

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

	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%

[illegible]

2/14/02 1 of 33 01updtUL99 KAW_R_PSCDR2#18b SCH1_021402

Calendar Year	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	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	2.32	2.64	2.17	2.38	2.40	2.32	2.38	2.38	2.37	2.38	2.37	2.38	2.39
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	36.14	36.34	36.71	36.77	36.69	36.81	36.99	37.15	37.25	37.34	37.28	37.48	37.72
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%	11.90%	13.70%	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).....	6.04	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	4.88	5.77	6.38	6.39	6.37	6.39	6.43	6.45	6.47	6.49	6.48	6.51	6.55
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	39.69	41.02	42.11											
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	42.51	43.65	43.24	39.99	41.54	42.59	43.01	43.08	42.98	43.12	43.33	43.51	43.62	43.73	43.65	43.88	44.16
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	70.59	71.76	71.64	66.55	69.07	70.23	70.49	70.62	70.46	70.68	71.01	71.29	71.46	71.64	71.51	71.93	72.23
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	61.18	66.37	56.04											
Conservation Impacts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-1.95	-0.31	-1.67	-0.55	-0.30	-0.53	-1.39	-2.13	-2.32	-2.49	-2.51	-2.52	-2.53	-2.54	-2.55	-2.53	-2.53	-2.54
Total Average Day Demand (mgd).....																41.20	40.88	40.77	40.49	40.62	40.81	40.98	41.08	41.18	41.13	41.35	41.62
Max Day: 95% Exceedance (mgd).....	55.94	59.74	57.93	54.01	55.38	58.46	57.53	61.67	63.80	62.88	67.37	66.28	68.15	63.58	65.59	68.71	68.22	68.17	67.83	68.03	68.35	68.62	68.79	68.95	68.85	69.26	69.55
In Plant Usage (mgd)	1.617	2.37	1.91	1.77	1.36	1.40	1.42	1.55	1.59	1.64	1.66	1.71	1.69	1.56	1.62	1.67	1.68	1.68	1.68	1.69	1.69	1.70	1.71	1.71	1.71	1.72	1.73
Total Max Day Production (mgd)[95%excd]	59.087	57.26	65.82	49.49	59.88	57.82	48.64	61.04	65.39	64.52	69.04	67.99	69.85	65.14	67.21	70.37	69.90	69.85	69.51	69.72	70.05	70.32	70.49	70.66	70.56	70.97	71.28
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.																											

* 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	38.30	38.52	38.92	38.98	38.89	39.02	39.21	39.38	39.48	39.59	39.51	39.73	39.99
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%	11.90%	13.70%	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	6.25	7.39	6.74	6.79	5.48	6.63	5.57	4.84	5.17	6.11	6.76	6.77	6.75	6.78	6.81	6.84	6.86	6.88	6.86	6.90	6.95
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	45.04	46.17	45.80	42.37	44.00	45.11	45.60	45.67	45.57	45.72	45.94	46.12	46.24	46.36	46.28	46.52	46.82
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	74.93	76.04	76.03	70.66	73.31	74.54	74.87	75.01	74.84	75.07	75.43	75.72	75.91	76.09	75.96	76.40	76.73
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	61.18	66.37	56.04											
CONSERVATION IMPACTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-1.95	-0.31	-1.67	-0.55	-0.30	-0.53	-1.39	-2.13	-2.32	-2.49	-2.51	-2.52	-2.53	-2.54	-2.55	-2.53	-2.53	-2.54
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	42.07	43.48	43.72	43.47	43.35	43.07	43.21	43.42	43.59	43.71	43.81	43.75	43.99	44.27
6-mo Summer Avg. Day Dem.: 95% C. I. (mgd) w/out cons.		51	49	46	47	50	49	53	54	56	57	58	57	53	55	57	57	57	57	57	58	58	58	58	58	58	59
6-mo Summer Avg. Day Dem.: 99% C. I. (mgd) w/out cons.		52	50	47	48	51	50	54	55	57	58	59	59	54	56	58	58	58	58	58	59	59	59	59	59	59	60
6-mo Summer Avg. Day Dem.: 95% C. I. (mgd) w/ cons.		51	49	46	47	50	49	53	54	54	56	56	57	53	55	55	55	55	54	54	55	55	55	55	55	55	56
6-mo Summer Avg. Day Dem.: 99% C. I. (mgd) w/ cons.		52	50	47	48	51	50	54	55	55	57	57	58	54	56	56	56	56	55	55	56	56	56	56	56	56	57
MAX DAY: 95% EXCEEDANCE (mgd).....	59.30	63.32	61.40	57.25	58.70	61.97	60.98	65.37	67.64	67.98	71.62	71.36	72.55	67.49	69.75	73.02	72.60	72.56	72.21	72.43	72.77	73.05	73.23	73.41	73.29	73.72	74.05
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	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
TOTAL MAX DAY PRODUCTION (mgd)[95%excd]	56.49	65.51	65.51	49.32	60.12	58.02	48.82	61.09	69.24	69.58	73.22	72.96	74.15	69.09	71.35	74.62	74.20	74.16	73.81	74.03	74.37	74.65	74.83	75.01	74.89	75.32	75.65

SURROUNDING COUNTIES--INDIVIDUAL CUSTOMER

WATER DEMAND	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2015	2020
WOODFORD COUNTY																											
Population	18884	19076	19900	19928	19955	20270	20585	20934	21283	21632	21988	22344	22689	23033	23378	23663.2	23948.4	24233.6	24518.8	24804	25089.2	25374.4	25659.6	25944.8	25741	26530	27359
No. of resid. connections	138	137	142	139	141	142	145	149	151	152	153	155	163	171	179	181	183	186	188	190	192	194	196	199	197	203	209
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	2.43	2.42	2.41	2.40	2.40	2.39	2.38	2.37	2.36	2.35	2.31	2.27
Population Served	386	384	399	387	389	385	387	391	389	385	384	387	404	420	437	440	444	448	451	455	458	462	465	469	463	469	476
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	81.48	84.06	84.90	85.05	84.79	84.58	84.44	84.43	84.84	85.11	85.25	85.25	85.25	85.25
New Customer Per Capita Use (GPD)											81.34	76.94	81.94	73.33	75.66	76.41	76.54	76.32	76.12	75.99	75.99	76.36	76.60	76.72	76.72	76.72	76.72
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	0.04	0.04	0.04	0.04	0.04	0.04	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	33243.4	34113.8	34984.2	35854.6	36725	37595.4	38465.8	39336.2	40206.6	39658	42443	45853
No. of resid. connections	1055	1149	1287	1373	1446	1507	1571	1628	1716	1799	1926	2142	2362	2560	2770	2844	2919	2993	3068	3142	3217	3291	3366	3440	3393	3632	3923
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	2.48	2.47	2.45	2.44	2.43	2.42	2.41	2.39	2.38	2.37	2.32	2.27
Population Served	3060	3332	3565	3783	3962	4084	4210	4314	4496	4659	4950	5462	5976	6426	6897	7049	7198	7346	7492	7636	7778	7919	8058	8195	8042	8425	8906
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	81.48	84.06	84.90	85.05	84.79	84.58	84.44	84.43	84.84	85.11	85.25	85.25	85.25	85.25
New Customer Per Capita Use (GPD)											81.34	76.94	81.94	73.33	75.66	76.41	76.54	76.32	76.12	75.99	75.99	76.36	76.60	76.72	76.72	76.72	76.72
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	0.51	0.56	0.58	0.59	0.60	0.61	0.62	0.63	0.64	0.66	0.67	0.66	0.69	0.72
BOURBON COUNTY																											
Population	19188	19088	18978	19277	19236	19316	19397	19396	19395	19394	19576	19349	19338	19327	19316	19306	19296	19286	19276	19266	19256	19246	19236	19226	19222	19129	18929
No. of resid. connections	394	391	394	407	409	419	427	433	441	477	486	506	538	575	645	645	644	644	643	643	643	643	642	642	642	639	632
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	2.42	2.41	2.40	2.39	2.39	2.38	2.37	2.36	2.35	2.34	2.31	2.28
Population Served	1064	1056	1076	1105	1104	1114	1117	1115	1117	1188	1204	1248	1320	1404	1567	1561	1554	1548	1541	1534	1528	1521	1515	1508	1502	1476	1441
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	81.48	84.06	84.90	85.05	84.79	84.58	84.44	84.43	84.84	85.11	85.25	85.25	85.25	85.25
New Customer Per Capita Use (GPD)											81.34	76.94	81.94	73.33	75.66	76.41	76.54	76.32	76.12	75.99	75.99	76.36	76.60	76.72	76.72	76.72	76.72
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	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.12
HARRISON COUNTY																											
Population	15722	15907	15887	16195	16248	16387	16526	16692	16857	17023	17200	17352	17500	17647	17795	17905.2	18015.4	18125.6	18235.8	18346	18456.2	18566.4	18676.6	18786.8	18625	18859	19145
No. of resid. connections	78	77	80	80	80	78	79	78	80	83	84	84	85	84	85	86	86	87	87	88	88	89	89	90	89	90	91
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	2.43	2.42	2.41	2.40	2.40	2.39	2.38	2.37	2.36	2.35	2.32	2.29
Population Served	211	208	217	216	215	207	207	201	204	208	210	208	210	206	207	208	208	209	209	210	210	211	211	212	209	209	209
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	81.48	84.06	84.90	85.05	84.79	84.58	84.44	84.43	84.84	85.11	85.25	85.25	85.25	85.25
New Customer Per Capita Use (GPD)											81.34	76.94	81.94	73.33	75.66	76.41	76.54	76.32	76.12	75.99	75.99	76.36	76.60	76.72	76.72	76.72	76.72
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	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	32865.6	33120.2	33374.8	33629.4	33884	34138.6	34393.2	34647.8	34902.4	34710	35359	35935
No. of residential connections										1109	1180	1205	1215	1298	1320	1330	1341	1351	1361	1372	1382	1392	1402	1413	1405	1431	1455
Persons per household										2.55	2.54	2.53	2.53	2.52	2.51	2.50	2.49	2.49	2.48	2.47	2.46	2.45	2.45	2.44	2.43	2.40	2.37
Population Served										3000	3053	3069	3268	3313	3328	3343	3358	3373	3388	3402	3416	3430	3444	3414	3435	3447	
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	81.48	84.06	84.90	85.05	84.79	84.58	84.44	84.43	84.84	85.11	85.25	85.25	85.25	85.25
New Customer Per Capita Use (GPD)											81.34	76.94	81.94	73.33	75.66	76.41	76.54	76.32	76.12	75.99	75.99	76.36	76.60	76.72	76.72	76.72	76.72
CLARK CO. WATER DEMAND (in MGD)															0.25	0.24	0.25	0.25	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
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	0.91	0.99	1.02	1.03	1.04	1.05	1.06	1.07	1.09	1.10	1.12	1.10	1.13	1.17

