

TENNESSEE VALLEY AUTHORITY  
CHATTANOOGA, TENNESSEE  
37401



TO: Those listed  
FROM: W. R. Nicholas  
DATE: June 25, 1973  
SUBJECT: MERCURY IN FLESH OF FISH TAKEN FROM TVA RESERVOIRS

The mercury data tabulation sent you on June 30, 1972, has been extended through December 1972, as shown below. These data will be submitted annually in the future, and our next tabulation will include only the results from January 1973 through December 1973.

Boone Reservoir

South Fork Holston River mile 26.2, March 14, 1972 (EPA data have been added, page 2); September 13, 1972 (TVA, EPA, and TWQCB data have been added, page 2).

Watauga River mile 6, March 15, 1972 (EPA data have been added, page 3); September 12, 1972 (TVA, EPA, and TWQCB data have been added, page 3).

The fish in Boone Reservoir continue to show "background" concentrations of mercury in their flesh. The highest value for the 28 fish collected in September 1972 was 0.14 ppm in a largemouth bass.

North Fork Holston River

North Fork Holston River mile 72, March 13, 1972 (EPA data have been added, page 3).

North Fork Holston River mile 69, June 15, 1972 (TVA and EPA data have been added, page 4).

North Fork Holston River mile 68, September 11, 1972 (TVA and EPA data have been added, page 5).

North Fork Holston River mile 7, December 13, 1971 (EPA and TWQCB data have been added, page 6); March 14, 1972 (EPA data have been added, page 6); June 16, 1972 (TVA, EPA, and TWQCB data have been added, page 6).

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June 25, 1973

MERCURY IN FLESH OF FISH TAKEN FROM TVA RESERVOIRS

North Fork Holston River mile 0.5, September 12, 1972 (TVA, EPA, and TWQCB data have been added, page 7).

All mercury concentrations in the flesh of fish collected at mile 69 and 68 during June and September 1972, were well above the FDA guideline value of 0.5 ppm except for a rainbow trout. The highest value was 4.8 ppm in a smallmouth bass, and the lowest value, excluding the single trout, was 1.0 ppm in a redhorse. At river mile 7 from December 1971 through June 1972, the highest concentration was 2.2 ppm in a smallmouth bass and the lowest value was 0.24 ppm in a redhorse. The highest concentration at river mile 0.5 during September 1972, was 3.0 ppm in a smallmouth bass, whereas the lowest was 0.11 ppm in a bluegill.

Chickamauga Reservoir (Hiwassee Arm)

Hiwassee River mile 13, September 10, 1971 (TWQCB data have been added, page 12); November 30, 1971 (EPA and TWQCB data have been added, page 12); February 28, 1972 (EPA and TWQCB data have been added, page 12); September 14, 1972 (TVA, EPA, and TWQCB data have been added, page 13).

During the period from September 1971 through September 1972, only a single largemouth bass, out of 80 fish collected, exceeded the FDA guideline of 0.5 ppm. This concentration was 0.53 ppm.

Chickamauga Reservoir

Tennessee River mile 490, September 10, 1971 (TWQCB data have been added, page 15); December 8, 1971 (EPA data have been added, page 15); February 29, 1972 (EPA data have been added, page 15); September 15, 1972 (TVA, EPA, and TWQCB data have been added, page 15).

Out of the 80 fish collected from September 1971 through September 1972, only three fish had concentrations of mercury in the flesh above the FDA guideline of 0.5 ppm. A redhorse contained 0.64 ppm, a spotted bass contained 0.54 ppm, and a drum contained 0.51 ppm. Several had concentrations near the minimum detectable amount of 0.05 ppm.

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June 25, 1973

MERCURY IN FLESH OF FISH TAKEN FROM TVA RESERVOIRS

Pickwick Reservoir

Tennessee River mile 248, April 19, 1972 (EPA data have been added, page 20).

Tennessee River mile 240, November 23, 1971 (an EPA value was corrected on page 23); December 16, 1971, February 15, 1972, March 15, 1972 (EPA data have been added, page 24); April 13, 1972, May 19, 1972 (EPA data have been added, page 25); June 12, 1972, July 14, 1972, September 25, 1972, November 20, 1972 (TVA and EPA data have been added, pages 25 and 26).

Tennessee River mile 210, December 17, 1971 (EPA data have been added, page 31); January 20, 1972, January 24, 1972 (TWQCB data have been added, page 31); February 17, 1972, March 17, 1972 (EPA and TWQCB data have been added, page 31); April 13, 1972 (EPA data have been added, page 31); May 18, 1972 (EPA and TWQCB data have been added, page 32); June 14, 1972, July 12, 1972, September 27, 1972, November 16, 1972 (TVA, EPA, and TWQCB data have been added, page 32).

The mean concentrations of mercury, by months, in all the fish collected from Pickwick Reservoir are shown in figure 1 (following page 47). Even though the trend line for the summer and fall is higher than for the spring and winter of 1972, the results are still encouraging since the highest mean is less than 1.0 ppm (approximately 0.8 ppm).

Kentucky Reservoir

Tennessee River mile 157, November 24, 1971 (TWQCB data have been added, page 37); December 20, 1971 (EPA data have been added, page 38); January 27, 1972 (TWQCB data have been added, page 38); February 16, 1972 (EPA data and TWQCB data have been added, page 38); March 16, 1972, April 12, 1972 (EPA data have been added, pages 38 and 39); May 16, 1972 (EPA and TWQCB data have been added, page 39); June 13, 1972, July 12, 1972, September 26, 1972, November 15, 1972 (TVA, EPA, and TWQCB data have been added, pages 39 and 40).

Those listed  
June 25, 1973

MERCURY IN FLESH OF FISH TAKEN FROM TVA RESERVOIRS

Tennessee River mile 60, April 22, 1971 (a TWQCB value was corrected, page 42); December 21, 1971 (EPA data have been added, page 44); January 19, 1972 (TWQCB data have been added, page 44); February 17, 1972 (EPA and TWQCB data have been added, page 45); March 17, 1972, April 13, 1972 (EPA data have been added, page 45); May 17, 1972 (EPA and TWQCB data have been added, page 45); June 14, 1972, July 13, 1972, September 27, 1972, November 16, 1972 (TVA, EPA, and TWQCB data have been added, pages 45 and 46).

The mean concentrations of mercury, by months, in all the fish collected from Kentucky Reservoir are shown in figure 4. These results show that the mean concentrations during 1972 remain below the EPA guideline of 0.5 ppm except for April and May which were only slightly above (approximately 0.55 ppm).

TENNESSEE VALLEY AUTHORITY

*W. R. Nicholas, Jr.*

W. R. Nicholas, Chief, Water Quality Branch

TO: See list on following pages

Attachments

Those listed

MERCURY CONCENTRATIONS IN FISH FLESH - SURVEY OF TVA RESERVOIRS

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Those listed

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Location	Collection Date	Fish Species	Mercury in Flesh (ppm)		Location	Collection Date	Fish Species	Mercury in Flesh (ppm)	
			TVA	EPA SEWL				TVA	EPA SEWL
<u>BOONE RESERVOIR</u>									
South Fork Holston River Mile 26.5	5-2-70	Black crappie	<0.1		South Fork Holston River Mile 26.2	3-16-71	Carp	0.05	0.08
		Carp	<0.1				Carp	0.06	
		Carp	0.1				Carp	0.06	
		Gizzard shad	<0.1				Carp	0.07	
		White crappie	<0.1				Carp	0.08	
							Carp		0.06
							Carp		0.08
							Carp		0.09
							Carp		0.10
							Carp		0.17
							Largemouth bass	<0.05	
							Largemouth bass	<0.05	
							Largemouth bass	<0.05	
							Largemouth bass	<0.05	
							Largemouth bass	<0.05	
							Largemouth bass	<0.05	
							Largemouth bass	<0.05	
							Largemouth bass	<0.05	
							Largemouth bass	0.10	
							Largemouth bass	0.08	0.04
							Largemouth bass	0.06	0.08
							Largemouth bass	<0.05	
							Largemouth bass	<0.05	
							Largemouth bass	0.10	
							Largemouth bass	0.04	
							Largemouth bass	0.06	
							Largemouth bass	0.08	
							Largemouth bass	<0.04	
							Largemouth bass	0.04	
							Largemouth bass	<0.04	0.05
							Largemouth bass	<0.04	0.06
							Largemouth bass	0.08	
							Largemouth bass	0.06	
							Largemouth bass	0.08	
							Largemouth bass	0.12	
							Largemouth bass	0.12	
							Quillback	0.35	
							Quillback	0.05	
							Redhorse	0.13	
							Redhorse	0.11	
<u>SOUTH HOLSTON RESERVOIR</u>									
South Fork Holston River Mile 61	7-22-70	Bluegill	<0.05		South Fork Holston River Mile 26.5	5-2-70	Black crappie	<0.1	
		Bluegill	<0.05				Carp	<0.1	
		Carp	<0.05				Carp	0.1	
		Carp	<0.05				Gizzard shad	<0.1	
		Gizzard shad	<0.05				White crappie	<0.1	
		Gizzard shad	<0.05						
		Largemouth bass	<0.05						
		Smallmouth bass	<0.05						
<u>WATAUGA RESERVOIR</u>									
Roan Creek Mile 2	7-30-70	Bluegill	<0.05		South Fork Holston River Mile 29	5-2-70	Carp	0.1	
		Bluegill	<0.05				Carp	0.1	
		Drum	<0.05				Carp	0.1	
		Drum	0.11				Crappie	<0.1	
		Gizzard shad	<0.05				Crappie	<0.1	
		Gizzard shad	<0.05				Crappie	0.1	
		Redhorse	<0.05				Crappie	0.2	
		Redhorse	<0.05				Gizzard shad	<0.1	
		Smallmouth bass	<0.05				Gizzard shad	<0.1	
		Walleye	<0.05				Gizzard shad	<0.1	
White crappie	<0.05		Gizzard shad	0.1					
<u>BOONE RESERVOIR</u>									

Location	Collection Date	Fish Species	Mercury in Flesh (ppm)		Location	Collection Date	Fish Species	Mercury in Flesh (ppm)	
			TVA	EPA SEWL				TVA	EPA SEWL
<u>BOONE RESERVOIR</u>									
South Fork Holston River Mile 26.2	9-13-71	Carp	0.05		South Fork Holston River Mile 26.2	9-13-72	Bluegill	<0.05	
		Carp	0.09				Bluegill	<0.05	
		Carp	0.09				Bluegill	0.09	
		Carp	0.12				Bluegill		0.04
		Carp		0.04			Bluegill		0.05
		Carp		0.08			Largemouth bass	0.07	<0.04
		Carp		0.08			Largemouth bass	0.10	<0.04
		Carp		0.15			Largemouth bass		0.05
		Carp		0.23			Largemouth bass		0.07
		Carp		<0.05			Warmouth		0.07
		Carp		<0.05					0.09
		Carp		<0.05					0.05
<u>BOONE RESERVOIR</u>									
South Fork Holston River Mile 26.2	9-13-71	Largemouth bass	<0.04		Watauga River Mile 6	3-16-71	Carp	<0.05	
		Largemouth bass	<0.04				Carp	<0.05	
		Largemouth bass		0.02			Carp	0.07	
		Largemouth bass		0.03			Carp		0.05
		Largemouth bass		0.12			Largemouth bass	<0.05	0.04
		Largemouth bass		0.16			Largemouth bass	<0.05	0.18
		Largemouth bass					Largemouth bass		0.03
		Redhorse	0.09				Largemouth bass		0.03
		White bass	<0.05				Largemouth bass		0.04
		White bass	<0.05				Largemouth bass		0.05
		White bass		0.13			Largemouth bass		0.05
		White bass					Largemouth bass		0.05
<u>BOONE RESERVOIR</u>									
South Fork Holston River Mile 26.2	9-13-71	Carp	0.07		Watauga River Mile 6	5-19-71	Carp	<0.05	
		Carp	0.13				Carp	0.07	
		Carp	0.13				Carp		0.05
		Carp	0.18				Channel catfish	<0.05	
		Carp	0.22				Channel catfish	0.05	
		Carp		0.06			Channel catfish		0.02
		Carp		0.06			Channel catfish		0.03
		Carp		0.08			Largemouth bass	0.05	<0.04
		Carp		0.08			Largemouth bass	0.06	0.16
		Carp		0.15			Largemouth bass	0.07	<0.04
		Carp					Largemouth bass	0.13	
		Carp					Largemouth bass	0.17	
Carp			Largemouth bass		0.02				
Carp			Largemouth bass		0.08				
Carp			Largemouth bass		0.10				
Carp			Largemouth bass		0.12				
Carp			Largemouth bass		0.21				
Carp			Largemouth bass		0.04				
Carp			Smallmouth bass	<0.05					
Carp			White sucker						

Location	Collection Date	Fish Species	Mercury in Flesh (ppm)				
			TVA	EPA SEWL	TWOCB		
<b>BOONE RESERVOIR</b>							
Watauga River Mile 6	9-14-71	Carp	<0.05				
		Carp	0.07				
		Carp	0.07				
		Carp		0.04			
		Carp		0.05			
		Carp		0.14			
		Largemouth bass			0.02		
		Largemouth bass			0.02		
		Largemouth bass			0.05		
		Largemouth bass			0.07		
		Largemouth bass			0.02		
		Largemouth bass			0.03		
		Largemouth bass			0.07		
		White bass			0.02		
		White bass			0.03		
<b>FORT PATRICK HENRY RESERVOIR</b>							
South Fork Holston River Mile 12	7-22-70	Carp	<0.05				
		Carp	0.06				
		Carp	0.06				
		Carp	0.07				
		Carp	0.17				
<b>NORTH FORK HOLSTON RIVER</b>							
North Fork Holston River Mile 76	8-13-70	Largemouth bass	<0.05				
		Largemouth bass	0.06				
		Largemouth bass	0.06				
		Largemouth bass	0.06				
		Largemouth bass	0.10				
		Largemouth bass	0.02				
		Largemouth bass	0.02				
		Largemouth bass	0.03				
		Largemouth bass	0.05				
		Striped bass	0.06				
		Striped bass	0.06				
		Carp	<0.05				
		Carp	<0.05				
		Carp	0.09				
		<b>BOONE RESERVOIR</b>					
Watauga River Mile 6	9-12-72	Largemouth bass			0.04		
		Largemouth bass			<0.04		
		Largemouth bass			0.11		
		Largemouth bass			0.12		
		Largemouth bass			0.14		
		Largemouth bass			0.02		
		Largemouth bass			0.02		
		Largemouth bass			0.05		
		Largemouth bass			0.07		
		Quillback			<0.04		
		Redhorse			0.06		
		White bass			0.02		
		White bass			0.03		
		<b>NORTH FORK HOLSTON RIVER</b>					
		North Fork Holston River Mile 72	3-13-72	Common shiner			0.94
Common shiner					1.1		
Longear sunfish					1.2*		
Longear sunfish					1.6**		
Longear sunfish					2.4		
Longear sunfish					3.4		
Yellow bullhead					2.6		
Yellow bullhead					3.5		
Yellow bullhead					3.8		
Yellow bullhead					4.0		
Yellow bullhead					4.4		
Redbreast sunfish					1.8		
Redbreast sunfish					2.3		
Redbreast sunfish					2.4		
Redbreast sunfish					2.4		
Redbreast sunfish			2.7				
Redbreast sunfish			2.9				
Redbreast sunfish			3.1				

\*Four small fish (whole) composited for sample.

\*\*Five small fish (whole) composited for sample.





