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FISHERIES AND HABITAT INVESTIGATIONS
OF TRIBUTARY STREAMS
IN THE SOUTHERN PORTION
OF THE AOSERP STUDY AREA
VOLUME II

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Calgary, Alberta

For
THE ALBERTA OIL SANDS ENVIRONMENTAL RESEARCH PROGRAM
Project WS 1.6.2

April 1980

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A. BENTHIC MACROINVERTEBRATE COLLECTIONS

Figure 1 shows the locations of sampling sites in the AOSERP study area south of Fort McMurray. Data summarizing the species composition, density, and community structure of benthic macroinvertebrate samples taken at these sites are presented in Tables 1 to 43.

FIGURE 1. The project study area showing the location of sampling stations.

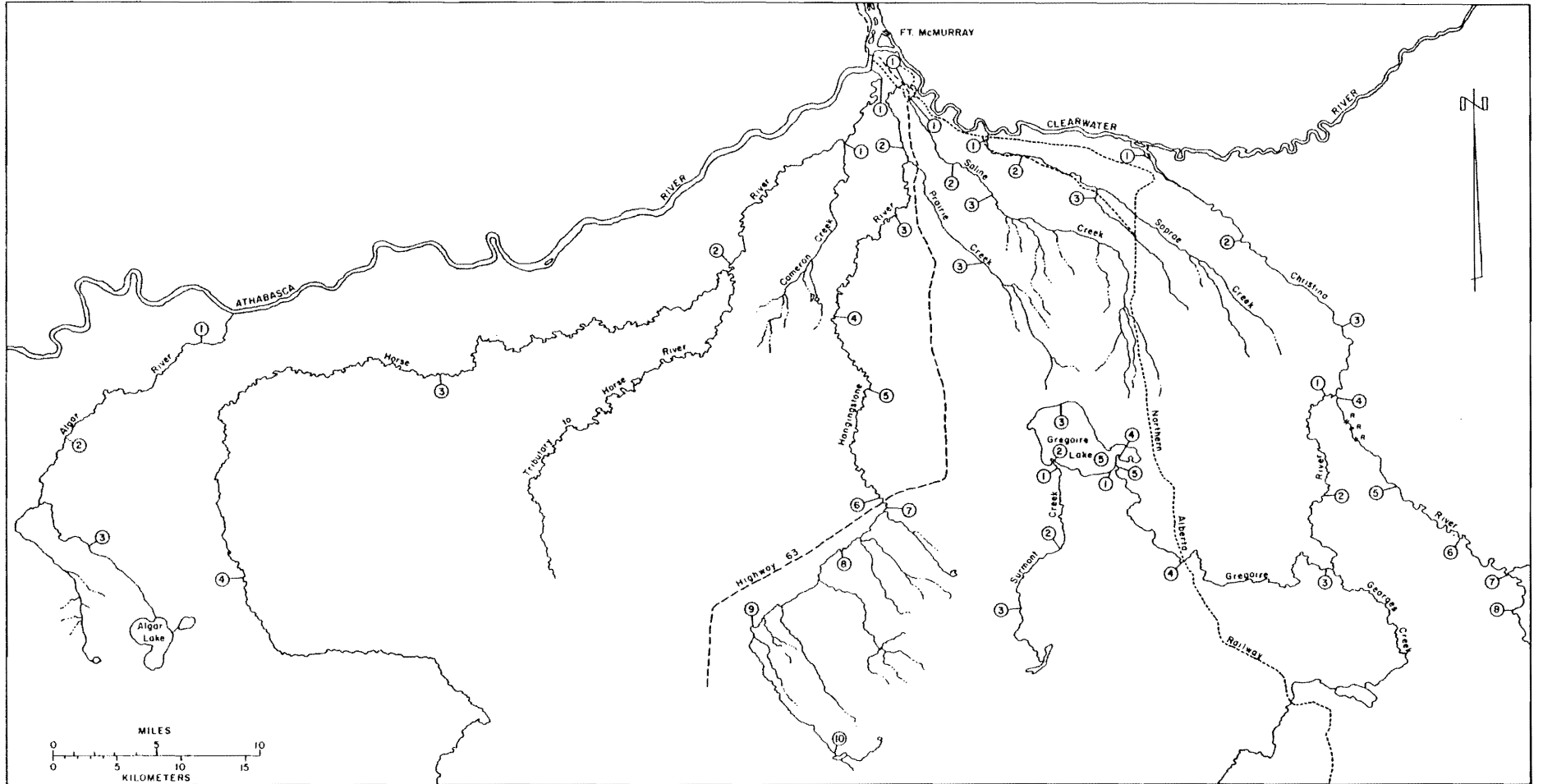


Table 1. Density and community structure of benthic macroinvertebrates from Hangingstone River, Alberta, Station Number One, June and August 1978.

Taxon	June		August	
	No/m ²	%	No/m ²	%
Oligochaeta	0		1225	(45.79)
Ephemeroptera	145	(76.72)	31	(1.16)
<i>Rhithrogena</i> sp.	4		0	
<i>Heptagenia</i> sp.	4		0	
<i>Pseudocloeon</i> sp. 1	11		4	
<i>Baetis</i> sp.	19		11	
<i>Metretopus borealis</i>	48		0	
<i>Ephemerella (Ephemerella) inermis</i>	55		4	
<i>Parameletus</i> sp.	4		0	
<i>Ephemerella</i> sp.	0		4	
<i>Trichorythodes minutus</i>	0		4	
<i>Pseudocloeon</i> sp. 2	0		4	

Continued...

Table 1. Continued.

Taxon	June		August	
	No/m ²	%	No/m ²	%
Trichoptera				
Hydropsychidae sp.	0		4	(0.15)
Diptera				
Chironomidae	15	(11.64)	1378	(51.51)
<i>Paratanytarsus</i> sp.	7		0	
<i>Polypedilum fallax</i> gr.	4		0	
<i>Thienemannemyia</i> gr.	4		26	
<i>Cricotopus</i> sp.	0		1232	
<i>Orthocladus</i> sp.	0		59	
<i>Parametriocnemus</i> sp.	0		7	
<i>Potthastia</i> sp.	0		11	
<i>Nanocladus</i> sp.	0		15	
<i>Brillia</i> sp.	0		4	
<i>Rheotanytarsus</i> sp.	0		4	

4

Continued...

Table 1. Continued.

Taxon	June		August	
	No/m ²	%	No/m ²	%
<i>Demicryptochironomus</i> sp.	0		4	
<i>Odontomesa</i> sp.	0		4	
<i>Ablabesmyia</i> sp.	0		4	
<i>Cryptochironomus</i> sp.	0		4	
<i>Eukiefferiella</i> sp.	0		4	
Orthocladiinae	7		0	
Empididae				
<i>Hemerodromia</i> sp.	22	(11.64)	22	(0.82)
Ceratopogonidae				
<i>Palpomyia</i> sp.	0		4	(0.15)
Athericidae				
<i>Atherix</i> sp.	0		7	(0.26)
Gastropoda				
<i>Ferrissia</i> sp.	0		4	(0.15)

Continued...

Table 1. Concluded.

Taxon	June		August	
	No/m ²	%	No/m ²	%
Total number of Taxa	12		25	
Total number of organisms/m ²	189		2675	
Species Diversity (\bar{d})	2.02		1.22	
Equitability (e)	0.42		0.10	
Biovolume (cc/m ²)	0.90		1.30	

Table 2. Density and community structure of benthic macroinvertebrates from Hangingstone River, Alberta, Station Number Two, June to October 1978.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
Oligochaeta	0		39	(5.05)	11	(3.47)
Ephemeroptera	215	(80.52)	123	(15.93)	208	(65.62)
<i>Rhithrogena</i> sp.	52		17		6	(65.62)
<i>Ephemerella inermis</i>	22		0		0	
<i>Baetis</i> sp.	118		78		129	
<i>Psuedocloeon</i> sp. 1	4		0		0	
<i>Heptagenia</i> sp.	19		11		0	
<i>Ameletus</i> sp.	0		11		6	
<i>Ephemerella</i> sp.	0		6		67	
Odonata						
<i>Ophiogomphus</i> sp.	0		6	(0.78)	0	
Plecoptera	22	(8.24)	52	(6.72)	74	(23.34)
<i>Alloperla</i> or <i>Hastaperla</i> sp.	22		6		0	

Continued...

Table 2. Continued.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
<i>Arcynopteryx</i> sp.	0		34		6	
Perlodidae sp.	0		6		11	
<i>Pteronarcys</i> (s.s.) sp.	0		6		6	
<i>Isoperla</i> sp.	0		0		28	
<i>Acroneuria</i> sp.	0		0		6	∞
<i>Capnia</i> or <i>Eucapnopsis</i> sp.	0		0		11	
<i>Taeniopteryx</i> sp.	0		0		6	
Trichoptera	19	(7.12)	421	(54.53)	12	(3.79)
<i>Hydropsyche</i> sp. 1	15		0		0	
<i>Hydropsyche</i> sp. 2	0		39		0	
<i>Hydropsyche</i> sp. 4	0		56		4	
<i>Brachycentrus</i> sp.	4		207		4	
Hydropsychidae sp.	0		62		0	

Continued...