OUTSIDE COUNTIES--BULK SALES
WATER DEMAND

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2015	2020
MIDWAY																											
Woodford Co.population projections	18884	19076	19900	19928	19955	20270	20585	20934	21283	21632	21988	22344	22689	23033	23378	23663.2	23948.4	24233.6	24518.8	24804	25089.2	25374.4	25659.6	25944.8	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	0.15	0.19	0.16	0.17	0.18	0.18	0.18	0.18	0.18	0.19	0.18	0.19	0.20
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	0.15	0.19	0.16	0.17	0.18	0.18	0.18	0.18	0.18	0.19	0.18	0.19	0.20
VERSAILLES																											
Woodford Co.population projections	18884	19076	19900	19928	19955	20270	20585	20934	21283	21632	21988	22344	22689	23033	23378	23663.2	23948.4	24233.6	24518.8	24804	25089.2	25374.4	25659.6	25944.8	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	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Projected bulk consumption (mgd)													0.00	0.00	0.13	0.15	0.14	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.07	0.20
(supplemental supply)																											
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	0.10	0.09	0.14	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	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	38896.8	39530.6	40164.4	40798.2	41432	42065.8	42699.6	43333.4	43967.2	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	0.20	0.26	0.22	0.23	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.24	0.25	0.27
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	0.26	0.22	0.23	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.24	0.25	0.27
SOUTH ELKHORN DISTRICT																											
Jessamine Co.population projections	28911	29338	30610	30559	30508	31016	31524	32470	33417	34363	35105	36038	36780	37521	38263	38896.8	39530.6	40164.4	40798.2	41432	42065.8	42699.6	43333.4	43967.2	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	0.51	0.52	0.54	0.53	0.54	0.55	0.55	0.55	0.56	0.56	0.57	0.56	0.58	0.61
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	0.52	0.54	0.53	0.54	0.55	0.55	0.55	0.56	0.56	0.57	0.56	0.58	0.61
NORTH MIDDLETOWN																											
Bourbon Co. population projections	19188	19088	18978	19277	19236	19316	19397	19396	19395	19394	19576	19349	19338	19327	19316	19306	19296	19286	19276	19266	19256	19246	19236	19226	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	0.13	0.14	0.20	0.16	0.17	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
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	0.14	0.20	0.16	0.17	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
GEORGETOWN MUNICIPAL WATER																											
Scott Co. population projections	22689	23501	22760	23313.5	23867	24135	24403	25360	26317	27274	27731	29446	30423	31397	32373	33243.4	34113.8	34984.2	35854.6	36725	37595.4	38465.8	39336.2	40206.6	39658	42443	45853
Average bulk consumption (mgd)												0.02	0.12	0.25	0.22	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.09	
GEORGETOWN WATER DEMAND (in MGD)												0.02	0.12	0.25	0.22	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.09	
Harrison County Water Association																											
Harrison County population projections	15722	15907	15887	16195	16248	16387	16526	16692	16857	17023	17200	17352	17500	17647	17795	17905.2	18015.4	18125.6	18235.8	18346	18456.2	18566.4	18676.6	18786.8	18625	18859	19145
Average bulk consumption (mgd)																0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
HARRISON COUNTY WATER DEMAND (MGD)																0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
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	1.39	1.38	1.37	1.38	1.40	1.41	1.42	1.43	1.44	1.45	1.43	1.43	1.61

CONSERVATION PROGRAM IMPACTS

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	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	0	0	0	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	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	0.01	0.04	0.09	0.14	0.21	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	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	3.80	3.80												
HOUSEHOLDS PARTICIPATING										500	3000	10000	12500	12500	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	0.05	0.05	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	0.01	0.05	0.10	0.15	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
INTERIOR HOME CONSULTATION SAVINGS PER HOUSEHOLD																	23.76	23.76	23.76	23.76	23.76	23.76	23.76	23.76			
HOUSEHOLDS PARTICIPATING																	200	200	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	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	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.02	0.02	0.02
COMMERCIAL/INDUSTRIAL INTERNAL AUDIT SAVINGS PER COMMERCIAL UNIT																	523	523	523								
UNITS PARTICIPATING																	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	0.10	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SAVINGS PER INDUSTRIAL UNIT																	70824	70824	70824								
UNITS PARTICIPATING																	1	1	1								
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	0.07	0.07	0.07	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	0.00	0.00	0.00	0.00	0.00	0.18	0.35	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	
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	0.00	0.00	0.00	0.00	0.00					0.00					0.00	0.00	0.00
SAVINGS PER INDUSTRIAL UNIT																	1127	1127	1127	1127	1127						
UNITS PARTICIPATING																	2	2	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	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	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
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	0.05	0.91	1.47	1.47	1.46	1.47	1.48	1.48	1.49	1.49	1.49	1.50	1.51
TOTAL SAVINGS FROM CONSERVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	1.95	0.31	1.67	0.55	0.30	0.53	1.39	2.13	2.32	2.49	2.51	2.52	2.53	2.54	2.55	2.53	2.53	2.54

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	13.0847	12.3511
OUT CTY	1.41047	2.4662

MULTI	8.70121	7.25896	FROM AMY
SFR PER CAP USAGE	90.379	84.4372	FROM AMY
MFR PER CAP USAGE	109.25	88.31	

SFR POPULATION	160382	175483
MFR POPULATION	79642	82195

PEOPLE/UNIT	2.64	2.52
EQU. RESID. CUSTOMERS	90918	102253

COMM & IND SAVINGS	0.15	0.44
GOVT AND UK SAVINGS	0.08	0.15
ESTIMATED APC SAVINGS, MGD		
HIGH	0.98	2.95
LOW	0.85	2.56
AVG.	0.91	2.75

MODEL UPDATE MARCH, 1992
RUN DATE 02/10/02
DIRECTORY: \\Engineering\\Demand Projections
FILENAME: 01DEMFOR.XLW
SHEET: 01updtuc