Location	Collection Date	Fish Species	Mercury in Flesh (ppm)			Collection Date	Fish Species	Mercury in Flesh (ppm)			
			TVA	EPA SEWL	TWQCB			TVA	EPA SEWL	TWQCB	
<u>NORTH FORK HOLSTON RIVER</u>											
North Fork Holston River Mile 7	6-28-71	Hogsucker	0.88			North Fork Holston River Mile 7	Hogsucker	0.96			
		Hogsucker	1.1				Hogsucker	1.2			
		Hogsucker		1.15			Hogsucker	1.2			
		Hogsucker		1.38			Hogsucker	1.7			
		Redhorse	1.1	1.43			Hogsucker		1.3		0.69
		Redhorse	1.5		0.39		Hogsucker				0.74
		Redhorse	1.7		2.45		Hogsucker				1.06
		Redhorse					Redbreast sunfish				0.62
		Redhorse	1.4				Redbreast sunfish				0.64
		Smallmouth bass	1.4				Redbreast sunfish				0.87
		Smallmouth bass	1.7				Redbreast sunfish				1.14
		Smallmouth bass	1.9				Redhorse		0.48		0.84
		Smallmouth bass	1.9	1.81			Redhorse		1.5	1.04	
		Smallmouth bass		1.83			Rock bass		1.0		
		Smallmouth bass		1.30			Rock bass		1.4		
		Smallmouth bass			1.11		Rock bass				0.83
		Smallmouth bass		2.02	1.56		Rock bass				1.48
		Smallmouth bass			1.82		Smallmouth bass		2.2	1.93	
		Smallmouth bass			2.47		Smallmouth bass			1.34	
		<u>NORTH FORK HOLSTON RIVER</u>									
North Fork Holston River Mile 7	12-13-71	Redhorse	0.65			North Fork Holston River Mile 7	Hogsucker	1.3			
		Redhorse	1.1				Hogsucker	1.6			
		Redhorse	1.5				Hogsucker				1.47
		Redhorse	1.7				Redhorse		2.1		0.24
		Redhorse	2.1				Redhorse				
		Redhorse					Redhorse				
		Redhorse					Smallmouth bass		1.3		
		Redhorse					Smallmouth bass		1.9	2.33	
		Redhorse					Smallmouth bass		1.9	1.83	
		Redhorse					Smallmouth bass		2.1		
		Redhorse					Smallmouth bass		2.2		
		Rock bass	1.1				Smallmouth bass				0.82
		Rock bass	1.5				Smallmouth bass				1.14
		Rock bass					Smallmouth bass				1.30
		Rock bass					Smallmouth bass				1.39
		Smallmouth bass		0.76	1.06		Smallmouth bass				1.64
		Smallmouth bass		1.16	1.40		Smallmouth bass				
		Smallmouth bass	1.5				Smallmouth bass				
		Smallmouth bass	1.8				Smallmouth bass				
		Smallmouth bass	2.0	1.82			Yellow bullhead		1.5		0.39
Smallmouth bass				Yellow bullhead		1.9		0.91			
Smallmouth bass		1.97	1.63	Yellow bullhead				1.14			
Smallmouth bass			1.77	Yellow bullhead							
Smallmouth bass			1.76	Yellow bullhead							

Location	Collection Date	Fish Species	Mercury in Flesh (ppm)			Collection Date	Fish Species	Mercury in Flesh (ppm)		
			TVA	EPA SEWL	TWOCB			TVA	EPA SEWL	TWOCB
<u>NORTH FORK HOLSTON RIVER</u>										
North Fork Holston River Mile 0.5	8-11-70	Hogsucker	0.88			Holston River Mile 135 (Approximate)	Gizzard shad	<0.05		
		Hogsucker	0.93				Gizzard shad	<0.05		
		Hogsucker	1.2				Gizzard shad	<0.05		
		Hogsucker	1.5				Gizzard shad	<0.05		
		Rock bass	0.92				Gizzard shad	<0.05		
		Rock bass	0.95				Gizzard shad	<0.05		
		Rock bass	1.0				Gizzard shad	<0.05		
		Smallmouth bass	0.84				Gizzard shad	<0.05		
		Smallmouth bass	1.4				Gizzard shad	<0.05		
		Smallmouth bass	1.7				Gizzard shad	<0.05		
		Smallmouth bass	2.6				Gizzard shad	<0.05		
	9-12-72	Bluegill	0.14				Green sunfish	<0.05*		
		Bluegill		0.11			Minnows	<0.05**		
		Bluegill		0.39			White sucker	<0.05*		
		Channel catfish	0.98			Holston River Mile 118 (Approximate)	Br. bullhead	0.25		
		Channel catfish	1.3				Blue catfish	0.10		
		Channel catfish	2.2				Carp	0.14		
		Channel catfish		0.37			Carp	0.15		
		Flathead catfish		1.62			Gizzard shad	0.06		
		Redbreast sunfish	0.43				Gizzard shad	0.10		
		Redbreast sunfish		0.69			Gizzard shad	0.14		
		Redhorse	1.0				Largemouth bass	0.06		
		Redhorse	2.3				Redbreast sunfish	0.11		
		Redhorse		0.67			Redbreast sunfish	0.24		
		Redhorse		0.79			Redbreast sunfish	0.36		
		Redhorse		1.07			Smallmouth bass	0.13		
		Smallmouth bass	0.36				Smallmouth bass	0.13		
		Smallmouth bass	1.5		1.18		Warmouth bass	0.41		
		Smallmouth bass	3.0		1.97		White sucker	0.12		
		Smallmouth bass		1.66			White sucker	0.26		
		Smallmouth bass		2.19			Yellow bullhead	0.13		
		Smallmouth bass								
<u>HOLSTON RIVER</u>										
Holston River Mile 135 (Approximate)	10-6-70	Bluegill	<0.05*			Holston River Mile 106 (Approximate)	Bluegill	0.16		
		Gizzard shad	<0.05				Bluegill	0.17		
		Gizzard shad	<0.05				Carp	0.16		
		Gizzard shad	<0.05				Carp	0.38		
		Gizzard shad	<0.05				Gizzard shad	0.13		
		Gizzard shad	<0.05				Gizzard shad	0.22		
		Gizzard shad	<0.05				Largemouth bass	0.12		
		Gizzard shad	<0.05				Largemouth bass	0.62		

\*Whole fish (too small to file).

\*\*Whole fish (six, 2-inches long) too small to file.

Location	Collection Date	Fish Species	Mercury in Flesh (ppm)	TVA	EPA	SEWL	TWOCE	Location	Collection Date	Fish Species	Mercury in Flesh (ppm)	TVA	EPA	SEWL	TWOCE
<u>CHEROKEE RESERVOIR</u>															
Holston River Mile 92	7-28-70	Bluegill	<0.05					Holston River Mile 69	8-10-70	Bluegill	0.16				
		Carp	<0.05							Bluegill	0.18				
		Carp	<0.05							Channel catfish	0.14				
		Flathead catfish	<0.05							Carp	0.16				
		Flathead catfish	<0.05							Carp	0.19				
		Gizzard shad	<0.05							Gizzard shad	0.05				
		Goldfish	<0.05							Gizzard shad	0.07				
		Rockfish (hybrid)	<0.05							Largemouth bass	0.13				
		Rockfish (hybrid)	<0.05							Largemouth bass	0.33				
		White bass	<0.05												
		White bass	0.05												
<u>CHEROKEE RESERVOIR</u>															
Holston River Mile 90	8-11-70	Bluegill	0.32						11-17-70	Bluegill	<0.05				
		Bluegill	0.42							Bluegill	<0.05				
		Carp	0.20							Bluegill	0.07				
		Carp	0.39							Bluegill	0.08				
		Gizzard shad	0.15							Bluegill	0.18				
		Gizzard shad	0.19							Carp	0.06				
		Largemouth bass	0.28							Carp	0.13				
		Largemouth bass	0.37							Carp	0.15				
										Carp	0.19				
										Crappie	<0.05				
										Crappie	0.05				
										Crappie	0.06				
										Gizzard shad	<0.05				
										Gizzard shad	<0.05				
										Gizzard shad	0.06				
										Gizzard shad	0.08				
										Golden redbreast	0.16				
										Largemouth bass	0.05				
										Largemouth bass	0.09				
										Largemouth bass	0.11				<0.04
										Largemouth bass	0.12				<0.04
										Largemouth bass	0.16				0.23
										Largemouth bass	0.32				
<u>DOUGLAS RESERVOIR</u>															
Holston River Mile 69	5-25-70	Bluegill	<0.2					French Broad River Mile 55	5-27-70	Bluegill	<0.05				
		Bluegill	<0.2							Carp	<0.05				
		Carp	<0.1							Carp	<0.05				
		Carp	<0.2							Gizzard shad	<0.05				
		Gizzard shad	<0.1							Gizzard shad	<0.05				
		Gizzard shad	<0.2							Largemouth bass	<0.05				
		Largemouth bass	<0.1							Largemouth bass	<0.05				
		Smallmouth bass	0.3							Largemouth bass	<0.05				

Location	Collection Date	Fish Species	Mercury in Flesh (ppm)			Location	Collection Date	Fish Species	Mercury in Flesh (ppm)		
			TVA	EPA SEWL	TWQCB				TVA	EPA SEWL	TWQCB
<u>FORT LOUDON RESERVOIR</u>											
Tennessee River Mile 634	6-4-70	Bluegill Bluegill Carp Carp Gizzard shad Gizzard shad Largemouth bass Largemouth bass	<0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05			Powell River Mile 30	7-21-70	Bass Bass Bluegill Bluegill Gizzard shad Gizzard shad Redhorse Redhorse	<0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05		
Tennessee River Mile 618	6-3-70	Bluegill Bluegill Carp Carp Gizzard shad Gizzard shad Largemouth bass Largemouth bass	<0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05			Clinch River Mile 124	7-16-70	Bluegill Bluegill Carp Carp Gizzard shad Gizzard shad Largemouth bass Quillback White bass	<0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05		
<u>FONTANA RESERVOIR</u>											
Little Tennessee River Mile 74	6-2-70	Bluegill Bluegill Carp Carp Gizzard shad Gizzard shad Largemouth bass Largemouth bass	<0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05			Clinch River Mile 43	5-21-70	Bluegill Bluegill Buffalo Buffalo Gizzard shad Gizzard shad Largemouth bass Largemouth bass	<0.2 <0.2 <0.2 <0.2 Not detectable 1.4 <0.2 <0.2		
<u>CHIHOMEE RESERVOIR</u>											
Little Tennessee River Mile 38.5	7-27-70	Bluegill Gizzard shad Redhorse	<0.05 <0.05 <0.05				6-25-70	Gizzard shad Gizzard shad Gizzard shad Gizzard shad Gizzard shad	<0.05 <0.05 <0.05 <0.05 <0.05		
Abrams Creek Embayment	7-27-70	Channel catfish Channel catfish Redhorse White sucker	<0.05 <0.05 <0.05 <0.05								
<u>MELTON HILL RESERVOIR</u>											

Location	Collection Date	Fish Species	Mercury in Flesh (ppm)			Collection Date	Location	Fish Species	Mercury in Flesh (ppm)		
			TVA	SEWL	TWOCB				TVA	SEWL	TWOCB
<u>MATTIS BAR RESERVOIR</u>											
Tennessee River Mile 579	6-2-70	Carp Gizzard shad Gizzard shad Redbreast sunfish Redbreast sunfish Smallmouth buffalo Spotted bass White crappie White crappie	<0.05 <0.05 0.08 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05			Grape Creek	5-25-70	Bluegill Bluegill Carp Carp Channel catfish Channel catfish Gizzard shad Gizzard shad Redhorse River redhorse	<0.1 <0.7 <0.1 <0.2 <0.1 <0.2 <0.1 <0.2 <0.2 0.2		
<u>APALACHIA RESERVOIR</u>											
Tennessee River Mile 555	6-2-70	Bluegill Bluegill Drum Gizzard shad Gizzard shad Largemouth bass Smallmouth buffalo White crappie White crappie	<0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05			Hivasssee River Mile 72-73	7-28-70	Gizzard shad Gizzard shad Redhorse Spotted bass Spotted bass Walleye Walleye	<0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05		
<u>CHATUGE RESERVOIR</u>											
Hivasssee River Mile 125	7-23-70	Bluegill Bluegill Channel catfish Smallmouth bass White bass White bass	<0.05 <0.05 <0.05 <0.05 <0.05 <0.05			Hivasssee River Mile 45.5 Hivasssee River Mile 44.5 Hivasssee River Mile 40.5 Hivasssee River Mile 39.5 Hivasssee River Mile 29.5	10-20-70 10-20-70 10-19-70 10-20-70 10-20-70	Rainbow trout Brown trout Rainbow trout Rainbow trout Rainbow trout	<0.05 <0.05 <0.05 <0.05 <0.05		
<u>NOTTELY RESERVOIR</u>											
Notteley River Mile 35	7-23-70	Flathead catfish Flathead catfish Spotted bass Spotted bass Walleye	<0.05 <0.05 <0.05 <0.05 <0.05			Toccoa River Mile 57.6	7-24-70	Black redhorse Carp Hogsucker	<0.05 <0.05 <0.05		
<u>BLUE RIDGE RESERVOIR</u>											

**CHICKAMAUGA RESERVOIR**  
(HIWASSEE ARM)

Location	Collection Date	Fish Species	Mercury in Flesh (ppm)			
			TVA	EPA SEWL	TWQCB	FDA Stewart ESEC
Hiwassee River Mile 13	10-19-70	Bluegill	<0.05			
		Bluegill	<0.05			
		Bluegill	0.12			
		Bluegill	0.13	<0.04		
		Bluegill		<0.04		
		Bluegill		0.08		
		Buffalo	0.09	0.12	0.13	0.05
		Golden redbhorse	0.05	0.03	0.06	0.02
		Kentucky bass	0.08	0.23	0.21	0.10
		Largemouth bass	0.11	0.24	0.46	0.10
Largemouth bass		0.10		0.44		
Largemouth bass		0.13		0.74		
Largemouth bass		0.56				
Largemouth bass				0.10		
Redear sunfish		0.05				
Redear sunfish		0.08				
Shad		<0.05	0.08	0.05	<0.02	
Shad		<0.05				
Shad		<0.05				
Shad		<0.05				
Shad		0.06				
Shad		0.07				
Shad		<0.04				
Shad		0.08				
Shad		0.54				
Shad				0.04		
Hiwassee River Mile 13	2-17-71	Bluegill			0.18	
		Buffalo			0.43	
		Carp			0.04	
		Carp	<0.05			
		Carp	0.12			
		Carp	0.13			
		Carp				
		Largemouth bass			0.24	
		Largemouth bass	0.48		0.43	
		Largemouth bass			0.69	
Redear sunfish	<0.05					
Redear sunfish	<0.05					
Redear sunfish			0.06			
Spotted bass	0.31					
Spotted sucker				0.01		
Spotted sucker	<0.05					
Spotted sucker	<0.05					
Spotted sucker			0.14			
Warmouth			0.73			
White crappie	0.29					

**BLUE RIDGE RESERVOIR**

Location	Collection Date	Fish Species	Mercury in Flesh (ppm)			
			TVA	EPA SEWL	TWQCB	
Toccoa River Mile 55	7-23-70	Channel catfish	<0.05			
		Gizzard shad	<0.05			
		Largemouth bass	<0.05			
		Smallmouth bass	<0.05			
Syaco Cove	5-26-70	Carp	<0.1			
		Carp	<0.2			
		White sucker	<0.1			
		White sucker	<0.1			

**COOPE NO. 1 RESERVOIR**

**CHICKAMAUGA RESERVOIR**  
(HIWASSEE ARM)

Location	Collection Date	Fish Species	Mercury in Flesh (ppm)			
			TVA	EPA SEWL	TWQCB	
Hiwassee River Mile 14	6-5-70	Buffalo	<0.05			
		Carp	<0.05			
		Crappie	<0.05			
		Crappie	<0.05			
		Drum	<0.05			
		Gizzard shad	<0.05			
		Gizzard shad	0.07			
		Gizzard shad	0.08			
		Gizzard shad	0.10			
		Largemouth bass	0.17			
Quillback	<0.05					
Smallmouth buffalo	<0.05					
Smallmouth buffalo	<0.05					
Spotted sucker	<0.05					
Hiwassee River Mile 13	7-20-70	Bass	<0.05			
		Bass	<0.05			
		Bluegill	<0.05			
		Buffalo	<0.05			
		Carp	<0.05			
		Gizzard shad	<0.05			
Gizzard shad	0.06					
Redear sunfish	<0.05					



Location	Collection Date	Fish Species	Mercury in Flesh (ppm)	Location	Collection Date	Fish Species	Mercury in Flesh (ppm)
<u>CHICKAMAUGA RESERVOIR</u>							
<u>(HIWASSEE ARM)</u>							
Hiwassee River Mile 13	9-14-72	Carp	0.10	Tennessee River Mile 508	6-3-70	Bluegill	<0.05
		Carp	0.11			Channel catfish	<0.05
		Carp	0.10			Gizzard shad	<0.05
		Drum	0.18			Gizzard shad	<0.05
		Largemouth bass	0.31			Redhorse	<0.05
		Largemouth bass	0.32			Redhorse	<0.05
		Largemouth bass	0.41				
		Largemouth bass	0.53				
		Largemouth bass	0.19				
		Largemouth bass	0.11				
		Largemouth bass	0.14				
		Largemouth bass	0.16				
Largemouth bass	0.20						
Largemouth bass	0.40						
Largemouth bass	0.03						
Spotted sucker	0.06						
Spotted sucker	0.08						
Spotted sucker							
Spotted sucker							
<u>CHICKAMAUGA RESERVOIR</u>							
<u>(HIWASSEE ARM)</u>							
Hiwassee River Mile 7.5	10-19-70	Bluegill	<0.05	Tennessee River Mile 505	10-20-70	Bluegill	<0.05
		Bluegill	<0.04			Bluegill	<0.04
		Bluegill	<0.04			Bluegill	0.14
		Bluegill	0.04			Bluegill	0.14
		Gizzard shad	<0.05			Largemouth bass	0.20
		Gizzard shad	<0.05			Largemouth bass	0.28
		Largemouth bass	<0.05			Largemouth bass	0.06
		Largemouth bass	0.06			Redear sunfish	0.11
		Redear sunfish	0.11			Redear sunfish	0.12
		Redear sunfish	<0.05			Redear sunfish	<0.05
		Redear sunfish	<0.05			Redear sunfish	<0.05
		Shad	<0.05			Shad	<0.04
Shad	<0.05	Shad	<0.04				
Shad	<0.05	Shad	0.07				
Shad	<0.05	Shad	0.38				
Shad	0.19	Spotted bass	0.10				
Shad	<0.04	Spotted bass	0.25				
Shad	<0.04	Spotted bass	0.02				
Shad	0.20	Spotted bass	0.60				
White bass	0.15						
White bass	0.16						
White crappie	<0.05						

