**ASSESSMENT OF THE FISHERY IMPROVEMENT OPPORTUNITIES
ON THE PEND OREILLE RIVER**

APPENDICES

Annual Report
1990

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Project No. 88-66
Contract Number DE-A179-88BP39339

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APPENDIX A

MONTHLY ELECTROFISHING, GILLNETTING, AND BEACH SEINING RELATIVE ABUNDANCE DATA FOR EACH FISH SPECIES

Table A.I. Number of each species of fish caught by electrofishing at each
Pend Oreille River study site in February, 1990.

STUDY SITE	1	2	3	4	5	6	7	8	9	10	11	TOTAL
SHOCK TIME (MN)	40	35	40	42	40	40	40	40	42	40	41	440
BULL TROUT												
CUTTHROAT TROUT												
BROWN TROUT	1	1										2
BROOK TROUT					1							1
RAINBOW TROUT												
KOKANEE		2										2
MOUNTAIN WHITEFISH	1					1	4	2	2	1	3	14
LARGEMOUTH BASS	5	5	1	1	2		10	2	4	8	2	40
BLACK CRAPPIE	1			1	1	2	2	2		1	1	11
PUMPKINSEED	3	12	6	3	9		5	1 1	2 4	10	5	88
YELLOW PERCH	2	4		1	1	2	2	1	4	1	5	23
LONGNOSE SUCKER		1	3		2		1	7	7	1	2	24
LARGESCALE SUCKER	3	3	2	9	2			8	3	1		31
BROWN BULLHEAD		1			2				1	1		5
TENCH		10	1	2	6	8	10	2	9	14	3	65
NORTHERN SQUAWFISH	1	6		1				5	1	1	2	17
PEAMOUTH											1	1
REDSIDE SHINER												
SCULPIN												
TOTAL	17	45	13	18	2 6	1 3	3 4	4 0	5 5	3 9	2 4	324

Table A-Z ● Percent of each species of fish caught by electrofishing at each study site in the Pend Oreille River during February, 1990.

STUDY SITE	1	2	3	4	5	6	7	8	9	10	11	TOTAL
BULL TROUT												
CUTTHROAT TROUT												
BROWN TROUT	5.9	2.2										0.6
BROOK TROUT					3.8							0.3
RAINBOW TROUT												
KOKANEE		4.4										0.6
MOUNTAIN WHITEFISH	5.9					7.7	11.8	5	3.6	2.6	12.5	4.3
LARGEMOUTH BASS	29.4	11.1	7.7	5.6	7.7		29.4	5	7.3	20.5	8.3	12.3
BLACK CRAPPIE	5.9			5.6	3.8	15.4	5.9	5		2.6	4.2	3.4
PUMPKINSEED	17.6	26.7	46.2	16.7	34.6		14.7	27.5	43.6	25.6	20.8	27.2
YELLOW PERCH	11.8	8.9		5.6	3.8	15.4	5.9	2.5	7.3	2.6	20.8	7.1
LONGNOSE SUCKER		2.2	23.1		7.7		2.9	17.5	12.7	2.6	8.3	7.4
LARGESCALE SUCKER	17.6	6.7	15.4	5.0	7.7			2.0	5.5	2.6		9.6
BROWN BULLHEAD		2.2			7.7				1.8	2.6		1.5
TENCH		22.2	7.7	11.1	23.1	61.5	29.4	5	16.4	35.9	12.5	20.1
NORTHERN SQUAWFISH	5.9	13.3		5.6				12.5	1.8	2.6	8.3	5.2
PEAMOUTH											4.2	0.3
REDSIDE SHINER												
SCULPIN												

Table A.3. Number of each species of fish caught by electrofishing at each Pend Oreille River study site in March, 1990.

STUDY SITE	1	2	3	3A	4	4A	5	5A	6	6A	7	8	9	TOTAL
SHOCK TIME (MIN)	40	35	40	21	40	30	35	18	40	30	40	40	40	449
BULL TROUT														
CUTTHROAT TROUT	1		1						2			1		5
BROWN TROUT	1	1	3	2					11					18
BROOK TROUT														
RAINBOW TROUT			1									1		2
KOKANEE	1												1	2
MOUNTAIN WHITEFISH	3	19	22	5	5				41	7	7	26	14	149
LARGEMOUTH BASS	1	1			1	6	1	7		2		2		21
BLACK CRAPPIE						2		3				1		6
PUMPKINSEED			7			1	1	1	3	7				20
YELLOW PERCH	2	2	74	1	1	7	9	2	75	20	5	4		202
LONGNOSE SUCKER		4	1					3	2	4	3	3	3	23
LARGESCALE SUCKER	15	16	11	1	4		3		21	4	3	5	3	86
BROWN BULLHEAD			13	1			4	3	2	4				27
TENCH	1	6	3	8	8	8	16	11	19	9	15	3	1	108
NORTHERN SQUAWFISH	2	3	10	6	1	4			4	1				31
PEAMOUTH	1		5	1	6	17		1	4					35
SCULPIN														
TOTAL	28	52	151	25	26	45	34	31	184	58	33	46	22	735

Table A.4. Percent of each species of fish caught by electrofishing at each study site in the Pend Oreille River during March, 1990.

STUDY SITE	1	2	3	3A	4	4A	5	5A	6	6A	7	8	9	TOTAL
BULL TROUT														
CUTTHROAT TROUT	3.6		0.7						1.1			2.2		0.7
BROWN TROUT	3.6	1.9	2	8					6					2.4
BROOK TROUT														
RAINBOW TROUT			0.7									2.2		0.3
KOKANEE	3.6												4.5	0.3
MOUNTAIN WHITEFISH	10.7	36.5	14.6	20	19.2				22.3	12.1	21.2	56.5	63.6	20.3
LARGEMOUTH BASS	3.6	1.9			3.8	13.3	2.9	22.6		3.4		4.3		2.9
BLACK CRAPPIE						4.4		9.7				2.2		0.8
PUMPKINSEED			4.6			2.2	2.9	3.2	1.6	12.1				2.7
YELLOW PERCH	7.1	3.8	49	4	3.8	15.6	26.5	6.5	40.8	34.5	15.2	8.7		27.5
LONGNOSE SUCKER		7.7	0.7					9.7	1.1	6.9	9.1	6.5	13.6	3.1
LARGESCALE SUCKER	53.6	30.8	7.3	4	15.4		8.8		11.4	6.9	9.1	10.9	13.6	11.7
BROWN BULLHEAD			8.6	4			11.8	9.7	1.1	6.9				3.7
TENCH	3.6	11.5	2	32	30.8	17.8	47.1	35.5	10.3	15.5	45.5	6.5	4.5	14.7
NORTHERN SQUAWFISH	7.1	5.8	6.6	24	3.8	8.9			2.2	1.7				4.2
PEAMOUTH	3.6		3.3	4	23.1	37.8		3.2	2.2					4.8
SCULPIN														

Table A.5 Number of each species of fish caught by electrofishing at each Pend Oreille River study site in April, 1990.

STUDY SITE	1	2	3	3A	4	4A	5	5A	6	6A	7	8	9	10	11	TOTAL
SHOCK TIME (MIN)	32	30	40	20	20	23	30	20	30	20	30	30	30	30	30	415
BULL TROUT																
CUTTHROAT TROUT																
BROWN TROUT		1	1		1				2				1		3	9
BROOK TROUT																
RAINBOW TROUT													1	1		2
KOKANEE						1					1					2
MOUNTAIN WHITEFISH	2	16	8	4			1		9	2	15	4	32	10	66	169
LARGEMOUTH BASS	3		3			22	1	9						1		39
BLACK CRAPPIE	1			1		3										5
PUMPKINSEED	2	1	7		3	15										28
YELLOW PERCH	10	1	103	1	186	190	6	4	16	1		22	7	1	5	553
LONGNOSE SUCKER		1	4	3	5				1		3	1			3	21
LARGESCALE SUCKER	21	15	6	6	4		12		1	2	13	3	5	2	6	96
BROWN BULLHEAD		1	16		9	7										33
TENCH	4	2	3	7	3	6	4	3	2	2	7	1	2	2	1	49
NORTHERN SQUAWFISH	2	13	3	3	1	3									1	26
PEAMOUTH			10		5	9					2					26
REDSIDE SHINER	1															1
SCULPIN															1	1
TOTAL	46	51	164	25	217	256	24	16	31	7	41	31	48	17	86	1060

Table 1-6 ● Percent of each species of fish caught by electrofishing at each study site in the Pend Oreille River during April, 1990.

STUDY SITE	1	2	3	3A	4	4A	5	5A	6	6A	7	8	9	10	11	TOTAL
BULL TROUT																
CUTTHROAT TROUT																
BROWN TROUT	2.0		0.6		0.5				6.5				2.1		3.5	0.8
BROOK TROUT																
RAINBOW TROUT													2.1	5.9		0.2
KOKANEE					0.4						2.4					0.2
MOUNTAIN WHITEFISH	4.3	31.4	4.9	16.0			4.2		29.0	28.6	36.6	12.9	66.7	58.8	76.7	15.9
LARGEMOUTH BASS	6.5		1.8		8.6		4.2	56.3					5.9			3.7
BLACK CRAPPIE	2.2		4.0		1.2											0.5
PUMPKINSEED	4.3	2.0	4.3		1.4	5.9										2.6
YELLOW PERCH	21.7	2.0	62.8	4.0	85.7	74.2	25.0	25.0	51.6	14.3	71.0		14.6	5.9	5.8	52.2
LONGNOSE SUCKER	2.0		2.4	12.0	2.3				3.2		7.3	3.2			3.5	2.0
LARGESCALE SUCKER	45.7	29.4	3.7	24.0	1.8		50.0		3.2	28.6	31.7	9.7	10.4	11.8	7.0	9.1
BROWN BULLHEAD	2.0		9.8		4.1	2.7										3.1
TENCH	8.7	3.9	1.8	28.0	1.4	2.3	16.7	18.8	6.5	28.6	17.1	3.2	4.2	11.8	1.2	4.6
NORTHERN SQUAWFISH	4.3	25.5	1.8	12.0	0.5	1.2									1.2	2.5
PEAMOUTH			6.1		2.3	3.5					4.9					2.5
REDSIDE SHINER	2.2															0.1
SCULPIN															1.2	0.1

Table A.7. Number of each species of fish caught by electrofishing at each Pend Oreille River study site in May, 1990.

STUDY SITE	1	2	3	3A	4	4A	5	5A	6	6A	7	8	9	10	11	TOTAL
SHOCK TIME (MIN)	30	32	30	29	31	30	30	31	30	30	30	30	30	30	30	453
BROWN TROUT	2		1	2			1		2	2		1	1		1	13
BROOK TROUT	1															1
RAINBOW TROUT	1	1													1	3
KOKANEE	1			1												2
MOUNTAIN WHITEFISH	3	31	2	8	8	1	13		16	14	5	11	27	9	16	164
LARGEMOUTH BASS	2		3		1	11		18	3	8	1		2	1		50
BLACK CRAPPIE	1			1		14		4								20
PUMPKINSEED	1	1			1	5	1	15	6	1	1	1	2	6		41
YELLOW PERCH	1	2	38	7	9	98	42	75	41	30	10	12	15	45		425
LONGNOSE SUCKER		1	6	3	1			1	4	4			4	1	1	26
LARGESCALE SUCKER	10	7	15	1	8	2	6		7	4	8	9	9	6	14	106
BROWN BULLHEAD			1	1		2	8	12	1			1		1	1	28
TENCH		1	6	3		2	4	48	9	3	2	3	7	31		119
NORTHERN SQUAWFISH	3	1				2	2		12	1	2	1	6	2	1	33
PEAMOUTH	1	1	1		1		3	4	3							14
SCULPIN																
TOTAL	27	46	73	27	29	137	80	177	104	67	29	39	73	102	35	1045

Table A.8 Percent of each species of fish caught by electrofishing at each study site in the Pend Oreille River during May, 1990.

STUDY SITE	1	2	3	3A	4	4A	5	5A	6	6A	7	8	9	10	11	TOTAL
BROWN TROUT	7.4		1.4	7.4			1.3		1.9	3.0		2.6	1.4		2.9	1.2
BROOK TROUT	3.7															0.1
RAINBOW TROUT	3.7	2.2													2.9	0.3
KOKANEE	3.7			3.7												0.2
MOUNTAIN WHITEFISH	11.1	67.4	2.7	29.6	27.6	0.7	16.3		15.4	20.9	17.2	28.2	37.0	8.8	45.7	15.7
LARGEMOUTH BASS	7.4		4.1		3.4	8.0		10.2	2.9	11.9	3.4		2.7	1.0		4.8
BLACK CRAPPIE	3.7			3.7		10.2		2.3								1.9
PUMPKINSEED	3.7	2.2			3.4	3.6	1.3	8.5	5.8	1.5	3.4	2.6	2.7	5.9		3.9
YELLOW PERCH	3.7	4.3	52.1	ZS,9	31.0	71.5	52.5	42.4	39.4	44.8	34.5	30.8	20.5	44.1		40.7
LONGNOSE SUCKER		2.2	8.2	11.1	3.4			0.6	3.8	6.0			S, S	1.0	2.9	Z, S
LARGESCALE SUCKER	37.0	15.2	20.5	3.7	27.6	1.5	7.5		6.7	6.0	27.6	23.1	12.3	S,9	40.0	10.1
BROWN BULLHEAD			1.4	3.7		1.5	10.0	6.8	1.0			2.6		1.0	2.9	2.7
TENCH		2.2	8.2	11.1		1.5	S,0	27.1	8.7	4.5	6.9	7.7	9.6	30.4		11.4
NORTHERN SQUAWFISH	11.1	2.2				1.5	2.5		11.5	1.5	6.9	2.6	8.2	Z,0	2.9	3.2
PEAMOUTH	3.7	2.2	1.4		3.4		3.8	2.3	2.9							1.3
REDSIDE SHINER																
SCULPIN																

Table A.9. Number of each species of fish caught by electrofishing at each Pend Oreille River study site in June, 1990.

STUDY SITE	1	2	3	3A	4	4A	5	5A	6	6A	7	8	9	10	11	TOTAL
SHOCK TIME (MIN)	40	40	40	38	40	30	40	28	40	20	40	38	40	40	40	554
BULL TROUT			1													1
CUTTHROAT TROUT																
BROWN TROUT	2		1		1		3	2	1			1	2		1	14
BROOK TROUT							1									1
RAINBOW TROUT											1					1
KOKANEE		1			2	10			1		3			2		19
MOUNTAIN WHITEFISH	9	1		2	3		1			1	1	5	4		5	32
LARGEMOUTH BASS	12	2	14	7	11	24	8	44	3	17	7			13		162
BLACK CRAPPIE				5		8		5						1		19
PUMPKINSEED		3	2	2	4	13	3	4	12		6			29		78
YELLOW PERCH		11	40	22	27	17	12	8	68	6	24	9	14	55		313
LONGNOSE SUCKER			1	6	3	1			4	2	1		2	3	3	26
LARGESCALE SUCKER	6	11	6	3	7	1	8		8	2	20	20	17	1	4	114
BROWN BULLHEAD			6	1	1	2		1	1		1			11		24
TENCH	2	29	4	9	3	25	2	2	11	7	22	2	2	16		136
NORTHERN SQUAWFISH	12	26	4		2	1	2		3	1	1	4	8		13	77
PEAMOUTH			1			1					1		7	1	2	13
REDSIDE SHINER																
SCULPIN																
TOTAL	43	84	80	57	64	103	40	66	112	36	88	41	56	132	28	1030

Table A.10. Percent of each species of fish caught by electrofishing at each study site in the Pend Oreille River during June, 1990,

STUDY SITE	1	2	3	3A	4	4A	5	5A	6	6A	7	8	9	10	11	TOTAL
BULL TROUT																
CUTTHROAT TROUT																
BROWN TROUT	4.7		1.3		1.6		7.5	3.0	0.9		2.4		3.6		3.6	1.4
BROOK TROUT			1.3				2.5									0.2
RAINBOW TROUT											1.1					0.1
KOKANEE		1.2			3.1	9.7			0.9		3.4			1.5		1.8
MOUNTAIN WHITEFISH	20.9	1.2		3.5	4.7		2.5			2.8	1.1	12.2	5.4		17.9	3.0
LARGEMOUTH BASS	27.9	2.4	17.5	12.3	17.2	23.3	20.0	66.7	2.7	47.2	8.0			9.8		15.7
BLACK CRAPPIE				8.8		7.8		7.6						0.8		1.8
PUMPKINSEED		3.6	2.5	3.5	6.3	12.6	7.5	6.1	10.7		6.8			22.0		7.6
YELLOW PERCH		13.1	50.0	38.6	42.2	16.5	30.0	12.1	60.7	16.7	27.3	22.0	25.0	41.7		30.4
LONGNOSE SUCKER			1.3	10.5	4.7	1.0			3.6	5.6	1.1		3.6	2.3	10.7	2.5
LARGESCALE SUCKER	14.0	13.1	7.5	5.3	10.9	1.0	20.0		7.1	5.6	22.7	48.8	32.1	0.8	14.3	11.2
BROWN BULLHEAD			7.5	1.8	1.6	1.9		1.5	0.9		1.1			8.3		2.3
TENCH	4.7	34.5	5.0	15.8	4.7	24.3	5.0	3.0	9.8	19.4	25.0	4.9	3.6	12.1		13.2
NORTHERN SQUAWFISH	27.9	31.0	5.0		3.1	1.0	5.0		2.7	2.8	1.1	9.8	14.3		46.4	7.5
PEAMOUTH			1.3			1.0					1.1		12.5	0.8	7.1	1.3
REDSIDE SHINER																
SCULPIN																

Table A.II. Number of each species of fish caught by electrofishing at each Pend Oreille River study site in July, 1990.

STUDY SITE	1	2	3	3A	4	4A	5	5A	6	6A	7	8	9	10	11	TOTAL
SHOCK TIME (MIN)	40	40	25	20	40	24	37	15	40	22	30	30	30	40	40	473
LAKETROUT		2														2
BULL TROUT																
CUTTHROAT TROUT																
BROWN TROUT		15		5					1							21
BROOK TROUT																
RAINBOW TROUT																
KOKANE		1		2			1									4
MOUNTAIN WHITEFISH		3		9									1		3	16
LARGEMOUTH BASS	9		2		18	15	17	6	19	10	18	20	30	4	4	172
BLACK CRAPPIE	1				1	4	2				2		4			14
PUMPKINSEED	5		6	4	14	14	31	14	23	10	33	47	52	14	1	268
YELLOW PERCH	10	1	96	35	103	49	121	25	102	22	89	106	150	47	16	972
LONGNOSE SUCKER	5	2		27			1		1					1	3	40
LARGESCALE SUCKER	6	3		2		1	1				1		1	2	3	20
BROWN BULLHEAD	1				1	1	2		4				1	5		15
TENCH	5		23		23	14	26	2	4	13	15	35	22	52	15	259
NORTHERN SQUAWFISH	3	2		1	2	1			1	1		1	1			13
PEAMOUTH	1			14							1					16
REDSIDE SHINER																
SCULPIN																
TOTAL	46	29	127	99	162	99	202	47	165	56	157	211	262	125	45	1832

Table A.12. Percent of each species of fish caught by electrofishing at each study site in the Pend Oreille River during July, 1990.

STUDY SITE	1	2	3	3A	4	4A	5	5A	6	6A	7	8	9	10	11	TOTAL
LAKE TROUT		6.9														0.1
BULL TROUT																
CUTTHROAT TROUT																
BROWN TROUT		51.7		5.1					0.6							1.1
BROOK TROUT																
RAINBOW TROUT																
KOKANEE		3.4		2.0			0.5									0.2
MOUNTAIN WHITEFISH		10.3		9.1									0.4		6.7	0.9
LARGEMOUTH BASS	19.6		1.6		11.1	15.2	8.4	12.8	11.5	17.9	11.5	9.5	11.5	3.2	8.9	9.4
BLACK CRAPPIE	2.2				0.6	4.0	1.0				1.3		1.5			0.8
PUMPKINSEED	10.9		4.7	4.0	8.6	14.1	15.3	29.8	13.9	17.9	21.0	22.3	19.8	11.2	2.2	14.6
YELLOW PERCH	21.7	3.4	75.6	35.4	63.6	49.5	59.9	53.2	61.8	39.3	56.7	50.2	57.3	37.6	35.6	53.1
LONGNOSE SUCKER	10.9	6.9		27.3			0.5		0.6					0.8	6.7	2.2
LARGESCALE SUCKER	13.0	10.3		2.0		1.0	0.5					0.5	0.4	1.6	6.7	1.1
BROWN BULLHEAD	2.2				0.6	1.0	1.0		2.4				0.4	4.0		0.8
TENCH	10.9		18.1		14.2	14.1	12.9	4.3	8.5	23.2	9.6	16.6	8.4	41.6	33.3	14.1
NORTHERN SQUAWFISH	6.5	6.9		1.0	1.2	1.0			0.6	1.8		0.5	0.4			0.7
PEAMOUTH	2.2			14.1								0.5				0.9
REDSIDE SHINER																
SCULPIN																

Table A.13. Number of each species of fish caught by electrofishing at each Pend Oreille River study site in August, 1990.

STUDY SITE	1	2	3	3A	4	4A	5	6	7	8	9	10	11	TOTAL
SHOCK TIME (MIN)	20	40	40	20	40	40	40	50	40	35	40	40	36	481
LAKE TROUT														
BULL TROUT														
CUTTHROAT TROUT				2										2
BROWN TROUT		2	3	5				1	1				2	14
BROOK TROUT														
RAINBOW TROUT													1	1
MOUNTAIN WHITEFISH		3	2	19			1	4	1			11	2	43
LARGEMOUTH BASS	10	4	8		5	39	2	10	22	6		10	10	126
BLACK CRAPPIE			3		2	11			4					20
PUMPKINSEED	1	1	14		7	34	23	42	28	8	4	14	18	194
YELLOW PERCH	8	6	102	8	88	66	80	79	66	42	36	45	60	686
LONGNOSE SUCKER		4	6	21	2	1	1	7	1		5	3	27	78
LARGESCALE SUCKER	14	2	2	2	6		5	4	1	1	3	3	3	46
BROWN BULLHEAD			1			1	3				1			6
TENCH	1	1	14		9	8	8	5	11	16	10	17	14	114
NORTHERN SQUAWFISH	4		3	1	4	3		2			1		7	25
PEAMOUTH		2												
REDSIDE SHINER	1													1
SCULPIN													1	3
TOTAL	39	23	158	58	123	163	123	154	135	73	60	103	145	1359

Table

● Percent of each species of fish caught by electrofishing at each study site in the Pend Oreille River during August, 1990.

STUDY SITE	1	2	3	3A	4	4A	5	6	7	8	9	10	11	TOTAL
CUTTHROAT TROUT				3.4										0.1
BROWN TROUT		8.0	1.9	8.6				0.6	0.7				1.3	1.0
BROOK TROUT														
RAINBOW TROUT														
KOKANEE														
MOUNTAIN WHITEFISH		12.0	1.2	32.8			0.8	2.5				9.7	1.3	3.0
LARGEMOUTH BASS	25.0	16.0	5.0		3.9	23.9	1.6	6.3	15.6	7.4		8.8	6.5	8.9
BLACK CRAPPIE			1.9		1.6	6.7			2.8					1.4
PUMPKINSEED	2.5	4.0	8.7		5.5	20.9	18.0		19.9	9.9	5.8	12.4	11.6	10.7
YELLOW PERCH	20.0	24.0	63.4	13.8	69.3	40.5	62.5	80.0	46.8	51.9	52.2	39.8	38.7	51.7
LONGNOSE SUCKER		16.0	3.7	36.2	1.6	0.6	0.8	4.4	0.7		7.2	2.7	17.4	5.5
LARGESCALE SUCKER	35.0	8.0	1.2	3.4	4.7		3.9	2.5	0.7	1.2	4.3	2.7	1.9	3.2
BROWN BULLHEAD			0.6			0.6	2.3				1.4	15.0		0.4
TENCH	2.5	4.0	8.7		7.1	4.9	6.3		7.8	19.8	14.5		9.0	7.7
NORTHERN SQUAWFISH	10.0		1.9	1.7	3.1	1.8					1.4		4.5	1.6
PEAMOUTH													0.6	0.07
REDSIDE SHINER	2.5													0.07
SCULPIN														

Table A.15. Number of each species of fish caught by electrofishing at each Pend Oreille River study site in September, 1990.

STUDY SITE SHOCK TIME (MIN)	1 40	2 40	3 40	3A 20	4 40	4A 20	5 40	6 40	7 41.5	8 40	9 40	10 40	11 40	TOTAL 481.5
CUTTHROAT TROUT		1												1
BROWN TROUT		2		3					1					6
RAINBOW TROUT				1										1
LAKE TROUT		1												1
KOKANEE														
MOUNTAIN WHITEFISH		14		5				2	15	3	1		3	43
LARGEMOUTH BASS	4	1	11		8	19	2	2	14			10	13	84
BLACK CRAPPIE	2		2	1	9	3	2	2	8	2	3	2		36
PUMPKINSEED		3	9	1	18	62	13	7	4	7	11	10	22	167
YELLOW PERCH	2	11	63	10	88	108	138	58	55	33	143	54	56	819
LONGNOSE SUCKER				17			6	4	9	2	1	8	2	49
LARGESCALE SUCKER	5	13	2		5	1	11	8	1	2	2		5	55
BROWN BULLHEAD			1		1		4	2		1	2			11
TENCH		6	4		5	4	5	3	4	3	1	13	4	52
NORTHERN SQUAWFISH	4	2	3	3	2	3	1	3					5	26
PEAMOUTH				2										2
REDSIDE SHINER														
SCULPIN														
TOTAL	17	54	95	43	136	200	182	91	111	53	164	97	110	1353

Table A.16 Percent of each species of fish caught by electrofishing at each Pend Oreille River study site in September, 1990.

STUDY SITE	1	2	3	3A	4	4A	5	6	7	8	9	10	11	TOTAL
CUTTHROAT TROUT		1.8												0.1
BROWN TROUT		3.7		6.9					0.9					0.4
RAINBOW TROUT				2.3										0.1
LAKE TROUT		1.8												0.1
KOKANEE														
MOUNTAIN WHITEFISH		25.9		11.6				2.2	13.5	5.7	0.6		2.7	3.2
LARGEMOUTH BASS	23.5	1.8	11.6		5.9	9.5	1.1	2.2	12.6			10.3	11.8	6.2
BLACK CRAPPIE	11.8		2.1	2.3	6.6	1.5	1.1	2.2	7.2	3.8	1.8	2.1		2.7
PUMPKINSEED		5.6	9.5	2.3	13.2	31.0	7.1	7.7	3.6	13.2	6.7	10.3	20.0	12.3
YELLOW PERCH	11.8	20.4	66.3	23.7	64.7	54.0	75.8	63.7	49.5	62.3	87.2	55.7	50.9	60.5
LONGNOSE SUCKER				39.5			3.3	4.4	8.1	3.8	0.6	8.2	2.7	3.7
LARGESCALE SUCKER	29.4	24.1	2.1		3.7	0.5	6.0	8.8	0.9	3.8	1.2		3.6	4.0
BROWN BULLHEAD			1.0		0.7		2.2	2.2		1.9	1.2			0.8
TENCH		11.1	4.2		3.7	2.0	2.7	3.3	3.6	5.7	0.6	13.4	3.6	3.8
NORTHERN SQUAFISH	23.5	3.7	3.1	6.9	1.5	1.5	0.5	3.3					4.5	1.9
PEAMOUTH				4.6										0.1
REDSIDE SHINER														
SCULPIN														

Table A.17 Number of each species of fish caught by electrofishing at each Pend Oreille River study site during October, 1990.

STUDY SITE	1	2	3	3A	4	4A	5	5A	6	6A	7	8	9	10	11	TOTAL
SHOCK TIME (MIN)	40	41	40	46	40	25	39	20	40	20	40	47	40	40	20	548
BULL TROUT																
CUTTHROAT TROUT																
BROWN TROUT		1		1			1					3				
BROOK TROUT																
RAINBOW TROUT																
KOKANEE											1					1
MOUNTAIN WHITEFISH		9	8	11	1		13		2		5	6	9	2	13	79
LARGEMOUTH BASS	5	1	19	2	12	23	11	16	10	3	16	1	11	9	9	148
BLACK CRAPPIE	8		2				1	9	1	1		1	1			24
PUMPKINSEED	10		17	6	7	9	3	7	22	9	10	9	17	8	8	142
YELLOW PERCH	14	15	58	16	50	14	39	14	34	41	45	37	41	33	9	460
LONGNOSE SUCKER		1	2	17	9	2	9	5	5	5	4	2	1	5	8	75
LARGESCALE SUCKER	6	1	3	4			11	1	2	3				1	4	36
BROWN BULLHEAD	2		1	2	2	4	11	2	4	3	2		2	1		36
TENCH	1	1	2	20	7	16	4	13	13	8	22	5	6	21	4	143
NORTHERN SQUAWFISH	5	6	2	1	1		5	1	1	2	2	1	3	3	3	36
PEAMOUTH	2	1	1				1		1	1				1		8
REDSIDE SHINER																
SCULPIN																
TOTAL	53	34	115	80	89	68	109	68	95	76	107	65	92	84	46	1195

Table A.18 . Percent of each species of fish caught by electrofishing at each Pend Oreille River study site during October, 1990.

STUDY SITE	1	2	3	3A	4	4A	5	5A	6	6A	7	8	9	10	11	TOTAL
BULL TROUT																
CUTTHROAT TROUT																
BROWN TROUT			1.2				1.0				4.6		1.2			0.5
BROOK TROUT																
RAINBOW TROUT																
KOKANEE											1.0					0.1
MOUNTAIN WHITEFISH		26.5	6.9	13.8	1.1		11.9		2.1		4.7	9.2	11.2	2.4	1.7	7.5
LARGEMOUTH BASS	9.4	2.9	16.5	2.5	13.6	33.8	10.1	20.5	10.5	3.9	15.0	1.5		10.7	15.5	11.5
BLACK CRAPPIE	15.1		1.7				1.0	11.5	1.1	1.3		1.5	1.2			2.0
PUMPKINSEED	18.9		14.8	7.5	8.0	13.2	2.8	9.0	23.2	11.8	9.3	13.8	21.2	9.5	13.8	11.8
YELLOW PERCH	26.4	44.1	50.4	20.0	56.8	20.6	35.8	30.8	35.8	53.9	42.1	56.9	51.2	39.3	15.5	39.1
LONGNOSE SUCKER		2.9	1.7	21.2	10.2	2.9	8.2	6.4	5.3	6.6	3.7	3.1		6.0	13.8	6.2
LARGESCALE SUCKER	11.3	2.9	2.6	5.0			10.1	1.3	2.1	3.9				1.2	6.9	3.0
BROWN BULLHEAD	3.8		1.0	2.5	2.2	5.9	10.1	2.5	4.2	3.9	1.9		2.5	1.2		3.0
TENCH	1.9		1.7	25.0	8.0	23.5	3.7	16.7	13.7	10.5	20.6	7.7	7.5	25.0	6.9	11.7
NORTHERN SQUAWFISH	9.4	17.6	1.7	1.2	1.1		4.6	1.3	1.1	2.6	1.9	1.5	3.8	3.6	5.2	3.0
PEAMOUTH	3.8	2.9	1.0				1.0		1.1	1.3				1.2		0.7
REDSIDE SHINER																
SCULPIN																

Table A.19. Number of each species of fish caught by beach seining at each Pend Oreille River study site in July, 1990.

STUDY SITE	4 A	5 A	8 C	9 A	TOTAL
DISTANCE SEINED (M)	91.4	177	91.4	91.4	396.2
LARGEMOUTH BASS	43	6	13	9	71
BLACK CRAPPIE				1	1
PUMPKINSEED	35	12	13	43	103
YELLOW PERCH	5	3			8
SUCKER				1	1
TENCH		1	3		4
TOTAL	83	22	29	54	189

Table A.20. Percent of each species of fish caught by beach seining at each Pend Oreille River study site in July, 1990.

STUDY SITE	4 A	5 A	8 C	9 A	TOTAL
LARGEMOUTH BASS	51.8	27.3	44.8	9.3	35.6
BLACK CRAPPIE				1.9	0.5
PUMPKINSEED	42.2	54.5	44.8	87.0	56.9
YELLOW PERCH	6.0	13.6			4.3
SUCKER				1.9	0.5
TENCH		4.5	10.3		2.1

Table A.21. Number of each species of fish caught by beach seining at each Pend Oreille River study site in August, 1990.

STUDY SITE	4 A	5 A	TOTAL
DISTANCE SEINED (M)	91.5	61	61.7
LARGEMOUTH BASS	1		1
PUMPKINSEED	266	43	309
YELLOW PERCH		7	7
TENCH		2	2
TOTAL	267	52	319

Table A.22. Percent of each species of fish caught by beach seining at each Pend Oreille River study site in August, 1990.

STUDY SITE	4 A	5 A	TOTAL
LARGEMOUTH BASS	0.4		0.3
PUMPKINSEED	99.6	82.7	96.9
YELLOW PERCH		13.5	2.2
TENCH		3.8	0.6

Table A.23. Number of each largemouth bass age class collected during relative abundance electrofishing surveys on the Pend Oreille River, WA (February, 1990 - October, 1990).

Age	2/90	3/90	4/90	5/90	6/90	7/90	8/90	9/90	10/90	TOTAL
0+	8		1		1	2	18	7	5	42
1+	7	6	1	3	7	55	32	37	71	219
2+	17	4	7	11	60	51	18	9	28	205
3+	5		4	6	33	33	25	9	20	135
4+	2	4	9	9	19	26	15	8	13	105
5+	1			1	7	2	12	7	6	36
6+		1	3	2	1		1		3	11
7+		3	1		1				1	6
8+		2	7	11	10	1	2	1	1	35
9+			1	3	3			1		8
10+					7		2			9
11+			1		4		1			6
12+			3	1	4			1		9
13+					1					1
14+		1	1	3	4	2		4		15
TOTAL	40	21	39	50	162	172	126	84	148	842

Table A.24. Percent of each largemouth bass age class collected during relative abundance electrofishing surveys on the Pend Oreille River, WA (February, 1990 - October, 1990).

Age	2/90	3/90	4/90	5/90	6/90	7/90	8/90	9/90	10/90	TOTAL
0+	20.0		2.6		0.6	1.2	14.3	8.3	3.4	5.0
1+	17.5	28.6	2.6	6.0	4.3	32.0	25.4	44.0	48.0	26.0
2+	42.5	19.1	18.0	22.0	37.0	29.7	14.3	10.7	19.0	24.4
3+	12.5		10.3	12.0	20.4	19.2	19.8	10.7	13.5	16.0
4+	5.0	19.1	23.1	18.0	11.7	15.1	11.9	9.5	8.8	12.5
5+	2.5			2.0	4.3	1.2	9.5	8.3	4.1	4.3
6+		4.8	7.7	4.0	0.6		0.8		2.0	1.3
7+		14.3	2.6		0.6				0.7	0.7
8+		9.5	18.0	22.0	6.2	0.6	1.6	1.2	0.7	4.2
9+			2.6	6.0	1.9			1.2		1.0
10+					4.3		1.6			1.1
11+			2.6		2.5		0.8			0.7
12+			7.7	2.0	2.5			1.2		1.1
13+					0.6					0.1
14+		4.8	2.6	6.0	2.5	1.2		4.8		1.8

Table A.25. Number of each yellow perch age class collected during relative abundance electrofishing surveys on the Pend Oreille River, WA (February, 1990 - October, 1990).

Age	2/90	3/90	4/90	5/90	6/90	7/90	8/90	9/90	10/90	TOTAL
0+	3	10	14	6	6	2	23	94	8	166
1+	3	4	7	5	10	40	88	131	12	300
2+	1	10	57	17	11	39	84	144	17	380
3+	5	49	245	124	69	200	101	69	23	885
4+	4	38	125	62	56	131	92	54	24	586
5+	5	79	97	178	140	481	240	225	222	1667
6+	1	4	6	15	13	56	25	45	64	229
7+	1	8	2	18	8	23	31	57	89	237
8+							2		1	3
TOTAL	23	202	553	425	313	972	686	819	460	4453

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Table A.26. Percent of each yellow perch age class collected during relative abundance electrofishing surveys on the Pend Oreille River, WA (February, 1990 - October, 1990).

Age	2/90	3/90	4/90	5/90	6/90	7/90	8/90	9/90	10/90	TOTAL
0+	13.0	5.0	2.5	1.4	1.9	0.2	3.4	11.5	1.7	3.7
1+	13.0	2.0	1.3	1.2	3.2	4.1	12.8	16.0	2.6	6.7
2+	4.3	5.0	10.3	4.0	3.5	4.0	12.2	17.6	3.7	8.5
3+	21.7	24.3	44.3	29.2	22.0	20.6	14.7	8.4	5.0	19.9
4+	17.4	18.8	22.6	14.6	17.9	13.5	13.4	6.6	5.2	13.2
5+	21.7	39.1	17.5	41.9	44.7	49.5	35.0	27.5	48.3	37.4
6+	4.3	2.0	1.1	3.5	4.2	5.8	3.6	5.5	13.9	5.1
7+	4.3	4.0	0.4	4.2	2.6	2.4	4.5	7.0	19.3	5.3
8+							0.3		0.2	0.1

Table A.27. Number of each mountain whitefish age class collected during relative abundance electrofishing surveys on the Pend Oreille River, WA (February, 1990 - October, 1990).

Age	2/90	3/90	4/90	5/90	6/90	7/90	8/90	9/90	10/90	TOTAL
0+						2	23	36	14	75
1+	1	35	51	21	11				23	142
2+	2	17	31	10	4	1		1	6	72
3+	3	45	52	72	5	1	1	1	7	187
4+	7	42	31	51	11	4	8		17	171
5+	1	10	4	9	1	7	9	4	12	57
6+				1		1	2	1		5
TOTAL	14	149	169	164	32	16	43	43	79	709

24 Table A.28. Percent of each mountain whitefish age class collected during relative abundance electrofishing surveys on the Pend Oreille River, WA (February, 1990 - October, 1990).

Age	2/90	3/90	4/90	5/90	6/90	7/90	8/90	9/90	10/90	TOTAL
0+						12.5	53.5	83.7	17.7	10.6
1+	7.1	23.5	30.2	12.8	34.4				29.1	20.0
2+	14.3	11.4	18.3	6.1	12.5	6.3		2.3	7.6	10.2
3+	21.4	30.2	30.8	43.9	15.6	6.3	2.3	2.3	8.9	26.4
4+	50.0	28.2	18.3	31.1	34.4	25.0	18.6		21.5	24.1
5+	7.1	6.7	2.4	5.5	3.1	43.8	20.9	9.3	15.2	8.0
6+				0.6		6.3	4.7	2.3		0.7

Table A.29. Number of each black crappie age class collected during relative abundance electrofishing surveys on the Pend Oreille River, WA (February, 1990 - October, 1990).

Age	2/90	3/90	4/90	5/90	6/90	7/90	8/90	9/90	10/90	TOTAL
0+	4	3	1	1			7	16	7	39
1+	6				1	2	1	10	7	27
2+				1		4	8	4	4	21
3+			1	2		2	2	1	4	12
4+					1					1
5+	1	2		2	13	1			1	20
6+		1	2	11	5	5	2	2		28
7+			1	3				3		7
TOTAL	11	6	5	20	20	14	20	36	23	155

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Table A.30. Percent of each black crappie age class collected during relative abundance electrofishing surveys on the Pend Oreille River, WA (February, 1990 - October, 1990).

Age	2/90	3/90	4/90	5/90	6/90	7/90	8/90	9/90	10/90	TOTAL
0+	36.4	50.0	20.0	5.0			35.0	44.4	30.4	25.2
1+	54.5				5.0	14.3	5.0	27.8	30.4	17.4
2+				5.0		28.6	40.0	11.1	17.4	13.5
3+			20.0	10.0		14.3	10.0	2.8	17.4	7.7
4+					5.0					0.6
5+	9.1	33.3		10.0	65.0	7.1			4.3	12.9
6+		16.7	40.0	55.0	25.0	35.7	10.0	5.6		18.1
7+			20.0	15.0				8.3		4.5

Table A.31. Number of each brown trout age class collected during relative abundance electrofishing surveys on the Pend Oreille River, WA (February, 1990 - October, 1990).

Age	2/90	3/90	4/90	5/90	6/90	7/90	8/90	9/90	10/90	TOTAL
0+						1				1
1+		1	1	1		14				17
2+			3	3	5	1	2	3		17
3+	2	5		2	3		1			13
4+		10	4	3	4		4	1	2	28
5+		1	1	4	2	2	2		1	13
7+						1		1		2
8+		1				1	4			6
9+						1	1	1	4	7
TOTAL	2	18	9	13	14	21	14	6	7	104

Table A.32. Percent of each brown trout age class collected during relative abundance electrofishing surveys on the Pend Oreille River, WA (February, 1990 - October, 1990).

Age	2/90	3/90	4/90	5/90	6/90	7/90	8/90	9/90	10/90	TOTAL
0+						4.8				1.0
1+		5.6	11.1	7.7		66.7				16.3
2+			33.3	23.1	35.7	4.8	14.3	50.0		16.3
3+	100.0	27.8		15.4	21.4		7.1			12.5
4+		55.6	44.4	23.1	28.6		28.6	16.7	28.6	26.9
5+		5.6	11.1	30.8	14.3	9.5	14.3		14.3	12.5
7+						4.8		16.7		1.9
8+		5.6				4.8	28.6			5.8
9+						4.8	7.1	16.7	57.1	6.7

Table A.33. Number of each cutthroat trout age class collected during relative abundance electrofishing surveys on the Pend Oreille River, WA (February, 1990 - October, 1990).

Age	2/90	3/90	4/90	5/90	6/90	7/90	8/90	9/90	10/90	TOTAL
3+		2								2
4+								1		1
5+		3					2			5
TOTAL		5					2	1		8

Table A.34. Percent of each cutthroat trout age class collected during relative abundance electrofishing surveys on the Pend Oreille River, WA (February, 1990 - October, 1990).

Age	2/90	3/90	4/90	5/90	6/90	7/90	8/90	9/90	10/90	TOTAL
3+		40.0								25.0
4+								100.0		12.5
5+		60.0					100.0			62.5

Table A.35. Number of each rainbow trout age class collected during relative abundance electrofishing surveys on the Pend Oreille River, WA (February, 1990 - October, 1990).

Age	2/90	3/90	4/90	5/90	6/90	7/90	8/90	9/90	10/90	TOTAL
1+						1		1		2
2+				1	2					3
3+			2		1				1	4
4+				1						1
TOTAL			2	2	3	1		1	1	10

Table A.36. Percent of each rainbow trout age class collected during relative abundance electrofishing surveys on the Pend Oreille River, WA (February, 1990 - October, 1990).

Age	2/90	3/90	4/90	5/90	6/90	7/90	8/90	9/90	10/90	TOTAL
1+						100.0		100.0		20.0
2+				50.0	66.7					30.0
3+			100.0		33.3				100.	40.0
4+				50.0						10.0

Table A.37. Number of each kokanee age class collected during relative abundance electrofishing surveys on the Pend Oreille River, WA (February, 1990 - October, 1990).

Age	2/90	3/90	4/90	5/90	6/90	7/90	8/90	9/90	10/90	TOTAL
1+	2	1	2	2		1				8
2+					19	3			1	23
3+		1								1
TOTAL	19									32

Table A.38. Percent of each kokanee age class collected during relative abundance electrofishing surveys on the Pend Oreille River, WA (February, 1990 - October, 1990).

Age	2/90	3/90	4/90	5/90	6/90	7/90	8/90	9/90	10/90	TOTAL
1+	100.0	50.0	100.0	100.0		25.0				25.0
2+					100.0	75.0			100.0	71.9
3+		50.0								3.1

Table A.39. Number of each pumpkinseed age class collected during relative abundance electrofishing surveys on the Pend Oreille River, WA (February, 1990 - October, 1990).

Age	2/90	3/90	4/90	5/90	6/90	7/90	8/90	9/90	10/90	TOTAL
0+	3					1	4	7	10	25
1+	10	1	1			5	6	10	8	41
2+	14	5	1	2	3	16	36	21	15	113
3+	17	1	1		9	43	42	23	16	152
4+	17	2		7	16	57	25	35	16	175
5+	16	3	6	12	20	79	38	21	25	220
6+	9	6	11	15	24	55	37	40	33	230
7+	1		7	5	3	10	5	10	13	54
8+	1	2	1		3	2	1		6	16
TOTAL	88	20	28	41	78	268	194	167	142	1026

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Table A.40. Percent of each pumpkinseed age class collected during relative abundance electrofishing surveys on the Pend Oreille River, WA (February, 1990 - October, 1990).

Age	2/90	3/90	4/90	5/90	6/90	7/90	8/90	9/90	10/90	TOTAL
0+	3.4					0.4	2.1	4.2	7.0	2.4
1+	11.4	5.0	3.6			1.9	3.1	6.0	5.6	4.0
2+	15.9	25.0	3.6	4.9	3.9	6.0	18.6	12.6	10.6	11.0
3+	19.3	5.0	3.6		11.5	16.0	21.7	13.8	11.3	14.8
4+	19.3	10.0		17.1	20.5	21.3	12.9	21.0	11.3	17.1
5+	18.2	15.0	21.4	29.3	25.6	29.5	19.6	12.6	17.6	21.4
6+	10.2	30.0	39.3	36.6	30.8	20.5	19.1	24.0	23.2	22.4
7+	1.1		25.0	12.2	3.9	3.7	2.6	6.0	9.2	5.3
8+	1.1	10.0	3.6		3.9	0.8	0.5		4.2	1.6

Table A.41. Number of each tench age class collected during relative abundance electrofishing surveys on the Pend Oreille River, WA (February, 1990 - October, 1990).

Age	2/90	3/90	4/90	5/90	6/90	7/90	8/90	9/90	10/90	TOTAL
0+	7	3		3		1			3	17
1+	4	3		5	6	1	1		23	43
2+	3	4	1	2	11	6	1	1	9	38
3+	7	6	1	6	9	8	3	2	7	49
4+	8	4	4	14	15	25	12	3	9	94
5+	11	10	5	15	24	43	26	9	4	147
6+	11	18	14	20	35	86	41	20	26	271
7+	8	47	21	36	28	79	25	10	47	301
8+	6	13	3	18	8	10	5	7	15	85
TOTAL	65	108	49	119	136	259	114	52	143	1045

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Table A.42. Percent of each tench age class collected during relative abundance electrofishing surveys on the Pend Oreille River, WA (February, 1990 - October, 1990).

Age	2/90	3/90	4/90	5/90	6/90	7/90	8/90	9/90	10/90	TOTAL
0+	10.8	2.8		2.5		0.4			2.1	1.6
1+	6.2	2.8		4.2	4.4	0.4	0.9		16.1	4.1
2+	4.6	3.7	2.0	1.7	8.1	2.3	0.9	1.9	6.3	3.6
3+	10.8	5.6	2.0	5.0	6.6	3.1	2.6	3.8	4.9	4.7
4+	12.3	3.7	8.2	11.8	11.0	9.7	10.5	5.8	6.3	9.0
5+	16.9	9.3	10.2	12.6	17.6	16.6	22.8	17.3	2.8	14.1
6+	16.9	16.7	28.6	16.8	25.7	33.2	36.0	38.5	18.2	25.9
7+	12.3	43.5	42.9	30.3	20.6	30.5	21.9	19.2	32.9	28.8
8+	9.2	12.0	6.1	15.1	5.9	3.9	4.4	13.5	10.5	8.1

Table A.43. Number of each squawfish age class collected during relative abundance electrofishing surveys on the Pend Oreille River, WA (February, 1990 - October, 1990).

Age	2/90	3/90	4/90	5/90	6/90	7/90	8/90	9/90	10/90	TOTAL
0+	2	1				1	3	1		8
1+							1		4	5
2+		1	4		6				1	12
3+	9	7	11	15	48	6	8	8	6	118
4+	1	11	4	7	12	1	5	12	16	69
5+	2	4	2	6	9	4	4	4	8	43
6+	1	1	1	1	2	1	1			8
7+	1	3	3	3			2			12
8+	1	2	1							4
9+				1			1	1	1	4
10+		1								1
TOTAL	17	31	26	33	77	13	25	26	36	284

Table A.44. Percent of each squawfish age class collected during relative abundance electrofishing surveys on the Pend Oreille River, WA (February, 1990 - October, 1990).

Age	2/90	3/90	4/90	5/90	6/90	7/90	8/90	9/90	10/90	TOTAL
0+	11.8	3.2				7.7	12.0	3.8		2.8
1+							4.0		11.1	1.8
2+		3.2	15.4		7.8				2.8	4.2
3+	52.9	22.6	42.3	45.5	62.3	46.2	32.0	30.8	16.7	41.5
4+	5.9	35.5	15.4	21.2	15.6	7.7	20.0	46.2	44.4	24.3
5+	11.8	12.9	7.7	18.2	11.7	30.8	16.0	15.4	22.2	15.1
6+	5.9	3.2	3.8	3.0	2.6	7.7	4.0			2.8
7+	5.9	9.7	11.5	9.1			8.0			4.2
8+	5.9	6.5	3.8							1.4
9+				3.0			4.0	3.8	2.8	1.4
10+		3.2								0.4

Table A.45. Number of each largescale sucker age class collected during relative abundance electrofishing surveys on the Pend Oreille River, WA (February, 1990 - October, 1990).

Age	2/90	3/90	4/90	5/90	6/90	7/90	8/90	9/90	10/90	TOTAL
2+					1	1	1			3
3+				3			1			4
4+		2	1	1			2	1	1	8
5+	1	6	6	5	8	5	6	4	3	44
6+	5	21	12	23	32	3	8	17	6	127
7+	14	8	22	25	37	5	7	11	3	132
8+	9	24	19	34	18	2	8	11	11	136
9+	2	18	16	5	14	3	10	9	8	85
10+		6	13	10	4		3	2	4	42
11+		1	7			1				9
TOTAL	31	86	96	106	114	20	46	55	36	590

Table A.46. Percent of each largescale sucker age class collected during relative abundance electrofishing surveys on the Pend Oreille River, WA (February, 1990 - October, 1990).

Age	2/90	3/90	4/90	5/90	6/90	7/90	8/90	9/90	10/90	TOTAL
2+					0.9	5.0	2.2			0.5
3+				2.8			2.2			0.7
4+		2.3	1.0	0.9			4.4	1.8	2.8	1.4
5+	3.2	7.0	6.3	4.7	7.0	25.0	13.0	7.3	8.3	7.5
6+	16.1	24.4	12.5	21.7	28.1	15.0	17.4	30.9	16.7	21.5
7+	45.2	9.3	22.9	23.6	32.5	25.0	15.2	20.0	8.3	22.4
8+	29.0	27.9	19.8	32.1	15.8	10.0	17.4	20.0	30.6	23.1
9+	6.5	20.9	16.7	4.7	12.3	15.0	21.7	16.4	22.2	14.4
10+		7.0	13.5	9.4	3.5		6.5	3.6	11.1	7.1
11+		1.2	7.3			5.0				1.5

Table A.47. Number of each longnose sucker age class collected during relative abundance electrofishing surveys on the Pend Oreille River, WA (February, 1990 - October, 1990).

Age	2/90	3/90	4/90	5/90	6/90	7/90	8/90	9/90	10/90	TOTAL
0+	8	2		1	1	3	15	3	17	50
1+					1		12	2	14	29
2+									2	2
3+	1				1		2	2		6
4+	3	3	3	1	1	6	11	6	2	36
5+	1		2	2	1	6	5	6	1	24
6+	2	2	4	1	3	3	4	2	4	25
7+	9	16	12	21	18	22	29	28	35	190
TOTAL	24	23	21	26	26	40	78	49	75	362

3 Table A.48. Percent of each longnose sucker age class collected during relative abundance electrofishing surveys on the Pend Oreille River, WA (February, 1990 - October, 1990).

Age	2/90	3/90	4/90	5/90	6/90	7/90	8/90	9/90	10/90	TOTAL
0+	33.3	8.7		3.8	3.8	7.5	19.2	6.1	22.7	13.8
1+					3.8		15.4	4.1	18.7	8.0
2+								2.7	0.6	
3+	4.2				3.8		2.6	4.1		1.7
4+	12.5	13.0	14.3	3.8	3.8	15.0	14.1	12.2	2.7	9.9
5+	4.2		9.5	7.7	3.8	15.0	6.4	12.2	1.3	6.6
6+	8.3	8.7	19.0	3.8	11.5	7.5	5.1	4.1	5.3	6.9
7+	37.5	69.6	57.1	80.8	69.2	55.0	37.2	57.1	46.7	52.5

Table A.49. Number of each peamouth age class collected during relative abundance electrofishing surveys on the Pend Oreille River, WA (February, 1990 - October, 1990).

Age	2/90	3/90	4/90	5/90	6/90	7/90	8/90	9/90	10/90	TOTAL
0+	1	1	8	2	1	1	1		5	20
1+			1							1
2+		1	1	1	2					5
3+		11	7	2	3					23
4+		14	6	8	4	1	1	1	2	37
5+		8	3	1	3	14	1	1	1	32
TOTAL	1	35	26	14	13	16	3	2	8	118

Table A.50. Percent of each peamouth age class collected during relative abundance electrofishing surveys on the Pend Oreille River, WA (February, 1990 - October, 1990).

Age	2/90	3/90	4/90	5/90	6/90	7/90	8/90	9/90	10/90	TOTAL
0+	100.0	2.9	30.8	14.3	7.7	6.3	33.3		62.5	16.9
1+			3.8							0.8
2+		2.9	3.8	7.1	15.4					4.2
3+		31.4	26.9	14.3	23.1					19.5
4+		40.0	23.1	57.1	30.8	6.3	33.3	50.0	25.0	31.4
5+		22.9	11.5	7.1	23.1	87.5	33.3	50.0	12.5	27.1

Table A.51. Number of each brown bullhead length range collected during relative abundance electrofishing surveys on the Pend Oreille River, WA (February, 1990 - October, 1990).

Length	2/90	3/90	4/90	5/90	6/90	7/90	8/90	9/90	10/90	TOTAL
0-100				1						1
101-150	1								1	2
151-200	2	9	2	2	3	1		1		20
201-250	1	16	27	18	14	12	6	9	28	131
251-300	1	2	3	6	7	2		1	7	29
301-350			1	1						2
TOTAL	5	27	33	28	24	15	6	11	36	185

Table A.52. Percent of each brown bullhead length range collected during relative abundance electrofishing surveys on the Pend Oreille River, WA (February, 1990 - October, 1990).

Length	2/90	3/90	4/90	5/90	6/90	7/90	8/90	9/90	10/90	TOTAL
0-100				3.6						0.5
101-150	20.0								2.8	1.1
151-200	40.0	33.3	6.1	7.1	12.5	6.7		9.1		10.8
201-250	20.0	59.3	81.8	64.3	58.3	80.0	100.0	81.8	77.8	70.8
251-300	20.0	7.4	9.1	21.4	29.2	13.3		9.1	19.4	15.7
301-350			3.0	3.6						1.1

Table A.53. Number of each brook trout age class collected during relative abundance electrofishing surveys on the Pend Oreille River, WA (February, 1990 - October, 1990).

Age	2/90	3/90	4/90	5/90	6/90	7/90	8/90	9/90	10/90	TOTAL
1+					1					1
2+				1						1
3+	1									1
TOTAL	1			1	1					3

Table A.54. Percent of each brook trout age class collected during relative abundance electrofishing surveys on the Pend Oreille River, WA (February, 1990 - October, 1990).

Age	2/90	3/90	4/90	5/90	6/90	7/90	8/90	9/90	10/90	TOTAL
1+					100.0					33.3
2+				100.0						33.3
3+	100.0									33.3

APPENDIX B

**MONTHLY MARK AND RECAPTURE DATA
FOR EACH FISH SPECIES IN THE RIVER
AND POPULATION ESTIMATION DATA
FOR EACH FISH SPECIES
IN THE TRIBUTARIES**

Table B.1. Number of yellow perch one year and older caught, marked, and recaptured in the Pend Oreille River, during February through October, 1990.

MONTH	#CAUGHT (CT)	RECAP (Rt)	# MARKED	TOTAL MARKED(Mt)	CtMt	SCHNABEL	LOWER LIMIT	UPPER LIMIT
9002	20	0	9	0	0			
9003	192	0	192	9	1728			
9004	539	1	465	201	108339			
9005	419	1	418	666	279054			
9006	307	2	305	1084	332788			
9007	970	2	895	1389	1347330			
9008	663	3	660	2284	1514292			
9009	725	3	670	2944	2134400			
9010	452	5		3614	1633528			
Total	4287	17	3614	12191	7351459	432439	270274	742572
					River estimate	8804453	5502783	15118758

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Table B.2. Number of pumpkinseed one year and older caught, marked, and recaptured in the Pend Oreille River, during February through October, 1990.

MONTH	#CAUGHT (CT)	RECAP (Rt)	# MARKED	TOTAL MARKED(Mt)	CtMt	SCHNABEL	LOWER LIMIT	UPPER LIMIT
9002	85	0	85	0	0			
9003	20	0	20	85	1700			
9004	28	1	22	105	2940			
9005	41	0	41	127	5207			
9006	78	0	78	168	13104			
9007	300	0	298	246	65682			
9008	190	1	189	511	97090			
9009	160	0	160	700	112000			
9010	132	0		860	113520			
Total	1001	2	860	2802	411243	205622	57117	2056215
					River Estimate	4431018	1230838	44310181

Table 8.3. Number of tench one year and older caught, marked, and recaptured in the Pend Oreille River, during February through October, 1990.

MONTH	#CAUGHT (CT)	RECAP (Rt)	# MARKED	TOTAL MARKED(Mt)	CtMt	SCHNABEL	LOWER LIMIT	UPPER LIMIT
9002	58	0	58	0	0			
9003	105	0	105	58	6090			
9004	49	1	39	163	7987			
9005	116	0	116	202	23432			
9006	136	1	134	318	43248			
9007	258	2	256	452	116616			
9008	114	1	113	708	80712			
9009	52	1	51	821	42692			
9010	140	3		872	122080			
Total	1028	9	872	3594	442857	49206	25898	110714
					River Estimate	1001841	527285	2254142

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Table 8.4. Number of largemouth bass one year and older caught, marked, and recaptured in the Pend Oreille River, during February through October, 1990.

MONTH	#CAUGHT (CT)	RECAP (Rt)	# MARKED	TOTAL MARKED(Mt)	CtMt	SCHNABEL	LOWER LIMIT	UPPER LIMIT
9002	32	0	32	0	0			
9003	21	0	19	32	672			
9004	38	0	21	51	1938			
9005	50	1	49	72	3600			
9006	161	1	160	121	19481			
9007	170	3	91	281	47770			
9008	108	0	102	372	40176			
9009	77	3	39	474	36498			
9010	144	0		513	73872			
Total	801	8	513	1916	224007	28001	14178	65884
					River Estimate	570098	288657	1341407

Table B.5. Number of squawfish one year and older caught, marked, and recaptured in the Pend Oreille River, during February through October, 1990.

MONTH	#CAUGHT (CT)	RECAP (Rt)	# MARKED	TOTAL MARKED(Mt)	CtMt	SCHNABEL	LOWER LIMIT	UPPER LIMIT
9002	15	0	15	0	0			
9003	30	0	30	15	450			
9004	26	0	3	45	1170			
9005	33	0	33	48	1584			
9006	77	0	77	81	6237			
9007	12	1	11	158	1896			
9008	22	0	22	169	3718			
9009	25	1	24	191	4775			
9010	36	0		215	7740			
Total	276	2	215	922	27570	13785	3829	137850
					River Estimate	280663	77962	2806626

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Table B.6. Number of largescale sucker one year and older caught, marked, and recaptured in the Pend Oreille River, during February through October, 1990.

MONTH	#CAUGHT (CT)	RECAP (Rt)	# MARKED	TOTAL MARKED(Mt)	CtMt	SCHNABEL	LOWER LIMIT	UPPER LIMIT
9002	86	0	31	0	0			
9003	96	0	84	31	2976			
9004	106	1	89	115	12190			
9005	114	2	102	204	23256			
9006	20	1	111	306	6120			
9007	46	0	20	417	19182			
9008	55	1	45	437	24035			
9009	36	4	51	482	17352			
9010		2		533	0			
Total	559	11	533	2525	105111	9556	5336	19465
					River Estimate	194551	108632	396307

Table 8.7. Number of longnose sucker one year and older caught, marked, and recaptured in the Pend Oreille River, during February through October, 1990.

MONTH	#CAUGHT (CT)	RECAP (Rt)	# MARKED	TOTAL MARKED(Mt)	CtMt	SCHNABEL	LOWER LIMIT	UPPER LIMIT
9002	24		24	0	0			
9003	21	0	21	24	504			
9004	15	0	15	45	675			
9005	26	0	26	60	1560			
9006	25	0	25	86	2150			
9007	37	1	36	111	4107			
9008	63	0	63	147	9261			
9009	47	1	46	210	9870			
9010	58	2		256	14848			
Total	316	4	256	939	42975	10744	4213	42975
					River Estimate	218743	85781	874971

Table 8.8. Number of mountain whitefish one year and older caught, marked, and recaptured in the Pend Oreille River, during February through October, 1990.

MONTH	#CAUGHT (CT)	RECAP (Rt)	# MARKED	TOTAL MARKED(Mt)	CtMt	SCHNABEL	LOWER LIMIT	UPPER LIMIT
9002	14	0	14	0	0	0		
9003	149	0	149	14	2086			
9004	169	1	96	163	27547			
9005	164	2	162	259	42476			
9006	32	1	31	421	13472			
9007	16	1	1	452	7232			
9008	20	2	17	453	9060			
9009	8	7	1	471	3768			
9010	53	1		472	30208			
Total	625	10	471	2705	135849	13585	7383	28904
					River Estimate	265893	144507	565731

Table B.9. Number of peamouth one year and older caught, marked, and recaptured in the Pend Oreille River, during February through October, 1990.

MONTH	#CAUGHT (CT)	RECAP (Rt)	# MARKED	TOTAL MARKED(Mt)	CtMt	SCHNABEL	LOWER LIMIT	UPPER LIMIT
9002	1	0	1	0	0			
9003	34	0	34	1	34			
9004	18	1	14	35	630			
9005	12	0	12	49	588			
9006	12	0	12	61	732			
9007	15	0	15	73	1095			
9008	2	0	2	88	176			
9009	2	0	2	90	180			
9010	3	0		92	276			
Total	99	1	92	404	3711	3711	663	37110
					River Estimate	75556	13492	755560

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Table B.10. Number of black crappie one year and older caught, marked, and recaptured in the Pend Oreille River, during February through October, 1990.

MONTH	#CAUGHT (CT)	RECAP (Rt)	# MARKED	TOTAL MARKED(Mt)	CtMt	SCHNABEL	LOWER LIMIT	UPPER LIMIT
9002	7	0	7	0	0			
9003	3	0	3	7	21			
9004	4	0	0	10	40			
9005	19	0	19	10	190			
9006	19	0	19	29	551			
9007	14	1	7	40	672			
9008	13	0	13	50	650			
9009	20	0	2	63	1260			
9010	17	0		65	1105			
Total	116	1	65	282	4489	4489	802	44890
					River estimate	91396	16321	913960

Table 8.11. Number of fish caught in each pass of a removal-depletion population estimate, estimated population ($N \pm 95\%$ confidence intervals) and fish density for each species of trout, at each reach, in LeClerc Creek on September 11, and September 19, 1990.

REACH #: 1 DATE: 9-11-90 LENGTH: 300 ft MEAN WIDTH: 34.5 ft AREA (M^2): 930.8

SPECIES	#1ST PASS	#2ND PASS	#3RD PASS	#4TH PASS	N	$\pm$ C.I.	#/100 M^2
Brown trout	5.0	1.0	-		6.2	1.5	0.7 ± 0.2
Brook trout	10.0	7.0			33.3	62.8	3.6 ± 6.8
Rainbow trout	0.0	1.0			≥ 1.0		

REACH #: 2 DATE: 9-19-90 LENGTH: 240 ft MEAN WIDTH: 21.4 ft AREA (M^2): 577.5

SPECIES	#1ST PASS	#2ND PASS	#3RD PASS	#4TH PASS	N	$\pm$ C.I.	#/100 M^2
Brown trout	8.0	0.0			8.0	0.0	1.4 ± 0.0
Brook trout	8.0	2.0			10.7	2.8	1.8 ± 0.5
Cutthroat trout	0.0	2.0			≥ 2.0		0.3

REACH #: 3 DATE: 9-11-90 LENGTH: 300 ft MEAN WIDTH: 25.8 ft AREA (M^2): 697.1

SPECIES	#1ST PASS	#2ND PASS	#3RD PASS	#4TH PASS	N	$\pm$ C.I.	#/100 M^2
Brown trout	0.0	1.0			≥ 1.0		
Brook trout	13.0	1.0			14.1	0.7	2.0 ± 0.1
Cutthroat trout	1.0	0.0			1.0	0.0	0.1 ± 0.0

REACH #: 4 DATE: 9-11-90 LENGTH: 300 ft MEAN WIDTH: 23.4 ft AREA (M^2): 632.0

SPECIES	#1ST PASS	#2ND PASS	#3RD PASS	#4TH PASS	N	$\pm$ C.I.	#/100 M^2
Brown trout	1.0	0.0			1.0	0.0	0.2 ± 0.0
Brook trout	26.0	7.0			35.6	5.7	5.6 ± 0.9

Table 8.12. Number of fish caught in each pass of a removal-depletion population estimate, estimated population ($N \pm 95\%$ confidence intervals) and fish density for each species of trout, at each reach, in Ruby Creek on September 5, 1990.

REACH #: 1 DATE: 9-5-90 LENGTH: 300 ft MEAN WIDTH: 16.9 ft AREA (M^2): 456.5

SPECIES	#1ST PASS	#2ND PASS	#3RD PASS	#4TH PASS	N	$\pm$ C.I.	#/100 M^2
Brown trout	1.0	0.0			1.0	0.0	0.2 ± 0.0
Brook trout	7.0	6.0	2.0		15.8	2.1	3.5 ± 0.5
Rainbow trout	1.0	0.0			1.0	0.0	0.2 ± 0.0
Mountain whitefish	2.0	1.0			4.0	6.8	0.9 ± 1.5

REACH #: 2 DATE: 9-5-90 LENGTH: 360 ft MEAN WIDTH: 23.0ft AREA (M^2): 745.2

SPECIES	#1ST PASS	#2ND PASS	#3RD PASS	#4TH PASS	N	$\pm$ C.I.	#/100 M^2
Brook trout	37.0	7.0			45.6	3.7	6.1 ± 0.5
Cutthroat trout	1.0	0.0			1.0	0.0	0.1 ± 0.0

REACH #: 3 DATE: 9-5-90 LENGTH: 300 ft MEAN WIDTH: 20.911 AREA (M^2): 564.3

SPECIES	#1ST PASS	#2ND PASS	#3RD PASS	#4TH PASS	N	$\pm$ C.I.	#/100 M^2
Brook trout	21.0	8.0			33.9	10.5	6.0 ± 1.9

REACH #:4 DATE: 9-5-90 LENGTH: 300 ft MEAN WIDTH: 8.9 ft AREA (M^2): 240.3

SPECIES	#1ST PASS	#2ND PASS	#3RD PASS	#4TH PASS	N	$\pm$ C.I.	#/100 M^2
Brook trout	65.0	26.0			108.3	20.8	45.1 ± 8.7

Table 8.13. Number of fish caught in each pass of a removal-depletion population estimate, estimated population ($N \pm 95\%$ confidence intervals) and fish density for each species of trout, at each reach, in Cee Cee Ah Creek on September 10, and September 11, 1990.

REACH #: 1 DATE: 9-I I-90 LENGTH: 300 ft MEAN WIDTH: 15.4 ft AREA (M^2): 416.3

SPECIES	#1ST PASS	#2ND PASS	#3RD PASS	#4TH PASS	N	$\pm$ C.I.	#/100 M^2
Brown trout	44.0	6.0			50.9	2.5	12.2 $\pm$ 0.6
Brook trout	1.0	0.0			1.0	0.0	0.2 $\pm$ 0.0

REACH #: 2 DATE: g-10-90 LENGTH: 300 ft MEAN WIDTH: 13.2 ft AREA (M^2): 357.8

SPECIES	#1ST PASS	#2ND PASS	#3RD PASS	#4TH PASS	N	$\pm$ C.I.	#/100 M^2
Brown trout	9.0	6.0			27.0	45.5	7.5 $\pm$ 12.7
Brook trout	6.0	1.0			7.2	1.2	2.0 $\pm$ 0.3
Cutthroat trout	14.0	5.0			21.8	7.4	6.1 $\pm$ 2.1

REACH #: 3 DATE: 9-I O-90 LENGTH: 300 ft MEAN WIDTH: 8.4 ft AREA (M^2): 226.8

SPECIES	#1ST PASS	#2ND PASS	#3RD PASS	#4TH PASS	N	$\pm$ C.I.	#/100 M^2
Brook trout	25.0	7.0			34.7	6.0	15.3 $\pm$ 2.7

REACH #:4 DATE: g-10-90 LENGTH: 300 ft MEAN WIDTH: 11.4 ft AREA (M^2): 308.5

SPECIES	#1ST PASS	#2ND PASS	#3RD PASS	#4TH PASS	N	$\pm$ C.I.	#/100 M^2
Brook trout	20.0	10.0			40.0	21.5	13.0 $\pm$ 7.0

Table 8.14. Number of fish caught in each pass of a removal-depletion population estimate, estimated population ($N \pm 95\%$ confidence intervals) and fish density for each species of trout, at each reach, in Tacoma Creek on September 6, 1990.

REACH #: 1 DATE: 9-6-90 LENGTH: 300 ft MEAN WIDTH: 20.8 ft AREA (M^2): 561.6

SPECIES	#1ST PASS	#2ND PASS	#3RD PASS	#4TH PASS	N	$\pm$ C.I.	#/100 M^2
Brown trout	1.0	0.0			1.0		0.2
Brook trout	7.0	2.0			9.8	3.3	1.7 $\pm$ 0.6

REACH #: 2 DATE: 9-6-90 LENGTH: 150 ft MEAN WIDTH: 27.8ft AREA (M^2): 374.8

SPECIES	#1ST PASS	#2ND PASS	#3RD PASS	#4TH PASS	N	$\pm$ C.I.	#/100 M^2
Brook trout	17.0	3.0			20.6	2.3	5.5 $\pm$ 0.6
Cutthroat trout	2.0	1.0			4.0	6.8	1.1 $\pm$ 1.8

REACH #: 3 DATE: 9-6-90 LENGTH: 300 ft MEAN WIDTH: 19.411 AREA (M^2): 522.6

SPECIES	#1ST PASS	#2ND PASS	#3RD PASS	#4TH PASS	N	$\pm$ C.I.	#/100 M^2
Brook trout	45.0	12.0			61.4	8.0	11.7 $\pm$ 1.5
Cutthroat trout	6.0	1.0			7.2	1.2	1.4 $\pm$ 0.23

REACH #:4 DATE: 9-10-90 LENGTH: 300 ft MEAN WIDTH: 11.4 ft AREA (M^2): 308.5

SPECIES	#1ST PASS	#2ND PASS	#3RD PASS	#4TH PASS	N	$\pm$ C.I.	#/100 M^2
Brook trout	73.0	21.0			102.5	10.7	17.7 $\pm$ 1.9
Cutthroat trout	16.0	5.0			23.3	5.9	4.0 $\pm$ 1.0

Table 8.15. Number of fish caught in each pass of a removal-depletion population estimate, estimated population ($N \pm 95\%$ confidence intervals) and fish density for each species of trout, at each reach, in Skookum Creek on September 12,1990.

REACH #: 1 DATE: g-12-90 LENGTH: 300 ft MEAN WIDTH: 12.4 ft AREA (M^2): 334.8

SPECIES	#1ST PASS	#2ND PASS	#3RD PASS	#4TH PASS	N	$\pm$ C.I.	#/100 M^2
Brown trout	15.0	6.0			25.0	10.0	7.5 $\pm$ 3.0
Brook trout	1.0	0.0			1.0	0.0	0.3 $\pm$ 0.0

REACH #: 2 DATE: g-12-90 LENGTH: 300 ft MEAN WIDTH: 13.0ft AREA (M^2): 350.0

SPECIES	#1ST PASS	#2ND PASS	#3RD PASS	#4TH PASS	N	$\pm$ C.I.	#/100 M^2
Brown trout	16.0	7.0			28.4	13.0	8.1 $\pm$ 3.7
Brook trout	2.0	2.0					

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REACH #: 3 DATE: g-12-90 LENGTH: 300 ft MEAN WIDTH: 12.1ft AREA (M^2): 326.0

SPECIES	#1ST PASS	#2ND PASS	#3RD PASS	#4TH PASS	N	$\pm$ C.I.	#/100 M^2
Brook trout	13.0	3.0			16.9	3.1	5.2 $\pm$ 1.0
Cutthroat trout	1.0	1.0					

REACH #:4 DATE: g-12-90 LENGTH: 300 ft MEAN WIDTH: 19.4 ft AREA (M^2): 523.8

SPECIES	#1ST PASS	#2ND PASS	#3RD PASS	#4TH PASS	N	$\pm$ C.I.	#/100 M^2
Brook trout	99.0	38.0			160.7	23.2	30.7 $\pm$ 4.4
Cutthroat trout	0.0	1.0			21.0		>0.2

APPENDIX C

MONTHLY BENTHIC MACROINVERTEBRATE DENSITIES IN THE PEND OREILLE RIVER AND TRIBUTARIES

Table C.I. Mean number ($\pm$ standard deviation) of benthic macroinvertebrates per square meter in the Pend Oreille River at each study site for April, 1990.

	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6	Site 7	Site 8	Site 9	Site 10	Site 11
TRICHOPTERA											
Hydroptilidae			63 $\pm$ 109				63 $\pm$ 109				
Polycentropodidae	126 $\pm$ 218										
EPHEMEROPTERA											
Baetidae			63 $\pm$ 109	63 $\pm$ 109		63 $\pm$ 109	94 $\pm$ 133				
Tricorythidae			440 $\pm$ 475	63 $\pm$ 109	189 $\pm$ 327	189 $\pm$ 327			126 $\pm$ 218	377 $\pm$ 654	
COLEOPTERA											
Elmidae	63 $\pm$ 109		63 $\pm$ 109	63 $\pm$ 109		189 $\pm$ 189	189 $\pm$ 327				126 $\pm$ 218
DIPTERA											
Chironomidae larvae	943 $\pm$ 1474	1195 $\pm$ 1284	21231 $\pm$ 14653	3154 $\pm$ 4353	6667 $\pm$ 11057	1653 $\pm$ 1325	18113 $\pm$ 22259	3679 $\pm$ 5203	1447 $\pm$ 1571	2704 $\pm$ 3572	881 $\pm$ 763
Chironomidae pupae		189 $\pm$ 189	126 $\pm$ 218	126 $\pm$ 218	440 $\pm$ 475	943 $\pm$ 822	1887 $\pm$ 2621	1038 $\pm$ 1468	252 $\pm$ 109	755 $\pm$ 998	440 $\pm$ 607
Ceratopogonidae			63 $\pm$ 109						63 $\pm$ 109		
Simuliidae			63 $\pm$ 109		63 $\pm$ 109			189 $\pm$ 267			
ODONATA											
Coenagrionidae			126 $\pm$ 218	63 $\pm$ 109		63 $\pm$ 109	252 $\pm$ 436		63 $\pm$ 109		
HYDRACARINA	63 $\pm$ 109		692 $\pm$ 545	377 $\pm$ 654	63 $\pm$ 109		126 $\pm$ 218	94 $\pm$ 133	189 $\pm$ 189	252 $\pm$ 436	189 $\pm$ 327
AMPHIPODA	189 $\pm$ 327	315 $\pm$ 288	4088 $\pm$ 4345	943 $\pm$ 1051	881 $\pm$ 1525	943 $\pm$ 1474	943 $\pm$ 943	283 $\pm$ 400	189 $\pm$ 327	1635 $\pm$ 2513	315 $\pm$ 545
Oligochaeta	1008 $\pm$ 1416	315 $\pm$ 393	440 $\pm$ 607								
MOLLUSCA											
Lymnaeidae						63 $\pm$ 109	440 $\pm$ 763			315 $\pm$ 545	
Planorbidae		252 $\pm$ 218	629 $\pm$ 576	252 $\pm$ 576	252 $\pm$ 436	1006 $\pm$ 1743	1509 $\pm$ 1677	94 $\pm$ 133		818 $\pm$ 393	126 $\pm$ 109
BIVALVIA											
Sphaeriidae	189 $\pm$ 327	63 $\pm$ 109	252 $\pm$ 436		189 $\pm$ 189	755 $\pm$ 680	755 $\pm$ 1307		63 $\pm$ 109	377 $\pm$ 654	377 $\pm$ 377
TERRESTRIALS	63 $\pm$ 109										
TOTAL	2,642	2,329	28,429	5,095	8,744	5,786	24,340	5,471	2,392	7,233	2,454

Table C.2. Mean number ($\pm$ standard deviation) of benthic macroinvertebrates per square meter in the Pend Oreille River at each study site for July, 1990.