Table 2. Continued.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
<i>Arctopsyche</i> sp.	0		17		0	
<i>Glossosoma</i> sp.	0		34		0	
<i>Lepidostoma</i> sp.	0		6		4	
Diptera			131	(16.97)		
Athericidae						6
<i>Atherix</i> sp.	7	(2.62)	0		0	
Chironomidae			109	(14.12)	6	(1.89)
<i>Cricotopus</i> sp. 1	0		6		0	
<i>Cricotopus</i> sp. 2	0		6		0	
<i>Cricotopus</i> sp. 3	0		34		0	
<i>Orthocladius</i> sp.	0		22		0	
<i>Eukieferiella</i> sp. 1	0		6		6	
<i>Eukieferiella</i> sp. 2	0		6		0	
<i>Eukieferiella</i> sp. 3	0		6		0	
<i>Eukieferiella</i> sp. 4	0		6		0	

Continued...

Table 2: Concluded.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
<i>Rheocricotopus</i> sp.	0		6		0	
<i>Thienemannimyia</i> sp.	0		6		0	
<i>Phaenopsectra (Tribelos)</i> sp.	0		6		0	
Empididae						
<i>Wiedemannia</i> sp.	0		11	(1.42)	0	(1.89) ¹⁰
<i>Chelifera</i> sp.	0		0		6	
Simuliidae						
<i>Simulium</i> sp.	4	(1.50)	11	(1.42)	0	
Total number of Taxa	10		30		18	
Total number of organisms/m ²	267		772		317	
Species Diversity (\bar{d})	1.80		2.0		2.0	
Equitability (e)	0.40		0.30		0.30	
Biovolume (cc/m ²)	1.80		1.10		0.80	

Table 3. Density and community structure of benthic macroinvertebrates from Hangingstone River, Alberta, Station Number Three, June to October 1978.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
Oligochaeta	0		26	(13.54)	50	(16.78)
Ephemeroptera	110	(60.44)	49	(25.52)	118	(39.60)
<i>Baetis</i> sp.	33		33		39	
<i>Cinygmula</i> sp.	4		0		0	
<i>Ephemerella</i> sp.	7		0		11	
<i>Ephemerella (Ephemerella) inermis</i>	22		4		0	
<i>Heptagenia</i> sp.	7		4		0	
<i>Pseudocloeon</i> sp. 1	37		0		0	
<i>Pseudocloeon</i> sp. 2	0		4		0	
<i>Rhithrogena</i> sp.	0		4		62	
<i>Stenonema</i> sp.	0		0		6	
Odonata		(2.20)		(2.08)		
<i>Ophiogomphus</i> sp.	4		4		0	

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Continued...

Table 3. Continued.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
Plecoptera	30	(16.48)	15	(7.81)	34	(11.41)
<i>Alloperla</i> or <i>Hastaperla</i> sp.	11		0		6	
<i>Arcynopteryx</i> sp.	0		4		0	
<i>Isoperla</i> sp.	0		4		17	
<i>Pteronarcys</i> sp.	19		0		11	
<i>Pteronarcys (Pteronarcys) dorsata</i>	0		7		0	
Trichoptera			49	(25.52)	68	(22.82)
<i>Brachycentrus</i> sp.	0		7		28	
<i>Glossosoma</i> sp.	0		4		34	
<i>Hydropsyche</i> sp. 2	0		15		0	
<i>Hydropsyche</i> sp. 4	0		4		0	
<i>Lepidostoma</i> sp.	0		0		6	
<i>Psychomyia flavida</i>	0		19		0	

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Continued...

Table 3. Continued.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
Diptera						
Athericidae						
<i>Atherix</i> sp.	4	(2.20)	4	(2.08)	22	(7.38)
Chironomidae						
<i>Cladotanytarsus</i> sp.	0		19		0	15
<i>Cricotopus</i> sp.	0		11		0	
<i>Paralauterborniella</i> sp.	4	(2.20)	0		0	
<i>Rheotanytarsus</i> sp.	0		4		0	
<i>Thienemannimyia</i> gr.	0		7		0	
Empididae						
<i>Hemerodromia</i> sp.	26	(14.29)	4	(2.08)	0	
Simuliidae						
<i>Simulium</i> sp.	4	(2.20)	0		6	(2.01)
Total number of Taxa	14		21		13	

Continued...

Table 3. Concluded.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
Total number of organisms/m ²	182		192		298	
Species Diversity (\bar{d})	2.10		2.70		2.20	
Equitability (e)	0.50		0.50		0.50	
Biovolume (cc/m ²)	0.70		1.80		1.10	

Table 4. Density and community structure of benthic macroinvertebrates from Hangingstone River, Alberta, Station Number Four, August and October 1978.

Taxon	August		October	
	No/m ²	%	No/m ²	%
Oligochaeta	44	(5.88)	0	
Nematoda	4	(0.53)	0	
Ephemeroptera	319	(42.65)	530	(71.72) 卅
<i>Ameletus</i> sp.	22		0	
<i>Baetis</i> sp.	167		310	
<i>Ephemerella</i> sp.	4		110	
<i>Heptagenia</i> sp.	48		0	
<i>Pseudocloeon</i> sp. 1	26		0	
<i>Rhithrogena</i> sp.	37		110	
Siphonuridae sp.	15		0	
Odonata				
<i>Ophiogomphus</i> sp.	4	(0.52)	0	

Continued...

Table 4. Continued.

Taxon	August		October	
	No/m ²	%	No/m ²	%
Plecoptera	111	(14.84)	77	(10.42)
<i>Alloperla</i> or <i>Hastaperla</i> sp.	26		33	
<i>Arcynopteryx</i> sp.	37		11	
<i>Isoperla</i> sp.	11		11	
<i>Nemoura (Zapada) cinctipes</i>	0		11	
Perlodidae sp.	22		0	
<i>Pteronarcys</i> sp.	15		0	
<i>Taeniopteryx</i> sp.	0		11	
Trichoptera	41	(5.48)	55	(7.44)
<i>Brachycentrus</i> sp.	22		33	
<i>Glossosoma</i> sp.	0		11	
<i>Hydropsyche</i> sp. 1	11		0	
<i>Hydropsyche</i> sp. 3	4		0	
<i>Hydropsyche</i> sp. 4	4		11	

Continued...

Table 4. Continued.

Taxon	August		October	
	No/m ²	%	No/m ²	%
Diptera				
Athericidae				
<i>Atherix</i> sp.	15	(2.01)	66	(8.93)
Chironomidae				
<i>Ablabesmyia</i> sp.	4		0	
<i>Cladotanytarsus</i> sp.	56		0	
<i>Cricotopus</i> sp.	15		0	
<i>Micropsectra</i> sp.	4		0	
<i>Parakiefferiella</i> sp.	19		0	
<i>Paracladopelma</i> sp.	4		0	
<i>Polypedilum</i> sp.	4		0	
<i>Polypedilum fallax</i> gr.	26		0	
<i>Potthastia</i> sp.	4		0	
<i>Stictochironomus</i> sp.	4		0	
<i>Syncricotopus</i> sp.	4		0	
				Continued...

Table 4. Concluded.

Taxon	August		October	
	No/m ²	%	No/m ²	%
<i>Synorthocladius</i> sp.	7		0	
<i>Thienemanniella</i> sp.	4		0	
<i>Thienemannimyia</i> gr.	15		0	
<i>Eukiefferiella</i> sp.	7		0	
Simuliidae				
<i>Simulium</i> sp.	22	(2.94)	11	(1.49)
Tipulidae				
<i>Limnophila</i> sp.	11	(1.47)	0	
Total number of Taxa	37		13	
Total number of organisms/m ²	748		739	
Species Diversity (\bar{d})	3.0		2.80	
Equitability (e)	0.30		0.70	
Biovolume (cc/m ²)	4.8		10.0	

Table 5. Density and community structure of benthic macroinvertebrates from Hangingstone River, Alberta, Station Number Five, June to October 1978.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
Oligochaeta	0		0		17	(8.29)
Ephemeroptera	1093	(87.30)	23	(45.10)	130	(63.41)
<i>Baetis</i> sp.	67		17		34	
<i>Cinygmula</i> sp.	95		0		0	
<i>Ephemerella</i> sp.	0		0		17	
<i>Ephemerella (Ephemerella) inermis</i>	118		0		0	
<i>Ephemerella spinifera</i>	6		0		0	
<i>Heptagenia</i> sp.	17		0		0	
<i>Leptophlebia</i> sp.	0		0		11	
<i>Pseudocloeon</i> sp. 1	790		6		6	
<i>Rhithrogena</i> sp.	0		0		62	
Odonata						
<i>Ophiogomphus</i> sp.	6	(0.48)	0		0	

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Continued...