EPA  
SEML  
TVA  
TWOCB  
FDA  
Stewart  
ESEC



Location	Collection Date	Fish Species	Mercury in Flesh (ppm)		Location	Collection Date	Fish Species	Mercury in Flesh (ppm)		
			TVA	EPA SEMI				TVA	EPA SEMI	
Tennessee River Mile 490	9-10-71	Carp	0.24		Tennessee River Mile 490	2-29-72	Bass	0.12	0.24	
		Largemouth bass		0.08			Bass	0.23		
		Redhorse	0.26	0.35			Bass	0.24		
		Redhorse	0.34				Bass	0.38	0.55	
		Redhorse		0.10			Bass		0.33	
		Redhorse		0.36			Bass		0.37	
		Smallmouth buffalo	0.25				Bass			
		Smallmouth buffalo	0.32				Bass		0.09	
		Smallmouth buffalo		0.21			Bass		0.24	
		Smallmouth buffalo		0.42			Bass		0.25	
		Spotted bass	0.08				Bass		0.31	
		Spotted bass	0.09				Bass		0.44	
		Spotted bass	0.09				Carp	0.14		
		Spotted bass	0.18	0.20			Carp	0.14		
		Spotted bass	0.27	0.44			Carp		0.20	
	Spotted bass			Carp		0.23				
	Spotted bass		0.29	Carp		0.31				
	Spotted bass			Carp		0.11				
	12-8-71		Blue catfish			Tennessee River Mile 490	9-15-72	Largemouth bass	0.15	
			Buffalo	0.10				Redhorse	0.11	
Buffalo				0.14	Redhorse				0.11	
Carp			<0.05	0.20	Spotted sucker			<0.05		
Carp			<0.05		Spotted sucker			<0.05		
Carp				0.16	Spotted sucker				0.03	
Carp			0.11	0.20	Carp			0.41		
Channel catfish			0.07	0.12	Carp			0.45		
Channel catfish				0.23	Carp				0.24	
Crappie				0.21	Carp				0.30	
		Largemouth bass	0.22	0.25	Tennessee River Mile 490		Drum	0.12		
		Largemouth bass	0.39	0.47			Drum	0.51		
		Largemouth bass		0.13			Drum		0.05	
		Redhorse	0.20				Drum		0.05	
		Redhorse	0.22				Drum		0.14	
		Redhorse		0.43			Largemouth bass	0.11	<0.04	
		Redhorse		0.17			Largemouth bass	0.39	0.35	
		Redhorse		0.27			Largemouth bass		0.29	
		Sunfish					Redhorse	0.64		
							Spotted bass	0.21		

CHICKAMAUGA RESERVOIR

CHICKAMAUGA RESERVOIR

Location	Collection Date	Fish Species	Mercury in Flesh (ppm)		Location	Collection Date	Fish Species	Mercury in Flesh (ppm)	
			TVA	EPA SEWL				TVA	EPA SEWL
<u>NICKAJACK RESERVOIR</u>									
Tennessee River Mile 457	6-9-70	Carp	<0.05		Tennessee River Mile 319	6-10-70	Bluegill	<0.05	
		Gizzard shad	<0.05				Bluegill	<0.05	
		Gizzard shad	0.06				Carp	<0.05	
		Golden redborse	<0.05				Carp	<0.05	
		Largemouth bass	<0.05				Gizzard shad	<0.05	
		Redear sunfish	<0.05				Gizzard shad	<0.05	
		Smallmouth buffalo	<0.05				Golden redborse	<0.05	
		Spotted sucker	<0.05				Golden redborse	<0.05	
<u>WHEELER RESERVOIR</u>									
Tennessee River Mile 441	6-9-70	Carp	<0.05		Tennessee River Mile 298	6-10-70	Gizzard shad	0.07	
		Channel catfish	<0.05				Gizzard shad	0.10	
		Gizzard shad	<0.05				Largemouth bass	<0.05	
		Gizzard shad	<0.05				Largemouth bass	0.08	
		Largemouth bass	<0.05				Smallmouth buffalo	0.08	
		Largemouth bass	<0.05				Smallmouth buffalo	0.12	
		Redear sunfish	<0.05				White bass	<0.05	
		Redear sunfish	<0.05				White bass	<0.05	
<u>GUNNERSVILLE RESERVOIR</u>									
Tennessee River Mile 394	6-9-70	Bigmouth buffalo	<0.05		Tennessee River Mile 267	6-17-70	Carp	<0.1	
		Gizzard shad	<0.05				Channel catfish	0.1	
		Gizzard shad	0.07				Drum	<0.1	
		Largemouth bass	<0.05				Gizzard shad	<0.1	
		Largemouth bass	<0.05				Gizzard shad	<0.1	
		Redear sunfish	<0.05				Largemouth bass	<0.1	
		Smallmouth buffalo	<0.05				Largemouth bass	0.2	
		White crappie	0.07				White crappie	<0.1	
<u>WILSON RESERVOIR</u>									
Tennessee River Mile 372	6-9-70	Blue catfish	<0.05		Tennessee River Mile 266	6-19-70	Carp	0.37	
		Gizzard shad	<0.05				Flathead catfish	<0.05	
		Largemouth bass	<0.05				Golden redborse	<0.05	
		Largemouth bass	0.06				Largemouth bass	<0.05	
		Redear sunfish	<0.05				Largemouth bass	0.21	
		Redear sunfish	0.05				Redear sunfish	0.11	
		Smallmouth buffalo	<0.05						
		Smallmouth buffalo	<0.05						

Location	Collection Date	Fish Species	Mercury in Flesh (ppm)	TVA	EPA SEWL	TWOCB	Location	Collection Date	Fish Species	Mercury in Flesh (ppm)	TVA	EPA SEWL	TWOCB
<u>PICKWICK RESERVOIR</u>													
Tennessee River Mile 259.3	12-18-70	Sauger	0.33				Tennessee River Mile 257	7-27-70	Redhorse	0.40			
		Sauger	0.37						Redhorse	0.47			
		Sauger	0.39						Smallmouth bass	0.07			
		Sauger	0.64						Smallmouth bass	0.13			
		Sauger	0.90										
Tennessee River Mile 259	6-17-70	Gizzard shad	<0.1					8-11-70	Blue catfish	0.90			
		Gizzard shad	<0.2						Bluegill	0.26			
		Redear sunfish	<0.3						Bluegill	0.36			
		Spotted sucker	<0.2						Bluegill	0.74			
		Spotted sucker	0.6						Bluegill	0.83			
Tennessee River Mile 257.5	5-25-70	Bluegill	0.3						Carp	1.0			
		Bluegill	1.4						Carp	0.38			
		Carp	0.8						Carp	0.42			
		Carp	1.3						Carp	0.66			
		Drum	0.5						Carp	0.71			
		Gizzard shad	0.8						Carp	1.2			
		Gizzard shad	2.0						Carp	1.8			
		Smallmouth bass	0.7						Flathead catfish	2.1			
		White bass	1.0						Gizzard shad	0.13			
Tennessee River Mile 257	6-11-70	Bluegill	<0.4						Gizzard shad	0.20			
		Bluegill	<0.5						Gizzard shad	0.26			
		Carp	1.5						Gizzard shad	0.33			
		Drum	0.8						Gizzard shad	0.38			
		Gizzard shad	<0.3						Gizzard shad	1.6			
		Gizzard shad	<0.3						Largemouth bass	0.53			
		Redhorse	<0.2						Longnose gar	0.37			
		Redhorse	1.3						Redhorse	0.48			
		Redhorse	1.7						Redhorse	0.58			
		Redhorse	1.9						Redhorse	0.70			
		Redhorse	2.3						Redhorse	1.4			
		Redhorse	2.4						Redhorse	1.5			
									Sauger	3.5			
									Smallmouth bass	0.09			
									Smallmouth bass	0.28			
									Smallmouth bass	0.30			
									Smallmouth bass	0.39			
									Smallmouth bass	0.45			
									Smallmouth bass	0.54			
									Smallmouth bass	0.55			
									Spotted sucker	0.10			
									White bass	0.44			

Location	Collection Date	Fish Species	Mercury in Flesh (ppm)			Collection Date	Fish Species	Mercury in Flesh (ppm)		
			TVA	EPA	SEWL			TWCOB	TVA	EPA
Tennessee River Mile 257	9-10-70	Bluegill	0.15			9-12-70	Blue catfish	0.31		
		Bluegill	0.24				Blue catfish	0.35		
PICKWICK RESERVOIR	9-10-70	Bluegill	0.53			Channel catfish	0.33			
		Bluegill	0.54			Sauger	0.79			
Tennessee River Mile 257	9-10-70	Bluegill	0.63			Smallmouth bass	0.98			
		Bluegill	0.93			Bluegill	<0.05			
PICKWICK RESERVOIR	9-10-70	Carp	0.22			Bluegill	0.08			
		Carp	0.41			Bluegill	0.12			
Tennessee River Mile 257	9-10-70	Carp	0.53			Bluegill	0.21			
		Carp	0.56			Bluegill	0.64			
PICKWICK RESERVOIR	9-10-70	Carp	0.57			Carp	0.24			
		Carp	0.65			Carp	0.31			
Tennessee River Mile 257	9-10-70	Channel catfish	0.24			Carp	0.36			
		Channel catfish	0.43			Carp	0.53			
PICKWICK RESERVOIR	9-10-70	Flathead catfish	1.5			Carp	1.1			
		Flathead catfish	0.38			Channel catfish	0.08			
Tennessee River Mile 257	9-10-70	Largemouth bass	0.73			Channel catfish	0.32			
		Largemouth bass	0.53			Channel catfish	0.48			
PICKWICK RESERVOIR	9-10-70	Redhorse	0.65			Largemouth bass	0.26			
		Redhorse	0.65			Redgear sunfish	0.22			
Tennessee River Mile 257	9-10-70	Redhorse	1.2			Redgear sunfish	0.65			
		Redhorse	1.3			Redhorse	0.06			
PICKWICK RESERVOIR	9-10-70	Sauger	0.80			Redhorse	0.41			
		Sauger	0.88			Smallmouth bass	0.06			
Tennessee River Mile 257	9-10-70	Smallmouth bass	0.21			Smallmouth bass	0.09			
		Smallmouth bass	0.35			Smallmouth bass	0.26			
PICKWICK RESERVOIR	9-10-70	Smallmouth bass	0.39			Smallmouth bass	0.85			
		Smallmouth bass	0.40			Yellow bass	0.09			
Tennessee River Mile 257	9-10-70	Smallmouth bass	0.59			Yellow bass	0.09			
		Smallmouth bass	0.62			Yellow bass	0.25			
PICKWICK RESERVOIR	9-10-70	Smallmouth bass	0.63			Yellow bass	0.26			
		Smallmouth bass	0.98			Yellow bass	0.51			
Tennessee River Mile 257	9-10-70	Smallmouth bass	1.0			Bluegill	0.17			
		Smallmouth bass	1.0			Bluegill	0.18			
PICKWICK RESERVOIR	9-10-70	Smallmouth bass	1.1			Bluegill	0.19			
		Smallmouth bass	1.4			Bluegill	0.19			
Tennessee River Mile 257	9-10-70	Smallmouth bass	1.5			Bluegill	0.20			
		Smallmouth bass	0.73			Bluegill	0.21			
PICKWICK RESERVOIR	9-10-70	White bass	0.07			Bluegill	0.22			
		White crappie	0.20			Bluegill	0.39			
Tennessee River Mile 257	9-10-70	Yellow bass	0.32			Bluegill	0.46			
		Yellow bass	0.40			Bluegill	0.60			
PICKWICK RESERVOIR	9-10-70	Yellow bass	0.44			Bluegill	0.80			
		Yellow bass	0.62							

Location	Collection Date	Fish Species	Mercury in Flesh (ppm)			Collection Date	Fish Species	Mercury in Flesh (ppm)		
			TVA	EPA SEWL	TMOCB			TVA	EPA SEWL	TMOCB
Tennessee River Mile 257	11-12-70	Hogsucker	0.27			12-15-70	Sauger	0.39		
		Hogsucker	0.63				Sauger	0.46		
		Longear sunfish	0.49				Sauger	0.64		
		Longear sunfish	0.52				Sauger	0.69		
		Redhorse	0.06				Sauger	0.86		
		Redhorse	0.34				Smallmouth bass	0.30		
		Redhorse	0.65				Smallmouth bass	0.33		
		Smallmouth bass	0.30				Smallmouth bass	0.35		
		Smallmouth bass	0.31				Smallmouth bass	0.39		
		Smallmouth bass	0.31				Smallmouth bass	0.40		
		Smallmouth bass	0.38				Smallmouth bass	0.52	0.53	
		Smallmouth bass	0.40				Smallmouth bass	0.57	0.75	
		Smallmouth bass	0.45	0.14			Smallmouth bass	0.69	0.43	
		Smallmouth bass	0.45				Bluegill	0.20		
		Smallmouth bass	0.45				Bluegill	0.25		
		Smallmouth bass	0.49				Carp	0.24		
		Smallmouth bass	0.49				Redhorse	0.11		
		Smallmouth bass	0.51				Redhorse	0.14		
		Smallmouth bass	0.52				Redhorse	0.19		
		Smallmouth bass	0.55		0.28		Redhorse	0.31		
Smallmouth bass	0.58			Redhorse	0.32					
Smallmouth bass	0.58			Redhorse	0.41					
Smallmouth bass	0.66			Redhorse	0.41					
Smallmouth bass	1.8			Redhorse	0.54					
Redhorse				Sauger	0.34					
Redhorse				Sauger	0.34					
Sauger				Sauger	0.41					
Sauger				Sauger	0.41					
Smallmouth bass				Sauger	0.51					
Smallmouth bass				Sauger	0.52					
Smallmouth bass				Sauger	0.76					
Smallmouth bass			0.98	Sauger	0.78					
Smallmouth bass				Sauger	0.96					
Longear sunfish				Smallmouth bass	0.39					
Longear sunfish				Smallmouth bass	0.44					
Longear sunfish				Smallmouth bass	0.47					
Longear sunfish				Smallmouth bass	0.52					
Redhorse										
Redhorse										
Redhorse										
Redhorse										

PICKWICK RESERVOIR

PICKWICK RESERVOIR

Location	Collection Date	Fish Species	Mercury in Flesh (ppm)	TVA	EPA	SEWL	TWOCB
<u>PICKWICK RESERVOIR</u>							
Tennessee River Mile 257	2-16-71	Carp	0.14				
		Carp	0.15				
		Carp	0.24				
		Carp	0.86				
		Largemouth bass	0.94				
		Largemouth bass	1.1				
		Largemouth bass	1.1				
		Longear sunfish	0.16				
		Longear sunfish	0.20				
		Longear sunfish	0.55				
		Longear sunfish	0.83				
		Mooneye	0.26				
		Mooneye	0.66				
		Mooneye	1.3				
		Redhorse	0.16				
		Redhorse	0.24				
		Redhorse	0.35				
		Smallmouth bass	0.70				
		Smallmouth buffalo	0.40				
		Smallmouth buffalo	0.43				
		Spotted gar	0.70				
		Spotted sucker	0.08				
		Spotted sucker	0.14				
		Spotted sucker	0.58				
		White bass	0.49				
		White bass	0.85				
		Yellow bass	0.30				
		Bluegill	<0.2				
		Carp	0.2				
		Carp	0.2				
		Gizzard shad	<0.2				
		Gizzard shad	<0.3				
		Golden redborse	0.5				
Tennessee River Mile 254	6-17-70	Bluegill	<0.2				
		Carp	0.2				
		Carp	0.2				
		Gizzard shad	<0.2				
		Gizzard shad	<0.3				
		Golden redborse	0.5				
Tennessee River Mile 248	4-19-72	White crappie	0.08				
		White crappie	0.15				
		White crappie	0.19				
		White crappie	0.19				
		White crappie	0.30				0.38

Location: Tennessee River Mile 257, Tennessee River Mile 254, Tennessee River Mile 248

Collection Date: 2-16-71, 6-11-70, 7-28-70, 8-13-70, 6-17-70, 4-19-72

Fish Species: Carp, Channel catfish, Gizzard shad, Largemouth bass, Longear sunfish, Mooneye, Redhorse, Smallmouth bass, Spotted gar, Spotted sucker, White bass, Yellow bass, Bluegill, Golden redborse, White crappie

Mercury in Flesh (ppm): 0.14, 0.15, 0.24, 0.86, 0.94, 1.1, 1.1, 0.16, 0.20, 0.55, 0.83, 0.26, 0.66, 1.3, 0.16, 0.24, 0.35, 0.70, 0.40, 0.43, 0.70, 0.08, 0.14, 0.58, 0.49, 0.85, 0.30, <0.2, 0.2, 0.2, <0.2, <0.3, 0.5, 0.08, 0.15, 0.19, 0.19, 0.30

TVA: [blank]

EPA: [blank]

SEWL: [blank]

TWOCB: [blank]

Location: Tennessee River Mile 240

Collection Date: 6-11-70, 7-28-70, 8-13-70

Fish Species: Carp, Channel catfish, Largemouth bass, Smallmouth buffalo, Bluegill, Crappie, Drum, Gizzard shad

Mercury in Flesh (ppm): 0.7, 1.3, 0.4, 1.7, <0.2, <0.2, 1.6, 1.8, 0.06, 0.13, 0.08, 0.10, <0.05, 0.24, 0.37, 0.39, 0.40, 0.48, 0.60, 0.85, 0.92, 1.2, 0.36, 0.68, 0.76, 0.23, 0.28, 0.32, 0.40, 0.52, 1.2, 0.52, 0.71, 0.86, 0.95, 1.0, 1.2, 0.54

TVA: [blank]

EPA: [blank]

SEWL: [blank]

TWOCB: [blank]

Location: Tennessee River Mile 240

Collection Date: 6-11-70, 7-28-70, 8-13-70

Fish Species: Carp, Channel catfish, Largemouth bass, Smallmouth buffalo, Bluegill, Crappie, Drum, Gizzard shad, Redear sunfish, Smallmouth bass, Smallmouth bass, Smallmouth bass, Smallmouth bass, Spotted sucker

Mercury in Flesh (ppm): 0.7, 1.3, 0.4, 1.7, <0.2, <0.2, 1.6, 1.8, 0.06, 0.13, 0.08, 0.10, <0.05, 0.24, 0.37, 0.39, 0.40, 0.48, 0.60, 0.85, 0.92, 1.2, 0.36, 0.68, 0.76, 0.23, 0.28, 0.32, 0.40, 0.52, 1.2, 0.52, 0.71, 0.86, 0.95, 1.0, 1.2, 0.54

TVA: [blank]

EPA: [blank]

SEWL: [blank]

TWOCB: [blank]