	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%

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Calendar Year	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	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	2.32	2.64	2.18	2.40	2.42	2.35	2.41	2.41	2.40	2.42	2.43	2.47	2.51
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	36.14	36.34	36.92	37.02	36.98	37.16	37.40	37.75	37.93	38.11	38.22	38.80	39.55
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%	11.90%	13.70%	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).....	6.04	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	4.88	5.77	6.41	6.43	6.42	6.45	6.50	6.56	6.59	6.62	6.64	6.74	6.87
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	39.69	41.02	42.11											
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	42.51	43.65	43.24	39.99	41.54	43.50	43.25	43.36	43.31	43.52	43.79	44.19	44.39	44.60	44.72	45.38	46.23
Maximum Day w/out Conservation (mgd)	59.74	63.47	61.71	57.78	59.16	62.25	61.34	65.44	67.76	70.17	71.97	73.14	73.05	67.86	70.43	70.55	70.52	70.93	71.05	71.57	72.21	73.05	73.58	74.11	74.51	76.02	77.25
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	61.18	66.37	56.04											
Conservation Impacts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-1.95	-0.31	-1.67	-0.55	-0.30	-0.53	-1.39	-2.14	-2.33	-2.51	-2.52	-2.53	-2.55	-2.57	-2.58	-2.56	-2.59	-2.62
Total Average Day Demand (mgd).....																	41.11	41.04	40.81	41.00	41.26	41.64	41.83	42.02	42.16	42.80	43.61
Max Day: 95% Exceedance (mgd).....	57.04	60.90	59.08	55.11	56.51	59.62	58.66	62.87	65.07	64.12	68.74	67.60	69.54	64.88	66.92	68.16	68.24	68.46	68.40	68.90	69.53	70.35	70.87	71.39	71.80	73.28	74.49
In Plant Usage (mgd)	1.617	2.37	1.91	1.77	1.36	1.40	1.42	1.55	1.59	1.64	1.66	1.71	1.69	1.56	1.62	1.70	1.69	1.70	1.69	1.70	1.71	1.73	1.74	1.74	1.75	1.77	1.81
Total Max Day Production (mgd)[95%excd]	59.087	57.26	65.82	49.49	59.88	57.82	48.64	61.04	66.66	65.77	70.41	69.31	71.23	66.44	68.55	69.86	69.93	70.16	70.09	70.60	71.24	72.08	72.60	73.13	73.55	75.06	76.29
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	38.30	38.52	39.13	39.24	39.20	39.39	39.64	40.01	40.20	40.40	40.51	41.13	41.92
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%	11.90%	13.70%	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	6.25	7.39	6.74	6.79	5.48	6.63	5.57	4.84	5.17	6.11	6.80	6.82	6.81	6.84	6.89	6.95	6.98	7.02	7.04	7.14	7.28
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	45.04	46.17	45.80	42.37	44.00	45.11	45.85	45.97	45.92	46.13	46.42	46.85	47.06	47.29	47.41	48.11	49.01
Maximum Day w/out Conservation (mgd)	63.46	67.43	65.56	61.39	62.85	66.13	65.16	69.51	71.96	74.31	76.39	77.50	77.52	72.05	74.75	73.08	74.71	75.13	75.24	75.78	76.45	77.34	77.88	78.44	78.85	80.42	81.73
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	61.18	66.37	56.04											
CONSERVATION IMPACTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-1.95	-0.31	-1.67	-0.55	-0.30	-0.53	-1.39	-2.14	-2.33	-2.51	-2.52	-2.53	-2.55	-2.57	-2.58	-2.56	-2.59	-2.62
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	42.07	43.48	43.72	43.71	43.64	43.41	43.61	43.89	44.29	44.50	44.71	44.85	45.53	46.40
6-mo Summer Avg. Day Dem.: 95% C. I. (mgd) w/out cons.		51	49	46	47	50	49	53	54	56	57	58	57	53	55	57	57	58	58	58	58	59	59	59	59	60	61
6-mo Summer Avg. Day Dem.: 99% C. I. (mgd) w/out cons.		52	50	47	48	51	50	54	55	57	58	59	59	54	56	58	59	59	59	59	59	60	60	60	61	61	62
6-mo Summer Avg. Day Dem.: 95% C. I. (mgd) w/ cons.		51	49	46	47	50	49	53	54	56	57	58	57	53	55	55	55	55	55	55	55	56	56	56	56	57	58
6-mo Summer Avg. Day Dem.: 99% C. I. (mgd) w/ cons.		52	50	47	48	51	50	54	55	55	57	57	58	54	56	56	56	56	56	56	56	57	57	57	57	58	59
MAX DAY: 95% EXCEEDANCE (mgd).....	60.46	64.56	62.63	58.42	59.90	63.20	62.18	66.65	68.98	69.37	73.08	72.82	74.03	68.88	71.18	71.55	72.42	72.66	72.59	73.12	73.77	74.64	75.17	75.71	76.14	77.69	78.97
IN PLANT USE(mgd)	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2	2	2	2	2	2	2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
TOTAL MAX DAY PRODUCTION (mgd)[95%excd]	56.49	65.51	49.32	60.12	58.02	48.82	61.09	70.58	71.37	75.08	74.82	76.03	70.88	73.18	73.55	74.52	74.86	74.79	75.32	75.97	76.84	77.37	77.91	78.34	79.89	81.17	

SURROUNDING COUNTIES--INDIVIDUAL CUSTOMER

WATER DEMAND	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2015	2020
WOODFORD COUNTY																											
Population	18884	19076	19900	19928	19955	20270	20585	20934	21283	21632	21988	22344	22689	23033	23378	23663.2	23948.4	24233.6	24518.8	24804	25089.2	25374.4	25659.6	25944.8	25741	26530	27359
No. of resid. connections	138	137	142	139	141	142	145	149	151	152	153	155	163	171	179	181	183	186	188	190	192	194	196	199	197	203	209
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	2.43	2.42	2.41	2.40	2.40	2.39	2.38	2.37	2.36	2.35	2.31	2.27
Population Served	386	384	399	387	389	385	387	391	389	385	384	387	404	420	437	440	444	448	451	455	458	462	465	469	463	469	476
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	78.26	80.14	80.59	81.76	81.52	81.31	81.17	81.17	81.56	81.81	81.94	81.94	81.94	81.94
New Customer Per Capita Use (GPD)											79.59	75.03	79.29	70.43	72.13	72.53	73.58	73.37	73.18	73.05	73.05	73.40	73.63	73.75	73.75	73.75	73.75
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	0.04	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	33243.4	34113.8	34984.2	35854.6	36725	37595.4	38465.8	39336.2	40206.6	39658	42443	45853
No. of resid. connections	1055	1149	1287	1373	1446	1507	1571	1628	1716	1799	1926	2142	2362	2560	2770	2844	2919	2993	3068	3142	3217	3291	3366	3440	3393	3632	3923
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	2.48	2.47	2.45	2.44	2.43	2.42	2.41	2.39	2.38	2.37	2.32	2.27
Population Served	3060	3332	3565	3783	3962	4084	4210	4314	4496	4659	4950	5462	5976	6426	6897	7049	7198	7346	7492	7636	7778	7919	8058	8195	8042	8425	8906
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	78.26	80.14	80.59	81.76	81.52	81.31	81.17	81.17	81.56	81.81	81.94	81.94	81.94	81.94
New Customer Per Capita Use (GPD)											79.59	75.03	79.29	70.43	72.13	72.53	73.58	73.37	73.18	73.05	73.05	73.40	73.63	73.75	73.75	73.75	73.75
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	0.49	0.53	0.55	0.57	0.58	0.59	0.60	0.61	0.62	0.63	0.64	0.63	0.66	0.70
BOURBON COUNTY																											
Population	19188	19088	18978	19277	19236	19316	19397	19396	19395	19394	19576	19349	19338	19327	19316	19306	19296	19286	19276	19266	19256	19246	19236	19226	19222	19129	18929
No. of resid. connections	394	391	394	407	409	419	427	433	441	477	486	506	538	575	645	645	644	644	644	643	643	643	642	642	642	639	632
Persons per household	2.70	2.70	2.73	2.72	2.70	2.66	2.62	2.57	2.53	2.49	2.47	2.45	2.44	2.43	2.42	2.41	2.40	2.39	2.38	2.37	2.36	2.35	2.34	2.32	2.31	2.28	
Population Served	1064	1056	1076	1105	1104	1114	1117	1115	1117	1188	1204	1248	1320	1404	1567	1561	1554	1548	1541	1534	1528	1521	1515	1508	1502	1476	1441
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	78.26	80.14	80.59	81.76	81.52	81.31	81.17	81.17	81.56	81.81	81.94	81.94	81.94	81.94
New Customer Per Capita Use (GPD)											79.59	75.03	79.29	70.43	72.13	72.53	73.58	73.37	73.18	73.05	73.05	73.40	73.63	73.75	73.75	73.75	73.75
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	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
HARRISON COUNTY																											
Population	15722	15907	15887	16195	16248	16387	16526	16692	16857	17023	17200	17352	17500	17647	17795	17905.2	18015.4	18125.6	18235.8	18346	18456.2	18566.4	18676.6	18786.8	18625	18859	19145
No. of resid. connections	78	77	80	80	80	78	79	78	80	83	84	84	85	84	85	86	86	87	87	88	88	89	89	90	89	90	91
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	2.43	2.42	2.41	2.40	2.40	2.39	2.38	2.37	2.36	2.35	2.32	2.29
Population Served	211	208	217	216	215	207	207	201	204	208	210	208	210	206	207	208	208	209	209	210	210	211	211	212	209	209	209
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	78.26	80.14	80.59	81.76	81.52	81.31	81.17	81.17	81.56	81.81	81.94	81.94	81.94	81.94
New Customer Per Capita Use (GPD)											79.59	75.03	79.29	70.43	72.13	72.53	73.58	73.37	73.18	73.05	73.05	73.40	73.63	73.75	73.75	73.75	73.75
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	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	32865.6	33120.2	33374.8	33629.4	33884	34138.6	34393.2	34647.8	34902.4	34710	35359	35935
No. of residential connections										1109	1180	1205	1215	1298	1320	1330	1341	1351	1361	1372	1382	1392	1402	1413	1405	1431	1455
Persons per household										2.55	2.54	2.53	2.53	2.52	2.51	2.50	2.49	2.49	2.48	2.47	2.46	2.45	2.45	2.44	2.43	2.40	2.37
Population Served										3000	3053	3069	3268	3313	3328	3343	3358	3373	3388	3402	3416	3430	3444	3444	3414	3435	3447
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	78.26	80.14	80.59	81.76	81.52	81.31	81.17	81.17	81.56	81.81	81.94	81.94	81.94	81.94
New Customer Per Capita Use (GPD)											79.59	75.03	79.29	70.43	72.13	72.53	73.58	73.37	73.18	73.05	73.05	73.40	73.63	73.75	73.75	73.75	73.75
CLARK CO. WATER DEMAND (in MGD)													0.24	0.23	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.25	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	0.46	0.45	0.49	0.53	0.54	0.59	0.60	0.93	0.88	0.95	0.96	0.99	1.00	1.01	1.02	1.03	1.05	1.06	1.07	1.06	1.09	1.12