Table 5. Continued.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
Plecoptera	12	(0.96)	11	(21.57)	29	(14.15)
<i>Alloperla</i> or <i>Hastaperla</i> sp.	12		0		17	
<i>Arcynopteryx</i> sp.	0		11		6	
<i>Taeniopteryx</i> sp.	0		0		6	
Trichoptera						20
<i>Brachycentrus</i> sp.	0		11	(21.57)	17	(8.29)
Diptera						
Athericidae						
<i>Atherix</i> sp.	0		0		6	(2.93)
Chironomidae	23	(1.84)				
<i>Cricotopus</i> sp.	17		6	(11.76)	0	
<i>Rheotanytarsus</i> sp.	6		0		0	
Empididae	51	(4.07)				
<i>Chelifera</i> sp.	6		0		0	

Continued...

Table 5. Concluded.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
<i>Hemerodromia</i> sp.	45		0		0	
Simuliidae						
<i>Simulium</i> sp.	67	(5.35)	-		6	(2.93)
Total number of Taxa	13		5		12	
Total number of organisms/m ²	1252		51		205	
Species Diversity (\bar{d})	1.50		1.70		2.3	
Equitability (e)	0.20		0.70		0.5	
Biovolume (cc /m ²)	3.30		0.60		0.1	

Table 6. Density and community structure of benthic macroinvertebrates from Hangingstone River, Alberta, Station Number Six, June to October 1978.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
Oligochaeta	0		19	(6.67)	45	(8.70)
Ephemeroptera	350	(69.58)	29	(10.18)	39	(7.54)
<i>Ameletus</i> sp.	0		0		11	
<i>Baetis</i> sp.	155		22		17	
<i>Cinygmula</i> sp.	107		0		0	
<i>Ephemerella inermis</i>	26		0		0	
<i>Ephemerella (Drunella) spinifera</i>	11		7		11	
<i>Ephemerella (Ephemerella) inermis</i>	11		0		0	
<i>Pseudocloeon</i> sp. 1	40		0		0	
Plecoptera	12	(2.39)	48	(16.84)	34	(6.58)
<i>Alloperla</i> or <i>Hastaperla</i> sp.	8		22		34	
<i>Arcynopteryx</i> sp.	0		7		0	
<i>Isoperla</i> sp.	4		0		0	

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Continued...

Table 6. Continued.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
<i>Nemoura (Zapada) cinctipes</i>	0		4		0	
Perlodidae sp.	0		4		0	
<i>Pteronarcella</i> sp.	0		11		0	
Trichoptera	41	(8.15)	48	(16.84)	347	(67.12)
<i>Brachycentrus</i> sp.	37		33		336	
<i>Glossosoma</i> sp.	0		11		11	
<i>Hydropsyche</i> sp.	0		4		0	
<i>Onocosmoecus</i> sp.	4		0		0	
Diptera						
Athericidae						
<i>Atherix</i> sp.	22	(4.37)	7	(2.46)	17	(3.29)
Chironomidae	78	(15.51)	116	(40.70)	6	(1.16)
<i>Chironomus</i> sp.	0		7		0	
<i>Cricotopus</i> sp.	7		15		0	

Continued...

Table 6. Continued.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
<i>Eukiefferiella</i> sp.	0		7		0	
<i>Micropsectra</i> sp.	4		0		0	
<i>Monodiamesa</i> sp.	0		7		0	
<i>Nanocladius</i> sp.	0		4		0	
<i>Odontomesa</i> sp.	0		26		0	
<i>Orthocladius</i> sp.	41		4		0	
<i>Paracladopelma</i> sp.	0		15		0	
<i>Parakiefferiella</i> sp.	0		4		0	
<i>Paratrichocladius</i> sp.	0		4		0	
<i>Polypedilum fallax</i> gr.	11		0		0	
<i>Polypedilum (Pentapedilum)</i> sp.	0		4		0	
<i>Stictochironomus</i> sp.	0		11		6	
<i>Tanytarsus</i> sp.	0		15		0	
<i>Zavrelia</i> sp.	0		4		0	

Continued...

Table 7. Density and community composition of benthic macroinvertebrates from Hangingstone River, Alberta, Station Number Eight, June to October 1978.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
Oligochaeta	0		11	(1.54)	22	(2.04)
Nematoda	4	(0.41)	0		11	(1.02)
Ephemeroptera	796	(82.15)	48	(6.74)	174	(16.17)
<i>Ameletus</i> sp.	0		0		4	
<i>Baetis</i> sp.	692		48		66	
<i>Cinygmula</i> sp.	52		0		0	
<i>Epeorus (Iron)</i> sp.	4		0		0	
<i>Ephemerella</i> sp.	0		0		26	
<i>Ephemerella (Drunella) spinifera</i>	22		0		15	
<i>Ephemerella (Ephemerella) inermis</i>	26		0		0	
<i>Heptagenia</i> sp.	0		0		44	
<i>Rhithrogena</i> sp.	0		0		19	

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Continued...

Table 7. Continued.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
Plecoptera	15	(1.55)	145	(20.37)	280	(26.02)
<i>Alloperla</i> or <i>Hastaperla</i> sp.	11		63		85	
<i>Arcynopteryx</i> sp.	0		26		11	
<i>Capnia</i> or <i>Eucapnopsis</i> sp.	0		0		11	
<i>Claassenia sabulosa</i>	0		0		4	
<i>Leuctra</i> sp.	0		0		7	
<i>Nemoura (Zapada) cinctipes</i>	4		44		133	
<i>Pteronarcella</i> sp.	0		4		7	
<i>Pteronarcella regularis</i>	0		4		0	
<i>Taeniopteryx</i> sp.	0		4		22	
Trichoptera	37	(3.82)	222	(31.18)	322	(29.93)
<i>Arctopsyche</i> sp.	0		4		0	
<i>Brachycentrus</i> sp.	26		52		170	
<i>Glossosoma</i> sp.	11		56		122	

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Continued...

Table 7. Continued.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
<i>Hydropsyche</i> sp. 1	0		81		0	
<i>Hydropsyche</i> sp. 2	0		7		4	
<i>Hydropsyche</i> sp. 3	0		11		0	
<i>Hydropsyche</i> sp. 4	0		11		22	
<i>Psychomyia flavida</i>	0		0		4	
Hemiptera						
Corixidae						
<i>Sigara washingtonensis</i>	4	(0.41)	0		0	
Coleoptera						
Elmidae						
<i>Dubiraphia</i> sp.	0		4	(0.56)	4	(0.37)
Diptera						
Athericidae						
<i>Atherix</i> sp.	22	(2.27)	33	(4.63)	52	(4.83)

Continued...

Table 7. Continued.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
Chironomidae	46	(4.75)	166	(23.31)	111	(10.32)
<i>Brillia</i> sp.	0		0		4	
<i>Cricotopus</i> sp.	15		89		0	
<i>Diamesa</i> (s.s.) sp.	0		0		7	
<i>Eukiefferiella</i> sp.	0		37		0	
<i>Micropsectra</i> sp.	4		0		0	
<i>Orthocladus</i> sp. 1	4		0		0	
<i>Orthocladus</i> sp. 2	4		0		74	
<i>Parametriocnemus</i> sp.	0		11		0	
<i>Polypedilum</i> (s.s.) <i>fallax</i> gr.	15		0		0	
<i>Potthastia</i> sp.	0		0		7	
<i>Pseudodiamesa</i> sp.	4		7		4	
<i>Tanytarsus</i> sp.	0		15		15	
<i>Thienemanniella</i> sp.	0		7		0	

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Continued...

Table 7. Continued.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
Empididae	30	(3.10)	7	(0.98)	22	(2.04)
<i>Chelifera</i> sp.	19		7		7	
<i>Hemerodromia</i> sp.	11		0		0	
<i>Rhaphium</i> sp.	0		0		15	
Muscidae						
<i>Limnophora</i> sp.	0		4	(0.56)	0	
Simuliidae						
<i>Simulium</i> sp.			4	(0.56)	48	(4.46)
Tipulidae	15	(1.55)	64	(8.99)	26	(2.42)
<i>Antocha</i> sp.	11		30		7	
<i>Dicranota</i> sp.	4		15		15	
<i>Limnophila</i> sp.	0		19		4	
Hydracarina	0		4	(0.56)	4	(0.37)
Total number of Taxa	22		30		35	

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Continued...

