter	P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Restaurant	R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lawn Sprinkler System	S	0	0	0	0	0	40	10	78	0	0	0	0	128	95.744	0.000262
University of Ky	U	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Car Wash	W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fire Service	X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	Z	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL 100 CU FT		108319	103144	106012	121767	117479	126587	137494	156128	129783	120726	102948	97576	1427963		
1000 GALLONS		81022.61	77151.71	79296.98	91081.72	87874.29	94687.08	102845.5	116783.7	97077.68	90303.05	77005.1	72986.85		1068116	2.926346

TOPA	TOPA	TOPA	TOPA	TOPA	TOPA	TOPA	TOPA	TOPA	TOPA	TOPA	TOPA	TOPA	TOPA	TOPA	TOPA	TOPA	TOPA
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TOTAL OTHER PUBLIC AUTHORITY (Class 4) WATER USAGE BY APARTMENT CLASS - 1999 100 CU. FT.																	
USAGE CLASS	USAGE CODE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	TOTAL 100 CU FT	TOTAL 1000 GAL	AVG DAY MGD	
Single Family	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Multi-Family	B	153	150	166	156	118	125	169	184	274	152	115	144	1906	1425.688	0.003906	
Garden Apt	C	20163	16977	15802	18084	15662	14670	15366	16339	14717	16487	13385	13627	191279	143076.7	0.391991	
High Rise	D	35324	27321	30607	33271	36272	37519	53105	60560	54269	56763	37483	39197	501691	375264.9	1.028123	
Farms	F	2708	2587	2947	3212	2660	5090	5438	7458	5805	5070	2727	2575	48277	36111.2	0.098935	
Golf Course	G	1480	2747	1719	8133	7959	26576	25690	23664	23388	31121	16796	4213	173486	129767.5	0.355527	
Hospital	H	11956	9953	9438	11281	10124	10570	14271	16113	12332	12412	11006	6780	136236	101904.5	0.27919	
Industrial	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laundries	L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Motel/Hotel	M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Water Authority	O	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hydrant Meter	P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Restaurant	R	218	160	162	235	179	202	217	221	221	182	169	148	2314	1730.872	0.004742	
Lawn Sprinkler System	S	6	12	7	9	15	35	44	25	134	62	55	227	631	471.988	0.001293	
University of Ky	U	26002	20177	21150	22583	26411	22538	26836	32067	27978	31589	24115	24361	305807	228743.6	0.626695	
Car Wash	W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fire Service	X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	Z	47814	35735	36533	42233	41333	65966	44577	55041	53579	51547	49445	41612	565415	422930.4	1.158713	
TOTAL 100 CU FT		145824	115819	118531	139197	140733	183291	185713	211672	192697	205385	155296	132884	1927042			
1000 GALLONS		109076.4	86632.61	88661.19	104119.4	105268.3	137101.7	138913.3	158330.7	144137.4	153628	116161.4	99397.23		1441427	3.949116	

TOWU	TOWU	TOWU	TOWU	TOWU	TOWU	TOWU	TOWU	TOWU	TOWU	TOWU	TOWU	TOWU	TOWU	TOWU	TOWU	TOWU	TOWU
TOTAL OTHER WATER UTILITY (Class 5) WATER USAGE BY APARTMENT CLASS - 1999 100 CU. FT.																Page 5 of 6	
USAGE CLASS	USAGE CODE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	TOTAL 100 CU FT	TOTAL 1000 GAL	AVG DAY MGD	
Single Family	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Multi-Family	B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Garden Apt	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
High Rise	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Farms	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Golf Course	G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hospital	H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Industrial	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Laundries	L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Motel/Hotel	M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other Water Authority	O	42226	37660	32423	33430	79782	50660	74687	100063	94203	85943	57022	50960	739059	552816.1	1.514565	
Hydrant Meter	P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Restaurant	R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lawn Sprinkler System	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
University of Ky	U	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Car Wash	W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Fire Service	X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other	Z	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL 100 CU FT		42226	37660	32423	33430	79782	50660	74687	100063	94203	85943	57022	50960	739059			
1000 GALLONS		31585.05	28169.68	24252.4	25005.64	59676.94	37893.68	55865.88	74847.12	70463.84	64285.36	42652.46	38118.08		552816.1	1.514565	

		TS	TS	TS	TS	TS	TS	TS	TS	TS	TS	TS	TS	TS	TS	TS	TS
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TOTAL SUMMARY WATER USAGE BY APARTMENT CLASS - 1999 100 CU. FT.																	
USAGE CLASS	USAGE CODE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	TOTAL 100 CU FT	TOTAL 1000 GAL	AVG DAY MGD	
Single Family	A	448554	384147	371296	441778	442451	591792	671501	663245	634944	543112	472225	461307	6126352	4582511	12.55483	
Multi-Family	B	35858	32614	30388	35951	34181	37397	42827	44537	46025	44158	42289	44266	470491	351927.3	0.964184	
Garden Apt	C	186196	162403	156196	180987	167100	171426	194747	196861	192598	185401	170426	175194	2139535	1600372	4.384581	
High Rise	D	36259	28126	31380	34150	37197	38382	53964	61461	55227	57693	38265	40037	512141	383081.5	1.049538	
Farms	F	38507	32340	32298	42188	34169	49050	54690	60106	60603	43803	32385	33258	513397	384021	1.052112	
Golf Course	G	2800	2998	1978	9540	9527	38856	36027	43214	48480	46464	20864	4721	265469	198570.8	0.54403	
Hospital	H	31829	27679	24609	31002	32089	31864	42530	42988	37590	36547	30042	25593	394362	294982.8	0.808172	
Industrial	I	108319	103144	106012	121767	117479	126547	137484	156050	129783	120726	102948	97576	1427835	1068021	2.926084	
Laundries	L	11139	10441	11874	12424	10397	9504	10423	8653	9420	9418	10149	9947	123789	92594.17	0.253683	
Motel/Hotel	M	27886	22765	25417	30771	29677	31578	40668	40115	34449	34597	30069	27881	375873	281153	0.770282	
Other Water Authority	O	42226	37660	32423	33430	79782	50660	74687	100063	94203	85943	57022	50960	739059	552816.1	1.514565	
Hydrant Meter	P	171	1178	352	319	384	582	0	1127	0	10660	874	1377	17024	12733.95	0.034888	
Restaurant	R	25517	22556	24288	27797	26278	27705	32837	32222	34162	27552	25468	26967	333349	249345.1	0.683137	
Lawn Sprinkler System	S	1171	444	312	2494	5308	13596	17878	19832	13864	11255	7520	2936	96610	72264.28	0.197984	
University of Ky	U	28832	23701	24751	26253	30436	26808	32181	36849	33183	38181	28734	28502	358411	268091.4	0.734497	
Car Wash	W	4411	4849	4424	5886	5061	5394	4981	4692	5040	4826	4252	4528	58344	43641.31	0.119565	
Fire Service	X	170	12768	6200	1763	17050	7411	1539	192	40135	2116	33411	810	123565	92426.62	0.253224	
Other	Z	275196	156628	155108	183657	190009	227301	236482	244160	244953	213765	193524	175966	2496749	1867568	5.116625	
TOTAL 100 CU FT		1305041	1066441	1039306	1222157	1268575	1485853	1685446	1756367	1714659	1516217	1300467	1211826	16572355			
1000 GALLONS		976170.7	797697.9	777400.9	914173.4	948894.1	1111418	1260714	1313763	1282565	1134130	972749.3	906445.8		12396122	33.96198	