

Appendix J. Concentrations of inorganic elements ($\mu\text{g/g}$ dry weight) in fish collected at various stations at Walter Walker State Wildlife Area.

Station	Date	Day of study	Fish ¹	Number in composite	Total length (mm)	Composite weight (g)	Element ($\mu\text{g/g}$)								
							Al	As	B	Ba	Be	Cd	Cr		
WW4	11/20/96	567	FHM	3	~55	6.2	170	<2 ²	<0.5	2.7	<0.001	<0.2	<1		
			GSF	2	~55	6.5	10	<2	<0.5	1.4	<0.001	<0.2	<1		
	03/10/97	677	FHM	8	~58	12.6	1,520	<3	0.7	16.3	<0.002	<0.2	2		
			05/08/97	736	FHM	3	- ³	15.9	950	<3	<0.5	23.9	<0.001	<0.2	1
					GSF	1	-	13.6	97	<2	<0.5	1.5	<0.001	<0.2	<1
WW4a	07/30/98	1,178	GSF	3	-	12.1	290	<2	<0.6	4.7	<0.1	<0.1	<1		
WW5	11/20/96	567	GSF	3	~55	9.0	280	<2	<0.5	2.8	<0.001	<0.2	<1		
			FHM	2	~75	10.0	2,620	<3	2.4	21.8	<0.002	<0.2	3		
WW6	03/10/97	677	FHM	5	~61	12.2	790	<2	<0.5	16.2	<0.001	<0.2	<1		
			05/08/97	736	GSF	1	-	5.7	850	<3	<0.5	6.7	<0.001	<0.2	<1
	WHS	1			-	17.3	440	<2	<0.5	16.6	<0.001	<0.2	<1		
	07/30/98	1,178			RDS	8	-	12.6	46	<2	<0.6	6.0	<0.1	<0.1	<1
	09/08/98	1,217	RDS	3	-	3.7	160	<2	<0.6	10.8	<0.1	0.2	<1		
WW7	09/08/98	1,217	SDS	3	-	5.8	13	<2	<0.6	8.1	<0.1	0.2	<1		
WW8	05/21/96	384	WHS	1	-	87.4	100	<2	<0.5	8.7	<0.001	<0.2	<1		
			WHS	1	-	72.3	160	<2	<0.5	8.1	<0.001	<0.2	<1		
	11/20/96	567	BLC	1	97	11.8	95	<2	<0.5	4.7	<0.001	<0.2	<1		
			FHM	30	-	6.4	230	<2	<0.5	9.1	<0.001	<0.2	<1		
	03/10/97	677	FHM	12	~52	12.1	1,900	<3	0.7	24.5	<0.002	<0.2	3		
			05/07/97	735	BLC	1	-	24.7	57	<2	<0.5	7.4	<0.001	<0.2	<1
	FHM	-			-	10.1	340	<2	<0.5	11.4	<0.001	<0.2	<1		
	01/12/98	978			FHM	1	70	3.8	9	<2	<0.5	23.1	<0.001	<0.2	<1
	06/17/98	1,134	RDS	1	84	8.8	28	<2	<0.6	1.7	<0.1	0.2	<1		
	07/30/98	1,178	RDS	11	-	10.8	34	<2	<0.6	4.6	<0.1	0.1	1		
WW8b	11/20/96	567	FHM	50	~20	5.7	720	<3	<0.5	14.1	<0.001	<0.2	<1		
			03/10/97	677	SDS	31	~38	9.9	1,000	<3	<0.5	13.9	<0.001	<0.2	<1
	06/17/98	1,134	RDS	2	-	7.5	86	<2	<0.6	3.3	<0.1	0.3	<1		

Appendix J. Continued.