Table 7. Concluded.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
Total number of organisms/m ²	969		712		1076	
Species Diversity (\bar{d})	1.40		3.10		2.90	
Equitability (e)	0.40		0.40		0.30	
Biovolume (cc/m ²)	5.20		3.0		4.10	

Table 8. Density and community composition of benthic macroinvertebrates from Hangingstone River, Alberta, Station Number Nine, June to October 1978.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
Oligochaeta	0		0		67	(5.94)
Hirudinea						
<i>Dina parva</i>	0		4	(2.00)	0	
Ephemeroptera	122	(84.72)	7	(3.50)	89	(7.90)
<i>Baetis</i> sp.	78		0		39	
<i>Centroptilum</i> sp.	0		7		0	
<i>Cinygmula</i> sp.	22		0		0	
<i>Ephemerella</i> sp.	0		0		11	
<i>Ephemerella inermis</i>	22		0		0	
Heptagenidae sp.	0		0		39	
Plecoptera					12	(1.06)
<i>Alloperla</i> or <i>Hastaperla</i> sp.	22	(15.28)	0		6	
<i>Pteronarcella</i> sp.	0		0		6	

Continued...

Table 8. Continued.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
Trichoptera			4	(2.00)	779	(69.12)
<i>Apatania</i> sp.	0		0		34	
<i>Arctopsyche</i> sp.	0		0		6	
<i>Brachycentrus</i> sp.	0		0		325	
<i>Glossosoma</i> sp.	0		0		414	
Hydropsychidae sp.	0		4		0	
Diptera						
Ceratopogonidae						
<i>Culicoides</i> sp.	0		0		6	(0.53)
Chironomidae			163	(81.50)	11	(0.98)
<i>Cricotopus</i> sp.	0		11		0	
<i>Monodiamesa</i> sp.	0		4		0	
<i>Nanocladius</i> sp.	0		11		0	
<i>Odontomesa</i> sp.	0		4		0	
<i>Paracladopelma</i> sp.	0		33		0	

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Continued...

Table 8. Continued.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
<i>Parakiefferiella</i> sp.	0		33		0	
<i>Stictochironomus</i> sp.	0		4		11	
<i>Tanytarsus</i> sp.	0		44		0	
<i>Thienemannimyia</i> gr.	0		4		0	
<i>Zavrelia</i> sp.	0		15		0	
Empididae					62	(5.50)
<i>Chelifera</i> sp.	0		0		6	
<i>Hemerodromia</i> sp.	0		0		6	
<i>Rhaphium</i> sp.	0		0		50	
Muscidae						
<i>Lispe</i> sp.	0		0		6	(0.53)
Tipulidae			22	(11.00)	95	(8.43)
<i>Dicranota</i> sp.	0		11		67	
<i>Limnophila</i> sp.	0		11		11	

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Continued...

Table 8. Concluded.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
<i>Ormosia</i> sp.	0		0		11	
<i>Tipula</i> sp.	0		0		6	
Total number of Taxa	4		15		20	
Total number of organisms/m ²	144		200		1127	
Species Diversity (\bar{d})	1.20		2.60		1.90	
Equitability (e)	0.80		0.40		0.30	
Biovolume (cc /m ²)	1.10		0.10		5.60	

Table 9. Continued.

Taxon	August		October	
	No/m ²	%	No/m ²	%
Cladocera				
<i>Daphnia pulex</i> gr.	0		157	(2.84)
Ephemeroptera	1858	(25.54)	2207	(39.95)
<i>Ameletus</i> sp.	15		28	
<i>Baetis</i> sp.	636		84	
<i>Ephemerella spinifera</i>	4		6	
<i>Heptagenia</i> sp.	19		0	
<i>Leptophlebia</i> sp.	0		1921	
<i>Paraleptophlebia</i> sp.	107		0	
<i>Pseudocloeon</i> sp. 1	7		0	
<i>Stenonema</i> sp.	70		168	
Plecoptera	67	(1.79)		
<i>Alloperla</i> or <i>Hastaperla</i> sp.	4		146	(2.64)
<i>Arcynopteryx</i> sp.	52		28	

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Continued...

Table 9. Continued.

Taxon	August		October	
	No/m ²	%	No/m ²	%
<i>Nemoura (Zapada) cinctipes</i>	11		118	
Trichoptera	1023	(30.46)	470	(8.51)
<i>Brachycentrus</i> sp.	100		39	
<i>Cheumatopsyche</i> sp.	437		162	
<i>Glossosoma</i> sp.	19		11	
<i>Hesperophylax</i> sp.	0		6	
<i>Hydropsyche</i> sp. 1	52		73	
<i>Hydropsyche</i> sp. 2	11		0	
<i>Hydropsyche</i> sp. 3	292		67	
<i>Hydropsyche</i> sp. 4	15		0	
<i>Lepidostoma</i> sp.	78		39	
<i>Oecetis</i> sp.	4		50	
<i>Polycentropus</i> sp.	15		6	
<i>Psychoglypha</i> sp.	0		17	

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Continued...

Table 9. Continued.

Taxon	August		October	
	No/m ²	%	No/m ²	%
Hemiptera				
Corixidae				
<i>Sigara</i> sp.	0		6	(0.11)
Coleoptera				
Dytiscidae				
<i>Agabus</i> sp.	0		6	(0.11)
Elmidae				
<i>Optioservus</i> sp.	167	(4.97)	22	(0.40)
Diptera				
Chaoboridae				
<i>Chaoborus</i> sp.	0		17	(3.1)
Chironomidae				

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Continued...

Table 9. Continued.

Taxon	August		October		
	No/m ²	%	No/m ²	%	
<i>Cladotanytarsus</i> sp.	15		0		
<i>Cricotopus</i> sp.	59		6		
<i>Diamesa</i> (s.s.)	0		426		
<i>Eukiefferiella</i> sp. 1	204		11		
<i>Eukiefferiella</i> sp. 2	130		0		40
<i>Metriocnemus</i> sp.	0		11		
<i>Micropsectra</i> sp.	15		34		
<i>Orthocladius</i> sp.	4		336		
<i>Paracladopelma</i> sp.	4		0		
<i>Parametriocnemus</i> sp.	41		0		
<i>Polypedilum fallax</i> gr.	19		0		
<i>Stictochironomus</i> sp.	4		11		
<i>Synorthocladius</i> sp.	15		6		

Continued...

Table 9. Continued.

Taxon	August		October	
	No/m ²	%	No/m ²	%
<i>Thienemannimyia</i> gr.	215		386	
<i>Thienemanniella</i> sp.	30		11	
Empididae				
<i>Hemerodromia</i> sp.			6	(0.11)
Simuliidae				
<i>Simulium</i> sp.	185	(5.51)	1075	(19.46)
Tipulidae				
<i>Dicranota</i> sp.	4	(0.12)	17	(0.31)
Hydracarina	7			
Mollusca	148	(4.41)	112	(2.03)
<i>Physa</i> sp.	4		22	
<i>Pisidium</i> sp.	122		62	
<i>Promenetus</i> sp.	0		6	
<i>Sphaerium</i> sp.	22		22	

Continued...

Table 9. Concluded.

Taxon	August		October	
	No/m ²	%	No/m ²	%
Total number of Taxa	50		44	
Total number of organisms/m ²	3359		5525	
Species Diversity (\bar{d})	3.0		2.30	
Equitability (e)	0.20		0.20	42
Biovolume (cc /m ²)	6.70		31.10	

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Table 10. Benthic macroinvertebrates of Hangingstone River,
 Alberta, Station Number One, June and August 1978 (kick
 samples).

Taxon	June	August
Oligochaeta	0	25
Ephemeroptera		
<i>Pseudocloeon</i> sp.	0	2
<i>Baetis</i> sp.	2	6
<i>Ephemerella</i> sp.	0	1
<i>Ephemerella (Ephemerella) inermis</i>	2	0
<i>Heptagenia</i> sp.	3	0
<i>Metretopodidae</i> sp.	1	0
Odonata		
<i>Ophiogomphus</i> sp.	1	0
<i>Gomphidae</i> sp.		
Trichoptera		
<i>Arctopsyche</i> sp.	0	1
Hemiptera		
Corixidae		
<i>Sigara</i> sp.	0	1
Diptera		
Chironomidae		
<i>Ablabesmyia</i> sp.	0	3
<i>Procladius</i> sp.	0	3
<i>Thienemannemyia</i> gr.	0	6
<i>Brillia</i> sp.	0	2
<i>Polypedilum fallax</i> gr.	0	1
<i>Phaenopsectra (Tribelos)</i> sp.	0	1
<i>Cricotopus</i> sp.	0	2

Continued...

Table 10. Concluded.

Taxon	June	August
<i>Tanytarsus</i> sp.	0	1
<i>Demicryptochironomus</i> sp.	0	1
Tipulidae		
<i>Tipula</i> sp.	0	1
<i>Hexatoma</i> sp.	0	1
Athericidae		
<i>Atherix</i> sp.	1	7

Table 11. Benthic macroinvertebrates of Hangingstone River,
Alberta, Station Number Two, June to October 1978 (kick
samples).