	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6	Site 7	Site 8	Site 9	Site 10	Site 11
TRICHOPTERA											
Limnephilidae								63 $\pm$ 109			
EPHEMEROPTERA											
Baetidae			189 $\pm$ 189		252 $\pm$ 218	63 $\pm$ 109			252 $\pm$ 288	126 $\pm$ 218	
Ephemerellidae				63 $\pm$ 109	126 $\pm$ 218						
Leptophlebiidae										63 $\pm$ 109	
Tricorythidae						692 $\pm$ 663	629 $\pm$ 786	189 $\pm$ 327			
COLEOPTERA											
Elmidae larvae	63 $\pm$ 109			63 $\pm$ 109	315 $\pm$ 545					440 $\pm$ 607	
Elmidae adult										63 $\pm$ 109	
DIPTERA											
Chironomidae larvae	126 $\pm$ 218			566 $\pm$ 680	377 $\pm$ 377	503 $\pm$ 872	126 $\pm$ 109		126 $\pm$ 218	126 $\pm$ 218	377 $\pm$ 654
Chironomidae pupae											
Simuliidae											63 $\pm$ 109
Tipulidae		252 $\pm$ 436									
HEMIPTERA											
Corixidae			63 $\pm$ 109								
HYDRACARINA				126 $\pm$ 218						63 $\pm$ 109	
AMPHIPODA	63 $\pm$ 109	440 $\pm$ 607	63 $\pm$ 109	881 $\pm$ 1213	692 $\pm$ 663	2264 $\pm$ 2101	755 $\pm$ 327	1698 $\pm$ 1800	818 $\pm$ 545	1447 $\pm$ 1256	503 $\pm$ 872
OLIGOCHAETA	10063 $\pm$ 9423		252 $\pm$ 436	126 $\pm$ 218	315 $\pm$ 393	1447 $\pm$ 2187	566 $\pm$ 654	252 $\pm$ 218	189 $\pm$ 189		126 $\pm$ 218
TURBELLARIA											
Planaridae	63 $\pm$ 109		63 $\pm$ 109								
MOLLUSCA											
Lymnaeidae		63 $\pm$ 109					63 $\pm$ 109				
Physidae		63 $\pm$ 109				63 $\pm$ 109				63 $\pm$ 109	
Planorbidae		315 $\pm$ 393			126 $\pm$ 218	189 $\pm$ 189	818 $\pm$ 1256	63 $\pm$ 109	63 $\pm$ 109	63 $\pm$ 109	189 $\pm$ 327
BIVALVIA											
Sphaeriidae		315 $\pm$ 109		126 $\pm$ 218		315 $\pm$ 288	943 $\pm$ 1474	126 $\pm$ 218	755 $\pm$ 980	189 $\pm$ 327	
TERRESTRIALS	63 $\pm$ 109	63 $\pm$ 109				63 $\pm$ 109	755 $\pm$ 1307				189 $\pm$ 327
TOTAL	10.441	1.511	630	1.951	2.203	5.599	4.655	2.391	2.203	2.706	1.510

Table C.3. Mean number ($\pm$ standard deviation) of benthic macroinvertebrates per square meter in the Pend Oreille River at each study site for September, 1990.

	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6	Site 7	Site 8	Site 9	Site 10	Site 11
TRICHOPTERA											
Polycentropodidae	189 $\pm$ 327		63 $\pm$ 109				63 $\pm$ 109				
Limnephilidae		63 $\pm$ 109					63 $\pm$ 109	126 $\pm$ 109	126 $\pm$ 109		63 $\pm$ 109
Lepidostomatidae		63 $\pm$ 109									
Rhyacophilidae				63 $\pm$ 109							
EPHEMEROPTERA											
Baetidae			63 $\pm$ 109					63 $\pm$ 109	126 $\pm$ 218		
Ephemerellidae	252 $\pm$ 436										
Leptophlebiidae			63 $\pm$ 109								
Tricorythidae			189 $\pm$ 189	252 $\pm$ 436				63 $\pm$ 109	126 $\pm$ 218	189 $\pm$ 0	
COLEOPTERA											
Elmidae larvae			252 $\pm$ 436						63 $\pm$ 109		189 $\pm$ 189
Elmidae adult		63 $\pm$ 109									
Halplidae								126 $\pm$ 218			
DIPTERA											
Chironomidae larvae	3774 $\pm$ 5568	818 $\pm$ 851	1258 $\pm$ 2179	1132 $\pm$ 845	1887 $\pm$ 1307	818 $\pm$ 763	1509 $\pm$ 377	8302 $\pm$ 14053	1069 $\pm$ 931	189 $\pm$ 0	1572 $\pm$ 2404
Chironomidae pupae								189 $\pm$ 189	63 $\pm$ 109		
Empididae				126 $\pm$ 218							
ODONATA											
Coenagrionidae		126 $\pm$ 218	63 $\pm$ 109	63 $\pm$ 109				315 $\pm$ 288	252 $\pm$ 436		
Libellulidae		63 $\pm$ 109					63 $\pm$ 109				
Aeshneidae			126 $\pm$ 109								
HYDRACARINA		377 $\pm$ 499	1509 $\pm$ 1981					1824 $\pm$ 1582	440 $\pm$ 607	189 $\pm$ 0	377 $\pm$ 377
AMPHIPODA		2516 $\pm$ 2749	9560 $\pm$ 12694	1509 $\pm$ 1858	1321 $\pm$ 1178	1509 $\pm$ 2614	1258 $\pm$ 2179	3396 $\pm$ 21114	3019 $\pm$ 4579	1509 $\pm$ 0	315 $\pm$ 393
OLIGOCHAETA	315 $\pm$ 393	755 $\pm$ 566	1447 $\pm$ 1416	1824 $\pm$ 3159	189 $\pm$ 189		63 $\pm$ 109	1069 $\pm$ 1391	818 $\pm$ 1416		252 $\pm$ 288
TURBELLARIA											
Planariidae		189 $\pm$ 189	566 $\pm$ 980	63 $\pm$ 109							
MOLLUSCA											
Lymnaeidae			63 $\pm$ 109				818 $\pm$ 1106		63 $\pm$ 109		
Planorbidae	63 $\pm$ 109	126 $\pm$ 218	1509 $\pm$ 1729	252 $\pm$ 436	63 $\pm$ 109	503 $\pm$ 475	3333 $\pm$ 5284		755 $\pm$ 1148		629 $\pm$ 931
BIVALVIA											
Sphaeriidae		189 $\pm$ 327		1258 $\pm$ 714	881 $\pm$ 218	315 $\pm$ 288	1698 $\pm$ 2941	566 $\pm$ 377	818 $\pm$ 931		315 $\pm$ 288
TERRESTRIALS		63 $\pm$ 109		126 $\pm$ 218				189 $\pm$ 189	63 $\pm$ 109		63 $\pm$ 109
TOTAL	4.593	5.411	16.731	6.668	4.141	3.145	8.868	26.228	7.801	2.076	3.775

Table C.4. Mean number and standard deviation of macroinvertebrates per square meter in Cee Cee Ah Slough (3A), Pend Oreille River, WA. 1990.

	APRIL	JULY	SEPTEMBER	ANNUAL MEAN	% ABUND
TRICOPTERA					
Hydroptilidae	126 ± 218			42.0	0.9
Psychomyiidae	63 ± 109			21.0	0.4
Ephemeroptera					
Heptageniidae	63 ± 109			21.0	0.4
Baetidae		63 ± 109	252 ± 288	105.0	2.1
DIPTERA					
Chironomidae larvae	6,793 ± 6,117	315 ± 393	818 ± 931	2,642.0	54.1
Chironomidae pupae		63 ± 109	126 ± 218	63.0	1.3
ODONATA					
Coenagrionidae	440 ± 763		63 ± 109	167.7	3.4
HYDRACARINA	440 ± 607		63 ± 109	167.7	3.4
AMPHIPODA	315 ± 545	63 ± 109	881 ± 218	419.7	8.6
OLIGOCHAETA	440 ± 607	63 ± 109	943 ± 943	482.0	9.9
MOLLUSCA					
Planorbidae	2,013 ± 2,997		63 ± 109	692.0	14.2
TERRESTRIALS	63 ± 109		126 ± 218	63.0	1.3
TOTAL	10,756	567	3,335	4,886	

Table C.5. Mean number and standard deviation of macroinvertebrates per square meter in Dike Slough (4A), Pend Oreille River, WA. 1990.

	APRIL	JULY	SEPTEMBER	ANNUAL MEAN	% ABUND
TRICOPTERA					
Hydroptilidae	63 ± 109		63 ± 109	42.0	0.6
Limnephilidae			63 ± 109	21.0	0.3
EPHEMEROPTERA					
Tricorythidae	2,390 ± 3,165		126 ± 218	838.7	11.0
PLECOPTERA					
Perlodidae			63 ± 109	21.0	0.3
COLEOPTERA					
Elmidae larvae			63 ± 109	21.0	0.3
DIPTERA					
Chironomidae larvae	6,165 ± 3,855		1,321 ± 2,288	2,495.3	32.8
Chironomidae pupae	126 ± 109		126 ± 218	84.0	1.1
Ceratopogonidae	315 ± 393		63 ± 109	126.0	1.7
Chaoboridae	63 ± 109		126 ± 109	63.0	0.8
ODONATA					
Coenagrionidae			189 ± 189	63.0	0.8
HYDRACARINA	755 ± 327		1,447 ± 1,325	734.0	9.6
AMPHIPODA	189 ± 189	189 ± 327	189 ± 0	189.0	2.5
OLIGOCHAETA	189 ± 327	126 ± 109	3,333 ± 5,450	1,216.0	16.0
MOLLUSCA					
Planorbidae	3,522 ± 763		1,258 ± 763	1,593.3	20.9
Lymnaeidae	63 ± 109		63 ± 109	42.0	0.6
TERRESTRIALS	63 ± 109		126 ± 109	63.0	0.8
TOTAL	13,903	315	8,619	7,612	

Table C.6. Mean number and standard deviation of macroinvertebrates per square meter in Pow Wow Slough (5A), Pend Oreille River, WA. 1990.

	APRIL	JULY	SEPTEMBER	ANNUAL MEAN	% ABUND
EPHEMEROPTERA					
Leptophlebiidae		63 ± 109	*	31.5	0.8
Baetidae		63 ± 109	*	31.5	0.8
Tricorythidae	63 ± 109	63 ± 109	*	63.0	1.6
DIPTERA					
Chironomidae larvae	2,076 ± 943	63 ± 109	*	1,069.5	27.2
Chironomidae pupae	63 ± 109	63 ± 109	*	63.0	1.6
Ceratopogonidae	189 ± 189		*	94.5	2.4
ODONATA					
Coenagrionidae	566 ± 980	63 ± 109	*	314.5	8.0
HYDRACARINA	818 ± 763		*	409.0	10.4
AMPHIPODA	692 ± 1,198	126 ± 218	*	409.0	10.4
OLIGOCHAETA	189 ± 0	315 ± 393	*	252.0	6.4
MOLLUSCA					
Planorbidae	1,824 ± 3,159	440 ± 607	*	1,132.0	28.8
BIVALVIA					
Sphaeriidae	63 ± 109	63 ± 109	*	63.0	1.6
TOTAL	6,543	1,322	*	3,933	

*No samples collected due to excessive macrophyte growth

Table C.7. Mean number and standard deviation of macroinvertebrates per square meter in Goose Island Slough (6A), Pend Oreille River, WA. 1990.

	APRIL	JULY	SEPTEMBER	ANNUAL MEAN	% ABUND
TRICOPTERA					
Hydroptilidae	69 ± 104		*	34.5	0.35
EPHEMEROPTERA					
Baetidae	189 ± 327		*	94.5	0.95
Tricorythidae	2,094 ± 2,946	63 ± 109	*	1,078.5	10.8
COLEOPTERA					
Elmidae larvae	6 ± 11	63 ± 109	*	34.5	0.35
DIPTERA					
Chironomidae larvae	10,321 ± 11,315		*	5,160.5	51.7
Chironomidae pupae	1,000 ± 773		*	500.0	5.0
Ceratopogonidae	189 ± 327		*	94.5	0.95
Simuliidae	6 ± 11		*	3.0	0.03
ODONATA					
Coenagrionidae	692 ± 1,039		*	346.0	3.5
HYDRACARINA	755 ± 865		*	377.5	23.0
AMPHIPODA	3,283 ± 4,705		*	1,641.5	16.4
OLIGOCHAETA		503 ± 436	*	251.5	2.5
MOLLUSCA					
Planorbidae	384 ± 492	126 ± 218	*	255.0	2.6
Physidae					
Lymnaeidae					
BIVALVIA					
Sphaeriidae	226 ± 136		*	113.0	1.1
TERRESTRIALS					
TOTAL	19,214	755	*	9,985	

.No samples collected due to excessive macrophyte growth.

Table C.8. Mean number ($\pm$ standard deviation) of benthic macroinvertebrates (from Hess samples) per square meter in LeClerc Creek, WA 1990.

	JULY	SEPTEMBER	TOTAL MEAN	% ABUNDANCE
AQUATIC ORGANISMS				
TRICHOPTERA				
Glossosomatidae		5.0 $\pm$ 5.8	2.5	0.2
Brachycentridae	117.5 $\pm$ 215.5	37.5 $\pm$ 68.5	77.5	5.2
Hydropsychidae	2.5 $\pm$ 5.0	17.5 $\pm$ 28.7	10.0	0.7
Rhyacophilidae	27.5 $\pm$ 42.7	17.5 $\pm$ 28.7	22.5	1.5
Psychomyiidae	2.5 $\pm$ 5.0		1.3	0.1
EPHEMEROPTERA				
Heptageniidae	122.5 $\pm$ 132.3	27.5 $\pm$ 15.0	75.0	5.0
Ephemerellidae	45.0 $\pm$ 64.5	15.0 $\pm$ 17.3	30.0	2.0
Baetidae	142.5 $\pm$ 160.3	90.0 $\pm$ 73.9	116.3	7.8
Leptophlebiidae		2.5 $\pm$ 5.0	1.3	0.1
PLECOPTERA				
Chloroperlidae	72.5 $\pm$ 99.8	7.5 $\pm$ 9.6	40.0	2.7
Perlodidae	22.5 $\pm$ 22.2	7.5 $\pm$ 15.0	15.0	1.0
Nemouridae		10.0 $\pm$ 14.1	5.0	0.3
COLEOPTERA				
Elmidae larvae	117.5 $\pm$ 174.8	162.5 $\pm$ 114.4	140.0	9.4
Elmidae adult		5.0 $\pm$ 10.0	2.5	0.2
Dytiscidae	2.5 $\pm$ 5.0	2.5 $\pm$ 5.0	2.5	0.2
DIPTERA				
Chironomidae larvae	65.0 $\pm$ 71.4	1,492.5 $\pm$ 1,895.3	778.8	52.3
Chironomidae pupae	7.5 $\pm$ 15.0	185.0 $\pm$ 210.0	96.3	6.5
Ceratopogonidae		5.0 $\pm$ 5.8	2.5	0.2
Tipulidae	15.0 $\pm$ 30.0	12.5 $\pm$ 15.0	13.8	0.9
Simuliidae	5.0 $\pm$ 10.0	2.5 $\pm$ 5.0	3.8	0.3
Chaoboridae pupae		2.5 $\pm$ 5.0	1.3	0.1
HYDRACARINA	2.5 $\pm$ 5.0	7.5 $\pm$ 9.6	5.0	0.3
OLIGOCHAETA				
Lumbriculidae		12.5 $\pm$ 18.9	6.3	0.4
MOLLUSCA				
Planorbidae		22.5 $\pm$ 45.0	11.3	0.8
BIVALVIA				
Sphaeriidae		7.5 $\pm$ 9.6	3.8	0.3
TERRESTRIAL ORGANISMS				
EPHEMEROPTERA				
Baetidae	5.0 $\pm$ 10.0	10.0 $\pm$ 20.0	7.5	0.5
Ephemerellidae	5.0 $\pm$ 10.0		2.5	0.2
Heptageniidae	2.5 $\pm$ 5.0		1.3	0.1
HEMIPTERA				
Corixidae		25.0 $\pm$ 50.0	12.5	0.8
HOMOPTERA				
Coccidae		2.5 $\pm$ 5.0	1.3	0.1
UNKNOWN	2.5 $\pm$ 5.0		1.3	0.1
TOTAL	785	2,195	1,490	100

*NO SAMPLES COLLECTED IN APRIL

Table C.9. Mean number ($\pm$ standard deviation) of benthic macroinvertebrates (from Hess samples) per square meter in Ruby Creek, WA 1990.

	APRIL	JULY	SEPTEMBER	TOTAL MEAN	% ABUNDANCE
AQUATIC ORGANISMS					
TRICHOPTERA					
Glossosomatidae			5.0 $\pm$ 10.0	1.7	0.2
Brachycentridae		12.5 $\pm$ 18.9		4.2	0.5
Hydropsychidae		75.0 $\pm$ 130.8	37.5 $\pm$ 28.7	37.5	4.4
Limnephilidae	5.0 $\pm$ 7.1			1.7	0.2
Rhyacophilidae		7.5 $\pm$ 9.6	10.0 $\pm$ 14.1	5.8	0.7
EPHEMEROPTERA					
Heptageniidae		27.5 $\pm$ 37.7	57.5 $\pm$ 54.4	28.3	3.3
Ephemerellidae	45.0 $\pm$ 63.6	17.5 $\pm$ 23.6	10.0 $\pm$ 11.5	24.2	2.8
Baetidae		47.5 $\pm$ 29.9	130.0 $\pm$ 69.8	59.2	6.9
Leuctophlebiidae	25.0 $\pm$ 35.4	10.0 $\pm$ 14.1	10.0 $\pm$ 14.1	15.0	1.8
PLECOPTERA					
Chloroperlidae		55.0 $\pm$ 52.6	2.5 $\pm$ 5.0	19.2	2.2
Perlodidae		5.0 $\pm$ 10.0	35.0 $\pm$ 35.1	13.3	1.6
Nemouridae	30.0 $\pm$ 14.1			10.0	11.6
Capnidae			2.5 $\pm$ 5.0	0.8	0.1
COLEOPTERA					
Elmidae larvae	30.0 $\pm$ 28.3	157.5 $\pm$ 219.3	1,10.0 $\pm$ 67.8	99.2	1.2
Elmidae adult		27.5 $\pm$ 55.0	2.5 $\pm$ 5.0	10.0	1.2
Halplidae	5.0 $\pm$ 7.1			1.7	0.2
DIPTERA					
Chironomidae larvae	270. $\pm$ 212.1	30.0 $\pm$ 38.3	55.0 $\pm$ 57.4	118.3	13.8
Ceratopogonidae			5.0 $\pm$ 5.8	1.7	0.2
Tipulidae	20.0 $\pm$ 0.0	2.5 $\pm$ 5.0	20.0 $\pm$ 18.3	14.2	1.7
Simuliidae	115.0 $\pm$ 162.6	55.0 $\pm$ 103.4		56.7	6.6
Psychodidae	45.0 $\pm$ 35.4			15.0	1.8
HYDRACARINA	15.0 $\pm$ 21.2	7.5 $\pm$ 15.0		7.5	0.9
OLIGOCHAETA					
Lumbriculidae	15.0 $\pm$ 7.1	12.0 $\pm$ 25.0		9.0	1.1
Naididae		27.5 $\pm$ 55.0		9.2	1.1
NEMATODA	10.0 $\pm$ 0.0			3.3	0.4
TURBELLARIA					
Planariidae		7.5 $\pm$ 9.6	2.5 $\pm$ 5.0	3.3	0.4
MOLLUSCA					
Planorbidae	5.0 $\pm$ 7.1	10.0 $\pm$ 14.1		5.0	0.6
BIVALVIA					
Sphaeriidae	760.0 $\pm$ 99.0	80.0 $\pm$ 120.8	2.5 $\pm$ 5.0	280.8	32.8
TERRESTRIAL ORGANISMS					
UNKNOWN		2.5 $\pm$ 5.0		0.8	0.1
TOTAL	1,455	6,995	498	857	100

Table C.10. Mean number ($\pm$ standard deviation) of benthic macroinvertebrates (from Hess samples) per square meter in Cee Cee Ah Creek, WA 1990.

	APRIL	JULY	SEPTEMBER	TOTAL MEAN	% ABUNDANCE
AQUATIC ORGANISMS					
TRICHOPTERA					
Glossosomatidae	12.5 $\pm$ 15.0	5.0 $\pm$ 10.0	7.5 $\pm$ 10.0	8.3	0.4
Brachycentridae		25.0 $\pm$ 26.5		8.3	0.4
Hydroptychidae	15.0 $\pm$ 19.1	15.0 $\pm$ 17.3	27.5 $\pm$ 35.1	19.2	0.9
Hydroptilidae			5.0 $\pm$ 5.8	1.7	0.1
Limnephilidae		15.0 $\pm$ 17.3		5.0	0.2
Rhyacophilidae	5.0 $\pm$ 5.8	45.0 $\pm$ 42.0	5.0 $\pm$ 5.8	18.3	0.8
EPHEMEROPTERA					
Heptageniidae	275.0 $\pm$ 283.4	202.5 $\pm$ 200.2	137.5 $\pm$ 202.1	205.0	9.4
Ephemereilidae	37.5 $\pm$ 55.6	112.5 $\pm$ 113.0	37.5 $\pm$ 37.9	62.5	2.9
Baetidae	145.0 $\pm$ 214.4	367.5 $\pm$ 117.1	225.0 $\pm$ 41.6	245.8	11.2
Leptophlebiidae		55.0 $\pm$ 75.5		18.3	0.8
PLECOPTERA					
Chloroperlidae	37.5 $\pm$ 68.5	225.0 $\pm$ 141.8	2.5 $\pm$ 5.8	88.3	4.0
Perlidae		2.5 $\pm$ 5.0	5.0 $\pm$ 11.5	2.5	0.1
Perlodidae	20.0 $\pm$ 33.7	45.0 $\pm$ 50.0	12.5 $\pm$ 20.8	21.7	1.0
Peltoperlidae		77.5 $\pm$ 108.4		25.8	1.2
Nemouridae	10.0 $\pm$ 20.0			7.5	0.3
Capnidae		2.5 $\pm$ 5.0		0.8	≤ 0.1
COLEOPTERA					
Elmidae larvae	22.5 $\pm$ 33.0	535.0 $\pm$ 574.4	145.0 $\pm$ 185.6	234.2	10.7
Elmidae adult		7.5 $\pm$ 9.6		2.5	0.1
Hydrophilidae		5.0 $\pm$ 5.8		1.7	0.1
DIPTERA					
Chironomidae larvae	40 $\pm$ 61.6	607.5 $\pm$ 750.4	860.0 $\pm$ 924.2	502.5	22.9
Chironomidae pupae		25.0 $\pm$ 37.9	20.0 $\pm$ 23.1	15.0	0.7
Ceratopogonidae	5.0 $\pm$ 5.8	5.0 $\pm$ 5.8	15.0 $\pm$ 17.3	8.3	0.4
Tipulidae		15.0 $\pm$ 17.3		5.0	0.2
Simuliidae	5.0 $\pm$ 10.0	47.5 $\pm$ 43.5		17.5	0.8
Empididae		7.5 $\pm$ 9.6		2.5	0.1
Chaoboridae		20.0 $\pm$ 24.5		6.7	0.3
HYDRACARINA		10.0 $\pm$ 8.2		3.3	0.2
OLIGOCHAETA					
Lumbriculidae	30.0 $\pm$ 24.5	187.5 $\pm$ 223.7	285.0 $\pm$ 306.6	187.5	7.6
NEMATODA		7.5 $\pm$ 15.0		2.5	0.1
TURBELLARIA					
Planariidae		22.5 $\pm$ 45.0		7.5	0.3
HIRUDINEA		2.5 $\pm$ 5.0		0.8	≤ 0.1
MOLLUSCA					
Planorbidae		12.5 $\pm$ 25.0		4.2	0.2
Lymnaeidae		2.5 $\pm$ 5.0	2.5 $\pm$ 5.0	1.7	0.1
BIVALVIA					
Sphaeriidae	30.0 $\pm$ 46.9	637.5 $\pm$ 756.2	717.5 $\pm$ 822.7	461.7	21.1
TERRESTRIAL ORGANISMS					
HEMIPTERA					
REDUVIIDAE		2.5 $\pm$ 5.0		0.8	≤ 0.1
UNKNOWN	2.5 $\pm$ 5.0	20.0 $\pm$ 21.6		7.5	0.3
TOTAL	693	3,375	2,510	2,192	

Table C.11. Mean number ($\pm$ standard deviation) of benthic macroinvertebrates (from Hess samples) per square meter in Tacoma Creek, WA 1990.

	JULY	SEPTEMBER	TOTAL MEAN	% ABUNDANCE
AQUATIC ORGANISMS				
TRICHOPTERA				
Glossosomatidae		105.0 $\pm$ 68.9	52.5	4.0
Brachycentridae	275.0 $\pm$ 243.8	10.0 $\pm$ 11.5	142.5	10.8
Hydropsyohidae		60.0 $\pm$ 52.9	30.0	2.3
Rhyacophilidae	55.0 $\pm$ 32.1		27.5	2.1
Psyohomyiidae		35.0 $\pm$ 20.8	17.5	1.3
EPHEMEROPTERA				
Heptageniidae	170.0 $\pm$ 110.2		85.0	6.4
Ephemerellidae	210.0 $\pm$ 242.5	20.0 $\pm$ 23.1	115.0	8.7
Baetidae	545.0 $\pm$ 405.0	55.0 $\pm$ 47.3	300.0	22.7
PLECOPTERA				
Chloroperlidae	40.0 $\pm$ 30.6	20.0 $\pm$ 23.1	30.0	2.3
Pertodidae		5.0 $\pm$ 5.8	2.5	0.2
Nemouridae	5.0 $\pm$ 5.6	5.0 $\pm$ 5.8	5.0	0.4
COLEOPTERA				
Elmidae larvae	505.0 $\pm$ 368.3	175.0 $\pm$ 165.0	340.0	25.8
Elmidae adult	10.0 $\pm$ 5.8	20.0 $\pm$ 23.1	15.0	1.1
Dytiscidae	2.5 $\pm$ 5.0	2.5 $\pm$ 5.0	2.5	0.2
DIPTERA				
Chironomidae larvae	160.0 $\pm$ 122.2	65.0 $\pm$ 45.1	112.5	8.5
Chironomidae pupae	10.0 $\pm$ 11.5		5.0	0.4
Tipulidae	10.0 $\pm$ 11.5	5.0 $\pm$ 5.8	7.5	0.6
Simuliidae	15.0 $\pm$ 17.3	5.0 $\pm$ 5.8	10.0	0.8
Psychodidae		10.0 $\pm$ 11.5	5.0	0.4
HYDRACARINA		10.0 $\pm$ 5.8	5.0	0.4
OLIGOCHAETA				
Lumbriculidae		10.0 $\pm$ 11.5	5.0	0.4
TERRESTRIAL ORGANISMS				
HEMIPTERA				
Reduviidae	5.0 $\pm$ 5.6		2.5	0.2
HOMOPTERA				
Coccidae	5.0 $\pm$ 5.8		2.5	0.2
ARANEIDA				
		5.0 $\pm$ 5.8	2.5	0.2
TOTAL	202	620	1,320	

*NO SAMPLES COLLECTED IN APRIL

Table C.12. Mean number ($\pm$ standard deviation) of benthic macroinvertebrates (from Hess samples) per square meter in Skookum Creek, WA 1990.

	APRIL	JULY	SEPTEMBER	TOTAL MEAN	% ABUNDANCE
AQUATIC ORGANISMS					
TRICHOPTERA					
Glossosomatidae	90.0 $\pm$ 98.3	5.0 $\pm$ 5.8	5.0 $\pm$ 5.8	33.3	2.0
Brachycentridae	20.0 $\pm$ 21.6	22.5 $\pm$ 38.6	5.0 $\pm$ 5.8	15.8	0.9
Hydroptyschidae	5.0 $\pm$ 10.0			1.7	0.1
Hydroptilidae	2.5 $\pm$ 5.0		12.5 $\pm$ 18.9	5.0	0.3
Limnephilidae		12.5 $\pm$ 18.9		4.2	0.2
Rhyacophilidae	182.5 $\pm$ 12.6	12.5 $\pm$ 9.6	30.0 $\pm$ 24.5	75.0	4.5
Psychomyiidae			2.5 $\pm$ 5.0	0.8	≤ 0.1
Unknown pupae			2.5 $\pm$ 5.0	0.8	≤ 0.1
EPHEMEROPTERA					
Heptageniidae	205.0 $\pm$ 81.0	52.5 $\pm$ 18.9	32.5 $\pm$ 33.0	96.7	5.8
Ephemerellidae	595.0 $\pm$ 549.6	17.5 $\pm$ 15.0	45.0 $\pm$ 50.7	219.2	13.1
Baetidae	1,107.5 $\pm$ 691.0	342.5 $\pm$ 297.0	57.5 $\pm$ 76.3	502.5	30.1
Leptophlebiidae	17.5 $\pm$ 23.6			5.8	1.0
PLECOPTERA					
Chloroperlidae	107.5 $\pm$ 92.2	67.5 $\pm$ 34.0	67.5 $\pm$ 59.1	80.8	4.8
Perlidae		2.5 $\pm$ 5.0		0.8	≤ 0.1
Perlodidae	2.5 $\pm$ 5.0	50.0 $\pm$ 40.8	10.0 $\pm$ 11.5	20.8	1.2
Nemouridae	37.5 $\pm$ 45.0	2.5 $\pm$ 5.0	12.5 $\pm$ 15.0	17.5	1.0
Pteronarcidae		12.5 $\pm$ 25.0		4.2	0.2
COLEOPTERA					
Elmidae larvae	87.5 $\pm$ 28.7	292.5 $\pm$ 337.7	27.5 $\pm$ 12.6	135.8	8.1
Elmidae adult		22.5 $\pm$ 26.3		7.5	0.4
DIPTERA					
Chironomidae larvae	230. $\pm$ 35.6	62.5 $\pm$ 54.4	127.5 $\pm$ 151.1	140.0	8.4
Chironomidae pupae	5.0 $\pm$ 5.8		7.5 $\pm$ 15.0	4.2	0.2
Ceratopogonidae	10.0 $\pm$ 14.1	2.5 $\pm$ 5.0	2.5 $\pm$ 5.0	5.0	0.3
Tipulidae	7.5 $\pm$ 15.0	7.5 $\pm$ 15.0	5.0 $\pm$ 10.0	6.7	0.4
Simuliidae	5.0 $\pm$ 5.8	2.5 $\pm$ 5.0		2.5	0.1
Chaoboridae pupae		10.0 $\pm$ 11.5		3.3	0.2
HYDRACARINA	20.0 $\pm$ 33.7		5.0 $\pm$ 5.8	8.3	0.5
OLIGOCHAETA					
Unknown	22.5 $\pm$ 45.0	360.0 $\pm$ 238.0	180.0 $\pm$ 219.5	187.5	11.2
TURBELLARIA					
Planariidae		35.0 $\pm$ 47.3	25.0 $\pm$ 26.5	20.0	1.2
MOLLUSCA					
Planorbidae			17.5 $\pm$ 35.0	5.8	0.3
Lymnaeidae			2.5 $\pm$ 5.0	0.8	≤ 0.1
BIVALVIA					
Sphaeriidae	77.5 $\pm$ 86.6	10.0 $\pm$ 14.1	67.5 $\pm$ 76.3	51.7	3.1
TERRESTRIAL ORGANISMS					
PLECOPTERA					
Nemouridae			2.5 $\pm$ 5.0	0.8	≤ 0.1
HYMENOPTERA					
Apidae		2.5 $\pm$ 5.0		0.8	≤ 0.1
TRICHOPTERA					
Glossosomatidae	7.5 $\pm$ 15.0			2.5	0.1
TOTAL	2,845	1,398	753	1,679	

Table C.13. Mean number ($\pm$ standard deviation) of benthic macroinvertebrates (from drift samples) per 100 cubic meters in LeClerc Creek, WA 1990.

	JULY	SEPTEMBER	TOTAL MEAN	% ABUNDANCE
AQUATIC ORGANISMS				
TRICHOPTERA				
Brachycentridae	1.3 $\pm$ 1.8	0.4 $\pm$ 0.7	0.8	4.4
EPHEMEROPTERA				
Heptageniidae	0.8 $\pm$ 0.5	0.3 $\pm$ 0.7	0.5	2.9
Ephemerellidae		0.3 $\pm$ 0.6	0.2	0.8
Baetidae	3.9 $\pm$ 3.7	0.7 $\pm$ 1.4	2.3	12.4
PLECOPTERA				
Chloroperlidae	0.2 $\pm$ 0.5		0.1	0.6
Perlidae		0.3 $\pm$ 0.7	0.2	0.9
COLEOPTERA				
Elmidae larvae	2.5 $\pm$ 4.4	3.5 $\pm$ 4.2	3.0	16.0
Elmidae adult	0.8 $\pm$ 0.9	0.7 $\pm$ 1.3	0.7	3.8
Georyssidae	0.3 $\pm$ 0.7		0.2	0.9
Hydrophilidae	1.0 $\pm$ 1.5		0.5	2.7
DIPTERA				
Chironomidae larvae	2.0 $\pm$ 2.5	4.1 $\pm$ 6.9	3.0	16.3
Chironomidae pupae	1.7 $\pm$ 2.0	5.4 $\pm$ 3.5	3.5	18.9
Tipulidae		0.6 $\pm$ 0.7	0.3	1.7
Simuliidae	1.1 $\pm$ 1.2	0.6 $\pm$ 0.7	0.8	4.5
Simuliidae pupae	0.2 $\pm$ 0.5	0.6 $\pm$ 0.7	0.4	2.3
LEPIDOPTERA				
Pyrilidae		0.3 $\pm$ 0.7	0.2	0.9
HYDRACARINA				
		0.3 $\pm$ 0.7	0.2	0.9
OLIGOCHAETA				
Lumbriculidae	0.3 $\pm$ 0.7		0.2	0.9
TERRESTRIAL ORGANISMS				
DIPTERA				
Simuliidae		0.2 $\pm$ 0.4	0.1	0.5
Drosophilidae		0.3 $\pm$ 0.6	0.2	0.8
Alydidae		0.3 $\pm$ 0.7	0.2	0.9
Rhagionie		0.2 $\pm$ 0.4	0.1	0.5
EPHEMEROPTERA				
Ephemerellidae		0.4 $\pm$ 0.7	0.2	0.9
HEMIPTERA				
HOMOPTERA				
Aphididae		0.3 $\pm$ 0.7	0.2	0.9
HYMENOPTERA				
THYSANOPTERA				
	0.2 $\pm$ 0.4		0.1	0.5
Thripidae		0.8 $\pm$ 0.9	0.4	2.1
ARANEIDA				
	0.2 $\pm$ 0.4		0.1	0.5
UNKNOWN				
	0.4 $\pm$ 0.8		0.2	1.1
TOTAL	17	21	19	

*NO SAMPLES COLLECTED IN APRIL

Table C.14. Mean number ($\pm$ standard deviation) of benthic macroinvertebrates (from drift samples) per 100 cubic meters in Ruby Creek, WA 1990.

	APRIL	JULY	SEPTEMBER	TOTAL MEAN	% ABUNDANCE
AQUATIC ORGANISMS					
TRICHOPTERA					
Glossosomatidae	0.3 $\pm$ 0.4			0.1	0.2
Rhyacophilidae		1.2 $\pm$ 2.5		0.4	0.8
Lepidostomatidae		0.2 $\pm$ 0.4		0.1	0.1
Ephemeroptera					
Heptageniidae	0.4 $\pm$ 0.7	0.2 $\pm$ 0.4		0.2	0.4
Ephemerellidae			0.2 $\pm$ 0.4	0.1	0.1
Baetidae		4.9 $\pm$ 4.0	1.2 $\pm$ 1.3	2.0	4.0
Leptophlebiidae	0.4 $\pm$ 0.7			0.1	0.3
PLECOPTERA					
Perlodidae		1.9 $\pm$ 2.4		0.6	1.2
Nemouridae	1.1 $\pm$ 1.0		0.9 $\pm$ 1.8	0.7	1.3
COLEOPTERA					
Elmidae larvae	2.3 $\pm$ 3.1	6.9 $\pm$ 5.8	0.8 $\pm$ 0.6	3.3	6.7
Elmidae adult	0.3 $\pm$ 0.4			0.1	0.2
DIPTERA					
Chironomidae larvae	22.0 $\pm$ 8.3	18.3 $\pm$ 11.6	4.7 $\pm$ 3.6	15.0	30.0
Chironomidae pupae	7.6 $\pm$ 5.8	6.7 $\pm$ 5.7	1.2 $\pm$ 1.5	5.2	10.3
Ceratopogonidae	0.3 $\pm$ 0.4	0.2		0.2	0.3
Tipulidae	0.4 $\pm$ 0.7		0.2 $\pm$ 0.5	0.2	0.4
Simuliidae	12.2 $\pm$ 8.2	1.6 $\pm$ 2.3	0.6 $\pm$ 0.9	4.8	9.6
Psychodidae	1.0 $\pm$ 0.1		0.4 $\pm$ 0.8	0.5	0.9
Chaoboridae pupae		9.1 $\pm$ 10.6		3.0	6.1
HYDRACARINA	4.0 $\pm$ 3.3			1.3	2.7
OLIGOCHAETA					
Lumbriculidae	1.3 $\pm$ 0.6			0.4	0.9
NEMATODA	1.4 $\pm$ 0.6			0.5	0.9
TURBELLARIA					
Planariidae		1.2 $\pm$ 2.5		0.4	0.8
MOLLUSCA					
Planorbidae	0.4 $\pm$ 0.7			0.1	0.3
BIVALVIA					
Sphaeriidae	4.0 $\pm$ 0.6	23.2 $\pm$ 44.6		9.1	18.1
TERRESTRIALS ORGANISMS					
COLLEMBOLA		1.2 $\pm$ 2.5		0.4	0.8
HOMOPTERA					
Aphididae		1.1 $\pm$ 1.4		0.4	0.7
HYMENOPTERA					
Apidae		1.4 $\pm$ 2.3	0.2 $\pm$ 0.5	0.6	1.1
UNKNOWN	0.8 $\pm$ 1.4			0.4	0.8
TOTAL	6.0	7.9	1.1	5.1	

Table C.15. Mean number ($\pm$ standard deviation) of benthic macroinvertebrates (from drift samples) per 100 cubic meters in Cee Cee Ah Creek, WA 1990.

	APRIL	JULY	SEPTEMBER	TOTAL MEAN	% ABUNDANCE
AQUATIC ORGANISMS					
TRICHOPTERA					
Glossosomatidae		0.1 $\pm$ 0.2		0.0	0.1
Brachycentridae		0.1 $\pm$ 0.3		0.0	0.1
Hydropsychidae		0.1 $\pm$ 0.3	2.5 $\pm$ 3.9	0.9	1.4
Rhyacophilidae		0.4 $\pm$ 0.8		0.1	0.2
EPTHEMEROPTERA					
Heptageniidae	0.6 $\pm$ 1.1	0.1 $\pm$ 0.2	0.9 $\pm$ 1.8	0.5	0.8
Ephemerellidae		0.2 $\pm$ 0.4	2.3 $\pm$ 4.0	0.8	1.3
Baetidae	0.6 $\pm$ 1.1	2.4 $\pm$ 1.3	4.5 $\pm$ 3.2	2.5	4.0
Leptophlebiidae		0.2 $\pm$ 0.4		0.1	0.1
PLECOPTERA					
Chloroerellidae	0.6 $\pm$ 1.1	0.1 $\pm$ 0.2	0.2 $\pm$ 0.4	0.3	0.4
Perlodidae		0.6 $\pm$ 1.2		0.2	0.3
Nemouridae		0.4 $\pm$ 0.8		0.1	0.2
COLEOPTERA					
Elmidae larvae	0.6 $\pm$ 0.7	0.7 $\pm$ 0.6	1.5 $\pm$ 2.0	0.9	1.5
Elmidae adult		0.3 $\pm$ 0.4		0.1	0.2
DIPTERA					
Chironomidae larvae	2.0 $\pm$ 3.9	1.4 $\pm$ 2.5	135.4 $\pm$ 216.7	46.24	74.2
Chironomidae pupae		2.6 $\pm$ 3.8	5.9 $\pm$ 7.5	2.8	4.5
Ceratopogonidae			1.3 $\pm$ 2.6	0.4	0.7
Simuliidae	0.3 $\pm$ 0.7	2.5 $\pm$ 3.2	0.9 $\pm$ 1.8	1.2	2.0
Simuliidae pupae		0.1 $\pm$ 0.2		0.0	0.1
Psychodidae		0.1 $\pm$ 0.2		0.0	0.1
Chaoboridae pupae		0.3 $\pm$ 0.4		0.1	0.2
LEPIDOPTERA					
Pyalidae		0.4 $\pm$ 0.9		0.1	0.2
HYDRACARINA		0.2 $\pm$ 0.4	1.1 $\pm$ 1.3	0.4	0.7
MOLLUSCA					
Planorbidae	0.6 $\pm$ 1.1			0.2	0.3
BIVALVIA					
Sphaeriidae	2.3 $\pm$ 3.0		6.2 $\pm$ 12.5	2.8	4.5
TERRESTRIALS ORGANISMS					
DIPTERA					
Chironomidae		0.2 $\pm$ 0.4		0.1	0.1
Simuliidae		0.1 $\pm$ 0.2		0.0	0.1
HEMIPTERA					
Reduviidae		0.1 $\pm$ 0.3		0.0	0.1
HOMOPTERA					
Aphididae		0.2 $\pm$ 0.4	0.7 $\pm$ 1.3	0.3	0.5
HYMENOPTERA					
Formicidae		0.2 $\pm$ 0.4	0.2 $\pm$ 0.4	0.1	0.2
ARANEIDA		0.3 $\pm$ 0.4		0.1	0.2
UNKNOWN		1.7 $\pm$ 3.1		0.6	0.9
TOTAL	7	16	164	62	

Table C.16. Mean number ($\pm$ standard deviation) of benthic macroinvertebrates (from drift samples) per 100 cubic meters in Tacoma Creek, WA 1990.

	JULY	SEPTEMBER	TOTALMEAN	% ABUNDANCE
AQUATIC ORGANISMS				
TRICHOPTERA				
Rhyacophilidae	0.2 $\pm$ 0.3		0.1	1.0
EPHEMEROPTERA				
Heptageniidae		0.6 $\pm$ 0.8	0.3	2.7
Baetidae	2.5 $\pm$ 0.7	4.0 $\pm$ 2.2	3.2	31.1
COLEOPTERA				
Elmidae larvae	1.2 $\pm$ 0.5	2.1 $\pm$ 1.8	1.6	15.4
Georyssidae		0.6 $\pm$ 0.8	0.3	2.7
Hydrophilidae		0.4 $\pm$ 0.6	0.2	1.9
DIPTERA				
Chironomidae pupae	0.2 $\pm$ 0.3	1.5 $\pm$ 1.0	0.8	7.2
Ceratopogonidae	0.2 $\pm$ 0.3		0.1	1.0
Simuliidae		0.8 $\pm$ 1.1	0.4	3.9
Psychodidae		1.0 $\pm$ 0.2	0.5	4.6
HYDRACARINA	0.2 $\pm$ 0.3		0.1	1.0
OLIGOCHAETA				
Lumbriculidae	2.3 $\pm$ 3.2	0.8 $\pm$ 1.1	1.5	14.7
BIVALVIA				
Sphaeriidae		0.4 $\pm$ 0.6	0.2	1.9
TERRESTRIAL ORGANISMS				
DIPTERA				
Sciaridae		0.6 $\pm$ 0.0	0.3	2.7
Dixidae		0.4 $\pm$ 0.6	0.2	1.9
HOMOPTERA				
Cicadellidae		0.6 $\pm$ 0.6	0.3	2.7
HYMENOPTERA				
Eurytomidae		0.4 $\pm$ 0.6	0.2	1.9
ARANEIDA		0.4 $\pm$ 0.6	0.2	1.9
TOTAL	6.8	14.3	10.38	

'NO SAMPLES COLLECTED IN APRIL

Table C.17. Mean number ($\pm$ standard deviation) of benthic macroinvertebrates (from drift samples) per 100 cubic meters in Skookum Creek, WA 1990.

	APRIL	JULY	SEPTEMBER	TOTALMEAN	% ABUNDANCE
AQUATIC ORGANISMS					
TRICHOPTERA					
Glossosomatidae	0.7 $\pm$ 0.9		1.2 $\pm$ 1.4	0.6	2.0
Brachycentridae	0.4 $\pm$ 0.5			0.1	0.4
Hydropsychidae		0.4 $\pm$ 0.4		0.1	0.4
Rhyacophilidae	1.0 $\pm$ 1.9	0.2 $\pm$ 0.4		0.4	1.2
EPTHEMEROPTERA					
Heptageniidae	1.7 $\pm$ 2.7	0.2 $\pm$ 0.4	0.7 $\pm$ 1.5	0.9	2.7
Ephemerellidae	1.0 $\pm$ 0.8		0.7 $\pm$ 1.5	0.6	1.7
Baetidae	15.7 $\pm$ 19.5	10.1 $\pm$ 6.6	10.7 $\pm$ 18.2	12.2	37.6
Leptophlebiidae			0.4 $\pm$ 0.8	0.1	0.4
PLECOPTERA					
Chloroperlidae	1.2 $\pm$ 1.8	0.5 $\pm$ 1.1	0.2 $\pm$ 0.4	0.7	2.0
Perlodidae		1.1 $\pm$ 1.3		0.4	1.1
Nemouridae		0.2 $\pm$ 0.4		0.1	0.2
Pteronarcyidae		0.4 $\pm$ 0.7		0.1	0.4
COLEOPTERA					
Elmidae larvae	1.5 $\pm$ 1.8	1.2 $\pm$ 1.7	3.7 $\pm$ 4.0	2.1	6.6
Elmidae adult		0.2 $\pm$ 0.4		0.1	0.2
DIPTERA					
Chironomidae larvae	2.8 $\pm$ 3.3	8.1 $\pm$ 11.2	5.9 $\pm$ 2.6	5.6	17.3
Chironomidae pupae	3.7 $\pm$ 5.4	0.9 $\pm$ 1.1	4.7 $\pm$ 3.8	3.1	9.5
Ceratopogonidae pupae		1.1 $\pm$ 1.7		0.4	1.1
Simuliidae	0.2 $\pm$ 0.5	2.6 $\pm$ 3.4	0.7 $\pm$ 1.5	1.2	3.7
Psychodidae	0.2 $\pm$ 0.4			0.1	0.2
LEPIDOPTERA					
Pyrilidae			0.4 $\pm$ 0.9	0.1	0.4
HYDRACARINA	0.2 $\pm$ 0.5	0.6 $\pm$ 0.7	0.7 $\pm$ 1.5	0.5	1.6
OLIGOCHAETA					
Lumbriculidae	0.5 $\pm$ 1.0		0.4 $\pm$ 0.8	0.3	0.9
NEMATODA	0.3 $\pm$ 0.5			0.1	0.3
TURBELLARIA					
Planariidae			1.3 $\pm$ 2.6	0.4	1.3
MOLLUSCA					
Lymnaeidae			0.2 $\pm$ 0.4	0.1	0.2
BIVALVIA					
Sphaeriidae	0.5 $\pm$ 1.1	1.3 $\pm$ 1.4	1.0 $\pm$ 0.8	1.0	2.9
TERRESTRIALS ORGANISMS					
COLEMBOLA					
		0.2 $\pm$ 0.4	0.9 $\pm$ 1.7	0.3	1.1
DIPTERA					
Simuliidae		0.2 $\pm$ 0.4		0.1	0.2
HOMOPTERA					
Aphididae	0.5 $\pm$ 1.0	0.4 $\pm$ 0.7		0.3	0.8
ARANEIDA	0.3 $\pm$ 0.5	0.2 $\pm$ 0.4	0.6 $\pm$ 0.8	0.4	1.1
UNKNOWN		0.7 $\pm$ 0.8		0.2	0.7
TOTAL	32	30	34	32	

APPENDIX D

MONTHLY ZOOPLANKTON DENSITIES AT PEND OREILLE RIVER MID-CHANNEL AND LITTORAL STUDY SITES

Table D.I. Mean monthly zooplankton densities (organisms/liter) for Pend Oreille River study sites (mid-channel) during April, 1990.

	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	Mean
CLADOCERA												
<i>Daphnia ambigua</i>												
<i>Daphnia galeata mendota</i>												
<i>Daphnia ipulicaria</i>							0.09		0.03		0.04	0.02
<i>Daphnia retrocurva</i>												
<i>Daphnia thorata</i>												
<i>Acroporus harpae</i>												
<i>Alona gutta</i>			0.04		0.03	0.05		0.02		0.02		0.02
<i>Bosmina longirostris</i>	0.07	0.08	0.08	0.06	0.14	0.16	0.02	0.06	0.06	0.10	0.10	0.9
<i>Campocercus rectirostris</i>												
<i>Ceriodaphnia quadrangula</i>												
<i>Ceriodaphnia</i> spp.		0.01										<0.01
<i>Chydorus sphaericus</i>	0.60	0.66	1.00	0.33	0.24	0.18	0.26	0.05	0.16	0.16	0.19	0.35
<i>Diaphanosoma birgei</i>												
<i>Diaphanosoma brachyurum</i>												
<i>Diaphanosoma</i> spp.												
<i>Eurycercus lamellatus</i>												
<i>Graptoleberis testudinaria</i>												
<i>Leptodora kindtii</i>												
<i>L. eydigia leydigi</i>												
<i>macrothrix</i> spp.												
<i>Pleuroxus</i> spp.												
<i>Scapholeberis aurita</i>												
<i>Scapholeberis mucronata</i>												
<i>Scapholeberis</i> spp.												
<i>Sida crystallina</i>												
<i>Simoccephalus vetulus</i>			0.04							0.02		0.01
<i>Streblocerus serricaudatus</i>												
TOTAL CLADOCERA	0.67	0.77	1.16	0.39	0.41	0.41	0.39	0.13	0.25	0.38	0.33	0.48
COPEPODA												
<i>Diacyclops bicuspidatus thomasi</i>	0.89	0.88	0.48	0.37	0.32	0.68	0.49	0.08	0.10	0.16	0.06	0.34
<i>Episura nevadensis</i>								0.66	0.65	0.78	0.79	0.63
<i>Skistodiaptomus oregonensis</i>	0.34	1.62	0.93	1.64	1.22	2.36	1.2	1.65	1.06	1.12	1.35	1.32
<i>Mesocyclops</i>												
TOTAL COPEPODA	2.47	2.41	2.00	2.78	2.40	3.43	2.46	2.31	1.36	2.01	2.26	2.35
TOTAL ZOOPLANKTON	5.44	5.21	3.65	5.10	4.29	7.06	5.29	4.70	3.19	4.09	4.46	4.64
OSTRACODA	0.10		4.81	5.49	4.70	7.41	5.68	4.63	3.44	4.47	4.79	5.12
			0.06	0.06	0.01			0.03				0.24

Table 0.2. Mean monthly zooplankton densities (organisms/liter) for Pend Oreille River study sites (mid-channel) during July, 1990.

	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	Mean
CLADOCERA												
<i>Daphnia ambigua</i>	003											0003
<i>Daphnia galeata mendota</i>	041	0.09	0.16	0.26	0.24	0.48	0.11	0.20	0.65	0.32	0.22	0.29
<i>Daphnia parvula</i>											0.01	<0.01
<i>Daphnia pulicaria</i>												
<i>Daphnia retrocurva</i>	0.03										0.03	0.01
<i>Daphnia thorata</i>	0.12	0.25	0.11	0.05		0.05	0.05			0.16	0.11	0.08
<i>Acroporus harpae</i>												
<i>Alona gutta</i>	0.06	0.06	0.04	0.11	0.24		0.26	0.46	0.07	0.05	0.03	0.13
<i>Bosmina longirostris</i>	2.67	2.26	2.28	1.91	2.46	2.75	1.48	1.65	3.39	6.35	2.27	2.70
<i>Camptocercus rectirostris</i>		005										001
<i>Ceriodaphnia quadrangula</i>												
<i>Ceriodaphnia</i> spp.	0.03	0.25		0.05	0.24	0.11						0.62
<i>Chydorus sphaericus</i>	0.03	0.05	0.05	0.16	0.32	0.32	005	0.02		0.16		0.11
<i>Diaphanosoma birgei</i>												
<i>Diaphanosoma brachyurum</i>	0.03	0.05	0.05	0.11	0.16	0.05	0.05	0.07	0.07	0.16	0.03	0.08
<i>Diaphanosoma</i> spp.												
<i>Eurycercus lamellatus</i>		0.02										<0.01
<i>Graptoleberis testudinaria</i>		0.05				0.05		002				0.01
<i>Leptodora kindtii</i>	0.06	0.06	0.08		0.03			002	0.16	0.14	0.02	0.05
<i>Leydigia leydigi</i>												
<i>macrothrix</i> spp.												
<i>Pleuroxus</i> spp.												
<i>Scapholeberis aurita</i>												
<i>Scapholeberis mucronata</i>												
<i>Scapholeberis</i> spp.												
<i>Sida crystallina</i>	0.14	0.35	0.21	0.16	0.07	0.21	0.21	0.13	0.22		0.11	0.24
<i>Simocephalus serrulatus</i>							0.10				0.03	0.01
<i>Simocephalus vetulus</i>												
<i>Streblocerus sericeaudatus</i>												
TOTAL CLADOCERA	3.61	3.54	2.96	2.61	4.56	4.02	2.31	2.77	4.56	7.34	2.86	3.76
COPEPODA												
<i>Bryocamptus</i> spp.												
<i>Diacyclops bicuspidatus thomasi</i>	5.05	4.01	4.34	4.98	5.39	6.51	4.50	3.96	6.5	14.91	5.86	6.00
<i>Episura nevadensis</i>	0.15	0.15		0.21	0.24	0.42	0.11	0.20	0.29	0.32	0.17	0.21
<i>Leptodiaptomus ashlandi</i>	1.15	1.30	1.30	1.8	2.38	2.49	1.75	1.98	3.75	6.35	2.52	2.44
<i>Skistodiaptomus oregonensis</i>	0.59	0.40	0.21	0.11	0.56	0.21		0.20	0.43	0.32	0.11	0.29
<i>Mesocyclops</i>					0.24						0.08	0.03
<i>Naupli</i>	8.29	7.17	6.35	5.88	8.01	7.25	5.88	5.60	7.65	10.79	6.92	7.26
TOTAL COPEPODA	15.23	13.03	12.26	12.96	16.82	16.68	12.24	12.02	18.62	32.69	15.66	16.22
TOTAL ZOOPLANKTON	16.64	16.57	15.26	15.19	21.36	20.90	14.55	14.79	23.16	40.03	18.52	19.98
OSTRACODA		0.05	0.11		0.24		0.11	0.13	0.14	0.16		0.09

Table 0.3. Mean monthly zooplankton densities (organisms/liter) for Pend Oreille River study sites (mid-channel) during September, 1990.

	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	Mean
CLADOCERA												
<i>Daphnia ambigua</i>	0.59	0.92	1.59	2.36	0.49	0.25	0.91	3.17	2.31	2.19	1.4	1.47
<i>Daphnia galeata mendota</i>												
<i>Daphnia parvula</i>												
<i>Daphnia pulicaria</i>												
<i>Daphnia retrocurva</i>												
<i>Daphnia thorata</i>	0.03		0.11	0.20		0.03	0.14	0.32	0.13	0.24	0.50	0.16
<i>Acroporus harpae</i>												
<i>Acanthocyclops vernalis</i>	0.03	0.06				0.03					0.03	0.01
<i>Bosmina longirostris</i>	2.51	5.62	3.12	2.31	0.39	2.76	1.20	4.92	3.44	3.13	3.31	2.97
<i>Camptocercus rectirostris</i>	0.03	0.31	0.05	0.02	5.67	0.10	0.11	0.02	0.20		0.15	0.61
<i>Ceriodaphnia quadrangula</i>												
<i>Ceriodaphnia</i> spp.	0.03	0.16	0.21	0.93	0.49	0.19	0.57	0.05	2.31	0.03	0.08	0.46
<i>Chydorus sphaericus</i>	0.03		0.05		0.29	0.44	0.06	0.56		0.02	0.10	0.14
<i>Diaphanosoma birgei</i>	0.17	0.16	0.42	0.20		0.06		0.16	0.46	0.25	0.53	0.22
<i>Diaphanosoma brachyurum</i>					0.20		0.11					0.03
<i>Diaphanosoma</i> spp.												
<i>Eurycercus lamellatus</i>					0.20	0.30						0.02
<i>Graptoleberis testudinaria</i>							0.03		0.13		0.03	0.02
<i>Leptodora kindtii</i>												
<i>Leydigia leydigii</i>												
<i>Macrothrix</i> spp.												
<i>Pleuroxus</i> spp.												
<i>Scapholeberis aurita</i>												
<i>Scapholeberis mucronata</i>												
<i>Scapholeberis</i> spp.		0.16						0.08	0.05			0.03
<i>Sida crystallina</i>					0.39							0.04
<i>Simocephalus serrulatus</i>						0.19					0.01	0.02
<i>Simocephalus vetulus</i>					0.70							0.07
<i>Streblocerus serricaudatus</i>												
TOTAL CLADOCERA	3.42	7.45	5.55	6.04	9.90	4.09	3.13	9.28	9.03	5.91	6.14	5.89
COPEPODA												
<i>Bryocamptus</i> spp.				0.07		0.03						0.01
<i>Diatomocyclops bicuspidatus thomasi</i>	0.46	0.66	2.33	2.71	2.05	0.86	1.43	1.27	2.04	3.01	2.41	1.64
<i>Episura nevadensis</i>	0.03			0.07		0.03	0.06	0.08		0.12		0.04
<i>Leptodiatomus ashlandi</i>	0.53		0.90	5.66	1.47		0.97	0.71	1.45	2.00	1.00	1.36
<i>Skistodiatomus oregonensis</i>		0.98	0.26			0.22					0.40	0.17
<i>Mesocyclops</i>		0.24			0.39	0.06	0.03	0.16		0.02		0.08
<i>Nauplii</i>	1.55	4.26	3.65	3.24	4.11	1.43	3.06	3.17	2.51	3.06	2.51	2.96
TOTAL COPEPODA	2.51	6.36	7.14	11.97	6.02	2.63	5.55	5.39	6.60	9.21	6.32	6.44
TOTAL ZOOPLANKTON	5.99	13.91	12.69	16.01	16.92	6.11	8.66	14.67	15.83	14.12	12.46	12.33
OSTRACODA	0.07		0.05	0.07	17.30	0.19	0.14	3.09		0.02	0.10	1.91

Table 0.4. Mean monthly zooplankton densities (organisms/liter) for Pend Oreille River study sites (littoral) during April, 1990.

	T1	T2	T3	T3A	T4	T4A	T5	T5A	T6	T6A	T7	T8	T9	T10	T11	Mean
CLADOCERA																
<i>Daphnia ambigua</i>																
<i>Daphnia galeata mendota</i>																
<i>Daphnia parvula</i>						0.89							0.05			0.06
<i>Daphnia pulicaria</i>																
<i>Daphnia retrocurva</i>																
<i>Daphnia thorata</i>																
<i>Acroperus harpae</i>																
<i>Alona gutta</i>			0.1	0.03				0.08	0.07	0.29	0.04	0.03	0.15			
<i>Bosmina longirostris</i>	0.59		0.05		0.04	0.16	0.04	0.53		0.32	0.04		0.05	0.05	0.06	0.13
<i>Camptocercus rectirostris</i>									0.07							<0.01
<i>Ceriodaphnia quadrangula</i>																
<i>Ceriodaphnia</i> spp.																
<i>Chydorus sphaericus</i>	4.95	0.40	8.71	4.42	0.44	5.89	0.79	6.65	3.54	1.52	1.18	1.53	1.26	0.38	0.35	2.80
<i>Diaphanosoma birgei</i>																
<i>Diaphanosoma brachyurum</i>																
<i>Diaphanosoma</i> spp.																
<i>Eurycerus lamellatus</i>									0.15							0.01
<i>Graptoleberis testudinaria</i>						0.16					0.04					0.01
<i>Leptodora kindti</i>																
<i>Leydigia leydigi</i>																
<i>macrothrix</i> spp.																
<i>Pleuroxus</i> spp.																
<i>Scapholeberis aurita</i>																
<i>Scapholeberis mucronata</i>																
<i>Scapholeberis</i> spp.						0.08										0.01
<i>Sida crystallina</i>																
<i>Simocephalus serrulatus</i>			0.10	0.03												0.01
<i>Simocephalus vetulus</i>																
<i>Streblocerus serricaudatus</i>																
TOTAL CLADOCERA	5.54	0.40	6.96	4.46	0.46	7.16	0.63	7.26	6.05	1.81	1.30	1.56	1.51	0.43	0.41	3.15
COPEPODA																
<i>Bryocamptus</i> spp.	13.86	0.08	1.18	0.48			0.54		27.35	189	0.44	0.18	1.89	0.11		3.20
<i>Diacyclops bicuspidatus</i>	2.18	0.48	0.31	0.90	0.16	20.16	1.29	4.05	2.57	1.67	0.35	0.37	0.77	2.07	1.63	2.60
<i>thomasi</i>																
<i>Episura nevadensis</i>																
<i>Leptodiaptomus ashlandi</i>	2.77	1.03		0.03	0.63	0.08	0.12	0.23	2.90	3.56	0.83	0.18	1.16	1.69	3.08	1.22
<i>Skistodiaptomus oregonensis</i>																
<i>Mesocyclops</i>																
<i>Naupli</i>	20.19	1.74	4.82	14.15	1.70	35.80	4.56	32.40	33.14	4.93	3.48	0.82	6.10	3.38	6.85	11.60
TOTAL COPEPODA	39.00	3.33	6.31	15.56	2.49	56.04	6.51	36.66	66.96	12.05	5.10	1.55	9.92	7.25	11.56	16.62
TOTAL ZOOPLANKTON	44.54	3.73	15.27	20.04	2.97	63.22	7.34	43.94	71.01	13.86	6.40	3.11	11.43	7.66	11.97	21.77
OSTRACODA	0.79	1.83	0.36	1.83	0.04	1.13		0.53	0.64	0.07						0.36

Table D.5. Mean monthly zooplankton densities (organisms/liter) for Pend Oreille River study sites (littoral) during July, 1990.

	T1	T2	T3	T3A	T4	T4A	T5	T5A	T6	T6A	T7	T8	T9	T10	T11	Mean
CLADOCERA																
<i>Daphnia ambigua</i>																
<i>Daphnia galeata mendotae</i>	0.38	0.04	0.16	0.07	0.20	0.59	0.26	0.48	0.26		0.16	0.09	1.11		4.47	0.55
<i>Daphnia parvula</i>																
<i>Daphnia pulicaria</i>																
<i>Daphnia retrocurva</i>	0.05											0.09				0.01
<i>Daphnia thorata</i>	0.10	0.06	0.08		0.59	3.57		0.48				0.09	0.16	0.21		0.36
<i>Acroporus harpae</i>																
<i>Alona gutta</i>		0.04	0.24	0.07	1.19	0.79	0.88	7.14	2.25	0.95	0.40	0.62	1.27	7.61	1.59	1.67
<i>Bosmina longirostris</i>	2.57	1.52	2.70	0.71	8.92	10.31	8.63	20.48	7.53	1.43	5.16	3.09	7.77	9.52	7.66	6.55
<i>Camptocercus rectirostris</i>								2.38		0.64						0.20
<i>Ceriodaphnia quadrangula</i>																
<i>Ceriodaphnia</i> spp.		0.13	0.08	0.17	0.40	6.34	0.71	22.38	0.53	1.27	0.56	0.09	0.16			2.19
<i>Chydorus sphaericus</i>	0.10	0.13	0.32	0.05	1.39	1.78	1.15	18.57	3.83	11.43	0.48		0.95	9.09	0.64	3.33
<i>Diaphanosoma birgei</i>																
<i>Diaphanosoma brachyurum</i>	0.06	0.13			0.20	0.20	0.09	0.29	0.13			0.09	0.32			0.10
<i>Diaphanosoma</i> spp.																
<i>Eurycercus lamellatus</i>							0.26	1.43	0.13	2.06				0.42		0.29
<i>Graptoleberis testudinaria</i>					0.20	0.40		2.86	0.53	1.91	0.03			0.63		0.44
<i>Leptodora kindtii</i>	0.14	0.11	0.09	0.07	0.07	0.93		0.14	0.10		0.23	0.10	0.14			0.14
<i>Leydigia leydigi</i>																
<i>Macrothrix</i> spp.																
<i>Pleuroxus</i> spp.																
<i>Scapholeberis aurita</i>																
<i>Scapholeberis mucronata</i>								0.29								0.02
<i>Scapholeberis</i> spp.									0.13							0.01
<i>Sida crystallina</i>	0.06	0.25		0.02	1.19	0.79	0.44	1.43	0.53	0.32	0.32	0.09	1.27	3.60	7.34	1.18
<i>Simocephalus serrulatus</i>					0.59	0.79		0.95	0.26	2.86			0.16	1.48		0.47
<i>Simocephalus vetulus</i>																
<i>Streblocerus serricaudatus</i>						0.07										<0.01
TOTAL CLADOCERA	3.45	2.41	3.67	1.16	14.94	26.56	12.62	79.30	16.21	22.67	7.34	4.35	13.31	32.56	21.70	17.59
COPEPODA																
<i>Bryocamptus</i> spp.				0.02				8.10	0.93	15.88	0.08					1.67
<i>Diaicyclops bicuspidatus thomasi</i>	2.81	3.62	6.74	3.88	19.03	42.61	3.71	74.29	21.15	16.19	8.41	5.30	19.67	9.94	10.53	16.53
<i>Episura nevadensis</i>	0.14	0.06	0.08	0.07		0.20	0.09	0.95	0.53		0.40	0.26	0.79	0.21	0.64	0.30
<i>Leptodiaptomus ashlandi</i>	1.52	0.70	2.86	3.38	20.61	18.43	1.24	27.14	10.70		10.07	10.07	16.66	2.54	3.83	8.13
<i>Skistodiaptomus oregonensis</i>	1.00		0.24	0.31	0.59			3.33	0.40		0.48		0.95			0.49
<i>Mesocyclops</i>			0.08			0.59		15.71	0.66	7.30				0.42		1.65
<i>Naupli</i>	6.95	7.94	5.39	3.17	13.87	24.56	5.65	162.86	22.07	28.26	9.12	8.03	19.20	7.83	13.40	22.55
TOTAL COPEPODA	12.42	12.32	15.39	10.63	54.10	66.41	10.69	292.36	56.44	67.63	28.64	15.66	57.27	20.94	26.40	51.32
TOTAL ZOOPLANKTON	15.87	14.73	19.96	11.99	69.04	112.97	23.31	371.66	72.65	90.50	35.96	20.23	70.50	53.50	50.10	66.61
OSTRACODA																
		0.19	0.16	0.05		2.38	0.35	25.24	2.91	33.18	0.32	0.35	0.32	2.34		4.52

Table D.6. Mean monthly zooplankton densities (organisms/liter) for Pend Oreille River study sites -(littoral) during September, 1990.