Location	Collection Date	Fish Species	Mercury in Flesh (ppm)			Location	Collection Date	Fish Species	Mercury in Flesh (ppm)		
			TVA	EPA SEWL	TWOCB				TVA	EPA SEWL	TWOCB
Tennessee River Mile 240	9-11-70	Bluegill	0.50			Tennessee River Mile 240	10-14-70	Largemouth bass	0.19		
		Bluegill	0.60					Largemouth bass	0.34		
PICKWICK RESERVOIR	9-11-70	Bluegill	0.75			PICKWICK RESERVOIR	10-14-70	Largemouth bass	0.41		
		Bluegill	0.90					Largemouth bass	0.43		
PICKWICK RESERVOIR	9-11-70	Bluegill	0.92			PICKWICK RESERVOIR	10-14-70	Largemouth bass	0.46	1.28	
		Carp	0.53					Largemouth bass	0.55		
PICKWICK RESERVOIR	9-11-70	Carp	0.58			PICKWICK RESERVOIR	10-14-70	Largemouth bass	0.74		
		Carp	0.66					Largemouth bass	1.5		
PICKWICK RESERVOIR	9-11-70	Carp	1.1			PICKWICK RESERVOIR	10-14-70	Largemouth bass	<0.05		
		Carp	1.2					Redhorse	0.10		
PICKWICK RESERVOIR	9-11-70	Channel catfish	0.85			PICKWICK RESERVOIR	10-14-70	Redhorse	0.09		
		Channel catfish	1.3					Smallmouth bass	0.16		
PICKWICK RESERVOIR	9-11-70	Channel catfish	0.84			PICKWICK RESERVOIR	10-14-70	Smallmouth bass	0.18		
		Drum	0.96					Smallmouth bass	0.23		
PICKWICK RESERVOIR	9-11-70	Drum	1.5			PICKWICK RESERVOIR	10-14-70	Smallmouth bass	0.39		
		Drum	1.0					Smallmouth bass	0.86		
PICKWICK RESERVOIR	9-11-70	Largemouth bass	1.1			PICKWICK RESERVOIR	10-14-70	Smallmouth bass	0.94	0.92	
		Largemouth bass	1.2					Smallmouth bass	1.7		
PICKWICK RESERVOIR	9-11-70	Largemouth bass	1.1			PICKWICK RESERVOIR	10-14-70	Smallmouth bass	0.18		
		Largemouth bass	1.1					Blue catfish	0.44		
PICKWICK RESERVOIR	9-11-70	Largemouth bass	1.2			PICKWICK RESERVOIR	10-14-70	Blue catfish	0.70		
		Largemouth bass	1.3					Carp	0.27		
PICKWICK RESERVOIR	9-11-70	Largemouth bass	2.1			PICKWICK RESERVOIR	10-14-70	Channel catfish	0.32	0.36	
		Largemouth bass	0.59					Channel catfish	0.33	0.35	
PICKWICK RESERVOIR	9-11-70	Redhorse	0.91			PICKWICK RESERVOIR	10-14-70	Channel catfish	0.37	0.59	
		Redhorse	1.3					Channel catfish	0.57		
PICKWICK RESERVOIR	9-11-70	Redhorse	0.73			PICKWICK RESERVOIR	10-14-70	Channel catfish	0.74		
		Sauger	1.0					Channel catfish	0.74		
PICKWICK RESERVOIR	9-11-70	Smallmouth bass	1.3			PICKWICK RESERVOIR	10-14-70	Sauger	0.35		
		Smallmouth bass	1.6					Sauger	0.38		
PICKWICK RESERVOIR	9-11-70	Smallmouth bass	1.6			PICKWICK RESERVOIR	10-14-70	Sauger	0.51		
		Smallmouth bass	1.8					Sauger	0.59		
PICKWICK RESERVOIR	9-11-70	Smallmouth bass	1.8			PICKWICK RESERVOIR	10-14-70	Sauger	0.60		
		White crappie	0.54					Sauger	0.62		
PICKWICK RESERVOIR	9-11-70	White crappie	0.62			PICKWICK RESERVOIR	10-14-70	Sauger	0.64		
		Bluegill	0.14					Sauger	0.70		
PICKWICK RESERVOIR	9-11-70	Bluegill	0.17			PICKWICK RESERVOIR	10-14-70	Sauger	0.96		
		Bluegill	0.28					Sauger	1.1		
PICKWICK RESERVOIR	9-11-70	Bluegill	0.35			PICKWICK RESERVOIR	10-14-70	Sauger	1.1		
		Bluegill	0.52					Sauger	1.5		
PICKWICK RESERVOIR	9-11-70	Bluegill	0.52			PICKWICK RESERVOIR	10-14-70	Sauger	1.9		
		Carp	0.19								
PICKWICK RESERVOIR	9-11-70	Carp	0.28			PICKWICK RESERVOIR	10-14-70				
		Carp	0.35								
PICKWICK RESERVOIR	9-11-70	Carp	0.47			PICKWICK RESERVOIR	10-14-70				
		Carp	0.75								
PICKWICK RESERVOIR	9-11-70	Carp	0.83			PICKWICK RESERVOIR	10-14-70				
		Carp	0.11	0.25							
PICKWICK RESERVOIR	9-11-70	Channel catfish	0.18			PICKWICK RESERVOIR	10-14-70				
		Channel catfish	0.39								



Location	Collection Date	Fish Species	Mercury in Flesh (ppm)			Collection Date	Fish Species	Mercury in Flesh (ppm)		
			TVA	SEWL	TWQCB			TVA	SEWL	TWQCB
Tennessee River Mile 240	8-18-71	Carp	0.52			10-29-71	Carp	0.52		
		Carp	0.64				Carp	0.58		
		Carp	0.76				Carp	0.74		
		Carp	0.87				Carp	0.78		
		Carp	0.88				Carp	0.90		
		Drum	1.3				Drum	0.75		
		Golden redborse	0.59				Drum	1.2		
		Largemouth bass	1.7	1.96			Drum	1.4		
		Redhorse	0.37				Largemouth bass	0.10		
		Redhorse	0.71				Largemouth bass	0.12		
		Redhorse	1.5				Largemouth bass	0.27	0.32	
		Smallmouth bass	0.37				Largemouth bass	0.52		
		Smallmouth bass	0.45				Largemouth bass	0.57		
		Smallmouth bass	0.46				Largemouth bass	0.71	0.67	
		Smallmouth bass	0.49				Largemouth bass	1.4		
		Smallmouth bass	0.80				Redhorse	0.08		
		Yellow bass	0.29				Redhorse	1.4		
		Yellow bass	0.45				Smallmouth bass	0.29		
		Yellow bass	0.45				Smallmouth bass	0.35		
		Yellow bass	0.56				Smallmouth bass	0.42		
Tennessee River Mile 240	9-27-71	Carp	0.51			11-23-71	Carp	0.52		
		Carp	0.62				Carp	0.73		
		Carp	0.66				Carp	0.75		
		Carp	0.67				Carp	0.76		
		Carp	1.2				Carp	0.76		
		Golden redborse	0.44				Largemouth bass	0.18		
		Golden redborse	1.7				Largemouth bass	0.18		
		Largemouth bass	0.17				Largemouth bass	0.19		
		Largemouth bass	0.55	0.54			Largemouth bass	0.24		
		Largemouth bass	0.96				Largemouth bass	0.27		
		Largemouth bass	1.7				Largemouth bass	0.39		
		Redhorse	0.24				Largemouth bass	0.40		
		Redhorse	1.3				Largemouth bass	0.67		
		Shorthead redborse	1.5				Largemouth bass	0.69	0.83	
		Smallmouth bass	0.15				Largemouth bass	0.79	1.08	
		Smallmouth bass	0.15				Drum	0.12		
		Smallmouth bass	0.60				Drum	0.34		
		Smallmouth bass	0.82				Drum	0.44		
		Smallmouth bass	1.2				Drum	0.52		
		Yellow bass	0.49				Drum	0.76		

PICKWICK RESERVOIR

PICKWICK RESERVOIR

Location	Collection Date	Fish Species	Mercury in Flesh (ppm)		Location	Collection Date	Fish Species	Mercury in Flesh (ppm)	
			TVA	EPA SEML				TVA	EPA SEML
Tennessee River Mile 240	12-16-71	Carp	0.37		Tennessee River Mile 240	2-15-72	Carp	0.26	
		Carp	0.52				Carp	0.55	
		Carp	0.65				Carp	0.57	
		Carp	0.68				Carp	0.61	
		Carp	0.72				Carp	0.70	
		Drum	0.41				Channel catfish	0.47	
		Drum	0.52				Channel catfish	0.70	
		Drum	0.85				Channel catfish	0.86	
		Drum	0.85				Drum	0.27	
		Largemouth bass	0.10				Largemouth bass	0.25	
		Largemouth bass	0.17				Largemouth bass	0.47	0.66
		Largemouth bass	0.17				Largemouth bass	0.47	
		Largemouth bass	0.34				Largemouth bass	0.65	
		Largemouth bass	0.45				Largemouth bass	0.70	
		Largemouth bass	0.46	0.52			Largemouth bass	0.73	0.78
		Largemouth bass	0.50	0.52			Largemouth bass	0.82	
		Largemouth bass	0.53				White bass	0.15	
		Largemouth bass	0.56				White bass	1.0	
		Largemouth bass	0.60				White crappie	0.14	
		Yellow bass	0.46				Yellow bass	0.49	
Tennessee River Mile 240	1-25-72	Carp	0.45		Tennessee River Mile 240	3-15-72	Carp	0.35	0.41
		Carp	0.48				Carp	0.47	
		Carp	0.52				Carp	0.69	
		Carp	0.69				Carp	0.91	
		Carp	1.1				Carp	0.95	
		Drum	0.48				Drum	0.91	
		Drum	0.56				Largemouth bass	0.24	
		Drum	0.58				Largemouth bass	0.29	
		Drum	0.64				Largemouth bass	0.44	
		Drum	0.64				Largemouth bass	0.46	
		Drum	0.87				Largemouth bass	0.52	
		Largemouth bass	0.38				Largemouth bass	0.54	
		Largemouth bass	0.42				Largemouth bass	0.58	0.53
		Largemouth bass	0.49				Largemouth bass	0.36	
		Largemouth bass	0.53				Redhorse	0.64	
		Largemouth bass	0.58				Redhorse	0.66	
		Largemouth bass	0.59	0.75			White bass	0.34	
		Largemouth bass	0.65	0.74			White bass	0.94	
		Largemouth bass	0.74						
		Largemouth bass	0.75						
Largemouth bass	0.86								

PICKWICK RESERVOIR

PICKWICK RESERVOIR

Location	Collection Date	Fish Species	Mercury in Flesh (ppm)	Location	Collection Date	Fish Species	Mercury in Flesh (ppm)
			TVA EPA SEVTL TMOCB				TVA EPA SEVTL TMOCB
Tennessee River Mile 240	4-13-72	Carp	0.24	Tennessee River Mile 240	6-12-72	Carp	0.62
		Carp	0.72			Carp	0.62
		Carp	0.88			Carp	0.63
		Carp	1.1			Carp	0.71
		Carp	1.2			Largemouth bass	0.29
		Drum	0.78			Largemouth bass	0.30
		Drum	1.4			Largemouth bass	0.31
		Drum	2.0			Largemouth bass	0.36
		Largemouth bass	0.24			Largemouth bass	0.47
		Largemouth bass	0.30			Largemouth bass	0.62
		Largemouth bass	0.58			Largemouth bass	0.65
		Largemouth bass	0.71			Largemouth bass	1.2
		Largemouth bass	1.1			Largemouth bass	0.71
		Largemouth bass	2.1			Largemouth bass	1.39
		Redhorse	0.54			Redhorse	0.57
		Smallmouth bass	0.25			Redhorse	0.71
		Smallmouth bass	0.29			Redhorse	1.1
		Smallmouth bass	0.32			Redhorse	1.2
		Yellow bass	0.92			Redhorse	1.3
						Smallmouth bass	0.36
		White bass	0.31				
Tennessee River Mile 240	5-19-72	Carp	0.35	Tennessee River Mile 240	7-14-72	Carp	1.0
		Carp	0.54			Carp	1.1
		Carp	0.54			Carp	1.1
		Carp	0.56			Carp	1.2
		Carp	0.57			Carp	1.4
		Largemouth bass	0.21			Drum	0.24
		Largemouth bass	0.30			Drum	0.72
		Largemouth bass	0.36			Drum	0.96
		Largemouth bass	0.57			Largemouth bass	0.40
		Largemouth bass	0.59			Largemouth bass	0.44
		Largemouth bass	0.67			Largemouth bass	0.48
		Largemouth bass	0.70			Largemouth bass	0.50
		Largemouth bass	0.71			Largemouth bass	0.66
		Largemouth bass	0.75			Largemouth bass	0.88
		Largemouth bass	0.89			Redhorse	0.88
		Redhorse	1.4				
		Sauger	2.0				
		Sauger	0.42				
		Sauger	0.52				
		Sauger	1.0				
		Sauger	1.2				
		White bass	0.28				
		White bass	0.35				
		Yellow bass	0.28				
		Yellow bass	0.36				

PICKWICK RESERVOIR

PICKWICK RESERVOIR

Location	Collection Date	Fish Species	Mercury in Flesh (ppm)		Location	Collection Date	Fish Species	Mercury in Flesh (ppm)	
			TVA	EPA SEML				TVA	EPA SEML
<u>PICKWICK RESERVOIR</u>									
Tennessee River Mile 240	9-25-72	Carp	0.52		Tennessee River Mile 224	6-11-70	Bluegill	<0.3	
		Carp	0.59				Carp	0.3	
		Carp	0.89				Channel catfish	0.6	
		Carp	0.88				Gizzard shad	0.1	
		Carp	1.3				Largemouth bass	<0.2	
		Golden redborse	0.47				Largemouth bass	1.1	
		Largemouth bass	0.37				Largemouth bass	1.4	
		Largemouth bass	0.64				Channel catfish	0.09	
		Largemouth bass	0.66				Gizzard shad	0.19	
		Largemouth bass	0.68				Largemouth bass	0.06	
		Largemouth bass	0.89	0.62			Redear sunfish	<0.05	
		Largemouth bass	1.4				Sauger	0.07	
		Largemouth bass	1.8	1.16			Smallmouth buffalo	0.42	
		Largemouth bass	2.0				Carp	<0.05	
		Largemouth bass	0.53				Largemouth bass	0.07	
		Smallmouth bass	0.66				Shorthead redborse	<0.05	
		White sucker	0.23				Smallmouth bass	0.05	
							Spotted bass	<0.05	
		<u>PICKWICK RESERVOIR</u>							
Tennessee River Mile 210	11-20-72	Carp	0.70		Tennessee River Mile 210	7-9-70	Bluegill	0.06	
		Carp	0.75				Carp	0.07	
		Carp	0.82				Carp	0.07	
		Carp	0.88				Channel catfish	0.08	
		Carp	0.99				Channel catfish	0.08	
		Carp	1.0				Channel catfish	0.09	
		Carp	1.0				Channel catfish	0.10	
		Drum	0.80				Channel catfish	0.11	
		Drum	1.1				Channel catfish	0.12	
		Drum	1.8				Channel catfish	0.12	
		Largemouth bass	0.60				Channel catfish	0.12	
		Largemouth bass	0.67				Gizzard shad	0.13	
		Largemouth bass	0.85				Largemouth bass	0.29	
		Largemouth bass	0.99				Largemouth bass	0.05	
		Largemouth bass	1.1	0.69			Largemouth bass	0.10	
		Largemouth bass	1.3	1.19			Smallmouth bass	0.08	
		Shorthead redborse	0.23				Spotted sucker	0.05	
		Smallmouth bass	0.85				Spotted sucker	0.13	
		White bass	0.56						
Yellow bass	0.62								
Yellow bass	0.81								

Location	Collection Date	Fish Species	Mercury in Flesh (ppm)		Location	Collection Date	Fish Species	Mercury in Flesh (ppm)	
			TVA	EPA				TVA	EPA
<u>PICKWICK RESERVOIR</u>									
Tennessee River Mile 210	7-28-70	Channel catfish	0.11	0.17	Tennessee River Mile 210	11-13-70	Smallmouth bass	0.39	0.26
		Largemouth bass	<0.05	0.25			Smallmouth bass	0.54	
		Largemouth bass	0.05	0.31			Smallmouth bass	0.57	
		Smallmouth bass	0.05	0.43			Yellow bass	0.76	
		Spotted sucker	<0.05	0.47			Yellow bass	0.96	
		Spotted sucker	<0.05	0.20		12-16-70	Bluegill	0.15	
	11-13-70	Bluegill	0.17	0.34			Bluegill	0.21	
		Bluegill	0.25	0.41			Bluegill	0.26	
		Bluegill	0.31	0.42			Bluegill	0.30	
		Bluegill	0.43	0.43			Bluegill	0.33	
		Bluegill	0.47	0.45			Bluegill	0.37	
		Carp	0.34	0.57			Bluegill	0.45	
		Carp	0.39	0.65			Carp	0.31	
		Carp	0.41	0.79			Carp	0.34	
		Carp	0.42	0.95			Carp	0.43	
		Carp	0.43	0.15			Carp	0.44	
		Carp	0.45	0.28			Carp	0.46	
		Carp	0.57	0.30			Carp	0.48	
		Carp	0.65	0.41			Carp	0.52	
		Carp	0.65	0.41			Carp	0.57	
		Carp	0.79	0.43			Carp	0.67	
		Carp	0.95	0.43			Carp	0.73	0.58
		Channel catfish	0.15	0.27			Channel catfish	0.28	
		Channel catfish	0.21	0.27			Channel catfish	0.73	
		Channel catfish	0.27	0.28			Drum	0.41	
		Channel catfish	0.28	0.30			Drum	0.63	
		Channel catfish	0.30	0.30			Drum	0.70	
		Channel catfish	0.30	0.30			Largemouth bass	0.26	0.32
		Channel catfish	0.31	0.30			Largemouth bass	0.55	0.65
		Channel catfish	0.41	0.31			Spotted sucker	<0.05	
		Channel catfish	0.41	0.41			Spotted sucker	0.17	
		Channel catfish	0.41	0.43			Yellow bass	0.26	
		Channel catfish	0.43	0.46			Yellow bass	0.52	
		Channel catfish	0.46	0.51			Yellow bass	0.56	
		Channel catfish	0.51	0.56		1-12-71	Carp	0.26	
		Channel catfish	0.67	0.67			Carp	0.26	
		Channel catfish	0.74	0.74			Carp	0.30	
		Largemouth bass	0.31	0.31			Carp	0.34	
		Largemouth bass	0.39	0.39			Carp	0.56	
		Largemouth bass	0.42	0.42			Carp	0.88	
		Largemouth bass	0.72	0.72			Carp	0.90	
		Largemouth bass	0.77	0.77			Drum	0.46	
		Largemouth bass	0.88	0.88			Largemouth bass	0.26	
		Largemouth bass	1.4	1.4					