OUTSIDE COUNTIES--BULK SALES

WATER DEMAND	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2015	2020
MIDWAY																											
Woodford Co.population projections	18884	19076	19900	19928	19955	20270	20585	20934	21283	21632	21988	22344	22689	23033	23378	23663.2	23948.4	24233.6	24518.8	24804	25089.2	25374.4	25659.6	25944.8	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	0.15	0.19	0.16	0.17	0.18	0.18	0.18	0.18	0.18	0.19	0.18	0.19	0.20
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	0.15	0.19	0.16	0.17	0.18	0.18	0.18	0.18	0.18	0.19	0.18	0.19	0.20
VERSAILLES																											
Woodford Co.population projections	18884	19076	19900	19928	19955	20270	20585	20934	21283	21632	21988	22344	22689	23033	23378	23663.2	23948.4	24233.6	24518.8	24804	25089.2	25374.4	25659.6	25944.8	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	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	0.13	0.15	0.14	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	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	0.10	0.09	0.14	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	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	38896.8	39530.6	40164.4	40798.2	41432	42065.8	42699.6	43333.4	43967.2	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	0.20	0.26	0.22	0.23	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.24	0.25	0.27
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	0.26	0.22	0.23	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.24	0.25	0.27
SOUTH ELKHORN DISTRICT																											
Jessamine Co.population projections	28911	29338	30610	30559	30508	31016	31524	32470	33417	34363	35105	36038	36780	37521	38263	38896.8	39530.6	40164.4	40798.2	41432	42065.8	42699.6	43333.4	43967.2	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	0.51	0.52	0.54	0.53	0.54	0.55	0.55	0.55	0.56	0.56	0.57	0.56	0.58	0.61
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	0.52	0.54	0.53	0.54	0.55	0.55	0.55	0.56	0.56	0.57	0.56	0.58	0.61
NORTH MIDDLETOWN																											
Bourbon Co. population projections	19188	19088	18978	19277	19236	19316	19397	19396	19395	19394	19576	19349	19338	19327	19316	19306	19296	19286	19276	19266	19256	19246	19236	19226	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	0.13	0.14	0.20	0.16	0.17	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
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	0.14	0.20	0.16	0.17	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
GEORGETOWN MUNICIPAL WATER																											
Scott Co. population projections	22689	23501	22760	23313.5	23867	24135	24403	25360	26317	27274	27731	29446	30423	31397	32373	33243.4	34113.8	34984.2	35854.6	36725	37595.4	38465.8	39336.2	40206.6	39658	42443	45853
Average bulk consumption (mgd)												0.02	0.12	0.25	0.22	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.09	
GEORGETOWN WATER DEMAND (in MGD)												0.02	0.12	0.25	0.22	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.09	
Harrison County Water Association																											
Harrison County population projections	15722	15907	15887	16195	16248	16387	16526	16692	16857	17023	17200	17352	17500	17647	17795	17905.2	18015.4	18125.6	18235.8	18346	18456.2	18566.4	18676.6	18786.8	18625	18859	19145
Average bulk consumption (mgd)																0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
HARRISON COUNTY WATER DEMAND (MGD)																0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
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	1.39	1.38	1.37	1.38	1.40	1.41	1.42	1.43	1.44	1.45	1.43	1.43	1.61

CONSERVATION PROGRAM IMPACTS

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	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	0	0	0	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	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	0.01	0.04	0.09	0.14	0.21	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	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	3.80	3.80												
HOUSEHOLDS PARTICIPATING										500	3000	10000	12500	12500	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	0.05	0.05	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	0.01	0.05	0.10	0.15	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
INTERIOR HOME CONSULTATION SAVINGS PER HOUSEHOLD																	23.76	23.76	23.76	23.76	23.76	23.76	23.76	23.76	23.76	23.76	
HOUSEHOLDS PARTICIPATING																	200	200	200	200	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	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	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.02	0.02	0.02
COMMERCIAL/INDUSTRIAL INTERNAL AUDIT SAVINGS PER COMMERCIAL UNIT																	523	523	523								
UNITS PARTICIPATING																	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	0.10	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SAVINGS PER INDUSTRIAL UNIT																	70824	70824	70824								
UNITS PARTICIPATING																	1	1	1								
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	0.07	0.07	0.07	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	0.00	0.00	0.00	0.00	0.00	0.18	0.35	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53
INDUSTRIAL/UK EXTERIOR AUDIT UNIVERSITY OF KENTUCKY																				0.00					0.00	0.00	0.00
SAVINGS PER INDUSTRIAL UNIT																	1127	1127	1127	1127	1127						
UNITS PARTICIPATING																	2	2	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	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	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
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	0.05	0.91	1.47	1.48	1.48	1.48	1.49	1.51	1.51	1.52	1.53	1.55	1.58
TOTAL SAVINGS FROM CONSERVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	1.95	0.31	1.67	0.55	0.30	0.53	1.39	2.14	2.33	2.51	2.52	2.53	2.55	2.57	2.58	2.56	2.59	2.62

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	13.0977	12.7265
OUT CTY	1.39742	2.42523

MULTI	8.70121	7.17643	FROM AMY
SFR PER CAP USAGE	88.4371	81.1714	FROM AMY
MFR PER CAP USAGE	106.93	81.65	

SFR POPULATION	163903	186664
MFR POPULATION	81374	87893
PEOPLE/UNIT	2.64	2.52
EQU.RESID.CUSTOMERS	92908	108951

COMM & IND SAVINGS	0.15	0.44
GOVT AND UK SAVINGS	0.08	0.15
ESTIMATED APC SAVINGS, MGD		
HIGH	0.99	3.10
LOW	0.86	2.69
AVG.	0.93	2.89

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

MODEL UPDATE MARCH, 1992
RUN DATE 02/10/02
DIRECTORY: \\Engineering\\Demand Projections
FILENAME: 01DEMFOR.XLW
SHEET: 01updtULHI