	T1	T2	T3	T3A	T4	T4A	T5	T6	T7	T8	T9	T10	T11	Mean
CLADOCERA														
<i>Daphnia ambigua</i>	1.13	0.79	0.71	0.19	1.59	0.19	0.91	2.17	1.14	0.26	1.48	2.95	3.97	1.34
<i>Daphnia galeata mendota</i>														
<i>Daphnia parvula</i>														
<i>Daphnia pulicaria</i>														
<i>Daphnia retrocurva</i>														
<i>Daphnia thorata</i>	0.19	0.06		0.06				0.25		0.05	0.07		0.48	0.09
<i>Acroporus harpae</i>														
<i>Alona gutta</i>	0.08		0.24	1.15	0.63				0.02	0.79	0.07	5.00	0.16	0.63
<i>Bosmina longirostris</i>	3.29	6.47	6.82	3.63	8.73	3.72	3.64	4.84	1.56	1.59	2.91	0.91	4.60	4.05
<i>Camptocercus rectirostris</i>		0.06	1.35	2.48	2.86		17.73		0.02	3.70		16.14	0.16	3.42
<i>Ceriodaphnia quadrangula</i>														
<i>Ceriodaphnia spp.</i>	0.04	0.61	5.00	43.77	18.88	12.22	11.34	1.15	0.19	0.26	0.11	44.77		10.64
<i>Chydorus sphaericus</i>		0.12	0.32	29.23	0.95	2.13	3.18		0.13	17.46		6.59		4.62
<i>Diaphanosoma birgei</i>	0.08	0.24	0.03				0.91	0.13		0.26	0.16	0.45	0.16	0.19
<i>Diaphanosoma brachyurum</i>									0.08					0.01
<i>Diaphanosoma spp.</i>														
<i>Eurycercus lamellatus</i>		0.18		0.57	0.32	1.06					0.05	0.91	0.32	0.38
<i>Graptoleberis testudinaria</i>		0.18		0.38	0.32	0.27					0.05			0.35
<i>Leptodora kindti</i>														
<i>Leydigia leydigi</i>														
<i>macrothrix spp.</i>														
<i>Pleuroxus spp.</i>														
<i>Scapholeberis aurita</i>														
<i>Scapholeberis mucronata</i>														
<i>Scapholeberis spp.</i>		0.04												co. 01
<i>Sida crystallina</i>						0.53								0.04
<i>Simocephalus serrulatus</i>	0.04	0.31	0.32		0.16					0.26	0.02			0.09
<i>Simocephalus vetulus</i>				0.23			3.18			1.85		0.23		0.42
<i>Streblocerus serricaudatus</i>														
TOTAL CLADOCERA	4.85	9.06	14.95	81.66	34.75	20.22	40.69	8.54	3.14	27.54	4.87	61.36	9.85	26.28
COPEPODA														
<i>Bryocamptus spp.</i>					0.16	0.53								0.05
<i>Diacyclops bicuspidatus thomasi</i>	0.42	2.99	3.09	11.65	4.60	7.17	22.27	2.29	0.95	10.05	1.59	15.00	6.51	6.81
<i>Episura nevadensis</i>	0.08		0.24					0.25			0.05			0.05
<i>Leptodiaptomus ashlandi</i>	0.72		0.24		0.48				1.05	0.53	1.11	2.27	2.54	0.69
<i>Skistodiaptomus oregonensis</i>		1.40						3.19						0.35
<i>Mesocyclops</i>		0.31	0.63	2.87	2.38		4.09			3.17	0.37	15.23		2.23
<i>Naupli</i>	0.91	5.25	25.54	27.89	13.97	17.80	38.86	8.03	2.90	24.07	1.69	35.23	4.60	15.90
TOTAL COPEPODA	2.13	9.95	29.74	42.41	21.59	25.50	65.22	13.76	4.90	37.62	4.61	67.73	13.65	26.09
TOTAL ZOOPLANKTON	6.96	19.01	44.69	124.07	56.34	45.72	106.11	22.30	6.04	65.36	9.66	149.09	23.50	52.36
OSTRACODA	0.04	0.98	21.33	11.65	8.57	17.01	58.86	0.76	0.04	88.34	0.16	22.73		17.73

APPENDIX E

SEASONAL FEEDING HABITS OF FISH FOUND IN THE PEND OREILLE RIVER

SEASONAL FEEDING HABITS OF YELLOW PERCH

Table E.1. Seasonal (September) feeding habits of 0+ yellow perch (n=3) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
EPHEMEROPTERA				
Baetidae	1.0 ± 1.7 (14.3)	0.5 (2.3)	33.3	10.0
ODONATA				
Coenagrionidae	1.7 ± 2.9 (23.8)	1.0 (4.5)	33.3	12.3
DIPTERA				
Chironomidae larvae	1.0 ±1.0 (14.3)	0.1 (0.5)	66.6	16.3
CLADOCERA				
Chydoridae	2.0 ± 3.5 (28.6)	20.3 (91.9)	33.3	30.8
AMPHIPODA				
Talitridae	0.7 ± 0.6 (9.5)	0.1 (0.5)	66.6	15.3
OSTRACODA	0.7 ± 0.6 (9.5)	0.1 (0.5)	66.6	15.3

Table E.2. Annual feeding habits of 0+ yellow perch (n=3) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
EPHEMEROPTERA				
Baetidae	4.8 (17.5)	0.2 (2.6)	11.1	10.4
ODONATA				
Coenagrionidae	7.9 (28.8)	0.3 (3.9)	11.1	14.6
DIPTERA				
Chironomidae larvae	4.8 (17.5)	<0.1 (1.3)	22.2	13.7
CLADOCERA				
Chydoridae	9.5 (34.7)	<6.8 (89.5)	11.1	45.1
AMPHIPODA				
Talitridae	0.2 (0.7)	<0.1 (1.3)	22.2	8.1
OSTRACODA	0.2 (0.7)	<0.1 (1.3)	22.2	8.1

Table E.3. Seasonal (April) feeding habits of 1+ yellow perch (n=6) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
EPHEMEROPTERA				
Baetidae	0.5 ± 0.6 (4.4)	3.0 (18.2)	50.0	16.7
ODONATA				
Coenagrionidae	0.3 ± 0.8 (2.9)	1.4 (8.5)	16.7	6.5
DIPTERA				
Chironomidae larvae	5.0 ± 8.1 (44.1)	2.8 (17.0)	66.7	29.5
Chironomidae pupae	4.8 ± 5.6 (42.7)	4.7 (28.5)	66.7	31.8
AMPHIPODA				
Talitridae	0.7 ± 1.2 (5.9)	4.6 (27.9)	33.3	15.5

Table E.4. Seasonal (July) feeding habits of 1+ yellow perch (n=11) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
TRICHOPTERA				
Hydroptilidae	2.5 ± 4.1 (2.7)	0.5 (1.1)	54.5	8.4
Polycentropodidae	0.1 ± 0.3 (0.1)	0.1 (0.2)	9.1	1.4
EPEMEROPTERA				
Tricorythidae	0.6 ± 1.1 (0.7)	0.8 (1.8)	27.3	4.3
ODONATA				
Coenagrionidae	2.0 ± 2.6 (2.2)	19.9 (43.4)	45.5	13.2
DIPTERA				
Chironomidae larvae	9.0 ± 17.9 (9.9)	5.0 (10.9)	72.7	13.5
Chironomidae pupae	2.0 ± 5.1 (2.2)	0.1 (0.2)	36.4	5.6
Ceratopogonidae	1.6 ± 3.1 (1.7)	0.1 (0.1)	27.3	4.2
COPEPODA				
Cyclopoida	2.4 ± 6.6 (2.6)	0.1 (0.2)	18.2	3.0
CLADOCERA				
Daphnidae	59.4 ± 91.6 (65.0)	12.4 (27.1)	63.6	22.5
Chydoridae	7.6 ± 9.2 (8.3)	1.1 (2.4)	72.7	12.1
AMPHIPODA				
Talitridae	4.2 ± 7.8 (4.6)	5.6 (12.2)	54.5	10.3
GASTROPODA				
Planorbidae	0.1 ± 0.3 (0.1)	0.1 (0.2)	9.1	1.4

Table E.5. Seasonal (September) feeding habits of 1+ yellow perch (n=5) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
EPEMEROPTERA				
Baetidae	1.8 ± 2.5 (2.5)	0.1 (0.6)	60.0	11.1
ODONATA				
Coenagrionidae	0.6 ± 0.9 (0.8)	0.5 (2.9)	33.3	6.5
HYDRACARINA	0.2 ± 0.5 (0.3)	0.3 (1.8)	20.0	3.9
DIPTERA				
Chironomidae larvae	49.6 ± 98.0 (69.3)	12.1 (71.2)	33.3	30.7
Chironomidae pupae	0.8 ± 1.8 (1.1)	0.1 (0.6)	16.7	3.2
COPEPODA				
Cyclopoida	3.0 ± 5.2 (4.2)	1.4 (8.2)	33.3	8.1
CLADOCERA				
Daphnidae	12.0 ± 17.3 (16.7)	0.7 (4.1)	60.0	14.3
Chydoridae	1.8 ± 2.1 (2.5)	0.3 (1.8)	60.0	11.4
AMPHIPODA				
Talitridae	0.8 ± 1.3 (1.1)	1.4 (8.2)	33.3	7.5
OSTRACODA	1.0 ± 2.2 (1.4)	0.1 (0.6)	16.7	3.3

Table E.6. Annual feeding habits of 1+ yellow perch (n=22) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
TRICHOPTERA				
Hydroptilidae	0.8 (1.4)	0.2 (0.7)	18.2	3.6
Polycentropodidae	0.1 (0.2)	<0.1 (0.4)	3.0	0.6
EPHEMEROPTERA				
Baetidae	0.8 (1.4)	1.0 (3.7)	36.7	7.4
Tricorythidae	0.2 (0.3)	0.3 (1.1)	9.1	1.9
ODONATA				
Coenagrionidae	1.0 (1.7)	7.3 (27.2)	31.8	10.8
HYDRACARINA	<0.1 (0.2)	0.1 (0.4)	6.7	1.3
DIPTERA				
Chironomidae larvae	21.2 (36.4)	6.6 (24.6)	57.6	21.0
Chironomidae pupae	2.5 (4.3)	1.6 (6.0)	39.9	8.9
Ceratopogonidae	0.5 (0.9)	<0.1 (0.4)	9.1	1.8
COPEPODA				
Cyclopoida	1.8 (3.1)	0.5 (1.9)	17.2	3.9
CLADOCERA				
Daphnidae	23.8 (40.9)	4.4 (16.4)	41.2	17.5
Chydoridae	3.1 (5.3)	0.5 (1.9)	44.2	9.1
AMPHIPODA				
Talitridae	1.9 (3.3)	3.9(14.6)	40.4	10.3
OSTRACODA	0.3 (0.5)	<0.1 (0.4)	5.6	1.2
GASTROPODA				
Planorbidae	<0.1 (0.2)	<0.1 (0.4)	3.0	0.6

Table E.7. Seasonal (April) feeding habits of 2+ yellow perch (n=1) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
DIPTERA				
Chironomidae pupae	2.0 (18.2)	2.8 (15.5)	100	33.4
MYCIDAE: Mysis	9.0 (81.8)	15.3 (84.5)	100	66.6

Table E.8. Seasonal (July) feeding habits of 2+ yellow perch (n=7) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
TRICHOPTER				
Hydroptilidae	15.4 ± 23.6 (6.0)	2.8 (4.1)	71.4	8.0
Polycentropidae	0.1 ± 0.4 (0.1)	0.1 (0.2)	14.3	1.4
EPHEMEROPTERA				
Baetidae	0.6 ± 0.9 (0.2)	0.1 (0.2)	28.6	2.9
Tricorythidae	2.7 ± 4.5 (1.1)	1.4 (2.1)	42.9	4.5
ODONATA				
Coenagrionidae	1.3 ± 0.8 (0.5)	11.0 (16.2)	85.7	10.1
HYDRACARINA	1.3 ± 1.6 (0.5)	0.2 (0.3)	57.1	5.7
DIPTERA				
Chironomidae larvae	6.0 ± 8.2 (2.3)	0.1 (0.2)	71.4	7.3
Chironomidae pupae	1.0 ± 2.2 (0.4)	0.1 (0.2)	28.6	2.9
Ceratopogonidae	0.6 ± 1.1 (0.2)	0.1 (0.2)	28.6	2.9
COPEPODA				
Cyclopoida	0.6 ± 0.5 (0.2)	0.1 (0.2)	57.1	5.7
CLADOCERA				
Daphnidae	213.9 ± 202.9 (82.9)	37.2 (54.6)	100.0	23.4
Chydoridae	2.0 ± 2.4 (0.8)	0.4 (0.6)	57.1	5.8
AMPHIPODA				
Talitridae	11.3 ± 10.6 (4.4)	12.0 (17.6)	100.0	12.0
OSTRACODA	0.4 ± 0.8 (0.2)	0.1 (0.2)	28.6	2.9
GASTROPODA				
Planorbidae	0.4 ± 0.8 (0.2)	1.8 (2.6)	28.6	3.1
Lymnaeidae	0.1 ± 0.4 (0.1)	0.6 (0.9)	14.3	1.5

Table E.9. Seasonal (September) feeding habits of 2+ yellow perch (n=15) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
TRICHOPTERA				
Hydroptilidae	0.5 ± 1.1 (<0.1)	2.3 (0.6)	20.0	3.0
Leptoceridae	0.2 ± 0.8 (<0.1)	0.8 (0.2)	6.7	1.0
EPHEMEROPTERA				
Baetidae	2.6 ± 6.1 (0.3)	1.2 (0.3)	26.7	4.0
Ephemerellidae	0.1 ± 0.5 (<0.5)	59.1 (14.1)	6.7	3.1
HYDRACARINA	0.3 ± 0.8 (<0.1)	0.1 (<0.1)	20.0	3.0
DIPTERA				
Chironomidae larvae	9.6 ± 23.5 (1.0)	13.2 (3.1)	53.3	8.4
Chironomidae pupae	1.7 ± 3.3 (0.2)	101.0 (24.0)	33.3	8.4
COPEPODA				
Cyclopoida	4.1 ± 11.5 (0.4)	0.2 (<0.1)	46.7	6.9
Calanoid	76.9 ± 194.5 (8.2)	27.6 (6.6)	40.0	8.0
CLADOCERA				
Daphnidae	826.1 ± 1170.3 (87.6)	81.8 (19.4)	86.7	28.4
Chydoridae	6.5 ± 20.8 (0.7)	6.7 (1.6)	33.3	5.2
AMPHIPODA				
Talitridae	4.8 ± 7.8 (0.5)	8.8 (2.1)	40.0	6.3
OSTRACODA	0.2 ± 0.4 (<0.1)	0.1 (<0.1)	20.0	3.0
GASTROPODA				
Planorbidae	9.3 ± 17.8 (1.0)	112.6 (26.8)	33.3	9.0
Physidae	0.4 ± 1.6 (<0.1)	0.1 (<0.1)	6.7	1.0
OSTEICHTHYES	<0.1 ± 0.3 (<0.1)	5.1 (1.2)	6.7	1.2

**Table E.IO. Annual feeding habits of 2+ yellow perch
(N=23) in the Pend Oreille River.**

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
TRICHOPTERA				
Hydroptilidae	5.3 (1.3)	1.7 (1.0)	30.5	4.7
Polycentropodidae	<0.1 (<0.1)	<0.1 (<0.1)	4.8	0.7
Leptoceridae	<0.1 (<0.1)	0.3 (0.2)	2.2	0.4
EPHEMEROPTERA				
Baetidae	1.1 (0.3)	0.4 (0.2)	18.4	2.7
Ephemerellidae	<0.1 (<0.1)	19.7 (11.6)	2.2	2.0
Tricorythidae	0.9 (0.2)	0.5 (0.3)	14.3	2.1
ODONATA				
Coenagrionidae	0.4 (<0.1)	3.7 (2.2)	28.6	4.4
HYDRACARINA	0.5 (0.1)	0.1 (<0.1)	25.7	3.7
DIPTERA				
Chironomidae larvae	5.2 (1.3)	4.4 (2.6)	41.6	6.5
Chironomidae pupae	1.6 (0.4)	34.6 (20.4)	54.9	10.8
Ceratopogonidae	0.2 (<0.1)	<0.1 (<0.1)	9.5	1.4
COPEPODA				
Cyclopoida	3.4 (0.8)	0.1 (<0.1)	34.6	5.1
Calanoid	25.6 (6.3)	9.2 (5.4)	13.3	3.6
CLADOCERA				
Daphnidae	346.7 (85.4)	39.7 (23.5)	62.2	24.5
Chydoridae	2.8 (0.7)	2.4 (1.4)	30.1	4.6
AMPHIPODA				
Mysidae	3.0 (0.7)	5.1 (3.0)	33.3	5.3
Talitridae	5.4 (1.3)	6.9 (4.1)	46.7	7.4
OSTRACODA	0.2 (<0.1)	<0.1 (<0.1)	16.2	2.3
GASTROPODA				
Planorbidae	3.2 (0.8)	38.1 (22.5)	20.6	6.3
Lymnaeidae	<0.1 (<0.1)	0.2 (0.1)	4.8	0.7
Physidae	0.1 (<0.1)	0.1 (<0.1)	2.2	0.3
OSTEICHTHYES	<0.1 (<0.1)	1.7 (1.0)	2.2	0.5

Table E.II. Seasonal (April) feeding habits of 3+ yellow perch (n=3) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
TRICHOPTERA				
Limnephilidae	0.7 ± 1.2 (3.6)	6.1 (15.9)	33.3	10.6
Leptoceridae	0.3 ± 0.6 (1.8)	18.0 (46.9)	33.3	16.4
EPEHEMEROPTERA				
Baetidae	0.3 ± 0.6 (1.8)	3.4 (8.9)	33.3	8.8
ODONATA				
Coenagrionidae	1.3 ± 2.3 (7.1)	5.2 (13.5)	33.3	10.8
DIPTERA				
Chironomidae larvae	13.3 ± 19.7 (71.4)	5.5 (14.3)	66.7	30.5
Chironomidae pupae	0.7 ± 1.2 (3.6)	0.1 (0.3)	33.3	7.4
AMPHIPODA				
Talitridae	2.0 ± 2.0 (10.7)	0.1 (0.3)	66.7	15.5

Table E.12. Seasonal (July) feeding habits of 3+ yellow perch (n=5) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
TRICHOPTERA				
Hydroptilidae	5.3 ± 9.8 (2.9)	3.9 (1.9)	60.0	7.0
Leptoceridae	0.4 ± 1.3 (0.2)	5.2 (2.5)	10.0	1.4
Polycentropodidae	2.7 ± 7.2 (1.5)	6.0 (2.9)	40.0	4.8
EPEHEMEROPTERA				
Tricorythidae	18.6 ± 58.8 (10.1)	40.8 (19.9)	10.0	4.3
ODONATA				
Coenagrionidae	1.2 ± 2.2 (0.7)	7.1 (3.5)	40.0	4.8
HYDRACARINA	2.8 ± 4.7 (1.5)	4.5 (2.2)	60.0	6.8
DIPTERA				
Chironomidae larvae	13.9 ± 16.4 (7.6)	19.2 (9.4)	100.0	12.6
Chironomidae pupae	1.8 ± 2.9 (1.0)	4.8 (2.3)	50.0	5.7
Ceratopogonidae	0.4 ± 0.5 (0.2)	3.8 (1.9)	40.0	4.5
COPEPODA				
Cyclopoida	0.4 ± 0.5 (0.2)	2.1 (1.0)	40.0	4.4
CLADOCERA				
Daphnidae	74.9 ± 113.1 (40.8)	22.3 (10.9)	80.0	14.2
Chydoridae	51.0 ± 119.5 (27.8)	20.3 (9.9)	60.0	10.5
AMPHIPODA				
Talitridae	4.5 ± 8.4 (2.5)	8.4 (4.1)	60.0	7.2
OSTRACODA	0.4 ± 0.7 (0.2)	1.3 (0.6)	30.0	3.3
GASTROPODA				
Planorbidae Physidae	01.54 ± 0.31 (<0.1%)	462.92 (225) (45)	40.0 10.0	70.16

Table E.13. Seasonal (September) feeding habits of 3+ yellow perch (n=11) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
TRICHOPTERA				
Hydroptilidae	0.5 ± 0.9 (0.1)	0.1 (<0.1)	27.3	3.9
Phryganeidae	3.6 ± 8.1 (0.9)	38.4 (22.6)	27.3	7.3
EPHEMEROPTERA				
Baetidae	0.7 ± 1.3 (0.2)	0.1 (<0.1)	27.3	3.9
ODONATA				
Coenagrionidae	0.2 ± 0.6 (<0.1)	0.8 (0.5)	9.1	1.4
DIPTERA				
Chironomidae larvae	9.3 ± 16.5 (2.3)	9.3 (5.5)	45.5	7.6
Chironomidae pupae	5.7 ± 16.1 (1.4)	4.0 (2.4)	54.5	8.3
Ceratopogonidae	<0.1 ± 0.3 (<0.1)	0.1 (<0.1)	9.1	1.3
COPEPODA				
Cyclopoida	1.2 ± 2.2 (0.3)	0.1 (<0.1)	36.4	5.3
Calanoid	21.8 ± 43.4 (5.4)	4.3 (2.5)	45.5	7.6
CLADOCERA				
Daphnidae	337.6 ± 520.6 (83.7)	27.5 (16.2)	72.7	24.6
Chydoridae	0.9 ± 1.7 (0.2)	0.3 (0.2)	27.3	4.0
AMPHIPODA				
Talitridae	15.6 ± 32.1 (3.9)	18.1 (10.7)	54.5	9.9
OSTRACODA	0.5 ± 1.0 (0.1)	0.1 (<0.1)	18.2	2.6
GASTROPODA				
Planorbidae	3.1 ± 8.9 (0.8)	18.0 (10.6)	27.3	5.5
Lymnaeidae	0.5 ± 1.5 (0.1)	15.0 (8.8)	9.1	2.6
Physidae	2.1 ± 6.9 (0.5)	33.5 (19.7)	9.1	4.2

Table E.14. Annual feeding habits of 3+ yellow perch (n=19) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
TRICHOPTERA				
Hydroptilidae	1.9 (1.0)	1.3 (1.0)	29.1	4.5
Limnephilidae	0.2 (0.1)	2.0 (1.5)	11.1	1.8
Polycentropodidae	0.9 (0.5)	2.0 (1.5)	13.3	2.2
Leptoceridae	0.2 (0.1)	7.7 (5.9)	14.4	3.0
Phryganeidae	1.2 (0.6)	12.8 (9.8)	9.1	2.8
Ephemeroptera				
Baetidae	0.3 (0.2)	1.2 (0.9)	20.2	3.1
Tricorythidae	6.2 (3.3)	13.6 (10.4)	3.3	2.5
ODONATA				
Coenagrionidae	0.9 (0.5)	4.4 (3.4)	27.5	4.6
HYDRACARINA	0.9 (0.5)	1.5 (1.1)	20.0	3.1
DIPTERA				
Chironomidae larvae	12.2 (6.6)	11.3 (8.6)	70.7	12.4
Chironomidae pupae	2.7 (1.5)	3.0 (2.3)	45.9	7.2
Ceratopogonidae	0.2 (0.1)	1.3 (1.0)	16.4	2.5
COPEPODA				
Cyclopoida	0.5 (0.3)	0.7 (0.5)	25.5	3.8
Calanoid	7.3 (4.0)	1.4 (1.1)	15.2	2.9
CLADOCERA				
Daphnidae	137.5 (74.4)	16.6 (12.7)	50.9	20.0
Chydoridae	0.3 (0.2)	0.1 (<0.1)	9.1	1.4
AMPHIPODA				
Talitridae	7.4 (4.0)	8.9 (6.8)	60.4	10.3
OSTRACODA	0.3 (0.2)	0.5 (0.4)	16.1	2.4
GASTROPODA				
Planorbidae	2.8 (1.5)	21.4 (16.3)	22.4	5.8
Lymnaeidae	0.2 (0.1)	5.0 (3.8)	3.0	1.0
Physidae	0.7 (0.4)	14.2 (10.8)	6.4	2.6

Table E.15. Seasonal (April) feeding habits of 4+ yellow perch (n=21) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
TRICHOPTERA				
Hydroptilidae	0.2 ± 0.9 (0.4)	0.1 (<0.1)	9.5	1.8
Limnephilidae	0.4 ± 1.1 (0.9)	33.1 (11.3)	19.1	5.6
EPHEMEROPTERA				
Baetidae	1.1 ± 2.0 (1.9)	20.9 (7.0)	42.9	9.4
ODONATA				
Coenagrionidae	1.7 ± 4.3 (2.8)	44.1 (14.8)	52.4	12.7
DIPTERA				
Chironomidae larvae	7.7 ± 12.0 (12.8)	16.2 (5.4)	76.2	17.1
Chironomidae pupae	40.1 ± 83.7 (66.5)	86.0 (28.9)	66.7	29.3
Ceratopogonidae	0.6 ± 2.8 (1.0)	0.1 (<0.1)	4.8	1.1
Simuliidae	6.0 ± 15.4 (10.0)	40.8 (13.7)	23.8	8.6
Simuliidae pupae	1.4 ± 6.6 (2.4)	16.3 (5.5)	4.8	2.3
COPEPODA				
AMPHIPODA				
Talitridae	0.4 ± 0.6 (0.6)	1.1 (0.4)	33.3	6.2
MYCIDAE: Mysis	0.3 ± 1.0 (0.5)	12.2 (4.1)	9.5	2.6
GASTROPODA				
Planorbidae	0.2 ± 0.9 (0.3)	1.9 (0.6)	4.8	1.0
OLIGOCHAETA				
Lumbriculidae	0.1 ± 0.4 (0.2)	24.6 (8.3)	4.8	2.4

Table E.16. Seasonal (July) feeding habits of 4+ yellow perch (n=25) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
TRICHOPTERA				
Hydroptilidae	3.3 ± 5.1 (2.0)	3.9 (0.8)	60.0	6.6
Leptoceridae	0.1 ± 0.4 (<0.1)	1.9 (0.4)	8.0	0.9
Polycentropidae	2.9 ± 9.9 (1.8)	48.6 (10.0)	44.0	5.9
EPHEMEROPTERA				
Baetidae	0.4 ± 0.5 (0.2)	2.9 (0.6)	36.0	3.9
Tricorythidae	0.5 ± 1.3 (0.3)	4.6 (1.0)	16.0	1.8
ODONATA				
Coenagrionidae	4.0 ± 9.2 (2.5)	175.3 (36.1)	56.0	10.0
COLEOPTERA				
Dytiscidae	0.1 ± 0.2 (<0.1)	0.1 (<0.1)	4.0	0.4
HYDRACARINA	3.0 ± 5.1 (1.9)	9.7 (2.0)	52.0	5.9
DIPTERA				
Chironomidae larvae	7.3 ± 9.4 (4.5)	19.5 (4.0)	76.0	8.9
Chironomidae pupae	1.4 ± 3.1 (0.9)	3.8 (0.8)	44.0	4.8
Ceratopogonidae	0.6 ± 1.1 (0.4)	0.4 (<0.1)	28.0	3.0
Ceratopogonidae pupae	0.2 ± 0.8 (0.2)	0.4 (<0.1)	12.0	1.3
COPEPODA				
Cyclopoida	1.4 ± 3.9 (0.9)	0.3 (<0.1)	36.0	3.9
Calanoid	1.1 ± 5.4 (0.7)	0.1 (<0.1)	4.0	0.5
CLADOCERA				
Daphnidae	117.4 ± 168.7 (72.7)	83.3 (17.1)	68.0	16.6
Chydoridae	3.4 ± 5.0 (2.1)	3.3 (0.7)	48.0	5.4
AMPHIPODA				
Talitridae	10.7 ± 17.0 (6.6)	46.9 (9.7)	68.0	8.9
OSTRACODA	0.6 ± 2.0 (0.4)	0.5 (0.1)	20.0	2.2
GASTROPODA				
Planorbidae	2.7 ± 7.4 (1.7)	51.9 (10.7)	36.0	5.1
Lymnaeidae	0.4 ± 0.9 (0.3)	25.9 (5.3)	24.0	3.1
Physidae	0.1 ± 0.3 (0.1)	2.8 (0.6)	8.0	0.9

Table E.17. Seasonal (September) feeding habits of 4+ yellow perch (N=12) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
TRICHOPTERA				
Hydroptilidae	<0.1 ± 0.3 (<0.1)	0.1 (<0.1)	8.3	1.3
EPHEMEROPTERA				
Baetidae	0.9 ± 2.0 (0.1)	2.1 (1.7)	33.3	5.3
ODONATA				
Coenagrionidae	<0.1 ± 0.3 (<0.1)	0.1 (<0.1)	8.3	1.3
HYDRACARINA	0.3 ± 0.7 (<0.1)	0.1 (<0.1)	25.0	3.8
DIPTERA				
Chironomidae larvae	14.4 ± 20.5 (2.1)	15.5 (12.6)	50.0	9.8
Chironomidae pupae	2.9 ± 3.8 (0.4)	0.8 (0.7)	50.0	7.8
COPEPODA				
Cyclopoida	<0.1 ± 0.3 (<0.1)	0.1 (<0.1)	8.3	1.3
Calanoid	123.4 ± 254.7 (18.3)	24.7 (20.1)	41.7	12.2
CLADOCERA				
Daphnidae	518.3 ± 656.7 (76.9)	41.0 (33.4)	83.3	29.4
Chydoridae	4.9 ± 12.9 (0.7)	2.1 (1.7)	33.3	5.4
AMPHIPODA				
Talitridae	1.0 ± 1.7 (0.2)	1.5 (1.2)	41.7	6.5
OSTRACODA	0.6 ± 1.5 (<0.1)	0.1 (<0.1)	16.7	2.6
GASTROPODA				
Planorbidae	6.5 ± 15.0 (1.0)	32.7 (26.7)	50.0	11.8
Lymnaeidae	0.3 ± 0.9 (<0.1)	1.8 (1.5)	8.3	1.5

Table E.18. Annual feeding habits of 4+ yellow perch (n=58) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
TRICHOPTERA				
Hydroptilidae	1.2 (0.4)	1.4 (0.5)	25.9	3.7
Limnephilidae	0.1 (<0.1)	11.0 (3.7)	6.4	1.4
Leptoceridae	<0.1 (<0.1)	0.6 (0.2)	2.7	0.4
Polycentropodidae	1.0 (0.3)	16.2 (5.5)	14.7	2.8
EPHEMEROPTERA				
Baetidae	0.8 (0.3)	8.6 (2.9)	3.7	5.6
Tricorythidae	0.2 (<0.1)	1.5 (0.5)	5.3	0.8
ODONATA				
Coenagrionidae	1.9 (0.6)	73.2 (24.7)	38.9	8.9
COLEOPTERA				
Dytiscidae	<0.1 (<0.1)	<0.1 (<0.1)	1.3	0.2
DIPTERA				
Chironomidae larvae	9.8 (3.3)	10.6 (3.6)	67.4	10.3
Chironomidae pupae	14.8 (5.0)	30.2 (10.2)	53.6	9.5
Ceratopogonidae	0.4 (0.1)	0.2 (<0.1)	10.9	1.5
Ceratopogonidae pupae	<0.1 (<0.1)	1.0 (0.3)	4.0	0.6
Simuliidae	2.0 (0.7)	13.6 (4.6)	7.9	1.8
Simuliidae pupae	0.5 (0.2)	5.4 (1.8)	1.6	0.5
COPEPODA				
Cyclopoida	0.5 (0.2)	0.1 (<0.1)	14.8	2.1
Calanoid	41.5 (13.9)	8.3 (2.8)	15.2	4.4
CLADOCERA				
Daphnidae	211.9 (70.9)	41.4 (14.0)	50.4	18.8
Chydoridae	2.8 (0.9)	1.8 (0.6)	27.1	4.0
AMPHIPODA				
Talitridae	4.0 (1.3)	16.5 (5.6)	47.7	7.6
Mycidae	0.1 (<0.1)	4.1 (1.4)	3.2	0.7
OSTRACODA	0.4 (0.1)	0.2 (<0.1)	12.2	1.7
GASTROPODA				
Planorbidae	3.1 (1.0)	28.8 (9.7)	30.3	5.7
Lymnaeidae	0.2 (<0.1)	9.2 (3.1)	10.8	1.9
Physidae	<0.1 (<0.1)	0.9 (0.3)	2.7	0.4
OLIGOCHAETA				
Lumbriculidae	co.1 (<0.1)	8.2 (2.8)	1.6	0.6

Table E.19. Seasonal (April) feeding habits of 5+ yellow perch (n=16) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
TRICHOPTERA				
Limnephilidae	0.2 ± 0.8 (0.2)	45.7 (16.1)	6.3	4.8
EPHEMEROPTERA				
Baetidae	0.6 ± 1.0 (0.5)	5.8 (2.0)	31.3	7.2
ODONATA				
Coenagrionidae	2.0 ± 5.1 (1.7)	32.2 (11.3)	25.0	8.1
DIPTERA				
Chironomidae larvae	9.1 ± 25.1 (7.8)	18.0 (6.3)	56.3	15.0
Chironomidae pupae	102.3 ± 148.6 (88.3)	156.2 (54.9)	81.3	47.8
AMPHIPODA				
Talitridae	1.3 ± 2.3 (1.1)	6.4 (2.3)	31.3	7.4
MYCIDAE: Mysis	0.3 ± 0.5 (0.2)	13.4 (4.7)	25.0	6.4
OLIGOCHAETA: Naididae	<0.1 ± 0.3 (<0.1)	3.4 (1.2)	6.3	1.6
TERRESTRIALS				
Corixidae	0.1 ± 0.3 (<0.1)	3.7 (1.2)	6.3	1.6

Table E.20. Seasonal (July) feeding habits of 5+ yellow perch (n=10) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
TRICHOPTERA				
Hydroptilidae	0.6 ± 1.1 (0.8)	2.2 (0.8)	30.0	4.0
Polycentropidae	2.9 ± 6.6 (3.7)	16.4 (5.8)	40.0	6.2
EPHEMEROPTERA				
Baetidae	0.6 ± 0.7 (0.8)	1.4 (0.5)	50.0	6.4
Tricorythidae	0.1 ± 0.3 (0.1)	0.1 (<0.1)	10.0	1.3
ODONATA				
Coenagrionidae	1.1 ± 1.9 (1.4)	14.3 (5.1)	30.0	4.6
COLEOPTERA				
Dytiscidae	0.3 ± 0.7 (0.4)	0.1 (<0.1)	20.0	2.6
HYDRACARINA	4.8 ± 7.4 (6.1)	3.5 (1.2)	40.0	5.9
DIPTERA				
Chironomidae larvae	2.3 ± 4.7 (2.9)	0.3 (0.1)	30.0	4.1
Chironomidae pupae	0.4 ± 0.7 (0.5)	0.1 (<0.1)	30.0	3.8
Ceratopogonidae	0.2 ± 0.6 (0.3)	1.2 (0.4)	10.0	1.3
CLADOCERA				
Daphnidae	50.9 ± 63.8 (64.8)	9.0 (3.2)	70.0	23.2
Chydoridae	3.1 ± 8.1 (4.0)	2.0 (0.7)	30.0	4.4
AMPHIPODA				
Talitridae	7.3 ± 14.2 (9.3)	8.5 (3.0)	40.0	6.6
GASTROPODA				
Planorbidae	2.0 ± 4.1 (2.6)	19.8 (7.0)	30.0	5.0
Lymnaeidae	1.1 ± 1.7 (1.4)	33.1 (11.7)	40.0	6.7
Physidae	0.7 ± 1.1 (0.9)	17.8 (6.3)	40.0	5.9
OSTEICHTHYES	0.1 ± 0.3 (0.1)	153.1 (54.1)	10.0	8.0

Table E.21. Seasonal (September) feeding habits of 5+ yellow perch (n=5) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
TRICHOPTERA				
Hydroptilidae	5.2 ± 8.9 (1.8)	1.8 (1.2)	80.0	10.1
Polycentropodidae	0.2 ± 0.5 (<0.1)	0.1 (<0.1)	20.0	2.5
EPHEMEROPTERA				
Baetidae	0.6 ± 0.9 (0.2)	1.2 (0.8)	40.0	5.0
HYDRACARINA	0.4 ± 0.9 (0.1)	0.1 (<0.1)	20.0	2.5
DIPTERA				
Chironomidae larvae	15.4 ± 34.4 (5.4)	6.6 (4.4)	20.0	3.6
Chironomidae pupae	2.8 ± 3.1 (1.0)	1.3 (0.9)	80.0	10.0
COPEPODA				
Cydopoida	0.4 ± 0.5 (0.1)	0.1 (<0.1)	40.0	4.9
Cahnoïd	0.6 ± 0.9 (0.2)	0.1 (<0.1)	40.0	4.9
CLADOCERA				
Daphnidae	242.2 ± 404.4 (84.6)	8.6 (5.8)	100.0	23.2
Chydoridae	1.6 ± 3.6 (0.6)	0.1 (<0.1)	20.0	2.5
AMPHIPODA				
Talitridae	2.2 ± 2.8 (0.8)	0.8 (0.5)	80.0	9.9
GASTROPODA				
Planorbidae	11.0 ± 15.0 (3.8)	29.2 (19.5)	60.0	10.2
Lymnaeidae	3.8 ± 8.5 (1.3)	99.4 (66.5)	20.0	10.7

Table E.22. Annual feeding habits of 5+ yellow perch (n=31) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
TRICHOPTERA				
Hydroptilidae	1.9 (1.2)	1.3 (0.5)	36.7	5.6
Limnephilidae	<0.1 (<0.1)	15.2 (6.4)	2.1	1.3
Polycentropodidae	1.0 (0.6)	5.5 (2.3)	20.0	3.4
EPHEMEROPTERA				
Baetidae	0.6 (0.4)	2.8 (1.2)	40.0	6.2
Tricorythidae	<0.1 (<0.1)	<0.1 (<0.1)	3.3	0.5
ODONATA				
Coenagrionidae	1.0 (0.6)	15.5 (6.5)	18.3	3.7
COLEOPTERA				
Dytiscidae	0.1 (<0.1)	<0.1 (<0.1)	6.7	1.0
HYDRACARINA	0.1 (<0.1)	1.2 (0.5)	20.0	3.0
DIPTERA				
Chironomidae larvae	8.9 (5.6)	8.3 (3.5)	35.4	6.5
Chironomidae pupae	35.2 (22.2)	52.5 (22.0)	63.8	15.9
Ceratopogonidae	<0.1 (<0.1)	0.4 (0.2)	3.3	0.5
COPEPODA				
Cyclopoida	0.1 (<0.1)	<0.1 (<0.1)	13.3	2.0
Calanoid	0.2 (0.1)	<0.1 (<0.1)	13.3	2.0
CLADOCERA				
Daphnidae	97.7 (61.5)	5.9 (2.5)	56.7	17.7
Chydoridae	1.6 (1.0)	0.7 (0.3)	16.7	2.6
AMPHIPODA				
Talitridae	3.6 (2.3)	5.2 (2.2)	50.4	8.1
Mycidae	0.1 (<0.1)	4.5 (1.9)	8.3	1.5
GASTROPODA				
Planorbidae	4.3 (2.7)	16.3 (6.8)	30.0	5.8
Lymnaeidae	1.6 (1.0)	44.2 (18.5)	20.0	5.8
Physidae	0.2 (0.1)	5.9 (2.5)	13.3	2.3
OSTEICHTHYES	<0.1 (<0.1)	51.0 (21.3)	3.3	3.6
OLIGOCHAETA				
Naididae	<0.1 (<0.1)	1.1 (0.5)	2.1	0.4
TERRESTRIALS				
Corixidae	<0.1 (<0.1)	1.2 (0.4)	2.1	0.4

Table E.23. Seasonal (September) feeding habits of 6+ yellow perch (n=2) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence --	IRI --
TRICHOPTERA				
Hydroptilidae	1.0± 0.0 (0.4)	0.1 (1.7)	100.0	13.6
Ephemeroptera				
Baetidae	1.0 ± 1.4 (0.4)	0.6 (10.3)	50.0	8.1
DIPTERA				
Chironomidae larvae	1.5 ± 0.7 (0.6)	0.1 (1.7)	100.0	13.6
Chironomidae pupae	1.5 ± 0.7 (0.6)	0.1 (1.7)	100.0	13.6
CLADOCERA				
Daphnidae	1249.0 ± 352.1 (96.1)	4.7 (81.0)	50.0	30.3
Chydoridae	4.0 ± 2.8 (1.5)	0.1 (1.7)	100.0	13.8
AMPHIPODA				
Talitridae	1.0 ± 1.4 (0.4)	0.1 (1.7)	50.0	6.9

Table E.24. Annual feeding habits of 6+ yellow perch (n=2) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
TRICHOPTERA				
Hydroptilidae	0.3 (0.3)	<0.1 (4.3)	33.3	9.9
Ephemeroptera				
Baetidae	0.3 (0.3)	0.2 (8.7)	16.7	6.7
DIPTERA				
Chironomidae larvae	0.5 (0.6)	<0.1 (4.3)	33.3	10.0
Chironomidae pupae	0.5 (0.6)	<0.1 (4.3)	33.3	10.0
CLADOCERA				
Daphnidae	83.0 (96.3)	1.6 (69.6)	16.7	47.7
Chydoridae	1.3 (1.5)	<0.1 (4.3)	33.3	10.2
AMPHIPODA				
Talitridae	0.3 (0.3)	<0.1 (4.3)	16.7	5.6

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Table E.25. Seasonal feeding (July) habits of 0+ largemouth bass (n=7) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
EPHEMEROPTERA				
Baetidae	0.9 ± 0.9 (3.6)	2.1 (23.6)	57.1	15.5
DIPTERA				
Chironomidae larvae	2.3 ± 1.6 (9.5)	0.7 (7.9)	85.7	32.1
Chironomidae pupae	0.1 ± 0.4 (0.6)	2.6 (29.2)	14.3	8.1
CLADOCERA				
Daphnidae	18.7 ± 43.9 (78.0)	2.8 (31.5)	57.1	30.7
Chydoridae	2.0 ± 3.6 (8.3)	0.7 (7.9)	57.1	13.5

Table E.26. Seasonal feeding (September) habits of 0+ largemouth bass (n=10) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
DIPTERA				
Chironomidae larvae	0.3 ± 0.9 (0.1)	0.1 (<0.1)	10.0	2.7
Chironomidae pupae	0.3 ± 0.5 (0.1)	0.1 (<0.1)	30.0	7.9
COPEPODA				
Cyclopoida	7.4 ± 23.4 (3.4)	0.1 (<0.1)	10.0	3.6
CLADOCERA				
Daphnidae	206.5 ± 455.4 (95.4)	1.5 (1.0)	30.0	33.3
Chydoridae	0.3 ± 1.0 (0.1)	0.1 (<0.1)	10.0	2.7
AMPHIPODA				
Talitridae	0.7 ± 2.2 (0.3)	0.1 (<0.1)	10.0	2.7
OSTEICHTHYES	0.8 ± 0.6 (0.4)	133.9 (86.8)	70.0	41.4
TERRESTRIALS	0.1 ± 0.3 (<0.1)	18.3 (11.9)	10.0	5.8

Table E.27. Annual feeding habits of 0+ largemouth bass (n=17) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
EPHEMEROPTERA				
Baetidae	0.3 (0.4)	0.7 (1.3)	19.0	5.9
DIPTERA				
Chironomidae larvae	0.9 (1.1)	0.3 (0.6)	31.9	9.5
Chironomidae pupae	0.1 (0.1)	0.9 (1.7)	18.1	5.6
COPEPODA				
Cyclopoida	2.5 (3.1)	<0.1 (0.2)	3.3	1.9
CLADOCERA				
Daphnidae	75.1 (93.5)	1.4 (2.6)	29.0	35.4
Chydoridae	0.8 (1.0)	0.3 (0.6)	22.4	6.8
AMPHIPODA				
Talitridae	0.2 (0.2)	<0.1 (0.2)	3.3	1.0
OSTEICHTHYES	0.3 (0.4)	44.6 (81.8)	23.3	29.8

Table E.28. Seasonal (April) feeding habits of 1+ largemouth bass (n=1) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
ODONATA				
Coenagrionidae	9.0 (52.9)	6.6 (69.5)	100	44.5
DIPTERA				
Chironomidae larvae	5.0 (29.4)	2.8 (29.5)	100	31.8
Chironomidae pupae	3.0 (17.6)	0.1 (1.1)	100	23.7

Table E.29. Seasonal (July) feeding habits of 1+ largemouth bass (n=11) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
EPHEMEROPTERA				
Baetidae	1.4 ± 3.0 (5.4)	10.2 (17.1)	36.4	12.2
Tricorythidae	0.1 ± 0.3 (0.3)	0.4 (0.7)	9.1	2.1
ODONATA				
Coenagrionidae	2.2 ± 3.6 (8.0)	37.1 (62.3)	54.5	25.9
HYDRACARINA	0.1 ± 0.3 (0.3)	1.0 (1.7)	9.1	2.3
DIPTERA				
Chironomidae larvae	0.8 ± 1.3 (3.0)	5.4 (9.1)	36.4	10.1
Chironomidae pupae	0.3 ± 0.7 (1.0)	0.1 (0.2)	18.2	4.0
COPEPODA				
Calanoida	15.4 ± 29.7 (56.5)	3.6 (6.1)	27.3	18.7
CLADOCERA				
Daphnidae	5.8 ± 11.0 (21.4)	0.9 (1.5)	45.4	14.2
Chydoridae	0.2 ± 0.4 (0.7)	0.2 (0.3)	18.2	4.0
AMPHIPODA				
Talitridae	0.9 ± 2.1 (3.3)	0.6 (1.0)	27.3	6.6

Table E.30. Seasonal (September) feeding habits of 1+ largemouth bass (n=6) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
EPHEMEROPTERA				
Baetidae	0.7 ± 1.2 (0.2)	0.1 (<0.1)	33.3	6.9
DIPTERA				
Chironomidae larvae	3.0 ± 3.0 (0.8)	0.1 (<0.1)	66.7	14.0
COPEPODA				
Cyclopoida	0.2 ± 0.4 (<0.1)	0.1 (<0.1)	16.7	3.5
Calanoida	0.2 ± 0.4 (<0.1)	0.1 (<0.1)	16.7	3.5
CLADOCERA				
Daphnidae	381.0 ± 468.1 (98.5)	0.1 (<0.1)	50.0	30.7
Chydoridae	0.2 ± 0.4 (<0.1)	0.1 (<0.1)	16.7	3.5
AMPHIPODA				
Talitridae	0.5 ± 0.8 (0.1)	0.1 (<0.1)	33.3	6.9
OSTEICHTHYES	0.3 ± 0.5 (<0.1)	3450.8 (99.8)	33.3	27.5
TERRESTRIALS	0.7 ± 1.6 (<0.1)	4.2 (0.1)	16.7	3.5

Table E.31. Annual feeding habits of 1+ largemouth bass (n=18) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
EPHEMEROPTERA				
Baetidae	0.7 (0.5)	3.4 (0.3)	23.2	5.0
Tricorythidae	<0.1 (<0.1)	0.1 (<0.1)	3.0	0.7
ODONATA				
Coenagrionidae	3.7 (2.6)	14.6 (1.2)	51.5	11.4
HYDRACARINA	<0.1 (<0.1)	0.3 (<0.1)	3.0	0.7
DIPTERA				
Chironomidae larvae	2.9 (2.0)	2.8 (0.2)	67.7	14.5
Chironomidae pupae	1.1 (0.8)	<0.1 (<0.1)	39.4	8.3
COPEPODA				
Calanoida	5.2 (3.6)	1.2 (0.1)	14.7	3.8
CLADOCERA				
Daphnidae	128.9 (89.8)	0.3 (<0.1)	31.8	25.2
Chydoridae	0.1 (<0.1)	0.1 (<0.1)	11.6	2.4
AMPHIPODA				
Talitridae	0.5 (0.3)	0.2 (<0.1)	20.2	4.3
OSTEICHTHYES	0.1 (<0.1)	1150.3 (97.9)	11.1	22.6

Table E.32. Seasonal (April) feeding habits of 2+ largemouth bass (n=1) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
EPHEMEROPTERA				
Baetidae	17.0 (53.1)	30.6 (73.3)	100	45.3
ODONATA				
Coenagrionidae	3.0 (9.4)	5.2 (12.5)	100	24.4
AMPHIPODA				
Talitridae	12.0 (37.5)	5.9 (14.2)	100	30.0

Table E.33. Seasonal (July) feeding habits of 2+ largemouth bass (n=12) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
EPHEMEROPTERA				
Baetidae	3.8 ± 5.9 (33.1)	36.6 (12.2)	50.0	22.0
Tricorythidae	2.2 ± 7.2 (18.7)	18.2 (6.1)	16.7	9.6
ODONATA				
Coenagrionidae	0.2 ± 0.4 (1.4)	1.4 (0.5)	16.7	4.3
DIPTERA				
Chironomidae larvae	1.6 ± 4.6 (13.7)	1.3 (0.4)	25.0	9.0
Chironomidae pupae	0.5 ± 1.2 (4.3)	0.7 (0.2)	16.7	4.9
Ceratopogonidae	0.2 ± 0.6 (1.4)	1.3 (0.4)	16.7	4.3
COPEPODA				
Cyclopoida	0.1 ± 0.3 (0.7)	0.2 (<0.1)	8.3	2.1
CLADOCERA				
Daphnidae	0.8 ± 2.9 (7.2)	0.8 (0.3)	8.3	3.6
Chydoridae	0.3 ± 0.6 (2.2)	0.1 (<0.1)	16.7	4.4
AMPHIPODA				
Talitridae	1.4 ± 4.0 (12.2)	2.6 (0.9)	25.0	8.8
OSTEICHTHYES	0.6 ± 1.0 (5.0)	237.0 (79.0)	33.3	27.1

Table E.34. Seasonal (September) feeding habits of 2+ largemouth bass (n=4) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
EPHEMEROPTERA				
Baetidae	12.5 ± 20.6 (24.3)	0.1 (14.3)	50.0	17.7
DIPTERA				
Chironomidae larvae	1.0 ± 2.0 (1.9)	0.1 (14.3)	25.0	8.2
Chironomidae pupae	0.3 ± 0.5 (0.5)	0.1 (14.3)	25.0	8.0
CLADOCERA				
Daphnidae	35.3 ± 69.8 (68.5)	0.1 (14.3)	50.0	26.5
Chydoridae	0.8 ± 1.0 (1.5)	0.1 (14.3)	50.0	13.2
AMPHIPODA				
Talitridae	0.8 ± 1.5 (1.5)	0.1 (14.3)	25.0	8.2
OSTEICHTHYES	1.0 ± 0.8 (1.9)	0.1 (14.3)	75.0	18.2

Table E.35. Annual feeding habits of 2+ largemouth bass (n=17) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
EPHEMEROPTERA				
Baetidae	11.1 (34.8)	22.4 (19.6)	66.7	25.4
Tricorythidae	0.7 (2.2)	6.1 (5.3)	5.6	2.7
ODONATA				
Coenagrionidae	1.1 (3.1)	2.2 (1.9)	38.9	9.2
DIPTERA				
Chironomidae larvae	0.9 (2.8)	0.5 (0.4)	16.7	4.2
Chironomidae pupae	0.3 (0.9)	0.3 (0.3)	13.9	3.2
Ceratopogonidae	<0.1 (0.3)	0.4 (0.3)	5.6	1.3
COPEPODA				
Cyclopoida	<0.1 (0.3)	<0.1 (<0.1)	2.8	0.7
CLADOCERA				
Daphnidae	12.0 (37.6)	0.3 (0.3)	19.4	12.0
Chydoridae	0.4 (1.3)	<0.1 (<0.1)	22.2	4.9
AMPHIPODA				
Talitridae	4.7 (14.7)	2.9 (2.5)	50.0	14.1
OSTEICHTHYES	0.5 (1.6)	79.0 (69.1)	36.1	22.4

Table E.36. Seasonal (April) feeding habits of 3+ largemouth bass (n=2) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
EPHEMEROPTERA				
Baetidae	1.5 ± 2.1 (37.5)	4.2 (2.9)	50.0	22.6
ODONATA				
Coenagrionidae	1.0 ± 0.0 (25.0)	3.7 (2.5)	too	31.9
Aeshnidae	1.5 ± 2.1 (37.5)	138.9 (94.6)	50.0	45.5

Table E.37. Seasonal (July) feeding habits of 3+ largemouth bass (n=10) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
TRICHOPTERA				
Leptoceridae	0.1 ± 0.3 (1.3)	0.1 (<0.1)	10.0	2.9
EPTHEMEROPTERA				
Baetidae	1.8 ± 5.4 (22.5)	11.8 (2.4)	20.0	11.5
ODONATA				
Coenagrionidae	0.2 ± 0.6 (2.5)	4.6 (1.0)	10.0	3.5
DIPTERA				
Chironomidae larvae	0.3 ± 0.5 (3.8)	0.1 (<0.1)	30.0	8.7
Chironomidae pupae	0.4 ± 0.8 (5.0)	0.1 (<0.1)	20.0	6.4
Ceratopogonidae	0.2 ± 0.6 (2.5)	0.1 (<0.1)	10.0	3.2
CLADOCERA				
Daphnidae	0.5 ± 1.1 (6.3)	0.3 (<0.1)	20.0	6.8
Chydoridae	0.3 ± 0.7 (3.8)	0.3 (<0.1)	20.0	6.1
AMPHIPODA				
Talitridae	2.5 ± 4.5 (31.3)	5.4 (1.1)	30.0	16.0
OSTEICHTHYES	1.6 ± 4.7 (20.0)	459.8 (95.2)	20.0	34.7

Table E.38. Seasonal (September) feeding habits of 3+ largemouth bass (n=4) in the Pend Oreille River.

	Number MEAN&D.(%)	Weight MEAN (%)	Occurrence %	IRI %
DIPTERA				
Chironomidae pupae	0.3 ± 0.5 (7.7)	0.1 (<0.1)	25.0	10.9
OSTEICHTHYES	0.5 ± 1.0 (15.4)	311.7 (86.1)	25.0	42.2
TERRESTRIALS	2.5 ± 4.4 (76.9)	50.2 (13.9)	50.0	46.9

Table E.39. Annual feeding habits of 3+ largemouth bass (n=16) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
TRICOPTERA				
Leptoceridae	<0.1 (2.0)	<0.1 (<0.1)	3.3	1.5
EPHEMEROPTERA				
Baetidae	1.1 (22.0)	5.3 (1.6)	23.3	12.8
ODONATA				
Coenagrionidae	0.4 (8.0)	2.8 (0.8)	36.7	2.4
Aeshnidae	0.5 (10.0)	46.3 (14.0)	16.7	11.1
DIPTERA				
Chironomidae larvae	0.1 (2.0)	<0.1 (<0.1)	10.0	3.3
Chironomidae pupae	0.2 (4.0)	<0.1 (<0.1)	15.0	5.2
Ceratopogonidae	<0.1 (2.0)	<0.1 (<0.1)	3.3	1.5
CLADOCERA				
Daphnidae	0.2 (4.0)	0.1 (<0.1)	6.7	3.0
Chydoridae	0.1 (2.0)	0.1 (<0.1)	6.7	2.4
AMPHIPODA				
Talitridae	0.8 (16.0)	1.8 (0.5)	10.0	7.2
OSTEICHTHYES	0.7 (14.0)	257.2 (77.8)	15.0	29.2

Table E.40. Seasonal (April) feeding habits of 4+ largemouth bass (n=1) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
DIPTERA				
Chironomidae larvae	1.0 (50.0)	2.4 (2.7)	100	38.2
OSTEICHTHYES	1.0 (50.0)	87.8 (97.3)	100	61.8

Table E.41. Seasonal (July) feeding habits of 4+ largemouth bass (n=6) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
EPHEMEROPTERA				
Baetidae	2.0 ± 3.2 (37.5)	11.1 (2.8)	33.3	20.0
ODONATA				
Coenagrionidae	0.2 ± 0.4 (3.1)	1.8 (0.5)	16.7	5.5
DIPTERA				
Chironomidae larvae	0.3 ± 0.8 (6.3)	0.9 (0.2)	16.7	6.3
CLADOCERA				
Daphnidae	0.2 ± 0.4 (3.1)	0.1 (<0.1)	16.7	5.4
AMPHIPODA: Talitridae	0.5 ± 1.2 (9.4)	0.6 (0.2)	16.7	7.2
OSTEICHTHYES	2.2 ± 2.6 (40.7)	378.3 (96.3)	66.7	55.5

Table E.42. Seasonal (September) feeding habits of 4+ largemouth bass (n=1) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
OSTEICHTHYES	1.0 (100.0)	0.8 (100.0)	100.0	100.0

Table E.43. Annual feeding habits of 4+ largemouth bass (n=7) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
EPHEMEROPTERA				
Baetidae	0.7 (24.1)	3.7 (2.3)	11.1	10.5
ODONATA				
Coenagrionidae	<0.1 (3.4)	0.6 (0.4)	5.6	2.6
DIPTERA				
Chironomidae larvae	0.4 (13.8)	1.1 (0.7)	38.9	15.0
CLADOCERA				
Daphnidae	<0.1 (3.4)	<0.1 (0.7)	5.6	2.7
AMPHIPODA				
Talitridae	0.2 (6.9)	0.2 (0.1)	5.6	3.5
OSTEICHTHYES	1.4 (48.3)	155.6 (96.5)	88.9	65.6

Table E.44. Seasonal (April) feeding habits of 5+ largemouth bass (n=3) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
EPHEMEROPTERA				
Baetidae	1.0 ± 1.7 (8.6)	9.8 (0.2)	33.0	10.5
ODONATA				
Coenagrionidae	0.7 ± 1.2 (5.7)	5.2 (0.1)	33.0	9.7
DIPTERA				
Chironomidae pupae	6.7 ± 11.6 (57.1)	7.5 (0.2)	33.0	22.7
OSTEICHTHYES	1.33 ± 2.3 (11.4)	4014.0 (98.0)	66.6	44.2
OLIGOCHAETA				
Lumbriculidae	2.0 ± 3.5 (17.1)	57.7 (1.4)	33.0	12.9

Table E.45. Seasonal (July) feeding habits of 5+ largemouth bass (n=4) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
COPEPODA				
Calanoid	16.5 ± 33.0 (85.7)	1.5 (0.3)	25.0	34.1
CLADOCERA				
Daphnidae	0.5 ± 1.0 (2.6)	0.1 (0.1)	25.0	8.5
OSTEICHTHYES	2.3 ± 2.1 (11.7)	599.3 (99.8)	75.0	57.3

Table E.46. Seasonal (September) feeding habits of 5+ largemouth bass (n=2) in the Pend Oreille River.

	Number MEAN±D.(%)	Weight MEAN (%)	Occurrence %	IRI %
OSTEICHTHYES	1.5 ± 0.7 (100.0)	2116.4 (100.0)	100.0	100.0

Table E.47. Annual feeding habits of 5+ largemouth bass (n=9) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
EPHEMEROPTERA				
Baetidae	0.3 (1.1)	3.2 (0.1)	11.0	3.6
ODONATA				
Coenagrionidae	0.2 (0.7)	1.7 (<0.1)	11.0	3.5
DIPTERA				
Chironomidae pupae	2.2 (8.1)	2.5 (0.1)	11.0	5.6
COPEPODA				
Calanoida	5.5 (20.1)	0.5 (<0.1)	8.3	8.4
CLADOCERA				
Daphnidae	16.7 (61.1)	<0.1 (<0.1)	8.3	20.4
OSTEICHTHYES	1.7 (6.2)	2243.2 (98.8)	80.5	54.4
OLIGOCHAETA				
Lumbriculidae	0.7 (2.6)	19.2 (0.8)	11.0	4.2

Table E.48. Seasonal (April) feeding habits of 6+ largemouth bass (n=2) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
OSTEICHTHYES	1.0 (100.0)	2213.7 (100)	100	100

Table E.49. Seasonal (July) feeding habits of 6+ largemouth bass (n=2) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
OSTEICHTHYES	2.5 ± 2.1 (100.0)	307.6 (100.0)	100.0	100.0

Table E.50. Seasonal (September) feeding habits of 6+ largemouth bass (n=1) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
OSTEICHTHYES	1 .0 (100.0)	11 .1 (100.0)	100.0	100.0

Table E.51. Annual feeding habits of 6+ largemouth bass (n=5) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN(%)	Occurrence %	IRI %
OSTEICHTHYES	1.5 (100.0)	844.1 (100.0)	100.0	100.0

Table E.52. Seasonal (April) feeding habits of 7+ largemouth bass (n=1) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
OSTEICHTHYES	1 .0 (100.0)	5306.8 (100.0)	100	100

Table E.53. Annual feeding habits of 7+ largemouth bass (n=1) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
OSTEICHTHYES	0.3 (100.0)	1768.9 (100.0)	33.3	100.0

Table E.54. Seasonal (April) feeding habits of 8+ largemouth bass (n=3) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
OSTEICHTHYES	1.0 (100.0)	13435.4 (100.0)	100	100

Table E.55. Annual feeding habits of 8+ largemouth bass (N=3) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
OSTEICHTHYES	0.3 (100.0)	4478.5 (100.0)	33.3	100.0

Table E.56. Seasonal (April) feeding habits of 10+ largemouth bass (n=3) in the Pend Oreille River.

	Number MEAN & D. (%)	Weight MEAN (%)	Occurrence %	IRI %
OSTEICHTHYES	1.0 ± 0.0 (100)	22151.6 (100.0)	100	100

Table E.57. Annual feeding habits of 10+ largemouth bass (N=3) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
OSTEICHTHYES	0.3 (100.0)	738.9 (100.0)	33.03	100.0

Table E.58. Seasonal (April) feeding habits of 11+ largemouth bass (n=1) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
OSTEICHTHYES	1.00 (100.0)	4542.6 (100)	100	100

Table E.59. Seasonal (September) feeding habits of 11+ largemouth bass (n=1) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
OSTEICHTHYES	1.0 (100.0)	11375.1 (100.0)	100.0	100.0

Table E.60. Annual feeding habits of 1 1+ largemouth bass (N=2) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
OSTEICHTHYES	0.7 (100.0)	5305.9 (100.0)	66.7	100.0

Table E.61. Seasonal (April) feeding habits of 14+ largemouth bass (n=1) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
OSTEICHTHYES	1 .0 (100.0)	3783.9 (100.0)	100	100

Table E.62. Annual feeding habits of 14+ largemouth bass (N=1) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
OSTEICHTHYES	0.3 (100.0)	1261.3 (100.0)	33.3	100.0

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Table E.63. Seasonal (July) feeding habits of 0+ mountain whitefish (n=1) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
Ephemeroptera				
Tricorythidae	3.0 (100.0)	0.1 (100.0)	100.0	100.0

Table E.64. Seasonal (September) feeding habits of 0+ mountain whitefish (n=17) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
Trichoptera				
Hydroptilidae	9.5 ± 33.4 (0.9)	33.0 (21.1)	11.8	8.0
Diptera				
Chironomidae larvae	3.3 ± 5.3 (0.3)	0.1 (<0.1)	52.9	12.6
Chironomidae pupae	6.8 ± 7.9 (0.7)	9.3 (5.9)	58.8	15.4
Simuliidae larvae	0.7 ± 2.9 (<0.1)	0.1 (<0.1)	5.9	1.4
Simuliidae pupae	0.2 ± 1.0 (<0.1)	0.1 (<0.1)	5.9	1.4
Cladocera				
Daphnidae	993.5 ± 946.6 (97.9)	114.0 (72.8)	82.4	59.7
Nematoda				
	<0.1 ± 0.2 (<0.1)	0.1 (<0.1)	5.9	1.4

Table E.65. Annual feeding habits of 0+ mountain whitefish (n=18) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
Trichoptera				
Hydroptilidae	3.2 (0.9)	11.0 (20.9)	3.9	8.3
Ephemeroptera				
Tricorythidae	1.0 (0.3)	<0.1 (0.2)	33.3	11.0
Diptera				
Chironomidae larvae	1.1 (0.3)	<0.1 (0.2)	17.6	5.9
Chironomidae pupae	2.3 (0.7)	3.1 (5.9)	19.6	8.5
Simuliidae larvae	0.2 (<0.1)	<0.1 (0.2)	2.0	0.7
Simuliidae pupae	<0.1 (<0.1)	<0.1 (0.2)	2.0	0.7
Cladocera				
Daphnidae	331.2 (97.6)	38.0 (72.2)	27.5	64.1
Nematoda				
	<0.1 (<0.1)	<0.1 (0.2)	2.0	0.7

Table E.66. Seasonal (April) feeding habits of 1+ mountain whitefish (n=8) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
TRICHOPTERA				
Hydroptilidae	7.5 ± 14.7 (3.7)	6.1 (2.4)	25.0	4.6
Polycentropidae	0.13 ± 0.4 (<0.1)	1.6 (0.6)	12.5	2.0
Phryganeidae	0.13 ± 0.4	2.5 (1.0)	12.5	2.0
Brachycentridae	0.13 ± 0.4 (<0.1)	1.6 (0.6)	12.5	2.0
EPHEMEROPTERA				
Baetidae	2.63 ± 3.5 (1.3)	13.9 (5.4)	50.0	8.4
PLECOPTERA				
Nemouridae	0.3 ± 0.5 (0.1)	1.0 (0.4)	25.0	3.8
ODONATA				
Coenagrionidae	0.6 ± 1.8 (0.3)	7.3 (2.8)	12.5	2.3
DIPTERA				
Chironomidae larvae	119.1 ± 70.5 (58.9)	182.5 (70.4)	100	34.0
Chironomidae pupae	62.0 ± 122.8 (30.7)	0.1 (<0.1)	100	19.4
Simuliidae	8.7 ± 15.2 (4.3)	38.0 (14.7)	87.5	15.8
CLADOCERA				
Chydoridae	0.3 ± 0.7 (0.1)	1.6 (0.6)	12.5	2.0
AMPHIPODA				
Talitridae	0.5 ± 1.4 (0.3)	0.4 (0.2)	12.5	1.9
TERRESTRIALS				
Simuliidae adult	0.3 ± 0.7 (0.1)	2.6 (0.1)	12.5	2.0

Table E.67. Seasonal (July) feeding habits of 1+ mountain whitefish (n=1) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
TRICHOPTERA				
Hydroptilidae	16.0 (3.9)	0.1 (0.4)	100.0	13.0
EPHEMEROPTERA				
Ephemerellidae	1.0 (0.2)	0.1 (0.4)	100.0	12.6
HYDRACARINA	1.0 (0.2)	0.1 (0.4)	100.0	12.6
DIPTERA				
Chironomidae larvae	314.0 (75.7)	20.2 (72.9)	100.0	31.1
Chironomidae pupae	64.0 (15.4)	5.0 (18.1)	100.0	16.7
Simuliidae	19.0 (4.6)	2.2 (7.9)	100.0	14.1

Table E.68. Seasonal (September) feeding habits of 1+ mountain whitefish (n=3) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
DIPTERA				
Chironomidae larvae	0.7 ± 1.1 (<0.1)	0.1 (0.3)	33.3	7.2
Chironomidae pupae	3.7 ± 3.1 (0.3)	0.1 (0.3)	100.0	21.6
CLADOCERA				
Daphnidae	1327.3 ± 2092.9 (99.3)	26.0 (81.8)	66.6	53.1
AMPHIPODA				
Talitridae	4.0 ± 6.9 (0.3)	0.2 (0.6)	33.3	7.3
GASTROPODA				
Lymnaeidae	1.7 ± 2.9 (0.1)	5.4 (17.0)	33.3	10.8

Table E.69. Annual feeding habits of 1+ mountain whitefish (n=12) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
TRICHOPTERA				
Hydroptilidae	7.8 (1.2)	2.1 (2.0)	41.7	6.9
Polycentropodidae	<0.1 (0.1)	0.5 (0.5)	4.2	0.7
Phryganeidae	<0.1 (<0.1)	0.8 (0.8)	4.2	0.8
Brachycentridae	<0.1 (<0.1)	0.5 (0.5)	4.2	0.7
EPEMEROPTERA				
Baetidae	0.9 (0.1)	4.6 (4.4)	16.7	3.3
Ephemerellidae	0.3 (<0.1)	<0.1 (<0.1)	33.3	5.2
Nemouridae	0.1 (<0.1)	0.3 (0.3)	8.3	1.3
ODONATA				
Coenagrionidae	0.2 (<0.1)	2.4 (2.3)	4.2	1.0
HYDRACARINA	0.3 (<0.1)	<0.1 (<0.1)	33.3	5.2
DIPTERA				
Chironomidae larvae	144.6 (22.2)	67.6 (64.1)	77.8	25.3
Chironimidae pupae	43.2 (6.6)	1.7 (1.6)	100.0	16.7
Simuliidae	9.2 (1.4)	13.4 (12.7)	62.5	11.8
CLADOCERA				
Daphnidae	442.4 (67.9)	8.7 (8.3)	22.2	15.2
Chydoridae	0.1 (<0.1)	0.5 (0.5)	4.2	0.7
AMPHIPODA				
Talitridae	1.5 (0.2)	0.2 (0.2)	15.3	2.4
GASTROPODA				
Lymnaeidae	0.6 (<0.1)	1.8 (1.7)	11.1	2.0
TERRESTRIALS				
Simuliidae adult	0.1 (<0.1)	0.9 (0.8)	4.2	0.8

Table E.70. Seasonal (April) feeding habits of 2+ mountain whitefish (n=7) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
TRICHOPTERA				
Hydroptilidae	0.6 ± 1.1 (0.2)	1.6 (0.3)	28.6	4.5
Polycentropidae	0.1 ± 0.4 (<0.1)	2.9 (0.5)	14.3	2.3
Leptoceridae	0.6 ± 1.5 (0.2)	6.1 (1.0)	14.3	2.4
Ephemeroptera				
Baetidae	1.1 ± 2.6 (0.3)	9.8 (1.7)	28.6	4.8
Plecoptera				
Perlodidae	0.1 ± 0.4 (<0.1)	0.6 (0.1)	14.3	2.3
Odonata				
Coenagrionidae	1.3 ± 3.0 (0.4)	10.8 (1.8)	25.0	4.3
Diptera				
Chironomidae larvae	116.3 ± 126.8 (31.4)	301.7 (50.7)	85.7	26.2
Chironomidae pupae	236.7 ± 159.0 (64.0)	209.4 (35.2)	100	31.1
Simuliidae	12.4 ± 29.8 (3.4)	47.3 (8.0)	71.4	12.9
Amphipoda				
Talitridae	0.1 ± 0.4 (<0.1)	1.0 (0.2)	14.3	2.3
Gastropoda				
Planorbidae	0.3 ± 0.5 (<0.1)	2.0 (0.3)	28.6	4.5
Terrestrials				
Simuliidae adult	0.1 ± 0.4 (<0.1)	2.1 (0.4)	14.3	2.3

Table E.71. Seasonal (September) feeding habits of 2+ mountain whitefish (n=1) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
TRICHOPTERA				
Hydroptilidae	1.0 (1.5)	0.1 (1.6)	100.0	20.6
DIPTERA				
Chironomidae larvae	8.0 (12.3)	0.1 (1.6)	100.0	22.8
AMPHIPODA				
Talitridae	56.0 (86.2)	6.2 (96.9)	100.0	56.6

Table E.72. Annual feeding habits of 2+ mountain whitefish (n=8) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
TRICHOPTERA				
Hydroptilidae	0.5 (0.3)	0.6 (0.3)	42.9	9.7
Polycentropodidae	<0.1 (<0.1)	1.0 (0.5)	4.8	1.2
Leptoceridae	0.2 (0.1)	2.0 (1.0)	4.8	1.3
Ephemeroptera				
Baetidae	0.4 (0.3)	3.3 (1.6)	9.5	2.6
Plecoptera				
Perlodidae	<0.1 (<0.1)	0.2 (<0.1)	4.8	1.1
Odonata				
Coenagrionidae	0.4 (0.3)	3.6 (1.8)	8.3	2.3
Diptera				
Chironomidae larvae	41.4 (28.6)	<100.6 (50.1)	61.9	31.5
Chironomidae pupae	78.9 (54.4)	69.8 (34.8)	33.3	27.4
Simuliidae	4.1 (2.8)	15.8 (7.9)	23.8	7.7
Amphipoda				
Talitridae	18.7 (12.9)	2.4 (1.2)	38.1	11.7
Gastropoda				
Planorbidae	0.1 (<0.1)	0.7 (0.3)	9.5	2.2
Terrestrials				
Simuliidae adult	<0.1 (<0.1)	0.7 (0.3)	4.8	1.2

Table E.73. Seasonal (April) feeding habits of 3+ mountain whitefish (n=17) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
TRICHOPTERA				
Hydroptilidae	1.7 ± 5.5 (0.4)	9.0 (0.4)	35.3	4.9
Limnephilidae	0.8 ± 2.7 (0.2)	89.4 (3.7)	17.7	2.9
Leptoceridae	0.7 ± 1.8 (0.2)	10.7 (0.4)	17.7	2.5
Phryganeidae				
Brachycentridae	0.1 ± 0.2 (<0.1)	2.5 (0.1)	5.9	0.9
EPHEMEROPTERA				
Baetidae	0.7 ± 1.6 (0.2)	8.4 (0.4)	17.7	2.5
ODONATA				
Coenagrionidae	1.9 ± 5.5 (0.5)	40.9 (1.7)	17.7	2.7
HYDRACARINA	0.9 ± 1.1 (0.2)	2.8 (0.1)	50.0	6.8
DIPTERA				
Chironomidae larvae	213.8 ± 300.3 (52.1)	1164.5 (47.9)	94.4	26.3
Chironomidae pupae	86.1 ± 113.1 (21.0)	204.5 (8.4)	88.9	16.0
Chaoribidae	0.7 ± 2.0 (0.2)	0.1 (<0.1)	16.7	2.3
Simuliidae larvae	82.1 ± 138.0 (20.0)	734.7 (30.2)	55.6	14.3
Simuliidae pupae	15.1 ± 44.3 (3.7)	140.5 (5.8)	33.3	5.8
AMPHIPODA				
Talitridae	3.9 ± 7.7 (1.0)	6.5 (0.3)	50.0	6.9
GASTROPODA				
Planorbidae	0.1 ± 0.3 (<0.1)	4.3 (0.2)	11.1	1.5
TERRESTRIALS				
Simuliidae adult	0.2 ± 1.0 (<0.1)	2.2 (<0.1)	5.6	0.8
Baetidae adult	0.2 ± 1.0 (<0.1)	2.2 (<0.1)	5.6	0.8

Table E.74. Seasonal (July) feeding habits of 3+ mountain whitefish (n=1) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
TRICHOPTERA				
Brachycentridae	2.0 (66.7)	0.6 (85.7)	100.0	63.1
DIPTERA				
Chironomidae larvae	1.0 (33.3)	0.1 (14.3)	100.0	36.9

Table E.75. Annual feeding habits of 3+ mountain whitefish (n=18) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
TRICHOPTERA				
Hydroptilidae	0.6 (0.4)	3.0 (0.4)	11.8	2.8
Limnephilidae	0.3 (0.2)	29.8 (3.7)	5.9	2.2
Leptoceridae	0.2 (0.1)	3.6 (0.4)	5.9	1.4
Brachycentridae	0.7 (0.5)	1.0 (0.1)	35.3	8.0
EPHEMEROPTERA				
Baetidae	0.2 (0.1)	2.8 (0.3)	5.9	1.4
ODONATA				
Coenagrionidae	0.6 (0.4)	13.6 (1.7)	5.9	1.8
HYDRACARINA	0.3 (0.2)	0.9 (0.1)	16.7	3.8
DIPTERA				
Chironomidae larvae	71.6 (51.9)	388.2 (47.9)	64.8	36.9
Chironimidae pupae	28.7 (20.8)	68.2 (8.4)	29.6	13.2
Chaoboridae	0.2 (0.1)	<0.1 (<0.1)	5.6	1.3
Simuliidae larvae	27.4 (19.9)	244.9 (30.2)	18.5	15.4
Simuliidae pupae	5.0 (3.6)	46.8 (5.8)	11.1	4.6
AMPHIPODA				
Talitridae	1.3 (0.9)	2.2 (0.3)	16.7	4.0
GASTROPODA				
Planorbidae	<0.1 (<0.1)	1.4 (0.2)	3.7	0.9
TERRESTRIALS				
Baetidae adult	<0.1 (<0.1)	0.7 (<0.1)	1.9	0.5
Simuliidae adult	0.6 (0.4)	3.3 (0.4)	74	1.8

Table E.76. Seasonal (April) feeding habits of 4+ mountain whitefish (n=32) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
TRICHOPTERA				
Hydroptilidae	3.8 ± 15.0 (0.6)	8.9 (0.4)	31.2	3.8
Limnephilidae	10.9 ± 55.2 (1.7)	469.8 (5/2)	21.9	3.4
Lepidostomatidae	2.1 ± 12.0 (0.3)	106.1 (1.2)	2.9	0.5
Leptoceridae	0.7 ± 2.5 (0.1)	62.0 (0.7)	18.8	2.3
Phryganeidae	0.3 ± 1.0 (<0.1)	89.0 (1.0)	8.8	1.2
Hydropsychidae	0.4 ± 2.5 (<0.1)	192.4 (2.1)	2.9	0.6
Brachycentridae	1.2 ± 3.9 (0.2)	159.0 (1.8)	18.8	2.5
Rhyacophilidae	<0.1 ± 0.5 (<0.1)	23.7 (0.3)	2.9	0.4
Polycentropidae	0.8 ± 3.5 (0.1)	10.0 (0.1)	14.7	1.8
Ephemeroptera				
Baetidae	1.1 ± 2.9 (0.2)	28.0 (0.3)	29.4	3.6
Leptophlebiidae	0.1 ± 0.7 (<0.1)	5.9 (<0.1)	2.9	0.4
Ephemerellidae	1.2 ± 5.3 (0.2)	107.6 (1.2)	8.8	1.2
Heptageniidae	0.5 ± 3.0 (<0.1)	22.2 (0.3)	2.9	0.4
ODONATA				
Coenagrionidae	9.6 ± 24.2 (1.5)	409.6 (4.6)	50.0	6.7
PLECOPTERA				
Chloroperlidae	1.5 ± 7.8 (0.2)	58.4 (0.7)	8.8	1.2
COLEOPTERA				
Elmidae larvae	<0.1 ± 0.2 (<0.1)	4.4 (<0.1)	2.9	0.4
HYDRACARINA	1.1 ± 1.6 (0.2)	5.0 (<0.1)	47.1	5.6
DIPTERA				
Chironomidae larvae	453.6 ± 464/0 (71.3)	5555.8 (61.9)	94.1	27.1
Chironomidae pupae	49.9 ± 100.4 (7.9)	219.6 (2.5)	85.3	11.4
Tipulidae	0.1 ± 0.4 (<0.1)	0.1 (<0.1)	5.9	0.7
Ceratopogonidae	0.4 ± 1.6 (<0.1)	0.3 (<0.1)	11.8	1.4
Chaoribidae	1.3 ± 3.8 (0.2)	7.0 (<0.1)	17.7	2.1
Simuliidae larvae	45.0 ± 118.2 (7.1)	643.5 (7.2)	35.3	5.9
Simuliidae pupae	25.4 ± 85.7 (4.0)	427.0 (4.8)	20.6	3.5
Empididae	<0.1 ± 0.2 (<0.1)	1.6 (<0.1)	2.9	0.4
CLADOCERA				
Chydoridae	<0.1 ± 0.2 (<0.1)	<0.1 (<0.1)	2.9	0.4
AMPHIPODA				
Talitridae	11.0 ± 24.2 (1.7)	42/7 (0.5)	52.9	6.6
OSTRACODA	0.4 ± 1.9 (<0.1)	0.1 (<0.1)	5.9	0.7
GASTROPODA				
Planorbidae	0.5 ± 1.4 (<0.1)	5.9 (<0.1)	11.8	1.4
OLIGOCHAETA				
Lumbriculidae	0.1 ± 0.7 (<0.1)	96.1 (1.1)	2.9	0.5
TERRESTRIALS	<0.1 ± 0.2 (<0.1)	3.4 (<0.1)	2.9	0.4
Simuliidae adult	12.5 ± 46.8 (2.0)	18.0 (2.0)	8.8	1.5

Table E.77. Seasonal (September) feeding habits of 4+ mountain whitefish (n=2) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
TRICHOPTERA				
Hydroptilidae	22.5 ± 96.2 (89.6)	131.7 (98.1)	100.0	47.9
Ephemeroptera				
Baetidae	0.5 ± 0.7 (0.2)	0.1 (<0.1)	50.0	8.4
DIPTERA				
Chironomidae larvae	22.0 ± 11.3 (8.8)	2.3 (1.7)	100.0	18.4
Chironomidae pupae	2.5 ± 3.5 (1.0)	0.1 (<0.1)	50.0	8.5
AMPHIPODA				
Talitridae	1.0 ± 0.0 (0.4)	0.1 (<0.1)	100.0	16.7

