

Watershed Summary Information

Accounting Unit Name:	Lower Pee Dee
State(s):	SC NC
Political Boundaries:	Chesterfield, Florence, Marlboro, Darlington, Anson, Richmond, Marion, Dillon, Georgetown, Horry, Williamsburg, Scotland
Major Waterways:	Pee Dee R Jeffries Cr Thompson Cr Black Cr L Robertson
Number of Stations in Watershed:	Tier1 - 11 Tier2 - 20 Tier3 - 3

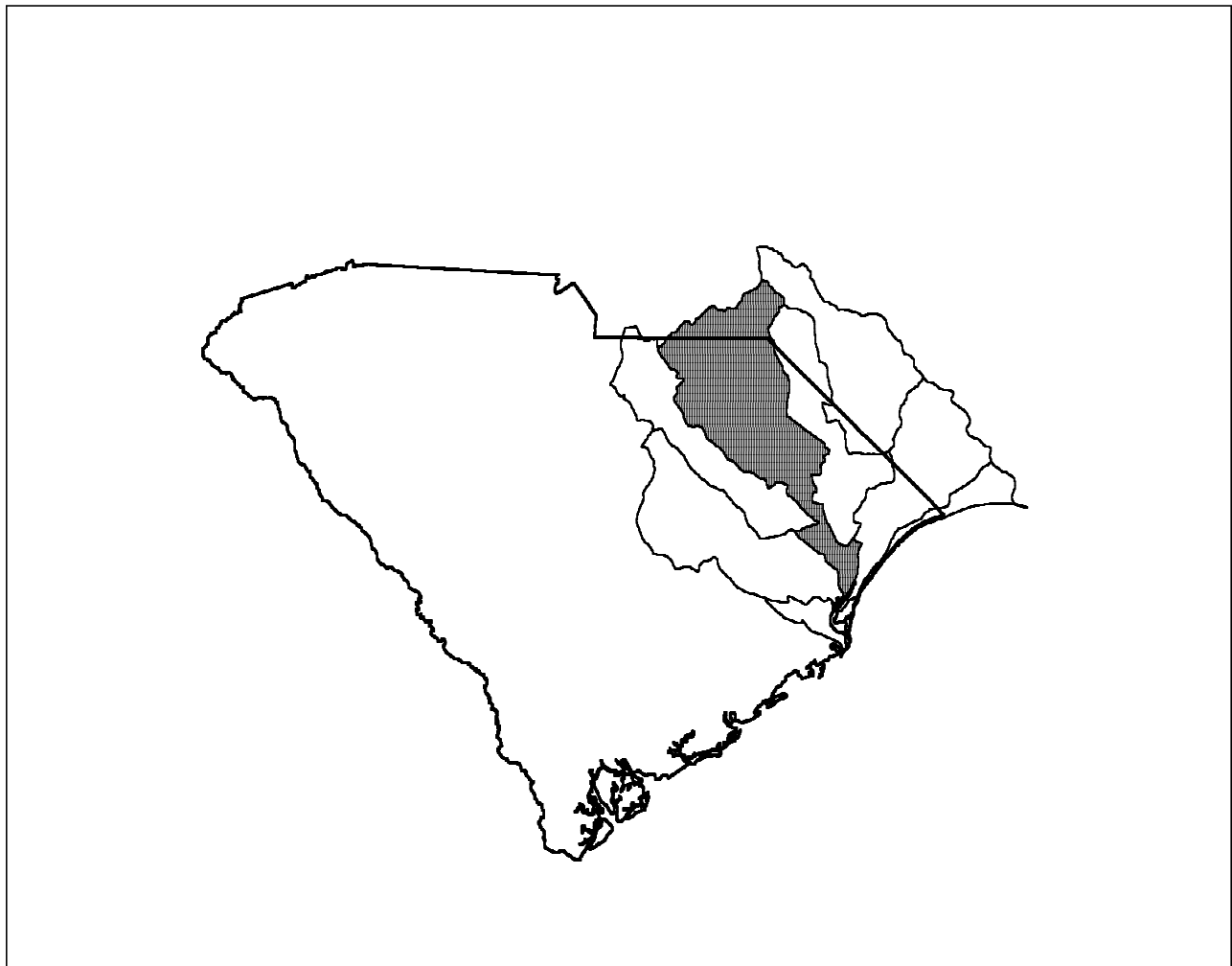


Figure 27. Watershed Location Map



Figure 28. Major Waterways and Location of Sampling Stations

Data Source(s) Used in Evaluation

Source: **ODES** Agency: **NC**
 Monitoring Program: **North Carolina**
 Num. of Stations: 3 Date Range: 1980-87

Source: **STORET** Agency: **11BIOACC**
 Monitoring Program: **USEPA National Bioaccumulation Study**
 Num. of Stations: 1 Date Range: 1987

Source: **STORET** Agency: **112WRD**
 Monitoring Program: **US Geological Survey Data**
 Num. of Stations: 1 Date Range: 1980-82

Source: **STORET** Agency: **21NC01WQ**
 Monitoring Program: **N.Carolina Dept of Natural Resources And Community Developmnt Data**
 Num. of Stations: 5 Date Range: 1980-92