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%

2001 Usage with 1995 Kentucky State Data Center High Growth Series Population Projections	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2015	2020
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%	3.45%	2.21%	2.80%	5.00%	5.00%	5.00%	5.00%	5.00%	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%	0.00%	0.00%	7.79%	20.00%	0.00%	0.00%	0.00%	5.00%	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%	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%	0.5%	0.5%	0.5%	0.5%	2.2%	0.5%	0.5%	0.5%	0.5%	1.9%	1.6%	1.1%
			1.1%	0.0%	1.1%	1.5%	1.4%	1.4%	1.4%	1.4%	1.6%	1.6%	1.5%	1.5%	1.5%	1.1%	1.1%	1.1%	1.1%	5.6%	1.1%	1.0%	1.0%	1.0%	5.3%	4.7%	4.5%
Calendar Year	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2015	2020
Total Population (Fayette County)	217701	220526	222912	222904	225366	228638	231911	235183	238456	241728	245554.6	249381.2	253207.8	257034.4	260861	263,775	266,689	269,603	272,517	275,431	278,344	281,258	284,172	287,086	290000	303516	317032
Apartment Population	70546	71462	72235	72232	75741	76841	77941	79040	80140	81240	82526	83812	85098	86384	87670	88649.5	89628.8	90608.1	91587.4	92567	93546	94525.3	95504.6	96483.9	97463	102006	106548
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	8200	8200	8200	8200	8200	8200	8200	8200
Inmates of Institutions	3793	4116	4439	4761	5084	5158	5232	5305	5379	5453	5539	5626	5712	5798	5885	5950.46	6016.2	6081.93	6147.66	6213	6279.13	6344.87	6410.6	6476.34	6542	6847	7152
Remaining Population Served (SFR, Fayette Co)	135209	136748	138039	137710	136341	138440	140539	142637	144736	146835	149289	151743	154198	156652	159106	160,975	162,844	164,713	166,582	168450	170319.3	172188.2	174057	175925.9	177795	186463	195132
Outside County Population Served	4720	4979	5256	5491	5671	5790	5921	6021	6205	6440	6748	7305	7909	8456	9109	9164	9218	9272	9324	9376	9427	9477	9526	9574	9621	9807	9978
New Residents											2762	5773	8832	11833	14940	16864	18787	20710	22631	24552	26471	28390	30308	32225	34141	42995	51835
Actual Number of Total Customers	69437	71500	73348	74653	76274	77871	79600	81301	83382	85180	87403	89491	93391	96477	99199	103185											
Usage Per Customer (gpd)	515	535	500	453	453	477	460	486	486	470	483	469	457	411	413	408											
Single Family Residential Per Capita Use (gpd)	85.54	89.11	85.17	76.10	79.49	80.43	75.88	81.00	84.90	83.18	87.75	82.40	86.76	76.79	78.37	78.56	80.25	80.01	79.81	79.67	79.67	80.05	80.30	80.43	80.43	80.43	80.43
New Resident SFR Per Capita Use (gpd)											78.97	74.16	78.09	69.11	70.54	70.70	72.23	72.01	71.83	71.71	71.70	72.04	72.27	72.39	72.39	72.39	72.39
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	13.18	13.37	13.66	13.76	13.86	13.97	14.11	14.31	14.50	14.66	14.80	15.44	16.08
Fayette Co. Residential use (in mgd).....	11.57	12.19	11.76	10.48	10.84	11.13	10.66	11.55	12.29	12.21	13.10	12.51	13.15	11.82	12.26	12.43	12.70	12.80	12.90	13.01	13.14	13.34	13.52	13.67	13.81	14.43	15.06
Apartment Population	70546	71462	72235	72232	75741	76841	77941	79040	80140	81240	82526	83812	85098	86384	87670	88649	89629	90608	91587	92567	93546	94525	95505	96484	97463	102006	106548
New Residents											1286	2572	3858	5144	6430	7410	8389	9368	10347	11327	12306	13285	14265	15244	16223	20766	25308
Number of Customers																											
Usage Per Customer																											
Existing Apart. Resident Per Capita Use (gpd)	79.66	83.04	78.91	80.71	75.56	74.65	74.33	76.28	77.54	77.41	105.44	90.32	89.87	74.07	79.21	77.41	81.97	80.35	78.46	79.39	79.52	80.18	79.75	79.55	79.68	79.68	79.68
New Resident MFR Per Capita Use (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	1.21	1.18											
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	4.78	4.77											
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	0.96	0.91											
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	6.94	6.86	7.31	7.24	7.15	7.30	7.39	7.53	7.56	7.61	7.70	8.04	8.39
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	0.53	0.54	0.59	0.59	0.91	0.86	0.93	0.93	0.96	0.96	0.96	0.96	0.97	0.98	0.98	0.99	0.99	1.01	1.02
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	1.39	1.38	1.37	1.38	1.40	1.40	1.41	1.42	1.43	1.44	1.45	1.46	1.68
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	8.04	8.06	8.28	8.31	8.29	8.27	8.33	8.41	8.42	8.44	8.46	8.85	9.25
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	1.48	1.39	1.50	1.45	1.45	1.47	1.46	1.46	1.46	1.46	1.46	1.46	1.46
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	1.18	1.07	1.20	1.16	1.16	1.19	1.18	1.19	1.20	1.20	1.21	1.26	1.32
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																
U of K Student Population	23696	22461	22879	23297	23081	24132	24197	24288	24217	24378	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											
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																
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	1.60	1.57	1.65	1.60	1.61	1.62	1.61	1.61	1.61	1.61	1.61	1.61	1.61

Calendar Year	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	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	2.32	2.64	2.18	2.41	2.44	2.37	2.43	2.44	2.44	2.46	2.47	2.58	2.70
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	36.14	36.34	37.14	37.31	37.33	37.59	37.91	38.36	38.62	38.88	39.15	40.72	42.48
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%	11.90%	13.70%	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).....	6.04	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	4.88	5.77	6.45	6.48	6.49	6.53	6.59	6.66	6.71	6.75	6.80	7.07	7.38
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	39.69	41.02	42.11											
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	42.51	43.65	43.24	39.99	41.54	43.50	43.50	43.69	43.72	44.01	44.38	44.88	45.17	45.47	45.78	47.55	49.56
Maximum Day w/out Conservation (mgd)	59.74	63.47	61.71	57.78	59.16	62.25	61.34	65.44	67.76	70.17	71.97	73.14	73.05	67.86	70.43	70.55	70.93	71.46	71.70	72.36	73.15	74.17	74.83	75.51	76.21	79.51	82.58
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	61.18	66.37	56.04											
Conservation Impacts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-1.95	-0.31	-1.67	-0.55	-0.30	-0.53	-1.39	-2.15	-2.34	-2.52	-2.54	-2.56	-2.58	-2.59	-2.61	-2.60	-2.66	-2.73
Total Average Day Demand (mgd).....																	41.36	41.35	41.20	41.47	41.82	42.30	42.58	42.86	43.18	44.89	46.83
Max Day: 95% Exceedance (mgd).....	57.04	60.90	59.08	55.11	56.51	59.62	58.66	62.87	65.07	64.12	68.74	67.60	69.54	64.88	66.92	68.16	68.64	68.97	69.03	69.68	70.45	71.44	72.09	72.76	73.46	76.70	79.69
In Plant Usage (mgd)	1.617	2.37	1.91	1.77	1.36	1.40	1.42	1.55	1.59	1.64	1.66	1.71	1.69	1.56	1.62	1.70	1.70	1.71	1.71	1.72	1.74	1.76	1.77	1.78	1.79	1.86	1.94
Total Max Day Production (mgd)[95%excd]	59.087	57.26	65.82	49.49	59.88	57.82	48.64	61.04	66.66	65.77	70.41	69.31	71.23	66.44	68.55	69.86	70.34	70.68	70.74	71.40	72.19	73.20	73.86	74.53	75.25	78.56	81.63
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	38.30	38.52	39.37	39.55	39.57	39.85	40.19	40.66	40.93	41.21	41.50	43.16	45.03
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%	11.90%	13.70%	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	6.25	7.39	6.74	6.79	5.48	6.63	5.57	4.84	5.17	6.11	6.84	6.87	6.87	6.92	6.98	7.06	7.11	7.16	7.21	7.50	7.82
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	45.04	46.17	45.80	42.37	44.00	45.11	46.12	46.32	46.35	46.66	47.05	47.58	47.89	48.21	48.53	50.42	52.55
Maximum Day w/out Conservation (mgd)	63.46	67.43	65.56	61.39	62.85	66.13	65.16	69.51	71.96	74.31	76.39	77.50	77.52	72.05	74.75	73.08	75.14	75.69	75.93	76.62	77.45	78.52	79.21	79.92	80.65	84.13	87.39
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	61.18	66.37	56.04											
CONSERVATION IMPACTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-1.95	-0.31	-1.67	-0.55	-0.30	-0.53	-1.39	-2.15	-2.34	-2.52	-2.54	-2.56	-2.58	-2.59	-2.61	-2.60	-2.66	-2.73
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	42.07	43.48	43.72	43.97	43.98	43.83	44.12	44.49	45.00	45.30	45.60	45.93	47.76	49.82
6-mo Summer Avg. Day Dem.: 95% C. I. (mgd) w/out cons.		51	49	46	47	50	49	53	54	56	57	58	57	53	55	57	58	58	58	58	59	60	60	60	61	63	65
6-mo Summer Avg. Day Dem.: 99% C. I. (mgd) w/out cons.		52	50	47	48	51	50	54	55	57	58	59	59	54	56	58	59	59	59	60	60	61	61	61	62	64	67
6-mo Summer Avg. Day Dem.: 95% C. I. (mgd) w/ cons.		51	49	46	47	50	49	53	54	56	57	58	57	53	55	55	55	55	55	55	56	56	57	57	58	60	62
6-mo Summer Avg. Day Dem.: 99% C. I. (mgd) w/ cons.		52	50	47	48	51	50	54	55	55	57	57	58	54	56	56	56	56	56	57	57	58	58	58	59	61	63
MAX DAY: 95% EXCEEDANCE (mgd).....	60.46	64.56	62.63	58.42	59.90	63.20	62.18	66.65	68.98	69.37	73.08	72.82	74.03	68.88	71.18	71.55	72.85	73.21	73.27	73.94	74.75	75.79	76.47	77.17	77.90	81.32	84.51
IN PLANT USE(mgd)	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2	2	2	2	2	2	2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
TOTAL MAX DAY PRODUCTION (mgd)[95%excd]	56.49	65.51	49.32	60.12	58.02	48.82	61.09	70.58	71.37	75.08	74.82	76.03	70.88	73.18	73.55	74.95	75.41	75.47	76.14	76.95	77.99	78.67	79.37	80.10	83.52	86.71	