Taxon	June	August	October
Ephemeroptera			
<i>Rhithrogena</i> sp.	7	1	2
<i>Ephemerella</i> (<i>Ephemerella</i>) <i>inermis</i>	35	0	3
<i>Baetis</i> sp.	21	25	0
<i>Pseudocloeon</i> sp. 1	5	0	0
<i>Pseudocloeon</i> sp. 2	2	0	0
<i>Heptagenia</i> sp.	2	9	3
<i>Ameletus</i> sp.	0	4	6
Odonata			
<i>Ophiogomphus</i> sp.	0	6	1
Plecoptera			
<i>Alloperla</i> or <i>Hastaperla</i> sp.	0	1	0
<i>Arcynopteryx</i> sp.	0	3	5
<i>Pteronarcys</i> (<i>Pteronarcys</i>) <i>dorsata</i>	0	1	2
<i>Claasenia</i> sp.	0	0	1
<i>Isoperla</i> sp.	0	0	2
Trichoptera			
<i>Arctopsyche</i> sp.	0	2	0
<i>Brachycentrus</i> sp.	0	19	12
<i>Cheumatopsyche</i> sp.	0	2	0
<i>Glossosoma</i> sp.	0	0	1
<i>Hydropsyche</i> sp. 1	0	1	2
<i>Hydropsyche</i> sp. 2	0	5	2
<i>Lepidostoma</i> sp.	0	1	4
<i>Onocosmoecus</i> sp.	0	0	1
<i>Psychomyia flavida</i>	0	5	0
<i>Hydropsyche</i> sp. 4	0	13	0

Continued...

Table 11. Concluded.

Taxon	June	August	October
<hr/>			
Diptera			
Athericidae			
<i>Atherix</i> sp.	1	0	1
Chironomidae			
<i>Eukiefferiella</i> sp.	1	0	0
<i>Polypedilum</i> sp.	2	0	0
<i>Thienemannimyia</i> gr.	1	0	0
Empididae			
<i>Hemerodromia</i> sp.	1	0	0
Tipulidae			
<i>Limnophila</i> sp.	0	0	0

Table 12. Benthic macroinvertebrates of Hangingstone River,
 Alberta, Station Number Three, June to October 1978
 (kick samples).

Taxon	June	August	October
Oligochaeta	3	2	0
Ephemeroptera			
<i>Baetis</i> sp.	17	28	1
<i>Brachycercus</i> sp.	5	0	0
<i>Caenis</i> sp.	0	1	0
<i>Centroptilum</i> sp.	0	27	0
<i>Ephemerella</i> (<i>Dannella</i>) <i>simplex</i>	4	0	0
<i>Ephemerella</i> (<i>Ephemerella</i>) <i>inermis</i>	5	0	1
<i>Heptagenia</i> sp.	11	12	0
<i>Metretopus borealis</i>	2	0	0
<i>Pseudocloeon</i> sp. 1	13	1	0
<i>Pseudocloeon</i> sp. 2	5	0	0
<i>Rhithrogena</i> sp.	0	3	11
Odonata			
<i>Somatochlora minor</i>	0	3	0
Plecoptera			
<i>Arcynopteryx</i> sp.	0	3	0
<i>Claasenia</i> sp.	0	10	1
<i>Isoperla</i> sp.	0	0	1
<i>Pteronarcella regularis</i>	0	1	0
<i>Pteronarcys</i> (<i>Pteronarcys</i>) <i>dorsata</i>	5	32	3
<i>Taeniopteryx</i> sp.	0	0	1
Trichoptera			
<i>Brachycentrus</i> sp.	0	0	1
<i>Cheumatopsyche</i> sp.	0	3	0
<i>Glossosoma</i> sp.	0	0	3
<i>Hydropsyche</i> sp. 2	0	9	0

Continued...

Table 12. Concluded.

Taxon	June	August	October
<i>Hydropsyche</i> sp. 3	0	1	0
<i>Hydropsyche</i> sp. 4	0	4	0
<i>Psychomyia</i> sp.	0	1	1
Diptera			
Chironomidae			
<i>Brillia</i> sp.	1	1	0
<i>Orthocladius</i> sp.	1	0	0
<i>Paracladopelma</i> sp.	10	0	0
<i>Paralauterborniella</i> sp.	0	1	0
<i>Polypedilum fallax</i> gr.	8	0	0
<i>Polypedilum (Pentapedilum)</i> sp.	1	0	0
<i>Procladius</i> sp.	0	1	0
<i>Thienemannimyia</i> gr.	3	2	0
<i>Zavrelia</i> sp.	1	0	0
Empididae			
<i>Hemerodromia</i> sp.	4	1	0
Simuliidae			
	2	0	0
Tabanidae			
<i>Chrysops</i> sp.	2	0	0
Tipulidae			
<i>Ormosia</i> sp.	1	0	0

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Table 13. Benthic macroinvertebrates of Hangingstone River,
 Alberta, Station Number Four, June to October 1978
 (kick samples).

Taxon	June	August	October
Oligochaeta	1	0	0
Ephemeroptera			
<i>Ameletus</i> sp.	0	0	4
<i>Baetis</i> sp.	12	16	3
<i>Centroptilum</i> sp.	0	1	0
<i>Epeorus</i> (Iron) sp.	1	0	0
<i>Ephemerella</i> (<i>Ephemerella</i>) <i>inermis</i>	6	1	7
<i>Heptagenia</i> sp.	4	4	5
<i>Pseudocloeon</i> sp. 1	2	0	0
<i>Pseudocloeon</i> sp. 2	0	3	0
<i>Rhithrogena</i> sp.	0	2	11
<i>Stenonema</i> sp.	0	0	1
Odonata			
<i>Somatochlora minor</i>	0	2	0
Plecoptera			
<i>Alloperla</i> or <i>Hastaperla</i> sp.	0	0	1
<i>Arcynopteryx</i> sp.	0	0	2
<i>Arcynopteryx</i> (<i>Megarcys</i>) sp.	0	2	0
<i>Isoperla</i> sp.	0	0	2
<i>Nemoura</i> (<i>Zapada</i>) <i>cinctipes</i>	0	0	5
<i>Pteronarcella regularis</i>	0	0	2
<i>Pteronarcys</i> sp.	0	5	0
<i>Pteronarcys</i> (<i>Pteronarcys</i>) <i>dorsata</i>	2	0	18
<i>Taeniopteryx</i> sp.	0	0	4
Trichoptera			
<i>Arctopsyche</i> sp.	0	1	0
<i>Brachycentrus</i> sp.	0	4	4

Continued...

Table 13. Concluded.

Taxon	June	August	October
<i>Glossosoma</i> sp.	0	1	0
<i>Hydropsyche</i> sp. 1	0	0	1
Diptera			
Athericidae			
<i>Atherix</i> sp.	0	8	11
Chironomidae			
<i>Cladotanytarsus</i> sp.	0	4	0
<i>Cricotopus</i> sp.	0	1	0
<i>Eukiefferiella</i> sp.	0	1	0
Simuliidae			
<i>Simulium</i> sp.	0	0	2
Tabanidae			
<i>Chrysops</i> sp.	0	2	1
Tipulidae			
<i>Limnophila</i> sp.	0	1	0

Table 14. Benthic macroinvertebrates⁵¹ of Hangingstone River,
 Alberta, Station Number Five, June to October, 1978 (kick
 samples).

Taxon	June	August	October
Oligochaeta	0	2	2
Amphipoda			
<i>Hyalella azteca</i>	0	1	0
Ephemeroptera			
<i>Ameletus</i> sp.	0	2	0
<i>Baetis</i> sp.	9	4	1
<i>Centroptilum</i> sp.	0	4	0
<i>Cinygmula</i> sp.	4	0	0
<i>Epeorus (Iron)</i> sp.	1	0	0
<i>Ephemerella (Ephemerella) aurivillii</i>	0	1	0
<i>Ephemerella (Ephemerella) inermis</i>	8	0	2
<i>Heptagenia</i> sp.	0	3	0
<i>Pseudocloeon</i> sp. 1	6	4	0
<i>Rhithrogena</i> sp.	0	3	0
Odonata			
<i>Ophiogomphus</i> sp.	0	1	0
Plecoptera			
<i>Alloperla</i> or <i>Hastaperla</i> sp.	0	0	1
<i>Arcynopteryx</i> sp.	0	4	1
<i>Pteronarcella regularis</i>	0	3	1
<i>Pteronarcys (Pteronarcys) dorsata</i>	0	6	4
<i>Taeniopteryx</i> sp.	0	0	1
Trichoptera			
<i>Arctopsyche</i> sp.	0	4	0
<i>Brachycentrus</i> sp.	0	5	6
<i>Cheumatopsyche</i> sp.	0	2	0
<i>Glossosoma</i> sp.	0	1	0

Continued...

Table 14. Concluded.