Source: **STORET** Agency: **21SC60WQ**
 Monitoring Program: **SC Dept of Health & Environmental Control Biostoret Data**
 Num. of Stations: 24 Date Range: 1980-93

Chemicals Responsible for Sampling Station Classification as Tier 1 or Tier 2

Classifying Parameter	Number of Stations							
	All Parameters				Aquatic Life		Human Health	
	Total	T.1&2	Tier1	Tier2	Tier1	Tier2	Tier1	Tier2
DDT	28	21	5	16	5	16	.	4
Mercury	32	17	1	16	1	15	.	2
Lead	31	12	.	12	.	8	.	6
Copper	31	9	.	9	.	9	.	.
Polychlorinated biphenyls	25	8	7	1	2	1	5	3
Cadmium	30	6	.	6	.	6	.	.
BHC	27	5	1	4	1	2	.	3
Chlordane	17	5	.	5	.	5	.	4
Nickel	29	4	.	4	.	4	.	.
Toxaphene	24	3	.	3	.	1	.	3
Zinc	30	3	.	3	.	3	.	.
Dioxins	2	2	2	.	.	.	2	.
Arsenic	5	1	.	1	.	1	.	.
Diazinon/Spectracide	21	1	.	1	.	1	.	.
Methylnaphthalene, 2-	3	1	.	1	.	1	.	.

Sediment Chemistry Data: Chemical Summary

Sediment Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Acenaphthene	16	0.00	0.00	0	.	.
Acenaphthylene	16	0.00	0.00	0	.	.
Aldrin	145	0.00	0.00	0	.	.
Anthracene	16	0.00	0.00	0	.	.
Arsenic	12	3025.00	2400.00	6	7700.00	4800.00
Benzene	15	0.00	0.00	0	.	.
Benzo(a)anthracene	16	0.00	0.00	0	.	.
Benzo(a)pyrene	16	0.00	0.00	0	.	.
Benzo(b)fluoranthene	16	0.00	0.00	0	.	.
Benzo(ghi)perylene	16	0.00	0.00	0	.	.
Benzo(k)fluoranthene	16	0.00	0.00	0	.	.
Benzoic acid	16	0.00	0.00	0	.	.
Benzyl alcohol	16	0.00	0.00	0	.	.

Sediment Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Bis(2-ethylhexyl)phthalate	16	0.00	0.00	0	.	.
Bromophenyl phenyl ether, 4-	16	0.00	0.00	0	.	.
Butyl benzyl phthalate	15	0.00	0.00	0	.	.
BHC	307	0.07	0.00	3	14.90	0.60
Cadmium	159	70.06	0.00	14	1400.00	270.00
Chlordane	77	1.18	0.00	9	22.40	3.17
Chlorobenzene	12	0.00	0.00	0	.	.
Chromium	159	7798.11	4600.00	99	43000.00	1000.00
Chrysene	16	0.00	0.00	0	.	.
Copper	159	17239.62	6500.00	114	340000.0	1200.00
Cresol, o	16	0.00	0.00	0	.	.
Cresol, p-	16	0.00	0.00	0	.	.
Di-n-butyl phthalate	16	0.00	0.00	0	.	.
Di-n-octyl phthalate	16	0.00	0.00	0	.	.
Diazinon/Spectracide	94	0.16	0.00	1	14.70	14.70
Dibenzo(a,h)anthracene	16	0.00	0.00	0	.	.
Dibenzofuran	16	0.00	0.00	0	.	.
Dibromochloromethane	15	0.00	0.00	0	.	.
Dichlorobenzene, 1,2-	20	0.00	0.00	0	.	.
Dichlorobenzene, 1,3-	20	0.00	0.00	0	.	.
Dichlorobenzene, 1,4-	20	0.00	0.00	0	.	.
Dichloroethane 1,1-	14	0.00	0.00	0	.	.
Dichloroethane 1,2-	14	0.00	0.00	0	.	.
Dichloroethene, trans-1,2-	14	0.00	0.00	0	.	.
Dichloromethane	14	0.00	0.00	0	.	.
Dichloropropane, 1,2-	14	0.00	0.00	0	.	.
Dieldrin	145	0.00	0.00	1	0.10	0.10
Diethyl phthalate	16	0.00	0.00	0	.	.
Dimethyl phthalate	16	0.00	0.00	0	.	.
Dimethylphenol, 2,4-	16	0.00	0.00	0	.	.
DDT	812	2.64	0.00	114	1070.00	0.20
Endosulfan mixed isomers	2	0.00	0.00	0	.	.
Endosulfan, alpha-	65	0.00	0.00	0	.	.
Endosulfan, beta-	66	0.00	0.00	0	.	.
Endrin	144	0.22	0.00	2	26.40	4.94
Ethion/Bladen	94	0.00	0.00	0	.	.
Ethylbenzene	14	0.00	0.00	0	.	.
Fluoranthene	16	0.00	0.00	0	.	.
Fluorene	16	0.00	0.00	0	.	.
Heptachlor	144	0.00	0.00	0	.	.
Heptachlor epoxide	144	0.00	0.00	0	.	.
Hexachlorobenzene	62	0.18	0.00	1	11.10	11.10
Hexachlorobutadiene	16	0.00	0.00	0	.	.
Hexachloroethane	15	0.00	0.00	0	.	.