SURROUNDING COUNTIES--INDIVIDUAL CUSTOMER WATER DEMAND		1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2015	2020
WOODFORD COUNTY																												
Population		18884	19076	19900	19928	19955	20270	20585	20934	21283	21632	21988	22344	22701	23057	23413	23671	23929	24187	24445	24703	24960	25218	25476	25734	25992	27019	28045
No. of resid. connections		138	137	142	139	141	142	145	149	151	152	153	155	163	171	179	181	183	185	187	189	191	193	195	197	199	207	214
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	2.43	2.42	2.41	2.40	2.40	2.39	2.38	2.37	2.36	2.35	2.31	2.27
Population Served		386	384	399	387	389	385	387	391	389	385	384	387	404	420	437	440	443	446	449	452	455	458	461	464	467	477	487
Existing Customer Per capita use (GPD)		85.54	89.11	85.17	76.10	79.49	80.43	75.88	81.00	84.90	83.18	87.75	82.40	86.76	76.79	78.37	78.56	80.25	80.01	79.81	79.67	79.67	80.05	80.30	80.43	80.43	80.43	80.43
New Customer Per Capita Use (GPD)												78.97	74.16	78.09	69.11	70.54	70.70	72.23	72.01	71.83	71.71	71.70	72.04	72.27	72.39	72.39	72.39	72.39
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	0.04	0.04	0.04	0.04	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	28096	28389	28622	29558	29904	30250	30595	30941	31287	31633	31979	32324	32670	33016	34436	35856
No. of resid. connections		1055	1149	1287	1373	1446	1507	1571	1628	1716	1799	1926	2142	2362	2560	2770	2802	2835	2867	2900	2932	2964	2997	3029	3062	3094	3227	3360
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	2.48	2.47	2.45	2.44	2.43	2.42	2.41	2.39	2.38	2.37	2.32	2.27
Population Served		3060	3332	3565	3783	3962	4084	4210	4314	4496	4659	4950	5462	5976	6426	6897	6944	6991	7036	7081	7125	7168	7210	7252	7293	7333	7487	7628
Existing Customer Per Capita Use (GPD)		85.54	89.11	85.17	76.10	79.49	80.43	75.88	81.00	84.90	83.18	87.75	82.40	86.76	76.79	78.37	78.56	80.25	80.01	79.81	79.67	79.67	80.05	80.30	80.43	80.43	80.43	80.43
New Customer Per Capita Use (GPD)												78.97	74.16	78.09	69.11	70.54	70.70	72.23	72.01	71.83	71.71	71.70	72.04	72.27	72.39	72.39	72.39	72.39
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	0.43	0.44	0.51	0.48	0.52	0.53	0.54	0.54	0.55	0.55	0.55	0.56	0.56	0.57	0.57	0.58	0.59
BOURBON COUNTY																												
Population		19188	19088	18978	19277	19236	19316	19397	19396	19395	19394	19576	19758	19939	20121	20303	20434	20565	20696	20827	20958	21088	21219	21350	21481	21612	22144	22676
No. of resid. connections		394	391	394	407	409	419	427	433	441	477	486	506	538	575	645	649	653	657	662	666	670	674	678	682	687	703	720
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	2.42	2.41	2.40	2.39	2.39	2.38	2.37	2.36	2.35	2.34	2.31	2.28
Population Served		1064	1056	1076	1105	1104	1114	1117	1115	1117	1188	1204	1248	1320	1404	1567	1572	1576	1580	1584	1588	1592	1596	1599	1603	1607	1625	1642
Existing Customer Per capita use (GPD)		85.54	89.11	85.17	76.10	79.49	80.43	75.88	81.00	84.90	83.18	87.75	82.40	86.76	76.79	78.37	78.56	80.25	80.01	79.81	79.67	79.67	80.05	80.30	80.43	80.43	80.43	80.43
New Customer Per Capita Use (GPD)												78.97	74.16	78.09	69.11	70.54	70.70	72.23	72.01	71.83	71.71	71.70	72.04	72.27	72.39	72.39	72.39	72.39
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	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13
HARRISON COUNTY																												
Population		15722	15907	15887	16195	16248	16387	16526	16692	16857	17023	17200	17377	17554	17731	17908	18040	18172	18304	18436	18568	18699	18831	18963	19095	19227	19764	20300
No. of resid. connections		78	77	80	80	80	78	79	78	80	83	84	84	85	84	85	86	86	87	88	88	89	89	90	91	91	94	96
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	2.43	2.42	2.41	2.40	2.40	2.39	2.38	2.37	2.36	2.35	2.32	2.29
Population Served		211	208	217	216	215	207	207	201	204	208	210	208	210	206	207	208	209	210	210	211	212	212	213	214	214	218	221
Existing Customer Per capita use (GPD)		85.54	89.11	85.17	76.10	79.49	80.43	75.88	81.00	84.90	83.18	87.75	82.40	86.76	76.79	78.37	78.56	80.25	80.01	79.81	79.67	79.67	80.05	80.30	80.43	80.43	80.43	80.43
New Customer Per Capita Use (GPD)												78.97	74.16	78.09	69.11	70.54	70.70	72.23	72.01	71.83	71.71	71.70	72.04	72.27	72.39	72.39	72.39	72.39
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	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	30945	31158	31372	31585	31798	31946	32094	32242	32390	32539	32687	32835	32983	33131	33279	33772	34264
No. of residential connections											1109	1180	1205	1215	1298	1320	1326	1332	1338	1345	1351	1357	1363	1369	1375	1381	1402	1422
Persons per household											2.55	2.54	2.53	2.53	2.52	2.51	2.50	2.49	2.49	2.48	2.47	2.46	2.45	2.45	2.44	2.43	2.40	2.37
Population Served											3000	3053	3069	3268	3313	3318	3323	3327	3332	3336	3341	3345	3349	3353	3357	3365	3371	3371
Existing Customer Per capita use (GPD)		85.54	89.11	85.17	76.10	79.49	80.43	75.88	81.00	84.90	83.18	87.75	82.40	86.76	76.79	78.37	78.56	80.25	80.01	79.81	79.67	79.67	80.05	80.30	80.43	80.43	80.43	80.43
New Customer Per Capita Use (GPD)												78.97	74.16	78.09	69.11	70.54	70.70	72.23	72.01	71.83	71.71	71.70	72.04	72.27	72.39	72.39	72.39	72.39
CLARK CO. WATER DEMAND (in MGD)																0.24	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
INDIVIDUAL CUSTOMER																												
TOTAL WATER DEMAND OUTSIDE COUNTIES...		0.40	0.44	0.45	0.42	0.45	0.47	0.45	0.49	0.53	0.54	0.59	0.59	0.91	0.86	0.93	0.93	0.96	0.96	0.96	0.96	0.97	0.98	0.98	0.99	0.99	1.01	1.02