Location	Collection Date	Fish Species	Mercury in Flesh (ppm)			Collection Date	Fish Species	Mercury in Flesh (ppm)		
			TVA	EPA SEWL	TWOCB			TVA	EPA SEWL	TWOCB
Tennessee River Mile 210	1-13-71	Carp	0.41			2-19-71	Sauger	1.1		
		Channel catfish	0.29				Sauger	1.2		
		Channel catfish	0.34				Shorthead redhorse	0.19		
		Channel catfish	0.42				Spotted bass	0.76		
		Drum	0.41				Spotted bass	1.1		
		Drum	0.50				Spotted sucker	0.22		
		Drum	0.54				Spotted sucker	0.61		
		Sauger	0.41							
		Sauger	0.87							
		Spotted sucker	0.10							
		Spotted sucker	0.17							
		Spotted sucker	0.24							
		Spotted sucker	0.25							
		Spotted sucker	0.30							
		Spotted sucker	0.42							
Spotted sucker	0.45									
Tennessee River Mile 210	2-11-71	Bigmouth buffalo	0.78			3-11-71	Blue catfish			0.43
		Carp	0.76				Blue catfish			0.44
		Carp	0.77				Blue catfish	0.49		
		Carp	0.77				Blue catfish	0.50		
		Carp	0.78				Blue catfish	0.50		
		Carp	0.80				Carp	0.38		0.77
		Carp	0.96				Channel catfish	0.40	0.53	
		Carp	0.51				Channel catfish	0.45	0.54	
		Largemouth bass	1.1				Channel catfish			0.47
		Largemouth bass	1.1				Channel catfish			0.64
		Longear sunfish	1.1				Channel catfish	0.70	0.41	0.67
		Longear sunfish	1.2				Channel catfish			0.72
		Yellow bass	1.2				Drum	0.76		0.81
		Bluegill	0.38				Drum	0.90		
		Redhorse	0.33				Drum	0.91		
White crappie	0.45			Drum	0.95					
White crappie	0.66									
Yellow bass	0.93									
Yellow bass	1.2									
Tennessee River Mile 210	2-18-71	Channel catfish	0.26			4-15-71	Largemouth bass		0.58	
		Channel catfish	0.36				Spotted bass			0.67
		Channel catfish	0.39				Spotted bass	0.94		0.65
		Channel catfish	0.40				Spotted bass	0.40		0.92
		Channel catfish	0.44				White crappie			
		Channel catfish	0.49							
		Channel catfish	0.49							
		Channel catfish	0.49							
		Channel catfish	0.49							
		Channel catfish	0.49							
		Channel catfish	0.49							
		Channel catfish	0.49							
		Channel catfish	0.49							
		Channel catfish	0.49							
		Channel catfish	0.49							

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Location	Collection Date	Fish Species	Mercury in Flesh (ppm)		Location	Collection Date	Fish Species	Mercury in Flesh (ppm)	
			TVA	EPA SEWL				TVA	EPA SEWL
PICKWICK RESERVOIR									
Tennessee River Mile 210	4-15-71	Largemouth bass	0.47	0.93	Tennessee River Mile 210	6-10-71	Largemouth bass	0.62	0.85
		Largemouth bass	0.53				Largemouth bass	0.67	
		Largemouth bass	1.0	1.35			Largemouth bass	1.7	2.33
		Largemouth bass	1.8	0.39			Largemouth bass		0.57
		Largemouth bass		0.57			Largemouth bass		0.69
		Largemouth bass		0.71			Largemouth bass		0.74
		Largemouth bass		1.33			Largemouth bass		0.84
		Largemouth bass		1.34			Largemouth bass		1.43
		Smallmouth bass	0.69				Smallmouth bass	1.4	2.28
		Carp	0.60				Carp		1.24
		Carp	0.63				Carp	0.24	
		Carp		0.54			Carp	0.46	
		Carp		0.76			Carp	0.54	0.61
Drum		1.5	Drum	0.68	0.89				
Drum			Drum		0.71				
Drum			Drum		0.23				
Largemouth bass		0.60	Largemouth bass	0.12					
Largemouth bass		0.74	Largemouth bass	0.14					
Largemouth bass		0.76	Redhorse	0.63					
Largemouth bass		0.82	Redhorse		0.29				
Largemouth bass		1.1	Redhorse		0.55				
Largemouth bass			Smallmouth bass	0.20					
Largemouth bass		0.87	Largemouth bass	0.66	0.94				
Largemouth bass		0.99	Largemouth bass	1.9	1.75				
Largemouth bass		1.21	Largemouth bass		0.77				
Largemouth bass		1.33	Largemouth bass		1.73				
Largemouth bass		1.70	Smallmouth bass						
Largemouth bass		1.88	Smallmouth bass	0.21					
Largemouth bass			Yellow bass		0.22				
Carp		0.55	Carp		1.32				
Carp		0.90	Carp		0.48				
Carp			Carp	0.39	0.44				
Carp			Carp	0.44	0.44				
Carp		0.41	Carp		0.44				
Carp		0.66	Carp		0.60				
Carp		0.82	Carp		0.67				
Drum			Drum						
Drum		0.76	Drum						
Drum		0.94	Drum						
Drum		1.1	Drum						
Drum			Drum						
Drum			Drum						
Drum			Drum						

PICKWICK RESERVOIR

Location	Collection Date	Fish Species	Mercury in Flesh (ppm)			Location	Collection Date	Fish Species	Mercury in Flesh (ppm)		
			TVA	EPA SEWL	TWCCB				TVA	EPA SEWL	TWCCB
Tennessee River Mile 210	8-17-71	Drum	0.31			Tennessee River Mile 210	10-28-71	Largemouth bass	0.24	0.27	
		Drum	0.63					Largemouth bass	0.35	0.40	
		Drum	0.71					Largemouth bass	0.41		
		Drum			0.37			Largemouth bass	0.46		
		Drum			0.89			Largemouth bass			0.13
		Largemouth bass	0.20	0.15				Largemouth bass			0.14
		Smallmouth bass	0.27	0.25	0.19			Largemouth bass			0.18
		Smallmouth bass		1.18	0.87			Largemouth bass			1.26
		Spotted bass	0.16					Largemouth bass			1.67
		Spotted bass	0.22					Smallmouth bass	0.21	1.48	1.88
		Spotted bass									
		Carp	0.51		0.14			Carp	0.40		
		Carp	0.52		0.18			Carp	0.68		
		Carp	0.69					Carp	0.82		0.67
		Carp			0.54			Carp			0.75
Drum	0.44		0.86	Drum	0.30						
Drum	0.89			Drum	0.46						
Drum				Drum			0.36				
Drum				Drum			0.77				
Drum				Drum			1.84				
Largemouth bass	0.17		0.68	Largemouth bass	0.40						
Largemouth bass	0.22	0.23	0.79	Largemouth bass	0.62	0.64					
Largemouth bass	0.44	0.63	0.86	Largemouth bass	1.7	1.48					
Largemouth bass				Largemouth bass			0.33				
Largemouth bass			0.21	Largemouth bass			0.51				
Largemouth bass			0.28	Largemouth bass			0.56				
Largemouth bass		0.43	0.38	Largemouth bass			0.61				
Largemouth bass		1.54	1.23	Smallmouth bass	0.34						
Smallmouth bass	0.53			White bass	0.78		0.06				
Smallmouth bass	0.62		0.21	Yellow bass							
Spotted bass				Carp	0.46		0.46				
Carp	0.38			Carp	0.47		0.82				
Carp	0.60			Carp	0.59						
Carp			0.35	Carp							
Carp			0.79	Drum	0.66						
Drum	0.56		0.86	Drum	0.69		0.34				
Drum	0.59			Drum			0.54				
Drum	1.3			Drum			0.71				
Drum			1.35								
Drum			1.62								

PICKWICK RESERVOIR

Location	Collection Date	Fish Species	Mercury in Flesh (ppm)		Location	Collection Date	Fish Species	Mercury in Flesh (ppm)	
			TVA	EPA SEWL				TVA	EPA SEWL
<u>PICKWICK RESERVOIR</u>									
Tennessee River Mile 210	12-17-71	Largemouth bass	0.22	0.85	Tennessee River Mile 210	2-17-72	Largemouth bass	0.18	0.10
		Largemouth bass	0.68	1.18			Largemouth bass	0.20	0.23
		Largemouth bass	1.1				Largemouth bass	0.34	0.39
		Largemouth bass		0.22			Largemouth bass	1.4	1.23
		Largemouth bass		0.40			Largemouth bass		
		Largemouth bass		0.60			Largemouth bass		
		Largemouth bass		1.02			Largemouth bass		
		Smallmouth bass	0.25	0.95			Largemouth bass		
		Yellow bass	0.70				Largemouth bass	0.38	0.30
		Yellow bass		0.71			Largemouth bass	1.15	0.87
			Largemouth bass		0.18				
<u>PICKWICK RESERVOIR</u>									
Tennessee River Mile 210	1-20-72	Carp	0.43		Tennessee River Mile 210	3-17-72	Carp	0.53	0.59
		Carp	0.69				Carp	0.88	0.73
		Drum		0.63			Carp		0.97
		Largemouth bass	0.19	0.31			Carp	0.49	1.16
		Largemouth bass	0.21	0.23			Drum		
		Largemouth bass					Largemouth bass	0.26	
		Carp	0.45				Largemouth bass	0.27	
		Carp	0.74				Largemouth bass	0.60	
		Carp	0.84				Largemouth bass	0.85	1.32
		Drum		1.89			Largemouth bass	1.5	1.73
Tennessee River Mile 210	1-24-72	Drum		1.92	Tennessee River Mile 210	4-13-72	Largemouth bass	0.14	0.14
		Largemouth bass	0.50				Largemouth bass	0.16	0.16
		Largemouth bass	0.58				Largemouth bass	0.20	0.20
		Largemouth bass	0.91				Largemouth bass	0.57	0.42
		Largemouth bass		1.76			Carp	0.40	0.40
		Smallmouth bass		1.37			Carp	0.46	0.46
		Smallmouth bass		0.22			Carp		
		Smallmouth bass		0.58			Carp		
		Smallmouth bass		0.68			Carp		
		Smallmouth bass		0.68			Drum		
<u>PICKWICK RESERVOIR</u>									
Tennessee River Mile 210	2-17-72	Bluegill	0.34		Tennessee River Mile 210	4-13-72	Largemouth bass	0.28	0.26
		Bluegill		0.31			Largemouth bass	0.88	0.88
		Carp	0.13				Largemouth bass	1.2	1.25
		Carp	0.45				Largemouth bass	2.0	0.27
		Carp	0.45				Largemouth bass		
		Carp		0.65			Largemouth bass		
		Carp		0.91			Largemouth bass		
		Channel catfish		0.78			Largemouth bass		
		Drum		0.77			Largemouth bass		
		Drum					Largemouth bass		
			Yellow bass		0.72	0.61			
			Yellow bass			0.49			

Location	Collection Date	Fish Species	Mercury in Flesh (ppm)			Location	Collection Date	Fish Species	Mercury in Flesh (ppm)		
			TVA	EPA SEML	TWOCB				TVA	EPA SEML	TWOCB
Tennessee River Mile 210	5-18-72	Carp	0.33		0.28	Tennessee River Mile 210	9-27-72	Carp	0.34		0.41
		Carp	0.58		0.50			Carp	0.78		0.54
		Carp	0.70					Carp	0.87		
		Carp						Carp			
		Largemouth bass	0.34	0.32				Drum	0.90		0.70
		Largemouth bass	0.36	0.37				Drum	2.2		
		Largemouth bass			0.35			Drum	0.59	0.35	0.36
		Largemouth bass		0.77	0.75			Largemouth bass	1.9	1.53	0.51
		Smallmouth bass		0.53	0.53			Largemouth bass		0.35	0.89
		Carp	0.51					Smallmouth bass		0.58	0.37
		Carp	0.68					Carp	0.67		0.32
		Carp	0.75		0.42			Carp	0.72		0.32
		Carp			0.47			Carp	0.85		0.36
		Carp			0.74			Carp			0.19
		Drum						Drum			
Tennessee River Mile 210	6-14-72	Largemouth bass	0.34	0.35	0.33	Tennessee River Mile 210	11-16-72	Largemouth bass	0.40	0.35	0.15
		Largemouth bass	0.36		0.42			Largemouth bass	0.52	0.46	0.75
		Largemouth bass	0.36		0.49			Largemouth bass		0.27	
		Largemouth bass	0.56	0.52	0.52			Largemouth bass		1.24	
		Largemouth bass		0.34				Smallmouth bass	0.37		
		Largemouth bass		0.59				Smallmouth bass	0.54		
		Largemouth bass	0.89		0.62			Smallmouth bass	1.3		
		Smallmouth bass						Smallmouth bass			0.14
		Carp	0.22					Smallmouth bass			0.67
		Carp	0.80					Smallmouth bass			1.00
		Carp	0.80					Smallmouth bass			
		Carp			0.21			Smallmouth bass			
		Drum	0.66		0.65			Smallmouth bass			
		Drum			0.75			Smallmouth bass			
		Largemouth bass	0.24	0.15				Smallmouth bass			
Largemouth bass		0.18		Smallmouth bass							
Largemouth bass		0.27		Smallmouth bass							
Redhorse	0.34		0.76	Smallmouth bass							
Smallmouth bass	0.27			Smallmouth bass							
Smallmouth bass	0.36	0.27		Smallmouth bass							
Smallmouth bass	0.76			Smallmouth bass							
Smallmouth bass			0.21	Smallmouth bass							
Smallmouth bass			0.21	Smallmouth bass							
Smallmouth bass			0.23	Smallmouth bass							

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Location	Collection Date	Fish Species	Mercury in Flesh (ppm)		Location	Collection Date	Fish Species	Mercury in Flesh (ppm)	
			TVA	EPA SEML				TVA	EPA SEML
<u>PICKWICK RESERVOIR</u>									
<u>(BEAR CREEK ARM)</u>									
Bear Creek Mile 9.5	4-21-72	White crappie	0.05	0.26	Yellow Creek Mile 5-6	1-29-71	Bluegill	0.10	
		White crappie	0.10				Bluegill	0.15	
		White crappie	0.11				Carp	0.11	
		White crappie	0.12				Carp	0.17	
		White crappie	0.13				Carp	0.17	
							Carp	0.18	
							Carp	0.22	
							Largemouth bass	0.07	
							Largemouth bass	0.11	
							Largemouth bass	0.13	
							Largemouth bass	0.16	
							Largemouth bass	0.19	
							Largemouth bass	0.19	
							Largemouth bass	0.21	
							Largemouth bass	0.21	1.58
							Largemouth bass	0.22	
							Largemouth bass	0.26	
							Largemouth bass	0.29	
							Largemouth bass	0.30	
							Largemouth bass	0.30	
							Largemouth bass	0.52	
							Largemouth bass	0.57	0.70
							Redear sunfish	0.11	
							Redear sunfish	0.12	
							Spotted sucker	0.05	
							Spotted sucker	0.06	
							Spotted sucker	0.14	
							Spotted sucker	0.17	
							Spotted sucker	0.21	
							Yellow bass	0.54	
							Yellow bass	0.96	
<u>BEAR CREEK RESERVOIR</u>									
Bear Creek Mile 77-81	7-21-70	Black crappie	<0.05				Black crappie	<0.05	
		Black crappie	<0.05				Black crappie	<0.05	
		Carp	<0.05				Carp	<0.05	
		Carp	<0.05				Carp	<0.05	
		Channel catfish	<0.05				Channel catfish	<0.05	
		Channel catfish	<0.05				Channel catfish	<0.05	
		Largemouth bass	<0.05				Largemouth bass	<0.05	
		River carpsucker	<0.05				River carpsucker	<0.05	

Location	Collection Date	Fish Species	Mercury in Flesh (ppm)		Location	Collection Date	Fish Species	Mercury in Flesh (ppm)	
			TVA	EPA SEWL				TVA	EPA SEWL
<u>KENTUCKY RESERVOIR</u>									
Tennessee River Mile 206.5	7-22-70	Bluegill	<0.05		Tennessee River Mile 206.5	11-17-70	Smallmouth buffalo	0.19	
		Carp	<0.05				Smallmouth buffalo	0.21	
		Channel catfish	<0.05				Smallmouth buffalo	0.44	
		Channel catfish	<0.05				Smallmouth buffalo	0.47	
		Gizzard shad	0.07				Smallmouth buffalo	0.50	
		Gizzard shad	0.08				Walleye	0.40	
		Largemouth bass	<0.05				Walleye	0.66	0.36
		Largemouth bass	0.22				Walleye	0.97	
		Largemouth bass					Walleye	1.2*	0.89
		Largemouth bass					White bass	0.52	
		Largemouth bass	0.55				White bass	0.66	
		Largemouth bass	0.43				White bass	0.81	
		Largemouth bass	0.26				White bass	1.0*	
		Largemouth bass	0.26				White bass	1.0*	
		Largemouth bass	0.44				White crappie	0.34	
		Largemouth bass	0.51				Yellow bass	0.48	
		Largemouth bass	0.14				Yellow bass	0.67	
		Largemouth bass	0.15				Yellow bass	0.68	
		Largemouth bass	0.16				Sauger	0.27	
		Largemouth bass	0.26				Sauger	0.29	
		Largemouth bass	0.29				Sauger	0.29	
		Largemouth bass	0.70*				Sauger	0.30	
		Largemouth bass	0.78*				Sauger	0.30	
		Largemouth bass	0.88				Sauger	0.30	
		Largemouth bass	0.95				Sauger	0.31	
		Largemouth bass	0.98				Sauger	0.33	
		Largemouth bass	0.27				Sauger	0.34	0.27
		Redhorse	0.29				Sauger	0.35	
		Redhorse	0.42				Sauger	0.35	
		Sauger	0.09				Sauger	0.36	
		Sauger	0.15				Sauger	0.36	
		Sauger	0.21				Sauger	0.36	
		Sauger	0.25				Sauger	0.36	
		Sauger	0.28				Sauger	0.36	
		Sauger	0.34				Sauger	0.37	
		Sauger	0.37				Sauger	0.39	0.17
		Sauger	0.39				Sauger	0.41	
		Sauger	0.43				Sauger	0.42	
		Sauger	0.65				Sauger	0.42	0.29
		Sauger					Sauger	0.42	
		Sauger					Sauger	0.42	
		Sauger					Sauger	0.43	
		Sauger					Sauger	0.46	
		Sauger					Sauger	0.47	
		Sauger					Sauger	0.47	

\*Average of duplicate samples.



