

**APPENDIX R**

**WOOD CREEK WATER DISTRICT  
YIELD ANALYSIS FOR WOOD CREEK LAKE**

**Wood Creek Water District  
Water Analysis Results for Wood Creek Lake\*  
Laurel County, Kentucky**

<b>Stage-Area and Stage-Storage Data for Wood Creek Lake</b>		
<b>Stage (MSL)</b>	<b>Area (acres)</b>	<b>Storage (acre-feet)</b>
1,020 (normal pool)	680	24,400
1,010	535	17,400
1,000	400	13,000
990	285	9,400
980	240	6,900
970	160	4,800
960	125	3,400

<b>Water Treatment Plant Withdrawal (mgd)</b>	<b>Max. Recharge Period (years)</b>	<b>CRITICAL YEAR</b>					<b>AVERAGE YEAR</b>				
		<b>Storage Depleted (acre-feet)</b>	<b>Storage Remaining (acre-feet)</b>	<b>Low Pool Elev. (MSL)</b>	<b>Reservoir Fluctuation (feet)</b>	<b>Surface Area (acres)</b>	<b>Storage Depleted (acre-feet)</b>	<b>Storage Remaining (acre-feet)</b>	<b>Low Pool Elev. (MSL)</b>	<b>Reservoir Fluctuation (feet)</b>	<b>Surface Area (acres)</b>
4.0	1	2,783	21,617	1,017	3	637	939	23,461	1,019	1	667
6.0	1	4,377	20,023	1,015	5	604	1,746	22,654	1,018	2	655
8.0	1	6,114	18,286	1,012	8	560	2,690	21,710	1,017	3	639
10.0	2	7,978	16,422	1,008	12	506	3,835	20,565	1,016	4	616
12.0	3	9,994	14,406	1,003	17	444	5,274	19,126	1,013	7	582
14.0	3	13,287	11,113	995	25	341	6,843	17,557	1,010	10	540
16.0	4	18,560	5,840	974	46	168	8,692	15,708	1,006	14	484
18.0	10	24,254	146	903	117	20	12,179	12,221	998	22	376

\* The above analysis is based on historical stream flow data at the South Fork of the Kentucky River gauging station operated by U.S. Geological Survey. This gauging station was used since it was active during the 1930 drought and the drainage area is approximately the same as that of the Wood Creek Lake.