Sediment Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Indeno(1,2,3-cd)pyrene	16	0.00	0.00	0	.	.
Isophorone	16	0.00	0.00	0	.	.
Lead	158	17533.54	9700.00	114	160000.0	1700.00
Malathion	94	0.00	0.00	0	.	.
Mercury	158	65.63	0.00	30	2200.00	20.00
Methoxychlor	138	0.00	0.00	0	.	.
Methylnaphthalene, 2-	16	35.81	0.00	1	573.00	573.00
Mirex/Dechlorane	68	0.00	0.00	0	.	.
Naphthalene	16	0.00	0.00	0	.	.
Nickel	158	3668.35	0.00	65	23000.00	2000.00
Nitrosodiphenylamine, N-	16	0.00	0.00	0	.	.
Pentachlorophenol	16	0.00	0.00	0	.	.
Phenanthrene	15	0.00	0.00	0	.	.
Phenol	16	0.00	0.00	0	.	.
Polychlorinated biphenyls	528	10.02	0.00	13	2643.00	10.00
Pyrene	16	0.00	0.00	0	.	.
Silver	7	0.00	0.00	0	.	.
Tetrachloroethane, 1,1,2,2-	14	0.00	0.00	0	.	.
Tetrachloroethene	14	0.00	0.00	0	.	.
Tetrachloromethane	13	0.00	0.00	0	.	.
Toluene	14	0.00	0.00	0	.	.
Toxaphene	144	49.39	0.00	3	7030.00	20.70
Tribromomethane/Bromoform	15	0.00	0.00	0	.	.
Trichlorobenzene, 1,2,4-	16	0.00	0.00	0	.	.
Trichloroethane, 1,1,1-	14	0.00	0.00	0	.	.
Trichloroethane, 1,1,2-	14	0.00	0.00	0	.	.
Trichloroethene	14	1.43	0.00	1	20.00	20.00
Trichlorofluoromethane	14	0.00	0.00	0	.	.
Trichloromethane/Chloroform	15	0.00	0.00	0	.	.
Zinc	157	103754.1	20000.00	137	11000000	1400.00

Tissue Residue Data: Chemical Summary

Tissue Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Aldrin	31	0.00	0.00	0	.	.
Arsenic	19	0.00	0.00	0	.	.
Biphenyl	2	0.00	0.00	0	.	.
BHC	72	2.60	0.00	10	60.00	0.00
Cadmium	70	45.56	0.00	9	1200.00	110.00
Chlordane	42	4.39	0.00	14	30.60	0.00
Chlorpyrifos/Dursban	1	0.00	0.00	0	.	.
Chromium	69	183.62	0.00	12	2300.00	280.00

Tissue Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Copper	99	568.28	130.00	83	8600.00	0.00
Diazinon/Spectracide	6	0.00	0.00	0	.	.
Dicofol/Kelthane	1	0.00	0.00	0	.	.
Dieldrin	33	0.29	0.00	2	4.76	4.76
Dioxins	3	0.00	0.00	3	0.01	0.00
DDT	155	22.59	0.00	81	208.70	0.00
Endosulfan, alpha-	2	0.00	0.00	0	.	.
Endosulfan, beta-	2	0.00	0.00	0	.	.
Endrin	33	0.94	0.00	3	21.40	4.73
Ethion/Bladen	6	0.00	0.00	0	.	.
Heptachlor	19	0.00	0.00	0	.	.
Heptachlor epoxide	19	0.00	0.00	0	.	.
Hexachlorobenzene	32	0.00	0.00	0	.	.
Hexachlorobutadiene	1	0.00	0.00	0	.	.
Isopropalin	1	0.00	0.00	0	.	.
Lead	70	688.57	0.00	22	3200.00	1400.00
Malathion	6	0.00	0.00	0	.	.
Manganese	1	0.00	0.00	0	.	.
Mercury	100	244.50	80.00	76	2050.00	20.00
Methoxychlor	28	0.00	0.00	0	.	.
Mirex/Dechlorane	32	0.00	0.00	0	.	.
Nickel	64	295.47	0.00	12	2900.00	510.00
Parathion ethyl	6	0.00	0.00	0	.	.
Pentachlorobenzene	1	0.00	0.00	0	.	.
Pentachloronitrobenzene/Quin	1	0.00	0.00	0	.	.
Polychlorinated biphenyls	47	207.69	0.00	22	980.00	84.00
Tetrachlorobenzene, 1,2,4,5-	1	0.00	0.00	0	.	.
Tin	5	8800.00	0.00	2	24000.00	20000.00
Toxaphene	27	0.00	0.00	0	.	.
Trichlorobenzene, 1,2,4-	2	8.52	8.52	2	8.52	8.52
Trifluralin/Treflan	1	0.00	0.00	0	.	.
Zinc	100	16040.00	11000.00	100	120000.0	2800.00