OUTSIDE COUNTIES--BULK SALES

WATER DEMAND	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2015	2020
MIDWAY																											
Woodford Co.population projections	18884	19076	19900	19928	19955	20270	20585	20934	21283	21632	21988	22344	22701	23057	23413	23671	23929	24187	24445	24703	24960	25218	25476	25734	25992	27018.5	28045
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	0.15	0.19	0.16	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.20
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	0.15	0.19	0.16	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.20
VERSAILLES																											
Woodford Co.population projections	18884	19076	19900	19928	19955	20270	20585	20934	21283	21632	21988.2	22344.4	22700.6	23056.8	23413	23670.9	23928.8	24186.7	24444.6	24702.5	24960.4	25218.3	25476.2	25734.1	25992	27018.5	28045
Versailles projected tot. avg usage													4.00	4.00	3.13				3.56						3.72	4.07	4.22
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	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	0.13	0.15	0.14	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.07	0.22
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	0.10	0.09	0.14	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.07	0.22
SPEARS DISTRICT																											
Jessamine Co.population projections	28911	29338	30610	30559	30508	31016	31524	32470	33417	34363	35105	35848	36590	37333	38075	38644	39212	39781	40349	40918	41487	42055	42624	43192	43761	46373	48984
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	0.20	0.26	0.22	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.26	0.28
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	0.26	0.22	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.26	0.28
SOUTH ELKHORN DISTRICT																											
Jessamine Co.population projections	28911	29338	30610	30559	30508	31016	31524	32470	33417	34363	35105.4	35847.8	36590.2	37332.6	38075	38643.6	39212.2	39780.8	40349.4	40918	41486.6	42055.2	42623.8	43192.4	43761	46372.5	48984
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	0.51	0.52	0.54	0.53	0.54	0.55	0.55	0.55	0.56	0.56	0.56	0.57	0.60	0.63
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	0.52	0.54	0.53	0.54	0.55	0.55	0.55	0.56	0.56	0.56	0.57	0.60	0.63
NORTH MIDDLETOWN																											
Bourbon Co. population projections	19188	19088	18978	19277	19236	19316	19397	19396	19395	19394	19575.8	19757.6	19939.4	20121.2	20303	20433.9	20564.8	20695.7	20826.6	20957.5	21088.4	21219.3	21350.2	21481.1	21612	22144	22676
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	0.13	0.14	0.20	0.16	0.17	0.18	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18
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	0.14	0.20	0.16	0.17	0.18	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18
GEORGETOWN MUNICIPAL WATER																											
Scott Co. population projections	22689	23501	22760	23313.5	23867	24135	24403	25360	26317	27274	27730.8	28096.2	28388.6	28622.5	29558	29903.8	30249.6	30595.4	30941.2	31287	31632.8	31978.6	32324.4	32670.2	33016	34436	35856
Average bulk consumption (mgd)												0.02	0.12	0.25	0.22	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	
GEORGETOWN WATER DEMAND (in MGD)												0.02	0.12	0.25	0.22	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	
Harrison County Water Association																											
Harrison County population projections	15722	15907	15887	16195	16248	16387	16526	16692	16857	17023	17200	17352	17500	17647	17795	17905.2	18015.4	18125.6	18235.8	18346	18456.2	18566.4	18676.6	18786.8	18625	18859	19145
Average bulk consumption (mgd)																0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
HARRISON COUNTY WATER DEMAND (MGD)																0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
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	1.39	1.38	1.37	1.38	1.40	1.40	1.41	1.42	1.43	1.44	1.45	1.46	1.68

CONSERVATION PROGRAM IMPACTS

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2015	2020
RESIDENTIAL RETROFIT PROGRAM SAVINGS PER HOUSEHOLD HOUSEHOLDS PARTICIPATING ANNUAL SAVINGS									22.40 300	22.40 1500	22.40 2000	22.40 2500	22.40 3000	22.40 3500	0	0	0	0	0	0	0	0	0	0	0	0	0
	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	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	0.01	0.04	0.09	0.14	0.21	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
RESIDENTIAL LANDSCAPE/TURF SCHEDULE SAVINGS PER HOUSEHOLD HOUSEHOLDS PARTICIPATING ANNUAL SAVINGS										3.80 500	3.80 3000	3.80 10000	3.80 12500	3.80 12500	3.80 12500												
	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	0.05	0.05	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	0.01	0.05	0.10	0.15	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
INTERIOR HOME CONSULTATION SAVINGS PER HOUSEHOLD HOUSEHOLDS PARTICIPATING ANNUAL SAVINGS																	23.76 200	23.76 200	23.76 200	23.76 200	23.76 200	23.76 200	23.76 200	23.76 200	23.76 200	23.76 200	23.76 200
	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	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	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.02	0.02	0.02
COMMERCIAL/INDUSTRIAL INTERNAL AUDIT SAVINGS PER COMMERCIAL UNIT UNITS PARTICIPATING ANNUAL SAVINGS																	523 200	523 200	523 200								
	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	0.10	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SAVINGS PER INDUSTRIAL UNIT UNITS PARTICIPATING ANNUAL SAVINGS																	70824 1	70824 1	70824 1								
	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	0.07	0.07	0.07	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	0.00	0.00	0.00	0.00	0.00	0.18	0.35	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53
INDUSTRIAL/UK EXTERIOR AUDIT UNIVERSITY OF KENTUCKY SAVINGS PER INDUSTRIAL UNIT UNITS PARTICIPATING 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	1127 2	1127 2	1127 2	1127 2	1127 2						
	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	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
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	0.05	0.91	1.48	1.49	1.49	1.50	1.51	1.53	1.54	1.55	1.56	1.63	1.70
TOTAL SAVINGS FROM CONSERVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	1.95	0.31	1.67	0.55	0.30	0.53	1.39	2.15	2.34	2.52	2.54	2.56	2.58	2.59	2.61	2.60	2.66	2.73

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	13.1023	13.0094
OUT CTY	1.39279	2.36551

MULTI	8.70121	7.30413	FROM AMY
SFR PER CAP USAGE	87.7467	79.6725	FROM AMY
MFR PER CAP USAGE	105.44	79.39	

SFR POPULATION	165193	192977
MFR POPULATION	82526	92000
PEOPLE/UNIT	2.64	2.52
EQU.RESID.CUSTOMERS	93833	113086

COMM & IND SAVINGS	0.15	0.44
GOVT AND UK SAVINGS	0.08	0.15
ESTIMATED APC SAVINGS, MGD		
HIGH	1.00	3.20
LOW	0.87	2.76
AVG.	0.94	2.98

