FALL 1998 FISH TISSUE DATA
ROANOKE (STAUNTON) RIVER PCB PROJECT

SORTED BY SPECIES

Concentrations in parts per billion

Station	Specimen name	No. of fish analyzed	Length (cm)	% water	% fat (lipid)	Total PCB	Total chlordane *	Total DDT *	Total polybromo diphenyl ether *
REDBREAST SUNFISH									
Leesville Tail Race	redbreast sunfish	10	16 - 19.5	78.3	3.68	1.48	0.1	0.75	0.21
Altavista	redbreast sunfish	5	14 - 19	78.3	3.81	8.61	0.1	0.41	0.26
Long Island	redbreast sunfish	13	14.5 - 18.5	78.2	5.91	23.7	0.11	0.48	1.14
Brookneal	redbreast sunfish	4	13.5 - 17	78.9	4.14	64.1	0.28	1.21	0
BLUEGILL									
Leesville Tail Race	bluegill	5	16 - 18	78.7	3.94	14.9	0.48	0.9	0.9
Altavista	bluegill	5	17 - 19	78.2	4.19	32.4	0.51	1	0.43
Long Island	bluegill	5	13.5 - 18.5	77.4	14.8	13.5	0.08	0.38	0.86
Brookneal	bluegill	10	12 - 16.5	79.6	3.05	20.4	0.12	0.8	0.39
Clover	bluegill	9	15 - 18	79.0	2.39	51.5	1.14	3.62	1.86
SPOTTED BASS, SMALL SIZE									
Brookneal	spotted bass, small size	5	18 - 23	79.2	3.48	75.5	0.46	3.32	2.04

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SPOTTED BASS, MEDIUM SIZE									
Brookneal	spotted bass, medium size	3	20.5 - 24.5	78.5	2.82	59.9	0.3	1.48	1.07
Clover	spotted bass, medium size	10	21 - 28	75.9	2.36	101	1.95	5.76	3.88
SPOTTED BASS, LARGE SIZE									
Altavista	spotted bass, large size	5	27 - 31.5	79.0	3.67	31.9	0.22	0.73	2.21
Long Island	spotted bass, large size	10	26 - 41	74.8	3.05	39.5		0.73	0.82
Brookneal	spotted bass, large size	6	25.5 - 32	78.4	3.37	52.6	0.37	2.57	1.54
Clover	spotted bass, large size SET A	5	35 - 39	76.1	3.03	92.2	7.23	21.96	10.48
Clover	spotted bass, large size SET B	5	29 - 33.5	78.5	3.19	157	1.48	10.25	12.83

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Concentrations in parts per billion

Station	Specimen name	No. of fish analyzed	Length (cm)	% water	% fat (lipid)	Total PCB	Total chlordane *	Total DDT *	Total polybromo diphenyl ether *
SMALLMOUTH BASS, SMALL SIZE									
Brookneal	smallmouth bass, small size	5	17.5 - 20.5	77.7	4.20	82	0.42	2.51	1.27
SMALLMOUTH BASS, MEDIUM SIZE									
Altavista	smallmouth bass, medium size	5	23 - 29	77.1	4.43	99	0.71	2.89	2.34
Brookneal	smallmouth bass, medium size	6	22 - 26.7	78.3	3.83	128	0.92	5.1	3.55
SMALLMOUTH BASS, LARGE SIZE									
Leesville Tail Race	smallmouth bass, large size	3	39 - 43	76.5	4.28	14.4	0.52	2.5	1.28
Altavista	smallmouth bass, large size	6	32 - 38.5	77.2	4.11	39.6	0.36	1.74	0.62
Long Island	smallmouth bass, large size	5	36 - 48.5	69.4	4.02	741	3.99	10.74	7.77

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Station	Specimen name	No. of fish analyzed	Length (cm)	% water	% fat (lipid)	Total PCB	Total chlordane *	Total DDT *	Total polybromo diphenyl ether *
SMALLMOUTH BASS, X-LARGE SIZE									
Altavista	smallmouth bass, X-large size	3	42 - 49	77.1	5.12	77.7	0.56	3.9	2.87
Brookneal	smallmouth bass, X-large size	1	51.2 - 51.2	76.9	4.19	162	1.47	7.96	6.72
WALLEYE									
Altavista	walleye	3	32.4 - 45.1	79.5	2.81	349	5.27	7.34	10.06
Kerr Reservoir	walleye	8	42.5 - 56	67.3	14.7	280	24.96	60.19	42.11
WHITE PERCH									
Long Island	white perch	4	19.5 - 21.5	77.8	5.83	149	0.83	4.57	5.15
Kerr Reservoir	white perch, small size	4	16.5 - 17.5	79.8	2.93	8.04	0.17	2.76	1.07
Kerr Reservoir	white perch, medium size	7	20.5 - 24.5	79.1	3.93	47.1	2.03	10.93	3.99
Kerr Reservoir	white perch, large size	5	25 - 30.5	78.0	6.49	76.6	1.82	11.17	9.57