Table E.78. Annual feeding habits of 4+ mountain whitefish (n=34) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
TRICOPTERA				
Polycentropodidae	0.3 (0.1)	3.3 (0.1)	4.9	0.9
Hydroptilidae	8.8 (3.8)	46.9 (1.6)	43.7	8.4
Limnephilidae	3.6 (1.6)	156.6 (5.3)	7.3	2.4
Lepidostomatidae	0.7 (0.3)	35.4 (1.2)	0.9	0.4
Leptoceridae	0.2 (<0.1)	20.7 (0.7)	6.3	1.2
Phyrganeidae	0.1 (<0.1)	29.7 (1.0)	2.9	0.7
Hydropsychidae	0.1 (<0.1)	64.1 (2.2)	0.9	0.5
Brachycentridae	0.4 (0.2)	53.0 (1.8)	6.3	1.4
Rhyacophilidae	<0.1 (<0.1)	7.9 (0.3)	0.9	0.2
EPHEMEROPTERA				
Baetidae	0.5 (0.2)	9.4 (0.3)	26.5	4.6
Ephemerellidae	0.4 (0.2)	35.9 (1.2)	2.9	0.7
Heptagenidae	0.2 (<0.1)	7.4 (0.2)	0.9	0.2
Leptophlebiidae	<0.1 (<0.1)	2.0 (<0.1)	0.9	1.7
ODONATA				
Coenagrionidae	3.2 (1.4)	136.5 (4.6)	16.7	3.9
PLECOPTERA				
Chloroperlidae	0.5 (0.2)	19.5 (0.7)	2.9	0.7
COLEOPTERA				
Elmidae larvae	<0.1 (<0.1)	1.5 (<0.1)	0.9	1.7
HYDRACARINA	0.4 (0.2)	1.7 (<0.1)	15.7	2.7
DIPTERA				
Chironomidae larvae	158.5 (69.3)	1852.7 (62.3)	64.7	33.7
Chironomidae pupae	17.5 (7.7)	73.2 (2.5)	45.1	9.5
Ceratopogonidae	0.1 (<0.1)	0.1 (<0.1)	3.9	0.7
Chaoboridae	0.4 (0.2)	2.3 (<0.1)	5.9	1.1
Empididae	<0.1 (<0.1)	0.5 (<0.1)	0.9	1.7
Simuliidae larvae	15.0 (6.6)	214.5 (7.2)	11.8	4.4
Simuliidae pupae	8.5 (3.7)	142.3 (4.8)	6.9	2.6
Tipulidae	<0.1 (<0.1)	<0.1 (<0.1)	2.0	0.4
CLADOCERA				
Chydoridae	<0.1 (<0.1)	<0.1 (<0.1)	0.9	1.7
AMPHIPODA				
Talitridae	4.0 (1.7)	14.3 (0.5)	51.0	9.1
OSTRACODA	0.1 (<0.1)	<0.1 (<0.1)	2.0	0.4
GASTROPODA				
Planorbidae	0.2 (<0.1)	2.0 (<0.1)	3.9	0.7
OLIGOCHAETA				
Lumbriculidae	<0.1 (<0.1)	32.0 (1.1)	0.9	0.4
TERRESTRIALS	<0.1 (<0.1)	1.1 (<0.1)	0.9	0.2
Simuliidae adult	4.2 (1.8)	6.0 (0.2)	2.9	0.8

Table E.79. Seasonal (April) feeding habits of 5+ mountain whitefish (n=10) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
TRICHOPTERA				
Hydroptilidae	3.4 ± 8.7 (0.5)	8.9 (0.4)	50.0	6.1
Limnephilidae	1.4 ± 2.9 (0.2)	53.5 (2.3)	30.0	3.9
Leptoceridae	0.8 ± 2.5 (0.1)	4.9 (0.2)	10.0	1.2
Brachycentridae	1.1 ± 3.1 (0.2)	0.9 (<0.1)	20.0	2.4
EPHEMEROPTERA				
Baetidae	0.1 ± 0.3 (<0.01)	1.1 (<0.1)	10.0	1.2
PLECOPTERA				
Nemouridae	0.4 ± 1.3 (<0.01)	2.2 (<0.1)	10.0	1.2
ODONATA				
Coenagrionidae	24.6 ± 41.3 (3.6)	254.2 (10.9)	50.0	7.8
COLEOPTERA				
Elmidae larvae	1.8 ± 5.7 (0.3)	7.3 (0.3)	10.0	1.3
HYDRACARINA	0.3 ± 0.5 (<0.01)	0.3 (<0.1)	30.0	3.6
DIPTERA				
Chironomidae larvae	440.0 ± 572.1 (63.7)	1468.5 (63.1)	90.0	26.1
Chironomidae pupae	111.3 ± 144.6 (16.1)	93.2 (4.0)	100	14.4
Ceratopogonidae	0.1 ± 0.03 (<0.1)	1.1 (<0.1)	10.0	1.2
Simuliidae larvae	82.5 ± 178.8 (11.9)	385.6 (16.6)	40.0	8.2
Simuliidae pupae	6.9 ± 18.2 (1.0)	0.1 (<0.1)	30.0	3.7
AMPHIPODA				
Talitridae	6.8 ± 10.7 (1.0)	9.9 (0.4)	70.0	8.6
GASTROPODA				
Planorbidae	0.3 ± 0.5 (<0.1)	1.4 (<0.1)	30.0	3.6
Lymnaeidae	0.1 ± 0.3 (<0.1)	0.1 (<0.1)	10.0	1.2
TERRESTRIALS				
Simuliidae adult	9.1 ± 26.4 (1.3)	34.0 (1.5)	30.0	3.9

Table E.80. Annual feeding habits of 5+ mountain whitefish (n=10) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
TRICHOPTERA				
Hydroptilidae	1.1 (0.5)	2.9 (0.4)	16.7	4.3
Limnephilidae	0.5 (0.2)	17.8 (2.3)	10.0	3.0
Leptoceridae	0.3 (0.1)	1.6 (0.2)	3.3	0.9
Brachycentridae	0.4 (0.2)	0.3 (<0.1)	6.7	1.7
EPHEMEROPTERA				
Baetidae	<0.1 (<0.1)	0.4 (<0.1)	3.3	0.9
Nemouridae	0.1 (0.1)	0.7 (<0.1)	3.3	0.9
ODONATA				
Coenagrionidae	8.2 (3.6)	84.7 (10.9)	16.7	7.6
COLEOPTERA				
Elmidae larvae	0.6 (0.3)	2.4 (0.3)	3.3	0.9
HYDRACARINA	0.1 (<0.1)	0.1 (<0.1)	10.0	2.5
DIPTERA				
Chironomidae larvae	146.7 (63.6)	489.5 (63.1)	30.0	38.2
Chironimidae pupae	37.1 (16.1)	31.1 (4.0)	33.3	13.0
Ceratopogonidae	<0.1 (<0.1)	0.4 (<0.1)	3.3	0.9
Simuliidae larvae	27.5 (11.9)	128.5 (16.6)	13.3	10.2
Simuliidae pupae	2.3 (1.0)	<0.1 (<0.1)	10.0	2.7
AMPHIPODA				
Talitridae	2.3 (1.0)	3.3 (0.4)	23.3	6.0
GASTROPODA				
Planorbidae	0.1 (<0.1)	0.5 (<0.1)	10.0	2.5
Lymnaeidae	<0.1 (<0.1)	<0.1 (<0.1)	3.3	0.9
TERRESTRIALS				
Simuliidae adult	3.0 (1.3)	11.3 (1.5)	10.0	3.1

**SEASONAL FEEDING HABITS OF
BLACK CRAPPIE**

Table E.81. Seasonal (September) feeding habits of 0+ black crappie (n=12) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
DIPTERA				
Chironomidae larvae	1.3 ± 2.0 (2.0)	0.1 (11.1)	58.3	18.2
Chironomidae pupae	0.2 ± 0.4 (0.2)	0.1 (11.1)	16.7	7.1
COPEPODA				
Cyclopoida	0.3 ± 0.6 (0.4)	0.1 (11.1)	16.7	7.2
Calanoida	12.4 ± 40.0 (18.2)	0.1 (11.1)	16.7	11.7
CLADOCERA				
Daphnidae	52.7 ± 182.1 (77.3)	0.1 (11.1)	16.7	26.8
Chydoridae	0.8 ± 1.2 (1.2)	0.1 (11.1)	41.7	13.8
AMPHIPODA				
Talitridae	<0.1 ± 0.3 (<0.1)	0.1 (11.1)	8.3	
OSTRACODA	0.3 ± 0.9 (0.4)	0.1 (11.1)	8.3	5.14
OSTEICHTHYES	0.2 ± 0.6 (0.2)	0.1 (11.1)	8.3	5.0

Table E.82. Annual feeding habits of 0+ black crappie (n=12) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
DIPTERA				
Chironomidae larvae	0.4 (1.7)	<0.1 (11.1)	19.4	12.2
Chironimidae pupae	<0.1 (0.4)	<0.1 (11.1)	5.6	6.5
COPEPODA				
Cyclopoida	0.1 (0.4)	<0.1 (11.1)	5.6	6.5
Calanoida	4.1 (17.9)	<0.1 (11.1)	5.6	13.1
CLADOCERA				
Daphnidae	17.6 (76.9)	<0.1 (11.1)	5.6	35.5
Chydoridae	0.3 (1.3)	<0.1 (11.1)	13.9	10.0
AMPHIPODA				
Talitridae	<0.1 (0.4)	0.1 (11.1)	2.8	5.4
OSTRACODA	0.1 (0.4)	<0.1 (11.1)	2.8	5.4
OSTEICHTHYES	<0.1 (0.4)	<0.1 (11.1)	2.8	5.4

Table E.83. Seasonal (July) feeding habits of 1+ black crappie (n=2) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
DIPTERA				
Chironomidae larvae	0.5 ± 0.7 (<0.1)	1.0 (4.7)	50.0	13.7
CLADOCERA				
Daphnidae	2745.5 ± 3882.7 (99.7)	18.3 (86.7)	50.0	59.1
Chydoridae	8.5 ± 12.0 (0.3)	0.1 (0.5)	50.0	12.7
OSTRACODA	0.5 ± 0.7 (<0.1)	1.7 (8.1)	50.0	14.5

Table E.84. Seasonal (September) feeding habits of 1+ black crappie (n=4) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
EPHEMEROPTERA				
Tricorythidae	1.0± 2.0 (0.1)	0.1 (14.3)	25.0	7.50
DIPTERA				
Chironomidae larvae	1.0 ± 2.0 (0.1)	0.1 (14.3)	25.0	7.5
Chironomidae pupae	0.3 ± 0.5 (<0.1)	0.1 (14.3)	25.0	7.5
COPEPODA				
Cyclopoida	4.0 ± 3.6 (0.6)	0.1 (14.3)	75.0	17.2
Calanoida	30.9 ± 61.0 (44.6)	0.1 (14.3)	75.0	25.5
CLADOCERA				
Daphnidae	377.5 ± 569.0 (54.5)	0.1 (14.3)	75.0	27.4
AMPHIPODA				
Talitridae	0.3 ± 0.5 (<0.1)	0.1 (14.3)	25.0	7.5

Table E.85. Annual feeding habits of 1+ black crappie (n=6) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
EPHEMEROPTERA				
Tricorythidae	0.3 (<0.1)	<0.1 (1.2)	8.3	2.6
DIPTERA				
Chironomidae larvae	0.5 (<0.1)	0.4 (5.2)	25.0	8.1
Chironimidae pupae	0.1 (<0.1)	<0.1 (1.2)	8.3	2.6
COPEPODA				
Cyclopoida	1.3 (0.1)	<0.1 (1.2)	25.0	7.0
Calanoida	10.3 (1.0)	<0.1 (1.2)	25.0	7.3
CLADOCERA				
Daphnidae	1041 .0 (98.5)	6.1 (79.2)	41.7	58.5
Chydoridae	2.8 (0.3)	<0.1 (1.2)	16.6	4.9
AMPHIPODA				
Talitridae	0.1 (<0.1)	(0.1 (1.2)	8.3	2.6
OSTRACODA	0.2 (<0.1)	0.6 (7.8)	16.7	6.6

Table E.86. Seasonal (April) feeding habits of 2+ black crappie (n=1) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence	IRI
Ephemeroptera				
Leptophlebiidae	18.0 (1.5)	0.3 (1.9)	100	6.9
Tricorythidae	3.0 (0.3)	0.4 (2.5)	100	6.0
ODONATA				
Cenagrionidae	2.0 (0.2)	0.1 (0.6)	100	6.7
HYDRACARINA	1.0 (<0.1)	0.5 (3.2)	100	6.9
LEPIDOPTERA				
DIPTERA				
Chironomidae larvae	23.0 (1.9)	2.4 (15.2)	100	7.8
Chironomidae pupae	1.0 (<0.10)	0.1 (0.6)	100	6.7
Ceratopogonidae	0.2 (0.2)	0.1 (0.6)	100	6.7
Chaoboridae	11.0 (0.9)	3.0 (19.0)	100	8.0
COPEPODA				
Cyclopoida	150.0 (12.7)	0.8 (5.1)	100	7.9
CLADOCERA				
Daphnidae	699.0 (59.1)	3.9 (24.7)	100	12.3
AMPHIPODA				
Talitridae	1.0 (<0.1)	0.7 (4.4)	100	7.0
OSTRACODA	270.0 (22.8)	2.3 (14.6)	100	9.2
TERRESTRIALS	1.0 (<0.1)	1.2 (7.6)	100	7.2

Table E.87. Seasonal (July) feeding habits of 2+ black crappie (n=5) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
DIPTERA				
Chironomidae larvae	0.4 ± 0.6 (<0.1)	1.7 (2.8)	40.0	7.7
Chironomidae pupae	0.6 ± 0.6 (<0.1)	1.7 (2.8)	60.0	11.2
COPEPODA				
Cyclopoida	4.6 ± 9.2 (1.1)	0.3 (0.5)	60.0	11.0
CLADOCERA				
Daphnidae	430.4 ± 885.4 (98.4)	26.7 (43.8)	80.0	39.7
Chydoridae	0.6 ± 0.6 (0.1)	0.1 (0.2)	60.0	10.8
AMPHIPODA				
Talitridae	0.4 ± 0.6 (0.1)	0.8 (1.3)	40.0	7.4
OSTEICHTHYES	0.2 ± 0.4 (<0.1)	29.6 (48.6)	20.0	12.3

Table E.88. Annual feeding habits of 2+ black crappie (n=6) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
EPHEMEROPTERA				
Leptophlebiidae	6.0 (1.1)	0.1 (0.4)	33.3	4.6
Tricorythidae	1.0 (0.2)	0.1 (0.4)	33.3	4.5
ODONATA				
Coenagrionidae	0.7 (0.1)	<0.1 (0.4)	33.3	4.5
HYDRACARINA	0.3 (<0.1)	0.2 (0.8)	33.3	4.5
DIPTERA				
Chironomidae larvae	7.8 (1.4)	1.4 (5.4)	146.7	7.1
Chironimidae pupae	0.5 (<0.1)	0.6 (2.3)	53.3	7.4
Ceratopogonidae	<0.1 (<0.1)	<0.1 (0.4)	33.3	4.5
Chaoboridae	3.7 (0.7)	1.0 (3.9)	33.3	5.0
COPEPODA				
Cyclopoida	51.5 (9.6)	0.4 (1.5)	53.3	8.5
CLADOCERA				
Daphnidae	376.5 (69.8)	10.2 (39.4)	60.0	22.4
Chydoridae	0.2 (<0.1)	<0.1 (0.4)	20.0	2.7
AMPHIPODA				
Talitridae	0.5 (<0.1)	0.5 (1.9)	46.7	6.5
OSTRACODA	90.0 (16.7)	<0.8 (3.1)	33.3	7.0
OSTEICHTHYES	<0.1 (<0.1)	9.9 (36.2)	6.7	6.0
TERRESTRIALS	0.3 (<0.1)	0.4 (1.5)	33.3	4.6

Table E.89. Seasonal (July) feeding habits of 3+ black crappie (n=1) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
DIPTERA				
Chironomidae larvae	1.0 (<0.1)	1.5 (3.3)	100.0	17.2
COPEPODA				
Cyclopoida	1.0 (<0.1)	0.1 (0.2)	100.0	16.7
CLADOCERA				
Daphnidae	2552.0 (99.1)	43.6 (96.0)	100.0	49.2
Chydoridae	21.0 (0.8)	0.1 (0.2)	100.0	16.8

Table E.90. Seasonal (September) feeding habits of 3+ black crappie (n=1) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
DIPTERA				
Chironomidae larvae	2.0 (0.3)	0.1 (20.0)	100.0	15.0
Chironomidae pupae	2.0 (0.3)	0.1 (20.0)	100.0	15.0
COPEPODA				
Cyclopoida	3.0 (0.4)	0.1 (20.0)	100.0	15.0
Calanoida	289.0 (55.3)	0.1 (20.0)	100.0	34.4
CLADOCERA				
Daphnidae	308.0 (43.8)	0.1 (20.0)	100.0	20.5

Table E.91. Annual feeding habits of 3+ black crappie (n=2) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
DIPTERA				
Chironomidae larvae	1.0 (<0.1)	<0.5 (3.2)	66.7	14.0
Chironimidae pupae	0.7 (<0.1)	<0.1 (0.6)	33.3	6.8
COPEPODA				
Cyclopoida	1.3 (0.1)	<0.1 (0.6)	66.7	13.5
Calanoida	629.7 (11.9)	<0.1 (0.6)	33.3	9.2
CLADOCERA				
Daphnidae	953.3 (87.2)	14.6 (94.2)	66.7	49.6
Chydoridae	7.0 (0.6)	<0.1 (0.6)	33.3	6.9

Table E.92. Seasonal (July) feeding habits of 4+ black crappie (n=1) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
EPHEMEROPTERA				
Tricorythidae	1.0 (<0.1)	0.1 (0.1)	100.0	16.7
DIPTERA				
Ceratopogonidae	1.0 (<0.1)	0.1 (0.1)	100.0	16.7
COPEPODA				
Cyclopoida	95.0 (2.9)	28.0 (40.2)	100.0	23.8
CLADOCERA				
Daphnidae	3241.0 (97.1)	41.4 (59.5)	100.0	42.7

Table E.93. Seasonal (September) feeding habits of 4+ black crappie (n=2) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
Ephemeroptera				
Baetidae	7.5 ± 7.5 (0.2)	0.1 (0.2)	50.0	7.2
Tricorythidae	3.0 ± 3.0 (<0.1)	2.0 (3.9)	50.0	7.7
Odonata				
Coenagrionidae	0.5 ± 0.5 (<0.1)	0.1 (0.2)	50.0	7.2
Diptera				
Chironomidae pupae	3.0 ± 3.0 (<0.1)	0.1 (0.2)	100.0	14.3
Copepoda				
Cyclopoida	1.0 ± 1.0 (<0.1)	0.1 (0.2)	50.0	7.2
Cladocera				
Daphnidae	395.3 ± 395.3 (99.1)	45.4 (87.8)	50.0	33.8
Amphipoda				
Talitridae	22.5 ± 22.5 (0.6)	3.8 (7.4)	100.0	15.4
Ostracoda	0.5 ± 0.5 (<0.1)	0.1 (0.2)	50.0	7.2

Table E.94. Annual feeding habits of 4+ black crappie (n=3) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
Ephemeroptera				
Baetidae	2.5 (0.2)	<0.1 (0.2)	16.7	3.4
Tricorythidae	1.3 (0.1)	0.7 (1.7)	50.0	10.4
Odonata				
Coenagrionidae	0.2 (<0.1)	<0.1 (0.2)	16.7	3.4
Diptera				
Chironimidae pupae	1.0 (<0.1)	<0.1 (0.2)	33.3	6.7
Ceratopogonidae	0.3 (<0.1)	<0.1 (0.2)	33.3	6.7
Copepoda				
Cyclopoida	32.0 (2.5)	9.4 (23.0)	50.0	15.1
Cladocera				
Daphnidae	1212.1 (96.4)	28.9 (70.8)	50.0	43.4
Amphipoda				
Talitridae	7.5 (0.6)	1.3 (3.2)	33.3	7.4
Ostracoda	0.2 (<0.1)	<0.1 (0.2)	16.7	3.4

Table E.95. Seasonal (April) feeding habits of 5+ black crappie (n=1) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
ODONATA				
Coenagrionidae	2.0 (0.8)	1.9 (46.3)	100	18.4
DIPTERA				
Chironomidae larvae	4.0 (1.7)	0.1 (2.4)	100	13.0
Ceratopogonidae	7.0 (2.9)	0.8 (19.5)	100	15.3
COPEPODA				
Cyclopoida	37.0 (15.4)	0.2 (4.9)	100	15.0
CLADOCERA				
Daphnidae	4.0 (1.7)	0.1 (2.4)	100	13.0
OSTRACODA	167.0 (77.6)	1.0 (24.4)	100	25.3

Table E.96. Seasonal (July) feeding habits of 5+ black crappie (n=2) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
Ephemeroptera				
Tricorythidae	0.5 ± 0.7 (2.9)	0.7 (8.6)	50.0	8.8
ODONATA				
Coenagrionidae	1.5 ± 0.7 (8.8)	2.8 (34.60)	100.0	20.5
DIPTERA				
Chironomidae larvae	1.0 ± 1.4 (5.9)	0.7 (8.6)	50.0	9.2
Chironomidae pupae	1.0 ± 1.4 (5.9)	3.1 (38.3)	50.0	13.5
Ceratopogonidae	1.5 ± 0.7 (8.8)	0.1 (1.2)	100.0	15.7
COPEPODA				
Cyclopoida	11.0 ± 0.0 (64.7)	0.6 (7.4)	100.0	24.6
CLADOCERA				
Chydoridae	0.5 ± 0.7 (2.9)	0.1 (1.2)	50.0	7.7

Table E.97. Seasonal (September) feeding habits of 5+ black crappie (n=2) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
Ephemeroptera				
Baetidae	13.5 ± 19.1 (18.9)	12.8 (17.0)	50.0	12.3
Diptera				
Chironomidae larvae	0.5 ± 0.7 (0.7)	37.3 (49.6)	50.0	14.3
Chironomidae pupae	0.5 ± 0.7 (0.7)	3.1 (4.1)	50.0	7.8
Copepoda				
Cyclopoida	0.5 ± 0.7 (0.7)	0.1 (<0.1)	50.0	7.3
Calanoida	2.5 ± 0.7 (0.7)	6.3 (8.4)	100.0	16.0
Cladocera				
Daphnidae	49.0 ± 69.3 (63.5)	9.0 (12.0)	50.0	18.6
Chydoridae	0.5 ± 0.7 (0.7)	2.0 (2.7)	50.0	7.6
Amphipoda				
Talitridae	4.5 ± 5.0 (6.3)	4.6 (6.1)	100.0	16.7

Table E.98. Annual feeding habits of 5+ black crappie (n=5) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
Ephemeroptera				
Baetidae	4.5 (4.1)	4.3 (14.8)	16.7	4.7
Tricorythidae	0.2 (0.2)	0.2 (0.7)	16.7	2.3
Odonata				
Coenagrionidae	1.2 (1.1)	1.6 (5.5)	66.7	9.6
Diptera				
Chironomidae larvae	1.8 (1.6)	12.7 (43.6)	66.7	14.7
Chironimidae pupae	0.5 (0.5)	2.1 (7.2)	33.3	5.4
Ceratopogonidae	2.8 (2.6)	0.3 (1.0)	66.7	9.2
Copepoda				
Cyclopoida	16.2 (14.8)	0.3 (1.0)	83.3	13.0
Calanoida	0.8 (0.7)	2.1 (7.2)	33.3	9.3
Cladocera				
Daphnidae	17.7 (16.1)	3.0 (10.3)	50.0	10.0
Chydoridae	0.3 (0.3)	0.7 (2.4)	33.3	4.7
Amphipoda				
Talitridae	1.5 (1.4)	1.5 (5.2)	33.3	5.2
Ostracoda				
	62.3 (56.7)	0.3 (1.0)	33.3	11.9

Table E.99. Seasonal (April) feeding habits of 6+ black crappie (n=2) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
EPHEMEROPTERA				
Baetidae	7.0 ± 4.2 (4.3)	5.7 (30.0)	100	22.4
DIPTERA				
Chironomidae larvae	75.5 ± 92.6 (46.9)	6.7 (35.3)	100	30.4
Ceratopogonidae	14.5 ± 20.5 (9.0)	1.0 (5.3)	50.0	10.7
CLADOCERA				
Daphnidae	0.5 ± 0.7 (0.3)	0.8 (4.2)	50.0	9.1
AMPHIPODA				
Talitridae	12.0 ± 17.0 (7.5)	4.7 (24.7)	50.0	13.7
OSTRACODA	51.5 ± 72.8 (32.0)	0.1 (0.5)	50.0	13.8

Table E.100. Annual feeding habits of 6+ black crappie (n=2) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
EPHEMEROPTERA				
Baetidae	2.3 (4.3)	1.9 (29.7)	33.3	20.2
DIPTERA				
Chironomidae larvae	25.2 (46.9)	2.2 (34.4)	33.3	34.4
Ceratopogonidae	4.8 (8.9)	0.3 (4.7)	16.7	9.1
CLADOCERA				
Daphnidae	0.2 (0.4)	0.3 (4.7)	16.7	6.5
AMPHIPODA				
Talitridae	4.0 (7.4)	1.6 (25.0)	16.7	14.7
OSTRACODA	17.2 (32.0)	<0.1 (1.6)	16.7	15.1

**SEASONAL FEEDING HABITS OF
BROWN TROUT**

Table E.101. Seasonal (July) feeding habits of 0+ brown trout (n=5) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
Ephemeroptera				
Baetidae	0.2 ± 0.5 (0.3)	0.1 (1.7)	20.0	5.5
Diptera				
Chironomidae larvae	71.4 ± 41.1 (97.0)	5.6 (94.9)	100.0	73.0
Chironomidae pupae	1.6 ± 2.1 (2.2)	0.1 (1.7)	60.0	16.0
Simuliidae	0.4 ± 0.9 (0.5)	0.1 (1.7)	20.0	5.6

Table E.102. Annual feeding habits of 0+ brown trout (n=5) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
Ephemeroptera				
Baetidae	<0.1 (0.4)	<0.1 (4.5)	6.7	4.4
Diptera				
Chironomidae larvae	23.8 (97.1)	1.9 (86.4)	33.3	81.4
Chironomid pupae	0.5 (2.0)	<0.1 (4.5)	20.0	9.9
Simuliidae	0.1 (0.4)	<0.1 (4.5)	6.7	4.4

Table E.103. Seasonal (April) feeding habits of 2+ brown trout (n=1) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
Ephemeroptera				
Baetidae	8.0 (80.0)	6.7 (98.5)	100.0	69.6
Amphipoda				
Talitridae	2.0 (20.0)	0.1 (1.5)	100.0	30.4

Table E.104. Seasonal (July) feeding habits of 2+ brown trout (n=1) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
Odonata				
Coenagrionidae	1.0 (100.0)	0.1 (100.0)	100.0	100.0

Table E.105. Annual feeding habits of 2+ brown trout (n=2) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
EPTHEMEROPTERA				
Baetidae	2.7 (73.0)	2.2 (91.7)	33.3	66.0
ODONATA				
Coenagrionidae	0.3 (8.1)	<0.1 (4.2)	33.1	15.1
AMPHIPODA				
Talitridae	0.7 (18.9)	<0.1 (4.2)	33.3	18.8

Table E.106. Seasonal (April) feeding habits of 3+ brown trout (n=2) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
DIPTERA				
Chironomidae pupae	532.0 ± 209.3 (99.9)	112.9 (99.3)	100.0	85.5
Simuliidae pupae	0.5 ± 0.7 (<0.1)	0.8 (0.7)	50.0	14.5

Table E.107. Annual feeding habits of 3+ brown trout (n=2) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
DIPTERA				
Chironomidae pupae	177.3 (99.9)	37.6 (99.2)	33.3	93.0
Simuliidae pupae	0.2 (0.1)	0.3 (0.8)	16.7	7.0

Table E.108. Seasonal (April) feeding habits of 4+ brown trout (n=4) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
TRICHOPTERA				
Limnephilidae	0.3 ± 0.5 (0.3)	3.7 (0.9)	25.0	5.0
Phryganeidae	0.3 ± 0.5 (0.3)	16.2 (4.1)	25.0	5.6
Brachycentridae	0.3 ± 0.5 (0.3)	1.5 (0.4)	25.0	4.9
PLECOPTERA				
Nemouridae	0.3 ± 0.5 (0.3)	0.8 (0.2)	25.0	4.9
ODONATA				
Libellulidae	0.5 ± 1.0 (0.6)	108.2 (27.4)	25.0	10.1
DIPTERA				
Chironomidae larvae	0.5 ± 1.0 (0.6)	0.3 (<0.1)	25.0	4.9
Chironomidae pupae	85.3 ± 156.7 (96.9)	32.7 (8.30)	100.0	39.1
GASTROPODA				
Planorbidae	0.3 ± 0.5 (0.3)	0.3 (<0.1)	25.0	4.8
Lymnaeidae	0.3 ± 0.5 (0.3)	5.7 (1.5)	25.0	5.1
OSTEICHTHYES	0.3 ± 0.5 (0.3)	224.9 (57.0)	25.0	15.7

Table E.109. Annual feeding habits of 4+ brown trout (n=4) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
TRICHOPTERA				
Limnephilidae	0.1 (0.3)	1.2 (0.9)	8.3	3.1
Phryganeidae	0.1 (0.3)	5.4 (4.1)	8.3	4.1
Brachycentridae	0.1 (0.3)	0.5 (0.4)	8.3	2.9
PLECOPTERA				
Nemouridae	0.1 (0.3)	0.3 (0.2)	8.3	2.8
ODONATA				
Libellulidae	0.2 (0.7)	36.1 (27.4)	8.3	11.8
DIPTERA				
Chironomidae larvae	0.2 (0.7)	0.1 (<0.1)	8.3	2.9
Chironomidae pupae	28.4 (96.3)	10.9 (8.3)	33.3	44.6
GASTROPODA				
Planorbidae	0.1 (0.7)	0.1 (<0.1)	8.3	2.9
Lymnaeidae	0.1 (0.7)	1.9 (1.4)	8.3	3.4
OSTEICHTHYES	0.1 (0.7)	75.0 (57.0)	8.3	21.4

**SEASONAL FEEDING HABITS OF
RAINBOW TROUT**

Table E.IIO. Seasonal (September) feeding habits of 2+ rainbow trout (n=1) in the Pend Oreille River.

	Number MEAN (%)	Weigh MEAN (%)	Occurrence %	IRI %
DIPTERA				
Chironomidae larvae	1 .0 (100.0)	0.3 (100.0)	100.0	100.0

Table E.111. Annual feeding habits of 2+ rainbow trout (n=1) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
DIPTERA				
Chironomidae larvae	0.3 (100.0)	0.1 (100.0)	33.3	100.0

Table E.112. Seasonal (April) feeding habits of 4+ rainbow trout (n=1) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
DIPTERA				
Chironomidae larvae	600.0 (100.0)	54.7 (100.0)	100	100

Table E.113. Annual feeding habits of 4+ rainbow trout (n=1) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
DIPTERA				
Chironomidae larvae	200.0 (100.0)	18.2 (100.0)	33.3	100.0

Table E.114. Seasonal (April) feeding habits of 5+ rainbow trout (n=1) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
TRICHOPTERA				
Phryganeidae	3.0 (3.7)	9.4 (2.8)	100	14.0
EPHEMEROPTERA				
Baetidae	1.0 (1.2)	0.2 (<0.1)	100	12.6
ODONATA				
Coenagrionidae	66.0 (80.5)	67.0 (20.2)	100	24.9
Libellulidae	8.0 (9.8)	254.2 (76.8)	100	23.1
COLEOPTERA				
DIPTERA				
Chironomidae larvae	2.0 (2.4)	0.1 (<0.1)	100	12.7
Chironomidae pupae	2.0 (2.4)	0.1 (<0.1)	100	12.7

Table E.115. Seasonal (April) feeding habits of 5+ rainbow trout (n=1) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
TRICHOPTERA				
Phryganeidae	3.0 (3.7)	9.4 (2.8)	100	14.0
EPHEMEROPTERA				
Baetidae	1.0 (1.2)	0.2 (<0.1)	100	12.6
ODONATA				
Coenagrionidae	66.0 (80.5)	67.0 (20.2)	100	24.9
Libellulidae	8.0 (9.8)	254.2 (76.8)	100	23.1
COLEOPTERA				
DIPTERA				
Chironomidae larvae	2.0 (2.4)	0.1 (<0.1)	100	12.7
Chironomidae pupae	2.0 (2.4)	0.1 (<0.1)	100	12.7

SEASONAL FEEDING HABITS OF KOKANEE

Table E.116. Seasonal (April) feeding habits of 1+ kokanee (n=2) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
DIPTERA				
Chironomidae larvae	0.5 ± 0.7 (0.2)	0.1 (0.3)	50.0	11.2
Chironomidae pupae	163.0 ± 229.1 (49.6)	26.4 (88.0)	100	52.8
COPEPODA				
Cyclopoida	4.5 ± 6.4 (1.4)	0.1 (0.3)	50.0	11.5
CLADOCERA				
Daphnidae	160.1 ± 227.0 (48.9)	3.4 (11.3)	50.0	24.5

Table E.117. Annual feeding habits of 1+ kokanee (n=2) in the Pend Oreille River.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
DIPTERA				
Chironomidae larvae	0.2 (0.2)	<0.1 (1.0)	16.7	16.3
Chironimidae pupae	54.3(49.6)	8.8 (87.1)	33.3	60.0
COPEPODA				
Cyclopoida	1.5 (1.4)	<0.1 (1.0)	16.7	6.7
CLADOCERA				
Daphnidae	53.4 (48.8)	1.1 (10.9)	16.7	27.0

Table E.118. Seasonal (July) feeding habits of 2+ kokanee (n=4) in the Pend Oreille River.

	Number MEAN&D.(%)	Weight MEAN (%)	Occurrence %	IRI %
DIPTERA				
Simuliidae	0.8 ± 1.5 (<0.1)	3.1 (2.6)	25.0	8.5
CLADOCERA				
Daphnidae	1110.0 ± 245.7 (99.9)	115.4 (97.4)	100.0	91.5

Table E.119. Annual feeding habits of 2+ kokanee (n=4) in the Pend Oreille River.

	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
DIPTERA				
Simuliidae	0.3 (<0.1)	1.0 (2.5)	8.3	4.5
CLADOCERA				
Daphnidae	370.0 (99.9)	38.5 (97.5)	33.3	95.5

APPENDIX F

**FEEDING HABITS OF FISH FOUND IN
TRIBUTARIES TO THE PEND OREILLE RIVER
DURING 1989**

FEEDING HABITS OF FISH IN LECLERC CREEK, 1989

Table F.1. June feeding habits of 0+ brook trout (N=2) in lower LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
EPHEMEROPTERA				
Ephemerellidae	0.5 (1.8)	1.2 (8.4)	50.0	6.0
Heptageniidae	0.5 (1.8)	0.7 (4.7)	50.0	5.6
DIPTERA				
Chironomidae larvae	0.5 (1.8)	1.3 (8.7)	50.0	6.0
Chironomidae pupae	9.5 (33.4)	1.0 (6.7)	50.0	9.1
Simuliidae	0.5 (1.8)	1.8 (5.6)	50.0	5.7
LEPIDOPTERA				
Pyrilidae	3.5 (12.5)	1.3 (9.0)	50.0	7.1
TERRESTRIAL ORGANISMS				
TRICHOPTERA	0.5 (1.8)	2.2 (15.0)	50.0	6.7
DIPTERA				
Simuliidae	1.0 (3.6)	0.9 (6.3)	50.0	6.0
HOMOPTERA				
Aphididae	7.0 (25.0)	1.3 (9.0)	100.0	13.4
Psyllidae	1.0 (3.6)	1.0 (6.7)	50.0	6.0
HYMENOPTERA				
Formicidae	1.0 (3.6)	1.0 (6.7)	100.0	11.0
ARANIEDA	0.5 (1.8)	0.5 (3.67)	50.0	5.5
UNIDENTIFIED	2.0 (7.1)	1.4 (9.4)	100.0	11.6

Table F.2. June feeding habits of 0+ brook trout (N=3) in upper LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
EPHEMEROPTERA				
Ephemerellidae	0.3 (1.3)	1.1 (11.7)	33.3	6.9
Baetidae	0.6 (2.5)	1.0 (10.7)	33.3	7.0
DIPTERA				
Chironomidae larvae	1.0 (3.8)	0.9 (9.2)	66.7	12.0
Simuliidae	4.0 (15.2)	1.8 (18.9)	100.0	20.1
Ceratopogonidae	1.3 (5.1)	0.7 (7.5)	66.7	11.9
TERRESTRIAL ORGANISMS				
TRICHOPTERA	1.3 (5.0)	0.6 (6.4)	33.3	6.7
HOMOPTERA				
Aphididae	16.3 (62.0)	2.6 (27.4)	100.0	28.4
HYMENOPTERA				
Formicidae	1.3 (5.0)	0.8 (8.2)	33.3	7.0

Table F.3. July feeding habits of 0+ brook trout (N=3) in lower LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Brachycentridae	1.0 (10.7)	10.0 (9.0)	33.3	7.6
DIPTERA				
Chironomidae larvae	0.3 (3.6)	8.6 (7.7)	33.3	6.4
Chironomidae pupae	1.7 (17.9)	10.6 (9.6)	66.7	13.4
HYDRACARINA	0.3 (3.6)	6.1 (5.5)	33.3	6.1
LEPIDOPTERA				
Pyralidae	1.3 (14.3)	6.0 (5.4)	33.3	7.6
TERRESTRIAL ORGANISMS				
DIPTERA				
Simuliidae	1.0 (10.7)	12.4 (11.1)	66.7	12.6
COLEOPTERA				
Elmidae adult	0.3 (3.6)	15.1 (13.6)	33.3	7.2
Lampyridae	0.3 (3.6)	7.4 (6.6)	33.3	6.2
HOMOPTERA				
Aphididae	0.7 (7.1)	14.3 (12.9)	33.3	7.6
HYMENOPTERA				
Formicidae	1.7 (17.9)	<0.1 (<0.1)	66.7	12.1
LEPIDOPTERA	0.3 (3.6)	0.2 (0.2)	33.3	5.3
OLIGOCHAETA				
Lumbriculidae	0.3 (3.6)	20.2 (18.2)	33.3	7.9

Table F.4. July feeding habits of 0+ brook trout (N=2) in upper LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Brachycentridae	2.0 (11.4)	0.1 (0.7)	50.0	6.9
Unidentified pupae	0.5 (2.9)	3.9 (25.9)	50.0	8.7
EPHEMEROPTERA				
Heptageniidae	8.5 (48.6)	0.8 (5.6)	50.0	11.6
DIPTERA				
Chironomidae larvae	0.5 (2.9)	<0.1 (0.3)	50.0	5.9
LEPIDOPTERA				
Pyrilidae	0.5 (2.9)	0.1 (0.3)	50.0	5.9
TERRESTRIAL ORGANISMS				
DIPTERA				
Unidentified	0.5 (2.9)	0.3 (2.0)	50.0	6.1
Mycetophilidae	0.5 (2.9)	0.2 (1.6)	50.0	6.1
Lampyridae	0.5 (2.9)	0.2 (1.6)	50.0	6.1
HOMOPTERA				
Aphididae	1.5 (8.6)	0.4 (2.6)	100.0	12.3
HYMENOPTERA				
Formicidae	1.5 (8.6)	0.1 (0.7)	100.0	12.3
ARANEIDA	0.5 (2.9)	4.3 (28.5)	50.0	9.0
LEPIDOPTERA	0.5 (2.9)	4.6 (30.2)	50.0	9.2

Table F.5. September feeding habits of 0+ brook trout (N=2) in lower LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	3.5 (36.8)	0.4 (15.1)	100.0	23.4
DIPTERA				
Chironomidae larvae	1.0 (10.5)	0.2 (7.5)	50.0	10.5
Chironomidae pupae	0.5 (5.3)	0.1 (5.7)	50.0	9.4
COLEOPTERA				
Elmidae larvae	0.5 (5.3)	<0.1 (1.9)	50.0	8.8
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Elmidae adult	0.5 (5.3)	<0.1 (1.9)	50.0	8.8
HYMENOPTERA				
Formicidae	0.5 (5.3)	0.3 (11.3)	50.0	10.2
UNIDENTIFIED	3.0 (31.6)	1.5 (56.6)	100.0	28.9

Table F.6. September feeding habits of 0+ brook trout (N=2) in upper LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	1.0 (8.7)	<0.1 (1.3)	100.0	13.8
Brachycentridae	0.5 (4.3)	<0.1 (1.3)	50.0	7.0
Rhyacophilidae	0.5 (4.3)	0.5 (13.5)	50.0	8.5
EPTHEMEROPTERA				
Baetidae	0.5 (4.3)	<0.1 (1.3)	50.0	7.0
HYDRACARINA	1.5 (13.0)	<0.1 (1.3)	50.0	8.0
TERRESTRIAL ORGANISMS				
HOMOPTERA				
Psyllidae	4.0 (34.8)	<0.1 (1.3)	50.0	10.8
HYMENOPTERA				
Formicidae	1.3 (13.0)	1.0 (27.0)	100.0	17.5
LEPIDOPTERA	0.5 (4.3)	0.9 (25.7)	50.0	10.0
HEMIPTERA				
Unidentified	0.5 (4.3)	0.4 (10.8)	50.0	8.1
DIPLOPODA	1.0 (8.7)	0.6 (16.2)	50.0	9.4

**Table F.7. October feeding habits of 0+ brook trout
(N=8) in upper LeClerc Creek for 1989.**

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.6 (7.8)	0.2 (17.4)	50.0	12.5
Brachycentridae	0.1 (1.6)	<0.1 (0.9)	12.5	2.5
EPHEMEROPTERA				
Ephemerellidae	0.1 (1.6)	<0.1 (1.8)	12.5	2.6
Baetidae	0.6 (7.8)	<0.1 (0.9)	37.5	7.7
DIPTERA				
Chironomidae larvae	0.6 (7.8)	<0.1 (0.9)	25.0	5.6
Chironomidae pupae	3.0 (37.5)	0.2 (11.9)	37.5	14.5
Culicidae	0.1 (1.6)	<0.1 (0.9)	12.5	2.5
PLECOPTERA				
Perlodidae	0.1 (1.6)	<0.1 (0.9)	12.5	2.5
Nemouridae	0.2 (3.1)	<0.1 (0.9)	25.0	4.8
HYDRACARINA	0.2 (3.1)	<0.1 (0.9)	25.0	4.8
TERRESTRIAL ORGANISMS				
DIPTERA				
Mycetophilidae	0.1 (1.6)	<0.1 (0.9)	12.5	2.5
Chironomidae	0.1 (1.6)	<0.1 (0.9)	12.5	2.5
HOMOPTERA				
Aphididae	0.2 (3.1)	<0.1 (0.9)	25.0	4.8
Cicadellidae	0.1 (1.6)	<0.1 (0.9)	12.5	2.5
Psyllidae	0.1 (1.6)	0.3 (25.7)	12.5	6.6
COLLEMBOLA				
Sminthuridae	0.1 (1.6)	<0.1 (0.9)	12.5	2.5
UNIDENTIFIED	1.2 (15.6)	0.4 (32.1)	62.5	18.4

Table F.8. March feeding habits of 1+ brook trout (N=6) in upper LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Brachycentridae	3.5 (58.3)	0.7 (82.7)	66.7	46.1
EPTHEMEROPTERA				
Heptageniidae	0.5 (8.3)	0.1 (11.5)	33.3	11.8
DIPTERA				
Chironomidae larvae	1.2 (19.4)	<0.1 (1.9)	66.7	19.6
HYDRACARINA	0.7 (11.1)	co.1 (1.9)	66.7	17.7
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Elmidae adult	0.2 (2.8)	<0.1 (1.9)	16.7	4.7

Table F.9. June feeding habits of 1+ brook trout (N=4) in lower LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	2.7 (10.7)	1.1 (4.2)	50.0	13.0
Brachycentridae	21.5 (83.5)	6.1 (23.1)	100.0	41.3
Pupae	0.2 (1.0)	1.2 (4.4)	25.0	6.1
EPTHEMEROPTERA				
Ephemerellidae	0.2 (1.0)	0.4 (1.5)	25.0	5.5
DIPTERA				
Ceratopogonidae	0.2 (0.1)	0.4 (1.7)	25.0	5.5
OSTEICHTHYES				
Salmonidae	0.2 (1.0)	16.8 (63.4)	25.0	17.9
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Elmidae adult	0.3 (1.0)	0.28 (1.0)	25.0	5.4
HOMOPTERA				
Unidentified	0.2 (1.0)	0.1 (0.6)	25.0	5.3

Table F.10. June feeding habits of 1+ brook trout (N=5) in upper LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.2 (1.7)	0.8 (6.3)	20.0	3.4
Brachycentridae	0.8 (6.7)	0.2 (1.6)	60.0	8.3
Rhyacophilidae	0.2 (1.67)	0.1 (1.31)	20.0	2.8
EPTHEMEROPTERA				
Ephemerellidae	0.4 (3.3)	0.4 (3.4)	40.0	5.7
Baetidae	0.4 (3.3)	0.6 (5.2)	20.0	3.5
DIPTERA				
Chironomidae larvae	0.2 (1.7)	0.3 (2.1)	20.0	2.9
Simuliidae	1.4 (11.7)	0.3 (2.4)	60.0	9.0
Ceratopogonidae	0.2 (1.7)	0.3 (2.1)	20.0	2.9
LEPIDOPTERA				
Pyralidae	0.8 (6.7)	6.1 (49.7)	60.0	14.2
TERRESTRIAL ORGANISMS				
TRICHOPTERA	0.6 (5.0)	0.4 (2.9)	20.0	3.4
DIPTERA				
Simuliidae	1.2 (10.0)	0.4 (2.9)	60.0	8.9
COLEOPTERA				
Elmidae adult	0.2 (1.7)	0.0 (0.2)	20.0	2.7
HOMOPTERA				
Aphididae	4.2 (35.0)	0.7 (5.9)	80.0	14.7
Cercopidae	0.2 (1.7)	0.6 (4.7)	20.0	3.2
HYMENOPTERA				
Formicidae	1.0 (8.3)	1.1 (9.0)	100.0	14.3

Table F.II. July feeding habits of 1+ brook trout (N=4) in lower LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Brachycentridae	7.2 (37.7)	3.2 (13.1)	75.0	12.6
Rhyacophilidae	0.2 (1.3)	2.0 (8.0)	25.0	3.4
Unidentified pupae	0.2 (1.3)	2.3 (9.3)	25.0	3.6
EPEHEMEROPTERA				
Ephemerellidae	0.7 (3.9)	3.2 (13.1)	75.0	9.2
DIPTERA				
Chironomidae larvae	2.2 (11.7)	0.2 (0.9)	50.0	6.3
Simuliidae	0.2 (1.3)	0.1 (0.4)	25.0	2.7
COLEOPTERA				
Amphizoidae	0.2 (1.3)	1.7 (6.8)	25.0	3.3
Hydrophilidae	0.7 (3.9)	0.5 (2.1)	50.0	5.6
HYDRACARINA	0.7 (3.9)	0.1 (0.5)	25.0	3.0
LEPIDOPTERA				
Pyrilidae	0.2 (1.3)	0.0 (0.1)	25.0	2.6
TERRESTRIAL ORGANISMS				
DIPTERA				
Mycetophilidae	0.2 (1.3)	0.0 (0.1)	25.0	2.6
COLEOPTERA				
Lampyridae	0.5 (2.6)	0.4 (1.8)	50.0	5.4
Elmidae adult	1.2 (6.5)	0.3 (1.1)	50.0	5.8
HOMOPTERA				
Cicadellidae	0.2 (1.3)	0.1 (0.2)	25.0	2.6
HYMENOPTERA				
Formicidae	0.7 (3.9)	0.3 (1.4)	25.0	3.0
Unidentified	0.7 (3.9)	0.0 (0.1)	50.0	5.4
ARANEIDA	0.5 (2.6)	0.0 (0.1)	50.0	5.3
LEPIDOPTERA	1.5 (7.8)	0.4 (1.5)	75.0	8.4
ORTHOPTERA	0.2 (1.3)	9.7 (39.2)	25.0	6.6
OLIGOCHAETA				
Lumbriculidae	0.2 (1.3)	0.0 (0.1)	25.0	2.6

Table F.12. July feeding habits of 1+ brook trout (N=4) in upper LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (ng) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.2 (3.2)	1.9 (13.1)	25.0	6.1
Brachycentridae	0.2 (3.2)	0.0 (0.1)	25.0	4.2
EPHEMEROPTERA				
Heptageniidae	0.2 (3.2)	0.2 (1.2)	25.0	4.3
COLEOPTERA				
Haliplidae	0.5 (6.4)	0.1 (0.3)	25.0	4.7
LEPIDOPTERA				
Pyralidae	0.2 (3.2)	0.0 (0.1)	25.0	4.2
TERRESTRIAL ORGANISMS				
DIPTERA				
Sciaridae	1.5 (19.3)	0.0 (0.1)	25.0	6.6
Unidentified	0.2 (3.2)	0.1 (0.7)	25.0	4.3
Mycetophilidae	1.0 (12.9)	0.0 (0.1)	25.0	5.6
COLEOPTERA				
Elmidae adult	0.5 (6.4)	0.0 (0.1)	50.0	8.4
COLEOPTERA				
Elatridae	0.2 (3.2)	0.6 (4.2)	25.0	4.8
Unidentified	1.0 (12.9)	2.2 (15.2)	50.0	11.6
HOMOPTERA				
Aphididae	0.2 (3.2)	0.0 (0.1)	25.0	4.2
HYMENOPTERA				
Formicidae	0.7 (9.7)	1.0 (7.0)	50.0	9.9
ARANEIDA	0.2 (3.2)	0.0 (0.1)	25.0	4.2
LEPIDOPTERA				
Unidentified	0.5 (6.4)	8.2 (56.9)	50.0	16.8

Table F.13. September feeding habits of 1+ brook trout (N=10) in upper LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.4 (8.9)	0.2 (0.3)	40.0	8.6
Brachycentridae	0.1 (2.2)	0.0 (0.02)	10.0	2.1
Hydropsychidae	0.1 (2.2)	0. (0.02)	10.0	2.1
EPEHEMEROPTERA				
Ephemereilidae	0.2 (4.4)	0.0 (0.05)	20.0	4.3
Baetidae	1.2 (26.7)	0. (0.4)	60.0	15.3
Heptageniidae	0.1 (2.2)	0.0 (0.02)	10.0	2.1
DIPTERA				
Chironomidae larvae	0.1 (2.2)	0.0 (0.02)	10.0	2.1
Tipulidae	0.1 (2.2)	0.0 (0.02)	10.0	2.1
PLECOPTERA				
Perlodidae	0.2 (4.4)	0.0 (0.02)	20.0	4.3
COLEOPTERA				
Haliplidae	0.2 (4.4)	0.2 (0.4)	20.0	4.4
HYDRACARINA	0.4 (8.9)	0.0 (0.02)	30.0	6.8
OSTEICHTHYES				
Unidentified	0.2 (4.4)	12.3 (22.1)	20.0	8.2
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Elmidae adult	0.1 (2.2)	0.0 (0.02)	10.0	2.1
HYMENOPTERA				
Formicidae	0.4 (8.9)	0.7 (1.3)	30.0	7.0
LEPIDOPTERA	0.4 (8.9)	33.1 (59.6)	40.0	19.0
ORTHOPTERA	0.1 (2.2)	7.3 (13.2)	10.0	4.5
UNIDENTIFIED	0.2 (4.4)	1.3 (2.3)	20.0	4.7

Table F.14. October feeding habits of 1+ brook trout (N=3) in lower LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.6 (7.7)	0.3 (10.0)	33.3	6.4
Brachycentridae	0.3 (3.8)	0.0 (1.0)	33.3	4.8
Ephemeroptera				
Ephemerellidae	0.6 (7.7)	0.1 (2.0)	66.6	9.5
DIPTERA				
Chironomidae pupae	0.6 (7.7)	0.0 (1.0)	33.3	5.2
Culicidae	0.3 (3.8)	0.0 (1.0)	33.3	4.8
PLECOPTERA				
Perlodidae	0.3 (3.8)	0.0 (1.0)	33.3	4.8
COLEOPTERA				
Halplidae	0.3 (3.8)	0.7 (21.0)	33.3	7.3
Hydrophilidae	0.6 (7.7)	1.1 (34.0)	33.3	9.4
Dytiscidae	0.3 (0.6)	0.3 (8.0)	33.3	5.6
TERRESTRIAL ORGANISMS				
PLECOPTERA	0.3 (3.8)	0.0 (1.0)	33.3	4.7
DIPTERA				
Empididae	0.3 (3.8)	0.0 (1.0)	33.3	4.7
Unidentified	1.0 (11.5)	0.0 (1.0)	33.3	5.7
COLEOPTERA				
Unidentified	0.3 (3.8)	0.1 (3.0)	33.3	5.0
HOMOPTERA				
Cercopidae	0.3 (3.8)	0.4 (13.0)	33.3	6.3
HYMENOPTERA				
Diapriidae	0.3 (3.8)	0.0 (1.0)	33.3	4.8
UNIDENTIFIED	1.7 (19.2)	0.0 (1.0)	66.7	10.9

Table F.15. March feeding habits of 2+ brook trout (N=1) in LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	3.0 (24.0)	4.2 (49.1)	100.0	31.5
Brachycentridae	1.5 (12.0)	0.1 (0.6)	50.0	11.4
Rhyacophilidae	0.5 (4.0)	1.6 (19.3)	50.0	13.3
EPHEMEROPTERA				
Heptageniidae	3.0 (24.0)	2.5 (29.8)	50.0	18.9
DIPTERA				
Chironomidae larvae	2.0 (16.0)	0.1 (0.6)	50.0	12.1
Chironomidae pupae	2.5 (20.0)	0.1 (0.6)	50.0	12.8

Table F.16. June feeding habits of 2+ brook trout (N=1) in upper LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	6.0 (54.5)	112.1 (94.7)	100.0	41.5
COLEOPTERA				
Halplidae	1.0 (9.1)	1.8 (1.5)	100.0	18.4
LEPIDOPTERA				
Pyralidae	1.0 (9.1)	0.1 (0.08)	100.0	18.2
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	14.0 (27.2)	4.4 (3.7)	100.0	21.8

Table F.17. June feeding habits of 2+ brook trout (N=1) in lower LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	7.0 (50.0)	8.0 (11.2)	100.0	20.1
Brachycentridae	3.0 (21.4)	5.4 (7.5)	100.0	16.1
TERRESTRIAL ORGANISMS				
PLECOPTERA	1.0 (7.1)	0.7 (1.0)	100.0	13.5
HOMOPTERA				
Cercopidae	1.0 (7.1)	2.1 (2.93)	100.0	13.8
HYMENOPTERA				
Ichneumonidae	1.0 (7.1)	0.7 (1.0)	100.0	13.5
OLIGOCHAETA				
Lumbriculidae	1.0 (7.1)	54.7 (76.4)	100.0	22.9

Table F.18. July feeding habits of 2+ brook trout (N=3) in lower LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	8.3 (37.9)	25.7 (60.2)	100.0	19.2
Brachycentridae	2.7 (12.1)	4.2 (9.9)	66.7	8.6
Hydropsychidae	0.3 (1.5)	0.6 (1.4)	33.3	3.5
EPHEMEROPTERA				
Ephemerellidae	1.0 (4.5)	4.3 (10.0)	66.7	7.9
DIPTERA				
Chironomidae larvae	2.0 (9.1)	0.2 (0.5)	33.3	4.1
Chironomidae pupae	1.3 (6.1)	0.4 (0.9)	66.7	7.1
Simuliidae	0.3 (1.5)	0.3 (0.6)	33.3	3.4
Tipulidae	0.3 (1.5)	1.6 (3.8)	33.3	3.7
Ceratopogonidae	0.3 (1.5)	0.2 (0.4)	33.3	3.4
COLEOPTERA				
Elmidae	0.7 (3.0)	1.3 (0.6)	66.7	6.9
Hydrophilidae	0.3 (1.5)	0.3 (0.6)	33.3	3.4
LEPIDOPTERA				
Pyalidae	2.3 (10.6)	0.9 (2.0)	66.7	7.7
TERRESTRIAL ORGANISMS				
PLECOPTERA	0.3 (1.5)	2.3 (5.4)	33.3	3.9
COLEOPTERA				
Unidentified	0.3 (1.5)	0.3 (0.8)	33.3	3.4
HOMOPTERA				
Aphididae	0.3 (1.5)	0.0 (0.08)	33.3	3.4
HYMENOPTERA				
Formicidae	0.3 (1.5)	0.0 (0.08)	33.3	3.4
Diapriidae	0.3 (1.5)	0.0 (0.08)	33.3	3.4
DIPLOPODA				
Unidentified	0.3 (1.5)	0.7 (1.7)	33.3	3.5

Table F.19. July feeding habits of 2+ brook trout (N=4) in upper LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	3.2 (8.8)	9.8 (15.2)	50.0	6.2
Brachycentridae	0.7 (2.0)	<0.1 (<0.1)	50.0	4.3
Pupae	0.2 (0.7)	0.6 (1.0)	25.0	2.2
EPHEMEROPTERA				
Ephemerellidae	2.5 (6.8)	9.3 (14.4)	75.0	8.0
Heptageniidae	0.7 (2.0)	<0.1 (<0.1)	50.0	4.3
DIPTERA				
Tipulidae	0.2 (0.6)	1.6 (2.5)	25.0	2.3
Muscidae	1.0 (2.7)	<0.1 (<0.1)	50.0	4.4
COLEOPTERA				
Hydrophilidae	0.7 (2.0)	<0.1 (<0.1)	50.0	4.3
LEPIDOPTERA				
Pyrilidae	2.2 (6.1)	0.2 (0.4)	50.0	4.7
TERRESTRIAL ORGANISMS				
TRICHOPTERA	0.2 (0.7)	0.2 (0.3)	25.0	2.2
DIPTERA				
Sciaridae	0.2 (0.7)	0.2 (0.3)	25.0	2.2
Mycetophilidae	0.5 (1.4)	<0.1 (<0.1)	25.0	2.2
COLEOPTERA				
Curculionidae	0.2 (0.7)	<0.1 (<0.1)	25.0	2.1
Byrrhidae	0.2 (0.7)	<0.1 (<0.1)	25.0	2.1
HOMOPTERA				
Cicadellidae	3.2 (8.8)	0.6 (0.9)	50.0	5.0
Psyllidae	3.5 (9.5)	0.3 (0.45)	50.0	5.0
HYMENOPTERA				
Formicidae	8.5 (23.1)	9.7 (15.0)	75.0	9.4
Ichneumonidae	0.5 (1.4)	<0.1 (<0.1)	25.0	2.2
ARANEIDA	0.2 (0.7)	<0.1 (<0.1)	25.0	2.1
LEPIDOPTERA				
Unidentified	4.2 (11.6)	11.9 (18.5)	50.0	6.7
DIPLOPODA	0.2 (0.7)	16.2 (25.1)	25.0	4.2
NEUROPTERA				
Chrysopidae	0.5 (1.4)	0.1 (0.2)	50.0	4.3
OLIGOCHAETA				
Lumbriculidae	0.2 (0.7)	1.3 (2.1)	25.0	2.3
UNIDENTIFIED	2.2 (6.1)	2.0 (3.2)	75.0	7.0

Table F.20. September feeding habits of 2+ brook trout (N=2) in upper LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.5 (33.3)	18.5 (4.6)	50.0	25.1
OSTEICHTHYES				
Cottidae	0.5 (33.3)	371.3 (92.9)	50.0	50.3
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	0.5 (33.3)	10.0 (2.5)	50.0	24.5

Table F.21 March feeding habits of 3+ brook trout (N=1) in LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	8.0 (88.9)	6.9 (79.3)	100.0	67.0
EPHEMEROPTERA				
Ephemereilidae	1.0 (11.1)	1.9 (20.7)	100.0	32.9

Table F.22 June feeding habits of 3+ brook trout (N=2) in upper LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	1.0 (8.7)	3.2 (16.9)	50.0	9.4
Unidentified pupae	2.0 (17.4)	0.8 (4.2)	100.0	15.2
EPHEMEROPTERA				
Baetidae	1.0 (8.7)	0.5 (2.6)	50.0	7.7
DIPTERA				
Simuliidae	1.0 (8.7)	0.1 (0.3)	50.0	7.4
Ceratopogonidae	0.5 (4.3)	0.1 (0.3)	50.0	6.8
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Unidentified	1.0 (8.7)	1.1 (6.0)	50.0	8.1
Cerambycidae	0.5 (4.3)	4.4 (23.3)	50.0	9.7
HYMENOPTERA				
Formicidae	2.5 (21.7)	2.8 (14.8)	100.0	17.1
LEPIDOPTERA	1.5 (13.0)	1.1 (6.1)	50.0	8.6
ODONATA				
Aeshnidae	0.5 (4.3)	4.8 (25.4)	50.0	10.0

Table F.23. July feeding habits of 3+ brook trout (N=1) in upper LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
LEPIDOPTERA				
Pyralidae	2.0 (8.0)	0.1 (1.9)	100.0	10.0
TERRESTRIAL ORGANISMS				
DIPTERA				
Sciaridae	2.0 (8.0)	0.1 (1.9)	100.0	10.0
Mycetophilidae	3.0 (12.0)	0.1 (1.9)	100.0	10.3
COLEOPTERA				
Staphylinidae	1.0 (4.0)	0.1 (1.9)	100.0	9.6
Unidentified	1.0 (4.0)	0.8 (15.1)	100.0	10.8
HOMOPTERA				
Aphididae	2.0 (8.0)	0.1 (1.9)	100.0	10.0
HYMENOPTERA				
Formicidae	6.0 (24.0)	1.7 (32.1)	100.0	14.2
Ichneumonidae	4.0 (16.0)	1.7 (32.1)	100.0	13.5
UNIDENTIFIED	4.0 (16.0)	0.6 (11.3)	100.0	11.6

Table F.24. June feeding habits of 0+ brown trout (N=7) in lower LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (ng) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
EPHEMEROPTERA				
Ephemerellidae	0.4 (3.5)	<0.1 (1.4)	14.10	2.7
Baetidae	1.0 (8.2)	1.0 (11.3)	71.4	12.7
DIPTERA				
Chironomidae larvae	2.4 (20.0)	<0.1 (1.4)	85.7	15.0
Chironomidae pupae	3.6 (29.4)	<0.1 (1.4)	71.4	14.5
Simuliidae	0.6 (4.7)	<0.1 (4.2)	26.6	3.1
Ceratopogonidae	0.3 (2.3)	1.0 (8.4)	28.6	5.5
TERRESTRIAL ORGANISMS				
TRICHOPTERA	0.6 (4.7)	0.1 (14.1)	42.9	8.6
DIPTERA				
Sciaridae	0.1 (1.2)	<0.1 (1.4)	14.3	2.4
Chironomidae	0.4 (3.5)	<0.1 (1.4)	14.3	2.7
HOMOPTERA				
Aphididae	1.1 (9.4)	<0.1 (1.4)	57.1	9.5
Unidentified	0.1 (1.2)	<0.1 (1.4)	14.3	2.4
LEPIDOPTERA	0.4 (5.9)	0.5 (50.7)	28.6	11.9
UNIDENTIFIED	0.7 (5.9)	<0.1 (1.4)	42.9	7.0

Table F.25. July feeding habits of 0+ brown trout (N=3) in lower LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	1.0 (6.5)	5.7 (13.5)	33.3	8.4
Brachycentridae	0.3 (2.2)	2.7 (6.3)	33.3	6.6
Glossosomatidae	0.3 (2.2)	14.7 (34.9)	33.3	11.1
EPHEMEROPTERA				
Heptageniidae	3.0 (19.6)	1.0 (2.4)	66.7	14.0
DIPTERA				
Chironomidae larvae	8.7 (56.5)	7.9 (18.7)	100.0	27.7
Simuliidae	1.0 (6.5)	10.0 (23.8)	66.7	15.3
HYDRACARINA	0.3 (2.2)	<0.1 (<0.1)	33.3	5.6
TERRESTRIAL ORGANISMS				
HOMOPTERA				
Aphididae	0.3 (2.2)	<0.1 (1.0)	33.3	5.6
OLIGOCHAETA				
Lumbriculidae	0.3 (2.2)	<0.1 (<0.1)	33.3	5.6

Table F.26. September feeding habits of 0+ brown trout (N=3) in lower LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	3.3 (23.8)	0.6 (11.6)	66.7	18.0
EPHEMEROPTERA				
Ephemerellidae	1.0 (7.1)	0.2 (4.7)	66.7	13.9
Baetidae	2.3 (16.7)	0.3 (5.4)	66.7	15.7
Heptageniidae	0.7 (4.8)	1.1 (23.1)	66.7	16.7
DIPTERA				
Chironomidae larvae	1.0 (7.1)	<0.1 (0.7)	66.7	13.1
TERRESTRIAL ORGANISMS				
UNIDENTIFIED	5.7 (40.5)	2.7 (54.4)	33.3	22.6

Table F.27. October feeding habits of 0+ brown trout (N=7) in lower LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.4 (2.1)	0.2 (2.6)	28.6	5.3
Brachycentridae	0.1 (0.7)	1.0 (1.0)	14.3	2.5
EPHEMEROPTERA				
Ephemerellidae	1.0 (5.0)	1.4 (21.8)	71.4	15.6
Baetidae	14.4 (71.6)	3.5 (53.4)	85.7	33.5
Heptageniidae	1.4 (7.1)	<0.1 (1.0)	28.6	5.8
DIPTERA				
Chironomidae larvae	0.3 (1.4)	1.0 (1.3)	28.6	5.0
Chironomidae pupae	0.3 (1.4)	1.0 (1.3)	28.6	5.0
Tipulidae	0.3 (1.4)	0.1 (2.0)	28.6	5.1
Culicidae	0.4 (2.1)	0.1 (1.5)	28.6	5.1
COLEOPTERA				
Elmidae larvae	0.3 (1.4)	1.0 (1.3)	14.3	2.7
Hydrophilidae	0.4 (2.1)	1.0 (1.3)	14.3	2.8
OLIGOCHAETA				
Naididae	0.1 (0.7)	0.0 (0.4)	14.3	2.5
TERRESTRIAL ORGANISMS				
PLECOPTERA	0.3 (1.4)	0.2 (3.75)	14.3	3.1
DIPTERA				
Empididae	0.4 (0.7)	0.3 (4.4)	14.3	3.1
UNIDENTIFIED	0.1 (0.7)	0.2 (3.1)	14.3	2.9

Table F.28. March feeding habits of 1+ brown trout (N=3) in LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Brachycentridae	4.0 (52.2)	1.4 (18.2)	66.7	34.3
EPHEMEROPTERA				
Heptageniidae	2.7 (34.8)	1.4 (55.8)	66.7	39.3
Baetidae	0.3 (4.3)	<0.1 (1.3)	33.3	9.7
Ephemerellidae	0.7 (8.7)	0.6 (24.7)	33.3	16.7

Table F.29. June feeding habits of 1+ brown trout (N=5) in lower LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	3.0 (27.8)	0.8 (15.9)	80.0	16.7
Brachycentridae	0.2 (1.8)	<0.1 (0.4)	20.0	3.0
Unidentified pupae	0.6 (5.6)	0.2 (3.9)	40.0	6.7
EPHEMEROPTERA				
Ephemerellidae	0.6 (5.6)	1.2 (22.9)	40.0	9.2
Baetidae	0.4 (3.7)	<0.1 (0.4)	40.0	6.0
DIPTERA				
Chironomidae larvae	0.4 (3.7)	<0.1 (0.4)	20.0	3.3
Chironomidae pupae	1.0 (9.3)	<0.1 (0.4)	20.0	4.0
COLEOPTERA				
Halplidae	0.2 (1.8)	<0.1 (0.8)	20.0	3.0
TERRESTRIAL ORGANISMS				
TRICHOPTERA	0.4 (3.7)	<0.1 (0.4)	40.0	6.0
DIPTERA				
Sciaridae	0.4 (3.7)	<0.1 (0.4)	20.0	3.3
Bibionidae	0.2 (1.8)	<0.1 (0.4)	20.0	3.0
COLEOPTERA				
Elmidae adult	0.2 (1.8)	<0.1 (0.4)	20.0	3.0
HOMOPTERA				
Aphididae	1.2 (11.1)	0.3 (5.0)	20.0	5.0
Homoptera	0.6 (5.6)	<0.1 (0.4)	20.0	3.5
HYMENOPTERA				
Formicidae	0.8 (7.4)	0.6 (10.8)	80.0	13.3
LEPIDOPTERA	0.6 (5.6)	1.9 (37.2)	40.0	11.2

Table F.30. July feeding habits of 1+ brown trout (N=5) in lower LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.8 (3.1)	4.6 (4.3)	60.0	7.8
Brachycentridae	2.4 (9.4)	6.0 (5.7)	80.0	11.1
Rhyacophilidae	0.2 (0.8)	5.1 (4.8)	20.0	3.0
EPTHEMEROPTERA				
Ephemereillidae	0.4 (1.6)	7.4 (7.0)	40.0	5.6
Baetidae	2.2 (8.7)	6.9 (6.5)	40.0	6.4
Heptageniidae	6.4 (25.2)	24.5 (12.2)	60.0	11.0
DIPTERA				
Chironomidae larvae	8.8 (34.6)	8.4 (7.9)	80.0	14.2
Simuliidae	0.4 (1.6)	11.1 (10.4)	40.0	6.0
PLECOPTERA				
Chloroperlidae	0.2 (0.8)	7.3 (6.8)	20.0	3.2
DIPTERA				
Simuliidae	0.8 (3.1)	2.8 (2.6)	20.0	3.3
Unidentified	0.6 (2.4)	5.3 (4.9)	60.0	8.2
COLEOPTERA				
Elmidae adult	0.2 (0.8)	7.3 (6.8)	40.0	5.3
Carabidae	0.2 (0.8)	8.5 (8.0)	20.0	2.4
COLEOPTERA	0.4 (1.6)	2.8 (2.6)	20.0	2.8
HOMOPTERA				
Aphididae	0.2 (0.8)	6.2 (5.8)	20.0	3.1
Cicadellidae	0.2 (0.8)	0.8 (0.8)	20.0	2.5
ARANEIDA	0.2 (0.78)	5.5 (5.1)	20.0	3.0

Table F.31 September feeding habits of 1+ brown trout (N=3) in lower LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	2.0 (15.0)	0.4 (1.4)	66.7	13.1
Rhyacophilidae	2.7 (20.0)	7.5 (24.7)	33.3	12.3
EPHEMEROPTERA				
Baetidae	2.3 (17.5)	1.1 (3.5)	100.0	19.1
DIPTERA				
Chironomidae larvae	0.7 (5.0)	0.2 (0.5)	66.7	11.4
PLECOPTERA				
Nemouridae	0.3 (2.5)	0.1 (0.3)	33.3	5.7
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	4.0 (30.0)	14.8 (48.7)	66.7	23.0
PLECOPTERA	0.3 (2.5)	2.1 (6.9)	33.3	6.7
UNIDENTIFIED	1.0 (7.5)	4.2 (13.7)	33.3	8.6

Table F.32. October feeding habits of 1+ brown trout (N=1) in lower LeClerc Creek for 1989.