Taxon	June	August	October
<i>Hydropsyche</i> sp. 1	0	2	0
<i>Hydropsyche</i> sp. 2	0	3	1
<i>Hydropsyche</i> sp. 4	0	4	1
Hemiptera			
Corixidae			
<i>Callicorixa audeni</i>	0	1	0
Gerridae			
<i>Gerris</i> sp.	0	3	0
Mesoveliidae			
<i>Mesovelia mulsanti</i>	0	1	0
Diptera			
Athericidae			
<i>Atherix</i> sp.	0	4	0
Anthomyiidae sp.	0	1	0
Chironomidae			
<i>Chironomus</i> sp.	0	1	0
<i>Monodiamesa</i> sp.	0	0	1
<i>Phaenopsechra</i> sp.	0	0	1
<i>Stictochironomus</i> sp.	0	0	1
<i>Tanytarsus</i> sp.	0	2	0
Simuliidae			
<i>Simulium</i> sp.	1	0	0

Table 15. Benthic macroinvertebrates of Hangingstone River,
 Alberta, Station Number Six, June to October 1978 (kick
 samples).

Taxon	June	August	October
Ephemeroptera			
<i>Ameletus</i> sp.	0	0	4
<i>Baetis</i> sp.	21	11	1
<i>Cinygmula</i> sp.	6	0	0
<i>Ephemerella</i> (<i>Drunella</i>) <i>spinifera</i>	3	1	16
<i>Ephemerella</i> (<i>Ephemerella</i>) <i>inermis</i>	10	1	3
<i>Heptagenia</i> sp.	2	0	0
<i>Pseudocloeon</i> sp. 1	5	0	0
<i>Rhithrogena</i> sp.	3	0	0
Plecoptera			
<i>Alloperla</i> or <i>Hastaperla</i> sp.	0	0	6
<i>Arcynopteryx</i> sp.	0	1	7
<i>Nemoura</i> (<i>Zapada</i>) <i>cinctipes</i>	0	0	28
<i>Pteronarcella</i> <i>regularis</i>	0	3	15
<i>Pteronarcys</i> <i>dorsata</i>	0	1	1
<i>Taeniopteryx</i> sp.	0	0	21
Trichoptera			
<i>Brachycentrus</i> sp.	2	18	90
<i>Glossosoma</i> sp.	0	2	5
<i>Hydropsyche</i> sp. 4	0	1	4
<i>Lepidostoma</i> sp.	0	0	2
<i>Onocosmoecus</i> sp.	1	0	11
Hemiptera			
<i>Hesperocorixa</i> <i>atopodonta</i>	0	0	1
<i>Sigara</i> <i>solensis</i>	0	0	3
<i>Sigara</i> sp.	0	0	1

Continued...

Table 15. Concluded.

Taxon	June	August	October
Coleoptera			
<i>Gyrinus</i> sp.	0	0	1
Diptera			
Athericidae			
<i>Atherix</i> sp.	1	21	4
Chironomidae			
<i>Cladotanytarsus</i> sp.	0	1	0
<i>Cricotopus</i> sp.	1	1	0
<i>Eukiefferiella</i> sp.	0	1	0
<i>Monodiamesa</i> sp.	0	1	0
<i>Orthocladius</i> sp.	2	0	1
<i>Paracladopelma</i> sp.	0	1	0
<i>Tanytarsus</i> sp.	0	1	0
Cyclorrhapha sp.	0	0	4
Psychodidae			
<i>Pericoma</i> sp.	0	0	1
Tabanidae			
<i>Chrysops</i> sp.	0	1	0
Tipulidae			
<i>Dicranota</i> sp.	0	1	4
<i>Tipula</i> sp.	0	1	0

Table 16. Benthic macroinvertebrates of Hangingstone River,
 Alberta, Station Number Eight, June to October 1978
 (kick samples).

Taxon	June	August	October
Oligochaeta	0	4	2
Ephemeroptera			
<i>Ameletus</i> sp.	0	2	4
<i>Baetis</i> sp.	51	15	0
<i>Centroptilum</i> sp.	0	2	0
<i>Cinygmula</i> sp.	1	0	3
<i>Epeorus</i> (<i>Iron</i>) sp.	1	0	0
<i>Ephemerella</i> (<i>Drunella</i>) <i>spinifera</i>	6	0	1
<i>Ephemerella</i> (<i>Ephemerella</i>) <i>inermis</i>	11	1	0
<i>Paraleptophlebia</i> sp.	0	4	0
Plecoptera			
<i>Alloperla</i> or <i>Hastaperla</i> sp.	0	2	1
<i>Arcynopteryx</i> sp.	0	15	2
<i>Nemoura</i> (<i>Zapada</i>) <i>cinctipes</i>	0	1	4
<i>Pteronarcella</i> <i>regularis</i>	0	1	2
<i>Taeniopteryx</i> sp.	0	0	2
Trichoptera			
<i>Arctopsyche</i> sp.	0	0	2
<i>Brachycentrus</i> sp.	38	1	12
<i>Cheumatopsyche</i> sp.	0	0	1
<i>Hydropsyche</i> sp. 1	0	0	1
<i>Hydropsyche</i> sp. 4	0	0	1
<i>Glossosoma</i> sp.	0	2	27
Hemiptera			
<i>Hesperocorixa</i> <i>atopodonta</i>	0	0	1

Continued...

Table 16. Concluded.

Taxon	June	August	October
Diptera			
Athericidae			
<i>Atherix</i> sp.	1	4	13
Chironomidae			
<i>Micropsectra</i> sp.	0	0	8
<i>Monodiamesa</i> sp.	0	0	1
<i>Odontomesa</i> sp.	1	0	0
<i>Orthocladus</i> sp.	0	1	0
<i>Parametriocnemus</i> sp.	1	0	0
<i>Polypedilum</i> sp.	0	0	3
<i>Polypedilum (fallax)</i> gr.	1	0	0
<i>Potthastia</i> sp.	0	0	1
<i>Tanytarsus</i> sp.	0	2	2
<i>Thienemannimyia</i> gr.	0	0	1
Tanypodinae sp.	2	0	0
Empidae			
<i>Chelifera</i> sp.	1	0	4
Simuliidae			
<i>Simulium</i> sp.	6	0	1
Tabanidae			
<i>Chrysops</i> sp.	0	1	0
Tipulidae			
<i>Antocha</i> sp.	0	0	2
<i>Dicranota</i> sp.	1	0	2

Table 17. Benthic macroinvertebrates of Hangingstone River,
 Alberta, Station Number Nine, June and August 1978
 (kick samples).

Taxon	June	August
Oligochaeta	2	0
Ephemeroptera		
<i>Baetis</i> sp.	29	0
<i>Cinygmula</i> sp.	4	0
<i>Epeorus (Iron)</i> sp.	1	0
<i>Ephemerella (Ephemerella) inermis</i>	3	0
<i>Ephemerella (Drunella) spinifera</i>	2	0
Trichoptera		
<i>Brachycentrus</i> sp.	4	0
<i>Glossosoma</i> sp.	1	0
Coleoptera		
Elmidae sp.	0	1
Diptera		
Athericidae		
<i>Atherix</i> sp.	2	0
Chironomidae		
<i>Heterotrissocladius marcidus</i> gr.	0	1
<i>Paracladopelma</i> sp.	1	0
<i>Tanytarsus</i> sp.	0	1
<i>Thienemannimyia</i> sp.	1	2
Simuliidae		
<i>Simulium</i> sp.	3	0
Tabanidae		
<i>Chrysops</i> sp.	0	3

Continued...

Table 17. Concluded.

Taxon	June	August
Tipulidae		
<i>Antocha</i> sp.	1	0
<i>Dicranota</i> sp.	0	2
<i>Limnophila</i> sp.	1	1

Table 18. Density and community structure of benthic macroinvertebrates from Gregoire Lake, Alberta, August 1978.

Taxon Zone	Number/m ² (%)				
	Station 1 (Profundal)	Station 2	Station 3	Station 4	Station 5 (Littoral)
Oligochaeta	301(12.73)	129(10.34)	129(12.50)	0	215(3.65)
Amphipoda					
<i>Hyalella azteca</i>	0	0	0	86(20.00)	774(13.14)
Ephemeroptera		86(6.90)	43(4.17)	43(10.00)	
<i>Caenis</i> sp.	0	0	0	43	0
<i>Ephemera</i> sp.	0	43	43	0	0
<i>Ephemerella (Drunella) spinifera</i>	0	43	0	0	0
Trichoptera			43(4.17)	129(30.00)	172(2.92)
<i>Agrypnia</i> sp.	0	0	0	0	86
<i>Decetis</i> sp.	0	0	0	0	43
<i>Polycentropus</i> sp.	0	0	0	129	43
Leptoceridae	0	0	43	0	0

Continued...

Table 18. Continued.