TR	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 - 2001																	
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	482654	456121	402694	443378	569363	592481	642925	596440	611082	563831	544500	491504	6396973	4784936	13.10941	
Multi-Family	B	36417	37432	33379	35518	39098	44089	44935	47865	50422	50151	54563	53694	527563	394617.1	1.081143	
Garden Apt	C	20813	21416	19672	18167	26297	22387	32810	25345	28818	30063	31501	30434	307723	230176.8	0.630621	
High Rise	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Farms	F	3687	3340	3515	2694	4155	3446	4662	3606	3104	2565	3695	2976	41445	31000.86	0.084934	
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	1172	238	295	1323	4848	7074	13765	14110	13110	11803	6630	2068	76436	57174.13	0.156641	
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	1449	1032	775	725	560	619	693	878	114	0	0	0	6845	5120.06	0.014028	
TOTAL 100 CU FT		546192	519579	460330	501805	644321	670096	739790	688244	706650	658413	640889	580676	7356985			
1000 GALLONS		408551.6	388645.1	344326.8	375350.1	481952.1	501231.8	553362.9	514806.5	528574.2	492492.9	479385	434345.6		5503025	15.07678	
TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC
TOTAL COMMERCIAL (Class 2)																	
WATER USAGE BY APARTMENT CLASS - 2001																	
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	21	35	26	22	20	24	20	1	2	3	2	2	178	133.144	0.000365	
Multi-Family	B	3891	3966	3514	3902	3890	4155	3855	4342	3972	4164	4301	4272	48224	36071.55	0.098826	
Garden Apt	C	156261	147641	143361	148629	146224	165169	168195	162602	161859	160135	169058	148388	1877522	1404386	3.847634	
High Rise	D	838	832	785	831	864	895	928	928	1056	894	881	1018	10750	8041	0.02203	
Farms	F	40185	33873	27645	32434	34573	35766	39907	34354	37252	34179	33684	28935	412787	308764.7	0.845931	
Golf Course	G	915	294	254	704	13111	13797	21987	17086	15628	24051	5820	2801	116448	87103.1	0.238639	
Hospital	H	18501	16180	14986	16769	19020	24226	26590	24225	25684	15685	26884	20101	248851	186140.5	0.509974	
Industrial	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Laundries	L	8821	8929	8660	9798	8667	9566	8415	8137	8278	9142	8657	9345	106415	79598.42	0.218078	
Motel/Hotel	M	28209	27714	27799	34175	35494	38018	41472	41415	38309	35375	33708	25758	407446	304769.6	0.834985	
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	24874	22902	22668	26244	24407	29961	29785	29950	30300	28109	29983	24414	323597	242050.6	0.663152	
Lawn Sprinkler System	S	951	661	540	1378	8319	11382	16462	16947	15533	15543	9087	2236	99039	74081.17	0.202962	
University of Ky	U	1415	2573	2555	2770	3717	3624	4960	3669	4938	5239	5127	4178	44765	33484.22	0.091738	
Car Wash	W	5861	6718	4628	5022	6461	5429	5116	4848	4979	5016	5360	5163	64601	48321.55	0.132388	
Fire Service	X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other	Z	134964	136077	122984	130901	158829	187945	187673	187749	189573	168936	163928	155187	1924746	1439710	3.944411	
TOTAL 100 CU FT		425707	408395	380405	413579	463596	529957	555365	536253	537363	506471	496480	431798	5685369			
1000 GALLONS		318428.8	305479.5	284542.9	309357.1	346769.8	396407.8	415413	401117.2	401947.5	378840.3	371367	322984.9		4252656	11.65111	

TOTAL INDUSTRIAL (Class 3) WATER USAGE BY APARTMENT CLASS - 2001 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	88114	99473	90152	96688	96100	108513	109662	104908	114453	102780	98469	91372	1200684	898111.6	2.46058
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	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		88114	99473	90152	96688	96100	108513	109662	104908	114453	102780	98469	91372	1200684		
1000 GALLONS		65909.27	74405.8	67433.7	72322.62	71882.8	81167.72	82027.18	78471.18	85610.84	76879.44	73654.81	68346.26		898111.6	2.46058

TOPA	TOPA	TOPA	TOPA	TOPA	TOPA	TOPA	TOPA	TOPA	TOPA	TOPA	TOPA	TOPA	TOPA	TOPA	TOPA	TOPA
TOTAL OTHER PUBLIC AUTHORITY (Class 4) WATER USAGE BY APARTMENT CLASS - 2001 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	177	90	112	106	88	119	100	106	136	138	122	148	1442	1078.616	0.002955
Garden Apt	C	11096	11870	11757	11482	11528	11622	12109	12002	11686	12646	11624	11508	140930	105415.6	0.28881
High Rise	D	27403	21896	32067	31600	37077	40597	44048	44231	43966	41821	34390	35305	434401	324931.9	0.890225
Farms	F	2239	2430	2171	2130	2962	5369	4166	4471	3480	3201	2741	2659	38019	28438.21	0.077913
Golf Course	G	3847	1679	1546	1926	9664	8443	9851	16403	7226	10505	6406	3777	81273	60792.2	0.166554
Hospital	H	10667	7503	6555	6631	7292	9213	10145	11341	15812	9516	7014	6569	108258	80976.98	0.221855
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	136	64	5	42	65	74	91	98	85	159	79	45	943	705.364	0.001933
Lawn Sprinkler System	S	164	368	1934	482	1217	2017	1902	1568	1047	1307	529	234	12769	9551.212	0.026168
University of Ky	U	16726	10916	16902	18520	23094	22349	29065	30701	32336	33522	25921	25040	285092	213248.8	0.584243
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	45623	38599	47110	49784	53618	63114	61606	61829	69392	60195	56455	50116	657441	491765.9	1.347304
TOTAL 100 CU FT		118078	95415	120159	122703	146605	162917	173083	182750	185166	173010	145281	135401	1760568		
1000 GALLONS		88322.34	71370.42	89878.93	91781.84	109660.5	121861.9	129466.1	136697	138504.2	129411.5	108670.2	101279.9		1316905	3.607959
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 - 2001 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	0	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	0
High Rise	D	0	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	0
Golf Course	G	0	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	0
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	66676	56073	52213	43574	49187	55196	53929	63433	51430	58130	47268	50969	648078	484762.3	1.328116	
Hydrant Meter	P	0	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	0
Lawn Sprinkler System	S	0	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	0
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL 100 CU FT		66676	56073	52213	43574	49187	55196	53929	63433	51430	58130	47268	50969	648078			
1000 GALLONS		49873.65	41942.6	39055.32	32593.35	36791.88	41286.61	40338.89	47447.88	38469.64	43481.24	35356.46	38124.81		484762.3	1.328116	

TOTAL SUMMARY WATER USAGE BY APARTMENT CLASS - 2001 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	482675	456156	402720	443400	569383	592505	642945	596441	611084	563834	544502	491506	6397151	4785069	13.10978	
Multi-Family	B	40485	41488	37005	39526	43076	48363	48890	52313	54530	54453	58986	58114	577229	431767.3	1.182924	
Garden Apt	C	188170	180927	174790	178278	184049	199178	213114	199949	202363	202844	212183	190330	2326175	1739979	4.767065	
High Rise	D	28241	22728	32852	32431	37941	41492	44976	45159	45022	42715	35271	36323	445151	332972.9	0.912255	
Farms	F	46111	39643	33331	37258	41690	44581	48735	42431	43836	39945	40120	34570	492251	368203.7	1.008777	
Golf Course	G	4762	1973	1800	2630	22775	22240	31838	33489	22854	34556	12226	6578	197721	147895.3	0.405193	
Hospital	H	29168	23683	21541	23400	26312	33439	36735	35566	41496	25201	33898	26670	357109	267117.5	0.731829	
Industrial	I	88114	99473	90152	96688	96100	108513	109662	104908	114453	102780	98469	91372	1200684	898111.6	2.46058	
Laundries	L	8821	8929	8660	9798	8667	9566	8415	8137	8278	9142	8657	9345	106415	79598.42	0.218078	
Motel/Hotel	M	28209	27714	27799	34175	35494	38018	41472	41415	38309	35375	33708	25758	407446	304769.6	0.834985	
Other Water Authority	O	66676	56073	52213	43574	49187	55196	53929	63433	51430	58130	47268	50969	648078	484762.3	1.328116	
Hydrant Meter	P	49	62	138	148	252	234	249	279	445	131043	20279	1234	154412	115500.2	0.316439	
Restaurant	R	25010	22966	22673	26286	24472	30035	29876	30048	30385	28268	30062	24459	324540	242755.9	0.665085	
Lawn Sprinkler System	S	2287	1267	2769	3183	14384	20473	32129	32625	29690	28653	16246	4538	188244	140806.5	0.385771	
University of Ky	U	18141	13489	19457	21290	26811	25973	34025	34370	37274	38761	31048	29218	329857	246733	0.675981	
Car Wash	W	5861	6718	4628	5022	6461	5429	5116	4848	4979	5016	5360	5163	64601	48321.55	0.132388	
Fire Service	X	1288	178927	3503	31413	7694	11490	3863	12578	51141	8030	147558	6618	464103	347149	0.951093	
Other	Z	182036	175708	170869	181410	213007	251678	249972	250456	259079	229131	220383	205303	2589032	1936596	5.305742	
TOTAL 100 CU FT		1246104	1357924	1106900	1209910	1407755	1538403	1635941	1588445	1646648	1637877	1596224	1298068	17270199			
1000 GALLONS		932085.8	1015727	827961.2	905012.7	1053001	1150725	1223684	1188157	1231693	1225132	1193976	970954.9		12918109	35.39208	