PREY ITEMS	Number Mean(%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	10.0 (100.0)	11.6 (100.0)	100.0	100.0

Table F.33 March feeding habits of 2+ brown trout (N=4) in LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	2.2 (15.0)	8.8 (62.5)	75.0	30.5
Brachycentridae	8.0 (53.3)	1.8 (13.1)	100.0	33.2
EPEHEMEROPTERA				
Heptageniidae	2.2 (15.0)	3.2 (22.6)	75.0	22.5
Baetidae	2.2 (15.0)	<0.1 (0.2)	25.0	8.0
Ephemerellidae	0.3 (1.7)	0.2 (1.6)	25.0	5.6

Table F.34 June feeding habits of 2+ brown trout (N=1) in lower LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	12.0 (54.5)	5.8 (16.2)	100.0	24.4
Brachycentridae	6.0 (27.3)	8.4 (23.5)	100.0	21.5
EPEHEMEROPTERA				
Ephemerellidae	1.0 (4.5)	13.2 (37.0)	100.0	20.2
Baetidae	2.0 (9.1)	0.3 (0.8)	100.0	15.7
TERRESTRIAL ORGANISMS				
TRICHOPTERA	1.0 (4.5)	8.0 (22.4)	100.0	18.1

Table F.35. July feeding habits of 2+ brown trout (N=2) in lower LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Brachycentridae	1.0 (20.0)	20.2 (10.1)	50.0	13.3
Rhyacophilidae	0.5 (10.0)	30.5 (15.2)	50.0	12.5
EPHEMEROPTERA				
Ephemerellidae	0.5 (10.0)	24.5 (12.2)	50.0	12.0
Heptageniidae	1.0 (20.0)	24.5 (12.2)	50.0	13.1
COLEOPTERA				
Elmidae larvae	0.5 (10.0)	19.9 (10.0)	50.0	11.7
TERRESTRIAL ORGANISMS				
OLIGOCHAETA				
Lumbriculidae	1.0 (20.0)	71.3 (35.5)	100.0	25.1
LEPIDOPTERA	0.5 (10.0)	9.8 (4.9)	50.0	10.8

Table F.36. September feeding habits of 2+ brown trout (N=3) in lower LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	3.3 (11.8)	1.8 (1.4)	66.7	12.6
Brachycentridae	1.3 (4.7)	1.3 (1.0)	33.3	6.2
Rhyacophilidae	2.0 (7.1)	2.2 (1.7)	33.3	6.6
Glossosomatidae	2.0 (7.1)	1.5 (1.2)	33.3	6.6
TERRESTRIAL ORGANISMS				
HOMOPTERA				
Cicadellidae	0.7 (2.3)	1.5 (1.2)	33.3	5.8
HYMENOPTERA				
Formicidae	17.3 (61.2)	11.0 (84.0)	66.7	33.4
ARANEIDA	0.3 (1.2)	0.7 (0.5)	33.3	5.5
LEPIDOPTERA	0.3 (1.2)	4.3 (3.3)	33.3	6.0
OLIGOCHAETA				
Lumbriculidae	0.3 (1.2)	6.1 (4.8)	33.3	6.2
UNIDENTIFIED	0.67 (2.3)	0.9 (0.7)	66.7	11.0

Table F.37. June feeding habits of 3+ brown trout (N=2) in lower LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	4.0 (21.6)	2.4 (2.9)	50.0	9.9
Brachycentridae	7.0 (37.8)	14.3 (16.7)	100.0	20.6
OSTEICHTHYES				
Unidentified	0.5 (2.7)	60.1 (70.2)	50.0	16.4
TERRESTRIAL ORGANISMS				
TRICHOPTERA	0.5 (2.7)	0.1 (0.1)	50.0	7.0
DIPTERA				
Sciaridae	0.5 (2.7)	0.1 (0.1)	50.0	7.0
Unidentified	1.5 (8.1)	0.8 (1.0)	50.0	7.9
COLEOPTERA				
Chrysomelidae	0.5 (2.7)	2.3 (2.7)	50.0	7.4
HYMENOPTERA				
Formicidae	1.5 (8.1)	1.3 (1.5)	50.0	7.9
ARANEIDA	0.5 (2.7)	0.1 (0.1)	50.0	7.0
UNIDENTIFIED	2.0 (10.8)	4.1 (4.8)	50.0	8.7

Table F.38. September feeding habits of 3+ brown trout (N=2) in lower LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	1.5 (6.0)	27.8 (12.8)	50.0	13.7
Rhyacophilidae	2.5 (10.0)	8.9 (4.1)	100.0	22.8
PLECOPTERA				
Nemouridae	0.5 (2.0)	0.1 (<0.1)	50.0	10.4
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	20.0± (80.0)	172.2 (79.1)	50.0	41.8
ORTHOPTERA	0.5 (2.0)	8.6 (4.0)	50.0	11.2

Table F.39. October feeding habits of 3+ brown trout (N=2) in lower LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (ng) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	7.5 (100.0)	17.2 (100.0)	100.0	100.0

Table F.40. March feeding habits of 4+ brown trout (N=4) in LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (ng) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	3.0 (100.0)	16.3 (100.0)	100.0	100.0

Table F.41. September feeding habits of 1+ cutthroat trout (N=3) in lower LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	4.7 (35.0)	0.6 (2.8)	100.0	18.0
Brachycentridae	0.7 (5.0)	0.3 (1.5)	66.7	9.5
Rhyacophilidae	0.3 (2.5)	<0.1 (0.2)	33.3	4.7
EPHEMEROPTERA				
Ephemerellidae	0.3 (2.5)	5.3 (24.6)	33.3	7.9
Baetidae	2.7 (20.0)	2.2 (10.4)	100.0	17.0
DIPTERA				
Chironomidae larvae	1.0 (5.0)	<0.1 (0.2)	66.7	9.4
TERRESTRIAL ORGANISMS				
PLECOPTERA	1.0 (7.5)	5.3 (24.8)	66.7	12.9
HYMENOPTERA				
Formicidae	2.7 (20.0)	6.3 (29.3)	66.7	15.1
LEPIDOPTERA	0.3 (2.5)	1.3 (6.2)	33.3	5.5

Table F.42. October feeding habits of 1+ cutthroat trout (N=1) in lower LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
EPHEMEROPTERA				
Baetidae	1.0 (100.0)	1.0 (100.0)	100.0	100.0

Table F.43. October feeding habits of 1+ cutthroat trout (N=1) in upper LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
DIPTERA				
Chironomidae pupae	3.0 (23.1)	1.0 (9.5)	100.0	14.7
COLEOPTERA				
Hydrophilidae	1.0 (7.7)	1.0 (11.1)	100.0	13.2
TERRESTRIAL ORGANISMS				
PLECOPTERA	1.0 (7.7)	1.3 (20.6)	100.0	14.3
DIPTERA				
Mycetophilidae	1.0 (7.7)	1.0 (15.9)	100.0	13.7
LEPIDOPTERA	1.0 (7.7)	1.8 (28.6)	100.0	15.1
COLLEMBOLA				
Sminthuridae	1.0 (7.7)	0.1 (1.6)	100.0	12.1
UNIDENTIFIED TERRESTRIALS	5.0 (38.5)	0.8 (12.7)	100.0	16.8

Table F.44. March feeding habits of 2+ cutthroat trout (N=2) in lower LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Brachycentridae	10.0 (44.4)	2.9 (8.0)	100.0	23.4
Hydropsychidae	6.0 (26.7)	3.3 (9.1)	50.0	13.2
EPEHEMEROPTERA				
Heptageniidae	2.5 (11.1)	3.5 (9.8)	100.0	18.6
Baetidae	2.0 (8.9)	0.1 (0.1)	50.0	9.1
Ephemerellidae	1.0 (4.4)	5.6 (15.4)	50.0	10.7
COLEOPTERA				
Elmidae larvae	0.5 (2.2)	1.3 (3.7)	50.0	8.6
LEPIDOPTERA				
Pyralidae	0.5 (2.2)	19.6 (53.9)	50.0	16.3

Table F.45. October feeding habits of 2+ cutthroat trout (N=1) in lower LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	4.0 (23.5)	0.1 (0.4)	100.0	12.4
Brachycentridae	3.0 (17.6)	2.3 (8.2)	100.0	12.6
Rhyacophilidae	1.0 (5.9)	0.1 (0.4)	100.0	10.6
Hydroptilidae	1.0 (5.9)	0.1 (0.4)	100.0	10.6
EPTHEMEROPTERA				
Baetidae	2.0 (11.8)	0.1 (0.4)	100.0	11.2
DIPTERA				
Chironomidae larvae	3.0 (17.6)	0.1 (0.4)	100.0	11.8
Tipulidae	2.0 (11.8)	25.0 (89.6)	100.0	20.1
COLEOPTERA				
Elmidae larvae	1.0 (5.9)	0.1 (0.4)	100.0	10.6

Table F.46. October feeding habits of 2+ cutthroat trout (N=1) in upper LeClerc Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	1.0 (3.2)	1.2 (0.3)	100.0	8.6
Glossosomatidae	1.0 (3.2)	0.1 (<0.1)	100.0	8.6
PLECOPTERA				
Nemouridae	1.0 (3.2)	0.1 (<0.1)	100.0	8.6
COLEOPTERA				
Dytiscidae	1.0 (3.2)	67.4 (16.2)	100.0	10.0
OSTEICHTHYES				
Unidentified	1.0 (3.2)	224.0 (55.5)	100.0	13.2
TERRESTRIAL ORGANISMS				
DIPTERA				
Empididae	1.0 (3.2)	0.3 (0.1)	100.0	8.6
COLEOPTERA				
Elmidae adult	1.0 (3.2)	3.6 (0.9)	100.0	8.7
ARANEIDA	1.0 (3.2)	4.9 (1.2)	100.0	8.7
OLIGOCHAETA				
Lumbriculidae	1.0 (3.2)	95.4 (23.6)	100.0	10.6
UNIDENTIFIED TERRESTRIAL	22.0 (71.0)	6.4 (1.6)	100.0	14.4

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Table F.47. June feeding habits of 0+ brook trout (N=7) in lower Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Brachycentridae	0.4 (5.6)	<0.1 (1.0)	42.9	9.1
EPHEMEROPTERA				
Ephemerellidae	1.3 (16.7)	0.8 (58.0)	42.9	21.6
Heptageniidae	0.3 (3.7)	0.3 (20.0)	28.6	9.6
DIPTERA				
Chironomidae larvae	3.0 (38.9)	0.1 (9.0)	57.1	19.3
Simuliidae	0.9 (11.1)	<0.1 (1.0)	28.6	7.5
Muscidae	0.1 (1.8)	<0.1 (1.0)	14.3	3.2
LEPIDOPTERA				
Pyralidae	0.9 (11.1)	0.1 (6.0)	57.1	13.7
HEMIPTERA				
Mesoveliidae	0.1 (1.8)	<0.1 (1.0)	14.3	3.2
TERRESTRIAL ORGANISMS				
TRICHOPTERA	0.1 (1.8)	<0.1 (1.0)	14.3	3.2
DIPTERA				
Simuliidae	0.1 (1.8)	<0.1 (1.0)	14.3	3.2
HOMOPTERA				
Aphididae	0.4 (5.6)	<0.1 (1.0)	28.6	6.5

Table F.48. June feeding habits of 0+ brook trout (N=7) in upper Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.1 (1.3)	<0.1 (3.8)	14.3	3.8
Rhyacophilidae	0.1 (1.3)	<0.1 (1.3)	14.3	3.3
EPHEMEROPTERA				
Baetidae	0.7 (6.7)	<0.1 (3.8)	28.6	7.6
DIPTERA				
Chironomidae larvae	3.9 (36.0)	<0.1 (1.3)	85.7	23.9
Chironomidae pupae	0.3 (2.7)	<0.1 (1.3)	14.3	3.5
Simuliidae	0.3 (2.7)	<0.1 (1.3)	28.6	6.3
TERRESTRIAL ORGANISMS				
DIPTERA				
Simuliidae	2.6 (24.0)	1.0 (81.0)	14.3	23.2
Unidentified	0.4 (4.00)	0.0 (1.27)	14.29	3.80
HOMOPTERA				
Aphididae	1.9 (17.3)	<0.1 (1.3)	57.1	14.7
Delphacidae	0.1 (1.3)	<0.1 (1.3)	14.3	3.3
LEPIDOPTERA	0.1 (1.3)	<0.1 (1.3)	14.3	3.3
COLLEMBOLA				
Entomobryidae	0.1 (1.3)	<0.1 (1.3)	14.3	3.3

Table F.49. July feeding habits of 0+ brook trout (N=1) in upper Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
DIPTERA				
Chironomidae larvae	3.0(37.5)	0.1 (2.6)	100.0	23.4
TERRESTRIAL ORGANISMS				
DIPTERA				
Unidentified	2.0(25.0)	1.1 (2.6)	100.0	21.3
COLEOPTERA				
Staphylinidae	1.0 (12.5)	2.2 (57.9)	100.0	28.4
HOMOPTERA				
Aphididae	2.0 (25.0)	1.4 (36.8)	100.0	27.0

Table F.50. September feeding habits of 0+ brook trout (N=4) in upper Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.5 (8.3)	0.1 (0.9)	50.0	9.1
EPHEMEROPTERA				
Ephemerellidae	0.2 (4.2)	0.4 (3.7)	25.0	5.1
Baetidae	0.2 (4.2)	0.2 (2.2)	25.0	4.8
Heptageniidae	0.2 (4.2)	0.1 (1.3)	25.0	4.7
DIPTERA				
Chironomidae pupae	0.2 (4.2)	<0.1 (0.2)	25.0	4.5
PLECOPTERA				
Nemouridae	0.7 (12.5)	0.2 (1.7)	25.0	6.0
HYDRACARINA	1.0 (16.7)	0.4 (3.7)	25.0	7.0
UNIDENTIFIED	0.5 (8.3)	0.9 (8.3)	50.0	10.2
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Elmidae adult	0.2 (4.2)	0.4 (3.5)	25.0	5.0
HOMOPTERA				
Aphididae	0.2 (4.2)	0.2 (2.2)	25.0	4.8
HYMENOPTERA				
Formicidae	0.5 (8.3)	0.2 (2.0)	25.0	5.4
ARANEIDA	0.2 (4.2)	0.1 (1.3)	25.0	4.6
LEPIDOPTERA	0.2 (4.2)	0.2 (2.2)	25.0	4.8
OLIGOCHAETA				
Lumbriculidae	0.5 (8.3)	7.2 (63.2)	50.0	18.7
UNIDENTIFIED	0.2 (4.2)	0.4 (3.7)	25.0	5.1

Table F.51. September feeding habits of 0+ brook trout (N=5) in lower Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	1.0 (8.9)	0.5 (1.4)	60.0	11.7
Rhyacophilidae	0.2 (1.8)	0.6 (1.7)	20.0	3.9
Ephemeroptera				
Baetidae	6.0 (53.6)	3.1 (8.7)	100.0	27.0
DIPTERA				
Chironomidae larvae	0.2 (1.8)	0.1 (0.3)	20.0	3.7
PLECOPTERA				
Perlodidae	0.8 (7.1)	1.5 (4.3)	20.0	5.2
Nemouridae	0.2 (1.8)	0.4 (1.1)	20.0	3.8
COLEOPTERA				
Elmidae larvae	1.6 (14.3)	0.7 (2.0)	40.0	9.4
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	0.4 (3.6)	0.4 (1.2)	40.0	7.5
OLIGOCHAETA				
Lumbriculidae	0.2 (1.8)	28.2 (78.1)	20.0	16.6
COLLEMBOLA				
Sminthuridae	0.2 (1.8)	0.1 (0.2)	20.0	3.7
UNIDENTIFIED	0.4 (3.6)	0.4 (1.0)	40.0	7.4

Table F.52. October feeding habits of 0+ brook trout (N=1) in lower Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Brachycentridae	5.0 (38.1)	0.7 (26.9)	100.0	23.6
Ephemeroptera				
Baetidae	3.0 (23.1)	0.4 (15.4)	100.0	19.8
Heptageniidae	2.0 (15.4)	1.2 (46.1)	100.0	23.1
PLECOPTERA				
Nemouridae	2.0 (15.4)	0.2 (7.7)	100.0	17.6
COLEOPTERA				
Elmidae larvae	1.0 (7.7)	0.1 (3.8)	100.0	15.9

Table F.53. October feeding habits of 0+ brook trout (N=6) in upper Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	1.8 (25.0)	0.1 (2.2)	66.7	17.1
Hydroptilidae	1.8 (25.0)	0.2 (3.2)	33.3	11.2
EPHEMEROPTERA				
Ephemereilidae	0.2 (2.3)	0.1 (1.9)	16.7	3.8
DIPTERA				
Chironomidae larvae	0.3 (4.5)	0.3 (5.1)	33.3	7.8
Chironomidae pupae	0.2 (2.3)	0.1 (1.6)	16.7	3.7
Simuliidae	0.2 (2.3)	0.1 (2.2)	16.7	3.8
HYDRACARINA	0.7 (9.1)	0.1 (1.0)	33.3	7.9
OLIGOCHAETA				
Naididae	0.5 (6.8)	<0.1 (0.3)	16.7	4.3
BIVALVIA				
Ancyclidae	0.7 (9.1)	4.3 (81.3)	33.3	22.5
Sphaeriidae	0.2 (2.3)	<0.1 (0.3)	16.7	3.5
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Elmidae adult	0.2 (2.3)	<0.1 (0.3)	16.7	3.5
HYMENOPTERA				
Formicidae	0.3 (4.5)	<0.1 (0.3)	33.3	6.9
COLLEMBOLA				
Sminthuridae	0.3 (4.5)	<0.1 (0.3)	16.7	3.9

Table F.54. March feeding habits of 1+ brook trout (N=4) in lower Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.2 (3.2)	0.2 (4.8)	25.0	6.9
Brachycentridae	5.7 (74.2)	1.1 (30.1)	75.0	37.7
Rhyacophilidae	0.2 (3.2)	0.7 (18.5)	25.0	9.8
EPHEMEROPTERA				
Heptageniidae	0.5 (6.4)	0.6 (15.7)	50.0	15.2
Baetidae	0.2 (3.2)	0.6 (17.8)	25.0	9.7
DIPTERA				
Simuliidae	0.2 (3.2)	0.2 (4.8)	25.0	6.9
LEPIDOPTERA				
Pyalidae	0.2 (3.2)	0.1 (2.7)	25.0	6.5
TERRESTRIAL ORGANISMS				
PLECOPTERA	0.2 (3.2)	0.5 (5.5)	50.0	7.1

Table F.55. April feeding habits of 1+ brook trout (N=4) in lower Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Brachycentridae	0.5 (3.3)	0.1 (0.1)	50.0	7.6
Rhyacophilidae	0.5 (3.3)	0.3 (0.3)	25.0	4.1
EPHEMEROPTERA				
Heptageniidae	0.5 (3.3)	0.2 (0.2)	25.0	4.1
Baetidae	0.5 (3.3)	0.5 (0.4)	50.0	7.7
DIPTERA				
Chironomidae larvae	1.0 (6.6)	0.3 (0.2)	50.0	8.1
Tipulidae	2.5 (16.4)	2.3 (1.8)	50.0	9.7
PLECOPTERA				
Nemouridae	1.0 (6.6)	0.2 (0.1)	50.0	8.1
LEPIDOPTERA				
Pyalidae	5.2 (34.4)	6.1 (4.9)	75.0	16.3
TERRESTRIAL ORGANISMS				
OLIGOCHAETA				
Lumbriculidae	3.2 (21.3)	115.4 (91.8)	100.0	30.4
DIPLOPODA	0.2 (1.6)	0.2 (0.1)	25.0	3.8

Table F.56. April feeding habits of 1+ brook trout (N=4) in upper Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.7 (3.9)	1.6 (1.0)	50.0	5.8
Brachycentridae	1.5 (7.9)	0.4 (0.2)	75.0	8.7
Hydropsychidae	1.0 (5.3)	5.6 (3.5)	75.0	8.8
EPHEMEROPTERA				
Baetidae	1.5 (7.9)	1.5 (0.9)	100.0	11.4
Ephemerellidae	3.0 (15.8)	1.1 (0.7)	75.0	9.6
DIPTERA				
Tipulidae	2.2 (11.8)	2.1 (1.3)	75.0	9.3
Ceratopogonidae	0.5 (2.6)	0.5 (<0.1)	25.0	2.9
PLECOPTERA				
Nemouridae	0.5 (2.6)	0.1 (0.1)	25.0	2.9
COLEOPTERA				
Haliplidae	0.2 (1.3)	1.9 (1.2)	25.0	2.9
Dytiscidae	0.2 (1.3)	0.1 (1.0)	25.0	2.8
LEPIDOPTERA				
Pyrilidae	3.0 (15.8)	3.5 (2.2)	50.0	7.1
TERRESTRIAL ORGANISMS				
OLIGOCHAETA				
Lumbriculidae	4.0 (21.0)	142.1 (88.5)	100.0	22.1
DIPLOPODA	0.5 (2.6)	0.3 (0.2)	50.0	5.6

Table F.57. June feeding habits of 1+ brook trout (N=7) in lower Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (ng) Mean (%)	Occurrence %	 R %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	1.6 (10.3)	0.4 (10.3)	71.4	10.5
Brachycentridae	2.0 (13.1)	0.5 (12.4)	71.4	11.1
Rhyacophilidae	0.4 (2.8)	<0.1 (0.4)	28.6	3.6
Glossosomatidae	0.7 (4.7)	<0.1 (0.4)	42.9	5.5
EPHEMEROPTERA				
Ephemerellidae	0.1 (0.9)	<0.1 (0.4)	14.3	1.8
Heptageniidae	0.1 (0.9)	0.2 (5.9)	14.3	2.4
DIPTERA				
Chironomidae larvae	0.3 (1.9)	<0.1 (0.4)	14.3	1.9
Simuliidae	0.1 (0.9)	<0.1 (0.4)	14.3	1.8
Tipulidae	0.1 (0.9)	<0.1 (0.4)	14.3	1.8
Psychodidae	0.1 (0.9)	<0.1 (0.4)	14.3	1.8
LEPIDOPTERA				
Pyrilidae	2.0 (13.1)	0.4 (11.0)	71.4	11.0
UNIDENTIFIED	0.1 (0.9)	<0.1 (0.4)	14.3	1.8
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Elmidae adult	0.4 (2.8)	<0.1 (0.7)	42.9	5.3
DIPTERA				
Empididae	0.1 (0.9)	1.0 (2.2)	14.3	2.0
Simuliidae	0.1 (0.9)	<0.1 (0.4)	14.3	1.8
HOMOPTERA				
Aphididae	1.4 (9.3)	0.14 (3.7)	57.1	8.0
Cercopidae	0.3 (1.9)	0.03 (0.7)	14.3	1.9
HYMENOPTERA				
Formicidae	0.5 (3.7)	0.1 (10.6)	42.9	6.6
LEPIDOPTERA	0.3 (1.9)	1.0 (25.6)	28.6	6.4
HEMIPTERA				
Miridae	0.1 (0.9)	0.3 (6.6)	14.3	2.5
COLLEMBOLA				
Sminthuridae	2.7 (17.8)	0.1 (2.6)	14.3	4.0
UNIDENTIFIED	1.3 (8.4)	0.2 (4.4)	42.9	6.4

Table F.58. June feeding habits of 1+ brook trout (N=6) in upper Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.2 (0.6)	<0.1 (0.3)	16.7	2.3
Brachycentridae	2.0 (7.4)	0.4 (6.7)	50.0	8.6
EPHEMEROPTERA				
Ephemerellidae	0.5 (1.9)	0.8 (14.9)	33.3	6.7
DIPTERA				
Chironomidae larvae	0.3 (1.2)	<0.1 (0.3)	33.3	4.6
Simuliidae	2.2 (8.1)	0.3 (6.1)	33.3	6.3
HYDRACARINA	3.0 (11.2)	<0.1 (0.3)	33.3	6.0
TERRESTRIAL ORGANISMS				
DIPTERA				
Unidentified	0.5 (1.9)	<0.1 (0.3)	16.7	2.5
COLEOPTERA				
Elmidae adult	0.8 (3.1)	<0.1 (0.6)	66.7	9.4
Curculionidae	0.3 (1.2)	0.1 (2.0)	33.3	4.9
Unidentified	0.2 (0.6)	<0.1 (0.3)	16.7	2.3
HOMOPTERA				
Aphididae	1.8 (6.8)	<0.1 (0.3)	66.7	9.8
Cicadellidae	3.0 (11.2)	<0.1 (0.3)	33.3	6.0
HYMENOPTERA				
Formicidae	0.3 (1.2)	<0.1 (0.3)	33.3	4.6
Ichneumonidae	0.2 (0.6)	<0.1 (0.3)	16.7	2.3
Eulophidae	0.2 (0.6)	<0.1 (0.3)	16.7	2.3
LEPIDOPTERA	0.2 (0.6)	<0.1 (0.3)	16.7	2.3
UNIDENTIFIED	11.2 (41.6)	3.8 (66.3)	33.3	18.8

Table F.59. July feeding habits of 1+ brook trout (N=3) in lower Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Brachycentridae	6.0 (21.2)	0.6 (6.4)	100.0	12.0
Rhyacophilidae	1.7 (5.9)	1.0 (11.1)	66.7	7.8
Hydropsychidae	0.3 (1.2)	0.3 (2.9)	33.3	3.5
Ephemeroptera				
Ephemerellidae	3.3 (11.8)	1.5 (15.8)	66.7	8.8
Baetidae	9.7 (34.1)	1.2 (12.9)	66.7	10.7
Heptageniidae	1.7 (5.9)	1.1 (11.5)	33.3	4.7
DIPTERA				
Chironomidae larvae	0.7 (2.3)	<0.1 (0.4)	33.3	3.4
Simuliidae	0.3 (1.2)	0.1 (1.1)	33.3	3.3
Muscidae	0.3 (1.2)	0.2 (2.5)	33.3	3.5
PLECOPTERA				
Nemouridae	0.3 (1.2)	0.2 (2.1)	33.3	3.4
COLEOPTERA				
Elmidae larvae	0.3 (1.2)	0.3 (2.9)	33.3	3.5
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Elmidae adult	0.3 (1.2)	<0.1 (0.4)	33.3	3.3
Lampyridae	0.3 (1.2)	0.3 (2.9)	33.3	3.5
HOMOPTERA				
Cicadellidae	0.3 (1.2)	<0.1 (0.7)	33.3	3.3
Psyllidae	0.3 (1.2)	0.1 (0.7)	33.3	3.3
HYMENOPTERA				
Formicidae	0.3 (1.2)	0.1 (1.4)	33.3	3.4
Unidentified	0.7 (2.3)	0.7 (7.5)	66.7	7.2
ARANEIDA	0.7 (2.3)	0.2 (2.5)	66.7	6.7
LEPIDOPTERA	0.7 (2.3)	1.3 (14.3)	33.3	4.7

Table F.60. July feeding habits of 1+ brook trout (N=7) in upper Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.1 (1.6)	0.3 (3.7)	14.3	2.9
Brachycentridae	0.4 (4.8)	0.1 (1.0)	28.6	5.0
Rhyacophilidae	0.1 (1.6)	<0.1 (0.1)	14.3	2.3
Hydropsychidae	0.5 (6.4)	0.4 (4.5)	14.3	3.7
Glossosomatidae	0.4 (4.8)	0.5 (5.3)	28.6	5.7
EPHEMEROPTERA				
Ephemerellidae	0.3 (3.2)	0.7 (8.4)	28.6	5.9
Baetidae	1.5 (17.7)	0.5 (5.4)	28.6	7.5
Heptageniidae	0.7 (8.0)	0.3 (3.9)	42.9	8.0
DIPTERA				
Chironomidae larvae	0.4 (4.8)	0.1 (0.7)	28.6	5.0
Simuliidae	1.0 (11.3)	0.3 (4.0)	28.6	6.4
COLEOPTERA				
Elmidae larvae	0.3 (3.2)	0.4 (5.2)	28.6	5.4
HYDRACARINA	0.6 (6.4)	0.5 (5.4)	28.6	5.9
TERRESTRIAL ORGANISMS				
DIPTERA				
Ceratopogonidae	0.1 (1.6)	0.4 (0.5)	14.3	2.4
Unidentified	0.1 (1.6)	0.1 (1.3)	14.3	2.5
COLEOPTERA				
Elmidae adult	0.6 (6.4)	0.9 (11.1)	28.6	6.7
HOMOPTERA				
Aphididae	0.1 (1.6)	0.1 (1.0)	14.3	2.5
Cicadellidae	0.1 (1.6)	0.4 (2.8)	14.3	2.7
HYMENOPTERA				
Formicidae	0.6 (6.4)	1.8 (21.6)	28.6	8.3
Unidentified	0.1 (1.6)	<0.1 (0.2)	14.3	2.3
ARANEIDA	0.1 (1.6)	0.6 (7.4)	14.3	3.4
LEPIDOPTERA	0.1 (1.6)	0.3 (3.02)	14.3	2.8
ODONATA				
Aeshnidae	0.1 (1.6)	0.3 (3.4)	14.3	2.8

Table F.61. September feeding habits of 1+ brook trout (N=2) in lower Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	1.5 (11.1)	0.2 (5.0)	100.0	21.1
Glossosomatidae	3.5 (25.9)	0.5 (10.1)	50.0	15.6
EPHEMEROPTERA				
Baetidae	7.0 (51.8)	3.4 (68.7)	100.0	40.1
HYDRACARINA	1.0 (7.4)	0.1 (3.0)	50.0	11.0
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Elmidae adult	0.5 (3.7)	0.6 (13.1)	50.0	12.1

Table F.62. September feeding habits of 1+ brook trout (N=4) in upper Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Hydropsychidae	0.2 (1.3)	0.3 (1.9)	25.0	3.0
EPHEMEROPTERA				
Baetidae	1.0 (5.4)	0.6 (3.9)	75.0	9.1
DIPTERA				
Chironomidae larvae	1.0 (5.1)	0.1 (0.8)	50.0	6.1
Ceratopogonidae	0.2 (1.3)	0.3 (1.7)	25.0	3.0
Tabanidae	0.2 (1.3)	1.2 (7.7)	25.0	3.7
PLECOPTERA				
Perlodidae	0.2 (1.3)	0.3 (1.7)	25.0	3.0
Nemouridae	0.5 (2.7)	0.1 (0.9)	25.0	3.1
TERRESTRIAL ORGANISMS				
DIPTERA				
Chironomidae	0.7 (4.0)	0.3 (2.2)	25.0	3.4
COLEOPTERA				
Elmidae adult	0.7 (4.0)	0.5 (3.3)	75.0	8.9
HOMOPTERA				
Aphididae	1.5 (8.1)	0.3 (2.2)	25.0	3.8
Psyllidae	2.5 (13.5)	0.9 (5.7)	50.0	7.5
Cicadellidae	0.2 (1.3)	0.6 (3.8)	25.0	3.3
HYMENOPTERA				
Formicidae	5.5 (29.7)	3.9 (24.8)	100.0	16.7
Apidae	0.2 (1.3)	4.8 (19.)	25.0	6.2
ARANEIDA	0.2 (1.3)	0.2 (1.1)	25.0	3.0
HEMIPTERA				
Miridae	0.2 (1.3)	0.2 (1.3)	25.0	3.0
UNIDENTIFIED	3.0 (16.2)	0.9 (6.0)	100.0	13.2

**Table F.63 October feeding habits of 1+ brook trout
(N=6) in lower Ruby Creek for 1989.**

PREY ITEMS	Number Mean (%)	Weight (ng) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.2 (3.8)	<0.1 (<0.1)	16.7	3.6
Brachycentridae	0.2 (3.8)	0.2 (0.2)	16.7	3.7
EPTHEMEROPTERA				
Ephemereilidae	0.2 (3.8)	0.3 (0.3)	16.7	3.7
Baetidae	0.2 (3.8)	0.1 (0.1)	16.7	3.6
DIPTERA				
Chironomidae larvae	0.2 (3.8)	0.1 (0.1)	16.7	3.6
Simuliidae	0.5 (11.5)	0.2 (0.2)	33.3	8.0
Tipulidae	0.3 (7.7)	0.7 (0.7)	16.7	4.4
Ceratopogonidae	0.2 (3.8)	0.2 (0.2)	16.7	3.6
PLECOPTERA				
Nemouridae	0.3 (7.7)	0.1 (0.1)	33.3	7.3
COLEOPTERA				
Elmidae larvae	0.2 (3.8)	<0.1 (<0.1)	16.7	3.6
Hydrophilidae	0.3 (7.7)	<0.1 (<0.1)	33.3	7.2
TERRESTRIAL ORGANISMS				
DIPTERA				
Unidentified	0.7 (15.4)	0.7 (0.7)	33.3	8.7
HYMENOPTERA				
Formicidae	0.2 (3.8)	0.3 (0.3)	16.7	3.7
OLIGOCHAETA				
Lunbriculidae	0.5 (11.5)	97.2 (96.4)	50.0	27.9
COLLEMBOLA				
Sminthuridae	0.2 (3.8)	0.1 (0.1)	16.7	3.6
UNIDENTIFIED	0.2 (3.8)	0.5 (0.5)	16.7	3.7

Table F.64. October feeding habits of 1+ brook trout (N=5) in upper Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (ng) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Hydroptilidae	0.2 (4.0)	<0.1 (0.2)	20.0	5.5
EPHEMEROPTERA				
Ephemerellidae	0.8 (16.0)	<0.1 (0.2)	40.0	12.8
DIPTERA				
Chironomidae larvae	0.8 (16.0)	<0.1 (0.2)	20.0	8.2
Tipulidae	0.2 (4.0)	1.0 (12.6)	20.0	8.3
COLEOPTERA				
Hydrophilidae	0.6 (12.0)	<0.1 (0.2)	20.0	7.3
OLIGOCHAETA				
Naididae	0.6 (12.0)	0.1 (0.7)	40.0	12.0
BIVALVIA				
Ancyclidae	1.2 (24.0)	7.0 (85.2)	40.0	33.9
TERRESTRIAL ORGANISMS				
DIPTERA				
Unidentified	0.2 (4.0)	<0.1 (0.2)	20.0	5.5
ARANEIDA	0.4 (8.0)	<0.1 (0.2)	20.0	6.4

Table F.65. March feeding habits of 2+ brook trout (N=4) in lower Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	1.0 (8.2)	1.1 (10.7)	50.0	10.2
Brachycentridae	7.0 (57.1)	1.5 (14.5)	75.0	21.7
Rhyacophilidae	0.2 (2.0)	0.2 (1.7)	25.0	4.2
Unidentified pupae	0.2 (2.0)	2.2 (21.2)	25.0	7.1
EPHEMEROPTERA				
Baetidae	0.5 (4.1)	0.6 (6.2)	25.0	5.2
DIPTERA				
Chironomidae larvae	1.2 (10.2)	0.3 (2.6)	75.0	13.0
Chironomidae pupae	0.2 (2.0)	<0.1 (0.2)	25.0	4.0
Tipulidae	0.2 (2.0)	0.5 (4.5)	25.0	4.7
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Elmidae adult	0.5 (4.1)	2.0 (19.1)	50.0	10.8
PLECOPTERA	0.5 (4.1)	0.5 (5.0)	50.0	8.7
OLIGOCHAETA				
Lumbriculidae	0.2 (2.0)	1.0 (9.8)	25.0	5.5
ARANEIDA	0.2 (2.0)	0.4 (4.3)	25.0	4.6

Table F.66 April feeding habits of 2+ brook trout (N=1) in lower Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	2.0 (10.0)	6.5 (11.4)	100.0	13.5
DIPTERA				
Chironomidae larvae	9.0 (45.0)	3.6 (6.3)	100.0	16.8
Tipulidae	1.0 (5.0)	0.6 (1.0)	100.0	11.8
GASTROPODA				
Planorbidae	2.0 (10.0)	0.6 (1.0)	100.0	12.3
LEPIDOPTERA				
Pyalidae	2.0 (10.0)	7.5 (13.1)	100.0	13.7
TERRESTRIAL ORGANISMS				
OLIGOCHAETA				
Lumbriculidae	3.0 (15.0)	0.3 (0.5)	100.0	12.8
ODONATA				
Aeshnidae	1.0 (5.0)	38.0 (66.5)	100.0	19.1

Table F.67. June feeding habits of 2+ brook trout (N=2) in lower Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (ng) Mean (%)	occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	2.5 (13.5)	2.6 (2.0)	100.0	10.5
Brachycentridae	1.5 (8.1)	0.1 (<0.1)	50.0	5.3
Hydropsychidae	0.5 (2.7)	1.8 (1.4)	50.0	4.9
Glossosomatidae	0.5 (2.7)	0.1 (<0.1)	50.0	4.8
DIPTERA				
Simuliidae	0.5 (2.7)	0.1 (<0.1)	50.0	4.8
LEPIDOPTERA				
Pyralidae	1.0 (5.4)	4.7 (3.6)	50.0	5.4
TERRESTRIAL ORGANISMS				
PLECOPTERA	0.5 (2.7)	6.9 (5.4)	50.0	5.3
COLEOPTERA				
Elmidae adult	0.5 (2.7)	0.2 (0.1)	50.0	4.8
Chrysomelidae	0.5 (2.7)	0.6 (0.5)	50.0	4.8
HOMOPTERA				
Aphididae	1.5 (8.1)	0.1 (<0.1)	50.0	5.3
HYMENOPTERA				
Formicidae	0.5 (2.7)	1.1 (0.8)	50.0	4.9
Ichneumonidae	0.5 (2.7)	1.4 (1.1)	50.0	4.9
ARANEIDA	1.0 (5.4)	4.5 (3.5)	50.0	12.5
HEMIPTERA				
Unidentified	0.5 (2.7)	1.5 (1.2)	50.0	4.9
COLLEMBOLA				
Sminthuridae	0.5 (2.7)	0.1 (<0.1)	50.0	4.8
UNIDENTIFIED	4.5 (24.3)	0.8 (0.6)	50.0	6.8

Table F.68. June feeding habits of 2+ brook trout (N=2) in upper Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI I % I
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.5 (3.7)	0.1 (0.1)	50.0	5.4
Brachycentridae	1.5 (11.1)	0.1 (0.1)	100.0	11.1
EPHEMEROPTERA				
Baetidae	1.5 (11.1)	3.0 (8.0)	50.0	6.9
DIPTERA				
Chironomidae larvae	0.5 (3.7)	0.1 (0.1)	50.0	5.4
HYDRACARINA	0.5 (3.7)	5.0 (13.4)	50.0	6.7
TERRESTRIAL ORGANISMS				
DIPTERA				
Simuliidae	0.5 (3.7)	0.1 (0.1)	50.0	5.4
COLEOPTERA				
Elnidae adult	0.5 (3.7)	7.3 (19.7)	50.0	7.3
Curculionidae	1.0 (7.4)	0.1 (0.1)	50.0	5.7
Chrysomelidae	0.5 (3.7)	0.1 (0.1)	50.0	5.4
Elateridae	0.5 (3.7)	1.5 (4.0)	50.0	5.8
HOMOPTERA				
Aphididae	2.5 (18.5)	7.4 (20.0)	100.0	13.8
Cicadellidae	0.5 (3.7)	12.3 (33.1)	50.0	8.7
COLLEMBOLA				
Sminthuridae	1.5 (11.1)	0.2 (0.7)	50.0	6.2
UNIDENTIFIED	1.5 (11.1)	0.1 (0.1)	50.0	6.1

Table F.69. July feeding habits of 2+ brook trout (N=5) in lower Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.4 (1.2)	1.5 (4.5)	40.0	2.8
Brachycentridae	0.6 (1.8)	0.3 (0.9)	60.0	3.8
Rhyacophilidae	0.8 (2.4)	0.3 (0.8)	40.0	2.6
Hydropsychidae	0.4 (1.2)	0.4 (1.1)	20.0	1.4
Glossosomatidae	0.8 (2.4)	0.3 (0.8)	60.0	3.9
EPHEMEROPTERA				
Baetidae	0.2 (0.6)	<0.1 (0.1)	20.0	1.3
Heptageniidae	0.2 (0.6)	0.6 (1.8)	20.0	1.4
DIPTERA				
Chironomidae larvae	0.2 (0.6)	<0.1 (0.1)	20.0	1.3
Simuliidae	0.2 (0.6)	0.1 (0.2)	20.0	1.3
COLEOPTERA				
Dytiscidae	0.2 (0.6)	<0.1 (0.1)	20.0	1.3
HYDRACARINA	0.4 (1.2)	0.1 (0.3)	20.0	1.3
LEPIDOPTERA				
Pyralidae	0.4 (1.2)	0.1 (0.4)	40.0	2.5
NEMATODA	0.2 (0.6)	<0.1 (0.1)	20.0	1.3
TERRESTRIAL ORGANISMS				
TRICHOPTERA	0.4 (1.2)	0.1 (0.4)	20.0	1.3
DIPTERA				
Mycetophilidae	1.0 (3.0)	0.1 (0.4)	20.0	1.4
Empididae	1.4 (4.2)	0.5 (1.5)	20.0	1.6
Sciaridae	0.6 (1.8)	<0.1 (0.1)	40.0	2.6
Chironomidae	0.2 (0.6)	0.1 (0.2)	20.0	1.3
Tabanidae	0.2 (0.6)	0.2 (0.5)	20.0	1.3
Unidentified	1.8 (5.4)	0.1 (0.4)	40.0	2.8
COLEOPTERA				
Elmidae adult	0.4 (1.2)	0.1 (0.4)	40.0	2.5
Buprestidae	0.2 (0.6)	0.1 (0.3)	20.0	1.3
Carabidae	0.4 (1.2)	1.8 (5.4)	40.0	2.8
Cerambycidae	0.2 (0.6)	2.9 (8.7)	20.0	1.3
Curculionidae	0.2 (0.6)	0.2 (0.5)	20.0	1.3
Chrysomelidae	0.6 (1.8)	4.4 (13.1)	40.0	3.3
Cantharidae	0.6 (1.8)	3.7 (11.1)	40.0	3.2
Elateridae	0.4 (1.2)	1.8 (5.4)	40.0	2.8
Lathridiidae	0.4 (1.2)	0.5 (1.5)	20.0	1.4
Leiodidae	0.2 (0.6)	0.3 (0.8)	20.0	1.3
Pselaphidae	0.2 (0.6)	0.4 (1.2)	20.0	1.3
Staphylinidae	1.6 (4.8)	0.2 (0.6)	40.0	2.8
Unidentified	0.4 (1.2)	0.6 (1.7)	20.0	1.4

Table G.69. cont.

HOMOPTERA				
Aphididae	2.8 (8.3)	0.7 (2.1)	40.0	3.1
Cicadellidae	1.2 (3.6)	0.3 (0.8)	60.0	3.9
HYMENOPTERA				
Formicidae	4.4 (13.2)	2.5 (7.5)	60.0	4.9
Ichneumonidae	1.2 (3.6)	0.9 (2.8)	40.0	2.8
Braconidae	0.8 (2.4)	0.1 (0.3)	20.0	1.4
Sphoridae	0.4 (1.2)	0.4 (1.1)	20.0	1.4
Unidentified	1.2 (3.6)	0.9 (2.6)	40.0	2.8
ARANEIDA	1.2 (3.6)	1.4 (4.4)	40.0	2.9
HEMIPTERA				
Miridae	1.4 (4.2)	0.9 (2.6)	60.0	4.1
Nabidae	0.2 (0.6)	0.2 (0.8)	20.0	1.3
COLLEMBOLA				
Sminthuridae	1.0 (3.0)	0.1 (0.4)	40.0	2.6
NEUROPTERA				
Chrysopidae	0.2 (0.6)	0.2 (0.7)	20.0	1.3
UNIDENTIFIED	1.0 (3.0)	2.9 (8.6)	20.0	1.9

Table F.70. July feeding habits of 2+ brook trout (N=4) in upper Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	1.7 (28.0)	1.3 (22.9)	50.0	18.3
Glossosomatidae	1.2 (20.0)	0.2 (4.4)	50.0	13.5
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Elmidae adult	0.7 (12.0)	0.3 (5.3)	50.0	12.2
Carabidae	0.2 (4.0)	0.8 (13.7)	25.0	7.7
Staphylinidae	0.2 (4.0)	0.8 (1.3)	25.0	5.5
HYMENOPTERA				
Formicidae	0.5 (8.0)	1.8 (31.3)	25.0	11.7
ARANEIDA	0.2 (4.0)	0.5 (8.4)	25.0	6.8
UNIDENTIFIED	1.2 (20.0)	0.7 (12.8)	100.0	24.1

Table F.71. September feeding habits of 2+ brook trout (N=4) in lower Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	I 0.2 (2.6)	0.1 (0.2)	25.00	5.0
Glossosomatidae	0.2 (2.6)	0.1 (0.2)	25.00	5.0
EPHEMEROPTERA				
Baetidae	1.2 (12.8)	0.8 (1.3)	50.00	11.6
TERRESTRIAL ORGANISMS				
DIPTERA				
Unidentified	0.2 (2.6)	0.5 (0.78)	25.0	5.1
COLEOPTERA				
Chrysomelidae	0.5 (5.1)	0.3 (0.5)	50.0	10.1
HYMENOPTERA				
Formicidae	6.2 (64.1)	13.6 (21.2)	75.0	29.1
Ichneumonidae	0.2 (2.6)	0.3 (0.5)	25.0	5.1
LEPIDOPTERA	0.2 (2.6)	0.7 (1.2)	25.0	5.2
OLIGOCHAETA				
Lumbriculidae	0.2 (2.6)	47.2 (73.4)	25.0	18.4
COLLEMBOLA				
Sminthuridae	0.2 (2.6)	0.5 (0.8)	25.0	5.2

Table F.72. September feeding habits of 2+ brook trout (N=5) in upper Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Hydropsychidae	0.2 (1.1)	0.9 (1.3)	20.0	2.7
Unidentified pupae	0.2 (1.1)	2.4 (3.5)	20.0	2.9
EPTHEMEROPTERA				
Baetidae	2.8 (15.7)	1.2 (1.8)	80.0	11.6
DIPTERA				
Chironomidae larvae	0.2 (1.1)	0.4 (0.6)	20.0	2.6
Tipulidae	0.2 (1.1)	3.4 (5.0)	20.0	3.1
PLECOPTERA				
Perlodidae	0.2 (1.1)	0.2 (0.3)	20.0	2.5
Nemouridae	3.6 (20.2)	0.5 (0.8)	80.0	12.0
COLEOPTERA				
Dytiscidae	0.4 (2.2)	0.3 (0.4)	20.0	2.7
HYDRACARINA	0.2 (1.1)	0.1 (0.2)	20.0	2.5
OSTEICHTHYES				
Cottidae	0.2 (1.1)	50.6 (74.4)	20.0	11.4
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Elmidae adult	1.0 (5.6)	0.3 (0.5)	40.0	5.5
Chrysomelidae	0.2 (1.1)	0.3 (0.5)	20.0	2.6
HOMOPTERA				
Aphididae	0.2 (1.1)	0.1 (0.2)	20.0	2.5
Psyllidae	0.2 (1.1)	0.3 (0.4)	20.0	2.6
HYMENOPTERA				
Formicidae	6.4 (36.0)	3.7 (5.5)	100.0	16.8
Diapriidae	0.4 (2.2)	0.3 (0.5)	40.0	5.1
ARANEIDA	0.2 (1.1)	1.5 (2.3)	20.	2.7
LEPIDOPTERA	0.2 (1.1)	0.2 (0.3)	20.0	2.5
UNIDENTIFIED	0.8 (4.5)	0.9 (1.3)	40.0	5.4

Table F.73. October feeding habits of 2+ brook trout (N=3) in lower Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (ng) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.3 (12.5)	1.1 (11.8)	33.3	12.3
Rhyacophilidae	0.3 (12.5)	0.4 (4.4)	33.3	10.8
Hydropsychidae	0.3 (12.5)	0.3 (3.7)	33.3	10.6
EPTHEMEROPTERA				
Heptageniidae	0.3 (12.5)	0.4 (4.0)	33.3	10.7
COLEOPTERA				
Hydrophilidae	0.3 (12.5)	0.53 (5.9)	33.3	11.1
TERRESTRIAL ORGANISMS				
OLIGOCHAETA				
Lumbriculidae	0.7 (25.0)	5.5 (60.7)	66.7	32.6
UNIDENTIFIED	0.3 (12.5)	0.9 (9.6)	33.3	11.9

Table F.74. October feeding habits of 2+ brook trout (N=3) in upper Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (ng) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.3 (14.3)	<0.1 (1.6)	33.3	12.3
Rhyacophilidae	1.0 (42.9)	1.1 (52.4)	66.7	40.5
COLEOPTERA				
Hydrophilidae	0.3 (14.3)	0.1 (4.8)	33.3	13.1
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	0.3 (14.3)	0.3 (14.3)	33.3	15.5
UNIDENTIFIED	0.3 (14.3)	0.6 (137.0)	33.3	18.6

Table F.75. June feeding habits of 3+ brook trout (N=4) in lower Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	2.7 (8.5)	6.3 (3.5)	100.0	7.1
Brachycentridae	0.7 (2.3)	0.2 (0.1)	25.0	1.7
Rhyacophilidae	0.7 (2.3)	7.3 (4.1)	75.0	5.2
Hydropsychidae	1.0 (3.1)	7.1 (3.9)	50.0	3.6
Pupae	0.2 (0.8)	<0.1 (0.01)	25.0	1.64
EPHEMEROPTERA				
Ephemerellidae	0.5 (1.5)	<0.1 (<0.1)	25.0	1.7
Baetidae	0.2 (0.8)	2.6 (1.4)	25.0	1.7
DIPTERA				
Chironomidae larvae	0.2 (0.8)	<0.1 (<0.1)	25.0	1.6
Simuliidae	0.5 (1.5)	<0.1 (<0.1)	25.0	1.7
Tipulidae	0.2 (0.8)	0.9 (0.5)	25.0	1.7
ODONATA				
Aeshnidae	0.2 (0.8)	19.6 (10.9)	25.0	2.3
TERRESTRIAL ORGANISMS				
DIPTERA				
Mycetophilidae	0.2 (0.8)	<0.1 (<0.1)	25.0	1.6
Tabanidae	0.2 (0.8)	6.1 (3.4)	25.0	1.8
COLEOPTERA				
Elmidae adult	1.0 (3.1)	7.1 (4.0)	75.0	5.2
Chrysomelidae	1.2 (3.9)	7.0 (3.9)	75.0	5.3
Cantharidae	1.0 (3.1)	6.6 (3.7)	50.0	3.6
Lampyridae	1.0 (3.1)	<0.1 (<0.1)	50.0	3.4
Tenebrionidae	0.2 (0.8)	10.1 (5.6)	25.0	2.0
Unidentified	0.5 (1.5)	4.3 (2.4)	25.0	1.8
HOMOPTERA				
Aphididae	1.7 (5.4)	11.1 (6.20)	75.0	5.5
Cicadellidae	0.5 (1.5)	3.3 (1.87)	50.0	3.4
Cercopidae	0.2 (0.8)	12.8 (7.1)	25.0	2.1
HYMENOPTERA				
Formicidae	2.7 (8.5)	3.1 (1.7)	100.0	7.0
Ichneumonidae	0.2 (0.8)	6.8 (3.8)	25.0	1.88
Vespidae	0.2 (0.8)	24.5 (13.6)	25.0	2.50
Unidentified	0.7 (2.3)	12.1 (6.8)	50.0	3.75
ARANEIDA	0.5 (1.5)	3.9 (2.2)	50.0	3.41
LEPIDOPTERA	8.2 (25.6)	<0.1 (<0.1)	100.0	7.97
COLLEMBOLA				
Sminthuridae	1.5 (4.6)	7.5 (4.2)	50.0	3.7
UNIDENTIFIED	2.5 (7.7)	8.6 (4.8)	50.0	4.0

Table F.76. July feeding habits of 3+ brook trout (N=2) in upper Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	4.5 (15.8)	0.1 (0.2)	100.0	8.6
Brachycentridae	0.5 (1.7)	0.1 (0.2)	50.0	3.8
Rhyacophilidae	0.5 (1.7)	0.1 (0.2)	50.0	3.8
Glossosomatidae	1.0 (3.5)	0.1 (0.2)	50.0	4.0
DIPTERA				
Chironomidae larvae	1.0 (3.5)	0.1 (0.2)	50.0	4.0
TERRESTRIAL ORGANISMS				
TRICHOPTERA	0.5 (1.7)	0.1 (0.2)	50.0	3.8
DIPTERA				
Mycetophilidae	1.5 (5.3)	1.2 (4.4)	50.0	4.4
Psychodidae	2.0 (7.0)	0.1 (0.2)	50.0	4.2
Unidentified	1.0 (3.5)	0.1 (0.2)	50.0	4.0
COLEOPTERA				
Chrysomelidae	0.5 (1.7)	0.1 (0.2)	50.0	3.8
Elateridae	0.5 (1.7)	1.2 (4.3)	50.0	4.1
Endomychidae	0.5 (1.7)	0.3 (1.2)	50.0	3.9
Lathridiidae	0.5 (1.7)	14.5 (51.5)	50.0	7.6
HOMOPTERA				
Cicadellidae	1.0 (3.5)	1.3 (4.6)	50.0	4.3
HYMENOPTERA				
Formicidae	8.5 (29.8)	6.5 (23.1)	100.0	11.3
Ichneumonidae	0.5 (1.7)	1.5 (5.3)	50.0	4.2
Braconidae	1.0 (3.5)	0.5 (0.2)	50.0	4.0
Diapriidae	0.5 (1.7)	0.6 (2.1)	50.0	4.0
ARANEIDA	0.5 (1.7)	0.1 (0.2)	50.0	3.8
LEPIDOPTERA	1.0 (3.5)	0.1 (0.2)	50.0	4.0
ACARINA	1.0 (3.5)	0.3 (1.2)	50.0	4.1

Table F.77. September feeding habits of 0+ brown trout (N=3) in lower Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.3 (3.4)	0.4 (12.1)	33.3	11.3
EPHEMEROPTERA				
Baetidae	7.3 (75.9)	1.7 (51.5)	66.7	44.8
DIPTERA				
Simuliidae	0.7 (6.9)	0.1 (4.0)	66.7	17.9
COLEOPTERA				
Elmidae larvae	1.0 (10.3)	0.6 (17.2)	33.3	14.0
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Elmidae adult	0.3 (3.4)	0.5 (15.1)	33.3	12.0

Table F.78. June feeding habits of 1+ brown trout (N=1) in lower Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	1.0 (7.1)	0.1 (2.1)	100.0	10.9
Rhyacophilidae	1.0 (7.1)	1.9 (40.4)	100.0	14.8
EPHEMEROPTERA				
Baetidae	2.0 (14.3)	0.2 (4.3)	100.0	11.8
Heptageniidae	6.0 (42.9)	1.5 (31.9)	100.0	17.5
DIPTERA				
Chironomidae larvae	1.0 (7.1)	0.1 (2.1)	100.0	10.9
Simuliidae	1.0 (7.1)	0.1 (2.1)	100.0	10.9
COLEOPTERA				
Elmidae adult	1.0 (7.1)	0.1 (2.1)	100.0	10.9
TERRESTRIAL ORGANISMS				
EPHEMEROPTERA	1.0 (7.1)	0.7 (15.0)	100.0	12.2

Table F.79. July feeding habits of 1+ brown trout (N=1) in lower Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Brachycentridae	3.0 (4.8)	2.8 (5.5)	100.0	15.7
Rhyacophilidae	1.0 (1.6)	3.8 (7.4)	100.0	15.6
Hydropsychidae	5.0 (7.9)	6.1 (11.9)	100.0	17.1
EPHEMEROPTERA				
Heptagenidae	51.0 (80.9)	35.5 (69.3)	100.0	35.8
DIPTERA				
Simuliidae	3.0 (4.8)	3.0 (5.9)	100.0	15.8

Table F.80. September feeding habits of 1+ brown trout (N=1) in lower Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Chrysomelidae	1.0 (33.3)	2.7 (12.9)	100.0	29.2
Curculionidae	1.0 (33.3)	15.8 (75.6)	100.0	41.8
HYMENOPTERA				
Formicidae	1.0 (33.3)	2.4 (11.5)	100.0	29.0

Table F.81. October feeding habits of 1+ brown trout (N=1) in lower Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Rhyacophilidae	1.0 (3.6)	0.6 (2.0)	100.0	17.6
EPHEMEROPTERA				
Baetidae	2.0 (7.1)	0.3 (1.0)	100.0	18.0
Heptageniidae	22.0 (78.6)	8.9 (30.5)	100.0	34.8
PLECOPTERA				
Perlodidae	3.0 (10.7)	19.4 (66.4)	100.0	29.5

Table F.82. March feeding habits of 2+ brown trout (N=1) in lower Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	2.0 (50.0)	3. (33.6)	100.0	36.7
Rhyacophilidae	1.0 (25.0)	2.5 (21.5)	100.0	29.3
PLECOPTERA				
Perlodidae	1.0 (25.0)	5.2 (44.8)	100.0	34.0

Table F.83. July feeding habits of 3+ brown trout (N=1) in lower Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	5.0 (19.2)	18.4 (14.6)	100.0	8.9
Hydropsychidae	1.0 (3.8)	2.6 (2.1)	100.0	7.0
Glossosomatidae	1.0 (3.8)	1.4 (1.1)	100.0	7.0
COLEOPTERA				
Halplidae	1.0 (3.8)	1.5 (1.2)	100.0	7.0
TERRESTRIAL ORGANISMS				
PLECOPTERA	1.0 (3.8)	1.6 (1.3)	100.0	7.0
DIPTERA				
Empididae	2.0 (7.7)	22.7 (18.0)	100.0	8.4
COLEOPTERA				
Buprestidae	1.0 (3.8)	4.5 (3.6)	100.0	7.2
Cerambycidae	1.0 (3.8)	21.7 (17.2)	100.0	8.1
HOMOPTERA				
Cicadellidae	1.0 (3.8)	0.1 (0.1)	100.0	6.9
HYMENOPTERA				
Formicidae	6.0 (23.1)	21.4 (16.9)	100.0	9.3
ARANEIDA	1.0 (3.8)	2.2 (1.7)	100.0	7.0
LEPIDOPTERA	3.0 (11.5)	14.5 (11.5)	100.0	8.2
UNIDENTIFIED	2.0 (7.7)	13.8 (10.9)	100.0	7.9

Table F.84. March feeding habits of 1+ cutthroat trout (N=2) in lower Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (ng) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Brachycentridae	2.0 (57.1)	3.3 (64.7)	100.0	63.4
PLECOPTERA				
Nemouridae	1.5 (42.9)	1.8 (35.3)	50.0	36.6

Table F.85. June feeding habits of 1+ cutthroat trout (N=1) in upper Ruby Creek for 1989.

Occurrence % PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)		
AQUATIC ORGANISMS				
EPHEMEROPTERA				
EphemereUidae	1.0 (16.7)	11.8 (58.1)	100.0	21.8
DIPTERA				
Simuliidae	1.0 (16.7)	0.1 (0.5)	100.0	14.6
TERRESTRIAL ORGANISMS				
TRICHOPTERA	1.0 (16.7)	0.1 (0.5)	100.0	14.6
COLEOPTERA				
Cerambycidae	1.0 (16.7)	0.5 (2.5)	100.0	14.9
HYMENOPTERA				
Vespidae	1.0 (16.7)	7.7 (37.9)	100.0	19.3
HEMiptera				
Miridae	1.0 (16.7)	0.1 (0.5)	100.0	14.6

Table F.86. July feeding habits of 1+ cutthroat trout (N=1) in lower Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
EPHEMEROPTERA				
Baetidae	1.0 (11.1)	3.2 (30.5)	100.0	15.7
DIPTERA				
Chironomidae larvae	2.0 (22.2)	0.6 (5.7)	100.0	14.2
TERRESTRIAL ORGANISMS				
DIPTERA				
Psychodidae	1.0 (11.1)	1.7 (16.2)	100.0	14.1
COLEOPTERA				
Carabidae	1.0 (1.1)	2.6 (24.8)	100.0	15.1
Lathridiidae	1.0 (1.1)	0.1 (0.9)	100.0	12.4
HYMENOPTERA				
Formicidae	2.0 (22.2)	0.9 (8.6)	100.0	14.5
NEUROPTERA				
Chrysopidae	1.0 (11.1)	1.4 (13.3)	100.0	13.8

Table F.87. April feeding habits of 2+ cutthroat trout (N=1) in lower Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
EPHEMEROPTERA				
Baetidae	1.0 (2.8)	0.9 (0.2)	100.0	9.4
DIPTERA				
Chironomidae larvae	4.0 (11.1)	0.2 (0.1)	100.0	10.1
Ceratopogonidae	1.0 (2.8)	1.3 (0.3)	100.0	9.4
Syrphidae	2.0 (5.6)	6.3 (1.5)	100.0	9.7
PLECOPTERA				
Perlodidae	1.0 (2.8)	361.9 (88.3)	100.0	17.4
Nemouridae	1.0 (2.8)	0.1 (<0.1)	100.0	9.3
COLEOPTERA				
Elmidae larvae	6.0 (16.7)	6.8 (1.7)	100.0	10.8
LEPIDOPTERA				
Pyralidae	10.0 (27.8)	31.9 (7.8)	100.0	12.3
TERRESTRIAL ORGANISMS				
OLIGOCHAETA				
Lumbriculidae	10.0 (27.8)	<0.1 (0.7)	100.0	11.6

Table F.88. July feeding habits of 2+ cutthroat trout (N=2) in lower Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	1.0 (7.7)	2.4 (3.5)	50.0	8.2
DIPTERA				
Simuliidae	0.5 (3.8)	1.1 (1.6)	50.0	7.4
Muscidae	0.5 (3.8)	0.1 (0.1)	50.0	7.2
PLECOPTERA				
Unidentified	0.5 (3.8)	12.7 (18.1)	50.0	9.6
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Cerambycidae	0.5 (3.8)	4.6 (6.5)	50.0	8.0
HOMOPTERA				
Cicadellidae	0.5 (3.8)	0.1 (0.1)	50.0	7.2
HYMENOPTERA				
Formicidae	5.5 (42.3)	8.9 (12.7)	100.0	20.7
Ichneumonidae	0.5 (3.8)	12.1 (17.2)	50.0	9.5
LEPIDOPTERA	3.0 (23.1)	28.1 (40.0)	50.0	15.1
NEUROPTERA				
Chrysopidae	0.5 (3.8)	0.5 (0.1)	50.0	7.2

Table F.89. September feeding habits of 2+ cutthroat trout (N=1) in lower Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Unidentified pupae	1.0 (5.3)	1.8 (17.3)	100.0	17.5
EPHEMEROPTERA				
Baetidae	5.0 (26.3)	1.8 (17.3)	100.0	20.5
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Elmidae adult	1.0 (5.3)	1.9 (18.3)	100.0	17.6
HOMOPTERA				
Psyllidae	9.0 (47.4)	2.9 (27.9)	100.0	25.0
UNIDENTIFIED	3.0 (15.8)	2.0 (19.2)	100.0	19.3

Table F.90. March feeding habits of 3+ cutthroat trout (N=1) in lower Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Rhyacophilidae	2.0 (40.0)	1.8 (6.2)	100.0	24.4
DIPTERA				
Tipulidae	1.0 (20.0)	5.7 (19.6)	100.0	23.3
PLECOPTERA				
Perlodidae	1.0 (20.0)	11.2 (38.5)	100.0	26.4
TERRESTRIAL ORGANISMS				
OLIGOCHAETA				
Lumbriculidae	1.0 (20.0)	10.4 (35.7)	100.0	26.0

Table F.91. July feeding habits of 1+ rainbow trout (N=2) in lower Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Brachycentridae	3.5 (20.6)	0.8 (11.1)	100.0	13.9
Rhyacophilidae	0.5 (2.9)	0.6 (9.0)	50.0	6.5
Hydropsychidae	0.5 (2.9)	0.1 (2.1)	50.0	5.8
EPHEMEROPTERA				
Baetidae	2.5 (14.7)	1.0 (13.9)	100.0	13.5
Heptageniidae	4.5 (26.5)	1.2 (16.7)	100.0	15.1
DIPTERA				
Simuliidae	2.5 (14.7)	0.9 (12.5)	50.0	8.1
PLECOPTERA				
Nemouridae	1.0 (5.9)	0.3 (4.9)	100.0	11.7
COLEOPTERA				
Elmidae adult	0.5 (2.9)	0.4 (6.2)	50.0	6.2
LEPIDOPTERA				
Pyalidae	0.5 (2.9)	0.1 (0.7)	50.0	5.6
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Elmidae adult	0.5 (2.9)	0.4 (6.2)	50.0	6.2
HYMENOPTERA				
Unidentified	0.5 (2.9)	0.6 (8.3)	50.0	6.4
ARANEIDA	0.5 (2.9)	1.0 (14.6)	50.0	7.1

Table F.92. June feeding habits of 2+ rainbow trout (N=3) in lower Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	1.0 (6.5)	<0.1 (0.2)	66.7	7.9
Brachycentridae	3.0 (19.6)	<0.1 (0.2)	66.7	9.3
Unidentified pupae	0.3 (2.2)	0.3 (1.6)	33.3	4.0
Ephemeroptera				
Ephemerellidae	2.0 (13.0)	3.6 (20.9)	66.7	10.8
Heptageniidae	1.0 (6.5)	<0.1 (0.2)	100.0	11.4
DIPTERA				
Simuliidae	0.3 (2.2)	<0.1 (<0.1)	33.0	3.8
COLEOPTERA				
Elmidae larvae	0.7 (4.3)	<0.1 (0.2)	66.7	7.6
TERRESTRIAL ORGANISMS				
TRICHOPTERA	2.0 (13.0)	<0.1 (0.2)	66.7	8.6
HYMENOPTERA				
Formicidae	2.0 (13.0)	1.1 (6.4)	100.0	12.8
Ichneumonidae	0.3 (2.2)	2.3 (13.3)	33.3	5.2
LEPIDOPTERA	2.7 (17.4)	9.7 (56.6)	100.0	18.6

Table F.93. July feeding habits of 2+ rainbow trout (N=2) in lower Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.5 (2.3)	0.5 (0.3)	50.0	4.4
Brachycentridae	1.0 (4.5)	0.1 (1.0)	50.0	4.6
Rhyacophilidae	0.5 (2.3)	0.4 (2.7)	50.0	4.6
Hydropsychidae	0.5 (2.3)	0.3 (2.4)	50.0	4.5
Glossosomatidae	1.5 (6.8)	0.1 (0.3)	100.0	8.9
EPHEMEROPTERA				
Baetidae	8.50 (38.6)	1.8 (12.4)	100.0	12.6
Heptageniidae	2.5 (11.4)	1.5 (10.3)	50.0	6.0
DIPTERA				
Chironomidae larvae	0.5 (2.3)	0.1 (0.3)	50.0	4.4
Ceratopogonidae	0.5 (2.3)	0.1 (0.7)	50.0	4.4
Syrphidae	0.5 (2.3)	0.1 (0.3)	50.0	4.4
COLEOPTERA				
Elmidae larvae	0.5 (2.3)	0.6 (4.5)	50.0	4.7
HYDRACARINA	0.5 (2.3)	0.9 (6.2)	50.0	4.9
LEPIDOPTERA				
Pyralidae	0.5 (2.3)	1.1 (7.6)	50.0	5.0
TERRESTRIAL ORGANISMS				
DIPTERA				
Sciaridae	0.5 (2.3)	0.7 (5.1)	50.0	4.8
Unidentified	0.5 (2.3)	0.5 (3.4)	50.0	4.6
COLEOPTERA				
Elateridae	0.5 (2.3)	4.5 (31.3)	50.0	7.0
HOMOPTERA				
Aphididae	0.5 (2.3)	0.3 (2.1)	50.0	4.5
HYMENOPTERA				
Formicidae	2.0 (9.1)	1.3 (8.9)	50.0	5.7

Table F.94. September feeding habits of 2+ rainbow trout (N=2) in lower Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Rhyacophilidae	1.0 (3.6)	0.3 (0.2)	100.0	11.5
Glossosomatidae	4.0 (14.3)	1.3 (0.8)	100.0	12.8
DIPTERA				
Chironomidae larvae	1.0 (3.6)	0.2 (0.1)	100.0	11.5
PLECOPTERA				
Perlodidae	1.0 (3.6)	1.6 (1.0)	100.0	11.6
COLEOPTERA				
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Chrysomelidae	1.0 (3.6)	1.2 (0.7)	100.0	11.6
HYMENOPTERA				
Formicidae	19.0 (67.9)	159.8 (97.0)	100.0	29.4

Table F.95. June feeding habits of 3+ mountain whitefish (N=1) in Ruby Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	5.0 (2.1)	5.1 (7.2)	100.0	9.9
Brachycentridae	4.0 (1.7)	0.3 (0.4)	100.0	9.3
Rhyacophilidae	1.0 (0.4)	0.2 (0.3)	100.0	9.2
Hydropsychidae	5.0 (2.1)	4.1 (5.8)	100.0	9.8
EPHEMEROPTERA				
Ephemerellidae	16.0 (6.8)	17.7 (25.1)	100.0	12.0
Heptageniidae	8.0 (3.4)	4.2 (95.9)	100.0	9.9
DIPTERA				
Chironomidae larvae	5.0 (2.1)	0.1 (0.1)	100.0	9.3
Simuliidae	19.0 (80.8)	37.5 (53.1)	100.0	21.2
COLEOPTERA				
Hydrophilidae	1.0 (0.4)	1.4 (2.0)	100.0	9.3

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Table F.96. June feeding habits of 0+ brook trout (N=3) in upper Cee Cee Ah Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
DIPTERA				
Chironomidae larvae	2.3 (63.6)	0.4 (86.7)	66.7	54.2
Chironomidae pupae	1.0 (27.3)	<0.1 (6.7)	100.0	33.5
TERRESTRIAL ORGANISMS				
TRICHOPTERA	0.3 (9.1)	<0.1 (6.7)	33.3	12.3

Table F.97. July feeding habits of 0+ brook trout (N=5) in upper Cee Cee Ah Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.4 (5.0)	<0.1 (0.9)	40.0	9.6
Brachycentridae	0.2 (2.5)	<0.1 (0.4)	20.0	4.9
DIPTERA				
Chironomidae larvae	1.0 (12.5)	<0.1 (0.9)	40.0	11.1
Ceratopogonidae	0.2 (2.5)	<0.1 (0.9)	20.0	4.9
PLECOPTERA				
Nemouridae	0.8 (10.0)	<0.1 (0.9)	20.0	6.4
COLEOPTERA				
Dytiscidae	4.2 (52.5)	0.2 (0.9)	20.0	15.3
BIVALVIA				
Sphaeriidae	0.4 (5.0)	<0.1 (0.9)	40.0	9.6
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Elmidae adult	0.2 (2.5)	<0.1 (0.9)	20.0	4.9
HOMOPTERA				
Aphididae	0.2 (2.5)	<0.1 (0.9)	20.0	4.9
HYMENOPTERA				
Formicidae	0.2 (2.5)	<0.1 (0.9)	20.0	4.9
UNIDENTIFIED	0.2 (2.5)	2.1 (91.3)	20.0	23.7

Table F.98. September feeding habits of 0+ brook trout (N=8) in upper Cee Cee Ah Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	2.7 (18.2)	1.1 (12.2)	75.0	14.0
Rhyacophilidae	0.1 (0.8)	0.4 (4.2)	12.5	2.3
Hydropsychidae	0.2 (1.6)	0.9 (10.2)	25.0	4.9
Glossosomatidae	0.1 (0.8)	0.1 (1.7)	12.5	2.0
EPHEMEROPTERA				
Baetidae	1.2 (8.3)	0.3 (3.4)	50.0	8.2
Heptageniidae	0.7 (5.0)	0.1 (1.4)	37.5	5.8
DIPTERA				
Chironomidae larvae	2.9 (19.0)	0.6 (7.2)	50.0	10.2
Chironomidae pupae	3.2 (21.5)	0.5 (4.0)	25.0	6.7
PLECOPTERA				
Nemouridae	1.1 (7.4)	0.4 (4.5)	50.0	8.3
COLEOPTERA				
Elmidae larvae	0.1 (0.9)	0.4 (4.2)	12.5	2.3
HYDRACARINA	0.2 (1.6)	0.3 (3.1)	25.0	4.0
TERRESTRIAL ORGANISMS				
DIPTERA				
Unidentified	0.5 (3.3)	0.2 (2.8)	25.0	4.1
COLEOPTERA				
Elmidae adult	0.1 (0.8)	0.5 (5.2)	12.5	2.5
HYMENOPTERA				
Formicidae	0.6 (4.1)	1.3 (15.2)	50.0	9.2
Diapriidae	0.4 (2.5)	0.4 (4.8)	37.5	6.0
ARANEIDA	0.1 (0.9)	0.5 (5.4)	12.5	2.5
LEPIDOPTERA	0.2 (1.6)	0.5 (5.1)	12.5	2.7
UNIDENTIFIED	0.2 (1.6)	0.4 (4.5)	25.0	4.2

Table F.99. October feeding habits of 0+ brook trout (N=5) in upper Cee Cee Ah Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Hydropsychidae	0.2 (3.8)	0.1 (18.5)	20.0	9.2
Hydroptilidae	0.6 (11.5)	<0.1 (3.7)	40.0	12.0
EPHEMEROPTERA				
Ephemerellidae	0.6 (11.5)	<0.1 (3.7)	40.0	12.0
Baetidae	1.4 (26.9)	<0.1 (3.7)	60.0	19.7
DIPTERA				
Ceratopogonidae	0.2 (3.8)	co.1 (3.7)	20.0	6.0
PLECOPTERA				
Nemouridae	2.0 (38.5)	0.3 (63.0)	60.0	35.1
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	<0.1 (3.8)	<0.1 (3.7)	20.0	6.0

**Table F.100. March feeding habits of 1+ brook trout
(N=11) in upper Cee Cee Ah Creek for 1989.**

PREY ITEMS	Number Mean (%)	Weight (ng) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.5 (7.3)	0.7 (30.9)	27.3	11.2
Brachycentridae	0.9 (12.2)	0.1 (3.9)	36.4	9.0
Rhyacophilidae	0.3 (4.9)	<0.1 (0.4)	18.2	4.0
EPHEMEROPTERA				
Ephemerellidae	0.1 (1.2)	0.1 (2.3)	9.1	2.2
Baetidae	0.1 (1.2)	<0.1 (0.4)	9.1	1.8
Heotaaeniidae	0.2 (2.4)	<0.1 (0.4)	18.2	3.6
DIPTERA				
Chironomidae larvae	2.8 (37.8)	0.3 (14.1)	63.6	19.8
Tipulidae	0.2 (2.4)	0.3 (11.7)	18.2	5.6
Ceratopogonidae	0.4 (3.7)	<0.1 (0.8)	27.3	5.4
PLECOPTERA				
Nemouridae	0.1 (1.2)	0.1 (0.4)	9.1	1.8
Perlodidae	0.9 (12.2)	6.5 (25.3)	63.6	17.4
Chloroperlidae	0.9 (1.2)	<0.1 (0.4)	9.1	1.8
COLEOPTERA				
Elmidae	0.1 (1.2)	co. 1 (0.4)	9.1	1.8
HYDRACARINA	0.1 (1.2)	co. 1 (0.4)	9.1	1.8
BIVALVIA				
Sphaeriidae	0.5 (7.3)	0.2 (7.4)	36.4	8.8
TERRESTRIAL ORGANISMS				
TRICHOPTERA	0.1 (1.2)	<0.1 (0.4)	9.1	1.8
ARANEIDA	0.1 (1.2)	co. 1 (0.4)	9.1	1.8

Table F.101. April feeding habits of 1+ brook trout (N=3) in upper Cee Cee Ah Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.3 (5.0)	1.2 (22.5)	33.3	10.1
Brachycentridae	1.7 (25.0)	0.5 (8.7)	66.7	16.7
Rhyacophilidae	0.7 (10.0)	0.6 (10.6)	33.3	9.0
Glossosomatidae	0.3 (5.0)	0.1 (1.9)	33.3	6.7
DIPTERA				
Simuliidae	0.3 (5.0)	<0.1 (0.6)	33.3	6.5
Tipulidae	0.3 (5.0)	<0.1 (0.6)	33.3	6.5
Ceratopogonidae	1.0 (15.0)	0.7 (13.1)	33.3	10.2
PLECOPTERA				
Nemouridae	0.3 (5.0)	<0.1 (0.6)	33.3	6.5
COLEOPTERA				
Hydrophilidae	0.3 (5.0)	<0.1 (0.6)	33.3	6.5
TERRESTRIAL ORGANISMS				
OLIGOCHAETA				
Lumbriculidae	1.0 (15.0)	2.1 (40.0)	33.3	14.7
COLLEMBOLA				
Sminthuridae	0.3 (5.0)	<0.1 (0.6)	33.3	6.5

Table F.102. June feeding habits of 1+ brook trout (N=9) in upper Cee Cee Ah Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.9 (1.5)	0.2 (2.5)	33.3	5.8
EPHEMEROPTERA				
Ephemerellidae	0.4 (0.7)	1.4 (15.3)	44.4	9.4
Heptageniidae	1.6 (2.6)	3.4 (36.4)	55.6	14.7
DIPTERA				
Chironomidae larvae	53.7 (88.6)	3.4 (37.0)	100.0	35.0
Chironomidae pupae	2.4 (4.0)	0.3 (3.4)	100.0	16.7
HYDRACARINA	0.8 (1.3)	<0.1 (0.2)	44.4	7.1
BIVALVIA				
Sphaeriidae	0.3 (0.5)	<0.1 (0.5)	22.2	3.6
TERRESTRIAL ORGANISMS				
DIPTERA				
Bibionidae	0.1 (0.2)	0.1 (0.7)	11.1	1.9
COLEOPTERA				
Elmidae adult	0.1 (0.2)	<0.1 (0.4)	11.1	1.8
COLEOPTERA				
Cerambycidae	0.1 (0.2)	0.3 (3.1)	11.1	2.2
HOMOPTERA				
Aphididae	0.1 (0.2)	<0.1 (0.1)	11.1	1.8

Table F.103. July feeding habits of 1+ brook trout (N=14) in upper Cee Cee Ah Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	2.0 (15.9)	2.2 (17.3)	57.1	11.7
Brachycentridae	0.2 (1.70)	<0.1 (0.1)	14.3	2.1
Rhyacophilidae	0.3 (2.3)	1.0 (7.8)	21.4	4.1
Hydropsychidae	0.1 (1.1)	0.6 (4.7)	14.3	2.6
EPHEMEROPTERA				
Ephemerellidae	0.5 (4.0)	1.4 (11.0)	35.7	6.6
Heptageniidae	0.1 (0.6)	<0.1 (0.1)	7.1	1.0
DIPTERA				
Chironomidae larvae	1.8 (14.2)	0.2 (1.3)	57.1	9.4
Chironomidae pupae	1.6 (13.1)	<0.1 (0.1)	28.6	5.4
Simuliidae	0.3 (2.3)	<0.1 (0.1)	21.4	3.1
Muscidae	0.1 (1.1)	<0.1 (0.1)	14.3	2.0
PLECOPTERA				
Nemouridae	0.4 (2.8)	0.1 (0.1)	21.4	3.1
Peltoperlidae	0.1 (0.6)	4.9 (37.6)	7.1	5.9
COLEOPTERA				
Elmidae larvae	0.7 (5.7)	<0.1 (0.1)	42.9	6.3
Dytiscidae	1.3 (10.2)	0.1 (0.4)	42.9	6.9
HYDRACARINA	0.3 (2.3)	<0.1 (0.1)	14.3	2.1
LEPIDOPTERA				
Pyralide	0.2 (1.7)	<0.1 (0.1)	7.1	1.1
TERRESTRIAL ORGANISMS				
TRICHOPTERA	0.1 (0.6)	<0.1 (0.1)	7.1	1.0
DIPTERA				
Mycetophilidae	0.1 (0.6)	<0.1 (0.1)	7.1	1.0
Tipulidae	0.1 (0.6)	0.3 (2.4)	7.1	1.3
COLEOPTERA				
Elmidae adult	0.1 (0.6)	<0.1 (0.1)	7.1	1.0
Carabidae	0.2 (1.7)	1.2 (9.3)	7.1	2.3
Lampyridae	0.1 (0.6)	<0.1 (0.1)	7.1	1.0
Scarabaeidae	0.1 (0.6)	0.1 (0.2)	7.1	1.0
Unidentified	0.4 (2.8)	0.6 (4.7)	21.4	3.7
HOMOPTERA				
Psyllidae	0.1 (0.6)	<0.1 (0.1)	7.1	1.0
HYMENOPTERA				
Formicidae	0.8 (6.2)	0.3 (2.5)	42.9	6.7
Braconidae	0.2 (1.7)	<0.1 (0.1)	14.3	2.1
ARANEIDA	0.2 (1.7)	<0.1 (0.1)	14.3	2.1
UNIDENTIFIED	0.3 (2.3)	<0.1 (0.1)	14.3	2.1

