

Plan No. 9 10 11 12 13 14 15 16 17

PROJECT DATA

	SC, P(C)	SC, P(C)	SC, P(C)	SC, P(C)	SC, P(C)	SC, P(C)	SC, P(C)	SC, P(C)	SC, P(C)	SC, P(C)
Purpose in addition to flood control, water supply, water quality control, and recreation.....										
Elevations, mean sea level:.....										
Salem Church:										
Top of closed spillway gates.....	243	250.5	268	243	250.5	268	243.0	250.5	268	
Maximum conservation pool.....	230	240.0	260	230	240.0	260	230.0	240.0	260	
Minimum conservation pool.....	180	200.0	220	193	217.0	248	193.0	217.0	248	
Fredericksburg, crest of ungated spillway.....	75	76.5	80	98	96.5	93	109.5	104.0	102	
Storage at Salem Church, acre-feet:										
Flood control.....	256,000	256,000	256,000	256,000	256,000	256,000	256,000	256,000	256,000	
Low flow regulation and power.....	435,000	517,000	898,000	369,000	369,000	369,000	369,000	369,000	369,000	
Inactive.....	165,000	275,000	462,000	231,000	423,000	991,000	231,000	423,000	991,000	
Power at Salem Church:										
Installed capacity, kilowatt.....	84,000	89,000	142,000	150,000	150,000	150,000	150,000	200,000	200,000	
Average annual dependable capacity, kilowatt.....	56,500	71,000	121,600	141,000	138,900	148,000	180,000	189,000	196,500	
Average annual generation, million kilowatt-hours.....	141.0	152.5	206.8	141.0	237.2	264.5	262.0	282.5	301.0	

ECONOMIC DATA

Investment, \$1,000:										
Salem Church.....	\$63,326	\$70,683	\$98,672	\$78,646	\$79,560	\$101,582	\$78,065	\$84,481	\$107,497	
Fredericksburg.....	5,936	6,124	6,600	8,735	9,434	8,759	11,694	10,797	10,071	
Total.....	69,262	76,807	105,272	87,381	88,994	110,341	89,759	95,278	117,568	
Average annual charges, \$1,000:										
Interest.....	2,165	2,400	3,289	2,731	2,781	3,448	2,805	2,977	3,674	
Amortization.....	105	116	159	132	134	166	136	144	177	
Operation and maintenance.....	658	672	743	1,327	1,223	1,279	1,501	1,553	1,583	
Major replacements.....	139	143	175	221	197	194	215	208	226	
Land productivity loss.....	45	55	100	45	55	100	45	55	100	
Total.....	3,112	3,386	4,466	4,456	4,390	5,187	4,702	4,937	5,760	
Average annual benefits, \$1,000:										
Flood control.....	157	157	157	157	157	157	157	157	157	
Water supply.....	340	340	340	340	340	340	340	340	340	
Water quality control.....	607	607	607	607	607	607	607	607	607	
Recreation.....	2,500	2,990	3,570	2,650	3,100	3,630	2,650	3,100	3,630	
Salinity control.....	1,490	1,490	1,490	1,490	1,490	1,490	1,490	1,490	1,490	
Power.....	1,411	1,706	2,788	3,250	3,196	3,428	3,985	4,260	4,423	
Total.....	6,505	7,290	8,952	8,494	8,890	9,652	9,229	9,954	10,647	
Average annual net benefits, \$1,000.....	3,393	3,904	4,486	4,038	4,500	4,465	4,527	5,017	4,887	
Benefit/cost ratio.....	2.1	2.1	2.0	1.9	2.0	1.9	2.0	2.0	1.8	

1 No dam at Fredericksburg site.