

Stream	Location	Sub-Basins Above	Area (Sq.Mi.)	Total Impervious Area (%)	2-YR			10-YR			25-YR			100-YR		
					ICPR	Rural Q	Urban Q	ICPR	Rural Q	Urban Q	ICPR	Rural Q	Urban Q	ICPR	Rural Q	Urban Q
Church Creek	Above Village Green	N-E260	1.17	0	118	62	---	233	172	---	297	242	---	442	366	---
Church Creek	Below Village Green	N-E010	2.01	4.6	160	86	56	338	236	147	444	333	214	695	502	350
Church Creek	Dunwoody	N-D130	2.35	7.0	126	95	106	287	259	262	376	365	369	613	550	573
Church Creek	Hickory Farms	N-B160	3.63	13.0	302	126	318	507	336	711	612	473	950	907	708	1365
Church Creek	Bees Ferry	N-B010	4.14	13.2	327	137	358	544	363	794	643	511	1057	951	764	1513
Church Creek	Rail Road	N-A110	6.22	12.0	438	177	436	693	461	957	819	649	1274	1090	966	1824
Church Creek	SC-61	N-A030	8.47	18.4	550	215	934	874	553	1914	1055	779	2457	1389	1156	3333
Trib A	Bees Ferry	N-G010	1.37	5.1	89	68	48	134	189	126	155	266	184	196	402	300
Trib A	Rail Road	N-A140	2.07	9.8	123	88	146	181	241	348	209	339	480	276	511	721
Trib B	Hickory Farms	N-B180	1.39	23.2	192	68	316	273	190	690	315	268	896	392	405	1236
Trib B	Par 3 Culvert	N-C010	0.58	23.4	84	39	165	100	113	375	102	160	494	109	243	695
Trib C	Golf Course Pond	N-D020	0.26	24.2	69	24	95	92	71	223	104	100	297	166	154	424

Table 1 -- Results of Regression Equation Analysis

USING THE REGRESSION EQUATIONS FROM USGS REPORT 92-4040
 USING LOWER COASTAL PLAIN AS THE HYDROLOGIC AREA
 USING TR-55 TO COMPUTE PERCENT IMPERVIOUS BASED ON LANDUSE

Stream	Location	Sub-Basins Above	Area (Sq.Mi.)	Total Impervious Area (%)	2-YR		10-YR		25-YR		50-YR		100-YR		500-YR	
					Rural Q cfs	Urban Q cfs	Rural Q cfs	Urban Q cfs	Rural Q cfs	Urban Q cfs	Rural Q cfs	Urban Q cfs	Rural Q cfs	Urban Q cfs	Rural Q cfs	Urban Q cfs
Church Creek	Above Village Green	N-E260	1.16	0.0	62	0	172	0	242	0	300	0	366	0	615	0
Church Creek	Below Village Green	N-E010	2.01	4.6	87	56	237	148	334	215	412	276	502	351	818	513
Church Creek	Dunwoody	N-D130	2.35	7.0	96	106	260	262	366	369	452	462	550	574	887	792
Church Creek	Hickory Farms	N-B160	3.63	13.0	126	319	336	712	473	950	581	1143	708	1366	1113	1723
Church Creek	Bees Ferry	N-B010	4.14	13.2	137	359	363	795	511	1058	627	1269	764	1513	1192	1899
Church Creek	Rail Road	N-A110	6.22	12.0	177	436	461	958	650	1275	794	1529	967	1825	1472	2298
Church Creek	SC-61	N-A030	8.47	18.4	215	934	554	1915	780	2457	950	2868	1157	3334	1729	3942
Trib A	Bees Ferry	N-G010	1.37	5.1	68	48	189	127	267	184	331	236	403	300	671	437
Trib A	Rail Road	N-A140	2.07	9.8	89	147	241	349	340	480	420	591	511	721	831	955
Trib B	Hickory Farms	N-B180	1.39	23.2	69	317	191	690	269	896	333	1059	406	1236	676	1474
Trib B	Par 3 Culvert	N-C010	0.58	23.4	40	165	114	376	160	495	200	591	244	695	428	843
Trib C	Golf Course Pond	N-D020	0.26	24.2	24	95	72	224	101	298	127	359	155	425	285	522