Location	Collection Date	Fish Species	Mercury in Flesh (ppm)			Location	Collection Date	Fish Species	Mercury in Flesh (ppm)		
			TVA	EPA SEWL	TWOCB				TVA	EPA SEWL	TWOCB
Tennessee River Mile 157	4-21-71	Largemouth bass	0.52	0.57		Tennessee River Mile 157	6-10-71	Channel catfish	0.30		
		Largemouth bass	0.74					Channel catfish	0.37		0.36
		Largemouth bass	0.86					Channel catfish			0.39
		Largemouth bass	1.1					Channel catfish			0.44
		Largemouth bass	1.9	2.11	0.60			Channel catfish			0.60
		Largemouth bass			0.70			Channel catfish			0.70
		Largemouth bass			0.99			Channel catfish			0.72
		Largemouth bass			1.29			Smallmouth buffalo			1.32
		Largemouth bass			1.31						
	5-26-71	Carp	0.44			Tennessee River Mile 157	6-14-71	Smallmouth buffalo			0.23
		Carp	0.69					Smallmouth buffalo			0.38
		Carp			0.47			Smallmouth buffalo			0.92
		Carp			0.48			White crappie			0.64
		Carp			0.55			White crappie			0.67
		Carp						White crappie			0.74
6-10-71	Largemouth bass	0.47			Tennessee River Mile 157	6-15-71	Carp	0.43		0.29	
	Largemouth bass	0.69	1.45				Carp			0.52	
	Largemouth bass	0.75	1.55				Carp				
	Largemouth bass	0.97					Drum	0.39		0.43	
	Largemouth bass	1.1		0.36			Drum	0.66		1.09	
	Largemouth bass			1.04			Drum	1.4		1.90	
	Largemouth bass			1.07			Drum				
	Largemouth bass			1.47			Drum				
	Largemouth bass						Drum				
	Largemouth bass						Largemouth bass	1.0	1.39	0.49	
	Redhorse	0.57					Largemouth bass	1.3	1.38	0.44	
	Redhorse	0.62					Largemouth bass			0.55	
	Redhorse	0.99					Largemouth bass				
	Redhorse			0.85			Largemouth bass				
	Yellow bass			1.18			Redhorse	1.3	2.24		
			0.91	Sauger							
6-10-71	Blue catfish		0.36		Tennessee River Mile 157	7-21-71	Spotted bass	0.64		0.66	
	Bluegill	0.26					Spotted bass	0.85		1.00	
	Bluegill	0.40					White crappie			1.37	
	Bluegill	0.50					Carp	0.27		0.66	
	Bluegill			0.28			Carp	0.66			
	Bluegill			0.41			Carp			0.40	
	Bluegill			0.44			Carp			1.00	
	Bluegill			0.51			Carp			1.37	
	Bluegill			0.52			Drum	0.40			
	Bluegill			0.53			Drum	1.2		1.12	
				Drum	2.5		1.37				

KENTUCKY RESERVOIR

KENTUCKY RESERVOIR

Location	Collection Date	Fish Species	Mercury in Flesh (ppm)		Location	Collection Date	Fish Species	Mercury in Flesh (ppm)	
			TVA	EPA SEWL				TVA	EPA SEWL
<u>KENTUCKY RESERVOIR</u>									
Tennessee River Mile 157	7-21-71	Largemouth bass	0.38	1.07	Tennessee River Mile 157	9-28-71	Largemouth bass	0.27	0.50
		Largemouth bass	0.92	1.67			Largemouth bass	0.49	0.51
		Largemouth bass	1.0	1.67			Largemouth bass	0.82	0.63
		Largemouth bass	1.7	0.84			Largemouth bass	0.83	0.99
		Largemouth bass	2.00	2.00			Largemouth bass	1-3	1.21
		Largemouth bass	0.92	0.96			Largemouth bass	1.20	0.67
		Spotted bass					Largemouth bass	0.91	0.50
		Spotted bass					Largemouth bass	1.18	0.51
		Spotted bass					Largemouth bass	0.91	0.63
		Spotted bass					Largemouth bass	1.18	0.99
Tennessee River Mile 157	8-23-71	Carp	0.22	0.12	Tennessee River Mile 157	10-27-71	Carp	0.20	0.30
		Carp	0.28	0.23			Carp	0.39	0.45
		Carp		0.25			Carp		0.29
		Carp		0.25			Carp		0.43
		Drum	0.34				Drum	0.41	
		Drum	0.41				Drum	0.47	
		Drum	0.44				Drum		
		Drum		0.12			Drum		
		Drum		0.38			Drum		
		Drum					Largemouth bass	0.23	0.59
Tennessee River Mile 157	9-28-71	Largemouth bass	0.29	0.84	Tennessee River Mile 157	11-24-71	Largemouth bass	0.16	0.64
		Largemouth bass	0.57	1.27			Largemouth bass	0.59	0.31
		Largemouth bass	0.85				Largemouth bass	0.52	0.38
		Largemouth bass	0.90	0.84			Largemouth bass	0.81	
		Largemouth bass	0.92	1.27			Largemouth bass	1.02	
		Largemouth bass					Largemouth bass		
		Largemouth bass					Largemouth bass		
		Largemouth bass					Largemouth bass		
		Largemouth bass					Largemouth bass		
		Largemouth bass					Redhorse		
Tennessee River Mile 157	9-28-71	Carp	0.22	0.31	Tennessee River Mile 157	11-24-71	Carp	0.16	0.64
		Carp	0.35	0.33			Carp	0.59	0.31
		Carp		0.53			Carp		0.38
		Carp					Carp		
		Drum	0.50				Drum	0.52	
		Drum	0.51				Drum	0.54	
		Drum	0.65				Drum	0.85	
		Drum		0.23			Drum		
		Drum		0.53			Drum		
		Drum					Drum		



Location	Collection Date	Fish Species	Mercury in Flesh (ppm)			Location	Collection Date	Fish Species	Mercury in Flesh (ppm)		
			TVA	EPA SEWL	TWQCB				TVA	EPA SEWL	TWQCB
Tennessee River Mile 157	4-12-72	Carp	0.18		0.46	Tennessee River Mile 157	6-13-72	Largemouth bass	0.24		0.21
		Carp	0.43		0.52			Largemouth bass	0.26		0.23
		Carp			0.72			Largemouth bass	0.26		0.33
		Carp	0.50					Largemouth bass			0.28
		Drum	0.74					Largemouth bass			0.41
		Drum			0.89			White bass	0.30		
		Largemouth bass	0.39					White bass	2.6		0.20
		Largemouth bass	0.47	0.53				Carp	0.35		0.25
		Largemouth bass	0.53	0.63				Carp	0.46		0.50
		Largemouth bass	1.2					Carp			
		Largemouth bass	1.2		0.25			Drum	0.24		
		Largemouth bass		0.66	0.55			Drum	0.38		
		Largemouth bass			0.59			Drum	0.88		
		Largemouth bass		0.91	0.66			Drum			0.17
								Drum			0.19
Tennessee River Mile 157	5-16-72	Carp	0.29	0.32		Tennessee River Mile 157	7-12-72	Largemouth bass	0.20		0.16
		Carp	0.62	0.69				Largemouth bass	0.30		0.17
		Carp	0.15		0.19			Largemouth bass	0.33	0.25	0.18
		Carp	0.48		0.49			Largemouth bass	0.38	0.37	0.36
		Carp			0.55			Largemouth bass			0.36
		Redhorse	0.16					Largemouth bass	0.30		0.43
		Redhorse	0.31					Striped bass			
		Redhorse	0.51					Carp	0.44		0.26
		Redhorse			0.15			Carp	0.92		0.34
		Redhorse			0.68			Carp			0.44
		Spotted bass			0.94			Carp			
		Striped bass	0.36					Drum	2.6		0.32
		White crappie	0.69		0.20			Drum			0.44
		White crappie						Kentucky bass			
		Tennessee River Mile 157	6-13-72	Carp	0.36				0.27	Tennessee River Mile 157	9-26-72
Carp	0.47				0.34	Largemouth bass	0.47		0.18		
Carp					0.38	Largemouth bass	0.47	0.39	0.18		
Carp						Largemouth bass	0.69		0.18		
Drum	0.20					Largemouth bass	1.5	1.31	0.18		
Drum	0.24					Largemouth bass		0.15	0.18		
Drum	0.24				0.06	Largemouth bass			0.18		
Drum					0.29	Largemouth bass			0.06		
Drum						Largemouth bass					
Drum						Largemouth bass					
Drum						Largemouth bass					
Drum						Largemouth bass					
Drum						Largemouth bass					
Drum						Largemouth bass					

KENTUCKY RESERVOIR

KENTUCKY RESERVOIR

Location	Collection Date	Fish Species	Mercury in Flesh (ppm)			Location	Collection Date	Fish Species	Mercury in Flesh (ppm)		
			TVA	EPA SEWL	TWOCB				TVA	EPA SEWL	TWOCB
<u>KENTUCKY RESERVOIR</u>											
Tennessee River Mile 157	11-15-72	Carp	0.32			Tennessee River Mile 105	12-1-70	Carp	0.17	0.48	
		Carp	0.46					Carp	0.50	0.47	
		Carp	0.47					Carp	0.54	0.53	
		Carp		0.38				Carp	0.56	0.56	
		Drum	0.41					Carp	0.56	0.76	
		Drum		0.20				Carp	0.67	0.42	
		Largemouth bass	0.20					Channel catfish	0.15	0.33	
		Largemouth bass	0.24					Channel catfish	0.18	0.15	
		Largemouth bass	0.33	0.54				Largemouth bass	0.31	0.58	
		Largemouth bass	0.43					Largemouth bass	0.59	0.65	
		Largemouth bass	1.8	1.96				Largemouth bass	0.66	0.44	
		Largemouth bass	0.45					Largemouth bass	0.70	0.67	
		Largemouth bass		0.24				Largemouth bass	0.73	0.90	
		Largemouth bass		0.30				Largemouth bass	0.74	0.59	
		Largemouth bass		0.72				Largemouth bass	0.76	0.82	
Redhorse	0.15			Largemouth bass	0.78	0.82					
Redhorse		0.45		Largemouth bass	0.95	1.33					
Spotted bass		0.18		Largemouth bass	0.96	0.88					
Spotted bass		0.44		Largemouth bass	1.1	1.00					
				Spotted sucker	0.14	0.82					
				Spotted sucker	0.33	0.35					
				Spotted sucker	0.41	0.48					
<u>KENTUCKY RESERVOIR</u>											
Tennessee River Mile 146	6-15-70	Bluegill	<0.05			Tennessee River Mile 105	2-17-71	Black crappie	0.23		
		Bluegill	<0.05					Black crappie	0.37		
		Carp	0.07					Black crappie	0.51		
		Carp		0.05				Black crappie	0.60		
		Gizzard shad	<0.05					Bluegill	0.16		
		Gizzard shad	<0.05					Bluegill	0.46		
		Largemouth bass	<0.05					Bluegill	0.49		
		Largemouth bass	<0.05					Bluegill	0.56		
								Bluegill	0.74		
								Bluegill	1.2		
Tennessee River Mile 105	12-1-70	Carp	0.12	0.24		Tennessee River Mile 105	12-1-70	Carp	0.40		
		Carp	0.25	0.28				Carp	0.51		
		Carp	0.32	0.32				Carp	0.57		
		Carp	0.36	0.46				Carp	0.85		
		Carp	0.42	0.44				Largemouth bass	0.24		
		Carp	0.43	0.46				Largemouth bass	0.62		
		Carp	0.45	0.64				Largemouth bass	0.72		
		Carp	0.45	0.64				Largemouth bass	0.79		
		Carp	0.46	0.50				Largemouth bass	0.96		
		Carp	0.47	0.46				Largemouth bass	1.0		

Location	Collection Date	Fish Species	Mercury in Flesh (ppm)		Location	Collection Date	Fish Species	Mercury in Flesh (ppm)	
			TVA	EPA				TVA	EPA
<u>KENTUCKY RESERVOIR</u>									
Tennessee River Mile 105	2-17-71	Redear sunfish	0.52		Tennessee River Mile 60	12-17-70	Largemouth bass	0.25	
		Redear sunfish	0.59				Largemouth bass	0.31	
		Smallmouth buffalo	0.44				Largemouth bass	0.34	
		Smallmouth buffalo	0.70				Largemouth bass	0.42	
		Smallmouth buffalo	0.72				Largemouth bass	0.43	
		Spotted sucker	0.35				Largemouth bass	0.43	
		Spotted sucker	0.36				Largemouth bass	0.51	0.54
		Spotted sucker	0.60				Largemouth bass	0.56	
		Spotted sucker	0.66				Largemouth bass	0.56	
		Spotted sucker	0.78				Largemouth bass	0.57	0.60
		White crappie	0.82				Largemouth bass	0.58	
		White crappie	0.31				Largemouth bass	0.62	
		White crappie	0.33				Largemouth bass	0.64	
		White crappie	0.38				Largemouth bass	0.64	
		White crappie	0.41				Largemouth bass	0.66	
		White crappie	0.41				Largemouth bass	0.70	
		White crappie	0.53				Largemouth bass	0.76	0.62
Tennessee River Mile 86	6-16-70	Bluegill	<0.05				Spotted sucker	0.09	
		Channel catfish	<0.05				Spotted sucker	0.27	
		Channel catfish	<0.05				Spotted sucker	0.28	
		Gizzard shad	<0.05				Spotted sucker	0.31	
		Gizzard shad	<0.05				Spotted sucker	0.41	
		Largemouth bass	<0.05				White crappie	0.24	
		Smallmouth buffalo	<0.05				White crappie	0.31	
		Smallmouth buffalo	<0.05				Bluegill	0.26	
Tennessee River Mile 60	12-17-70	Carp	0.15				Bluegill	0.32	
		Carp	0.23				Bluegill	0.38	
		Carp	0.24				Bluegill	0.38	
		Carp	0.26				Bluegill	0.43	
		Carp	0.30				Carp	0.25	
		Carp	0.31				Carp	0.47	
		Carp	0.34				Carp	0.55	
		Carp	0.39				Carp	0.55	
		Carp	0.45				Carp	0.72	
		Drum	0.33				Channel catfish	0.27	
		Drum	0.70				Channel catfish	0.27	
		Drum	0.77				Channel catfish	0.35	
		Drum	0.70				Channel catfish	0.37	
		Drum	0.77				Channel catfish	0.38	
		Drum	0.92				Drum	0.74	
		Drum					Drum	0.47	
		Drum					Drum	0.65	

Location	Collection Date	Fish Species	Mercury in Flesh (ppm)		Location	Collection Date	Fish Species	Mercury in Flesh (ppm)	
			TVA	EPA SEWL				TVA	EPA SEWL
Tennessee River Mile 60	2-18-71	Largemouth bass	0.49		Tennessee River Mile 60	5-26-71	Largemouth bass	0.44	0.83
		Largemouth bass	0.52				Largemouth bass	0.55	1.45
		Largemouth bass	0.54				Largemouth bass	0.80	
		Largemouth bass	0.64				Largemouth bass	0.91	
		Largemouth bass	0.75				Largemouth bass		0.43
		Skipjack herring	0.12				Largemouth bass		0.72
		Skipjack herring	0.64				Largemouth bass		0.91
		Spotted sucker	0.25				Largemouth bass		0.97
		Spotted sucker	0.29				Yellow bass	0.63	
		Spotted sucker	0.35				Yellow bass		0.43
		Spotted sucker	0.37				Blue catfish		0.34
		Spotted sucker	0.71				Blue catfish		0.36
		White crappie	0.17				Blue catfish		0.61
		White crappie	0.38				Blue catfish		0.65
		White crappie	0.40				Bluegill	0.10	
	4-28-71	Carp	0.63		Bluegill	0.12			
		Carp	0.66		Bluegill		0.12		
		Carp		0.56	Bluegill		0.14		
		Carp		0.56	Bluegill		0.24		
		Carp		0.69	Bluegill		0.29		
Drum		0.42		Bluegill		0.32			
Drum		0.44		Bluegill		0.48			
Drum		0.58		Channel catfish	0.31				
Drum			0.32	Channel catfish	0.39				
Drum			0.67	Channel catfish	0.40				
Largemouth bass		0.45		Smallmouth buffalo	0.12				
Largemouth bass		0.48		Smallmouth buffalo	0.13				
Largemouth bass		0.64	0.60	Smallmouth buffalo		0.18			
Largemouth bass		0.83	0.71	Smallmouth buffalo		0.22			
Largemouth bass			0.58	Smallmouth buffalo		0.24			
Largemouth bass		1.00	Smallmouth buffalo		0.26				
Largemouth bass			Smallmouth buffalo		0.37				
Largemouth bass	0.79		Smallmouth buffalo		0.37				
Spotted bass			Catfish		0.42				
Spotted bass			Catfish		0.51				
5-26-71	Carp	0.11		White bass		0.64			
	Carp	0.40		White crappie		0.15			
	Carp		0.38	White crappie		0.30			
	Carp		0.52	White crappie		0.31			
	Carp		0.87	White crappie		0.41			
	Drum	0.28		White crappie		0.60			
	Drum	0.31		White crappie		1.01			
	Drum	0.92							