FALL 1998 FISH TISSUE DATA
ROANOKE (STAUNTON) RIVER PCB PROJECT

SORTED BY SPECIES

Concentrations in parts per billion

Station	Specimen name	No. of fish analyzed	Length (cm)	% water	% fat (lipid)	Total PCB	Total chlordane *	Total DDT *	Total polybromo diphenyl ether *
BLACK CRAPPIE									
Kerr Reservoir	black crappie, small size	6	19 - 30	79.7	2.82	6.72	0.15	0.78	0.79
Kerr Reservoir	black crappie, large size	5	30 - 39	77.4	3.34	7.75	0.18	0.93	0.94
STRIPED BASS									
Kerr Reservoir	striped bass [< 20"]	7	43 - 48	80.9	15.5	43.1	1.36	11.51	6.04
Kerr Reservoir	striped bass [20 - 24"]	5	53 - 60.5	62.6	20.8	586	26.95	102.71	55.84
Kerr Reservoir	striped bass [24 - 28"]	5	63.5 - 70.3	61.1	17.9	525	27.46	119.62	69.87

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Concentrations in parts per billion

Station	Specimen name	No. of fish analyzed	Length (cm)	% water	% fat (lipid)	Total PCB	Total chlordane *	Total DDT *	Total polybromo diphenyl ether *
STRIPED BASS									
Kerr Reservoir	striped bass [28 - 32"]	1	77.5 - 77.5	65.4	4.36	491	13.38	103.44	97.18
Kerr Reservoir	striped bass [28 - 32"]	2	73.5 - 79	72.0	1.23	779	37.79	156.22	139.1
Kerr Reservoir	striped bass [28 - 32"]	4	72.8 - 81	63.6	14.8	470	20.15	99.98	110.01
FLATHEAD CATFISH, SMALL SIZE									
Altavista	flathead catfish, small size	1	39 - 39	81.3	3.80	72.6	0.83	3.19	0
Long Island	flathead catfish, small size	6	30 - 40	79.9	3.82	104	0.63	2.41	1.45
Brookneal	flathead catfish, small size	5	32 - 49	81.2	3.32	149	1.13	4.63	4.86

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ROANOKE (STAUNTON) RIVER PCB PROJECT

SORTED BY SPECIES

Concentrations in parts per billion

Station	Specimen name	No. of fish analyzed	Length (cm)	% water	% fat (lipid)	Total PCB	Total chlordane *	Total DDT *	Total polybromo diphenyl ether *
FLATHEAD CATFISH, LARGE SIZE									
Leesville Tail Race	flathead catfish, large size	1	75 - 75	78.9	9.90	311	8.02	44.18	57.78
Long Island	flathead catfish, large size	1	49 - 49	80.2	4.76	266	5.24	11.95	6.36
Long Island	flathead catfish, large size	1	55 - 55	79.3	6.54	58.4	0.83	2.55	3.96
Long Island	flathead catfish, large size	1	67 - 67	78.3	13.4	838	13.9	34.84	37.11
Long Island	flathead catfish, large size	1	83 - 83	69.4	47.1	859	61.21	126.87	112.27
Long Island	flathead catfish, large size	1	92 - 92	68.9	49.1	2548	162.55	208.87	310.94
Kerr Reservoir	flathead catfish, large size	1	61 - 61	75.4	13.4	160	6.73	37.19	101.03

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ROANOKE (STAUNTON) RIVER PCB PROJECT