Table F.104. September feeding habits of 1+ brook trout (N=8) in upper Cee Cee Ah Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	3.4 (19.0)	1.2 (12.4)	87.5	19.0
Hydropsychidae	0.1 (0.7)	0.4 (4.3)	12.5	2.8
Glossosomatidae	0.1 (0.7)	0.3 (3.4)	12.5	2.6
EPHEMEROPTERA				
Baetidae	1.0 (5.6)	0.7 (7.6)	37.5	8.1
Heptageniidae	0.1 (0.7)	1.1 (11.6)	12.5	4.0
DIPTERA				
Chironomidae larvae	10.9 (61.3)	1.9 (20.2)	75.0	25.0
PLECOPTERA				
Nemouridae	0.2 (1.4)	0.2 (2.2)	25.0	4.6
HYDRACARINA	0.2 (1.4)	0.3 (3.1)	12.5	2.7
BIVALVIA				
Sphaeriidae	0.2 (1.4)	0.6 (6.6)	25.0	5.3
TERRESTRIAL ORGANISMS				
DIPTERA				
Simuliidae	0.1 (0.7)	0.3 (3.2)	12.5	2.6
Unidentified	0.2 (1.4)	0.3 (3.4)	25.0	4.8
COLEOPTERA				
Elmidae adult	0.1 (0.7)	0.4 (4.3)	12.5	2.8
HOMOPTERA				
Cercopidae	0.1 (0.7)	0.2 (2.2)	12.5	2.5
HYMENOPTERA				
Formicidae	0.2 (1.4)	0.6 (6.2)	12.5	3.2
ARANEIDA	0.1 (0.7)	0.2 (2.5)	12.5	2.5
COLLEMBOLA				
Sminthuridae	0.1 (0.7)	0.2 (2.5)	12.5	2.5
UNIDENTIFIED	0.2 (1.4)	0.4 (4.3)	25.0	4.9

**Table F.105. October feeding habits of 1+ brook trout
(N=8) in upper Cee Cee Ah Creek for 1989.**

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Brachycentridae	0.4 (3.3)	0.1 (1.3)	25.0	4.4
Rhyacophilidae	0.7 (6.5)	0.8 (11.2)	50.0	10.0
Hydroptilidae	2.3 (19.6)	0.7 (8.5)	62.5	13.4
EPHEMEROPTERA				
Ephemereilidae	0.5 (4.3)	0.3 (3.4)	25.0	4.8
Baetidae	0.9 (7.6)	0.2 (2.4)	50.0	8.9
Heptageniidae	0.1 (1.1)	0.1 (0.8)	12.5	2.1
DIPTERA				
Simuliidae	0.4 (3.3)	0.1 (1.6)	25.0	4.4
Tipulidae	0.2 (2.2)	1.1 (13.8)	25.0	6.1
PLECOPTERA				
Nemouridae	4.2 (37.0)	0.6 (8.0)	62.5	15.9
COLEOPTERA				
Hydrophilidae	0.1 (1.1)	<0.1 (0.2)	12.5	2.0
HYDRACARINA	0.1 (1.1)	0.1 (0.6)	12.5	2.1
OSTEICHTHYES				
Eggs	0.7 (6.5)	2.8 (36.2)	37.5	11.8
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Diapriidae	0.1 (1.1)	0.1 (0.5)	12.5	2.1
LEPIDOPTERA	0.2 (2.2)	0.7 (9.0)	25.0	5.4
COLLEMBOLA				
Sminthuridae	0.1 (1.1)	<0.1 (0.2)	12.5	2.0
DIPLOPODA	0.1 (1.1)	0.1 (0.6)	12.5	2.1
UNIDENTIFIED	0.1 (1.1)	0.1 (1.6)	12.5	2.2

Table F.106. March feeding habits of 2+ brook trout (N=6) in upper Cee Cee Ah Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	3.0 (20.7)	2.0 (9.4)	83.3	17.9
Brachycentridae	2.5 (17.2)	0.4 (1.8)	66.7	13.5
Rhyacophilidae	0.2 (1.1)	<0.1 (0.1)	16.7	2.8
Glossosomatidae	0.2 (1.1)	<0.1 (0.1)	16.7	2.8
EPTHEMEROPTERA				
Heptageniidae	0.2 (1.1)	<0.1 (0.1)	16.7	2.8
DIPTERA				
Chironomidae larvae	1.2 (8.0)	<0.1 (0.1)	16.7	3.9
Chironomidae pupae	0.2 (1.1)	<0.1 (0.1)	16.7	2.8
Tipulidae	0.3 (2.3)	5.9 (27.6)	16.7	7.4
Ceratopogonidae	0.2 (1.1)	<0.1 (0.1)	16.7	2.8
PLECOPTERA				
Nemouridae	3.5 (24.1)	1.5 (6.8)	66.7	15.4
BIVALVIA				
Sphaeriidae	0.2 (1.1)	<0.1 (0.1)	16.7	2.8
TERRESTRIAL ORGANISMS				
PLECOPTERA	2.7 (18.4)	2.2 (10.4)	66.7	15.1
OLIGOCHAETA				
Lumbriculidae	0.3 (2.3)	9.3 (43.4)	16.7	9.85

Table F.107. April feeding habits of 2+ brook trout (N=4) in upper Cee Cee Ah Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	4.5 (32.1)	7.0 (68.6)	100.0	26.8
Brachycentridae	1.0 (7.1)	0.5 (4.7)	25.0	4.9
DIPTERA				
Chironomidae larvae	1.0 (7.1)	<0.1 (0.2)	75.0	11.0
Tipulidae	1.5 (10.7)	0.5 (5.1)	50.0	8.8
Ceratopogonidae	0.5 (3.6)	0.1 (0.7)	25.0	3.9
Empididae	0.2 (1.8)	<0.1 (0.2)	25.0	3.6
COLEOPTERA				
Elmidae	0.5 (3.6)	0.3 (3.4)	50.0	7.6
Hydrophilidae	0.5 (3.6)	0.4 (4.4)	50.0	7.7
TERRESTRIAL ORGANISMS				
OLIGOCHAETA				
Lumbriculidae	2.0 (14.3)	0.4 (4.2)	75.0	12.5
ARANEIDA	0.2 (1.8)	<0.1 (0.2)	25.0	3.6
DIPLOPODA	2.0 (14.3)	0.8 (8.1)	50.0	9.6

Table F.108. June feeding habits of 2+ brook trout (N=9) in upper Cee Cee Ah Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	12.1 (55.0)	11.4 (51.6)	88.9	22.0
Unidentified pupae	0.1 (0.5)	0.2 (1.0)	11.1	1.4
EPHEMEROPTERA				
Baetidae	0.1 (0.5)	1.9 (8.8)	11.1	2.3
Heptageniidae	0.3 (1.5)	1.5 (6.6)	33.3	4.7
DIPTERA				
Chironomidae larvae	1.7 (7.6)	0.1 (0.5)	77.8	9.7
Chironomidae pupae	1.8 (8.1)	0.8 (3.7)	77.8	10.1
COLEOPTERA				
Dytiscidae	0.3 (1.5)	0.5 (2.2)	11.1	1.7
HYDRACARINA	0.4 (2.0)	<0.1 (0.1)	44.4	5.2
BIVALVIA				
Sphaeriidae	0.1 (0.5)	<0.1 (0.1)	11.1	1.3
UNIDENTIFIED	0.2 (1.0)	0.2 (0.8)	11.1	1.4
TERRESTRIAL ORGANISMS				
TRICHOPTERA	0.6 (2.5)	0.8 (3.5)	22.2	3.2
DIPTERA				
Sciaridae	0.2 (1.0)	<0.1 (0.1)	22.2	2.6
Bibionidae	0.9 (4.0)	0.8 (3.7)	55.6	7.1
Simuliidae	0.2 (1.0)	<0.1 (0.1)	22.2	2.6
COLEOPTERA				
Elmidae adult	0.2 (1.0)	0.1 (0.2)	22.2	2.6
Carabidae	0.1 (0.5)	0.1 (0.4)	11.1	1.4
Curculionidae	0.4 (2.0)	0.4 (1.9)	33.3	4.2
Cerambycidae	0.2 (1.0)	0.5 (2.4)	11.1	1.6
Bruchidae	0.1 (0.5)	<0.1 (0.1)	11.1	1.3
Lathridiidae	0.1 (0.5)	<0.1 (0.1)	11.1	1.3
HOMOPTERA				
Aphididae	0.1 (0.5)	<0.1 (0.1)	11.1	1.3
HYMENOPTERA				
Formicidae	0.7 (3.0)	0.2 (1.1)	33.3	4.3
Ichneumonidae	0.1 (0.5)	<0.1 (0.1)	11.1	1.3
UNIDENTIFIED	0.8 (3.5)	2.4 (11.1)	33.3	5.4

Table F.109. September feeding habits of 2+ brook trout (N=3) in upper Cee Cee Ah Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	4.3 (16.5)	1.9 (3.5)	100.0	9.0
Brachycentridae	0.3 (1.3)	1.3 (2.4)	33.3	2.8
Rhyacophilidae	1.3 (5.1)	1.8 (3.4)	33.3	3.1
EPHEMEROPTERA				
Baetidae	4.0 (15.2)	2.0 (3.8)	100.0	8.9
DIPTERA				
Chironomidae larvae	3.0 (11.4)	1.4 (2.6)	66.7	6.0
Simuliidae	0.3 (1.3)	1.2 (2.2)	33.3	2.8
PLECOPTERA				
Nemouridae	2.0 (7.6)	1.1 (2.1)	100.0	8.2
Peltoperlidae	0.3 (1.3)	1.4 (2.6)	33.3	2.8
COLEOPTERA				
Elmidae larvae	0.3 (1.3)	1.5 (2.8)	33.3	2.8
HYDRACARINA	0.7 (2.5)	0.7 (1.3)	33.3	2.8
TERRESTRIAL ORGANISMS				
DIPTERA				
Chironomidae	0.3 (1.3)	1.0 (1.9)	33.3	2.7
Simuliidae	0.3 (1.3)	0.9 (1.6)	33.3	2.7
Mycetophilidae	1.3 (5.1)	0.9 (1.7)	66.7	5.5
COLEOPTERA				
Elmidae adult	0.3 (1.3)	0.7 (1.4)	33.3	2.7
Unidentified	0.7 (2.5)	1.2 (2.3)	66.7	5.4
HOMOPTERA				
Cicadellidae	0.3 (1.3)	0.7 (1.2)	33.3	2.7
HYMENOPTERA				
Formicidae	2.0 (7.6)	10.7 (20.2)	66.7	7.1
LEPIDOPTERA	1.3 (5.1)	17.0 (32.0)	100.0	10.3
ORTHOPTERA	0.3 (1.3)	4.4 (8.2)	33.3	3.2
DIPLODA	0.3 (1.3)	0.9 (1.6)	33.3	2.7
UNIDENTIFIED	2.3 (8.9)	0.5 (0.9)	66.7	5.7

Table G.IIO. October feeding habits of 2+ brook trout (N=4) in upper Cee Cee Ah Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Rhyacophilidae	1.0 (9.8)	2.1 (4.5)	25.0	8.3
Ephemeroptera				
Ephemerellidae	0.2 (2.4)	0.2 (0.5)	25.0	5.9
Heptageniidae	0.2 (2.4)	0.6 (1.3)	25.0	6.0
DIPTERA				
Chironomidae larvae	0.2 (2.4)	0.1 (0.2)	25.0	5.8
Tipulidae	0.5 (4.9)	1.7 (3.8)	50.0	12.3
OSTEICHTHYES				
Eggs	7.0 (68.3)	34.6 (75.5)	50.0	40.8
TERRESTRIAL ORGANISM				
UNIDENTIFIED	1.0 (9.8)	6.5 (14.2)	75.0	20.8

Table F.111. June feeding habits of 0+ brown trout (N=4) in lower Cee Cee Ah Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
Ephemeroptera				
Ephemerellidae	2.2 (33.3)	0.7 (44.8)	50.0	27.0
Baetidae	0.7 (11.1)	0.13 (7.5)	25.0	9.2
DIPTERA				
Chironomidae larvae	1.5 (22.2)	0.1 (4.5)	75.0	21.4
Chironomidae pupae	0.7 (11.1)	0.2 (11.9)	50.0	15.4
Simuliidae	1.2 (18.5)	0.5 (29.8)	50.0	20.7
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Elnidae adult	0.2 (3.7)	<0.1 (1.5)	25.0	6.4

Table F.112. July feeding habits of 0+ brown trout (N=11) in lower Cee Cee Ah Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.1 (0.9)	0.1 (7.6)	9.1	4.5
EPHEMEROPTERA				
Heptageniidae	8.6 (88.0)	0.7 (78.1)	81.8	63.4
DIPTERA				
Chironomidae larvae	0.2 (1.8)	<0.1 (0.9)	18.2	5.4
Chironomidae pupae	0.3 (2.8)	<0.1 (0.9)	27.3	7.9
Simuliidae	0.3 (2.8)	0.1 (4.8)	27.3	8.9
COLEOPTERA				
Elmidae larvae	0.1 (0.9)	<0.1 (1.9)	9.1	3.0
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Carabidae	0.1 (0.9)	0.1 (4.8)	9.1	3.8
UNIDENTIFIED	0.2 (1.8)	<0.1 (0.9)	9.1	3.0

Table F.113. September feeding habits of 0+ brown trout (N=5) in lower Cee Cee Ah Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.4 (5.7)	0.1 (2.4)	20.0	4.8
Brachycentridae	0.2 (2.9)	0.1 (2.4)	20.0	4.4
Rhyacophilidae	0.2 (2.9)	0.2 (3.9)	20.0	4.6
EPHEMEROPTERA				
Ephemerellidae	0.2 (2.9)	0.1 (2.4)	20.0	4.4
Baetidae	2.6 (37.4)	0.9 (22.9)	80.0	24.1
DIPTERA				
Chironomidae larvae	0.2 (2.9)	0.2 (4.4)	20.0	4.7
Simuliidae	1.4 (20.0)	0.4 (9.8)	60.0	15.5
Tipulidae	0.2 (2.9)	0.6 (15.1)	20.0	6.5
COLEOPTERA				
Elmidae larvae	0.6 (8.6)	0.3 (6.8)	40.0	9.5
TERRESTRIAL ORGANISMS				
TRICHOPTERA	0.2 (2.9)	0.3 (7.8)	20.0	5.3
HOMOPTERA				
Aphididae	0.2 (2.9)	0.1 (2.9)	20.0	4.4
Psyllidae	0.4 (5.7)	0.4 (9.8)	20.0	6.1
UNIDENTIFIED	0.2 (2.9)	0.4 (9.3)	20.0	5.5

Table F.114. October feeding habits of 0+ brown trout (N=7) in lower Cee Cee Ah Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	1.7 (31.6)	0.1 (7.0)	71.4	19.7
Brachycentridae	0.3 (5.3)	0.3 (12.7)	14.3	5.8
Hydropsychidae	0.1 (2.6)	0.2 (8.4)	14.3	4.5
Hydroptilidae	0.1 (2.6)	0.1 (4.9)	14.3	3.9
EPHEMEROPTERA				
Ephemerellidae	0.7 (13.2)	0.2 (8.4)	42.9	11.6
Baetidae	0.4 (7.9)	0.1 (5.6)	42.9	10.1
Heptageniidae	0.4 (7.9)	0.2 (9.1)	14.3	5.6
DIPTERA				
Ceratopogonidae	0.1 (2.6)	0.1 (3.6)	14.3	3.7
PLECOPTERA				
Nemouridae	0.4 (7.9)	0.2 (9.1)	28.6	8.2
Perlodidae	0.3 (5.3)	0.3 (16.9)	28.6	9.1
COLEOPTERA				
Elmidae larvae	0.3 (5.3)	0.1 (3.5)	28.6	6.7
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Elmidae adult	0.1 (2.6)	0.1 (5.6)	14.3	4.0
HOMOPTERA				
Cercopidae	0.1 (2.6)	0.1 (3.5)	14.3	3.7
UNIDENTIFIED	0.1 (2.6)	co.1 (1.4)	14.3	3.3

Table F.115. March feeding habits of 1+ brown trout (N=7) in lower Cee Cee Ah Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	1.4 (22.2)	<0.1 (0.6)	14.3	7.9
Brachycentridae	0.3 (4.4)	<0.1 (0.6)	28.6	7.1
Hydroptilidae	0.6 (8.9)	0.1 (5.1)	28.6	9.0
EPHEMEROPTERA				
Ephemerellidae	0.6 (8.9)	<0.1 (0.6)	42.9	11.1
Baetidae	1.3 (20.0)	<0.1 (0.6)	42.9	13.5
Heptageniidae	1.6 (24.4)	0.4 (18.6)	42.9	18.2
DIPTERA				
Chironomidae larvae	0.1 (2.2)	<0.1 (0.6)	14.3	3.6
PLECOPTERA				
Nemouridae	0.3 (4.4)	<0.1 (0.6)	28.6	7.1
COLEOPTERA				
Elmidae larvae	0.1 (2.2)	<0.1 (0.6)	14.3	3.6
TERRESTRIAL ORGANISMS				
OLIGOCHAETA				
Lumbriculidae	0.1 (2.2)	1.6 (71.8)	14.3	18.8

Table F.116. April feeding habits of 1+ brown trout (N=1) in lower Cee Cee Ah Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Brachycentridae	1.0 (50.0)	0.1 (7.7)	100.0	39.4
PLECOPTERA				
Nemouridae	1.2 (50.0)	1.2 (92.3)	100.0	60.6

Table F.117. June feeding habits of 1+ brown trout (N=10) in lower Cee Cee Ah Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	1.5 (26.3)	1.3 (7.2)	70.0	18.5
Brachycentridae	0.4 (7.0)	0.1 (0.5)	20.0	4.9
Rhyacophilidae	0.1 (1.7)	0.4 (2.3)	10.0	2.5
EPHEMEROPTERA				
Ephemerellidae	0.4 (7.0)	0.8 (4.3)	20.0	5.6
Baetidae	0.6 (10.5)	0.3 (1.6)	20.0	5.7
Heptageniidae	0.4 (7.0)	0.5 (2.8)	30.0	7.1
DIPTERA				
Chironomidae larvae	0.4 (7.0)	0.1 (0.6)	30.0	6.7
Chironomidae pupae	0.1 (1.7)	0.5 (0.3)	10.0	2.1
Simuliidae	0.3 (5.3)	<0.1 (0.2)	10.0	2.8
COLEOPTERA				
Elmidae larvae	0.1 (1.7)	<0.1 (0.1)	10.0	2.1
Dytiscidae	0.1 (1.7)	0.6 (3.4)	10.0	2.7
GASTROPODA				
Planorbidae	0.1 (1.7)	0.3 (1.7)	10.0	2.4
BIVALVIA				
Sphaeriidae	0.1 (1.7)	0.1 (0.5)	10.0	2.2
UNIDENTIFIED	0.1 (1.7)	<0.1 (0.2)	10.0	2.1
TERRESTRIAL ORGANISMS				
TRICHOPTERA	0.1 (1.7)	0.2 (1.3)	10.0	2.3
DIPTERA				
Chironomidae	0.1 (1.7)	<0.1 (0.2)	10.0	2.1
Simuliidae	0.1 (1.7)	0.1 (0.1)	10.0	2.1
COLEOPTERA				
Elmidae adult	0.1 (1.7)	0.1 (0.7)	10.0	2.2
Byrrhidae	0.1 (1.7)	<0.1 (0.1)	10.0	2.1
HYMENOPTERA				
Formicidae	0.1 (1.7)	0.9 (0.5)	10.0	2.2
ARANEIDA	0.1 (1.7)	0.9 (0.5)	10.0	2.2
OLIGOCHAETA				
Lumbriculidae	0.3 (5.3)	12.7 (70.9)	20.0	17.2

**Table F.118. July feeding habits of 1+ brown trout (N=5)
in lower Cee Cee Ah Creek for 1989.**

PREY ITEMS	Number Mean (%)	Weight (ng) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Brachycentridae	0.2 (0.6)	<0.1 (0.5)	20.0	3.0
EPTHEMEROPTERA				
Ephemerellidae	0.2 (0.6)	co.1 (0.5)	20.0	3.3
Heptageniidae	16.0 (51.0)	1.6 (38.6)	100.0	29.6
DIPTERA				
Chironomidae larvae	0.2 (0.6)	<0.1 (0.5)	20.0	3.3
Chironomidae pupae	0.4 (1.3)	0.1 (1.4)	20.0	3.5
Simuliidae	10.4 (33.1)	<0.1 (0.5)	60.0	14.6
COLEOPTERA				
Elmidae larvae	0.4 (1.3)	<0.1 (0.5)	20.0	3.4
Halplidae	0.8 (2.5)	1.6 (37.7)	60.0	15.7
Unidentified	0.6 (1.9)	0.4 (8.7)	40.0	7.9
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Elmidae adult	1.2 (3.8)	0.4 (10.1)	40.0	8.4
ARANEIDA	0.2 (0.6)	<0.1 (0.5)	20.0	3.3
UNIDENTIFIED	0.8 (2.5)	<0.1 (0.5)	20.0	3.6

Table F.119. September feeding habits of 1+ brown trout (N=8) in lower Cee Cee Ah Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	4.1 (22.0)	1.3 (9.1)	100.0	11.9
Brachycentridae	0.1 (0.7)	0.2 (1.1)	12.5	1.3
Rhyacophilidae	0.1 (0.7)	0.2 (1.5)	12.5	1.3
Hydropsychidae	0.2 (1.3)	0.2 (1.2)	25.0	2.5
Glossosomatidae	2.0 (10.7)	0.6 (4.2)	37.5	4.8
Ephemeroptera				
Ephemerellidae	0.6 (3.3)	0.3 (2.4)	50.0	5.1
Baetidae	1.7 (9.3)	0.4 (3.1)	62.5	6.8
DIPTERA				
Chironomidae larvae	1.0 (5.3)	0.1 (1.0)	62.5	6.3
Simuliidae	0.7 (4.0)	0.2 (1.2)	25.0	2.7
COLEOPTERA				
Elmidae larvae	0.7 (4.0)	0.1 (1.1)	37.5	3.9
OSTEICHTHYES				
Unidentified	0.1 (0.7)	0.6 (4.4)	12.5	1.6
GASTROPODA				
Physidae	0.1 (0.7)	0.2 (1.1)	12.5	1.3
BIVALVIA				
Sphaeriidae	0.7 (4.0)	0.4 (2.8)	50.0	5.2
HEMIPTERA				
Gerridae	0.2 (1.3)	0.3 (1.9)	25.0	2.6
TERRESTRIAL ORGANISMS				
TRICHOPTERA	1.1 (6.0)	0.5 (3.5)	37.5	4.3
DIPTERA				
Simuliidae	0.5 (2.7)	0.2 (1.3)	25.0	2.6
Unidentified	0.2 (1.3)	0.2 (1.1)	12.5	1.4
COLEOPTERA				
Elmidae adult	0.4 (2.0)	0.2 (1.4)	25.0	2.6
HOMOPTERA				
Cicadellidae	0.6 (3.3)	1.0 (7.2)	50.0	5.5
Cercopidae	0.2 (1.3)	0.4 (3.1)	25.0	2.7
HYMENOPTERA				
Formicidae	1.5 (8.0)	3.5 (25.2)	75.0	9.8
ARANEIDA	0.5 (2.7)	1.2 (8.7)	37.0	4.4
LEPIDOPTERA	0.5 (2.7)	0.8 (5.6)	50.0	5.3
HEMIPTERA				
Unidentified	0.1 (0.7)	0.3 (2.3)	12.5	1.4
DIPLOPODA	0.1 (0.7)	0.4 (2.9)	12.5	1.5
UNIDENTIFIED	0.1 (0.7)	0.1 (1.1)	12.5	1.3

Table F.120. October feeding habits of 1+ brown trout (N=6) in lower Cee Cee Ah Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	1.5 (20.4)	25.4 (32.8)	83.3	21.6
Hydropsychidae	0.2 (2.3)	0.2 (0.2)	16.7	3.0
EPHEMEROPTERA				
Ephemerellidae	0.5 (6.8)	1.1 (1.4)	50.0	9.2
Baetidae	0.2 (2.3)	0.4 (0.5)	16.7	3.1
Heptageniidae	0.2 (2.3)	0.2 (0.3)	16.7	3.0
PLECOPTERA				
Nemouridae	0.2 (2.2)	0.2 (0.3)	16.7	3.0
Perlodidae	0.2 (2.3)	0.5 (0.7)	16.7	3.1
COLEOPTERA				
Elmidae larvae	0.3 (4.5)	0.3 (0.4)	33.3	6.0
BIVALVIA				
Sphaeriidae	0.2 (2.3)	0.1 (0.1)	16.7	3.0
TERRESTRIAL ORGANISMS				
DIPTERA				
Unidentified	0.3 (4.5)	0.2 (0.3)	16.7	3.4
COLEOPTERA				
Staphylinidae	0.2 (2.3)	0.2 (0.3)	16.7	3.0
Unidentified	0.2 (2.3)	0.1 (0.1)	16.7	3.0
HOMOPTERA				
Cicadellidae	0.3 (4.5)	1.7 (2.3)	16.7	3.7
Cercopidae	0.7 (9.1)	1.3 (1.7)	16.7	4.3
HYMENOPTERA				
Formicidae	0.8 (11.4)	0.3 (0.4)	16.7	4.5
OLIGOCHAETA				
Lumbriculidae	1.0 (13.6)	44.9 (58.0)	50.0	19.2
UNIDENTIFIED	0.5 (6.8)	0.1 (0.1)	16.7	3.7

Table F.121. March feeding habits of 2+ brown trout (N=7) in lower Cee Cee Ah Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (ng) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.4 (3.7)	1.7 (9.8)	42.0	10.7
Brachycentridae	2.5 (22.2)	0.3 (1.8)	28.6	9.9
Rhyacophilidae	0.3 (2.5)	0.4 (2.6)	28.6	6.4
EPTHEMEROPTERA				
Ephemerellidae	0.3 (2.5)	<0.1 (0.1)	14.3	3.2
Baetidae	1.1 (9.9)	<0.1 (0.1)	14.3	4.6
Heptageniidae	4.3 (37.0)	1.3 (7.6)	57.1	19.2
DIPTERA				
Chironomidae larvae	0.4 (3.7)	0.1 (0.1)	28.6	6.1
Ceratopogonidae	0.4 (3.7)	<0.1 (0.1)	28.6	6.1
PLECOPTERA				
Nemuridae	1.1 (9.9)	0.8 (4.4)	42.9	10.8
Perlodidae	0.1 (1.2)	3.4 (19.7)	14.3	6.7
COLEOPTERA				
Elnidae adult	0.1 (1.2)	0.6 (3.5)	14.3	3.6
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Elnidae adult	0.1 (1.2)	0.6 (3.5)	14.3	3.6
COLEOPTERA				
Elnidae adult	0.1 (1.2)	0.6 (3.5)	14.3	3.6
OLIGOCHAETA				
Lumbriculidae	0.3 (2.5)	8.7 (50.3)	14.3	12.7

Table F.122. April feeding habits of 2+ brown trout (N=3) in lower Cee Cee Ah Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.7 (4.6)	2.5 (0.9)	33.3	4.3
Rhyacophilidae	0.3 (2.3)	0.5 (0.2)	33.3	4.0
EPTHEMEROPTERA				
Heptageniidae	1.0 (7.0)	2.2 (0.8)	33.3	4.6
DIPTERA				
Chironomidae larvae	0.7 (4.6)	0.4 (0.1)	66.7	7.9
Simuliidae	0.3 (2.3)	0.5 (0.2)	33.3	4.0
Ceratopogonidae	0.3 (2.3)	<0.1 (<0.1)	33.3	4.0
Psychodidae	0.7 (4.6)	0.3 (0.1)	66.7	7.9
Stratiomyidae	0.3 (2.3)	0.5 (0.2)	33.3	4.0
PLECOPTERA				
Nemouridae	1.3 (9.3)	1.1 (0.4)	66.7	8.5
COLEOPTERA				
Elmidae larvae	0.7 (4.6)	2.4 (0.8)	33.3	4.3
Hydrophilidae	0.3 (2.3)	0.2 (0.1)	33.3	4.0
BIVALVIA				
Sphaeriidae	0.3 (2.3)	<0.1 (<0.1)	33.3	4.0
TERRESTRIAL ORGANISMS				
ARANEIDA	0.3 (2.3)	0.7 (0.2)	33.3	4.0
LEPIDOPTERA	0.3 (2.3)	0.4 (0.1)	33.3	4.0
OLIGOCHAETA				
Lumbriculidae	6.3 (44.2)	273.2 (95.7)	100.0	26.7
UNIDENTIFIED	0.3 (2.3)	0.6 (0.2)	33.3	4.0

Table F.123. June feeding habits of 2+ brown trout (N=2) in lower Cee Cee Ah Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	4.0 (50.0)	8.4 (53.7)	50.0	38.4
COLEOPTERA				
Halplidae	2.5 (31.2)	3.6 (23.3)	50.0	26.1
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	0.5 (6.2)	1.0 (6.1)	50.0	15.6
LEPIDOPTERA	1.0 (12.5)	2.6 (16.9)	50.0	19.9

Table F.124. July feeding habits of 2+ brown trout (N=1) in lower Cee Cee Ah Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	5.0 (100.0)	4.0 (100.0)	100.0	100.0

Table F.125. September feeding habits of 2+ brown trout (N=2) in lower Cee Cee Ah Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	2.0 (14.8)	0.3 (0.9)	100.0	14.5
EPHEMEROPTERA				
Baetidae	0.5 (3.7)	0.4 (1.3)	50.0	6.9
DIPTERA				
Tabanidae	0.5 (3.7)	2.5 (7.5)	50.0	7.6
COLEOPTERA				
Haliplidae	2.0 (14.8)	1.6 (4.8)	50.0	8.7
GASTROPODA				
Lymnaeidae	0.5 (3.7)	1.2 (3.6)	50.0	7.2
Physidae	0.5 (3.7)	0.9 (2.9)	50.0	7.1
TERRESTRIAL ORGANISMS				
DIPTERA				
Simuliidae	0.5 (3.7)	0.3 (0.9)	50.0	6.8
COLEOPTERA				
Elnidae adult	0.5 (3.7)	0.7 (2.1)	50.0	7.0
HOMOPTERA				
Cicadellidae	0.5 (3.7)	1.0 (3.2)	50.0	7.1
HYMENOPTERA				
Fornicidae	5.5 (40.7)	5.2 (15.6)	50.0	13.3
ORTHOPTERA	0.5 (3.7)	19.0 (57.1)	50.0	13.9

Table G.126. October feeding habits of 2+ brown trout
(N=3) in lower Cee Cee Ah Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	2.7 (12.9)	1.7 (7.6)	100.0	10.6
Brachycentridae	5.0 (24.2)	6.0 (26.1)	100.0	13.3
Hydropsychidae	3.0 (14.5)	5.4 (23.7)	100.0	12.2
Glossosomatidae	1.0 (4.8)	0.3 (1.2)	33.3	3.5
EPHEMEROPTERA				
Ephemerellidae	0.3 (1.6)	<0.1 (0.1)	33.3	3.1
Heptageniidae	0.7 (3.2)	<0.1 (0.1)	66.7	6.2
PLECOPTERA				
Nemouridae	0.3 (1.6)	<0.1 (0.1)	33.3	3.1
Perlodidae	0.3 (1.6)	1.2 (5.4)	33.3	3.6
BIVALVIA				
Sphaeriidae	0.3 (1.6)	1.2 (5.4)	33.3	3.6
TERRESTRIAL ORGANISMS				
DIPTERA				
Simuliidae	0.3 (1.6)	<0.1 (0.1)	33.3	3.1
HOMOPTERA				
Aphididae	0.3 (1.6)	<0.1 (0.1)	33.3	3.1
Cicadellidae	1.0 (4.8)	3.0 (12.3)	66.7	7.4
Cercopidae	0.7 (3.2)	<0.1 (0.1)	33.3	3.2
HYMENOPTERA				
Formicidae	3.0 (14.5)	1.3 (5.8)	100.0	10.6
LEPIDOPTERA	0.7 (3.2)	2.1 (9.3)	66.7	7.0
UNIDENTIFIED	1.0 (4.8)	0.4 (1.7)	66.7	6.5

Table F.127. March feeding habits of 3+ brown trout (N=4) in lower Cee Cee ah Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Brachycentridae	0.2 (7.7)	0.1 (0.1)	25.0	6.9
EPHEMEROPTERA				
Ephemerellidae	0.2 (7.7)	0.9 (0.5)	25.0	7.0
Heptageniidae	0.7 (23.1)	<0.1 (<0.1)	50.0	15.4
DIPTERA				
Tabanidae	0.2 (7.7)	0.8 (0.5)	25.0	7.0
PLECOPTERA				
Perlodidae	0.7 (23.1)	4.8 (2.6)	50.0	15.9
GASTROPODA				
Lymnaeidae	0.5 (15.4)	0.2 (0.1)	50.0	13.8
TERRESTRIAL ORGANISMS				
OLIGOCHAETA				
Lumbriculidae	0.2 (7.7)	11.8 (6.4)	25.0	8.2
URODELA	0.2 (7.7)	165.0 (89.8)	25.0	25.8

Table F.128. April feeding habits of 3+ brown trout (N=3) in lower Cee Cee Ah Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Brachycentridae	2.0 (9.2)	2.0 (0.1)	66.7	13.4
DIPTERA				
Tipulidae	0.3 (1.5)	9.3 (0.6)	33.3	6.2
LEPIDOPTERA				
Pyalidae	0.3 (1.5)	1.0 (0.1)	33.3	6.2
HEMIPTERA				
Gerridae	0.3 (1.5)	4.8 (0.3)	33.3	6.2
BIVALVIA				
Sphaeriidae	0.3 (1.5)	<0.1 (<0.1)	33.3	6.1
OSTEICHTHYES				
Eggs	0.7 (3.1)	10.6 (0.6)	33.3	6.5
TERRESTRIAL ORGANISMS				
DIPLOPODA	0.33 (1.5)	0.7 (<0.1)	33.3	6.2
OLIGOCHAETA				
Lumbriculidae	17.3 (80.0)	1628.9 (98.3)	100.0	49.1

Table F.129. June feeding habits of 3+ brown trout (N=4) in lower Cee Cee Ah Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	12.0 (64.0)	16.9 (16.6)	100.0	30.1
COLEOPTERA				
Haliplidae	0.7 (4.0)	<0.1 (<0.1)	50.0	9.0
OSTEICHTHYES				
Cottidae	0.2 (1.3)	76.7 (75.4)	25.0	16.9
TERRESTRIAL ORGANISMS				
DIPTERA				
Sciaridae	0.7 (4.0)	<0.1 (<0.1)	25.0	4.8
Bibionidae	0.2 (1.3)	<0.1 (<0.1)	25.0	4.4
COLEOPTERA				
Staphylinidae	0.2 (1.3)	0.2 (0.2)	25.0	4.4
HOMOPTERA				
Aphididae	0.2 (1.3)	0.1 (0.1)	25.0	4.4
Cicadellidae	0.2 (1.3)	0.2 (0.2)	25.0	4.4
HYMENOPTERA				
Formicidae	3.0 (16.0)	2.3 (2.3)	25.0	7.2
ARANEIDA	0.5 (2.7)	1.3 (1.2)	25.0	4.8
LEPIDOPTERA	0.2 (1.3)	3.4 (3.3)	25.0	4.9
HEMIPTERA				
Nabidae	0.2 (1.3)	0.6 (0.6)	25.0	4.5

Table F.130. July feeding habits of 3+ brown trout (N=1) in lower Cee Cee Ah Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	13.0 (81.2)	9.3 (92.1)	100.0	45.5
Brachycentridae	1.0 (6.2)	0.1 (1.0)	100.0	17.9
Rhyacophilidae	1.0 (6.2)	0.6 (5.9)	100.0	18.7
HEMIPTERA				
Mesoveliidae	1.0 (6.2)	0.1 (1.0)	100.0	17.9

Table F.131. September feeding habits of 3+ brown trout (N=5) in upper Cee Cee Ah Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (ng) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae Brachycentridae	3.6 0.2 (27.5)	0.3 1.5 (0.8)	60.0 20.0	11.2
Glossosomatidae	0.6 (4.6)	0.2 (0.7)	20.0	3.2
DIPTERA				
Simuliidae	0.2 (1.5)	0.3 (1.0)	20.0	2.9
Tabanidae	0.4 (3.1)	5.4 (16.1)	20.0	5.0
COLEOPTERA				
Elmidae larvae	0.4 (3.1)	0.5 (1.6)	20.0	3.2
Haliplidae	0.2 (1.5)	0.7 (2.0)	20.0	3.0
GASTROPODA				
Lymnaeidae	0.4 (3.1)	1.2 (3.5)	40.0	6.0
BIVALVIA				
Sphaeridae	0.4 (3.1)	2.1 (6.3)	40.0	6.3
HEMIPTERA				
Gerridae	0.2 (1.5)	1.9 (5.8)	20.0	3.5
TERRESTRIAL ORGANISMS				
TRICHOPTERA	0.8 (6.1)	0.3 (1.0)	40.0	6.0
HOMOPTERA				
Cicadellidae	1.8 (13.8)	4.3 (13.0)	60.0	11.1
Cercopidae	0.8 (6.1)	1.7 (5.1)	40.0	6.6
HYMENOPTERA				
Formicidae	1.6 (12.3)	3.1 (9.2)	40.0	7.9
Apidae	0.4 (3.1)	8.9 (29.6)	20.0	6.4
ARANEIDA	0.4 (3.1)	0.5 (1.6)	40.0	5.7
HEMIPTERA				
Pentatomidae	0.4 (3.1)	0.3 (0.7)	40.0	5.6
DIPLOPODA	0.2 (1.5)	0.2 (0.5)	20.0	2.8

Table F.132. October feeding habits of 3+ brown trout (N=1) in lower Cee Cee Ah Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	1.0 (10.0)	0.6 (1.2)	100.0	15.9
Hydropsychidae	1.0 (10.0)	3.3 (6.7)	100.0	16.7
DIPTERA				
Tipulidae	1.0 (10.0)	13.0 (26.3)	100.0	19.5
TERRESTRIAL ORGANISMS				
HOMOPTERA				
Cercopidae	3.0 (30.0)	5.4 (10.9)	100.0	20.1
UNIDENTIFIED	4.0 (40.0)	27.1 (54.9)	100.0	127.8

Table F.133. September feeding habits of 4+ brown trout (N=2) in lower Cee Cee Ah Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	2.5 (7.8)	0.3 (0.5)	50.0	6.1
EPHEMEROPTERA				
Ephemereilidae	1.0 (3.1)	0.6 (0.9)	50.0	5.7
DIPTERA				
Chironomidae pupae	1.0 (3.1)	0.1 (0.2)	50.0	5.6
Tabanidae	0.5 (1.6)	2.5 (3.4)	50.0	5.8
COLEOPTERA				
Elmidae larvae	0.5 (1.6)	1.4 (1.9)	50.0	5.6
TERRESTRIAL ORGANISMS				
TRICHOPTERA	8.5 (26.6)	1.3 (1.8)	50.0	8.2
PLECOPTERA	1.5 (4.7)	3.2 (4.3)	50.0	6.2
HOMOPTERA				
Cercopidae	1.0 (3.1)	6.3 (8.4)	50.0	6.5
HYMENOPTERA				
Formicidae	10.0 (31.2)	46.5 (61.9)	50.0	15.1
Ichneumonidae	0.5 (1.6)	1.5 (2.1)	50.0	5.6
ARANEIDA	0.5 (1.6)	0.1 (0.1)	50.0	5.4
HEMIPTERA				
Pentatomidae	1.0 (3.1)	9.9 (13.2)	50.0	7.0
Unidentified	0.5 (1.6)	0.1 (0.1)	50.0	5.4
DIPLOPODA	0.5 (1.6)	0.7 (1.0)	50.0	5.5
UNIDENTIFIED	2.5 (7.8)	0.2 (0.27)	50.0	6.1

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Table F.134. June feeding habits of 0+ brook trout (N=5) in Tacoma Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
Ephemeroptera				
Heptageniidae	0.8 (6.2)	<0.1 (9.1)	60.0	18.8
Diptera				
Chironomidae larvae	11.6 (90.6)	0.2 (72.7)	100.0	65.8
Simuliidae	0.2 (1.6)	<0.1 (9.1)	20.0	7.7
Tipulidae	0.2 (1.6)	0.02 (9.1)	20.0	7.7

Table F.135. July feeding habits of 0+ brook trout (N=3) in Tacoma Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
Diptera				
Chironomidae larvae	0.3 (3.3)	<0.1 (3.4)	33.3	4.6
Chironomidae pupae	0.7 (6.7)	<0.1 (3.4)	66.7	8.9
Tipulidae	0.3 (3.3)	0.5 (55.2)	33.3	10.6
Muscidae	1.0 (10.0)	<0.1 (3.4)	33.3	5.4
TERRESTRIAL ORGANISMS				
Diptera				
Mycetophilidae	0.3 (3.3)	<0.1 (3.4)	33.3	4.6
Coleoptera				
Staphylinidae	0.7 (6.7)	<0.1 (3.4)	33.3	5.0
Hemiptera				
Aphididae	1.0 (10.0)	<0.1 (3.4)	33.3	5.4
Cicadellidae	0.3 (3.3)	<0.1 (3.4)	33.3	4.6
Psyllidae	1.3 (13.3)	<0.1 (3.4)	100.0	13.5
Lepidoptera	0.7 (6.7)	<0.1 (3.4)	66.7	8.9
Hymenoptera				
Formicidae	0.3 (3.3)	<0.1 (3.4)	33.3	4.6
Mymaridae	1.3 (13.3)	<0.1 (3.4)	66.7	9.6
Collembola				
Entomobryidae	0.7 (6.7)	<0.1 (3.4)	66.7	8.9
Unidentified	1.0 (10.0)	<0.1 (3.4)	33.3	5.4

Table F.136. September feeding habits of 0+ brook trout (N=6) in Tacoma Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.8 (8.3)	0.4 (3.8)	16.7	3.9
Brachycentridae	0.3 (3.3)	1.6 (14.9)	16.7	4.8
Hydropsychidae	0.2 (1.7)	0.4 (3.5)	16.7	3.0
Hydroptilidae	0.7 (6.7)	0.2 (2.0)	50.0	8.0
EPHEMEROPTERA				
Ephemerellidae	0.2 (1.7)	0.5 (4.7)	16.7	3.1
Baetidae	0.3 (3.3)	0.2 (1.5)	16.7	2.9
DIPTERA				
Chironomidae larvae	1.7 (16.7)	1.0 (9.2)	66.7	12.6
Chironomidae pupae	1.8 (18.3)	0.3 (2.7)	50.0	9.7
Simuliidae	0.3 (3.3)	0.4 (4.1)	16.7	3.3
Ceratopogonidae	0.5 (5.0)	0.3 (2.4)	33.3	5.6
PLECOPTERA				
Perlodidae	0.2 (1.7)	0.4 (3.5)	16.7	3.0
Nemouridae	0.2 (1.7)	0.3 (2.4)	16.7	2.8
COLEOPTERA				
Elmidae larvae	0.3 (3.3)	0.1 (1.1)	33.3	5.1
HYDRACARINA	1.2 (11.7)	0.2 (2.0)	33.3	6.4
NEMATODA	0.2 (1.67)	<0.1 (0.1)	16.7	2.5
TERRRESTRIAL ORGANISMS				
COLEOPTERA				
Carabidae	0.2 (1.7)	0.3 (2.7)	16.7	2.9
Staphylinidae	0.2 (1.7)	0.5 (4.5)	16.7	3.1
HOMOPTERA				
Cicadellidae	0.2 (1.7)	0.5 (5.0)	16.7	3.2
HYMENOPTERA				
Formicidae	0.3 (3.3)	0.4 (3.6)	33.3	5.5
OLIGOCHAETA				
Lumbriculidae	0.2 (1.7)	2.4 (21.9)	16.7	5.5
DIPLOPODA	0.2 (1.7)	0.5 (4.7)	16.7	3.1

Table F.137. October feeding habits of 0+ brook trout (N=6) in Tacoma Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Brachycentridae	0.3 (4.4)	2.8 (61.7)	33.3	19.9
Hydroptilidae	0.2 (2.2)	<0.1 (0.4)	16.7	3.8
EPHEMEROPTERA				
Baetidae	1.5 (20.0)	0.1 (1.8)	50.0	14.4
Heptageniidae	0.5 (6.7)	0.22(4.7)	33.3	8.9
PLECOPTERA				
Perlodidae	1.7 (22.2)	1.0 (21.3)	66.7	22.0
Nemouridae	1.7 (22.2)	0.4 (8.7)	50.0	16.2
COLEOPTERA				
Elmidae larvae	0.8 (11.1)	<0.1 (0.4)	16.7	5.6
HYDRACARINA	0.2 (2.2)	0.2 (0.4)	16.7	3.8
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Elmidae adult	0.7 (8.9)	<0.1 (0.7)	16.7	5.3

Table F.138. June feeding habits of 1+ brook trout (N=11) in Tacoma Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	2.0 (17.6)	1.9 (21.9)	54.5	15.7
Brachycentridae	3.1 (27.2)	0.5 (6.1)	44.4	13.0
Hydropsychidae	0.1 (0.8)	0.2 (2.8)	9.1	2.1
EPEHEMEROPTERA				
Ephemerellidae	0.2 (1.6)	0.6 (7.4)	9.1	3.0
Heptageniidae	0.1 (0.8)	0.1 (0.5)	9.1	1.7
DIPTERA				
Chironomidae larvae	2.8 (24.8)	0.2 (2.9)	72.7	16.8
Chironomidae pupae	0.2 (1.6)	0.2 (2.1)	9.1	2.1
Simuliidae	0.3 (2.4)	0.1 (1.7)	18.2	3.7
Tipulidae	0.4 (4.0)	1.2 (13.4)	27.3	7.5
Ceratopogonidae	0.1 (0.8)	<0.1 (0.3)	9.1	1.7
COLEOPTERA				
Elmidae larvae	0.2 (1.6)	0.2 (2.3)	18.2	3.7
Dytiscidae	0.1 (0.8)	0.2 (2.7)	9.1	2.1
BIVALVIA				
Sphaeriidae	0.3 (2.4)	0.4 (5.1)	27.3	5.8
TERRESTRIAL ORGANISMS				
EPEHEMEROPTERA	0.1 (0.8)	0.5 (5.9)	9.1	2.6
COLEOPTERA				
Elmidae adult	0.4 (3.2)	0.2 (2.7)	18.2	4.0
Chrysomelidae	0.1 (0.8)	0.4 (4.5)	9.1	2.4
Curculionidae	0.7 (6.4)	0.9 (9.7)	27.3	7.2
HOMOPTERA				
Cicadellidae	0.2 (1.6)	0.3 (3.3)	9.1	2.3
ARANEIDA	0.1 (0.8)	0.4 (4.7)	9.1	2.4

Table F.139. July feeding habits of 1+ brook trout (N=11) in Tacoma Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.5 (7.8)	0.1 (1.1)	18.2	4.6
Rhyacophilidae	0.2 (2.6)	0.1 (0.5)	18.2	3.7
Hydropsychidae	0.1 (1.3)	0.5 (4.9)	9.1	2.6
EPHEMEROPTERA				
Heptageniidae	0.3 (3.9)	<0.1 (0.1)	27.3	5.37
DIPTERA				
Chironomidae larvae	0.1 (1.3)	<0.1 (0.1)	9.1	1.8
Ceratopogonidae	0.2 (2.6)	2.7 (26.9)	9.1	6.6
COLEOPTERA				
Elmidae larvae	0.1 (1.3)	0.5 (5.2)	9.1	2.7
UNIDENTIFIED	0.2 (2.6)	0.1 (1.3)	18.2	3.8
TERRESTRIAL ORGANISMS				
TRICHOPTERA	0.2 (2.6)	0.1 (0.8)	18.2	3.7
PLECOPTERA	0.1 (1.3)	0.2 (2.1)	9.1	2.1
COLEOPTERA				
Elmidae adult	0.7 (10.4)	0.1 (1.2)	36.4	8.2
Curculionidae	0.1 (1.3)	0.3 (3.2)	9.1	2.3
HOMOPTERA				
Psyllidae	0.6 (9.1)	0.1 (0.6)	9.1	3.2
HYMENOPTERA				
Formicidae	1.2 (16.9)	1.1 (10.9)	63.6	15.7
Eulophidae	0.1 (1.3)	<0.1 (0.1)	9.1	1.8
ARANEDIA	0.3 (3.9)	0.3 (3.0)	27.3	5.9
LEPIDOPTERA	1.7 (24.7)	0.3 (3.6)	54.5	14.2
OLIGOCHAETA				
Lumbriculides	0.1 (1.3)	3.2 (33.2)	9.1	7.5
UNIDENTIFIED TERRESTRIALS	0.3 (3.9)	0.1 (1.1)	18.2	4.0

Table F.140. September feeding habits of 1+ brook trout (N=9) in Tacoma Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (ng) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Brachycentridae	3.1 (24.3)	0.4 (2.5)	77.8	14.3
Rhyacophilidae	0.1 (0.9)	0.1 (0.4)	11.1	1.7
Hydropsychidae	0.1 (0.9)	0.1 (0.7)	11.1	1.7
EPTHEMEROPTERA				
Baetidae	0.6 (4.3)	0.1 (0.8)	22.2	3.7
Heptageniidae	0.1 (0.9)	0.3 (1.7)	11.1	1.9
DIPTERA				
Chironomidae larvae	1.2 (9.6)	0.2 (1.2)	44.4	7.5
Chironomidae pupae	1.1 (8.7)	0.1 (0.8)	33.3	5.8
Ceratopogonidae	0.3 (2.6)	<0.1 (0.1)	22.2	3.4
PLECOPTERA				
Perlodidae	0.1 (0.9)	0.2 (1.0)	11.1	1.8
COLEOPTERA				
Elmidae larvae	0.1 (0.9)	0.1 (0.5)	11.1	1.7
HYDRACARINA	0.4 (3.5)	0.2 (1.0)	22.2	3.6
NEMATODA	0.1 (0.9)	0.1 (0.7)	11.1	1.7
BIVALVIA				
Sphaeriidae	0.2 (1.7)	0.2 (1.4)	22.2	3.5
HEMIPTERA				
Corixidae	0.1 (0.9)	0.5 (3.3)	11.1	2.1
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Elmidae adult	0.6 (4.3)	0.3 (1.8)	22.2	3.9
Byrrhidae	0.2 (1.7)	0.3 (2.3)	11.1	2.1
Buprestidae	0.1 (0.9)	0.5 (3.6)	11.1	2.1
Lagriidae	0.1 (0.9)	4.9 (32.9)	11.1	6.1
HOMOPTERA				
Cicadellidae	0.7 (5.2)	0.5 (3.6)	33.3	5.7
HYMENOPTERA				
Formicidae	2.8 (21.7)	5.1 (33.8)	66.7	16.7
Ichneumonidae	0.2 (1.7)	0.3 (1.8)	22.2	3.5
ARANEIDA	0.2 (1.7)	0.6 (4.0)	22.2	3.8
HEMIPTERA				
Miridae	0.1 (0.9)	<0.1 (0.1)	11.1	1.6

Table F.141. October feeding habits of 1+ brook trout (N=7) in Tacoma Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	1.0 (2.9)	0.4 (2.0)	71.4	6.1
Brachycentridae	2.0 (5.9)	0.4 (2.1)	85.7	7.5
Hydroptilidae	0.4 (1.3)	<0.1 (0.1)	14.3	1.3
Hydropsychidae	0.4 (1.3)	1.1 (6.0)	42.9	4.0
Lepidostomatidae	0.1 (0.4)	0.1 (0.7)	14.3	1.2
EPHEMPTERA				
Ephemerellidae	1.0 (2.9)	0.3 (1.4)	42.9	3.8
Baetidae	1.9 (5.5)	<0.1 (0.1)	71.4	6.2
Heptageniidae	1.4 (4.2)	0.3 (1.5)	85.7	7.4
DIPTERA				
Chironomidae larvae	2.0 (5.9)	<0.1 (0.2)	71.4	6.2
Simuliidae	1.4 (4.2)	0.7 (3.8)	71.4	6.4
Ceratopogonidae	0.1 (0.4)	0.2 (1.0)	14.3	1.3
PLECOPTERA				
Perlodidae	2.4 (7.1)	0.7 (4.1)	57.1	5.5
Nemouridae	12.9 (37.8)	5.0 (26.4)	85.7	12.0
COLEOPTERA				
Elmidae larvae	0.6 (1.7)	0.5 (2.9)	57.1	5.0
Hydrophilidae	0.6 (1.7)	0.4 (2.1)	28.6	2.6
HYDRACARINA	0.1 (0.4)	0.1 (0.4)	14.3	1.2
NEMATODA	0.3 (0.8)	0.2 (1.1)	14.3	1.3
BIVALVIA				
Sphaeriidae	0.1 (0.4)	0.2 (1.0)	14.3	1.0
TERRESTRIAL ORGANISMS				
DIPTERA				
Sciaridae	0.1 (0.4)	0.2 (1.0)	14.3	1.26
COLEOPTERA				
Elmidae adult	3.0 (8.8)	1.1 (5.9)	57.1	5.8
Staphylinidae	0.1 (0.4)	0.4 (2.3)	14.3	1.37
HOMOPTERA				
Cicadellidae	0.1 (0.4)	0.1 (0.8)	14.3	1.2
HYMENOPTERA				
Formicidae	0.3 (0.8)	0.3 (1.4)	28.6	2.5
ARANEIDA	0.1 (0.4)	0.3 (1.6)	14.3	1.3
LEPIDOPTERA	0.1 (0.4)	0.6 (3.2)	14.3	1.4
OLIGOCHAETA				
Lumbriculidae	1.1 (3.36)	5.1 (27.0)	28.6	4.7

Table F.142. March feeding habits of 2+ brook trout (N=2) in Tacoma Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	1.5 (6.4)	1.3 (7.9)	50.0	7.6
Brachycentridae	10.5 (44.7)	1.2 (7.6)	100.0	17.9
Rhyacophilidae	0.5 (2.1)	0.1 (0.3)	50.0	6.2
Hydropsychidae	0.5 (2.1)	0.2 (1.2)	50.0	6.3
DIPTERA				
Chironomidae larvae	0.5 (2.1)	0.1 (0.3)	50.0	6.2
Tipulidae	0.5 (2.1)	0.8 (5.2)	50.0	6.7
PLECOPTERA				
Perlodidae	1.0 (4.3)	7.3 (44.9)	100.0	17.5
Nemouridae	7.5 (31.9)	2.7 (16.8)	100.0	17.5
LEPIDOPTERA				
Pyralidae	0.5 (2.1)	2.5 (15.3)	50.0	7.9
TERRESTRIAL ORGANISMS				
PLECOPTERA	0.5 (2.1)	0.1 (0.3)	50.0	6.2

Table F.143. June feeding habits of 2+ brook trout (N=6) in Tacoma Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	7.3 (51.8)	24.3 (42.7)	100.0	26.5
Brachycentridae	0.7 (4.7)	0.5 (0.8)	50.0	7.6
Rhyacophilidae	0.3 (2.3)	1.8 (3.1)	33.3	5.3
Hydropsychidae	0.3 (2.3)	0.7 (1.2)	33.3	5.0
EPHEMEROPTERA				
Ephemerellidae	1.2 (8.2)	3.8 (6.7)	50.0	8.9
DIPTERA				
Chironomidae larvae	0.2 (1.2)	0.2 (0.4)	16.7	2.5
Simuliidae	0.2 (1.2)	0.6 (1.1)	16.7	2.6
Tipulidae	0.2 (1.2)	5.8 (10.1)	16.7	3.8
COLEOPTERA				
Elmidae larvae	0.7 (4.7)	2.8 (4.8)	16.7	3.6
Elmidae adult	0.7 (4.7)	0.3 (0.6)	33.3	5.3
Hydrophilidae	0.2 (1.2)	10.2 (17.9)	16.7	4.9
Amphizoidae	0.2 (1.2)	0.8 (1.5)	16.7	2.6
TERRESTRIAL ORGANISMS				
TRICHOPTERA	0.5 (3.5)	1.4 (2.4)	16.7	3.1
DIPTERA				
Bibionidae	0.2 (1.2)	0.2 (0.5)	16.7	2.5
COLEOPTERA				
Chrysomeloidea	0.3 (2.3)	0.2 (0.3)	16.7	2.6
HOMOPTERA				
Psyllidae	0.2 (1.2)	0.4 (0.7)	16.7	2.5
ARANEIDA	0.2 (1.2)	0.6 (1.0)	16.7	2.6
LEPIDOPTERA	0.2 (1.2)	2.1 (3.7)	16.7	2.9
UNIDENTIFIED	0.7 (4.7)	0.2 (0.3)	33.3	5.2

Table F.144. July feeding habits of 2+ brook trout (N=5) in Tacoma Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHTERA				
Limnephilidae	1.6 (10.5)	1.1 (1.9)	80.0	13.6
Brachycentridae	1.6 (10.5)	0.6 (1.1)	40.0	7.6
Rhyacophilidae	0.2 (1.3)	1.3 (2.3)	20.0	3.5
EPTHEMEROPTERA				
Heptagenidae	0.2 (1.3)	<0.1 (0.1)	20.0	3.1
DIPTERA				
Chironomidae larvae	0.8 (5.3)	0.4 (0.8)	60.0	9.7
Simuliidae	0.4 (2.6)	0.3 (0.5)	20.0	3.4
Muscidae	0.2 (1.3)	0.3 (0.5)	20.0	3.2
COLEOPTERA				
Elmidae adult	1.2 (7.9)	16.7 (29.5)	60.0	14.3
Hydrophilidae	0.2 (1.3)	0.1 (0.2)	20.0	3.2
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	1.6 (10.5)	1.0 (1.8)	40.0	7.7
Ichneumonidae	0.2 (1.3)	0.3 (0.5)	20.0	3.2
Apidae	0.2 (1.3)	1.6 (2.8)	20.0	3.5
LEPIDOPTERA	6.6 (43.4)	2.9 (5.2)	40.0	13.0
OLIGOCHAETA				
Lumbriculidae	0.2 (1.3)	29.9 (52.8)	20.0	10.9

Table F.145. September feeding habits of 2+ brook trout (N=2) in Tacoma Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
NEMATODA	1.5 (15.8)	1.8 (0.2)	50.0	14.7
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Ostomide	0.5 (5.3)	1.3 (0.2)	50.0	12.3
HOMOPTERA				
Aphididae	0.5 (5.3)	8.8 (1.09)	50.0	12.5
HYMENOPTERA				
Formicidae	5.0 (52.6)	61.2 (7.6)	50.0	24.5
LEPIDOPTERA	2.0 (21.0)	733.0 (90.9)	50.0	36.0

Table F.146. October feeding habits of 2+ brook trout (N=3) in Tacoma Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Lepidostomatidae	0.3 (2.3)	0.3 (1.8)	33.3	4.9
EPTHEMEROPTERA				
Baetidae	1.0 (6.8)	1.6 (8.8)	66.7	10.7
Heptageniidae	0.3 (2.3)	1.8 (9.9)	33.3	5.9
DIPTERA				
Chironomidae larvae	1.7 (11.4)	0.5 (2.9)	66.7	10.6
Chironomidae pupae	0.3 (2.3)	0.6 (3.1)	33.3	5.0
PLECOPTERA				
Perlodidae	2.7 (18.2)	0.8 (4.6)	100.0	16.0
HYDRACARINA	0.3 (2.3)	0.9 (4.9)	33.3	5.3
NEMATODA	6.7 (45.4)	0.5 (2.7)	100.0	19.3
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Carabidae	0.3 (2.3)	9.1 (50.0)	33.3	11.2
ARANEIDA	0.3 (2.3)	0.4 (2.0)	33.3	4.9
UNIDENTIFIED	0.7 (4.5)	1.7 (9.2)	33.3	6.1

Table F.147. July feeding habits of 0+ cutthroat trout (N=1) in Tacoma Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
DIPTERA				
Chironomidae larvae	6.0 (11.1)	0.1 (2.6)	100.0	28.4
TERRESTRIAL ORGANISMS				
LEPIDOPTERA	8.0 (88.89)	3.8 (97.4)	100.0	71.6

Table F.148. October feeding habits of 0+ cutthroat trout (N=1) in Tacoma Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
PLECOPTERA				
Nemouridae	1.0 (100.0)	0.8 (100.0)	100.0	100.0

Table F.149. September feeding habits of 1+ cutthroat trout (N=1) in Tacoma Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI
AQUATIC ORGANISMS				
NEMATODA	2.0 (66.7)	205.4 (97.6)	100.0	66.1
TERRESTRIAL ORGANISMS				
LEPIDOPTERA	1.0 (33.33)	5.0 (2.4)	100.0	33.9

Table F.150. October feeding habits of 1+ cutthroat trout (N=4) in Tacoma Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	1.7 (11.9)	77.2 (75.8)	75.0	21.0
Hydropsychidae	0.2 (1.7)	1.1 (1.1)	25.0	3.6
EPHEMEROPTERA				
Ephemerellidae	0.5 (3.4)	1.0 (1.0)	25.0	3.8
Baetidae	1.2 (8.5)	0.6 (0.6)	50.0	7.6
DIPTERA				
Chironomidae larvae	0.5 (3.4)	2.9 (2.9)	50.0	7.3
Simuliidae	0.5 (3.4)	0.3 (0.3)	50.0	6.9
Tipulidae	0.2 (1.7)	0.7 (0.7)	25.0	3.5
PLECOPTERA				
Perlodidae	3.0 (15.2)	0.7 (0.7)	50.0	8.5
Nemouridae	4.2 (28.8)	1.2 (1.2)	100.0	16.8
COLEOPTERA				
Elmidae larvae	0.2 (1.7)	2.7 (2.6)	25.0	3.8
HYDRACARINA	0.2 (1.7)	1.6 (1.6)	25.0	3.6
NEMATODA	2.0 (15.6)	0.6 (0.6)	50.0	8.8
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Elmidae adult	0.7 (5.1)	10.9 (10.7)	25.0	5.3

Table F.151. July feeding habits of 2+ cutthroat trout (N=2) in Tacoma Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	2.0 (10.5)	1.1 (2.8)	50.0	6.0
DIPTERA				
Chironomidae larvae	1.0 (5.3)	0.1 (0.4)	50.0	5.3
Ceratopogonidae	0.5 (2.6)	0.2 (0.6)	50.0	5.1
Muscidae	1.0 (5.3)	0.2 (0.5)	50.0	5.3
TERRESTRIAL ORGANISMS				
PLECOPTERA	0.5 (2.6)	2.3 (5.9)	50.0	5.6
DIPTERA				
Unidentified	0.5 (2.6)	0.7 (1.8)	50.0	5.2
COLEOPTERA				
Elmidae adult	1.0 (5.3)	4.9 (12.7)	100.0	11.2
Elateridae	0.5 (2.6)	1.0 (2.7)	50.0	5.3
Buprestidae	0.5 (2.6)	1.8 (4.7)	50.0	5.5
Coccinellidae	0.5 (2.6)	11.8 (30.7)	50.0	7.9
HOMOPTERA				
Aphididae	1.0 (5.3)	0.1 (0.1)	50.0	5.3
Formicidae	3.0 (15.8)	4.1 (10.7)	100.0	12.1
ARANEIDA	1.0 (5.3)	4.4 (11.5)	50.0	6.4
LEPIDOPTERA	6.0 (31.5)	5.7 (14.7)	100.0	13.9

Table F.152. October feeding habits of 2+ cutthroat trout (N=1) in Tacoma Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
PLECOPTERA				
Perlodidae	1.0 (50.0)	1.5 (50.0)	100.0	50.0
Nemouridae	1.0 (50.0)	1.5 (50.0)	100.0	50.0

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Table F.153. April feeding habits of 0+ brook trout (N=2) in upper Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.5 (2.7)	4.2 (95.5)	50.0	26.9
EPHEMEROPTERA				
Heptageniidae	1.0 (5.4)	0.1 (1.1)	50.0	10.3
DIPTERA				
Chironomidae larvae	7.5 (40.5)	0.1 (1.1)	100.0	25.8
Chironomidae pupae	9.0 (48.6)	0.1 (1.1)	100.0	27.2
Simuliidae	0.5 (2.7)	0.1 (1.1)	50.0	9.8

Table F.154. June feeding habits of 0+ brook trout (N=8) in upper Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
EPHEMEROPTERA				
Ephemerellidae	1.9 (16.5)	2.2 (42.4)	87.5	28.6
Baetidae	4.7 (41.8)	1.2 (23.1)	75.0	27.3
DIPTERA				
Chironomidae larvae	0.4 (3.3)	0.1 (1.6)	37.5	8.3
Chironomidae pupae	3.6 (31.9)	1.3 (23.8)	50.0	20.6
Simuliidae	0.1 (1.1)	0.2 (4.7)	12.5	3.6
HYDRACARINA	0.2 (2.2)	<0.1 (0.2)	12.5	2.9
TERRESTRIAL ORGANISMS				
PLECOPTERA	0.1 (1.1)	0.1 (1.6)	12.5	3.0
HOMOPTERA				
Aphididae	0.1 (1.1)	0.1 (1.6)	12.5	3.0
HYMENOPTERA				
Formicidae	0.1 (1.1)	<0.1 (0.7)	12.5	2.8

Table F.155. July feeding habits of 0+ brook trout (N=1) in lower Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	1.0 (25.0)	0.1 (6.7)	100.0	21.9
DIPTERA				
Chironomidae larvae	1.0 (25.0)	0.1 (6.7)	100.0	21.9
COLEOPTERA				
Hydrophilidae	1.0 (25.0)	1.2 (80.0)	100.0	34.2
TERRESTRIAL ORGANISMS				
COLLEMBOLA				
Sminthuridae	1.0 (25.0)	0.1 (6.7)	100.0	21.9

Table F.156. July feeding habits of 0+ brook trout (N=9) in upper Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	1.7 (31.2)	<0.1 (3.0)	77.8	21.5
Brachycentridae	0.1 (2.1)	<0.1 (3.0)	11.1	3.1
Rhyacophilidae	0.1 (2.1)	<0.1 (3.0)	11.1	3.1
Glossosomatidae	0.1 (2.1)	<0.1 (3.0)	11.1	3.1
EPTHEMEROPTERA				
Baetidae	0.2 (4.2)	<0.1 (3.0)	11.1	3.5
DIPTERA				
Chironomidae larvae	0.3 (6.2)	<0.1 (3.0)	22.2	6.0
Chironomidae pupae	0.3 (6.2)	<0.1 (3.0)	11.1	3.9
Simuliidae	0.3 (6.2)	<0.1 (3.0)	22.2	6.0
PLECOPTERA				
Nemouridae	0.3 (6.2)	<0.1 (3.0)	22.2	6.0
TERRESTRIAL ORGANISMS				
PLECOPTERA	0.1 (2.1)	<0.1 (6.1)	11.1	3.7
DIPTERA				
Mycetophilidae	0.2 (4.2)	0.1 (3.0)	22.2	5.6
Scatopsidae	0.1 (2.1)	<0.1 (3.0)	11.1	3.1
Unidentified	0.4 (8.3)	<0.1 (3.0)	22.2	6.4
HYMENOPTERA				
Formicidae	0.1 (2.1)	<0.1 (3.0)	11.1	3.1
Diapriidae	0.1 (2.1)	<0.1 (3.0)	11.1	3.1
ARANEIDA	0.6 (10.4)	<0.1 (3.0)	22.2	6.8
LEPIDOPTERA	0.1 (2.1)	0.2 (48.5)	11.1	11.8

Table F.157. September feeding habits of 0+ brook trout (N=4) in lower Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
EPHEMEROPTERA				
Baetidae	0.1 (6.9)	<0.1 (1.7)	25.0	5.6
DIPTERA				
Chironomidae larvae	0.2 (3.4)	<0.1 (1.7)	25.0	5.0
HYDRACARINA	0.1 (6.9)	<0.1 (1.7)	25.0	5.6
BIVALVIA				
Sphaeriidae	0.2 (3.4)	<0.1 (1.7)	25.0	5.0
TERRESTRIAL ORGANISMS				
DIPTERA				
Simuliidae	0.2 (3.4)	<0.1 (1.7)	25.0	5.0
Unidentified	0.1 (6.9)	<0.1 (1.7)	25.0	5.6
COLEOPTERA				
Staphylinidae	0.2 (3.4)	0.1 (1.7)	25.0	5.0
Throscidae	0.2 (3.4)	<0.1 (1.7)	25.0	5.0
HOMOPTERA				
Cicadellidae	0.2 (3.4)	<0.1 (1.7)	25.0	5.0
HYMENOPTERA				
Formicidae	1.0 (13.8)	1.0 (56.1)	50.0	20.0
Ichneumonidae	0.2 (3.4)	0.2 (15.8)	25.0	7.4
ARANEIDA	0.5 (6.9)	<0.1 (1.7)	50.0	9.8
COLLEMBOLA				
Sminthuridae	2.5 (34.5)	0.2 (10.5)	50.0	15.8

Table F.158. September feeding habits of 0+ brook trout (N=9) in upper Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (ng) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Rhyacophilidae	1.7 (6.3)	1.7 (34.0)	55.6	15.5
Hydroptilidae	0.2 (0.9)	0.0 (0.2)	22.2	3.8
EPHEMEROPTERA				
Ephemerellidae	0.2 (0.9)	0.2 (3.4)	11.1	2.5
Baetidae	1.0 (3.9)	0.2 (4.3)	44.4	8.5
Hemageniidae	0.4 (1.7)	0.2 (3.7)	33.3	6.2
DIPTERA				
Chironomidae larvae	1.2 (4.8)	0.1 (2.7)	55.6	10.1
Culicidae	0.1 (0.4)	0.0 (0.2)	11.1	1.9
PLECOPTERA				
Nemuridae	0.2 (0.9)	0.2 (3.2)	22.2	4.2
COLEOPTERA				
Dytiscidae	0.1 (0.4)	0.0 (0.7)	11.1	2.0
HYDRACARINA	0.2 (0.9)	0.0 (0.2)	11.1	2.0
GASTROPODA				
Physidae	0.1 (0.4)	0.7 (13.9)	11.1	4.1
BIVALVIA				
Sphaeriidae	0.1 (0.4)	0.0 (0.2)	11.1	1.9
TERRESTRIAL ORGANISMS				
DIPTERA				
Chironomidae	18.7 (73.0)	1.6 (32.2)	44.4	24.1
Unidentified	0.6 (2.2)	0.0 (0.2)	33.3	5.7
HYMENOPTERA				
Formicidae	0.3 (1.3)	0.0 (0.2)	11.1	2.0
Ichneumonidae	0.1 (0.4)	0.0 (0.2)	11.1	1.9
UNIDENTIFIED	0.2± (0.9)	0.0 (0.2)	22.2	3.8

Table F.159. October feeding habits of 0+ brook trout (N=5) in upper Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	1.4 (10.6)	<0.1 (0.7)	60.0	9.9
EPHEMEROPTERA				
Baetidae	0.2 (1.5)	<0.1 (0.7)	20.0	3.1
DIPTERA				
Chironomidae larvae	0.2 (1.5)	<0.1 (0.7)	20.0	3.1
Culicidae	0.2 (1.5)	<0.1 (0.7)	20.0	3.1
PLECOPTERA				
Unidentified	0.4 (3.0)	0.8 (26.4)	40.0	9.6
TERRESTRIAL ORGANISMS				
TRICHOPTERA	1.0 (7.6)	0.4 (13.9)	20.0	5.8
DIPTERA				
Mycetophilidae	<0.1 (6.1)	<0.1 (0.7)	40.0	6.5
Chironomidae	5.4 (40.9)	<0.1 (0.7)	60.0	14.1
Unidentified	0.8 (6.1)	<0.1 (0.7)	40.0	6.5
COLEOPTERA				
Chrysomelidae	0.2 (1.5)	0.2 (6.2)	20.0	3.9
Staphylinidae	0.2 (1.5)	<0.1 (0.7)	20.0	3.1
HOMOPTERA				
Aphididae	0.2 (1.5)	<0.1 (0.7)	20.0	3.1
Cicadellidae	0.2 (1.5)	<0.1 (0.7)	20.0	3.1
HYMENOPTERA				
Unidentified	0.4 (3.0)	0.1 (2.1)	20.0	3.5
COLLEMBOLA				
Sminthuridae	0.8 (6.1)	<0.1 (0.7)	40.0	6.5
UNIDENTIFIED	0.8 (6.1)	1.3 (43.7)	60.0	15.2

Table F.160. March feeding habits of 1+ brook trout (N=8) in upper Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.7 (5.9)	0.1 (1.9)	12.5	3.5
Hydroptilidae	0.5 (3.9)	0.1 (1.5)	37.5	5.3
EPHEMEROPTERA				
Ephemerellidae	4.7 (37.2)	2.5 (38.0)	87.5	28.3
Baetidae	3.4 (26.5)	1.6 (25.5)	75.0	22.1
Heptageniidae	0.7 (5.9)	0.3 (4.1)	37.5	8.2
DIPTERA				
Chironomidae larvae	0.9 (6.9)	0.2 (2.5)	37.5	8.1
Ceratopogonidae	0.1 (1.0)	0.1 (1.2)	12.5	2.5
PLECOPTERA				
Nemouridae	0.5 (3.9)	0.43 (6.6)	25.0	6.2
HYDRACARINA	0.1 (1.0)	0.2 (2.7)	12.5	2.8
GASTROPODA				
Physidae	1.0 (7.8)	1.0 (16.0)	50.0	12.8

Table F.161. April feeding habits of 1+ brook trout (N=4) in lower Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.5 (6.4)	0.3 (0.1)	50.0	9.0
EPHEMEROPTERA				
Ephemerellidae	0.7 (9.7)	0.3 (0.1)	50.0	9.6
Baetidae	2.5 (32.3)	2.5 (0.5)	75.0	17.2
Heptageniidae	1.0 (12.9)	0.9 (0.2)	50.0	10.1
Ephemeroptera	0.5 (6.4)	<0.1 (<0.1)	25.0	5.0
DIPTERA				
Chironomidae larvae	0.5 (6.4)	<0.1 (<0.1)	50.0	9.0
Tipulidae	0.2 (3.2)	<0.1 (<0.1)	25.0	4.5
TERRESTRIAL ORGANISMS				
OLIGOCHAETA				
Lumbriculidae	1.7 (22.6)	526.2 (99.2)	100.0	35.5

Table F.162. April feeding habits of 1+ brook trout (N=7) in upper Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	2.0 (16.5)	1.6 (4.7)	71.4	11.8
Brachycentridae	0.7 (5.9)	0.4 (1.3)	28.6	4.5
Rhyacophilidae	0.1 (1.2)	0.2 (0.7)	14.3	2.0
Hydropsychidae	0.1 (1.2)	0.3 (0.9)	14.3	2.1
EPTHEMEROTERA				
Ephemerellidae	0.1 (1.2)	0.3 (1.0)	14.3	2.1
Baetidae	1.9 (15.3)	0.7 (2.0)	57.1	9.5
Heptageniidae	2.3 (18.8)	1.0 (3.0)	85.7	13.7
DIPTERA				
Chironomidae larvae	1.6 (12.9)	0.4 (1.1)	57.1	9.1
Chironomidae pupae	1.1 (9.4)	0.1 (0.3)	71.4	10.3
Empididae larvae	0.1 (1.8)	0.3 (0.8)	14.3	2.1
PLECOPTERA				
Perlodidae	0.6 (4.7)	0.5 (1.5)	42.9	6.2
GASTROPODA				
Physidae	0.1 (1.2)	27.4 (81.1)	14.3	12.3
TERRESTRIAL ORGANISMS				
ARANEIDA	0.3 (2.3)	0.1 (0.2)	28.6	4.0
OLIGOCHAETA				
Lumbriculidae	0.9 (7.1)	0.2 (0.7)	57.1	8.3
DIPLOPODA	0.1 (1.2)	0.2 (0.6)	14.3	2.0

Table F.163. June feeding habits of 1+ brook trout (N=7) in upper Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	2.1 (38.5)	2.2 (35.8)	57.1	26.3
EPHEMEROPTERA				
Baetidae	0.4 (7.7)	0.3 (5.2)	14.3	5.4
Heptageniidae	0.4 (2.6)	0.1 (1.2)	14.3	3.6
DIPTERA				
Chironomidae larvae	0.4 (2.6)	<0.1 (0.7)	14.3	3.5
Chironomidae pupae	0.4 (7.7)	0.2 (3.3)	28.6	7.9
COLEOPTERA				
Dytiscidae	0.1 (2.6)	0.2 (3.5)	14.3	4.1
HYDRACARINA	0.6 (10.3)	0.2 (2.8)	42.9	11.2
TERRESTRIAL ORGANISMS				
PLECOPTERA	0.4 (7.7)	0.6 (10.6)	42.9	12.2
HOMOPTERA				
Cicadellidae	0.1 (2.6)	0.3 (5.4)	14.3	4.4
HYMENOPTERA				
Formicidae	0.9 (15.4)	1.0 (16.0)	42.9	14.8
UNIDENTIFIED	0.1 (2.6)	0.9 (15.5)	14.3	6.5

Table F.164. July feeding habits of 1+ brook trout (N=2) in lower Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	2.0 (33.3)	5.8 (81.2)	50.0	32.9
EPHEMEROPTERA				
Ephemerellidae	2.0 (33.3)	1.2 (16.7)	100.0	30.0
Baetidae	1.0 (16.7)	0.1 (0.7)	50.0	13.5
DIPTERA				
Chironomidae pupae	0.5 (8.3)	0.1 (0.7)	50.0	11.8
PLECOPTERA				
Nemouridae	0.5 (8.3)	0.1 (0.7)	50.0	11.8

Table F.165. July feeding habits of 1+ brook trout (N=9) in upper Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	9.2 (65.3)	1.5 (23.0)	88.9	33.9
Brachycentridae	0.1 (0.8)	<0.1 (0.2)	11.1	2.3
Glossosomatidae	0.1 (0.8)	<0.1 (0.2)	11.1	2.3
EPHEMEROPTERA				
Baetidae	0.1 (0.8)	<0.1 (0.2)	11.1	2.3
DIPTERA				
Tipulidae	0.1 (0.8)	0.6 (9.2)	11.1	4.0
Stratiomyidae	0.1 (0.8)	0.6 (8.7)	11.1	3.9
PLECOPTERA				
Nemouridae	0.1 (0.8)	<0.1 (0.2)	11.1	2.3
TERRESTRIAL ORGANISMS				
DIPTERA				
Mycetophilidae	0.2 (1.6)	<0.1 (0.2)	22.2	4.6
Sciaridae	0.3 (2.4)	<0.1 (0.2)	11.1	2.6
COLEOPTERA				
Curculionidae	0.1 (0.8)	<0.1 (0.2)	11.1	2.3
Dermestidae	0.1 (0.8)	<0.1 (0.8)	11.1	2.3
HYMENOPTERA				
Formicidae	2.7 (18.9)	2.4 (36.9)	44.4	19.2
Diapriidae	0.2 (1.6)	<0.1 (0.2)	11.1	2.5
ARANEIDA	0.4 (3.1)	0.3 (3.9)	44.4	9.9
OLIGOCHAETA				
Lumbriculidae	0.1 (0.8)	1.1 (16.7)	11.1	5.5

Table F.166. September feeding habits of 1+ brook trout (N=5) in upper Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.4 (3.3)	2.3 (22.5)	20.0	7.1
EPHEMEROPTERA				
Ephemerellidae	1.0 (8.2)	1.4 (13.6)	40.0	9.6
Baetidae	3.6 (29.5)	1.0 (9.3)	80.0	18.6
DIPTERA				
Chironomidae larvae	4.4 (36.1)	0.4 (3.9)	60.0	15.6
Chironomidae pupae	0.2 (1.6)	<0.1 (0.2)	20.0	3.4
Ceratopogonidae	0.2 (1.6)	<0.1 (0.2)	20.0	3.4
PLECOPTERA				
Nemouridae	0.40 (3.3)	<0.1 (0.2)	40.0	6.8
COLEOPTERA				
Dytiscidae	0.2 (1.6)	<0.1 (0.2)	20.0	3.4
Halplidae	0.2 (1.6)	0.1 (0.6)	20.0	3.5
HYDRACARINA	0.2 (1.6)	<0.1 (0.2)	20.0	3.4
GASTROPODA				
Physidae	<0.1 (3.3)	3.7 (35.8)	40.0	12.4
BIVALVIA				
Sphaeriidae	0.8 (6.6)	1.4 (13.2)	40.0	9.3
TERRESTRIAL ORGANISMS				
ARANEIDA	0.2 (1.6)	<0.1 (0.2)	20.0	3.4

Table F.167. October feeding habits of 1+ brook trout (N=4) in upper Skookum Creek for 1989.

