

Figure 2: Hydraulic geometry relationships of (a) bankfull cross-sectional area, (b) discharge, (c) width, and (d) depth compared to watershed area for streams in the Coastal Plain region of North Carolina

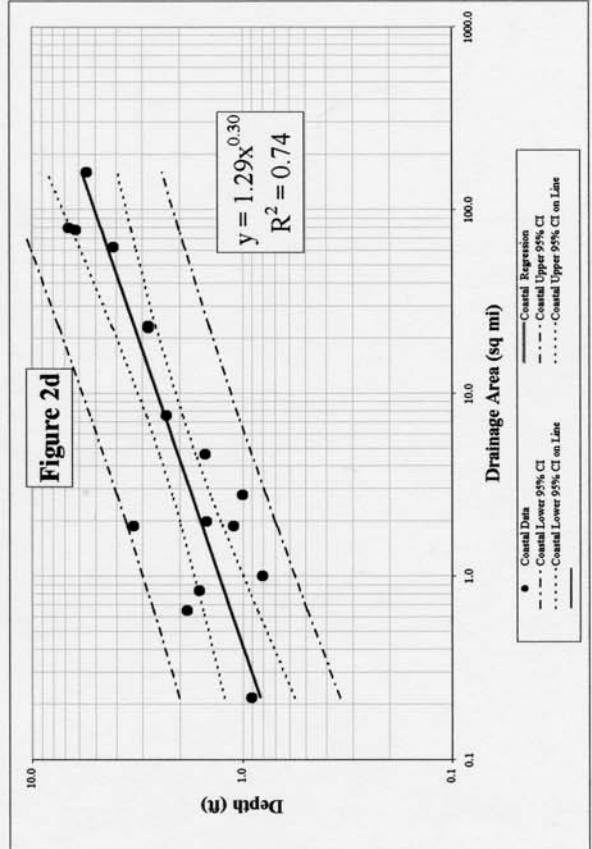
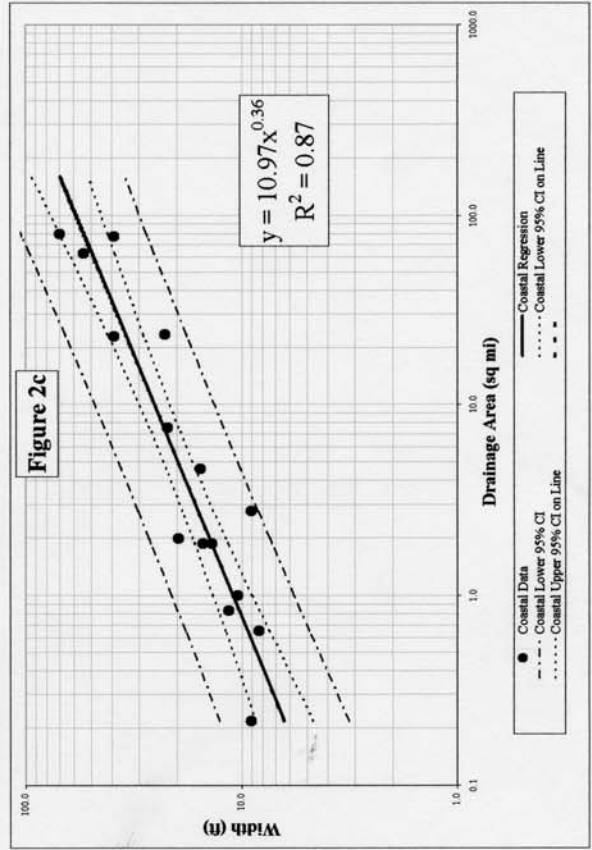
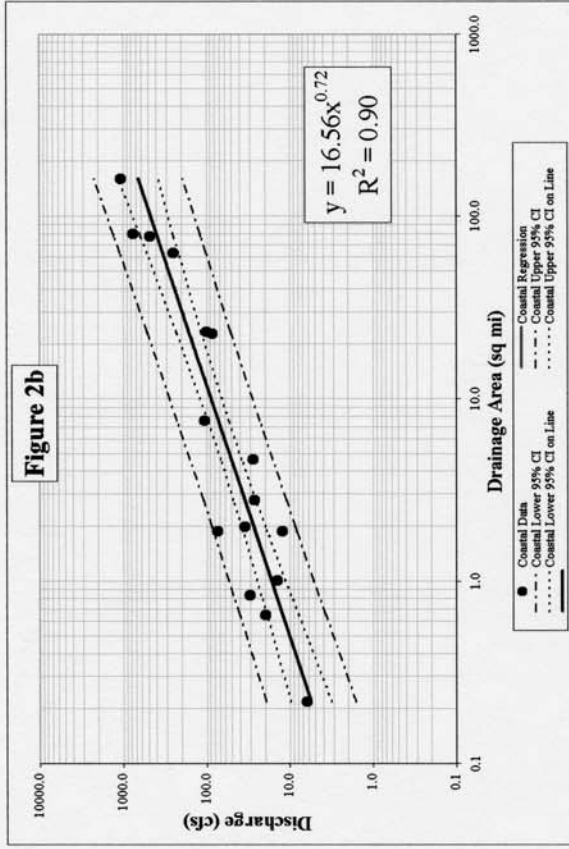
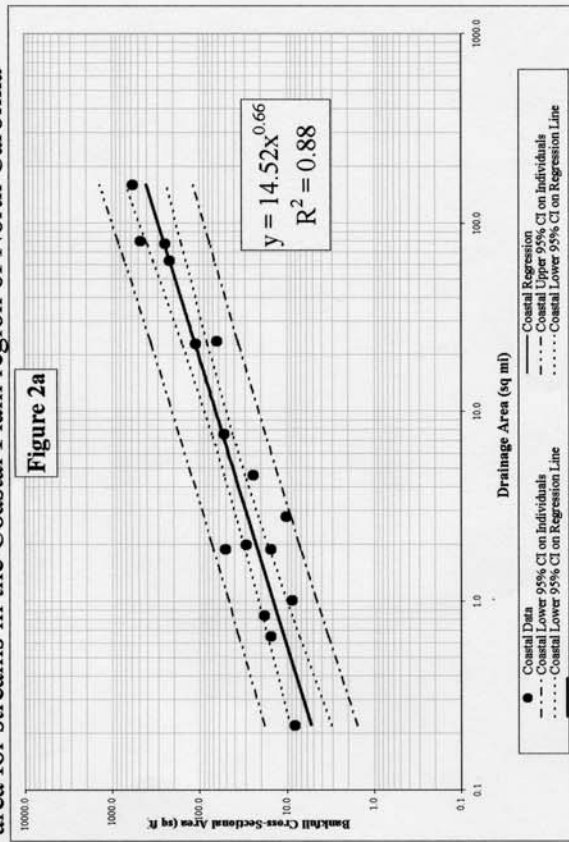