ID	AREA	ACRES	Sq Mi	CURVE_NUM	IMP	Area * IMP	Accumulative Area per Stream	Accumulative (Area * IMP) per Stream	IMP per stream
B-G180	8820292.000	202.5	0.32	72	0.03	0.00949	0.316	0.00949	
B-G160	195205.813	4.5	0.01	79	0.24	0.00168	0.323	0.01117	
B-G150	1614289.375	37.1	0.06	79	0.05	0.00290	0.381	0.01407	
B-G140	249274.344	5.7	0.01	82	0.31	0.00277	0.390	0.01684	
B-G130	551946.563	12.7	0.02	83	0.30	0.00594	0.410	0.02278	
B-G120	339655.031	7.8	0.01	81	0.30	0.00366	0.422	0.02643	
B-G110	396944.125	9.1	0.01	81	0.29	0.00413	0.436	0.03056	
B-G100	13848709.000	317.9	0.50	74	0.01	0.00497	0.933	0.03553	
B-G090	309811.063	7.1	0.01	81	0.30	0.00333	0.944	0.03886	
B-G080	275301.438	6.3	0.01	81	0.30	0.00296	0.954	0.04183	
B-G070	142425.188	3.3	0.01	81	0.30	0.00153	0.959	0.04336	
B-G060	290999.375	6.7	0.01	80	0.28	0.00292	0.970	0.04628	
B-G050	3313718.000	76.1	0.12	77	0.01	0.00119	1.089	0.04747	
B-G020	7963621.000	182.8	0.29	77	0.08	0.02285	1.374	0.07032	0.051
B-F080	289650.000	6.6	0.01	73	0.01	0.00010	0.010	0.00010	
B-F060	1093604.875	25.1	0.04	63	0.22	0.00863	0.050	0.00873	
B-F040	228570.531	5.2	0.01	78	0.24	0.00197	0.058	0.01070	
B-F030	686432.500	15.8	0.02	75	0.19	0.00468	0.082	0.01538	
B-F010	1821549.625	41.8	0.07	80	0.27	0.01764	0.148	0.03302	0.223
B-E270	351757.500	8.1	0.01	81	0.07	0.00088	0.013	0.00088	
B-E260	32403794.000	743.9	1.16	77	0.00	0.00000	1.175	0.00088	
B-E252	2430287.500	55.8	0.09	79	0.00	0.00000	1.262	0.00088	
B-E251	2562394.250	58.8	0.09	79	0.01	0.00092	1.354	0.00180	
B-E250	293246.219	6.7	0.01	83	0.19	0.00200	1.365	0.00380	
B-E240	198269.906	4.6	0.01	86	0.30	0.00213	1.372	0.00593	
B-E231	166854.703	3.8	0.01	79	0.00	0.00000	1.378	0.00593	
B-E230	734343.125	16.9	0.03	86	0.30	0.00790	1.404	0.01384	
B-E220	291678.438	6.7	0.01	86	0.30	0.00314	1.414	0.01698	
B-E210	92990.977	2.1	0.00	86	0.30	0.00100	1.418	0.01798	
B-E200	239649.016	5.5	0.01	85	0.26	0.00224	1.426	0.02021	
B-E190	223308.594	5.1	0.01	86	0.30	0.00240	1.434	0.02261	
B-E180	140471.859	3.2	0.01	86	0.30	0.00151	1.439	0.02413	
B-E170	405188.938	9.3	0.01	86	0.29	0.00421	1.454	0.02834	
B-E160	172787.875	4.0	0.01	86	0.30	0.00186	1.460	0.03020	
B-E150	130114.719	3.0	0.00	86	0.30	0.00140	1.465	0.03160	
B-E140	234828.938	5.4	0.01	81	0.30	0.00253	1.473	0.03413	
B-E130	155732.281	3.6	0.01	85	0.30	0.00168	1.479	0.03580	
B-E120	190539.984	4.4	0.01	86	0.30	0.00205	1.486	0.03785	
B-E110	572973.563	13.2	0.02	86	0.30	0.00617	1.506	0.04402	
B-E100	802635.500	18.4	0.03	86	0.30	0.00864	1.535	0.05266	
B-E090	651379.875	15.0	0.02	86	0.30	0.00701	1.558	0.05967	
B-E080	330803.281	7.6	0.01	86	0.30	0.00356	1.570	0.06323	
B-E070	241246.656	5.5	0.01	86	0.30	0.00260	1.579	0.06582	
B-E060	186364.469	4.3	0.01	86	0.30	0.00201	1.586	0.06783	
B-E050	631987.563	14.5	0.02	86	0.30	0.00680	1.608	0.07463	
B-E040	918001.563	21.1	0.03	86	0.30	0.00988	1.641	0.08451	
B-E030	278457.781	6.4	0.01	85	0.27	0.00270	1.651	0.08720	
B-E020	234915.469	5.4	0.01	84	0.22	0.00185	1.660	0.08906	
B-E010	9733348.000	223.4	0.35	72	0.01	0.00349	2.009	0.09255	0.046