KENTUCKY RESERVOIR

KENTUCKY RESERVOIR

Location	Collection Date	Fish Species	Mercury in Flesh (ppm)		Location	Collection Date	Fish Species	Mercury in Flesh (ppm)		
			TVA	EPA SEWL				TVA	EPA SEWL	
Tennessee River Mile 60	6-15-71	Carp	0.24	0.23	Tennessee River Mile 60	8-24-71	Carp	0.14	0.18	
		Carp	0.56	0.36			Carp	0.18	0.18	
		Carp		0.36			Carp		0.18	
		Carp		0.38			Carp		0.18	
		Drum	0.43				Drum	0.08	0.12	
		Drum	0.53				Drum	0.12	0.31	
		Drum	0.54				Drum	0.31		
		Drum		0.23			Drum		0.23	
		Drum		0.57			Drum		0.26	
		Largemouth bass	0.36				Largemouth bass	0.15		
		Largemouth bass	0.45				Largemouth bass	0.36		
		Largemouth bass	0.59	0.72			Largemouth bass	0.40	0.46	
		Largemouth bass	1.2	1.27			Largemouth bass	0.54	0.60	
		Largemouth bass		0.70			Largemouth bass		0.14	
	Largemouth bass		1.08	Largemouth bass		0.14				
	Smallmouth bass			Largemouth bass		0.62				
	Striped bass	0.56		Largemouth bass		0.67				
	Striped bass		0.68	Yellow bass	0.17					
	Striped bass		0.85	Yellow bass		0.03				
	Tennessee River Mile 60	7-22-71	Carp	0.14	0.13	Tennessee River Mile 60	9-29-71	Carp	0.25	0.32
			Carp	0.18	0.20			Carp	0.37	0.35
			Carp		0.30			Carp		0.55
			Carp					Carp		
			Drum	0.15				Drum	0.13	
			Drum	0.18				Drum	0.33	
			Drum	0.20				Drum	0.38	
			Drum		0.11			Drum		0.32
			Drum		0.26			Drum		0.75
Largemouth bass			0.40	0.39	Largemouth bass			0.15		
Largemouth bass			0.47		Largemouth bass			0.29		
Largemouth bass			1.9	2.09	Largemouth bass			0.39	0.42	
Largemouth bass				1.04	Largemouth bass			0.54	0.74	
Largemouth bass				1.10	Largemouth bass				0.19	
Largemouth bass			Largemouth bass		0.31					
Spotted bass	0.16		Largemouth bass		0.31					
Spotted bass	0.18		Largemouth bass		1.01					
Spotted bass			Smallmouth bass	0.19	1.12					
Spotted bass			Smallmouth bass		0.14					

KENTUCKY RESERVOIR

KENTUCKY RESERVOIR

Location	Collection Date	Fish Species	Mercury in Flesh (ppm)		Location	Collection Date	Fish Species	Mercury in Flesh (ppm)	
			TVA	EPA SEWL				TVA	EPA SEWL
Tennessee River Mile 60	10-28-71	Carp	0.32		Tennessee River Mile 60	12-21-71	Carp	0.26	
		Carp	0.39				Carp	0.38	
		Carp	0.44				Carp	0.38	
		Carp		0.41			Drum	0.33	
		Drum		0.40			Drum	0.63	
		Drum	1.6	0.58			Largemouth bass	0.12	0.11
		Drum		1.07			Largemouth bass	0.60	0.65
		Largemouth bass	0.10				Largemouth bass	0.75	0.13
		Largemouth bass	0.12				Largemouth bass		0.72
		Largemouth bass	0.61	0.71			Largemouth bass		0.13
	Largemouth bass	0.64	0.62	Largemouth bass		0.74			
	Largemouth bass			Largemouth bass					
	Largemouth bass		0.14	Largemouth bass		0.07			
	Largemouth bass		0.22	Largemouth bass		0.13			
	Largemouth bass		0.40	Largemouth bass		0.74			
	Largemouth bass		1.12	Largemouth bass		0.56			
	Largemouth bass		0.52	Spotted bass	0.21				
	Largemouth bass		0.55	Spotted bass	0.30				
	Largemouth bass		0.78	Spotted bass					
	Redhorse		0.06						
Tennessee River Mile 60	11-24-71	Carp	0.28		Tennessee River Mile 60	1-19-72	Carp	0.24	
		Carp	0.49				Carp	0.40	
		Carp	0.70				Carp		0.20
		Carp		0.41			Carp		0.29
		Carp		0.57			Carp		0.31
		Drum	0.31				Carp		0.62
		Drum	1.1				Drum		
		Drum		0.51			Drum	0.40	
		Drum		0.68			Largemouth bass	0.19	
		Drum		0.73			Largemouth bass	0.24	
Tennessee River Mile 60	11-24-71	Largemouth bass	0.07		Tennessee River Mile 60	1-19-72	Largemouth bass	0.51	1.08
		Largemouth bass	0.21				Largemouth bass	0.71	1.50
		Largemouth bass	0.33	0.46			Largemouth bass	1.1	1.06
		Largemouth bass	0.49	0.86			Largemouth bass		0.98
		Largemouth bass	0.80				Largemouth bass		
		Largemouth bass		0.03			Largemouth bass		0.92
		Largemouth bass		0.19			Largemouth bass		0.64
		Largemouth bass		0.23			Largemouth bass		0.11
		Largemouth bass		0.55			Largemouth bass		0.16
		Largemouth bass					Largemouth bass		0.27

KENTUCKY RESERVOIR

KENTUCKY RESERVOIR

Location	Collection Date	Fish Species	Mercury in Flesh (ppm)		Location	Collection Date	Fish Species	Mercury in Flesh (ppm)					
			TVA	EPA SEWL				TVA	EPA SEWL				
Tennessee River Mile 60	2-17-72	Black crappie	0.07	0.10	Tennessee River Mile 60	4-13-72	Carp	0.23	0.14				
		Black crappie	0.30	0.44			Carp	0.23	0.19				
		Carp	0.47	0.44			Carp	0.47	0.30				
		Carp		0.52			Carp	0.30	0.38				
		Carp					Drum	0.30	0.69				
		Drum	0.34	0.79			Drum						
		Drum	0.41				Largemouth bass	0.05	0.52				
		Largemouth bass	0.11				Largemouth bass	0.59	0.77				
		Largemouth bass	0.13				Largemouth bass	0.89					
		Largemouth bass	0.14	0.22			Largemouth bass		0.10				
		Largemouth bass	0.15				Largemouth bass		0.35				
		Largemouth bass	0.41	0.50			Largemouth bass		0.76				
		Largemouth bass		0.20			Largemouth bass		0.87				
		Largemouth bass		0.40			Spotted bass	0.17					
		Largemouth bass		0.09			Spotted bass	0.75	0.83				
		Largemouth bass		0.16			Spotted bass		0.74				
		Kentucky bass	3-17-72	Carp			0.55		Kentucky bass	5-17-72	Carp	0.35	
				Carp			0.62	0.83			Carp	0.64	
				Carp							Carp		0.16
				Carp				0.20			Carp		0.22
				Drum			0.44	0.69			Carp		0.34
				Drum			0.55				Largemouth bass	0.30	
				Drum			0.59	0.52			Largemouth bass	0.47	
				Drum							Largemouth bass	0.52	
				Kentucky bass							Largemouth bass	0.76	
				Kentucky bass			0.24				Largemouth bass	0.77	0.81
Largemouth bass	0.14				Largemouth bass	1.2	1.12						
Largemouth bass	0.23				Largemouth bass		0.30						
Largemouth bass				0.09	Largemouth bass		0.59						
Largemouth bass				0.10	Largemouth bass		0.83						
Largemouth bass				0.10	Largemouth bass		0.99						
Largemouth bass				0.14	Carp	0.35							
Largemouth bass				0.16		0.41							
Largemouth bass				0.25	Carp		0.31						
Largemouth bass		0.19	Carp		0.49								
Largemouth bass			Carp		0.55								
Largemouth bass			Drum	0.07									
Largemouth bass			Drum	0.38									
Largemouth bass			Drum	0.67									
Largemouth bass			Drum		0.28								
Largemouth bass			Drum		0.89								

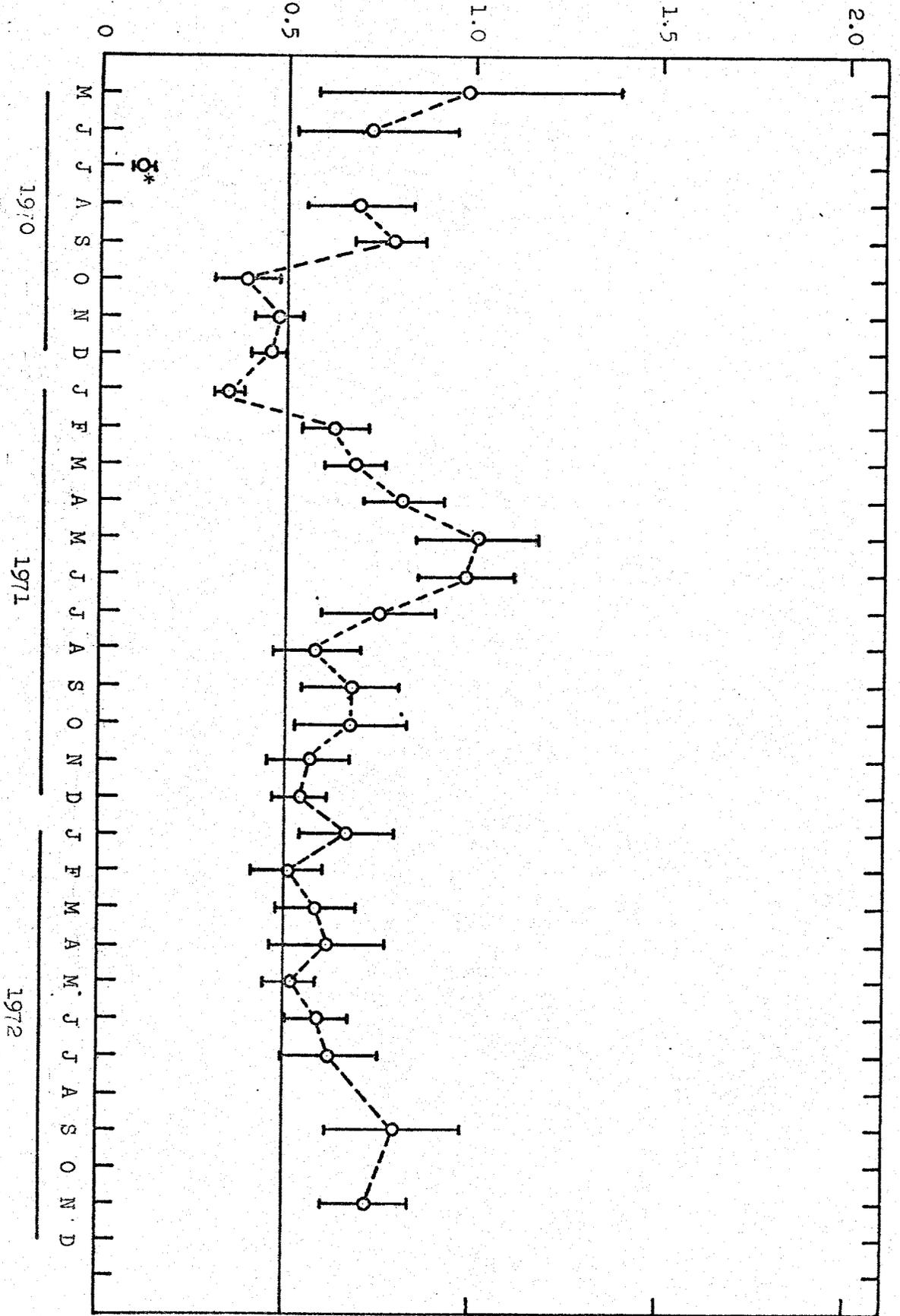
KENTUCKY RESERVOIR

KENTUCKY RESERVOIR

<u>Location</u>	<u>Collection Date</u>	<u>Fish Species</u>	<u>Mercury in Flesh (ppm)</u>	<u>Location</u>	<u>Collection Date</u>	<u>Fish Species</u>	<u>Mercury in Flesh (ppm)</u>
			<u>TVA</u> <u>EPA</u> <u>SEMT</u> <u>THOQB</u>				<u>TVA</u> <u>EPA</u> <u>SEMT</u> <u>THOQB</u>
<u>KENTUCKY RESERVOIR</u>							
Tennessee River Mile 60	6-14-72	Kentucky bass	0.22	Tennessee River Mile 60	9-27-72	Largemouth bass	0.18
		Largemouth bass	0.23			Largemouth bass	0.23
		Largemouth bass	0.24			Largemouth bass	0.47
		Largemouth bass	0.61			Smallmouth bass	1.0
		Largemouth bass	0.70			Smallmouth bass	0.30
		Largemouth bass	0.22			Spotted bass	0.65
		Largemouth bass	0.37			Spotted bass	0.88
		Largemouth bass	0.90			Spotted bass	0.83
		White bass	0.73		11-16-72	Carp	0.27
		White bass	0.90			Carp	0.36
		White bass	0.32			Carp	0.72
		Carp	0.54			Carp	1.9
		Carp	0.74			Carp	0.22
		Carp	0.32			Carp	0.37
		Carp	0.36			Carp	0.73
		Carp	0.49			Drum	0.16
		Carp	0.14			Drum	0.16
		Carp	0.67			Drum	0.24
		Largemouth bass	0.26			Drum	0.29
		Largemouth bass	0.26			Drum	0.19
		Largemouth bass	0.28			Drum	0.20
		Largemouth bass	0.31			Drum	0.32
		Largemouth bass	0.53			Drum	0.95
		Largemouth bass	0.19			Drum	0.46
		Largemouth bass	0.20			Drum	0.12
		Largemouth bass	0.28			Drum	
		Largemouth bass	0.50			Drum	
		Largemouth bass	0.58			Drum	
		Largemouth bass	0.66			Drum	
		Largemouth bass	0.39			Drum	
		Largemouth bass	0.44			Drum	
		Largemouth bass	0.10			Drum	
		Largemouth bass	0.12			Drum	
		Largemouth bass	0.17			Drum	
		Largemouth bass	0.17			Drum	
		Largemouth bass	0.23			Drum	
		Largemouth bass	0.40			Drum	
		Largemouth bass	0.14			Drum	
		Largemouth bass	0.35			Drum	
		Largemouth bass	0.35			Drum	
<u>KENTUCKY RESERVOIR</u>							
Tennessee River Mile 23	9-27-72	Carp	0.39	Tennessee River Mile 23	12-18-70	Bluegill	0.10
		Carp	0.44			Bluegill	0.15
		Carp	0.23			Bluegill	0.19
		Carp	0.30			Bluegill	0.19
		Carp	0.44			Bluegill	0.20
		Drum	0.06			Carp	0.16
		Drum	0.91			Carp	0.17
		Drum				Carp	0.21
		Drum				Carp	0.21
		Drum				Carp	0.22
		Largemouth bass	0.17			Carp	0.31
		Largemouth bass	0.23			Carp	0.31
		Largemouth bass	0.40			Carp	0.38
		Largemouth bass				Carp	0.40

Location	Collection Date	Fish Species	Mercury in Flesh (ppm)			Fish Species	Mercury in Flesh (ppm)		
			TVA	EPA	SEWL		TVA	EPA	SEWL
<u>KENTUCKY RESERVOIR</u>									
Tennessee River Mile 23	12-18-70	Drum	0.21			Blue catfish	0.07		
		Drum	0.28			Bluegill	<0.05		
		Largemouth bass	0.54	0.48		Channel catfish	0.10		
		Largemouth bass	0.56	0.40		Flathead catfish	0.12		
		Spotted sucker	0.15			Flathead catfish	0.30		
		Spotted sucker	0.29			Gizzard shad	<0.05		
		Spotted sucker	0.48			River carpsucker	0.19		
		White crappie	0.15			River carpsucker	0.32		
		White crappie	0.20						
		White crappie	0.20						
		White crappie	0.24						
		White crappie	0.34						
		White crappie	0.36						
		White crappie	0.56						
		Yellow bass	0.35	0.22					
		Yellow bass	0.36	0.59					
<u>BEECH RESERVOIR</u>									
Beech River Mile 38	7-23-70	Channel catfish	<0.05			Black crappie	0.22		
		Channel catfish	<0.05			Bluegill	0.13		
		Gizzard shad	<0.05			Carp	<0.05		
		Gizzard shad	<0.05			Carp	0.10		
		Largemouth bass	<0.05			Carp	0.17		
		Largemouth bass	<0.05			Carp	0.18		
		Sucker	<0.05			Carp	0.19		
		Sucker	<0.05			Carpsucker	0.22		
			<0.05			Carpsucker	0.25		
			<0.05			Carpsucker	0.30		
			<0.05			Carpsucker	0.63		
			<0.05			Channel catfish	0.15		
			<0.05			Channel catfish	0.21		
			<0.05			Channel catfish	0.22		
			<0.05			Channel catfish	0.25		
			<0.05			Channel catfish	0.29		
			<0.05			Drum	<0.05		
			<0.05			Drum	<0.05		
			<0.05			Drum	0.05		
			<0.05			Largemouth bass	0.16		
			<0.05			Largemouth bass	0.41		
			<0.05			Largemouth bass	0.86		
			<0.05			Longear sunfish	0.24		
			<0.05			Skipjack herring	0.83		
<u>BELOW KENTUCKY DAM</u>									
Tennessee River Mile 19	7-21-70	Bigmouth buffalo	<0.05			Bluegill	<0.05		
		Bullhead	0.06			Carp	0.06		
		Channel catfish	<0.05			Carp	0.11		
		Drum	<0.05			Channel catfish	<0.05		
		Gizzard shad	<0.05			Drum	<0.05		
		Gizzard shad	0.13			Gizzard shad	<0.05		
		White crappie	<0.05			Gizzard shad	<0.05		
		White crappie	<0.05			Largemouth bass	<0.05		
			<0.05			Largemouth bass	<0.05		