SORTED BY SPECIES

Concentrations in parts per billion

Station	Specimen name	No. of fish analyzed	Length (cm)	% water	% fat (lipid)	Total PCB	Total chlordane *	Total DDT *	Total polybromo diphenyl ether *
CHANNEL CATFISH, SMALL SIZE									
Leesville Tail Race	channel catfish, small size	5	27 - 32	80.5	5.24	12.6	0.46	2.36	0.93
Altavista	channel catfish, small size	6	22.8 - 33.5	80.6	7.88	108	4.72	3.73	1.07
Altavista	channel catfish, small size	3	24 - 30	80.6	7.15	95.2	4.35	6.52	3.01
Long Island	channel catfish, small size	5	23 - 30.5	81.0	7.72	346	2.11	5.26	3.36
Brookneal	channel catfish, small size	5	28 - 30	80.9	5.23	89.9	0.54	2.29	1.87
Clover	channel catfish, small size	10	27.5 - 36	81.2	5.80	125	1.14	6.42	3.93

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Station	Specimen name	No. of fish analyzed	Length (cm)	% water	% fat (lipid)	Total PCB	Total chlordane *	Total DDT *	Total polybromo diphenyl ether *
CHANNEL CATFISH, MEDIUM SIZE									
Leesville Tail Race	channel catfish, medium size	10	42 - 48.5	79.1	7.61	37.3	1.76	6.29	4.12
Altavista	channel catfish, medium size	10	40 - 45	79.7	9.35	208	1.82	7.94	4.24
Long Island	channel catfish, medium size	9	36.5 - 47	72.2	4.43	167	1.73	4.48	3.86
Brookneal	channel catfish, medium size	10	33 - 37.5	80.2	6.40	109	1.18	4.47	3.31
Clover	channel catfish, medium size	8	40.5 - 44	79.4	11.1	327	5.41	18.59	9.37
Kerr Reservoir	channel catfish, medium size	5	32 - 47	79.6	11.8	121	4.07	14.79	14.25

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Station	Specimen name	No. of fish analyzed	Length (cm)	% water	% fat (lipid)	Total PCB	Total chlordane *	Total DDT *	Total polybromo diphenyl ether *
CHANNEL CATFISH, LARGE SIZE									
Leesville Tail Race	channel catfish, large size	4	49.5 - 58	76.5	18.0	111	5.2	22.91	14.97
Altavista	channel catfish, large size	6	47.5 - 69	77.1	24.9	672	8.34	30.59	28.31
Long Island	channel catfish, large size	6	47 - 56	78.1	15.7	788	6.61	33.89	33.62
Brookneal	channel catfish, large size	13	41.5 - 58	75.0	4.86	162	1.85	12.38	16.44
Clover	channel catfish, large size	11	48.5 - 61.5	72.6	14.3	399	8.74	30.29	19.86
BLUE CATFISH									
Kerr Reservoir	blue catfish	5	29 - 35	82.7	3.65	16.7	0.51	2.8	1.27

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WHITE CATFISH									
Kerr Reservoir	white catfish	5	23 - 26.5	81.7	3.78	5.88	0.14	0.7	0.71
REDHORSE SUCKER									
Leesville Tail Race	redhorse sucker	5	39 - 48	76.6	14.2	164	5.07	17.01	10.94
Altavista	redhorse sucker	10	41 - 46.5	79.5	7.57	286	3.52	5.31	10.38
Long Island	redhorse sucker	5	41 - 45	73.0	7.33	412	4.63	10.89	28.3
Brookneal	redhorse sucker	5	43 - 50	78.7	5.94	516	4.35	15.11	28.22
Clover	redhorse sucker	5	47 - 52	78.2	5.88	388	2.85	17.36	17.59
Kerr Reservoir	redhorse sucker	5	40 - 49.5	72.8	5.76	34.9	0.92	7.62	9.58
QUILLBACK CARPSUCKER									
Brookneal	quillback carpsucker	5	33.5 - 40	76.9	5.81	149	1.05	5.34	4.3

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				CARP					
Leesville Tail Race	carp	5	52 - 56	79.9	5.04	57.5	1.13	3.69	1.39
Altavista	carp	5	43.5 - 59	78.2	8.18	309	2.43	17.66	26.85
Long Island	carp	5	55 - 62	72.4	9.37	1002	13.25	19.72	23.92
Brookneal	carp	3	50 - 59	71.7	4.19	304	1.68	11.15	8.35
Clover	carp	1	67.5 - 67.5	80.0	3.02	132	0.61	3.91	4.28
Kerr Reservoir	carp	2	45 - 54	78.2	15.0	177	5.14	31.8	26.38

**** The Department of Environmental Quality and the Department of Health have reviewed the sampling results for these contaminants and have determined that the concentrations are below levels of concern for human health. The analysis for these contaminants was included in the original laboratory analysis for PCBs.***