B-D220	511733.844	11.7	0.02	86	0.30	0.00551	0.018	0.00551	
B-D210	807784.188	18.5	0.03	86	0.30	0.00869	0.047	0.01420	
B-D190	248609.313	5.7	0.01	86	0.33	0.00294	0.056	0.01714	
B-D160	3328131.000	76.4	0.12	86	0.30	0.03581	0.176	0.05296	
B-D140	863923.250	19.8	0.03	84	0.23	0.00713	0.207	0.06008	
B-D132	2015678.125	46.3	0.07	80	0.06	0.00434	0.279	0.06442	
B-D131	1086790.375	24.9	0.04	63	0.02	0.00078	0.318	0.06520	
B-D130	680009.500	15.6	0.02	85	0.26	0.00634	0.342	0.07154	0.209
B-D110	1296479.875	29.8	0.05	84	0.25	0.01163	0.389	0.08317	
B-D080	297017.875	6.8	0.01	84	0.24	0.00256	0.399	0.08573	
B-D050	982610.750	22.6	0.04	86	0.37	0.01304	0.435	0.09877	
B-D030	2461898.250	56.5	0.09	86	0.32	0.02826	0.523	0.12703	
B-D020	1330415.250	30.5	0.05	81	0.15	0.00716	0.571	0.13418	
B-D010	1006426.250	23.1	0.04	76	0.04	0.00144	0.607	0.13563	0.224
B-C270	1556368.375	35.7	0.06	77	0.08	0.00447	0.056	0.00447	
B-C230	2090883.875	48.0	0.08	84	0.31	0.02325	0.131	0.02772	
B-C190	1022340.313	23.5	0.04	82	0.17	0.00623	0.167	0.03395	
B-C170	4408041.000	101.2	0.16	82	0.19	0.03004	0.326	0.06399	
B-C150	1571676.875	36.1	0.06	78	0.13	0.00733	0.382	0.07132	
B-C140	530190.313	12.2	0.02	85	0.25	0.00475	0.401	0.07608	
B-C130	1768436.125	40.6	0.06	84	0.29	0.01840	0.464	0.09447	
B-C120	2644876.000	60.7	0.09	84	0.38	0.03605	0.559	0.13052	
B-C090	3097701.500	71.1	0.11	82	0.24	0.02667	0.670	0.15719	
B-C080	584948.500	13.4	0.02	77	0.07	0.00147	0.691	0.15866	
B-C050	330826.625	7.6	0.01	80	0.20	0.00237	0.703	0.16103	
B-C010	1200215.125	27.6	0.04	83	0.20	0.00861	0.746	0.16964	0.227
B-B230	1096751.750	25.2	0.04	89	0.44	0.01731	0.039	0.01731	
B-B170	722032.000	16.6	0.03	87	0.35	0.00906	0.065	0.02637	
B-B160	1650213.500	37.9	0.06	84	0.23	0.01361	0.124	0.03999	0.321
B-B140	3930646.000	90.2	0.14	79	0.10	0.01410	0.265	0.05409	
B-B100	1147253.250	26.3	0.04	78	0.12	0.00494	0.307	0.05903	
B-B060	4685022.500	107.6	0.17	76	0.05	0.00840	0.475	0.06743	
B-B040	394320.906	9.1	0.01	88	0.44	0.00622	0.489	0.07365	
B-B020	4066473.000	93.4	0.15	85	0.28	0.04084	0.635	0.11449	0.180
B-A140	15180202.000	348.5	0.54	79	0.14	0.07623	0.545	0.07623	
B-A120	4326200.000	99.3	0.16	83	0.36	0.05587	0.700	0.13210	0.189
B-A100	2263352.500	52.0	0.08	82	0.42	0.03410	0.781	0.16620	
B-A060	2734957.250	62.8	0.10	75	0.19	0.01864	0.879	0.18484	
B-A041	16918212.000	388.4	0.61	83	0.35	0.21240	1.486	0.39724	
B-A040	17537844.000	402.6	0.63	82	0.32	0.20131	2.115	0.59854	
B-A030	23380618.000	536.7	0.84	83	0.41	0.34385	2.954	0.94239	0.319

Stream	Location	Node	Area	IMP
Church Creek	Above Villiage Green	N-E260	1.162	0.000
Church Creek	Below Villiage Green	N-E010	2.009	0.046
Church Creek	Dunwoody	N-D130	2.351	0.070
Church Creek	Hickory Farms	N-B160	3.634	0.130
Church Creek	Bees Ferry	N-B010	4.144	0.132
Church Creek	Rail Road	N-A110	6.218	0.120
Church Creek	SC-61	N-A030	8.472	0.184
Trib A	Bees Ferry	N-G010	1.374	0.051
Trib A	Rail Road	N-A140	2.074	0.098
Trib B	Hickory Farms	N-B180	1.393	0.232
Trib B	Par 3 Culvert	N-C010	0.579	0.234
Trib C	Golf Course Pond	N-D020	0.265	0.242