Taxon Zone	Number/m ² (%)				
	Station 1 (Profundal)	Station 2	Station 3	Station 4	Station 5 (Littoral)
Diptera					
Chironomidae	1849 (78.18)	946 (75.86)	688 (66.67)	172 (40.00)	4687 (79.56)
<i>Chironomus</i> sp.	0	43	172	0	0
<i>Cricotopus</i> sp.	0	0	0	0	43
<i>Cryptochironomus</i> sp.	0	0	43	0	172
<i>Demicryptochironomus</i> sp.	0	0	43	0	0
<i>Dicrotendipes</i> sp.	0	43	0	0	0
<i>Microtendipes</i> sp. 1	0	43	43	172	0
<i>Phaenopsectra</i> sp.	0	0	0	0	43
<i>Polypedilum (Polypedilum)</i> sp.	946	129	86	0	0
<i>Potthastia</i> sp.	0	43	0	0	43
<i>Procladius</i> sp.	430	602	258	0	0
<i>Stictochironomus</i> sp.	0	0	43	0	4386
<i>Tanytarsus</i> sp.	473	43	0	0	0

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Continued...

Table 18. Concluded.

Taxon Zone	Number/m ² (%)				
	Station 1 (Profundal)	Station 2	Station 3	Station 4	Station 5 (Littoral)
Mollusca					
<i>Physa</i> sp.	0	0	0	0	43(0.73)
<i>Pisidium</i> sp.	215(9.09)	86(6.90)	129(12.50)	0	0
Total number of taxa	5	11	11	4	11
Total number of organisms/m ²	2365	1247	1032	430	5891
Species Diversity (\bar{d})	2.13	2.62	3.13	1.85	1.43
Equitability (e)	1.0	0.81	1.09	1.0	0.36
Biovolume (c.c./m ²)	4.35	4.35	4.35	4.35	8.70

Table 19. Density and community structure of benthic macroinvertebrates from Gregoire River, Alberta, August 1978.

Taxon	Number/m ² (%)			Total Number Collected From Kick Samples		
	Station 1	Station 3	Station 4	Station 1	Station 3	Station 4
Oligochaeta	22(7.05)	0	17(3.31)	1	0	20
Nematoda	17(5.45)	0	0	1	0	0
Hirudinea						
<i>Helobdella stagnalis</i>	0	0	0	0	0	10
Crustacea						
<i>Simocephalus</i> sp.	0	0	0	0	0	8
Amphipoda						
<i>Hyalella azteca</i>	0	0	11(2.14)	0	0	152
Ephemeroptera	125(40.06)	22(4.53)	12(2.34)			
<i>Ameletus</i> sp.	17	0	0	1	0	0
<i>Baetis</i> sp.	62	0	0	5	8	5
<i>Brachycercus</i> sp.	0	22	0	0	0	0

Continued...

Table 19. Continued.

Taxon	Number/m ² (%)			Total Number Collected From Kick Samples		
	Station 1	Station 3	Station 4	Station 1	Station 3	Station 4
<i>Caenis</i> sp.	6	0	6	0	2	0
<i>Callibaetis</i> sp.	0	0	0	0	0	2
<i>Centroptilum</i> sp.	0	0	0	47	67	1
<i>Ephemerella</i> (<i>Ephemerella</i>) <i>inermis</i>	6	0	0	1	0	0
<i>Heptagenia</i> sp.	11	0	0	0		
<i>Metretopus</i> sp.	0	0	0	0	10	0
<i>Paraleptophlebia</i> sp.	6	0	0	0	1	5
<i>Pseudocloeon</i> sp. 1	6	0	0	1	0	0
<i>Rhithrogena</i> sp.	11	0	0	0	0	0
<i>Stenonema</i> sp.	0	0	6	0	1	0
<i>Tricorythodes</i> sp.	0	0	0	0	2	0

Continued...

Table 19. Continued.

Taxon	Number/m ² (%)			Total Number Collected From Kick Samples		
	Station 1	Station 3	Station 4	Station 1	Station 3	Station 4
Odonata						
<i>Aeshna</i> sp.	0	0	0	0	0	1
<i>Ophiogomphus</i> sp.	0	0	0	0	5	0
Plecoptera						
<i>Alloperla</i> or <i>Hastaperla</i> sp.	68(21.79)	22(4.53)	12(2.34)			
<i>Arcynopteryx</i> sp.	6	22	0	0	0	0
<i>Arcynopteryx</i> sp.	62	0	6	2	0	0
<i>Capnia</i> or <i>Eucapnopsis</i> sp.	0	0	6	0	0	0
<i>Nemoura</i> (<i>Amphinemura</i>) sp.	0	0	0	1	0	0
<i>Pteronarcella regularis</i>	0	0	0	0	1	0
<i>Pteronarcys dorsata</i>	0	0	0	0	2	0
Megaloptera						
<i>Sialis</i> sp.	0	0	0	0	1	2

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Continued...

Table 19. Continued.

Taxon	Number/m ² (%)			Total Number Collected From Kick Samples		
	Station 1	Station 3	Station 4	Station 1	Station 3	Station 4
Trichoptera	34 (10.90)	66 (13.58)	410 (79.92)			
<i>Arctopsyche</i> sp.	0	0	11	0	0	0
<i>Brachycentrus</i> sp.	0	0	325	2	1	76
<i>Cheumatopsyche</i> sp.	0	22	28	0	0	0
<i>Glossosoma</i> sp.	0	22	11	0	0	1
<i>Glyphopsyche irrorata</i>	0	0	0	0	0	1
<i>Hydropsyche</i> sp. 1	0	0	17	0	0	0
<i>Hydropsyche</i> sp. 2	6	22	0	0	0	0
<i>Hydropsyche</i> sp. 3	0	0	6	2	0	0
<i>Hydropsyche</i> sp. 4	17	0	6	0	0	0
<i>Lepidostoma</i> sp.	0	0	0	0	1	1
<i>Limnephilus</i> sp.	0	0	0	0	0	1
<i>Phryganea</i> sp.	0	0	0	0	0	1
<i>Psychoglypha</i> sp.	0	0	0	0	1	0

Continued...

Table 19. Continued.

Taxon	Number/m ² (%)			Total Number Collected From Kick Samples		
	Station 1	Station 3	Station 4	Station 1	Station 3	Station 4
<i>Psychomyia</i> sp.	11	0	6	0	0	1
<i>Ptilostomis</i> sp.	0	0	0	0	2	2
Hemiptera						
Corixidae						
<i>Sigara</i> sp.	0	0	0	6	136	0
<i>Sigara trilineata</i>	0	0	0	0	10	1
<i>Sigara washingtonensis</i>	0	0	0	0	59	7
Gerridae						
<i>Gerris</i> sp.	0	0	0	0	7	0
Coleoptera						
Dytiscidae						
<i>Deronectes</i> sp.	0	0	0	0	0	1
<i>Liodessus</i> sp.	0	0	0	0	0	1

Continued...

Table 19. Continued.

Taxon	Number/m ² (%)			Total Number Collected From Kick Samples		
	Station 1	Station 3	Station 4	Station 1	Station 3	Station 4
Elmidae						
<i>Dubiraphia</i> sp.	0	0	0	0	1	1
Diptera						
Athericidae						
<i>Atherix</i> sp.	22(7.05)	0	0	1	0	0
Chironomidae	24(7.69)	243(50.00)	51(9.94)			
<i>Brillia</i> sp.	0	0	0	0	1	0
<i>Chironomus</i> sp.	0	0	0	4	0	0
<i>Cladotanytarsus</i> sp.	0	0	0	0	0	2
<i>Corynoneura</i> sp.	0	0	6	0	0	0
<i>Cricotopus</i> sp. 1	0	0	22	1	0	0
<i>Cricotopus</i> sp. 2	0	0	0	1	0	0
<i>Cryptochironomus</i> sp.	6	22	0	0	0	0
<i>Eukiefferiella</i> sp.	0	0	0	1	0	0

Continued...

Table 19. Continued.

Taxon	Number/m ² (%)			Total Number Collected From Kick Samples		
	Station 1	Station 3	Station 4	Station 1	Station 3	Station 4
<i>Harnischia</i> gr. sp.	0	22	0	0	0	0
<i>Orthocladius</i> sp.	6	22	0	0	0	0
<i>Paracladopelma</i> sp.	0	0	0	3	0	0
<i>Parachironomus</i> sp.	0	0	0	0	0	1
<i>Paralauterborniella</i> sp.	0	22	0	0	0	0
<i>Parametriocnemus</i> sp.	0	0	0	1	0	0
<i>Phaenopsectra</i> sp.	0	0	0	3	0	0
<i>Polypedilum</i> (<i>Polypedilum</i>) sp.	0	0	17	0	0	1
<i>Procladius</i> sp.	0	0	0	0	1	0
<i>Rheocricotopus</i> sp.	6	0	0	1	0	0
<i>Rheotanytarsus</i> sp.	0	44	0	1	0	0
<i>Synorthocladius</i> sp.	0	0	6	0	0	0
<i>Tanytarsus</i> sp.	0	111	0	3	2	6
<i>Thienemannimyia</i> gr. sp.	0	0	0	2	0	4

Continued...