PRFY ITFMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	3.0 (57.1)	1.1 (4.1)	75.0	28.7
EPTHEMEROPTERA				
Heptageniidae	0.5 (9.5)	1.0 (3.9)	25.0	8.1
PLECOPTERA				
Nemouridae	0.2 (4.8)	0.1 (0.3)	25.0	6.3
Chloroperlidae	0.2 (4.8)	<0.1 (0.2)	25.0	6.3
TERRESTRIAL ORGANISMS				
TRICHOPTERA	0.2 (4.8)	1.1 (3.9)	25.0	7.1
HYMENOPTERA				
Apidae	0.2 (4.8)	12.4 (45.8)	25.0	15.9
OLIGOCHAETA				
Lumbriculidae	0.5 (9.5)	10.4 (38.4)	50.0	20.6
DIPLOPODA	0.2 (4.8)	0.9 (3.5)	25.0	7.0

Table F.168. March feeding habits of 2+ brook trout
(N=12) in upper Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	1.2 (6.4)	1.6 (14.6)	66.7	11.6
Rhyacophilidae	0.1 (0.4)	0.1 (1.3)	8.3	1.3
Hydropsychidae	0.2 (0.9)	0.8 (7.5)	16.7	3.3
Hydroptilidae	0.2 (0.9)	0.1 (0.8)	16.7	2.4
Ephemeroptera				
Ephemerellidae	5.8 (31.8)	3.3 (30.7)	91.7	20.3
Baetidae	5.9 (32.3)	1.5 (13.9)	91.7	18.2
Heptageniidae	0.9 (5.0)	0.2 (1.5)	50.0	7.5
DIPTERA				
Chironomidae larvae	1.1 (5.9)	0.3 (2.7)	33.3	5.5
Chironomidae pupae	0.1 (0.4)	0.1 (0.5)	8.3	1.2
Tipulidae	0.2 (0.9)	0.3 (3.0)	16.7	2.7
Ceratopogonidae	0.2 (1.4)	0.1 (0.4)	8.3	1.3
Empididae	0.2 (0.9)	<0.1 (0.4)	16.7	2.4
PLECOPTERA				
Perlodidae	0.3 (1.8)	0.5 (4.3)	33.3	5.2
Nemouridae	1.1 (5.9)	0.6 (5.5)	50.0	8.1
GASTROPODA				
Physidae	0.5 (2.7)	1.2 (11.2)	25.0	5.1
BIVALVIA				
Sphaeriidae	0.3 (1.8)	0.2 (1.5)	16.7	2.6
TERRESTRIAL ORGANISMS				
COLLEMBOLA				
Sminthuridae	0.1 (0.4)	<0.1 (0.1)	8.3	1.2

Table F.169. April feeding habits of 2+ brook trout (N=2) in lower Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	1.0 (3.8)	2.4 (0.1)	50.0	5.4
Brachycentridae	0.5 (1.9)	0.8 (0.1)	50.0	5.2
Rhyacophilidae	1.0 (3.8)	0.5 (<0.1)	100.0	10.4
Glossosomatidae	0.5 (1.9)	0.5 (<0.1)	50.0	5.2
EPHEMEROPTERA				
Ephemerellidae	0.5 (1.9)	0.7 (<0.1)	50.0	5.2
Baetidae	0.5 (1.9)	0.6 (<0.1)	50.0	5.2
Heptageniidae	0.5 (1.9)	3.2 (0.2)	50.0	5.2
DIPTERA				
Chironomidae larvae	1.0 (3.8)	1.3 (0.1)	50.0	5.4
Chironomidae pupae	1.0 (3.8)	0.7 (<0.1)	100.0	10.4
Empididae	0.5 (1.9)	1.5 (0.1)	50.0	5.2
PLECOPTERA				
Perlodidae	0.5 (1.9)	36.8 (2.1)	50.0	5.4
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	0.5 (1.9)	5.6 (0.3)	50.0	5.2
OLIGOCHAETA				
Lumbriculidae	18.5 (69.8)	1681.3 (96.8)	100.0	26.7

Table F.170. April feeding habits of 2+ brook trout (N=5) in upper Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	12.2 (42.4)	11.9 (6.0)	100.0	13.5
Brachycentridae	1.4 (4.9)	0.7 (0.3)	60.0	5.9
Rhyacophilidae	0.2 (0.7)	1.4 (0.7)	20.0	1.9
Ephemeroptera				
Ephemerellidae	0.4 (1.4)	0.1 (0.4)	40.0	3.8
Baetidae	1.2 (4.2)	0.9 (0.5)	80.0	7.7
Heptageniidae	2.0 (6.9)	1.8 (0.9)	60.0	6.2
DIPTERA				
Chironomidae larvae	1.8 (6.2)	0.8 (0.4)	100.0	9.7
Chironomidae pupae	0.6 (2.1)	0.4 (0.2)	60.0	5.7
Tipulidae	0.2 (0.7)	0.5 (0.3)	20.0	1.9
Ceratopogonidae	2.0 (6.9)	5.6 (2.8)	100.0	10.0
PLECOPTERA				
Perlodidae	0.6 (2.1)	4.1 (2.1)	20.0	2.2
Nemouridae	0.6 (2.1)	0.7 (0.4)	40.0	3.9
COLEOPTERA				
Dytiscidae	0.2 (0.7)	1.6 (0.8)	20.0	2.0
TERRESTRIAL ORGANISMS				
TRICHOPTERA	1.2 (4.2)	2.4 (1.2)	40.0	4.1
COLEOPTERA				
Carabidae	0.2 (0.7)	1.1 (0.6)	20.0	1.9
HYMENOPTERA				
Tenthredinidae	0.2 (0.7)	0.4 (0.2)	20.0	1.9
ARANEIDA	0.6 (2.1)	14.7 (7.4)	40.0	4.5
OLIGOCHAETA				
Lumbriculidae	3.2 (11.1)	149.1 (74.9)	60.0	13.3

Table F.171. June feeding habits of 2+ brook trout (N=4) in upper Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	7.5 (25.6)	29.7 (54.7)	75.0	16.3
EPHEMEROPTERA				
Heptageniidae	0.2 (0.8)	0.4 (0.8)	25.0	2.8
DIPTERA				
Chironomidae larvae	0.5 (1.7)	0.3 (0.6)	25.0	2.9
Chironomidae pupae	2.7 (9.4)	1.1 (2.0)	25.0	3.8
TERRESTRIAL ORGANISMS				
TRICHOPTERA	1.0 (3.4)	1.3 (2.5)	50.0	5.9
EPHEMEROPTERA	8.5 (29.1)	5.2 (9.5)	75.0	12.0
PLECOPTERA	1.5 (5.1)	2.2 (4.1)	50.0	6.2
DIPTERA				
Empididae	1.5 (5.1)	1.5 (2.8)	75.0	8.7
COLEOPTERA				
Elateridae	0.2 (0.8)	0.5 (0.9)	25.0	2.8
Carabidae	0.2 (0.8)	0.7 (1.4)	25.0	2.9
Cantharidae	0.2 (0.8)	0.8 (1.5)	25.0	2.9
Cerambycidae	0.5 (1.7)	3.0 (5.5)	25.0	3.4
Coccinellidae	0.2 (0.8)	0.8 (1.6)	25.0	2.9
Curculionidae	0.2 (0.8)	1.1 (2.1)	25.0	2.9
Dermestidae	0.2 (0.8)	0.5 (0.9)	25.0	2.8
HOMOPTERA				
Aphididae	0.2 (0.8)	0.5 (1.0)	25.0	2.8
Cicadellidae	0.2 (0.8)	0.1 (0.2)	25.0	2.7
HYMENOPTERA				
Formicidae	2.0 (6.8)	1.4 (2.6)	50.0	6.3
LEPIDOPTERA	0.2 (0.8)	<0.1 (0.1)	25.0	2.7
HEMIPTERA				
Miridae	0.2 (0.8)	0.4 (0.7)	25.0	2.8
UNIDENTIFIED	0.7 (2.6)	2.5 (4.5)	25.0	3.4

Table F.172. July feeding habits of 2+ brook trout (N=1) in lower Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	4.0 (66.7)	9.6 (57.8)	100.0	44.9
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	1.0 (16.7)	6.9 (41.6)	100.0	31.6
ARANEIDA	1.0 (16.7)	0.1 (0.6)	100.0	23.4

Table F.173. September feeding habits of 2+ brook trout (N=4) in upper Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	1.2 (13.2)	<0.1 (0.5)	50.0	8.8
Rhyacophilidae	1.2 (13.2)	0.5 (10.4)	75.0	13.6
EPHEMEROPTERA				
Ephemerellidae	1.0 (10.5)	0.7 (14.4)	50.0	10.3
Baetidae	2.5 (26.3)	1.7 (34.6)	50.0	15.3
Heptageniidae	0.2 (2.6)	0.3 (0.5)	25.0	3.9
DIPTERA				
Chironomidae larvae	0.7 (7.9)	<0.1 (0.5)	75.0	11.5
Chironomidae pupae	0.5 (5.3)	<0.1 (0.5)	25.0	4.3
COLEOPTERA				
Dytiscidae	0.2 (2.6)	<0.1 (0.5)	25.0	3.9
GASTROPODA				
Physidae	0.2 (2.6)	0.3 (5.9)	25.0	4.6
TERRESTRIAL ORGANISMS				
PLECOPTERA	0.2 (2.6)	0.5 (9.4)	25.0	5.1
DIPTERA				
Unidentified	0.5 (5.3)	<0.1 (0.5)	25.0	4.2
COLEOPTERA				
Elmidae adult	0.2 (2.6)	<0.1 (0.5)	25.0	3.9
Unidentified	0.2 (2.6)	0.7 (13.4)	25.0	5.6
HYMENOPTERA				
Formicidae	0.2 (2.6)	0.4 (8.4)	25.0	5.0

Table F.174. June feeding habits of 0+ brown trout (N=7) in lower Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISM				
TRICHOPTERA				
Hydropsychidae	0.1 (0.8)	<0.1 (0.1)	14.2	2.1
EPHEMEROPTERA				
Ephemerellidae	1.1.6 (6.5)	0.5 (6.6)	42.8	7.8
Baetidae	11.1 (63.9)	1.6 (19.2)	100.0	25.6
DIPTERA				
Chironomidae larvae	1.2 (7.3)	0.1 (1.1)	85.7	13.2
Simuliidae	0.8 (4.9)	0.1 (1.1)	42.8	6.8
Tipulidae	0.1 (0.8)	<0.1 (0.1)	14.2	2.1
Ceratopogonidae	0.1 (0.8)	<0.1 (0.1)	14.2	2.1
COLEOPTERA				
Dytiscidae	0.1 (0.8)	0.9 (10.7)	14.2	3.6
Hydrophilidae	0.1 (0.8)	1.5 (17.8)	14.2	4.6
HYDRACARINA	0.2 (1.6)	<0.1 (0.1)	14.2	2.2
TERRESTRIAL ORGANISMS				
DIPTERA				
Simuliidae	0.1 (0.8)	<0.1 (0.3)	14.2	2.1
HOMOPTERA				
Aphididae	0.5 (3.2)	0.1 (1.8)	28.5	4.7
Unidentified	0.1 (0.8)	0.2 (2.5)	14.5	2.4
HYMENOPTERA				
Braconidae	0.1 (0.8)	0.1 (2.0)	14.2	2.4
Encyrtidae	0.1 (0.8)	0.2 (2.5)	14.2	2.4
LEPIDOPTERA	0.2 (1.6)	1.1 (13.8)	28.5	6.1
OLIGOCHAETA				
Lumbriculidae	0.1 (0.8)	1.6 (19.2)	14.2	4.8
COLLEMBOLA				
Sminthuridae	0.4 (2.4)	<0.1 (0.1)	28.5	4.3

Table F.175. July feeding habits of 0+ brown trout (N=2) in lower Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	1.0 (13.3)	<0.1 (0.6)	50.0	8.5
Rhyacophilidae	0.5 (6.6)	<0.1 (0.6)	50.0	7.6
EPHEMEROPTERA				
Baetidae	1.0 (13.3)	0.4 (6.2)	50.0	9.2
DIPTERA				
Chironomidae pupae	0.5 (6.6)	0.2 (3.4)	50.0	8.0
TERRESTRIAL ORGANISMS				
DIPTERA				
Unidentified	1.5 (20.0)	1.0 (14.4)	50.0	11.2
HOMOPTERA				
Aphididae	0.5 (6.6)	<0.1 (0.6)	50.0	7.6
HYMENOPTERA				
Formicidae	0.5 (6.6)	<0.1 (0.6)	50.0	7.6
ARANEIDA	0.5 (6.6)	0.4 (6.2)	50.0	8.3
LEPIDOPTERA	0.5 (6.6)	2.4 (33.1)	50.0	11.9
OLIGOCHAETA				
Lumbriculidae	0.5 (6.6)	2.1 (28.9)	50.0	11.4
COLLEMBOLA				
Sminthuridae	0.5 (6.6)	0.3 (4.8)	50.0	8.2

Table F.176. September feeding habits of 0+ brown trout (N=7) in lower Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.1 (2.9)	<0.1 (1.4)	14.3	4.2
Glossosomatidae ¹⁰	0.1 (2.9)	0.1 (1.4)	14.3	4.2
EPHEMEROPTERA				
Ephemereilidae	0.1 (2.9)	0.3 (29.6)	14.3	10.6
Baetidae	1.1 (23.5)	0.3 (29.6)	42.9	21.7
Heptageniidae	0.3 (5.9)	0.2 (16.9)	14.3	8.4
DIPTERA				
Chironomidae larvae	0.1 (2.9)	<0.1 (2.8)	14.3	4.5
PLECOPTERA				
Nemouridae	0.1 (2.9)	<0.1 (1.4)	14.3	4.2
COLEOPTERA				
Dytiscidae	0.1 (2.9)	<0.1 (1.4)	14.3	4.2
BIVALVIA				
Sphaeriidae	0.1 (2.9)	<0.1 (1.4)	14.3	4.2
TERRESTRIAL ORGANISMS				
DIPTERA				
Dixidae	0.3 (5.9)	<0.1 (1.4)	14.3	4.9
Ephydriidae	0.1 (2.9)	0.1 (7.0)	14.6	5.5
Unidentified	0.1 (2.9)	<0.1 (2.8)	14.3	4.5
HOMOPTERA				
Aphididae	0.1 (2.9)	<0.1 (1.4)	14.3	4.2
COLLEMBOLA				
Sminthuridae	1.7 (35.3)	0.1 (1.4)	28.6	14.7

Table F.177. October feeding habits of 0+ brown trout (N=5) in lower Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.6 (17.7)	<0.1 (0.3)	40.0	13.8
EPTHEMEROPTERA				
Baetidae	1.0 (29.4)	<0.1 (0.7)	40.0	16.7
DIPTERA				
Chironomidae larvae	0.2 (5.9)	<0.1 (0.3)	20.0	6.2
Simuliidae	0.2 (5.9)	<0.1 (0.3)	20.0	6.2
PLECOPTERA				
Nemouridae	0.6 (17.7)	<0.1 (0.3)	40.0	13.8
BIVALVIA				
Sphaeriidae	0.4 (11.8)	<0.1 (0.3)	20.0	7.6
TERRESTRIAL ORGANISMS				
DIPTERA				
Mycetophilidae	0.2 (5.9)	<0.1 (0.3)	20.0	6.2
OLIGOCHAETA				
Lumbriculidae	0.2 (5.9)	5.9 (97.3)	20.0	29.3

Table F.178. October feeding habits of 0+ brown trout (N=1) in upper Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	4.0 (100.0)	10.1 (100.0)	100.0	100.0

Table F.179. March feeding habits of 1+ brown trout (N=7) in lower Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
EPHEMEROPTERA				
Ephemerellidae	0.7 (29.4)	1.2 (37.0)	42.9	28.4
Baetidae	0.3 (11.8)	0.1 (3.9)	14.3	7.8
Heptageniidae	0.3 (11.8)	0.4 (10.8)	28.6	13.3
DIPTERA				
Chironomidae larvae	0.3 (11.8)	<0.1 (0.4)	14.3	6.9
PLECOPTERA				
Perlodidae	0.3 (11.8)	1.1 (34.0)	28.6	19.3
Nemouridae	0.4 (17.7)	0.4 (11.2)	42.9	18.6
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Elmidae adult	0.1 (5.9)	<0.1 (2.6)	14.3	5.9

Table F.180. April feeding habits of 1+ brown trout (N=6) in lower Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.1 (1.8)	0.2 (4.6)	16.7	5.1
EPHEMEROPTERA				
Ephemerellidae	0.5 (5.4)	0.7 (12.7)	33.3	11.4
Baetidae	2.5 (26.8)	1.7 (33.7)	50.0	24.6
Heptageniidae	5.7 (60.7)	2.3 (44.8)	100.0	45.7
DIPTERA				
Chironomidae pupae	0.6 (1.8)	<0.1 (0.3)	16.7	4.1
Simuliidae	0.1 (1.8)	0.1 (2.6)	16.7	4.7
PLECOPTERA				
Nemouridae	0.1 (1.8)	0.1 (1.3)	16.7	4.4

Table F.181. June feeding habits of 1+ brown trout (N=3) in lower Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.3 (0.8)	<0.1 (0.1)	33.3	4.3
Rhyacophilidae	0.3 (0.8)	0.4 (1.7)	33.3	4.5
EPTHEMEROPTERA				
Ephemereilidae	3.7 (8.5)	4.4 (18.3)	66.7	11.7
Baetidae	31.3 (72.9)	8.4 (34.9)	100.0	26.0
Heptageniidae	1.3 (3.1)	1.5 (6.2)	33.3	5.3
DIPTERA				
Chironomidae larvae	3.3 (7.8)	<0.1 (0.1)	100.0	13.5
COLEOPTERA				
Elmidae larvae	0.7 (1.6)	<0.1 (0.1)	33.3	4.4
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Carabidae	0.3 (0.8)	2.2 (9.0)	33.3	5.4
HYMENOPTERA				
Formicidae	0.7 (1.6)	0.4 (1.5)	66.7	8.7
ARANEIDA	0.3 (0.8)	0.5 (2.2)	33.3	4.5
LEPIDOPTERA	0.3 (0.8)	0.2 (0.8)	33.3	4.4
OLIGOCHAETA				
Lumbriculidae	0.3 (0.8)	6.0 (24.9)	33.3	7.4

Table F.182. July feeding habits of 1+ brown trout (N=11) in lower Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	1.5 (33.3)	0.6 (10.3)	72.7	25.1
Glossosomatidae	0.5 (10.4)	0.2 (3.9)	9.1	5.1
EPTHEMEROPTERA				
Ephemerellidae	0.7 (16.7)	0.9 (15.9)	54.6	18.8
Baetidae	0.9 (20.8)	0.6 (9.8)	54.6	18.4
Heptageniidae	0.1 (2.1)	0.3 (5.1)	9.1	3.5
PLECOPTERA				
Perlodidae	0.4 (8.3)	0.1 (17.8)	27.3	11.5
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	0.1± (2.1)	0.1 (0.2)	9.1	2.5
LEPIDOPTERA	0.1 (2.1)	0.7 (11.8)	9.1	5.0
HEMIPTERA				
Miridae	0.1 (2.1)	0.1 (1.6)	9.1	2.8
OLIGOCHAETA				
Lumbriculidae	0.1 (2.1)	1.3 (23.7)	9.1	7.5

Table F.183. September feeding habits of 1+ brown trout (N=3) in lower Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.7 (8.7)	<0.1 (0.3)	66.7	9.9
Glossosomatidae	0.3 (4.4)	<0.1 (0.3)	33.3	5.0
EPHEMEROPTERA				
Ephemerellidae	0.3 (4.4)	1.7 (12.8)	33.3	6.6
Baetidae	0.3 (4.4)	0.0 (0.3)	33.3	5.0
Heptageniidae	0.3 (4.4)	0.2 (1.3)	33.3	5.1
DIPTERA				
Chironomidae-larvae	0.7 (8.7)	0.1 (0.8)	33.3	5.6
Culicidae	0.3 (4.4)	0.2 (1.8)	33.3	5.2
TERRESTRIAL ORGANISMS				
Antla				
HOMOPTERA				
Sciaridae	0.3 (4.4)	<0.1 (0.3)	33.3	5.0
Lithomyiidae	0.3 (4.4)			
HOMOPTERA				
Aphididae	0.3 (4.4)	<0.1 (0.3)	33.3	5.0
Cercopidae	0.3 (4.4)	0.7 (5.7)	33.3	5.7
HYMENOPTERA				
Formicidae	0.7 (8.7)	1.4 (10.5)	33.3	6.9
ARANEIDA	0.7 (8.7)	3.6 (27.9)	33.3	9.1
OLIGOCHAETA				
Lumbriculidae	0.3 (4.4)	4.8 (37.1)	33.3	9.8
COLLEMBOLA				
Sminthuridae	0.7 (8.7)	0.1 (0.5)	33.3	5.6
UNIDENTIFIED	1.0 (13.0)	<0.1 (0.3)	33.3	6.1

Table F.184. October feeding habits of 1+ brown trout (N=4) in lower Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	2.3 (22.5)	6.9 (4.3)	50.0	12.3
Hydropsychidae	0.8 (7.5)	1.0 (0.6)	75.0	13.3
EPTHEMEROPTERA				
Baetidae	1.3 (12.5)	0.1 (0.1)	50.0	10.0
DIPTERA				
Chironomidae larvae	0.8 (7.5)	<0.1 (<0.1)	50.0	9.2
Simuliidae	0.5 (5.0)	<0.1 (<0.1)	25.0	4.8
PLECOPTERA				
Nemouridae	3.3 (32.5)	0.5 (0.3)	75.0	17.3
TERRESTRIAL ORGANISMS				
OLIGOCHAETA				
Lumbriculidae	1.0± (10.0)	150.9 (94.2)	75.0	28.7
ISOPODA	0.3 (2.5)	0.8 (0.5)	25.0	4.5

Table F.185. March feeding habits of 2+ brown trout (N=7) in lower Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.1 (1.3)	1.1 (4.0)	14.3	3.3
Rhyacophilidae	0.1 (1.3)	0.7 (2.5)	14.3	3.0
Hydropsychidae	0.3 (2.7)	0.8 (3.0)	28.6	5.7
EPTHEMEROPTERA				
Ephemerellidae	0.3 (2.7)	0.1 (0.5)	28.6	5.3
Baetidae	5.3 (49.3)	1.9 (6.9)	71.4	21.3
Heptageniidae	0.7 (6.7)	<0.1 (0.1)	57.1	10.6
DIPTERA				
Chironomidae larvae	0.7 (6.7)	<0.1 (0.1)	42.9	8.3
Simuliidae	1.9 (17.3)	0.4 (1.6)	42.9	10.3
PLECOPTERA				
Perlodidae	0.3 (2.7)	6.5 (24.2)	14.3	6.9
Nemouridae	0.3 (2.7)	<0.1 (0.1)	28.6	5.2
Pteronarcidae	0.4 (4.0)	8.4 (31.0)	28.6	10.6
OSTEICHTHYES				
Cottidae	0.1 (1.3)	6.8 (25.2)	14.3	6.8
TERRESTRIAL ORGANISMS				
LEPIDOPTERA	0.1 (1.3)	0.2 (0.8)	14.3	2.7

Table F.186. April feeding habits of 2+ brown trout (N=7) in lower Skookum Creek for 1989.

Occurrence % PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	1.3 (3.3)	1.3 (0.3)	57.1	6.7
Brachycentridae	0.6 (1.5)	0.9 (0.2)	28.6	3.3
Rhyacophilidae	1.3 (3.3)	1.5 (0.4)	57.1	6.7
Hydropsychidae	0.6 (1.5)	2.7 (0.6)	14.3	1.8
Glossosomatidae	1.4 (3.7)	0.6 (0.1)	42.9	5.1
EPHEMEROPTERA				
Ephemerellidae	2.1 (5.5)	1.3 (0.3)	71.4	8.5
Baetidae	5.6 (14.4)	3.9 (0.9)	71.4	9.5
Heptageniidae	19.6 (50.6)	12.4 (3.0)	85.7	15.2
DIPTERA				
Chironomidae larvae	0.1 (0.7)	0.1 (0.0)	14.3	1.6
Simuliidae	0.4 (1.1)	0.5 (0.1)	42.9	4.8
PLECOPTERA				
Perlodidae	1.3 (3.3)	11.8 (2.3)	57.1	6.9
Nemouridae	0.1 (0.4)	<0.1 (<0.1)	14.3	1.6
COLEOPTERA				
Elmidae larvae	0.4 (1.1)	3.8 (0.9)	28.6	3.3
TERRESTRIAL ORGANISMS				
PLECOPTERA	0.1 (0.4)	<0.1 (<0.1)	14.3	1.6
OLIGOCHAETA				
Lumbriculidae	3.6 (9.2)	384.3 (90.3)	100.0	21.8
ARANEIDA	0.1 (0.7)	0.3 (0.1)	14.3	1.6

Table F.187. June feeding habits of 2+ brown trout (N=2) in lower Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	1.5 (42.9)	4.6 (6.7)	100.0	29.9
EPHEMEROPTERA				
Baetidae	0.5 (14.3)	0.2 (0.2)	50.0	12.9
Heptageniidae	0.5 (14.3)	0.2 (0.3)	50.0	12.9
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	0.5 (14.3)	0.1 (0.1)	50.0	12.9
OLIGOCHAETA				
Lumbriculidae	0.5 (14.3)	64.0 (92.8)	50.0	131.4

Table F.188. July feeding habits of 2+ brown trout (N=6) in lower Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	2.5 (60.0)	6.8 (19.8)	100.0	38.5
Brachycentridae	0.2 (4.0)	0.5 (1.4)	16.7	4.7
Hydropsychidae	0.2 (4.0)	1.6 (4.5)	16.7	5.4
EPHEMEROPTERA				
Ephemerellidae	0.2 (4.0)	0.2 (0.5)	16.7	4.5
PLECOPTERA				
Perlodidae	0.2 (4.0)	0.6 (1.8)	16.7	4.8
OSTEICHTHYES				
Unidentified	0.2 (4.0)	13.4 (39.0)	16.7	12.8
TERRESTRIAL ORGANISMS				
HOMOPTERA				
Unidentified	0.2 (4.0)	0.4 (1.2)	16.7	4.7
HYMENOPTERA				
Formicidae	0.3 (8.0)	0.7 (2.0)	33.3	9.3
OLIGOCHAETA				
Lumbriculidae	0.3 (8.0)	10.2 (29.7)	33.3	15.2

Table F.189. September feeding habits of 2+ brown trout (N=2) in lower Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.5 (7.7)	0.1 (1.1)	50.0	9.0
Brachycentridae	2.5 (38.5)	1.2 (25.3)	100.0	25.2
EPHEMEROPTERA				
Heptageniidae	0.5 (7.7)	0.1 (1.1)	50.0	9.0
DIPTERA				
Tipulidae	0.5 (7.7)	1.5 (31.9)	50.0	13.8
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Byrrhidae	0.5 (7.7)	1.1 (25.3)	50.0	12.8
Unidentified	0.5 (7.7)	0.4 (8.8)	50.0	10.2
HYMENOPTERA				
Formicidae	0.5 (7.7)	0.1 (1.1)	50.0	9.0
UNIDENTIFIED	1.0 (15.4)	0.3 (5.5)	50.0	10.9

Table F.190. October feeding habits of 2+ brown trout (N=4) in lower Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	3.5 (12.5)	12.6 (1.2)	100.0	12.6
Rhyacophilidae	1.0 (3.6)	2.7 (0.3)	50.0	6.0
Hydropsychidae	0.8 (2.7)	1.7 (0.2)	50.0	5.9
EPTHEMEROPTERA				
Heptageniidae	0.5 (1.8)	<0.1 (<0.1)	25.0	3.0
DIPTERA				
Chironomidae larvae	0.8 (2.7)	<0.1 (<0.1)	50.0	5.9
Chironomidae pupae	1.5 (5.4)	<0.1 (<0.1)	50.0	6.2
Tipulidae	0.5 (1.8)	<0.1 (<0.1)	25.0	3.0
PLECOPTERA				
Perlodidae	2.5 (8.9)	7.6 (0.7)	75.0	9.4
Nemouridae	0.8 (2.7)	<0.1 (<0.1)	50.0	5.9
TERRESTRIAL ORGANISMS				
DIPTERA				
Simuliidae	0.3 (0.9)	0.3 (<0.1)	25.0	2.9
HOMOPTERA				
Cicadellidae	0.8 (2.7)	2.4 (0.2)	50.0	5.8
OLIGOCHAETA				
Lumbriculidae	14.3 (50.9)	1011.9 (97.4)	75.0	24.8
COLLEMBOLA				
Entomobryidae	0.3 (0.9)	<0.1 (<0.1)	25.0	2.9
Sminthuridae	0.3 (0.9)	<0.1 (<0.1)	25.0	2.9
UNIDENTIFIED TERRESTRIALS	0.5 (1.8)	<0.1 (<0.1)	25.0	2.9

Table F.191. March feeding habits of 3+ brown trout (N=3) in lower Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Rhyacophilidae	0.3 (3.9)	<0.1 (<0.1)	33.3	6.2
Hydropsychidae	0.3 (3.9)	5.6 (3.4)	33.3	6.8
EPEMEROPTERA				
Heptageniidae	2.0 (23.1)	0.1 (0.1)	66.7	15.0
DIPTERA				
Chironomidae larvae	0.3 (3.9)	<0.1 (<0.1)	33.3	6.2
Simuliidae	0.7 (7.7)	<0.1 (<0.1)	33.3	6.8
PLECOPTERA				
Perlodidae	1.3 (15.4)	19.6 (12.1)	66.7	15.7
Pteronarcyidae	3.3 (38.5)	59.8 (36.8)	100.0	29.2
OSTEICHTHYES				
Unidentified	0.3 (3.9)	77.4 (47.6)	33.3	14.1

Table F.192. April feeding habits of 3+ brown trout (N=2) in lower Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.5 (1.3)	0.5 (0.1)	50.0	5.4
Brachycentridae	1.5 (3.9)	2.6 (0.2)	50.0	5.7
Rhyacophilidae	0.5 (1.3)	0.3 (0.0)	50.0	5.4
Hydropsychidae	1.5 (3.9)	11.7 (0.9)	100.0	11.0
EPEMEROPTERA				
Ephemerellidae	1.0 (2.6)	3.0 (0.2)	50.0	5.6
Baetidae	2.5 (6.5)	0.6 (<0.1)	100.0	11.1
Heptageniidae	5.0 (13.0)	5.7 (0.4)	100.0	11.9
PLECOPTERA				
Perlodidae	0.5 (1.3)	<0.1 (<0.1)	50.0	5.4
Nemouridae	0.5 (1.3)	0.4 (<0.1)	50.0	5.4
TERRESTRIAL ORGANISMS				
LEPIDOPTERA				
	0.5 (1.3)	1.1 (<0.1)	50.0	5.4
OLIGOCHAETA				
Lumbriculidae	24.5 (63.6)	1267.9 (98.0)	100.0	27.5

Table F.193. June feeding habits of 3+ brown trout (N=4) in lower Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	5.8 (62.2)	18.8 (33.7)	75.0	31.1
Brachycentridae	0.3 (2.7)	<0.1 (<0.1)	25.0	5.0
COLEOPTERA				
Dytiscidae	0.3 (2.7)	<0.1 (<0.1)	25.0	5.0
Halplidae	0.5 (5.4)	1.5 (2.7)	25.0	6.0
OSTEICHTHYES				
Cottidae	0.3 (2.7)	6.7 (12.0)	25.0	7.2
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	1.3 (13.5)	4.3 (7.7)	75.0	17.5
Braconidae	0.3 (2.7)	0.3 (0.5)	25.0	5.1
LEPIDOPTERA	0.5 (5.4)	2.8 (5.0)	50.0	11.0
OLIGOCHAETA				
Lumbriculidae	0.3 (2.7)	21.4 (38.3)	25.0	12.0

Table F.194. July feeding habits of 3+ brown trout (N=1) in lower Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
TERRESTRIAL ORGANISMS				
PLECOPTERA	1.0 (20.0)	0.4 (0.9)	100.0	17.3
COLEOPTERA				
Carabidae	1.0 (20.0)	30.2 (65.0)	100.0	26.4
HYMENOPTERA				
Formicidae	1.0 (20.0)	3.8 (8.2)	100.0	18.3
HEMIPTERA				
Miridae	1.0 (20.0)	0.1 (0.2)	100.0	17.2
UNIDENTIFIED	1.0 (20.0)	12.0 (25.8)	100.0	20.8

Table F.195. October feeding habits of 3+ brown trout (N=1) in lower Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
TERRESTRIAL ORGANISMS				
OLIGOCHAETA				
Lumbriculidae	3.0 (100.0)	223.5 (100.0)	100.0	100.0

Table F.196. March feeding habits of 4+ brown trout (N=1) in lower Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	3.0 (23.1)	16.5 (2.7)	100.0	15.7
Hydropsychidae	2.0 (15.4)	1.5 (0.3)	100.0	14.5
EPEMEROPTERA				
Heptageniidae	1.0 (7.7)	0.1 (0.0)	100.0	13.5
DIPTERA				
Chironomidae larvae	2.0 (15.4)	0.1 (0.0)	100.0	14.4
Tipulidae	3.0 (23.1)	165.5 (27.4)	100.0	18.8
TERRESTRIAL ORGANISMS				
OLIGOCHAETA				
Lumbriculidae	2.0 (15.4)	420.4 (69.6)	100.0	23.1

Table F.197. June feeding habits of 4+ brown trout (N=1) in lower Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	5.0 (55.6)	124.3 (42.5)	100.0	33.0
OSTEICHTHYES				
Salmonidae	1.0 (11.1)	137.3 (47.0)	100.0	26.3
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	1.0 (11.1)	2.4 (0.8)	100.0	18.7
LEPIDOPTERA	2.0 (22.2)	28.5 (9.7)	100.0	22.0

Table F.198. October feeding habits of 0+ cutthroat trout (N=2) in lower Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.5 (33.3)	0.1 (42.9)	50.0	42.1
PLECOPTERA				
Unidentified	1.0 (66.7)	0.2 (57.1)	50.0	57.9

Table F.199. April feeding habits of 1+ cutthroat trout (N=1) in upper Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Rhyacophilidae	2.0 (13.3)	0.6 (60.0)	100.0	24.8
Glossosomatidae	1.0 (6.7)	0.1 (10.0)	100.0	16.7
EPHEMEROPTERA				
Baetidae	3.0 (20.0)	0.1 (10.0)	100.0	18.6
Heptageniidae	3.0 (20.0)	0.1 (10.0)	100.0	18.6
DIPTERA				
Chironomidae larvae	6.0 (40.0)	0.1 (10.0)	100.0	21.4

Table F.200. July feeding habits of 1+ cutthroat trout (N=1) in lower Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	1.0 (7.7)	1.6 (6.3)	100.0	22.8
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Unidentified	1.0 (7.7)	0.1 (0.4)	100.0	21.6
HYMENOPTERA				
Formicidae	11.0 (84.6)	23.7 (93.3)	100.0	55.6

Table F.201. October feeding habits of 1+ cutthroat trout (N=1) in lower Skookum Creek for 1989.

PREY ITEMS	Number Mean (%)	Weight (mg) Mean (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	1.0 (9.1)	0.1 (1.8)	100.0	27.7
Brachycentridae	10.0 (90.9)	5.6 (98.3)	100.0	72.3

APPENDIX G

FEEDING HABITS OF FISH FOUND IN TRIBUTARIES TO THE PEND OREILLE RIVER DURING 1990

FEEDING HABITS OF FISH IN LECLERC CREEK, 1990

Table G.1. Seasonal (July) feeding habits of 0+ brown trout (n=1) in LeClerc Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Hydrotillidae	4.0 (80.0)	0.1 (50.0)	100.0	57.5
COLEOPTERA				
Elmidae larvae	1.0 (20.0)	0.1 (50.0)	100.0	42.5

Table G.2. Seasonal (September) feeding habits of 0+ brown trout (n=1) in LeClerc Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
EPHEMEROPTERA				
Baetidae	1.0 (33.3)	15.2 (85.9)	100.0	43.8
DIPTERA				
Chironomidae larvae	1.0 (33.3)	1.1 (6.2)	100.0	27.9
Simuliidae	1.0 (33.3)	1.4 (7.9)	100.0	28.2

Table G.3. Annual feeding habits of 0+ brown trout (n=2) in LeClerc Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Hydrotillidae	1.5 (52.0)	<0.1 (1.6)	33.3	23.7
EPHEMEROPTERA				
Baetidae	0.3 (12.0)	5.1 (82.3)	33.3	34.8
COLEOPTERA				
Elmidae larvae	0.3 (12.0)	<0.1 (1.6)	33.3	12.8
DIPTERA				
Chironomidae larvae	0.3 (12.0)	0.4 (6.5)	33.3	14.1
Simuliidae	0.3 (12.0)	0.5 (8.1)	33.3	14.6

Table G.4. Seasonal (July) feeding habits of 1+ brown trout (n=4) in LeClerc Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Glossosomatidae	0.3 (11.1)	0.1 (0.8)	25.0	8.7
Brachycentridae	0.3 (11.1)	0.1 (0.8)	25.0	8.7
EPTHEMEROPTERA				
Baetidae	0.3 (11.1)	0.1 (0.8)	25.0	8.7
PLECOPTERA				
Perlodidae	0.3 (11.1)	3.6 (26.9)	25.0	14.8
DIPTERA				
Chironomidae larvae	0.3 (11.1)	1.8 (13.1)	25.0	11.6
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Dytiscidae adult	0.3 (11.1)	1.8 (13.4)	25.0	11.6
Staphylinidae adult	0.3 (11.1)	2.3 (17.1)	25.0	12.5
HOMOPTERA				
Cicadidae	0.3 (11.1)	1.4 (10.4)	25.0	10.9
ARTHROPODA				
Chilopoda	0.3 (11.1)	2.3 (16.8)	25.0	12.5

Table G.5. Seasonal (September) feeding habits of 1+ brown trout (n=1) in LeClerc Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Glossosomatidae	1.0 (16.7)	0.7 (36.9)	100.0	21.9
COLEOPTERA				
Dytiscidae	1.0 (16.7)	0.9 (47.4)	100.0	23.4
DIPTERA				
Chironomidae larvae	2.0 (33.3)	0.1 (5.3)	100.0	19.8
TERRESTRIAL ORGANISMS				
COLLEMBOLA	1.0 (16.7)	0.1 (5.3)	100.0	17.4
ARACHNIDA	1.0 (16.7)	0.1 (5.3)	100.0	17.4

Table G.6. Annual feeding habits of 1+ brown trout (n=5) in LeClerc Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Glossosomatidae	0.4 (14.3)	0.3 (5.5)	41.7	13.9
Brachycentridae	0.1 (3.6)	<0.1 (1.8)	8.3	3.1
EPHEMEROPTERA				
Baetidae	0.1 (3.6)	<0.1 (1.8)	8.3	3.1
PLECOPTERA				
Perlodidae	0.1 (3.6)	1.2 (21.8)	8.3	7.6
COLEOPTERA				
Dytiscidae larvae	0.3 (10.7)	0.3 (5.5)	33.3	11.2
DIPTERA				
Chironomidae larvae	0.8 (28.6)	0.6 (10.9)	41.7	18.4
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Dytiscidae adult	0.1 (3.6)	0.6 (10.9)	8.3	5.2
Staphylinidae	0.1 (3.6)	0.8 (14.5)	8.3	6.0
HOMOPTERA				
Cicadidae	0.1 (3.6)	0.5 (9.1)	8.3	4.8
COLLEMBOLA	0.3 (10.7)	<0.1 (1.8)	33.3	10.4
ARACHNIDA	0.3 (10.7)	<0.1 (1.8)	33.3	10.4
ARTHROPODA				
Chilopoda	0.1 (3.6)	0.8 (14.5)	8.3	6.0

Table G.7. Seasonal (July) feeding habits of 2+ brown trout (n=2) in LeClerc Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Leptoceridae	0.5 (4.8)	3.8 (10.9)	50.0	11.0
Glossosomatidae	3.0 (28.6)	7.1 (20.3)	100.0	24.8
Brachycentridae	5.0 (47.6)	15.1 (43.3)	100.0	31.8
EPHEMEROPTERA				
Baetidae	1.0 (9.5)	1.2 (3.4)	50.0	10.5
LEPIDOPTERA	0.5 (4.8)	5.8 (16.6)	50.0	11.9
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	0.5 (4.8)	1.9 (5.4)	50.0	10.0

Table G.8. Seasonal (September) feeding habits of 2+ brown trout (n=1) in LeClerc Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Brachycentridae	6.0 (85.7)	3.6 (65.5)	100.0	62.8
EPHEMEROPTERA				
Baetidae	1.0 (14.3)	1.9 (34.6)	100.0	37.2

Table G.9. Annual feeding habits of 2+ brown trout (n=3) in LeClerc Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Leptoceridae	0.2 (6.1)	1.3 (21.7)	16.7	13.3
Brachycentridae	2.0 (60.6)	1.2 (20.0)	33.3	34.1
EPHEMEROPTERA				
Baetidae	0.7 (21.2)	1.0 (16.7)	50	26.3
LEPIDOPTERA	0.2 (6.1)	1.9 (31.7)	16.7	16.3
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	0.2 (6.1)	0.6 (10.0)	16.7	9.8

Table G.I0. Seasonal (September) feeding habits of 3+ brown trout (n=1) in LeClerc Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Rhyacophilidae	1.0 (50.0)	2.2 (55.0)	100.0	51.3
Brachycentridae	1.0 (50.0)	1.8 (45.0)	100.0	48.7

Table G.II. Annual feeding habits of 3+ brown trout (n=1) in LeClerc Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Rhyacophilidae	0.3 (50.0)	0.7 (53.8)	33.3	51.4
Brachycentridae	0.3 (50.0)	0.6 (46.2)	33.3	48.6

Table G.12. Seasonal (July) feeding habits of 4+ brown trout (n=1) in LeClerc Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	1.0 (25.0)	11.3 (99.1)	100.0	56.0
NEMATODA	3.0 (75.0)	0.1 (0.9)	100.0	44.0

Table G.13. Seasonal (September) feeding habits of 4+ brown trout (n=3) in LeClerc Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Brachycentridae	3.3 (58.8)	6.5 (6.9)	100.0	33.1
COLEOPTERA	0.3 (5.9)	10.8 (11.4)	33.3	10.1
DIPTERA				
Chironomidae larvae	0.7 (11.8)	2.0 (2.1)	33.3	9.4
Chironomidae pupae	0.3 (5.9)	1.2 (1.3)	33.3	8.1
Tipulidae	0.3 (5.9)	1.3 (1.4)	33.3	8.1
Simuliidae	0.3 (5.9)	0.8 (0.9)	33.3	8.0
OSTEICHTHYES	0.3 (5.9)	71.7 (76.0)	33.3	23.0

Table G.14. Annual feeding habits of 4+ brown trout (n=4) in LeClerc Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.3 (9.7)	3.8 (10.7)	33.3	14.7
Brachycentridae	1.1 (35.5)	2.2 (6.2)	33.3	20.5
COLEOPTERA	0.1 (3.2)	3.6 (10.2)	11.1	6.7
DIPTERA				
Chironomidae larvae	0.2 (6.5)	0.7 (2.0)	11.1	5.3
Chironomidae pupae	0.1 (3.2)	0.4 (1.1)	11.1	4.2
Tipulidae	0.1 (3.2)	0.4 (1.1)	11.1	4.2
Simuliidae	0.1 (3.2)	0.3 (0.8)	11.1	4.1
NEMATODA	1.0 (32.3)	<0.1 (0.3)	33.3	18.0
OSTEICHTHYES	0.1 (3.2)	23.9 (67.5)	11.1	22.3

Table G.15. Seasonal (July) feeding habits of 1+ brook trout (n=4) in LeClerc Creek for 1990.

PREY ITEMS	Number MEAN.(%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
PLECOPTERA				
Chloroperlidae	0.3 (4.4)	2.0 (6.9)	25.0	7.1
COLEOPTERA				
Elmidae larvae	2.3 (39.1)	4.9 (16.8)	75.0	25.7
Dytiscidae	1.0 (17.4)	6.0 (20.7)	50.0	17.3
DIPTERA				
Chironomidae larvae	0.5 (8.7)	0.3 (1.0)	25.0	6.8
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Elmidae adult	0.3 (4.4)	3.0 (10.4)	25.0	7.8
Halplidae	0.5 (8.7)	4.9 (16.9)	25.0	9.9
DIPTERA				
Simuliidae	0.3 (4.4)	3.0 (10.4)	25.0	14.6
HYMENOPTERA				
Formicidae	0.8 (13.0)	4.9 (16.9)	25.0	10.8

Table G.16. Seasonal (September) feeding habits of 1+ brook trout (n=11) in LeClerc Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Psychomyidae	<0.1 (1.4)	2.0 (2.3)	9.1	2.4
Brachycentridae	0.6 (8.3)	1.3 (1.5)	36.4	8.6
EPHEMEROPTERA				
Baetidae	0.9 (13.9)	9.2 (10.4)	45.4	13.0
PLECOPTERA				
Perlodidae	<0.1 (1.4)	0.1 (0.1)	9.1	2.0
COLEOPTERA				
Elmidae larvae	<0.1 (1.4)	1.6 (1.8)	9.1	2.3
Dytiscidae larvae	<0.1 (1.4)	2.7 (3.0)	9.1	2.5
LEPIDOPTERA	0.2 (2.8)	25.5 (28.7)	18.2	9.3
DIPTERA				
Chironomidae larvae	1.5 (22.2)	1.4 (1.6)	63.6	16.3
Chironomidae pupae	2.2 (33.3)	2.8 (3.1)	45.4	15.2
Tipulidae	<0.1 (1.4)	9.9 (11.2)	9.1	4.0
Simuliidae pupae	<0.1 (1.4)	3.5 (3.9)	9.1	2.7
OLIGOCHETA				
Lumbriculidae	<0.1 (1.4)	13.4 (15.1)	9.1	4.8
TERRESTRIAL ORGANISMS				
TRICHOPTERA	<0.1 (1.4)	8.1 (9.1)	9.1	3.7
COLEOPTERA				
Dytiscidae adult	0.2 (2.8)	0.1 (0.1)	18.2	3.9
DIPTERA				
Asilidae	<0.1 (1.4)	1.9 (2.1)	9.1	2.3
Simuliidae	<0.1 (1.4)	0.8 (0.9)	9.1	2.1
HYMENOPTERA				
Formicidae	<0.1 (1.4)	2.9 (3.2)	9.1	2.6
ARACHNIDA	<0.1 (1.4)	2.0 (2.2)	9.1	2.3

Table G.17. Annual feeding habits of 1+ brook trout (n=15) in LeClerc Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Psychomyiidae	<0.1 (2.0)	0.7 (1.8)	3.0	1.7
Brachycentridae	0.2 (4.1)	0.4 (1.0)	12.1	4.3
EPHEMEROPTERA				
Baetidae	0.3 (6.1)	3.1 (7.8)	15.1	7.2
PLECOPTERA				
Chloroperlidae	0.1 (2.0)	0.7 (1.8)	8.3	3.0
Perlodidae	<0.1 (2.0)	<0.1 (0.3)	3.0	1.3
COLEOPTERA				
Elmidae larvae	0.8 (16.3)	2.2 (5.5)	28.0	12.4
Dytiscidae	0.4 (8.2)	2.9 (7.3)	19.7	8.7
LEPIDOPTERA	<0.1 (2.0)	8.5 (21.4)	6.1	7.3
DIPTERA				
Chironomidae larvae	0.7 (14.3)	0.6 (1.5)	29.5	11.2
Chironomidae pupae	0.7 (14.3)	0.9 (2.3)	15.1	7.9
Tipulidae	<0.1 (2.0)	3.3 (8.3)	3.0	3.3
Simuliidae pupae	<0.1 (2.0)	1.2 (3.0)	3.0	2.0
OLIGOCHAETA				
Lumbriculidae	<0.1 (2.0)	4.5 (11.3)	3.0	4.0
TERRESTRIAL ORGANISMS				
TRICHOPTERA	<0.1 (2.0)	2.7 (6.8)	3.0	2.9
COLEOPTERA				
Elmidae adult	0.1 (2.0)	1.0 (2.5)	8.3	3.2
Haliplidae	0.2 (4.1)	1.6 (4.0)	8.3	4.1
Dytiscidae	<0.1 (2.0)	<0.1 (0.3)	6.1	2.1
DIPTERA				
Asilidae	<0.1 (2.0)	0.6 (1.5)	3.0	1.6
Simuliidae	0.1 (2.0)	1.3 (3.3)	11.4	4.1
HYMENOPTERA				
Formicidae	0.3 (6.1)	2.6 (6.5)	11.4	6.0
ARACHNIDA	<0.1 (2.0)	0.7 (1.8)	3.0	1.7

Table G.18. Seasonal (July) feeding habits of 2+ brook trout (n=5) in LeClerc Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN- (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Lepidostomatidae	1.2 (14.6)	50.2 (30.1)	60.0	18.1
COLEOPTERA				
Elmidae larvae	1.0 (12.2)	1.5 (0.9)	20.0	5.7
Dytiscidae	0.2 (2.4)	1.5 (0.9)	20.0	4.0
LEPIDOPTERA	2.6 (31.7)	46.5 (27.9)	60.0	20.6
DIPTERA				
Tipulidae	0.4 (4.9)	7.4 (4.4)	20.0	5.1
Sciomyzidae	0.2 (2.4)	2.1 (1.3)	20.0	4.1
Simuliidae	0.2 (2.4)	0.6 (0.4)	20.0	3.9
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Amphizoidae	0.2 (2.4)	7.2 (4.3)	20.0	4.6
HYMENOPTERA				
Formicidae	1.8 (21.9)	6.2 (3.7)	100.0	21.7
HOMOPTERA				
Cicadidae	0.2 (2.4)	43.5 (26.1)	20.0	8.4
Aphididae	0.2 (2.4)	0.3 (0.2)	20.0	3.9

Table G.19. Seasonal (September) feeding habits of 2+ brook trout (n=1) in LeClerc Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
EPHEMEROPTERA				
Ephemerellidae	2.0 (50.0)	17.2 (91.0)	100.0	48.2
DIPTERA				
Chironomidae pupae	1.0 (25.0)	0.1 (0.5)	100.0	25.1
TERRESTRIAL ORGANISMS				
TRICHOPTERA	1.0 (25.0)	1.6 (8.5)	100.0	26.7

**Table G.20. Annual feeding habits of 2+ brook trout (n=6)
in LeClerc Creek for 1990.**

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Lepidostomatidae	0.4 (9.5)	16.7 (26.9)	20.0	13.2
EPHEMEROPTERA				
Ephemerellidae	0.7 (16.7)	5.7 (9.2)	33.3	13.9
COLEOPTERA				
Elmidae larvae	0.3 (7.1)	0.5 (0.8)	6.7	3.4
Dytiscidae	<0.1 (2.4)	0.5 (0.8)	6.7	2.3
Amphizoidae	<0.1 (2.4)	2.4 (3.9)	6.7	3.0
LEPIDOPTERA	0.9 (21.4)	15.5 (25.0)	20.0	15.5
DIPTERA				
Chironomidae pupae	0.3 (7.1)	<0.1 (0.2)	33.3	9.5
Tipulidae	0.1 (2.4)	2.5 (4.0)	6.7	3.1
Sciomyzidae	<0.1 (2.4)	0.7 (1.1)	6.7	2.4
Simuliidae	<0.1 (2.4)	0.2 (0.3)	6.7	2.2
TERRESTRIAL ORGANISMS				
TRICHOPTERA	0.3 (7.1)	0.5 (0.8)	33.3	9.6
HOMOPTERA				
Cicadidae	<0.1 (2.4)	14.5 (23.4)	6.7	7.6
Aphididae	<0.1 (2.4)	0.1 (0.8)	6.7	2.3
HYMENOPTERA				
Formicidae	0.6 (14.3)	2.1 (3.4)	33.3	11.9

Table G.21. Seasonal (July) feeding habits of 3+ brook trout (n=1) in LeClerc Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Glossosomatidae	1.0 (16.7)	1.8 (3.7)	100.0	24.1
Brachycentridae	4.0 (66.7)	7.1 (14.4)	100.0	36.2
COLEOPTERA				
Elmidae larvae	1.0 (16.7)	40.3 (81.9)	100.0	39.7

Table G.22. Annual feeding habits of 3+ brook trout (n=1) in LeClerc Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Glossosomatidae	0.3 (15.8)	0.6 (3.7)	33.3	17.6
Brachycentridae	1.3 (68.4)	2.4 (14.6)	33.3	38.8
COLEOPTERA				
Elmidae larvae	0.3 (15.8)	13.4 (81.7)	33.3	43.6

Table G.23. Seasonal (July) feeding habits of 1+ cutthroat trout (n=1) in LeClerc Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Brachycentridae	1.0 (14.3)	2.1 (20.6)	100.0	22.5
EPTHEMEROPTERA				
Baetidae	1.0 (14.3)	1.4 (13.7)	100.0	21.3
DIPTERA				
Chironomidae larvae	4.0 (57.1)	3.7 (36.3)	100.0	32.2
Simuliidae	1.0 (14.3)	3.0 (29.4)	100.0	24.0

Table G.24. Annual feeding habits of 1+ cutthroat trout (n=1) in LeClerc Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Brachycentridae	0.3 (13.6)	0.7 (20.6)	33.3	20.3
EPTHEMEROPTERA				
Baetidae	0.3 (13.6)	0.5 (14.7)	33.3	18.5
DIPTERA				
Chironomidae larvae	1.3 (59.1)	1.2 (35.3)	33.3	38.3
Simuliidae	0.3 (13.6)	1.0 (29.4)	33.3	22.9

Table G.25. Seasonal (July) feeding habits of 2+ cutthroat trout (n=2) in LeClerc Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Rhyacophilidae	0.5 (9.1)	6.4 (22.5)	50.0	23.3
Brachycentridae	5.0 (90.9)	22.0 (77.5)	100.0	76.7

Table G.26. Seasonal (September) feeding habits of 2+ cutthroat trout (n=1) in LeClerc Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Psychomyiidae	6.0 (54.6)	12.1 (59.3)	100.0	30.6
Ephemeroptera				
Baetidae	2.0 (18.2)	1.0 (5.4)	100.0	17.7
Lepidoptera	1.0 (9.1)	6.2 (30.4)	100.0	19.9
Diptera				
Simuliidae	1.0 (9.1)	0.1 (0.5)	100.0	15.7
TERRESTRIAL ORGANISMS				
UNKNOWN	1.0 (9.1)	0.9 (4.4)	100.0	16.2

Table G.27. Annual feeding habits of 2+ cutthroat trout (n=3) in LeClerc Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Rhyacophilidae	0.2 (3.6)	2.1 (13.0)	16.7	8.0
Psychomyiidae	2.0 (36.4)	4.0 (24.7)	33.3	22.6
Brachycentridae	1.7 (30.9)	7.3 (45.1)	33.3	26.2
Ephemeroptera				
Baetidae	0.7 (12.7)	0.3 (1.9)	33.3	11.5
Lepidoptera	0.3 (5.5)	2.1 (13.0)	33.3	12.4
Diptera				
Simuliidae	0.3 (5.5)	<0.1 (0.6)	33.3	9.5
TERRESTRIAL ORGANISMS				
UNKNOWN	0.3 (5.5)	0.3 (1.9)	33.3	9.8

Table G.28. Seasonal (September) feeding habits of 3+ cutthroat trout (n=2) in LeClerc Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Psychomyiidae	1.0 (3.9)	3.5 (0.8)	50.0	3.8
Brachycentridae	2.5 (9.8)	5.2 (1.2)	50.0	4.3
Trichoptera pupae	0.5 (2.0)	1.2 (0.3)	50.0	3.7
Ephemeroptera				
Baetidae	2.5 (9.8)	6.1 (1.4)	100.0	7.8
Ephemerellidae	0.5 (2.0)	6.8 (1.6)	50.0	3.7
Heptageniidae	0.5 (2.0)	1.7 (0.4)	50.0	3.7
PLECOPTERA				
Perlodidae	0.5 (2.0)	1.3 (0.3)	50.0	3.7
COLEOPTERA				
Elmidae larvae	0.5 (2.0)	1.3 (0.3)	50.0	3.7
LEPIDOPTERA	3.0 (11.8)	238.4 (55.5)	100.0	11.7
Libellulidae	0.5 (0.6)	108.2 (25.2)	25.0	3.6
DIPTERA				
Chironomidae larvae	2.0 (7.8)	1.1 (0.3)	100.0	7.6
Chironomidae pupae	1.5 (5.9)	0.9 (0.2)	50.0	3.9
Tipulidae	3.0 (11.8)	9.2 (2.1)	50.0	4.5
Simuliidae larvae	0.5 (2.0)	1.8 (0.2)	50.0	3.6
Simuliidae pupae	0.5 (2.0)	1.8 (0.4)	50.0	3.7
OLIGOCHAETA				
Lumbriculidae	0.5 (2.0)	10.3 (2.4)	50.0	3.8
GASTROPODA				
Planorbidae	0.5 (2.0)	3.5 (0.8)	50.0	3.7
TERRESTRIAL ORGANISMS				
TRICHOPTERA	3.0 (11.8)	9.2 (2.1)	50.0	4.5
DIPTERA				
Chironomidae	0.5 (2.0)	3.0 (0.7)	50.0	3.7
HYMENOPTERA				
Formicidae	1.0 (3.9)	8.8 (2.0)	50.0	3.9
COLLEMBOLLA	0.5 (2.0)	2.0 (0.5)	50.0	3.7
ARACHNIDA	0.5 (2.0)	4.9 (1.1)	50.0	3.7

Table G.29. Annual feeding habits of 3+ cutthroat trout (n=2) in LeClerc Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Psychomyiidae	0.3 (3.3)	1.2 (0.8)	16.7	3.4
Brachycentridae	0.8 (8.9)	1.7 (1.2)	16.7	4.4
Trichoptera pupae	0.2 (2.2)	0.4 (0.3)	16.7	3.2
Ephemeroptera				
Baetidae	0.8 (8.9)	2.0 (1.4)	33.3	7.2
Ephemerellidae	0.2 (2.2)	2.3 (1.6)	16.7	3.4
Heptageniidae	0.2 (2.2)	0.6 (0.4)	16.7	3.2
PLECOPTERA				
Perlodidae	0.2 (2.2)	0.4 (0.3)	16.7	3.2
ODONATA				
Libellulidae	0.2 (2.2)	36.1 (25.2)	8.3	5.9
COLEOPTERA				
Elmidae Larvae	0.2 (2.2)	0.4 (0.3)	16.7	3.2
LEPIDOPTERA	1.0 (11.1)	79.5 (55.5)	33.3	16.4
DIPTERA				
Chironomidae larvae	0.7 (7.8)	0.4 (0.3)	33.3	6.8
Chironimidae pupae	0.5 (5.6)	0.3 (0.2)	16.7	3.7
Tipulidae	1.0 (11.1)	3.1 (2.2)	16.7	4.9
Simuliidae larvae	0.2 (2.2)	0.6 (0.4)	16.7	3.2
Simuliidae pupae	0.2 (2.2)	0.2 (0.1)	16.7	3.1
OLIGOCHAETA				
Lumbriculidae	0.2 (2.2)	3.4 (2.4)	16.7	3.5
GASTROPODA				
Planorbidae	0.2 (2.2)	1.2 (0.8)	16.7	3.2
TERRESTRIAL ORGANISMS				
TRICHOPTERA	1.0 (11.1)	3.1 (2.2)	16.7	4.9
DIPTERA				
Chironimidae	0.2 (2.2)	1.0 (0.7)	16.7	3.2
HYMENOPTERA				
Formicidae	0.3 (3.3)	2.9 (2.0)	16.7	3.6
COLLEMBOLA	0.2 (2.2)	0.7 (0.5)	16.7	3.2
ARACHNIDA	0.2 (2.2)	1.6 (1.1)	16.7	3.3

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Table G.30. Seasonal (July) feeding habits of 0+ brook trout (n=1) in Ruby Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
DIPTERA				
Chironomidae larvae	1.0 (100.0)	0.7 (100.0)	100.0	100.0

Table G.31. Seasonal (September) feeding habits of 0+ brook trout (n=1) in Ruby Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Hydroptilidae	1.0 (9.1)	0.1 (12.5)	100.0	13.5
EPEMEROPTERA				
Ephemerellidae	1.0 (9.1)	0.1 (12.5)	100.0	13.5
Leptophlebiidae	1.0 (9.1)	0.1 (12.5)	100.0	13.5
DIPTERA				
Tipulidae	2.0 (18.2)	0.2 (25.0)	100.0	15.9
Simuliidae	2.0 (18.2)	0.1 (12.5)	100.0	14.5
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Canthridae	1.0 (9.1)	0.1 (12.5)	100.0	13.5
DIPTERA				
Asilidae	3.0 (27.3)	0.1 (12.5)	100.0	15.5

Table G.32. Annual feeding habits of 0+ brook trout (n=2) in Ruby Creek for 1990.

PREY ITEMS	Number MEAN.(%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Hydroptilidae	0.3 (7.7)	<0.1 (6.7)	33.3	10.2
EPHEMEROPTERA				
EphemereUidae	0.3 (7.7)	<0.1 (6.7)	33.3	10.2
Leptophlebidæ	0.3 (7.7)	<0.1 (6.7)	33.3	10.2
DIPTERA				
Chironomidae larvae	0.3 (7.7)	0.2 (44.4)	33.3	18.3
Tipulidae	0.7 (17.9)	<0.1 (15.6)	33.3	14.3
Simuliidae	0.7 (17.9)	<0.1 (6.7)	33.3	12.4
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Canthridæ	0.3 (7.7)	<0.1 (6.7)	33.3	10.2
DIPTERA				
Asilidae	1.0 (25.6)	<0.1 (6.7)	33.3	14.0

Table G.33. Seasonal (April) feeding habits of 1+ brook trout (n=2) in Ruby Creek during 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
DIPTERA				
Ceratopogonidae	1.0 (100.0)	1.1 (100.0)	100.0	100.0

Table G.34. Seasonal (July) feeding habits of 1+ brook trout (n=6) in Ruby Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Hydroptilidae	0.2 (2.6)	3.4 (11.0)	16.7	6.3
Glossosomatidae	0.2 (2.6)	2.4 (7.8)	16.7	5.6
EPHEMEROPTERA				
Baetidae	0.2 (2.6)	1.5 (4.7)	16.7	5.0
Heptageniidae	0.3 (5.3)	2.9 (9.4)	16.7	6.6
COLEOPTERA				
Elmidae larvae	0.5 (7.9)	1.6 (5.2)	16.7	6.2
DIPTERA				
Chironomidae larvae	3.5 (55.3)	3.0 (9.7)	83.3	30.7
Chironomidae pupae	0.5 (7.9)	3.6 (11.6)	33.3	10.9
Tipulidae	0.2 (2.6)	3.0 (9.7)	16.7	6.0
Ceratopogonidae	0.3 (5.3)	1.6 (5.2)	16.7	5.6
Simuliidae	0.2 (2.6)	3.5 (11.3)	16.7	6.3
NEMATODA	0.2 (2.6)	1.0 (3.2)	16.7	4.7
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Pteromalidae	0.2 (2.6)	3.5 (11.3)	16.7	6.3

Table G.35. Seasonal (September) feeding habits of 1+ brook trout (n=3) in Ruby Creek for 1990.

PREY ITEMS	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Psychomyiidae	0.3 (10.7)	2.0 (10.0)	33.3	10.8
Brachycentridae	0.3 (10.7)	0.4 (2.0)	33.3	9.2
EPHEMEROPTERA				
Heptageniidae	0.3 (10.7)	0.4 (2.0)	33.3	9.2
Baetidae	0.3 (10.7)	1.0 (5.0)	33.3	9.8
PLECOPTERA				
Nemouridae	0.3 (10.7)	0.4 (2.0)	33.3	9.2
DIPTERA				
Chironomidae larvae	0.3 (10.7)	1.2 (6.0)	33.3	10.0
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Ichneumonidae	0.3 (10.7)	1.7 (8.5)	33.3	10.5
Formicidae	0.7 (10.7)	13.0 (64.7)	66.7	31.3

Table G.36. Annual feeding habits of 1+ brook trout (n=11) in Ruby Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Hydroptilidae	<0.1 (2.0)	1.1 (6.4)	5.6	3.3
Psychomyiidae	0.1 (2.9)	0.7 (4.0)	11.1	4.2
Glossosomatidae	<0.1 (2.0)	0.8 (4.6)	5.6	2.8
Brachycentridae	0.1 (2.9)	0.1 (0.6)	11.1	3.4
Ephemeroptera				
Baetidae	0.2 (4.9)	0.8 (4.6)	16.7	6.1
Heptageniidae	0.2 (5.7)	1.1 (6.4)	16.7	6.7
Plecoptera				
Nemouridae	0.1 (2.9)	0.1 (0.6)	11.1	3.4
Coleoptera				
Elmidae larvae	0.2 (5.7)	0.5 (2.9)	5.6	3.3
Diptera				
Chironomidae larvae	1.3 (37.2)	1.4 (8.1)	39.0	19.7
Chironomidae pupae	0.2 (5.7)	1.2 (6.9)	11.1	5.5
Tipulidae	<0.1 (2.0)	1.0 (5.8)	5.6	3.1
Ceratopogonidae	0.4 (11.5)	0.9 (5.2)	38.9	13.0
Simuliidae	<0.1 (2.0)	1.2 (6.9)	5.6	3.4
Nematoda	<0.1 (2.0)	0.3 (1.7)	5.6	2.1
TERRESTRIAL ORGANISMS				
Hymenoptera				
Pteromalidae	<0.1 (2.0)	1.2 (6.9)	5.6	3.4
Ichneumonidae	0.1 (2.9)	0.6 (3.5)	11.1	4.1
Formicidae	0.2 (5.7)	4.3 (25.0)	22.2	12.4

Table G.37. Seasonal (April) feeding habits of 2+ brook trout (n=3) in Ruby Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Glossosomatidae	0.7 (1.2)	0.8 (2.9)	33.3	4.7
Phryganeidae	1.0 (1.8)	8.4 (29.0)	33.3	8.0
EPTHEMEROPTERA				
Baetidae	0.3 (0.6)	0.1 (0.3)	33.3	4.3
Ephemerellidae	2.7 (4.8)	3.0 (10.3)	66.7	10.2
PLECOPTERA				
Chloroperlidae	0.7 (1.2)	2.8 (9.7)	33.3	5.5
Perlodidae	3.3 (6.0)	1.8 (6.2)	33.3	5.7
HYDRACARINA	2.0 (3.6)	0.4 (1.4)	66.7	9.0
DIPTERA				
Chironomidae larvae	39.0 (70.1)	7.1 (24.5)	100.0	24.3
Chironomidae pupae	2.7 (4.8)	0.1 (0.3)	66.7	9.0
Ceratopogonidae	1.3 (2.4)	0.1 (0.3)	66.7	8.7
Simuliidae	0.7 (1.2)	1.5 (5.2)	33.3	5.0
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	1.3 (2.4)	2.9 (9.9)	33.3	5.7

Table G.38. Seasonal (July) feeding habits of 2+ brook trout (n=5) in Ruby Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.2 (3.8)	5.5 (0.2)	11.1	3.0
Glossosomatidae	0.2 (3.8)	3.7 (0.1)	22.2	5.2
Brachycentridae	0.2 (3.8)	12.8 (0.4)	22.2	5.3
EPHEMEROPTERA				
Baetidae	0.9 (15.1)	3.6 (0.1)	33.3	9.7
Ephemerellidae	0.1 (1.9)	4.6 (0.1)	11.1	2.6
COLEOPTERA				
Elmidae larvae	0.1 (1.9)	0.3 (<0.1)	11.1	2.6
Hydrophilidae	0.1 (1.9)	6.2 (0.2)	11.1	2.6
LEPIDOPTERA	0.2 (3.8)	6.9 (0.2)	22.2	5.2
DIPTERA				
Chironomidae larvae	0.1 (1.9)	1.3 (<0.1)	11.1	2.6
Empididae	0.1 (1.9)	0.7 (<0.1)	11.1	2.6
Simuliidae	0.3 (5.7)	1.9 (<0.1)	11.1	3.4
OLIGOCHAETA				
Lumbriculidae	2.2 (37.7)	2345.9 (73.0)	55.6	33.2
NEMATODA	0.1 (1.9)	4.2 (0.1)	11.1	2.6
OSTEICHTHYES	0.1 (1.9)	799.5 (24.9)	11.1	7.6
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Aphizoidae adult	0.1 (1.9)	7.2 (0.2)	11.1	2.6
Buprestidae	0.1 (1.9)	4.0 (0.1)	11.1	2.6
HYMENOPTERA				
Formicidae	0.4 (7.6)	2.8 (<0.1)	11.1	3.8
ARTHROPODA				
Diplopoda	0.1 (1.9)	1.1 (<0.1)	11.1	2.6

Table G.39. Seasonal (September) feeding habits of 2+ brook trout (n=1) in Ruby Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Hydropsychidae	1.0 (7.1)	1.6 (2.9)	100.0	11.0
Ephemeroptera				
Heptageniidae	1.0 (7.1)	0.1 (0.2)	100.0	10.7
Baetidae	1.0 (7.1)	0.1 (0.2)	100.0	10.7
Plecoptera				
Chloroperlidae	1.0 (7.1)	0.1 (0.2)	100.0	10.7
Coleoptera				
Hydrophilidae	1.0 (7.1)	1.7 (3.1)	100.0	11.0
Diptera				
Chironomidae larvae	1.0 (7.1)	0.1 (0.2)	100.0	10.7
Tipulidae	1.0 (7.1)	0.1 (0.2)	100.0	10.7
TERRESTRIAL ORGANISMS				
Hymenoptera				
Formicidae	7.0 (50.0)	51.6 (93.1)	100.0	24.3

Table G.40. Annual feeding habits of 2+ brook trout (n=9) in Ruby Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	<0.1 (0.3)	1.8 (0.2)	3.7	0.6
Glossosomatidae	0.3 (1.2)	1.5 (0.1)	18.5	2.6
Phryganeidae	0.3 (1.2)	2.8 (0.3)	11.1	1.7
Hydropsychidae	0.3 (1.2)	0.5 (<0.1)	33.3	4.5
Brachycentridae	<0.1 (0.3)	4.3 (0.4)	7.4	1.1
EPHEMEROPTERA				
Baetidae	0.7 (2.8)	11.1 (1.0)	77.8	11.0
Ephemerellidae	0.9 (3.6)	2.5 (0.2)	26.0	3.9
Hoptageniidae	0.3 (1.2)	<0.1 (<0.1)	33.3	4.5
PLECOPTERA				
Chloroperlidae	3.6 (2.4)	1.0 (<0.1)	44.4	6.2
Perlodidae	1.1 (4.4)	0.6 (<0.1)	11.1	2.1
COLEOPTERA				
Elmidae larvae	<0.1 (0.1)	0.1 (<0.1)	3.7	0.5
Hydrophilidae	0.4 (1.6)	2.6 (0.2)	37.0	5.1
LEPIDOPTERA				
	<0.1 (0.3)	2.3 (0.2)	7.4	1.0
HYDRACARINA				
	0.7 (2.8)	0.1 (<0.1)	22.2	3.3
DIPTERA				
Chironomidae larvae	13.4 (54.0)	2.8 (0.3)	40.4	12.5
Chironomidae pupae	0.9 (3.6)	co.1 (<0.1)	22.2	3.4
Tipulidae	0.3 (1.2)	co.1 (<0.1)	33.3	4.5
Ceratopogonidae	0.4 (1.6)	co.1 (<0.1)	22.2	3.1
Empididae	<0.1 (<0.1)	0.2 (<0.1)	3.7	0.5
Simuliidae	0.3 (1.2)	1.1 (0.1)	14.8	2.1
OLIGOCHAETA				
Lumbriculidae	0.7 (2.8)	782.0 (70.5)	18.5	12.1
NEMATODA				
	<0.1 (0.1)	1.4 (0.1)	3.7	0.5
OSTEICHTHYES				
	<0.1 (<0.1)	266.5 (24.0)	3.7	3.7
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Amphizoidae adult	co.1 (0.1)	2.4 (0.2)	3.7	0.5
Buprestidae	<0.1 (0.1)	1.3 (0.1)	3.7	0.5
HYMENOPTERA				
Formicidae	2.9 (12.0)	19.1 (1.7)	48.1	8.1
ARTHROPODA				
Diplopoda	<0.1 (0.1)	0.4 (<0.1)	3.7	0.5

Table G.41. Seasonal (September) feeding habits of 3+ brook trout (n=2) in Ruby Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
TERRESTRIAL ORGANISMS				
TRICHOPTERA	0.5 (7.1)	1.1 (24.4)	50.0	18.1
HYMENOPTERA				
Formicidae	5.5 (78.6)	2.6 (57.8)	100.0	52.6
HEMIPTERA				
Corixidae	0.5 (7.1)	0.2 (4.4)	50.0	13.7
ARACHNIDA	0.5 (7.1)	0.6 (13.3)	50.0	15.7

Table G.42. Annual feeding habits of 3+ brook trout (n=2) in Ruby Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
TERRESTRIAL ORGANISMS				
TRICHOPTERA	0.2 (8.3)	0.4 (25.5)	16.7	18.0
HYMENOPTERA				
Formicidae	1.8 (75.0)	0.9 (57.3)	33.3	58.5
HEMIPTERA				
Corixidae	0.2 (8.3)	<0.1 (4.5)	16.7	10.4
ARACHNIDA	0.2 (8.3)	0.2 (12.7)	16.7	13.3

Table G.43. Seasonal (September) feeding habits of 1+ cutthroat trout (n=1) in Ruby Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
EPHEMEROPTERA				
Baetidae	1.0 (33.3)	0.1 (0.3)	100.0	26.7
DIPTERA				
Simuliidae	1.0 (33.3)	0.1 (0.3)	100.0	26.7
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	1.0 (33.3)	38.2 (99.5)	100.0	46.5

Table G.44. Annual feeding habits of 1+ cutthroat trout (n=1) in Ruby Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
EPHEMEROPTERA				
Baetidae	0.3 (33.3)	<0.1 (0.8)	33.3	22.5
DIPTERA				
Simuliidae	0.3 (33.3)	<0.1 (0.8)	33.3	22.5
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	0.3 (33.3)	12.7 (98.4)	33.3	55.0

Table G.45. Seasonal (September) feeding habits of 2+ cutthroat trout (n=1) in Ruby Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Psychomyiidae	1.0 (5.6)	2.0 (3.6)	100.0	21.8
LEPIDOPTERA	2.0 (11.1)	12.4 (22.3)	100.0	26.7
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	15.0 (83.3)	41.1 (74.1)	100.0	51.5

Table G.46. Annual feeding habits of 2+ cutthroat trout (n=1) in Ruby Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Psychomyiidae	0.3 (5.0)	0.7 (3.8)	33.3	14.0
LEPIDOPTERA	0.7 (11.7)	4.1 (22.2)	33.3	22.4
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	5.0 (83.3)	13.7 (74.1)	33.3	63.6

Table G.47. Seasonal (July) feeding habits of 1+ rainbow trout (n=1) in Ruby Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	4.0 (100.0)	3.1 (100.0)	100.0	(100.0)

Table G.48. Annual feeding habits of 1+ rainbow trout (n=1) in Ruby Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	1.3 (100.0)	1.0 (100.0)	33.3	100.0

Table G.49. Seasonal (September) feeding habits of 1+ mountain whitefish (n=3) in Ruby Creek for 1990.