Table 1: Landcover Percentages for Coastal Plain Stream Drainage Areas

Stream Name	Developed	Cultivated	Herbaceous Cover & Shrublands	Forrest Land	Water Bodies	Barren Land	Indeterminate Landcover
UT of Salmon Creek #1	0.00%	26.55%	0.31%	73.14%	0.00%	0.00%	0.00%
Lee Swamp	0.00%	50.24%	16.06%	33.08%	0.62%	0.00%	0.00%
Panther Creek	0.00%	61.91%	14.42%	22.47%	1.21%	0.00%	0.00%
Johannah Creek	0.00%	38.57%	10.65%	50.78%	0.00%	0.00%	0.00%
Pettiford Creek	0.75%	47.92%	6.09%	44.70%	0.53%	0.00%	0.00%
Moccasin Run	0.00%	0.00%	2.79%	97.21%	0.00%	0.00%	0.00%
Little Doe Creek	3.25%	21.12%	19.90%	55.72%	0.00%	0.00%	0.00%
UT of Salmon Creek #2	0.00%	8.56%	16.29%	75.15%	0.00%	0.00%	0.00%
Batarora Creek	0.00%	1.58%	4.73%	93.62%	0.08%	0.00%	0.00%
Flat Creek	0.46%	0.00%	16.17%	78.36%	0.00%	5.01%	0.00%
Van Swamp	0.27%	75.17%	4.37%	20.17%	0.02%	0.00%	0.00%
Hitchcock Creek	0.30%	6.64%	10.39%	81.94%	0.61%	0.13%	0.00%
Ahoskie	1.03%	24.99%	15.17%	58.61%	0.20%	0.00%	0.00%
Conetoe Creek	0.70%	40.50%	18.60%	40.16%	0.04%	0.00%	0.00%
Nahunta Creek	0.20%	55.43%	12.82%	31.25%	0.28%	0.00%	0.00%
Contentnea Creek	1.47%	25.87%	21.53%	49.45%	1.68%	0.00%	0.00%

Table 2. Hydraulic geometry and survey summary for Coastal Plain stream reaches.

Stream Name	Gage Number	Drainage Area (sq mi)	Bkfl Cross-Sectional Area (sq ft)	Discharge (cfs)	Width (ft)	Depth (ft)	Return Interval	Stream Type (Rosgen)	County	Data Collected By	Slope %
UT of Salmon Creek #1	reference reach	0.22	8.1	6.3	9.0	0.9		E	Bertie	NCSU	0.08
Lee Swamp	reference reach	0.66	15.2	19.4	8.3	1.8		E5	Wilson	NCSU	0.284
Panther Creek	reference reach	0.84	17.9	29.9	11.5	1.6		E5	Lenior	NCSU	0.314
Johannah Creek	reference reach	1.0	8.6	14.2	10.4	0.8		C5	Johnston	NCSU	0.482
Pettiford Creek	reference reach	1.9	15.1	12.3	13.7	1.1		E5	Carteret	NCSU	0.125
Moccasin Run	0209096970	1.9	49.7	72.9	15.1	3.3	1.02	E6	Wayne	NCSU	0.038
Little Doe Creek	reference reach	2.0	29.0	34.5	19.6	1.5		C5	Brunswick	NCSU	0.159
UT of Salmon Creek #2	reference reach	2.8	10.1	26.6	9.0	1.0		E5	Bertie	NCSU	0.585
Batarora Creek	reference reach	4.7	23.9	27.4	15.5	1.5		E5	Brunswick	NCSU	0.181
Flat Creek	02102908	7.6	51.4	105	22.0	2.3	1.25	E	Hoke	NCSU	0.735
Van Swamp	02084557	23.0	109.6	85	39.0	2.8	1	F	Washington	NCSU	0.150
Hitchcock Creek	reference reach	23.6	62.7	100	22.7	2.8		E5	Richmond	NCSU	0.280
Ahoskie	2053500	63.3	218.3	245	53.8	4.1	1	F6	Hertford	NCSU	0.005
Conetoe Creek	02083800	78.1	243.0	472	39.0	6.2	1.2	E	Pitt	NRCS	0.067
Nahunta Creek	2091000	80.4	468.6	746	69.5	6.7	1.2	E5	Greene	NCSU	0.1
Contentnea Creek	2090380	161.0	569.0	1052	103.0	5.5	1.2	C	Wilson	NRCS	