Station	Date	Day of study	Fish ¹	Number in composite	Total length (mm)	Composite weight (g)	Element (µg/g)							
							Cu	Fe	Mg	Mn	Mo	Ni		
WW4	11/20/96	567	FHM	3	~55	6.2	2.8	189	1360	12.2	<0.4	<0.5		
			GSF	2	~55	6.5	0.6	90	1870	19.4	<0.4	<0.5		
	03/10/97	677	FHM	8	~58	12.6	3.7	819	1760	28.1	<0.4	0.8		
	05/08/97	736	FHM	3	-	15.9	3.8	602	1720	28.9	<0.4	<0.5		
			GSF	1	-	13.6	1.7	107	1710	17.8	<0.4	<0.5		
WW4a	07/30/98	1,178	GSF	3	-	12.1	2.1	180	1600	18.2	<0.5	<0.7		
WW5	11/20/96	567	GSF	3	~55	9.0	0.8	189	1980	30.3	<0.4	<0.5		
			FHM	2	~75	10.0	3.0	1490	2470	50.5	<0.4	1.0		
WW6	03/10/97	677	FHM	5	~61	12.2	3.3	436	1660	21.4	<0.4	<0.5		
			05/08/97	736	GSF	1	-	5.7	2.8	471	1780	49.1	<0.4	<0.5
	07/30/98	1,178	WHS	1	-	17.3	2.5	297	1670	16.0	<0.4	<0.5		
			RDS	8	-	12.6	3.0	68	1660	15.3	<0.5	<0.7		
			RDS	3	-	3.7	3.0	136	1620	15.9	0.8	<0.8		
09/08/98	1,217	RDS	3	-	3.7	3.0	136	1620	15.9	0.8	<0.8			
WW7	09/08/98	1,217	SDS	3	-	5.8	4.1	62	1720	13.6	<0.5	<0.7		
WW8	05/21/96	384	WHS	1	-	87.4	4.8	126	1840	30.0	<0.4	<0.5		
			WHS	1	-	72.3	4.4	147	1770	23.9	<0.4	<0.5		
	11/20/96	567	BLC	1	97	11.8	0.9	79	1880	22.9	<0.4	<0.5		
			FHM	30	-	6.4	3.1	226	1720	16.4	0.5	<0.5		
	03/10/97	677	FHM	12	~52	12.1	4.5	1260	2190	38.3	<0.4	0.8		
			05/07/97	735	BLC	1	-	24.7	5.5	65	1840	85.8	<0.4	<0.5
	01/12/98	978	FHM	-	-	10.1	4.9	270	1390	25.8	<0.4	<0.5		
			FHM	1	70	3.8	2.5	61	1240	7.8	<0.4	<0.5		
			06/17/98	1,134	RDS	1	84	8.8	3.4	66	1380	9.3	<0.5	<0.7
			07/30/98	1,178	RDS	11	-	10.8	3.8	66	1470	8.7	<0.5	<0.7
WW8b			11/20/96	567	FHM	50	~20	5.7	3.3	489	2000	22.3	<0.4	<0.5
					03/10/97	677	SDS	31	~38	9.9	3.6	688	1830	29.4
06/17/98			1,134	RDS	2	-	7.5	2.7	92	1370	13.0	<0.5	<0.7	

Appendix J. Continued.

Station	Date	Day of study	Fish ¹	Number in composite	Total length (mm)	Composite weight (g)	Element (µg/g)					
							Pb	Se	Sr	V	Zn	
WW4	11/20/96	567	FHM	3	~55	6.2	<2	85	166	0.4	97	
			GSF	2	~55	6.5	<2	41	250	0.3	108	
	03/10/97	677	FHM	8	~58	12.6	3	25	139	3.3	108	
	05/08/97	736	FHM	3	-	15.9	2	24	162	2.0	128	
GSF			1	-	13.6	<2	83	190	<0.2	96		
WW4a	07/30/98	1,178	GSF	3	-	12.1	<3	-	107	1.1	96	
WW5	11/20/96	567	GSF	3	~55	9.0	<2	40	308	0.5	103	
			FHM	2	~75	10.0	<2	29	190	5.2	99	
WW6	03/10/97	677	FHM	5	~61	12.2	<2	23	165	1.5	150	
			05/08/97	736	GSF	1	-	5.7	<2	27	194	1.7
	07/30/98	1,178	WHS		1	-	17.3	2	25	127	0.9	84
			RDS	8	-	12.6	<2	-	129	0.3	176	
WW7	09/08/98	1,217	RDS	3	-	3.7	6	-	129	0.6	198	
			SDS	3	-	5.8	3	-	166	0.3	256	
WW8	05/21/96	384	WHS	1	-	87.4	<2	18	131	0.5	71	
			WHS	1	-	72.3	<2	32	176	0.4	86	
	11/20/96	567	BLC	1	97	11.8	<2	34	350	<0.2	88	
			FHM	30	-	6.4	<2	15	120	0.8	214	
	03/10/97	677	FHM	12	~52	12.1	3	19	162	4.2	133	
			05/07/97	735	BLC	1	-	24.7	<2	12	250	0.4
	01/12/98	978	FHM		-	-	10.1	<2	23	94	1.1	103
			FHM	1	70	3.8	2	17	103	0.4	129	
	WW8b	11/20/96	567	RDS	1	84	8.8	<2	-	598	0.4	125
				RDS	11	-	10.8	<2	-	99	0.3	165
03/10/97	677	735	FHM	50	~20	5.7	<2	14	126	1.5	200	
			SDS	31	~38	9.9	<2	16	154	2.3	229	
06/17/98	1,134	RDS	2	-	7.5	<2	-	79	0.3	105		

Appendix J. Continued.

¹Fish: FHM, fathead minnow (*Pimephales promelas*); GSF, green sunfish (*Lepomis cyanellus*); WHS, white sucker (*Catostomus commersoni*); BLC, black crappie (*Pomoxis nigromaculatus*); SDS, sand shiner (*Notropis stramineus*); RDS, red shiner (*Cyprinella lutrensis*).

²<: less than limit of detection.

³-: not measured.