PREY ITEMS	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Hydropsychidae	1.0±1.7 (0.9)	3.1 (7.7)	33.3	5.7
EPHEMEROPTERA				
Baetidae	76.3±56.4 (67.9)	22.9 (56.5)	100.0	30.6
Heptageniidae	0.3±0.6 (0.3)	0.1 (0.3)	33.3	4.6
COLEOPTERA				
Elmidae larvae	0.3±0.6 (0.3)	0.1 (0.3)	33.3	4.6
DIPTERA				
Chironomidae larvae	2.0±2.0 (1.8)	0.1 (0.3)	66.7	9.4
Chironomidae pupae	0.7±1.7 (0.6)	0.1 (0.3)	33.3	4.7
Simuliidae larvae	24.7±32.6 (22.0)	13.8 (34.1)	100.0	21.3
Simuliidae pupae	0.3±0.6 (0.3)	0.1 (0.3)	33.3	4.6
CLADOCERA				
Daphnidae	6.3±7.8 (5.6)	0.1 (0.3)	66.7	9.9
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	0.3±0.6 (0.3)	0.1 (0.3)	33.1	4.6

Table G.50. Annual feeding habits of 1+ mountain whitefish (n=3) in Ruby Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Hydropsychidae	0.3 (0.8)	1.0 (7.2)	11.1	5.1
EPHEMEROPTERA				
Baetidae	25.4 (68.1)	7.6 (54.7)	33.3	41.3
Heptageniidae	0.1 (0.3)	<0.1 (0.7)	11.1	3.2
COLEOPTERA				
Elmidae larvae	0.1 (0.3)	<0.1 (0.7)	11.1	3.2
DIPTERA				
Chironomidae larvae	0.7 (1.9)	<0.1 (0.7)	22.2	6.6
Chironomidae pupae	0.2 (0.5)	<0.1 (0.7)	11.1	3.3
Simuliidae larvae	8.2 (22.0)	4.6 (33.1)	33.3	23.4
Simuliidae pupae	0.1 (0.3)	0.1 (0.7)	11.1	3.2
CLADOCERA				
Daphnidae	2.1 (5.6)	0.1 (0.7)	22.2	7.5
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	0.1 (0.3)	<0.1 (0.7)	11.1	3.2

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Table G.51. Seasonal (September) feeding habits of 0+ brown trout (n=3) in Cee Cee Ah Creek for 1990.

PREY ITEMS	Number MEAN.(%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Psychomyiidae	0.7 (13.3)	3.4 (24.3)	33.3	15.2
Glossosomatidae	0.3 (6.7)	1.6 (11.4)	33.3	11.0
EPHEMEROPTERA				
Baetidae	2.7 (53.3)	1.0 (7.1)	66.7	27.2
Heptageniidae	0.3 (6.7)	1.0 (7.1)	33.3	10.1
OSTRACODA	0.3 (6.7)	4.6 (32.9)	33.3	15.6
TERRESTRIAL ORGANISMS				
DIPTERA				
Chironomidae	0.3 (6.7)	1.5 (10.7)	33.3	10.9
Scatopsidae	0.3 (6.7)	0.9 (6.4)	33.3	9.9

Table G.52. Annual feeding habits of 0+ brown trout (n=3) in Cee Cee Ah Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Psychomyiidae	0.2 (12.5)	1.1 (24.4)	11.1	16.6
Glossosomatidae	0.1 (6.3)	0.5 (11.1)	11.1	9.9
EPHEMEROPTERA				
Baetidae	0.9 (56.3)	0.3 (6.7)	22.2	29.5
Heptageniidae	0.1 (6.3)	0.3 (6.7)	11.1	8.3
OSTRACODA	0.1 (6.3)	1.5 (33.3)	11.1	17.5
TERRESTRIAL ORGANISMS				
DIPTERA				
Chironomidae	0.1 (6.3)	0.5 (11.1)	11.1	9.9
Scatopsidae	0.1 (6.3)	0.3 (6.7)	11.1	8.3

Table G.53. Seasonal (April) feeding habits of 1+ brown trout (n=5) in Cee Cee Ah Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.2 (0.6)	0.1 (0.4)	20.0	5.5
COLEOPTERA				
Hydrophilidae	0.2 (0.6)	0.3 (1.1)	20.0	5.7
DIPTERA				
Chironomidae larvae	0.2 (0.6)	0.1 (0.4)	20.0	5.5
Chironomidae pupae	23.0 (68.1)	0.1 (0.4)	20.0	23.3
Ceratopogonidae	0.2 (0.6)	0.1 (0.4)	20.0	5.5
Ptychopteridae	0.2 (0.6)	3.8 (13.6)	20.0	9.0
GASTROPODA				
Planorbidae	0.2 (0.6)	10.4 (37.1)	20.0	15.2
TERRESTRIAL ORGANISMS				
UNKNOWN	9.6 (28.4)	13.1 (46.8)	40.0	30.3

Table G.54. Seasonal (July) feeding habits of 1+ brown trout (n=2) in Cee Cee Ah Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
EPHEMEROPTERA				
Baetidae	2.0 (57.1)	0.8 (25.0)	100.0	40.5
COLEOPTERA				
Elmidae larvae	0.5 (14.3)	0.6 (18.8)	50.0	18.5
DIPTERA				
Simuliidae	0.5 (14.3)	0.1 (3.1)	50.0	15.0
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Hydrophilidae adult	0.5 (14.3)	1.7 (53.1)	50.0	26.1

Table G.55. Annual feeding habits of 1+ brown trout (n=7) in Cee Cee Ah Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	<0.1 (0.8)	<0.1 (0.9)	6.7	2.4
EPHEMEROPTERA				
Baetidae	0.7 (5.5)	0.3 (2.8)	33.3	12.1
COLEOPTERA				
Elmidae larvae	0.2 (1.6)	0.2 (1.8)	16.7	5.8
Hydrophilidae	<0.1 (0.8)	0.1 (0.9)	6.7	2.4
DIPTERA				
Chironomidae larvae	<0.1 (0.8)	<0.1 (0.9)	6.7	2.4
Chironomidae pupae	7.7 (60.2)	<0.1 (0.9)	6.7	19.7
Ceratopogonidae	<0.1 (0.8)	<0.1 (0.9)	6.7	2.4
Ptychopteridae	<0.1 (0.8)	1.3 (11.9)	6.7	5.6
Simuliidae	0.2 (1.6)	<0.1 (0.9)	16.7	5.6
GASTROPODA				
Planorbidae	<0.1 (0.8)	3.5 (32.1)	6.7	11.5
TERRESTRIAL ORGANISMS				
UNKNOWN	3.2 (25.0)	4.4 (40.4)	13.3	22.9
COLEOPTERA				
Hydrophilidae adult	0.2 (1.6)	0.6 (5.5)	16.7	6.9

Table G.56. Seasonal (April) feeding habits of 2+ brown trout (n=3) in Cee Cee Ah Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
PLECOPTERA				
Perlotidae	0.3 (25.1)	0.1 (10.0)	33.3	20.5
Perlidae	0.3 (25.1)	0.7 (70.0)	33.3	38.5
DIPTERA				
Ceratopogonidae	0.3 (25.1)	0.1 (10.0)	33.3	20.5

Table G.57. Seasonal (July) feeding habits of 2+ brown trout (n=4) in Cee Cee Ah Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Glossosomatidae	1.0 (16.7)	4.5 (0.7)	100.0	18.8
PLECOPTERA				
Pteronarcyidae	0.3 (4.2)	6.4 (1.1)	25.0	4.8
COLEOPTERA				
Halplidae	0.3 (4.2)	1.6 (0.3)	25.0	4.7
LEPIDOPTERA	0.3 (4.2)	5.8 (1.0)	25.0	4.8
DIPTERA				
Psychodidae	0.3 (4.2)	0.8 (0.1)	25.0	4.7
Chironomidae larvae	0.3 (4.2)	0.1 (<0.1)	25.0	4.7
Simuliidae	0.3 (4.2)	0.1 (<0.1)	25.0	4.7
OLIGOCHAETA				
Lumbriculidae	0.8 (12.5)	99.9 (16.4)	25.0	8.6
OSTEICHTHYES	0.3 (4.2)	477.3 (78.4)	25.0	17.2
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Buprestidae	0.3 (4.2)	0.1 (0.1)	25.0	4.7
Hydrophilidae adult	0.5 (8.3)	2.2 (0.4)	25.0	5.4
DIPTERA				
Simuliidae	0.5 (8.3)	0.3 (0.1)	25.0	5.3
HYMENOPTERA				
Formicidae	1.3 (20.8)	9.5 (1.6)	50.0	11.6

Table G.58. Annual feeding habits of 2+ brown trout (n=7) in Cee Cee Ah Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Glossosomatidae	0.3 (11.5)	1.5 (0.7)	33.3	11.8
PLECOPTERA				
Perlodidae	0.1 (3.8)	<0.1 (<0.1)	11.1	3.9
Perlidae	0.1 (3.8)	0.2 (<0.1)	11.1	3.9
Pteronarcyidae	0.1 (3.8)	2.1 (1.0)	8.3	3.4
COLEOPTERA				
Elmidae larvae	0.1 (3.8)	<0.1 (<0.1)	11.1	3.9
Halplidae	0.1 (3.8)	0.5 (0.2)	8.3	3.2
LEPIDOPTERA	0.1 (3.8)	1.9 (0.9)	8.3	3.4
DIPTERA				
Chironomidae larvae	0.1 (3.8)	<0.1 (<0.1)	8.3	3.2
Psychodidae	0.1 (3.8)	0.2 (0.1)		3.9
Ceratopogonidae	0.1 (3.8)	<0.1 (<0.1)		3.9
OLIGOCHAETA				
Lumbriculidae	0.3 (11.5)	33.3 (16.4)	8.3	9.4
OSTEICHTHYES	0.1 (3.8)	159.1 (78.2)	8.3	23.4
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Buprestidae	0.1 (3.8)	<0.1 (<0.1)	8.3	3.2
Elmidae adult	0.1 (3.8)	<0.1 (<0.1)	11.1	3.9
Hydrophilidae adult	0.2 (7.7)	0.7 (0.3)	8.3	4.2
DIPTERA				
Simuliidae	0.2 (7.7)	0.1 (<0.1)	8.3	4.2
HYMENOPTERA				
Formicidae	0.4 (15.4)	3.2 (1.6)	16.7	8.7

Table G.59. Seasonal (April) feeding habits of 3+ brown trout (n=1) in Cee Cee Ah Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
LEPIDOPTERA	1.0 (100.0)	6.4 (100.0)	100.0	100.0

Table G.60. Seasonal (July) feeding habits of 3+ brown trout (n=2) in Cee Cee Ah Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Leptoceridae	0.5 (7.7)	22.2 (2.3)	50.0	15.0
Glossosomatidae	5.0 (76.9)	20.8 (2.1)	50.0	32.3
LEPIDOPTERA	0.5 (7.7)	14.8 (1.5)	50.0	14.8
OSTEICHTHYES	0.5 (7.7)	921.0 (94.1)	50.0	38.0

Table G.61. Seasonal (September) feeding habits of 3+ brown trout (n=3) in Cee Cee Ah Creek.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Rhyacophilidae	0.3 (5.6)	0.1 (1.0)	33.3	8.0
Brachycentridae	1.7 (27.8)	3.1 (30.4)	100.0	31.6
EPTHEMEROPTERA				
Baetidae	1.7 (27.8)	1.6 (15.7)	33.3	15.3
DIPTERA				
Chironomidae pupae	0.3 (5.6)	0.8 (7.8)	33.3	9.4
Simuliidae pupae	0.3 (5.6)	1.7 (16.7)	33.3	11.1
NEMATODA	1.0 (16.7)	2.1 (20.6)	33.3	14.1
TERRESTRIAL ORGANISMS				
DIPTERA				
Mycetophilidae	0.7 (11.1)	0.8 (7.8)	33.3	10.5

Table G.62. Annual feeding habits of 3+ brown trout (n=6) in Cee Cee Ah Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Glossosomatidae	1.7 (39.0)	6.9 (2.1)	16.7	14.0
Leptoceridae	0.2 (4.3)	7.4 (2.2)	16.7	5.8
Rhyacophilidae	0.1 (2.2)	<0.1 (<0.1)	11.1	3.4
Brachycentridae	0.6 (13.0)	1.0 (0.3)	33.3	11.7
EPTHEMEROPTERA				
Baetidae	0.6 (13.0)	0.5 (0.2)	11.1	6.1
LEPIDOPTERA	0.5 (10.9)	7.1 (2.1)	50.0	15.8
DIPTERA				
Chironomidae pupae	0.1 (2.2)	0.3 (<0.1)	11.1	3.3
Simuliidae pupae	0.1 (2.2)	0.6 (0.2)	11.1	4.4
NEMATODA	0.3 (6.5)	0.7 (0.2)	11.1	4.5
OSTEICHTHYES	0.2 (4.3)	307.0 (92.5)	16.7	28.4
TERRESTRIAL ORGANISMS				
DIPTERA				
Mycetophilidae	0.2 (4.3)	0.3 (<0.1)	11.1	3.9

Table G.63. Seasonal (July) feeding habits of 4+ brown trout (n=1) in Cee Cee Ah Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
LEPIDOPTERA	3.0 (60.0)	0.7 (0.4)	100.0	32.1
OLIGOCHAETA				
Lumbriculidae	1.0 (20.0)	160.2 (99.1)	100.0	43.9
TERRESTRIAL ORGANISMS				
HEMIPTERA				
Lygaeidae	1.0 (20.0)	0.1 (0.1)	100.0	24.0

Table G.64. Seasonal (September) feeding habits of 4+ brown trout (n=1) in Cee Cee Ah Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Polycentropodidae	2.0 (14.3)	0.9 (8.7)	100.0	17.6
OSTEICHTHYES	1.0 (7.1)	2.5 (24.3)	100.0	18.8
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	7.0 (50.0)	1.0 (9.7)	100.0	22.7
HOMOPTERA				
Cicadellidae	3.0 (21.4)	4.1 (45.6)	100.0	23.9
HEMIPTERA				
Lygaeidae	1.0 (7.1)	1.2 (11.7)	100.0	17.0

Table G.65. Annual feeding habits of 4+ brown trout (n=2) in Cee Cee Ah Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Polycentropodidae	0.7 (11.1)	0.3 (0.5)	34.3	9.1
LEPIDOPTERA	1.0 (15.8)	0.2 (0.4)	34.5	9.2
OLIGOCHAETA				
Lumbriculidae	0.3 (4.8)	53.4 (94.0)	32.1	35.3
OSTEICHTHYES	0.3 (4.8)	0.8 (1.4)	34.4	9.2
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	2.3 (36.5)	0.3 (0.5)	35.9	9.6
HOMOPTERA				
Cicadellidae	1.0 (15.9)	1.4 (2.5)	35.7	9.5
HEMIPTERA				
Lygaeidae	0.7 (11.1)	0.4 (0.7)	67.8	18.1

Table G.66. Seasonal (September) feeding habits of 0+ brook trout (n=3) in Cee Cee Ah Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.3 (5.9)	0.8 (8.8)	33.3	10.3
Brachycentridae	2.7 (47.0)	15. (16.5)	33.3	20.7
PLECOPTERA				
Nemouridae	0.7 (11.8)	0.9 (9.9)	33.3	11.8
HYDRACARINA	0.3 (5.9)	1.6 (17.6)	33.3	12.2
DIPTERA				
Chironomidae pupae	0.3 (5.9)	0.2 (2.2)	33.3	8.9
Tipulidae	0.3 (5.9)	2.8 (30.8)	33.3	15.0
Ceratopogonidae	0.3 (5.9)	0.1 (1.1)	33.3	8.6
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Elmidae adult	0.7 (11.8)	1.2 (13.2)	33.3	12.5

Table G.67. Annual feeding habits of 0+ brook trout (n=3) in Cee Cee Ah Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.1 (5.6)	0.3 (4.0)	1.1	5.1
Brachycentridae	0.9 (50.0)	5.0 (66.7)	1.1	56.4
PLECOPTERA				
Nemouridae	0.2 (11.0)	0.3 (4.0)	1.1	7.7
HYDRACARINA	0.1 (5.6)	0.5 (6.7)	1.1	6.4
DIPTERA				
Chironomidae pupae	0.1 (5.6)	<0.1 (0.9)	1.1	3.6
Tipulidae	0.1 (5.6)	0.9 (12.0)	1.1	9.0
Ceratopogonidae	0.1 (5.6)	<0.1 (0.4)	1.1	3.4
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Elmidae adult	0.2 (11.0)	0.4 (5.3)	1.1	8.3

Table G.68. Seasonal (April) feeding habits of 1+ brook trout (n=5) in Cee Cee Ah Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Lepidostomatidae	0.2 (6.7)	6.3 (9.4)	20.0	10.0
Brachycentridae	0.8 (26.7)	5.7 (8.5)	40.0	20.9
EPHEMEROPTERA				
Heptageniidae	1.2 (40.0)	2.0 (3.0)	20.0	17.5
Leptophlebiidae	0.2 (6.7)	1.1 (1.6)	20.0	7.9
LEPIDOPTERA	0.2 (6.7)	48.5 (72.2)	20.0	27.4
DIPTERA				
Chironomidae pupae	0.2 (6.7)	3.1 (4.6)	20.0	8.7
Ceratopogonidae	0.2 (6.7)	0.5 (0.7)	20.0	7.6

Table G.69. Seasonal (July) feeding habits of 1+ eastern brook trout (n=5) in Cee Cee Ah Creek.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.8 (6.6)	28.3 (40.1)	40.0	12.0
EPHEMEROPTERA				
Baetidae	0.6 (4.9)	4.4 (6.2)	60.0	9.9
Heptageniidae	0.2 (1.6)	1.4 (2.0)	20.0	3.3
PLECOPTERA				
Chloroperlidae	0.2 (1.6)	2.0 (2.8)	20.0	3.4
Perlodidae	0.4 (3.3)	3.0 (4.3)	20.0	3.8
Nemouridae	0.2 (1.6)	2.5 (3.5)	20.0	3.5
HYDRACARINA	2.8 (22.9)	4.8 (6.8)	100.0	18.0
DIPTERA				
Chironomidae larvae	1.6 (13.1)	1.1 (1.6)	60.0	10.3
Ceratopogonidae	0.2 (1.6)	0.8 (1.1)	20.0	3.1
NEMATODA	0.2 (1.6)	1.0 (1.4)	20.0	3.2
OSTRACODA	3.4 (27.9)	1.8 (2.6)	60.0	12.6
GASTROPODA				
Planorbidae	0.2 (1.6)	8.8 (12.4)	20.0	4.7
BIVALVIA	1.0 (8.2)	4.1 (5.8)	20.0	4.7
TERRESTRIAL ORGANISMS				
HOMOPTERA				
Aphididae	0.2 (1.6)	4.1 (5.8)	20.0	3.8
HEMIPTERA				
Lygaeidae	0.2 (1.6)	2.4 (3.4)	20.0	3.5

Table G.70. Seasonal (September) feeding habits of 1+ brook trout (n=3) in Cee Cee Ah Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
EPHEMEROPTERA				
Heptageniidae	1.0 (23.1)	1.1 (19.6)	33.1	19.0
Leptophlebiidae	0.3 (7.7)	3.1 (55.4)	33.3	24.1
DIPTERA				
Chironomidae larvae	1.7 (38.5)	0.1 (1.8)	66.7	26.8
Tipulidae	0.3 (7.7)	1.2 (21.4)	33.3	15.6
OSTRACODA	1.0 (23.1)	0.1 (1.8)	33.3	14.6

Table G.71. Annual feeding habits of 1+ brook trout (n=13) in Cee Cee Ah Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.3 (4.6)	9.4 (19.7)	13.3	7.9
Lepidostomatidae	<0.1 (1.1)	2.1 (4.4)	6.7	2.6
Brachycentridae	0.3 (4.1)	1.9 (4.0)	13.3	4.1
EPHEMEROPTERA				
Baetidae	0.2 (3.1)	1.5 (3.1)	20.0	5.5
Heptageniidae	0.8 (12.3)	1.5 (3.1)	8.1	4.9
Leptophlebiidae	0.2 (3.1)	1.4 (2.9)	17.8	5.0
PLECOPTERA				
Chloroperlidae	<0.1 (1.1)	0.7 (1.5)	6.7	2.0
Perlodidae	0.1 (2.0)	1.0 (2.1)	6.7	2.3
Nemouridae	<0.1 (1.1)	0.8 (1.7)	6.7	2.0
LEPIDOPTERA	<0.1 (1.1)	16.2 (34.0)	6.7	8.8
HYDRACARINA	0.9 (13.8)	1.6 (3.4)	33.3	10.6
DIPTERA				
Chironomidae larvae	1.1 (16.8)	0.4 (0.8)	42.2	12.6
Chironomidae pupae	<0.1 (1.1)	1.0 (2.1)	6.7	2.1
Tipulidae	0.1 (1.5)	0.4 (0.8)	11.1	2.8
Ceratopogonidae	0.1 (1.5)	0.4 (0.8)	13.3	3.3
NEMATODA	<0.1 (1.1)	0.3 (0.6)	6.7	1.8
OSTRACODA	1.5 (23.0)	0.6 (1.3)	31.1	11.6
GASTROPODA				
Planorbidae	<0.1 (1.1)	2.9 (6.1)	6.7	2.9
BIVALVIA	0.3 (5.0)	1.4 (2.9)	6.7	3.1
TERRESTRIAL ORGANISMS				
HOMOPTERA				
Aphididae	<0.1 (1.1)	1.4 (2.9)	6.7	2.2
HEMIPTERA				
Lygaeidae	<0.1 (1.1)	0.8 (1.7)	6.7	2.0

Table G.72. Seasonal (July) feeding habits of 2+ brook trout (n=5) in Cee Cee Ah Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Glossosomatidae	0.8 (8.5)	7.3 (11.1)	60.0	10.5
EPHEMEROPTERA				
Baetidae	1.4 (14.9)	3.2 (4.9)	20.0	5.2
Heptageniidae	0.2 (2.1)	2.1 (3.2)	20.0	3.3
PLECOPTERA				
Chloroperlidae	0.2 (2.1)	0.7 (1.0)	20.0	3.0
Nemouridae	0.4 (4.3)	2.6 (3.9)	40.0	6.3
COLEOPTERA				
Elmidae larvae	0.2 (2.1)	0.3 (0.5)	20.0	3.0
Staphylinidae	0.2 (2.1)	3.1 (4.7)	20.0	3.5
HYDRACARINA	0.8 (8.5)	1.8 (2.7)	40.0	6.7
DIPTERA				
Chironomidae larvae	0.8 (8.5)	5.1 (7.7)	40.0	7.4
Chironomidae pupae	0.8 (8.5)	1.5 (2.3)	80.0	11.9
NEMATODA	0.2 (2.1)	4.2 (6.4)	20.0	3.8
OSTRACODA	1.2 (12.8)	0.1 (0.2)	60.0	9.6
GASTROPODA				
Planorbidae	1.6 (17.0)	30.4 (46.1)	60.0	16.2
BIVALVIA				
Sphaeriidae	0.2 (2.1)	0.1 (0.2)	20.0	2.9
TERRESTRIAL ORGANISMS				
EPHEMEROPTERA				
Ephemereilidae adult	0.2 (2.1)	2.8 (4.2)	20.0	3.5
HYMENOPTERA				
Formicidae	0.2 (2.1)	0.7 (1.1)	20.0	3.1

Table G.73. Seasonal (September) feeding habits of 2+ brook trout (n=4) in Cee Cee Ah Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Hydroptilidae	0.5 (4.2)	0.1 (0.5)	50.0	8.4
Limnephilidae	0.5 (4.2)	6.5 (35.0)	50.0	13.7
Rhyacophilidae	0.3 (2.5)	0.6 (3.2)	25.0	4.7
Ephemeroptera				
Baetidae	0.3 (2.5)	0.1 (0.5)	25.0	4.3
Ephemerellidae	1.0 (8.5)	0.2 (1.1)	50.0	9.2
HYDRACARINA	0.3 (2.5)	0.1 (0.5)	25.0	4.3
DIPTERA				
Chironomidae larvae	5.0 (42.4)	0.1 (0.5)	50.0	14.3
Chironomidae pupae	0.3 (2.5)	0.1 (0.5)	25.0	4.3
OSTRACODA	0.3 (2.5)	0.1 (0.5)	25.0	4.3
GASTROPODA				
Planorbidae	0.8 (6.8)	6.9 (37.1)	50.0	14.5
BIVALVIA				
Sphaeriidae	2.5 (21.2)	3.7 (19.9)	75.0	17.9

Table G.74. Annual feeding habits of 2+ brook trout (n=9) in Cee Cee Ah Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Hydroptilidae	0.2 (2.8)	<0.1 (0.1)	16.7	3.6
Limnephilidae	0.2 (2.8)	2.2 (7.9)	16.7	5.1
Rhyacophilidae	0.1 (1.4)	0.2 (0.7)	8.3	1.9
Glossosomatidae	0.3 (4.2)	2.4 (8.6)	20.0	6.1
EPEHEMEROPTERA				
Baetidae	0.6 (8.3)	1.1 (3.9)	15.0	5.1
Ephemerellidae	0.3 (4.2)	<0.1 (0.3)	16.7	4.0
Heptageniidae	<0.1 (1.0)	0.7 (2.5)	6.7	1.9
PLECOPTERA				
Chloroperlidae	<0.1 (1.0)	0.2 (0.7)	6.7	1.6
Nemuridae	0.1 (1.4)	0.9 (3.2)	13.3	3.3
COLEOPTERA				
Elnidae larvae	<0.1 (1.0)	0.1 (0.4)	6.7	1.5
Staphylinidae	<0.1 (1.0)	1.0 (3.7)	6.7	2.1
HYDRACARINA	0.4 (5.6)	0.6 (2.1)	22.0	5.5
DIPTERA				
Chironomidae larvae	1.9 (26.4)	1.7 (6.1)	30.0	11.6
Chironomidae pupae	<0.4 (5.6)	0.5 (1.8)	35.0	7.9
NEMATODA	<0.1 (1.0)	1.4 (5.0)	6.7	2.4
OSTRACODA	0.5 (7.0)	co.1 (0.3)	28.3	6.6
GASTROPODA				
Planorbidae	0.8 (11.1)	12.4 (44.2)	36.7	17.1
BIVALVIA	0.9 (12.5)	1.3 (4.6)	31.7	9.1
TERRESTRIAL ORGANISMS				
EPEHEMEROPTERA				
Ephemerellidae	<0.1 (1.0)	0.9 (3.2)	6.7	2.0
HYMENOPTERA				
Formicidae	co.1 (1.0)	0.2 (0.7)	6.7	1.6

Table G.75. Seasonal (September) feeding habits of 3+ brook trout (n=1) in Cee Cee Ah Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
COLEOPTERA				
Amphizoidae	1.0 (12.2)	0.1 (1.9)	100.0	13.9
LEPIDOPTERA	0.2 (2.4)	2.0 (37.7)	20.0	7.3
DIPTERA				
Chironomidae larvae	1.0 (12.2)	0.7 (13.2)	100.0	15.3
Chironomidae pupae	1.0 (12.2)	0.1 (1.9)	100.0	13.9
Ceratopogonidae	1.0 (12.2)	0.9 (17.0)	100.0	15.8
BIVALVIA	1.0 (12.2)	1.0 (18.9)	100.0	16.0
TERRESTRIAL ORGANISMS				
DIPTERA				
Chironomidae	3.0 (36.6)	0.5 (9.4)	100.0	17.8

Table G.76. Annual feeding habits of 3+ brook trout (n=1) in Cee Cee Ah Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
COLEOPTERA				
Amphizoidae	0.3 (11.7)	<0.1 (1.7)	33.3	11.5
LEPIDOPTERA	<0.1 (2.7)	0.7 (40.0)	6.7	12.1
DIPTERA				
Chironomidae larvae	0.3 (11.7)	0.2 (11.3)	33.3	13.8
Chironomidae pupae	0.3 (11.7)	<0.1 (1.7)	33.3	11.5
Ceratopogonidae	0.3 (11.7)	0.3 (17.0)	33.3	15.2
BIVALVIA	0.3 (11.7)	0.3 (17.0)	33.3	15.2
TERRESTRIAL ORGANISMS				
DIPTERA				
Chironomidae	1.0 (39.0)	0.2 (11.4)	33.3	20.6

Table G.77. Seasonal (September) feeding habits of 1+ cutthroat trout (n=7) in Cee Cee Ah Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Psychomyiidae	0.1 (3.2)	12.2 (4.5)	14.3	3.8
Glossosomatidae	0.1 (3.2)	5.7 (2.1)	14.3	3.4
Hydropsychidae	0.1 (3.2)	20.5 (7.5)	14.3	4.4
Brachycentridae	0.3 (6.5)	0.1 (<0.1)	28.6	6.1
PLECOPTERA				
Perlodidae	0.1 (3.2)	1.5 (0.5)	14.3	3.1
Chloroperlidae	0.3 (6.5)	0.1 (<0.1)	28.6	6.1
Nemouridae	0.4 (9.7)	0.1 (<0.1)	28.6	6.7
COLEOPTERA				
Elmidae adult	0.4 (9.7)	0.3 (0.1)	28.6	6.7
Georyssidae	0.1 (3.2)	0.1 (<0.1)	14.3	3.1
Hydrophilidae	0.1 (3.2)	0.8 (0.3)	14.3	3.1
LEPIDOPTERA	0.1 (3.2)	191.9 (70.2)	14.3	15.3
DIPTERA				
Chironomidae larvae	0.3 (6.5)	0.1 (<0.1)	14.3	3.7
Chironomidae pupae	0.1 (3.2)	0.1 (<0.1)	14.3	3.1
OSTRACODA	0.4 (9.7)	0.1 (<0.1)	14.3	4.2
TERRESTRIAL ORGANISMS				
DIPTERA				
Sphaeroceridae	0.1 (3.2)	1.0 (0.4)	14.3	3.1
Simuliidae	0.3 (6.5)	0.1 (<0.1)	28.6	6.1
HYMENOPTERA				
Formicidae	0.3 (6.5)	38.2 (14.0)	28.6	8.6
COLLEMBOLA	0.3 (6.5)	0.5 (0.2)	28.6	6.2
PSCOPTERA				
Psocidae	0.1 (3.2)	0.1 (<0.1)	14.3	3.1

Table G.78. Annual feeding habits of 1+ cutthroat trout (n=7) in Cee Cee Ah Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Psychomyiidae	<0.1 (5.9)	4.1 (4.8)	4.8	5.0
Glossosomatidae	<0.1 (5.9)	1.9 (2.2)	4.8	4.2
PLECOPTERA				
Perlodidae	<0.1 (5.9)	0.5 (0.6)	4.8	3.6
Chloroperlidae	<0.1 (5.9)	<0.1 (0.1)	9.5	5.0
Nemouridae	0.1 (5.9)	<0.1 (0.1)	9.5	5.0
COLEOPTERA				
Elmidae adult	0.1 (5.9)	0.1 (0.1)	9.5	5.0
Georyssidae	<0.1 (5.9)	<0.1 (0.1)	4.8	3.5
Hydrophilidae	<0.1 (5.9)	0.3 (0.3)	4.8	3.5
LEPIDOPTERA	<0.1 (5.9)	64.0 (75.4)	4.8	27.8
DIPTERA				
Chironomidae larvae	0.1 (5.9)	<0.1 (0.1)	4.8	3.5
Chironimidae pupae	<0.1 (5.9)	<0.1 (0.1)	4.8	3.5
OSTRACODA	0.1 (5.9)	<<0.1 (0.1)	4.8	3.5
TERRESTRIAL ORGANISMS				
DIPTERA				
Sphaeroceridae	<0.1 (5.9)	0.3 (0.4)	4.8	3.6
Simuliidae	0.1 (5.9)	<0.1 (0.1)	9.5	5.0
HYMENOPTERA				
Formicidae	0.1 (5.9)	12.7 (15.0)	9.5	9.8
COLLEMBOLA	0.1 (5.9)	0.2 (0.2)	9.5	5.0
PSCOPTERA				
Psocidae	<0.1 (5.9)	<0.1 (0.1)	4.8	3.5

Table G.79. Seasonal (September) feeding habits of 2+ cutthroat trout (n=1) in Cee Cee Ah Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	1.0 (100.0)	2.8 (100.0)	100.0	100.0

Table G.80. Annual feeding habits of 2+ cutthroat trout (n=1) in Cee Cee Ah Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	0.3 (100.0)	0.9 (100.0)	33.3	100.0

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Table G.81. Seasonal (September) feeding habits of 4+ brown trout (n=1) in Tacoma Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Polycentropodidae	2.0 (25.0)	1.4 (20.0)	100.0	18.1
Brachycentridae	1.0 (12.5)	0.1 (1.4)	100.0	14.2
LEPIDOPTERA	1.0 (12.5)	2.4 (34.3)	100.0	18.4
NEMATODA	1.0 (12.5)	1.5 (21.4)	100.0	16.7
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	2.0 (25.0)	0.5 (7.1)	100.0	16.5
ARACHNIDAE	1.0 (12.5)	1.1 (15.7)	100.0	16.0

Table G.82. Annual feeding habits of 4+ brown trout (n=1) in Tacoma Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Polycentropodidae	0.7 (26.9)	0.5 (20.0)	33.3	20.1
Brachycentridae	0.3 (11.5)	<0.1 (4.0)	33.3	12.2
LEPIDOPTERA	0.3 (11.5)	0.8 (32.0)	33.3	19.2
NEMATODA	0.3 (11.5)	0.5 (20.0)	33.3	16.2
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	0.7 (26.9)	0.2 (8.0)	33.3	17.1
ARACHNIDA	0.3 (11.5)	0.4 (16.0)	33.3	15.2

Table G.83. Seasonal (September) feeding habits of 0+ brook trout (n=2) in Tacoma Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
PLECOPTERA				
Nemouridae	0.5 (14.3)	1.5 (16.7)	50.0	20.2
COLEOPTERA				
Elmidae larvae	0.5 (14.3)	1.5 (16.7)	50.0	20.2
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Elmidae adult	2.0 (57.1)	1.8 (20.0)	50.0	31.8
HYMENOPTERA				
Formicidae	0.5 (14.3)	4.2 (46.7)	50.0	27.7

Table G.84. Annual feeding habits of 0+ brook trout (n=2) in Tacoma Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
PLECOPTERA				
Nemouridae	0.2 (15.4)	0.5 (16.7)	16.7	18.3
COLEOPTERA				
Elmidae larvae	0.2 (15.4)	0.5 (16.7)	16.7	18.3
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Elmidae adult	0.7 (53.8)	0.6 (20.0)	16.7	33.9
HYMENOPTERA				
Formicidae	0.2 (15.4)	1.4 (46.7)	16.7	29.5

Table G.85. Seasonal (July) feeding habits of 1+ brook trout (n=2) in Tacoma Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
COLEOPTERA				
Dytiscidae	0.5 (16.7)	1.5 (26.8)	50.0	23.4
DIPTERA				
Chironomidae larvae	1.5 (50.0)	0.4 (7.1)	50.0	26.8
Ceratopogonidae	0.5 (16.7)	0.8 (14.3)	50.0	20.2
Tabanidae	0.5 (16.7)	2.9 (51.8)	50.0	29.6

Table G.86. Seasonal (September) feeding habits of 1+ brook trout (n=5) in Tacoma Creek for 1990.

PREY ITEMS	Number MEAN±S.D.(%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Brachycentridae	0.2±0.5 (2.9)	0.6 (0.3)	20.0	5.3
COLEOPTERA				
Elmidae larvae	0.2±0.5 (2.9)	1.0 (0.5)	20.0	5.3
LEPIDOPTERA				
	0.2±0.5 (2.9)	2.0 (1.1)	20.0	5.4
DIPTERA				
Chironomidae larvae	5.0±10.6 (71.4)	2.2 (1.2)	40.0	25.6
Tipulidae	0.2±0.5 (2.9)	0.7 (0.4)	20.0	5.3
Simuliidae	0.2±0.5 (2.9)	0.2 (0.1)	20.0	5.2
OSTEICHTHYES				
	0.2±0.5 (2.9)	15.5 (8.4)	20.0	7.1
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	0.2±0.5 (2.9)	1.7 (0.9)	20.0	5.4
HEMIPTERA				
Corixidae	0.2±0.5 (2.9)	0.1 (<0.1)	20.0	5.2
Nabidae	0.2±0.5 (2.9)	2.0 (1.1)	20.0	5.4
LEPIDOPTERA				
Cossidae	0.2±0.5 (2.9)	159.0 (86.0)	20.0	24.7

Table G.87. Annual feeding habits of 1+ brook trout (n=7) in Tacoma Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Brachycentridae	<0.1 (2.6)	0.2 (0.3)	6.7	2.8
COLEOPTERA				
Elmidae larvae	<0.1 (2.6)	0.3 (0.5)	6.7	2.8
Dytiscidae	0.2 (5.3)	0.3 (0.8)	16.7	6.6
LEPIDOPTERA	<0.1 (2.6)	0.7 (1.1)	6.7	3.0
DIPTERA				
Chironomidae larvae	2.2 (57.9)	0.9 (1.4)	30.0	25.7
Tipulidae	<0.1 (2.6)	0.2 (0.3)	6.7	2.8
Ceratopogonidae	0.2 (5.3)	0.3 (0.5)	16.7	6.5
Tabanidae	0.2 (5.3)	1.0 (1.6)	16.7	6.8
Simuliidae	<0.1 (2.6)	<0.1 (0.2)	6.7	2.7
OSTEICHTHYES	<0.1 (2.6)	5.2 (8.2)	6.7	5.0
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	<0.1 (2.6)	0.6 (0.9)	6.7	2.9
HEMIPTERA				
Nabidae	<0.1 (2.6)	0.7 (1.1)	6.7	3.0
Corixidae	<0.1 (2.6)	<0.1 (0.2)	6.7	2.7
LEPIDOPTERA				
Cossidae	<0.1 (2.6)	53.0 (83.1)	6.7	26.6

Table G.88. Seasonal (July) feeding habits of 2+ brook trout (n=6) in Tacoma Creek for 1990.

	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Rhyacophilidae	0.3 (2.2)	5.8 (0.3)	33.3	5.6
Ephemeroptera				
Baetidae	0.2 (1.1)	0.4 (<0.1)	16.7	2.8
Ephemerellidae	0.2 (1.1)	4.7 (0.3)	16.7	2.9
Heptageniidae	0.2 (1.1)	2.0 (0.1)	16.7	2.8
PLECOPTERA				
Chloroperlidae	0.3 (2.2)	1.3 (<0.1)	16.7	3.0
COLEOPTERA				
Dytiscidae	0.2 (1.1)	1.5 (<0.1)	16.7	2.8
HYDRACARINA	0.3 (2.2)	0.9 (<0.1)	16.7	3.0
DIPTERA				
Chironomidae larvae	8.3 (54.9)	0.9 (<0.1)	83.3	21.8
Chironomidae pupae	0.3 (2.2)	0.8 (<0.1)	33.3	5.6
Ceratopogonidae	1.3 (8.8)	3.5 (<0.1)	50.0	9.3
OLIGOCHAETA				
Lumbriculidae	2.7 (17.6)	1843.2 (98.2)	66.7	28.8
NEMATODA	0.5 (3.3)	12.5 (0.7)	33.3	5.9
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	0.3 (2.2)	1.4 (<0.1)	33.3	5.6

Table G.89. Seasonal (September) feeding habits of 2+ brook trout (n=2) in Tacoma Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
Ephemeroptera				
Ephemerellidae	0.5 (5.3)	3.2 (20.7)	50.0	10.9
LEPIDOPTERA	0.5 (5.3)	0.4 (2.6)	50.0	8.3
DIPTERA				
Chironomidae larvae	1.0 (10.5)	0.8 (5.2)	50.0	9.4
Chironomidae pupae	1.0 (10.5)	0.1 (0.7)	50.0	8.7
Simuliidae	0.5 (5.3)	0.1 (0.7)	50.0	8.0
TERRESTRIAL ORGANISMS				
DIPTERA				
Asilidae	0.5 (5.3)	1.0 (6.5)	50.0	8.8
HYMENOPTERA				
Formicidae	4.5 (47.4)	5.6 (36.1)	100.0	26.2
Sphecidae	0.5 (5.3)	1.8 (11.6)	50.0	9.6
HEMIPTERA				
Nabidae	0.5 (5.3)	2.5 (16.1)	50.0	10.2

**Table G.90. Annual feeding habits of 2+ brook trout (n=8)
in Tacoma Creek for 1990.**

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Rhyacophilidae	0.1 (1.2)	1.9 (0.3)	11.1	2.5
EPHEMEROPTERA				
Baetidae	<0.1 (1.2)	0.1 (<0.1)	5.6	1.3
Ephemerellidae	0.2 (2.4)	2.6 (0.4)	22.2	4.9
Heptageniidae	<0.1 (1.2)	0.7 (0.1)	5.6	1.3
PLECOPTERA				
Chloroperlidae	0.1 (1.2)	0.4 (<0.1)	5.6	1.3
COLEOPTERA				
Dytiscidae	<0.1 (1.2)	0.5 (<0.1)	5.6	1.3
LEPIDOPTERA	0.2 (2.4)	0.1 (<0.1)	16.7	3.7
HYDRACARINA	0.1 (1.2)	0.3 (<0.1)	5.6	1.3
DIPTERA				
Chironomidae larvae	3.1 (36.9)	0.6 (<0.1)	44.4	15.9
Chironomidae pupae	0.4 (4.8)	0.3 (<0.1)	27.8	6.4
Ceratopogonidae	0.4 (4.8)	1.2 (0.2)	16.7	4.2
Simuliidae	0.2 (2.4)	<0.1 (<0.1)	16.7	3.7
OLIGOCHAETA				
Lumbriculidae	0.9 (10.7)	614.4 (97.3)	22.2	25.4
NEMATODA	0.2 (2.4)	4.2 (0.7)	11.1	2.8
TERRESTRIAL ORGANISMS				
DIPTERA				
Asilidae	0.2 (2.4)	0.3 (<0.1)	16.7	3.7
HYMENOPTERA				
Formicidae	1.6 (19.0)	2.3 (0.4)	44.4	12.5
Sphecidae	0.2 (2.4)	0.6 (<0.1)	16.7	3.7
HEMIPTERA				
Nabidae	0.2 (2.4)	0.8 (0.1)	16.7	3.7

Table G.91. Seasonal (September) feeding habits of 0+ cutthroat trout (n=3) in Tacoma Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
EPHEMEROPTERA				
Baetidae	0.3 (10.0)	5.3 (12.4)	33.3	11.9
LEPIDOPTERA	0.7 (20.0)	0.1 (0.2)	33.3	11.5
DIPTERA				
Chironomidae pupae	0.3 (10.0)	0.1 (0.2)	33.3	9.3
Simuliidae pupae	0.3 (10.0)	3.4 (7.9)	33.3	11.0
Chaoboridae	0.3 (10.0)	0.1 (0.2)	33.3	9.3
NEMATODA	1.0 (30.0)	0.1 (0.2)	66.7	20.8
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	0.3 (10.0)	33.7 (78.7)	33.3	26.2

Table G.92. Annual feeding habits of 0+ cutthroat trout (n=3) in Tacoma Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
EPHEMEROPTERA				
Baetidae	0.1 (10.0)	1.8 (12.4)	11.1	11.6
LEPIDOPTERA	0.2 (20.0)	<0.1 (0.7)	11.1	11.0
DIPTERA				
Chironimidae pupae	0.1 (10.0)	<0.1 (0.7)	11.1	7.5
Chaoboridae	0.1 (10.0)	<0.1 (0.7)	11.1	7.5
Simuliidae pupae	0.1 (10.0)	1.1 (7.6)	11.1	9.9
NEMATODA	0.3 (30.0)	<0.1 (0.7)	22.2	18.3
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formi ci dae	0.1 (10.0)	11.2 (77.2)	11.1	34.0

Table G.93. Seasonal (September) feeding habits of 1+ cutthroat trout (n=2) in Tacoma Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Psychomyiidae	1.0 (4.4)	24.7 (65.6)	50.0	12.0
Brachycentridae	0.5 (2.2)	0.1 (0.3)	50.0	5.2
Glossosomatidae	0.5 (2.2)	5.7 (15.2)	50.0	6.7
EPIHEMEROPTERA				
Baetidae	13.0 (57.8)	0.1 (0.3)	100.0	15.8
PLECOPTERA				
Perlodidae	0.5 (2.2)	1.5 (3.9)	50.0	5.6
Capniidae	0.5 (2.2)	0.1 (0.3)	50.0	5.2
COLEOPTERA				
Scarabaeidae	0.5 (2.2)	2.1 (5.6)	50.0	5.8
DIPTERA				
Chironomidae larvae	0.5 (2.2)	0.1 (0.3)	50.0	5.2
Chironomidae pupae	0.5 (2.2)	0.1 (0.3)	50.0	5.2
NEMATODA	1.0 (4.4)	0.1 (0.3)	50.0	5.5
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Forniciidae	2.5 (11.1)	0.1 (0.3)	100.0	11.1
LEPIDOPTERA				
Cossidae	0.5 (2.2)	2.3 (6.1)	50.0	5.8
ARACHNIDA	0.5 (2.2)	0.7 (1.9)	50.0	5.4
UNKNOWN	0.5 (2.2)	0.1 (0.3)	50.0	5.2

Table G.94. Annual feeding habits of 1+ cutthroat trout (n=2) in Tacoma Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Psychomyiidae	0.3 (3.9)	8.2 (62.6)	16.7	17.8
Glossosomatidae	0.2 (2.6)	1.9 (14.5)	16.7	7.2
Brachycentridae	0.2 (2.6)	<0.1 (0.8)	16.7	4.3
EPHEMEROPTERA				
Baetidae	4.3 (55.8)	<0.1 (0.8)	33.3	19.3
PLECOPTERA				
Perlodidae	0.2 (2.6)	0.5 (3.8)	16.7	5.0
Capniidae	0.2 (2.6)	<0.1 (0.8)	16.7	4.3
COLEOPTERA				
Scarabaeoidea	0.2 (2.6)	0.7 (5.3)	16.7	5.3
DIPTERA				
Chironomidae larvae	0.2 (2.6)	<0.1 (0.8)	16.7	4.3
Chironomidae pupae	0.2 (2.6)	<0.1 (0.8)	16.7	4.3
NEMATODA	0.3 (3.9)	<0.1 (0.8)	16.7	4.6
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	0.8 (10.4)	<0.1 (0.8)	33.3	9.5
LEPIDOPTERA				
Cossidae	0.2 (2.6)	0.8 (6.1)	16.7	5.4
ARACHNIDAE	0.2 (2.6)	0.2 (0.8)	16.7	4.3
UNKNOWN	0.2 (2.6)	<0.1 (0.8)	16.7	4.3

Table G.95. Seasonal (September) feeding habits of 2+ cutthroat trout (n=1) in Tacoma Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Psychomyiidae	8.0 (23.5)	16.1 (18.2)	100.0	15.7
Glossosomatidae	1.0 (2.9)	0.1 (0.1)	100.0	11.4
EPHEMEROPTERA				
Baetidae	2.0 (5.9)	1.1 (1.2)	100.0	11.9
PLECOPTERA				
Capniidae	1.0 (2.9)	0.1 (0.1)	100.0	11.4
LEPIDOPTERA	4.0 (11.8)	24.7 (27.9)	100.0	15.5
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	17.0 (50.0)	46.6 (52.6)	100.0	22.5
HOMOPTERA				
Cicadellidae	1.0 (2.9)	0.1 (0.1)	100.0	11.4

Table G.96. Annual feeding habits of 2+ cutthroat trout (n=1) in Tacoma Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Psychomyiidae	2.7 (23.9)	5.4 (18.1)	33.3	17.4
Glossosomatidae	0.3 (2.7)	<0.1 (0.3)	33.3	8.4
EPHEMEROPTERA				
Baetidae	0.7 (6.2)	0.4 (1.3)	33.3	9.4
PLECOPTERA				
Capniidae	0.3 (2.7)	<0.1 (0.3)	33.3	8.4
LEPIDOPTERA	1.3 (11.5)	8.2 (27.5)	33.3	16.7
TERRESTRIAL ORGANISMS				
HYMENOPTERA				
Formicidae	5.7 (50.4)	15.5 (52.0)	33.3	31.3
HOMOPTERA				
Cicadellidae	0.3 (2.7)	<0.1 (0.3)	33.3	8.4

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Table G.97. Seasonal (July) feeding habits of 0+ brown trout (n=3) in Skookum Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
DIPTERA				
Chironomidae larvae	0.7 (66.7)	0.1 (50.0)	66.7	61.1
TERRESTRIAL ORGANISMS				
HOMOPTERA				
Aphididae	0.3 (33.3)	0.1 (50.0)	33.0	38.9

Table G.98. Seasonal (September) feeding habits of 0+ brown trout (n=3) in Skookum Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Glossosomatidae	0.3 (6.3)	0.8 (20.5)	33.3	15.0
Psychomyiidae	0.3 (6.3)	0.2 (5.1)	33.3	11.2
EPTHEMEROPTERA				
Baetidae	3.0 (56.3)	2.5 (64.1)	66.7	46.8
DIPTERA				
Chironomidae larvae	0.3 (6.3)	0.1 (2.6)	33.3	10.5
TERRESTRIAL ORGANISMS				
COLLEMBOLA	1.3 (25.0)	0.3 (7.7)	33.3	16.5

Table G.99. Annual feeding habits of 0+ brown trout (n=3) in Skookum Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Glossosomatidae	0.1 (5.0)	0.3 (20.0)	11.1	12.0
Psychomyiidae	0.1 (5.0)	<0.1 (6.7)	11.1	7.6
EPTHEMEROPTERA				
Baetidae	1.0 (50.0)	0.8 (53.3)	22.2	41.8
DIPTERA				
Chironomidae larvae	0.3 (15.0)	<0.1 (6.7)	33.3	18.3
TERRESTRIAL ORGANISMS				
HOMOPTERA				
Aphididae	0.1 (5.0)	<0.1 (6.7)	11.0	7.6
COLLEMBOLA	0.4 (20.0)	0.1 (6.7)	11.1	12.6

Table G.100. Seasonal (April) feeding habits of 1+ brown trout (n=7) in Skookum Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Hydropsychidae	0.3 (10.5)	4.8 (52.2)	28.6	25.5
Brachycentridae	0.1 (5.3)	0.1 (1.1)	14.3	5.8
EPHEMEROPTERA				
Baetidae	1.4 (52.7)	2.3 (25.0)	57.1	37.7
Heptageniidae	0.6 (21.1)	1.7 (18.5)	28.6	19.1
DIPTERA				
Chironomidae pupae	0.1 (5.3)	0.1 (1.1)	14.3	5.8
Simuliidae	0.1 (5.3)	0.2 (2.2)	14.3	6.1

Table G.101. Seasonal (July) feeding habits of 1+ brown trout (n=4) in Skookum Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
EPHEMEROPTERA				
Baetidae	2.3 (34.6)	1.7 (0.4)	75.0	22.0
PLECOPTERA				
Perlodidae	0.3 (3.9)	2.7 (0.6)	25.0	5.9
LEPIDOPTERA				
	0.8 (11.5)	2.6 (0.6)	25.0	7.4
DIPTERA				
Chironomidae larvae	0.3 (3.9)	1.8 (0.4)	25.0	5.9
Tipulidae	0.3 (3.9)	3.3 (0.7)	25.0	5.9
Psychodidae	0.3 (3.9)	0.3 (<0.1)	25.0	5.8
OLIGOCHAETA				
Lumbriculidae	1.8 (26.9)	423.0 (94.3)	25.0	29.2
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Amphizoidae adult	0.3 (3.9)	9.7 (2.2)	25.0	6.2
HOMOPTERA				
Aphididae	0.3 (3.9)	1.1 (0.3)	25.0	5.8
ARTHROPODA				
Chilopoda	0.3 (3.9)	2.3 (0.5)	25.0	5.9

Table G.102. Seasonal (September) feeding habits of 1+ brown trout (n=3) in Skookum Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
EPHEMEROPTERA				
Baetidae	1 .0 (100.0)	0.1 (100.0)	100.0	100.0

Table G.103. Annual feeding habits of 1+ brown trout (n=14) in Skookum Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Hydropsychidae	0.1 (2.6)	1.6 (1.0)	9.5	3.4
Brachycentridae	<0.1 (2.6)	<0.1 (<0.1)	4.8	1.9
EPHEMEROPTERA				
Baetidae	1.6 (42.1)	1.4 (0.9)	77.4	31.2
Heptageniidae	0.2 (5.3)	0.6 (0.4)	9.5	3.9
PLECOPTERA				
Perlodidae	0.1 (2.6)	0.9 (0.6)	8.3	3.0
LEPIDOPTERA				
	0.3 (7.9)	0.9 (0.6)	8.3	4.4
DIPTERA				
Chironomidae larvae	0.1 (2.6)	0.6 (0.4)	8.3	2.9
Chironomidae pupae	<0.1 (2.6)	<0.1 (<0.1)	4.8	1.9
Tipulidae	0.1 (2.6)	1.1 (0.7)	8.3	3.0
Psychodidae	0.1 (2.6)	0.1 (<0.1)	8.3	2.9
Simuliidae	<0.1 (2.6)	<0.1 (<0.1)	4.8	1.9
OLIGOCHAETA				
Lumbriculidae	0.6 (15.8)	141.0 (92.2)	8.3	30.2
TERRESTRIAL ORGANISMS				
COLEOPTERA				
Amphizoidae adult	0.1 (2.6)	3.2 (2.1)	8.3	3.4
HOMOPTERA				
Aphididae	0.1 (2.6)	0.4 (0.3)	8.3	2.9
ARTHROPODA				
Chilopoda	0.1 (2.6)	0.8 (0.5)	8.3	3.0

Table G.104. Seasonal (April) feeding habits of 2+ brown trout (n=4) in Skookum Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Lepidostomatidae	0.5 (5.7)	6.0 (11.1)	50.0	10.7
Glossosomatidae	2.8 (31.4)	46.8 (8.5)	100.0	22.4
Brachycentridae	1.3 (14.3)	5.6 (10.4)	50.0	12.0
EPHEMEROPTERA				
Baetidae	0.8 (8.6)	2.5 (4.6)	50.0	10.1
Ephemerellidae	0.5 (5.7)	7.1 (13.1)	50.0	11.0
COLEOPTERA				
Hydrophilidae	0.8 (8.6)	19.3 (35.7)	25.0	11.1
DIPTERA				
Chironomidae larvae	0.5 (5.7)	1.7 (3.1)	50.0	9.4
NEMATODA	0.5 (5.7)	0.1 (0.2)	25.0	4.9
TERRESTRIAL ORGANISMS				
UNKNOWN	1.3 (14.3)	7.2 (13.3)	25.0	8.4

Table G.105. Seasonal (July) feeding habits of 2+ brown trout (n=1) in Skookum Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Glossosomatidae	1.0 (100.0)	1.0 (100.0)	100.0	100.0

Table G.106 Seasonal (September) feeding habits of 2+ brown trout (n=1) in Skookum Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Rhyacophilidae	1.0 (7.1)	0.1 (1.5)	100.0	15.5
Glossosomatidae	5.0 (35.7)	1.9 (28.8)	100.0	23.5
Brachycentridae	2.0 (14.3)	2.4 (36.4)	100.0	21.5
EPHEMEROPTERA				
Baetidae	5.0 (35.7)	1.3 (19.7)	100.0	22.2
COLEOPTERA				
Amphizoidae	1.0 (7.1)	0.9 (13.6)	100.0	17.2

Table G.107. Annual feeding habits of 2+ brown trout (n=6) in Skookum Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Lepidostomatidae	0.2 (2.5)	2.0 (5.7)	16.7	4.6
Glossosomatidae	2.9 (36.2)	16.6 (47.6)	100.0	33.9
Rhyacophilidae	0.3 (3.8)	<0.1 (0.3)	33.3	6.9
Brachycentridae	1.1 (13.8)	2.7 (7.7)	50.0	13.2
EPTHEMEROPTERA				
Baetidae	1.9 (23.8)	1.3 (3.7)	50.0	14.3
Ephemerellidae	0.2 (2.5)	2.4 (6.9)	16.7	4.8
COLEOPTERA				
Hydrophilidae	0.3 (3.8)	6.4 (18.3)	8.3	5.6
Amphizoidae	0.3 (3.8)	0.3 (0.8)	33.3	7.0
DIPTERA				
Chironomidae larvae	0.2 (2.5)	0.6 (1.7)	16.7	3.9
NEMATODA	0.2 (2.5)	<0.1 (0.3)	8.3	2.0
TERRESTRIAL ORGANISMS				
UNKNOWN	0.4 (5.0)	2.4 (6.9)	8.3	3.7

Table G.108. Seasonal (April) feeding habits of 3+ brown trout (n=2) in Skookum Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Glossosomatidae	1.5 (37.5)	3.8 (52.8)	50.0	35.1
Brachycentridae	2.0 (50.0)	2.9 (40.3)	100.0	47.6
DIPTERA				
Chironomidae larvae	0.5 (12.5)	0.5 (6.9)	50.0	17.4

Table G.109. Seasonal (September) feeding habits of 3+ brown trout (n=1) in Skookum Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Rhyacophilidae	1.0 (50.0)	2.2 (55.0)	100.0	51.3
Brachycentridae	1.0 (50.0)	1.8 (45.0)	100.0	48.7

Table G.110. Annual feeding habits of 3+ brown trout (n=2) in Skookum Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Glossosomatidae	0.5 (29.4)	1.3 (38.2)	16.7	28.1
Brachycentridae	0.7 (41.2)	1.0 (29.4)	33.3	34.6
DIPTERA				
Chironomidae larvae	0.5 (29.4)	1.1 (32.4)	50.0	37.3

Table G.111. Seasonal (September) feeding habits of 4+ brown trout (n=1) in Skookum Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
TERRESTRIAL ORGANISMS				
DIPTERA				
Simuliidae	1.0 (25.0)	0.9 (10.1)	100.0	22.5
Stratiomyidae	1.0 (25.0)	1.9 (21.4)	100.0	24.4
HEMIPTERA				
Miridae	1.0 (25.0)	1.2 (13.5)	100.0	23.1
ARTHROPODA				
Diplopoda	1.0 (25.0)	4.9 (55.1)	100.0	30.0

Table G.112. Annual feeding habits of 4+ brown trout (n=1) in Skookum Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
TERRESTRIAL ORGANISMS				
DIPTERA				
Simuliidae	0.3 (25.0)	0.3 (10.3)	33.3	20.6
Stratiomyidae	0.3 (25.0)	0.6 (20.7)	33.3	23.7
HEMIPTERA				
Miridae	0.3 (25.0)	0.4 (13.8)	33.3	21.6
ARTHROPODA				
Diplopoda	0.3 (25.0)	1.6 (55.2)	33.3	34.1

Table G.113. Seasonal (July) feeding habits of 0+ brook trout (n=5) in Skookum Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Brachycentridae	0.6 (25.0)	2.8 (24.5)	40.0	26.3
EPHEMEROPTERA				
Baetidae	1.0 (41.7)	3.0 (26.2)	40.0	25.9
DIPTERA				
Chironomidae larvae	0.4 (16.7)	1.3 (11.7)	40.0	20.1
Simuliidae	0.2 (8.3)	1.4 (12.2)	20.0	11.9
NEMATODA	0.2 (8.3)	2.9 (25.4)	20.0	15.8

Table G.114. Seasonal (September) feeding habits of 0+ brook trout (n=1) in Skookum Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Hydroptilidae	1.0 (20.0)	0.9 (28.1)	100.0	29.6
COLEOPTERA				
Dytiscidae	1.0 (20.0)	1.8 (56.3)	100.0	35.3
DIPTERA				
Chironomidae larvae	3.0 (60.0)	0.5 (15.6)	100.0	35.1

Table G.115. Annual feeding habits of 0+ brook trout (n=6) in Skookum Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Hydroptilidae	0.3 (12.5)	0.3 (6.1)	33.3	14.7
Brachycentridae	0.2 (8.3)	0.9 (18.4)	13.3	11.3
EPHEMEROPTERA				
Baetidae	0.3 (12.5)	1.0 (20.4)	13.3	13.1
COLEOPTERA				
Dytiscidae	0.3 (12.5)	0.6 (12.2)	33.3	16.4
DIPTERA				
Chironomidae larvae	1.1 (45.8)	0.6 (12.2)	46.7	29.6
Simuliidae	<0.1 (4.2)	0.5 (10.2)	6.7	6.0
NEMATODA	<0.1 (4.2)	1.0 (20.4)	6.7	8.9

Table G.116. Seasonal (April) feeding habits of 1+ brook trout (n=2) in Skookum Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
EPHEMEROPTERA				
Baetidae	0.5 (25.0)	2.8 (38.4)	50.0	32.4
PLECOPTERA				
Perlodidae	1.0 (50.0)	1.7 (23.3)	50.0	35.2
COLEOPTERA				
Amphizoidae	0.5 (25.0)	2.8 (38.4)	50.0	32.4

Table G.117. Seasonal (July) feeding habits of 1+ brook trout (n=2) in Skookum Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.5 (33.3)	7.1 (50.6)	50.0	38.2
Philopotamidae	0.5 (33.3)	3.1 (22.2)	50.0	30.2
OLIGOCHAETA				
Lumbriculidae	0.5 (33.3)	3.8 (27.2)	50.0	31.6

Table G.118. Seasonal (September) feeding habits of 1+ brook trout (n=4) in Skookum Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
EPHEMEROPTERA				
Baetidae	2.3 (4.8)	2.6 (3.8)	75.0	15.2
Ephemerellidae	0.3 (0.5)	5.6 (8.2)	25.0	6.1
LEPIDOPTERA	0.5 (1.1)	29.4 (43.2)	50.0	17.1
COLEOPTERA				
Dytiscidae	0.8 (1.6)	1.1 (1.6)	25.0	5.1
DIPTERA				
Chironomidae larvae	37.5 (79.4)	20.0 (29.4)	100.0	38.0
Chironomidae pupae	5.5 (11.6)	5.6 (8.2)	25.0	8.1
TERRESTRIAL ORGANISMS				
ARACHNIDA	0.3 (0.5)	1.9 (2.8)	25.0	5.1
BIVALVIA	0.3 (0.5)	1.8 (2.7)	25.0	5.1

Table G.119. Annual feeding habits of 1+ brook trout (n=8) in Skookum Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.2 (1.2)	2.4 (8.0)	16.7	6.1
Philopotamidae	0.2 (1.2)	1.0 (3.3)	16.7	5.0
EPHEMEROPTERA				
Baetidae	0.9 (5.2)	1.8 (5.8)	41.7	12.4
Ephemerellidae	0.1 (0.6)	1.9 (6.4)	8.3	3.6
PLECOPTERA				
Perlodidae	0.3 (1.7)	0.6 (2.0)	16.7	4.8
COLEOPTERA				
Dytiscidae	0.3 (1.7)	0.4 (1.3)	8.3	2.7
Amphizoidae	0.2 (1.2)	0.9 (3.0)	16.7	4.9
LEPIDOPTERA	0.2 (1.2)	9.8 (31.7)	16.7	11.7
DIPTERA				
Chironomidae larvae	12.5 (72.7)	6.7 (21.7)	33.3	30.1
Chironomidae pupae	1.8 (10.5)	1.9 (6.4)	8.3	5.9
OLIGOCHAETA				
Lumbriculidae	0.2 (1.2)	1.3 (4.3)	16.7	5.2
NEMATODA	<0.1 (0.6)	1.0 (3.2)	6.7	2.5
TERRESTRIAL ORGANISMS				
ARACHNIDA	0.1 (0.6)	0.6 (2.0)	8.3	2.6
BIVALVIA	0.1 (0.6)	0.6 (2.0)	8.3	2.6

Table G.120. Seasonal (April) feeding habits of 2+ brook trout (n=6) in Skookum Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Glossosomatidae	0.5 (10.0)	1.3 (13.9)	16.7	10.6
Brachycentridae	0.2 (3.3)	2.1 (23.1)	16.7	11.2
EPTHEMEROPTERA				
Baetidae	0.5 (10.0)	0.1 (1.1)	16.7	1.5
Ephemerellidae	0.2 (3.3)	0.4 (4.4)	16.7	6.4
Leptophlebiidae	0.2 (3.3)	2.3 (25.3)	16.7	11.8
DIPTERA				
Chironomidae pupae	0.5 (10.0)	0.1 (1.1)	50.0	15.9
TERRESTRIAL ORGANISMS				
DIPTERA				
Simuliidae	0.2 (3.3)	1.2 (13.2)	16.7	8.7
HYMENOPTERA				
Formicidae	0.2 (3.3)	0.7 (7.9)	16.7	7.3
UNKNOWN	27.0 (53.3)	0.9 (9.9)	16.7	20.8

Table G.121. Seasonal (July) feeding habits of 2+ brook trout (n=1) in Skookum Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
TERRESTRIAL ORGANISMS				
ARTHROPODA				
Chilopoda	2.0 (100.0)	38.7 (100.0)	100.0	100.0

Table G.122. Seasonal (September) feeding habits of 2+ brook trout (n=3) in Skookum Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	1.0 (3.4)	20. (1.4)	100.0	13.1
Psychomyiidae	2.0 (6.8)	4.5 (3.2)	66.7	9.6
EPHEMEROPTERA				
Baetidae	17.0 (58.0)	36.5 (26.0)	100.0	23.0
Ephemerellidae	1.0 (3.4)	2.5 (1.8)	66.7	9.0
Heptageniidae	1.3 (4.6)	0.1 (<0.1)	33.3	4.7
PLECOPTERA				
Perlidae	0.7 (2.3)	0.8 (0.6)	33.3	4.5
COLEOPTERA				
Dytiscidae	0.3 (1.4)	0.6 (0.4)	33.3	4.4
DIPTERA				
Chironomidae larvae	5.0 (17.1)	1.9 (1.4)	66.7	10.6
Chironomidae pupae	0.3 (1.1)	0.6 (0.4)	33.3	4.3
Simuliidae	0.3 (1.1)	0.1 (<0.1)	33.3	4.3
OSTEICHTHYES	0.3 (1.1)	91.1 (64.8)	33.3	12.4

Table G.123. Annual feeding habits of 2+ brook trout (n=10) in Skookum Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Limnephilidae	0.3 (2.4)	0.7 (1.1)	33.3	7.4
Psychomyiidae	0.7 (5.7)	1.5 (2.4)	22.2	6.1
Glossosomatidae	0.2 (1.6)	0.4 (0.6)	5.6	1.6
Brachycentridae	<0.1 (0.8)	0.7 (1.1)	5.6	1.5
EPHEMEROPTERA				
Baetidae	5.8 (47.2)	12.2 (19.4)	38.9	21.3
Ephemerellidae	0.4 (3.3)	1.0 (1.6)	27.8	6.6
Leptophlebiidae	<0.1 (0.8)	0.8 (1.3)	5.6	1.6
Heptageniidae	0.4 (3.3)	<0.1 (0.2)	11.1	3.0
PLECOPTERA				
Perlodidae	0.2 (1.6)	0.3 (0.5)	11.1	2.7
COLEOPTERA				
Dytiscidae	0.1 (0.8)	0.2 (0.3)	11.1	2.5
DIPTERA				
Chironomidae larvae	1.7 (13.8)	0.6 (1.0)	22.2	7.5
Chironomidae pupae	0.3 (2.4)	0.2 (0.3)	27.8	6.2
Simuliidae	0.1 (0.8)	<0.1 (0.2)	11.1	2.4
OSTEICHTHYES	0.1 (0.8)	30.4 (48.3)	11.1	12.2
TERRESTRIAL ORGANISMS				
DIPTERA				
Simuliidae	<0.1 (0.8)	0.4 (0.6)	5.6	1.4
HYMENOPTERA				
Formicidae	<0.1 (0.8)	0.2 (0.3)	5.6	1.4
ARTHROPODA				
Chilopoda	0.7 (5.7)	12.9 (20.5)	33.3	12.0
UNKNOWN	0.9 (7.3)	0.3 (0.5)	5.6	2.7

Table G.124. Seasonal (September) feeding habits of 3+ brook trout (n=2) in Skookum Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
EPHEMEROPTERA				
Baetidae	1.5 (42.9)	1.9 (0.1)	100.0	31.8
DIPTERA				
Chironomidae larvae	1.5 (42.9)	0.1 (<0.1)	100.0	31.8
OSTEICHTHYES	0.5 (14.3)	1893.1 (99.9)	50.0	36.3

Table G.125. Annual feeding habits of 3+ brook trout (n=2) in Skookum Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
EPHEMEROPTERA				
Baetidae	0.5 (50.0)	0.6 (<0.1)	29.4	26.5
DIPTERA				
Chironomidae larvae	0.3 (30.0)	<0.1 (<0.1)	22.4	17.5
OSTEICHTHYES	0.2 (20.0)	631.0 (99.8)	48.2	56.0

Table G.126. Seasonal (July) feeding habits of 1+ cutthroat trout (n=2) in Skookum Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Brachycentridae	0.5 (33.3)	2.1 (30.4)	50.0	32.5
EPHEMEROPTERA				
Tricorythidae	0.5 (33.3)	1.4 (20.3)	50.0	29.6
COLEOPTERA				
Elmidae larvae	0.5±0.7 (33.3)	3.4 (49.3)	50.0	37.9

Table G.127. Annual feeding habits of 1+ cutthroat trout (n=2) in Skookum Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Brachycentridae	0.2 (33.3)	0.7 (30.4)	16.7	32.2
EPHEMEROPTERA				
Tricorythidae	0.2 (33.3)	0.5 (21.7)	16.7	28.7
COLEOPTERA				
Elmidae larvae	0.2 (33.3)	1.1 (47.8)	16.7	39.1

Table G.128. Seasonal (September) feeding habits of 2+ cutthroat trout (n=1) in Skookum Creek for 1990.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Psychomyiidae	4.0 (16.0)	8.0 (37.2)	100.0	19.1
EPEHEMEROPTERA				
Baetidae	6.0 (24.0)	3.2 (14.9)	100.0	17.4
Ephemerellidae	12.0 (48.0)	9.8 (45.6)	100.0	24.2
PLECOPTERA				
Nemouridae	1.0 (4.0)	0.3 (1.4)	100.0	13.2
DIPTERA				
Chironomidae Simuliidae pupae	1.0 1.0 (4.0) (4.0)	0.1 0.1 (0.5) (0.5)	100.0 100.0	13.1 13.1

Table G.129. Annual feeding habits of 2+ cutthroat trout (n=1) in Skookum Creek.

PREY ITEMS	Number MEAN (%)	Weight MEAN (%)	Occurrence %	IRI %
AQUATIC ORGANISMS				
TRICHOPTERA				
Psychomyiidae	1.3 (15.9)	2.7 (36.5)	33.3	21.4
EPEHEMEROPTERA				
Baetidae	2.0 (24.4)	1.1 (14.9)	33.3	18.1
Ephemerellidae	4.0 (48.8)	3.3 (44.6)	33.3	31.7
PLECOPTERA				
Nemouridae	0.3 (3.7)	0.1 (1.4)	33.3	9.6
DIPTERA				
Chironimidae pupae	0.3 (3.7)	<0.1 (1.4)	33.3	9.6
Simuliidae	0.3 (3.7)	<0.1 (1.4)	33.3	9.6