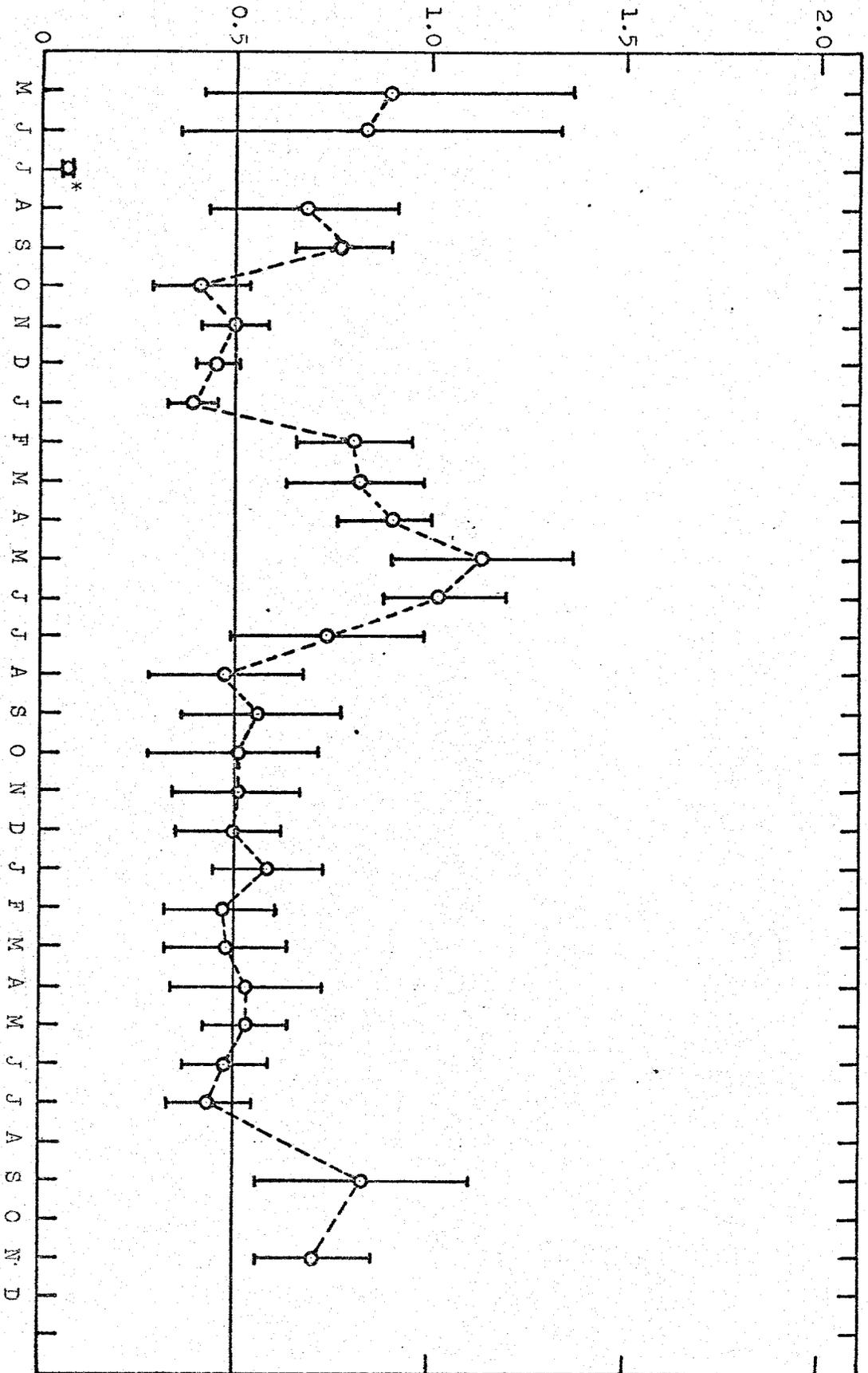
ug/gm mercury in fish flesh



95 percent confidence interval chart for mercury in flesh of fish collected from Pickwick Reservoir.

\*Questionable value

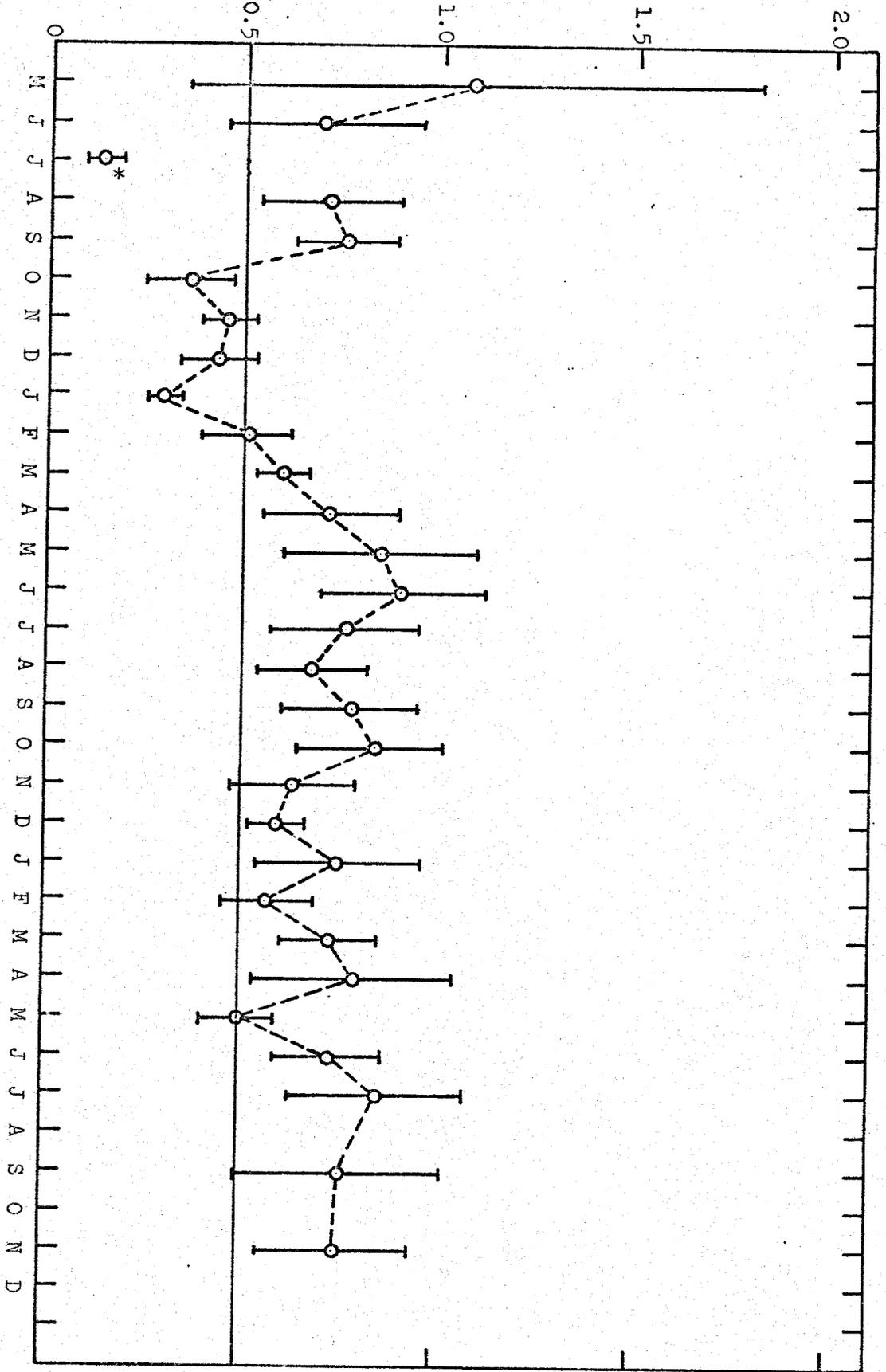
µg/gm mercury in fish flesh



95 percent confidence interval chart for mercury in flesh of fish (sauger, largemouth bass, smallmouth bass, white bass, yellow bass, spotted bass, crappie, walleye, bluegill, redear sunfish, chain pickerel, and longear sunfish) collected from Pickwick Reservoir.

\*Questionable value

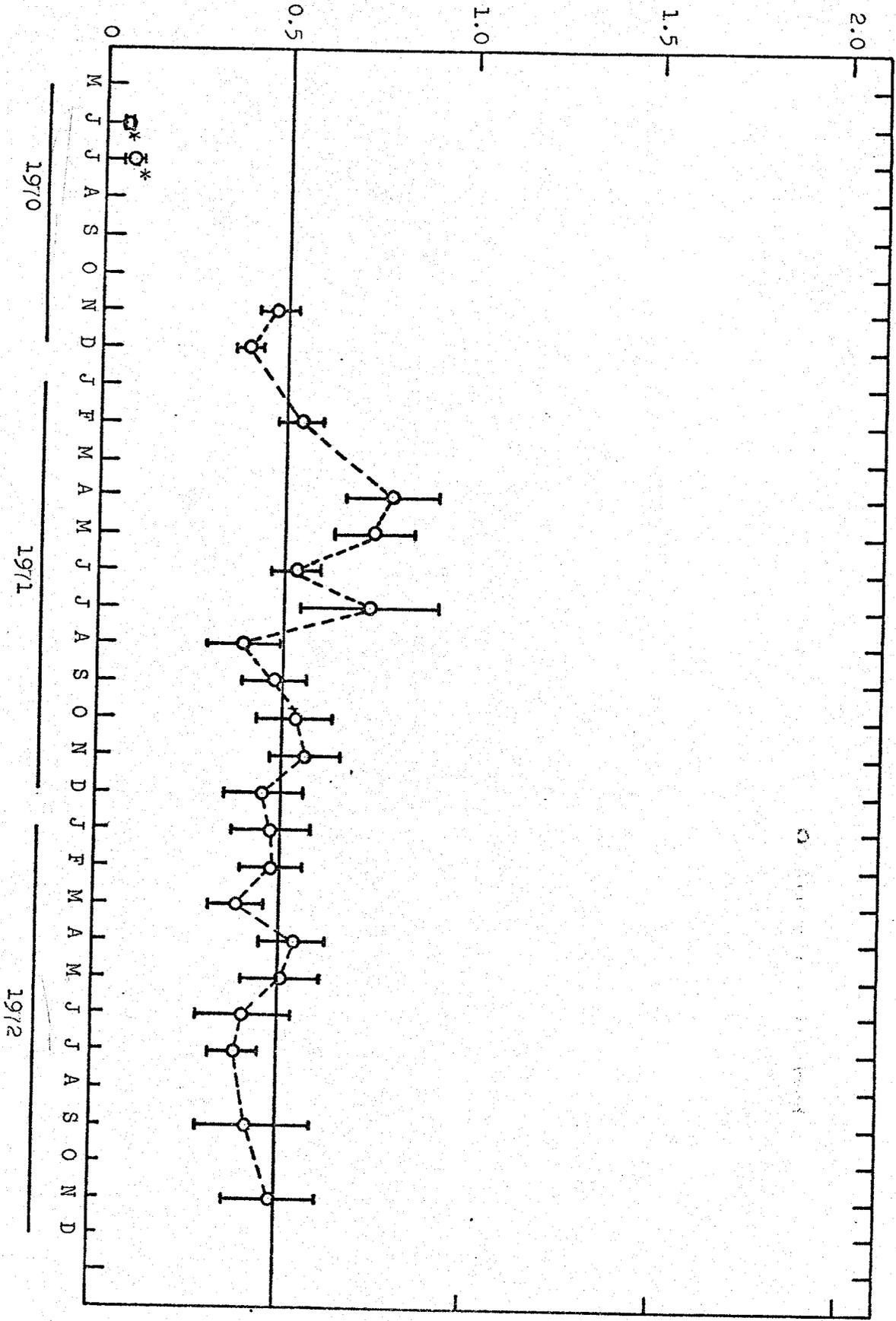
ug/gm mercury in fish flesh



95 percent confidence interval chart for mercury in flesh of fish (smallmouth buffalo, redborse, carp, spotted sucker, blue catfish, channel catfish, gizzard shad, hog sucker, mooneye, skipjack, drum, and herring) collected from Pickwick Reservoir.

\*Questionable value

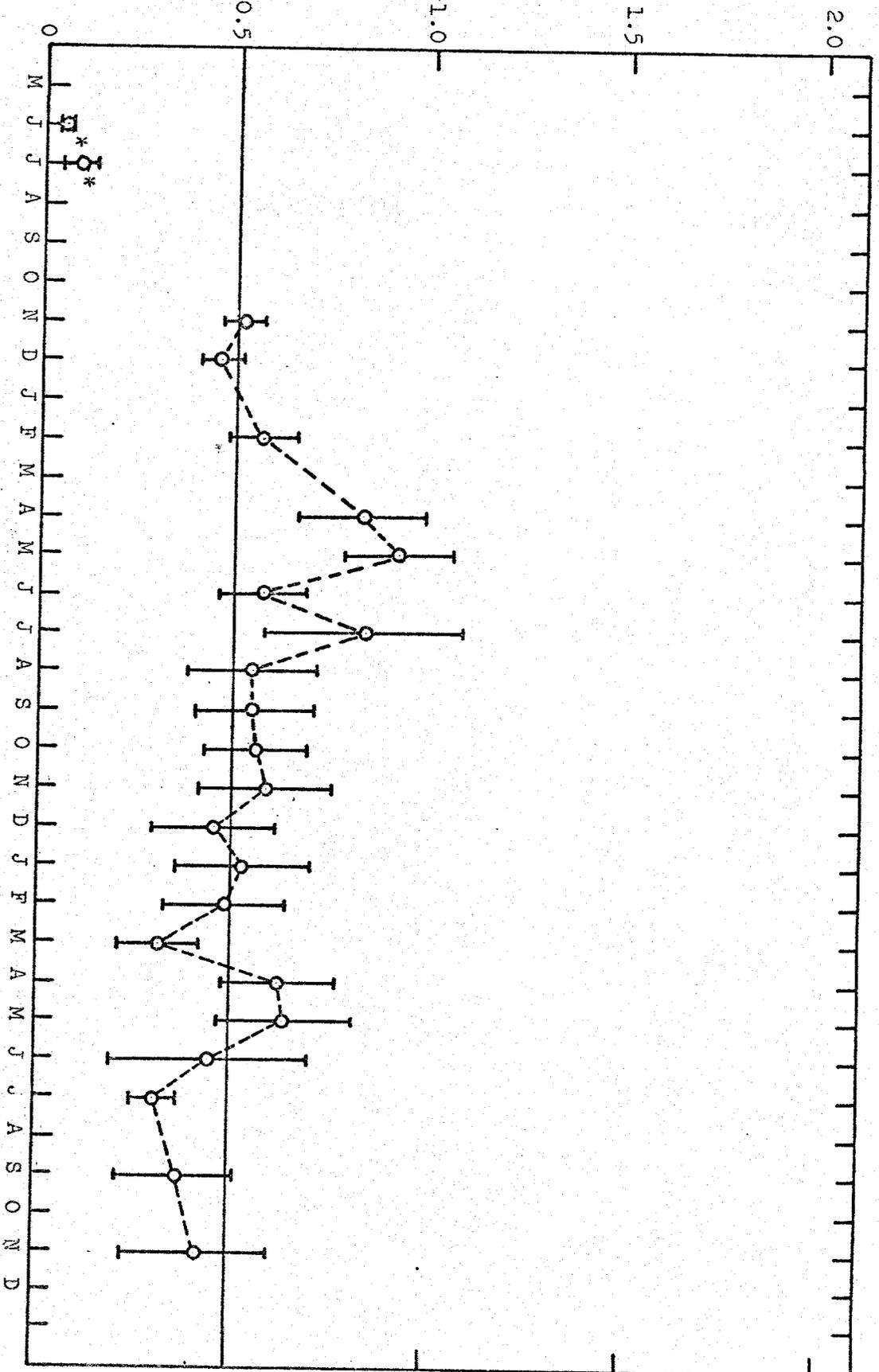
µg/gm mercury in fish flesh



95 percent confidence interval chart for mercury in flesh of fish collected from Kentucky Reservoir.

\*Questionable value

µg/gm mercury in fish flesh



95 percent confidence interval chart for mercury in flesh of fish (sauger, largemouth bass, smallmouth bass, white bass, yellow bass, spotted bass, crappie, walleye, bluegill, redear sunfish, chain pickerel, and longear sunfish) collected from Kentucky Reservoir.

\*Questionable value