Table 19. Continued.

Taxon	Number/m ² (%)			Total Number Collected From Kick Samples		
	Station 1	Station 3	Station 4	Station 1	Station 3	Station 4
Chironomini	0	0	0	1	0	0
Orthocladiinae	0	0	0	0	0	1
Tanypodinae	6	0	0	3	0	0
Tanytarsini	0	0	0	1	0	0
Tabanidae						
<i>Chrysops</i> sp.	0	22 (4.53)	0	0	5	1
Tipulidae		111 (22.84)				
<i>Antocha</i> sp.	0	0	0	1	0	0
<i>Dicranota</i> sp.	0	0	0	0	0	1
<i>Limnophila</i> sp.	0	111	0	0	1	5
<i>Ormosia</i> sp.	0	0	0	1	0	0
Acarina	0	0	0	0	0	1
Mollusca						
<i>Pisidium</i> sp.	0	0	0	0	1	1

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Continued...

Table 19. Concluded.

Taxon	Number/m ² (%)			Total Number Collected From Kick Samples		
	Station 1	Station 3	Station 4	Station 1	Station 3	Station 4
<i>Phsya</i> sp.	0	0	0	0	2	6
<i>Sphaerium</i> sp.	0	0	0	0	0	1
Total number of taxa	20	13	18			
Total number of organisms/m ²	312	486	513			
Species Diversity (\bar{d})	2.59	2.30	1.67			
Equitability (e)	0.40	0.54	0.21			
Biovolume (cc /m ²)	1.67	4.35	3.89			

Table 20. Density and community structure of benthic macroinvertebrates from Christina River, Alberta, Station Number One, June to October 1978.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
Oligochaeta	0		4	(0.29)	45	(10.98)
Amphipoda						
<i>Hyalella azteca</i>	0		4	(0.29)	0	
Ephemeroptera	30	(56.60)	474	(34.52)	241	(58.78)
<i>Ameletus</i> sp.	0		0		6	
<i>Baetis</i> sp.	0		15		95	
<i>Ephemerella (Ephemerella) inermis</i>	26		0		106	
<i>Heptagenia</i> sp.	4		70		0	
<i>Pseudocloeon</i> sp. 1	0		15		0	
<i>Rhithrogena</i> sp.	0		374		34	
Odonata						
<i>Ophiogomphus</i> sp.	0		4	(0.29)	0	
Plecoptera	8	(15.09)	140	(10.20)	23	(5.61)

Continued...

Table 20. Continued.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
<i>Alloperla</i> or <i>Hastaperla</i> sp.	0		11		0	
<i>Arcynopteryx</i> sp.	0		96		6	
<i>Claasenia</i> sp.	0		33		0	
<i>Isoperla</i> sp.	0		0		17	
Trichoptera			125	(9.10)	50	(12.20) ¹²
<i>Arctopsyche</i> sp.	0		11		0	
<i>Brachycentrus</i> sp.	0		7		28	
<i>Cheumatopsyche</i> sp.	0		41		11	
<i>Hydropsyche</i> sp. 2	0		7		0	
<i>Hydropsyche</i> sp. 3	0		48		11	
<i>Hydropsyche</i> sp. 4	0		7		0	
Hydroptilidae	0		4		0	
Diptera						
Athericidae						
<i>Atherix</i> sp.	0		4	(0.29)	0	

Continued...

Table 20. Continued.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
Chironomidae	15	(28.30)	596	(43.41)	23	(5.61)
<i>Chironomus</i> sp.	0		4		0	
<i>Cricotopus</i> sp.	0		248		0	
<i>Eukiefferiella</i> sp. 1	0		19		0	
<i>Eukiefferiella</i> sp. 2	0		33		0	
<i>Microtendipes</i> sp.	0		7		17	
<i>Nilotanypus</i> sp.	0		11		0	
Orthoclaadiinae	0		7		0	
<i>Orthocladus</i>	0		19		0	
<i>Parametriocnemus</i> sp.	0		7		0	
<i>Polypedilum (s.s.) fallax</i> gr.	0		11		0	
<i>Rheotanytarsus</i> sp.	15		185		0	
Tanypodinae	0		4		6	
<i>Tanytarsus</i> sp.	0		19		0	
<i>Thienemannemyia</i> gr.	0		22		0	

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Continued...

Table 20. Concluded.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
Empididae						
<i>Heimerodromia</i> sp.	4	(7.55)	11	(0.80)	6	(1.46)
Simuliidae						
<i>Simulium</i> sp.	0		0		22	(5.37)
Tipulidae						
<i>Limnophila</i> sp.	0		11	(0.80)	0	
Total number of taxa	5		34		14	
Total number of organisms/m ²	53		1373		410	
Species Diversity (\bar{d})	1.27		2.50		2.17	
Equitability (e)	0.60		0.24		0.43	
Biovolume (cc /m ²)	1.10		2.78		1.67	

Table 21. Density and community structure of benthic macroinvertebrates from Christina River, Alberta, Station Number Two, June to October 1978.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
Oligochaeta	19	(4.99)	11	(0.94)	196	(25.52)
Ephemeroptera	101	(26.51)	112	(9.59)	476	(61.98)
<i>Ameletus</i> sp.	0		7		22	
<i>Baetis</i> sp.	15		19		336	
<i>Ephemerella</i> (<i>Ephemerella</i>) <i>inermis</i>	30		0		45	
<i>Heptagenia</i> sp.	4		56		6	
<i>Pseudocloeon</i> sp. 1	4		0		0	
<i>Rhithrogena</i> sp.	48		0		67	
<i>Stenonema</i> sp.	0		4		0	
<i>Tricrythodes</i> sp.	0		26		0	
Odonata						
<i>Ophiogomphus</i> sp.	4	(1.05)	0		0	
Plecoptera	8	(2.10)	81	(6.93)	61	(7.94)
<i>Alloperla</i> or <i>Hastaperla</i> sp.	0		59		11	

Continued...

Table 21. Continued.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
<i>Arcynopteryx</i> sp.	0		59		11	
<i>Claasenia</i> sp.	4		11		0	
<i>Isoperla</i> sp.	0		11		50	
Trichoptera	19	(4.99)	242	(20.72)	12	(1.56)
<i>Arctopsyche</i> sp.	0		4		0	
<i>Brachycentrus</i> sp.	0		63		0	
<i>Cheumatopsyche</i> sp.	11		41		6	
<i>Hydropsyche</i> sp. 1	4		0		0	
<i>Hydropsyche</i> sp. 2	0		7		0	
<i>Hydropsyche</i> sp. 3	4		89		0	
<i>Hydropsyche</i> sp. 4	0		19		0	
<i>Hydropsyche</i> sp. 5	0		0		6	
Hydroptilidae	0		15		0	
<i>Orthotrichia</i> sp.	0		4		0	

Continued...

Table 21. Continued.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
Diptera			718	(61.00)		
Athericidae						
<i>Atherix</i> sp.	4	(1.05)	22	(1.88)	11	(1.43)
Chironomidae	200	(52.49)	677	(57.96)	12	(1.56)
<i>Cricotopus</i> or <i>Orthocladius</i> sp.	4		44		0	
<i>Chironomus</i> sp.	0		4		6	
<i>Eukiefferiella</i> sp. 1	0		22		0	
<i>Eukiefferiella</i> sp. 2	0		7		0	
<i>Micropsectra</i> sp. 2	0		7		0	
<i>Microtendipes</i> sp. 1	0		33		0	
<i>Microtendipes</i> sp. 2	0		4		0	
<i>Rheotanytarsus</i> sp.	196		448		6	
Tanypodinae	0		4		0	
<i>Thienemannimyia</i> gr. sp.	0		104		0	

Continued...

Table 21. Concluded.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
Empididae						
<i>Hemerodromia</i> sp.	22	(5.77)	0		0	
Tipulidae						
<i>Limnophila</i> sp.	4	(1.05)	19	(1.63)	0	
Mollusca						
<i>Ferrissia</i> sp.	0		4	(0.34)	0	
Total number of taxa	17		30		13	
Total number of organisms/m ²	381		1168		768	
Species Diversity (\bar{d})	1.80		2.43		1.65	
Equitability (e)	0.29		0.25		0.31	
Biovolume (cc/m ²)	1.85		5.92		2.22	

Table 22. Density and community structure of benthic macroinvertebrates from Christina River, Alberta, Station Number Three, June to October 1978.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
Oligochaeta	0		19	(0.90)	22	(1.61)
Nematoda	0		7	(0.33)		
Ephemeroptera	79	(26.24)	156	(7.38)	722	(52.71)
<i>Ameletus</i> sp.	0		4		6	79
<i>Baetis</i> sp.	6		96		235	
<i>Ephemerella (Drunella) spinifera</i>	6		0		0	
<i>Ephemerella (Ephemerella) inermis</i>	39		11		218	
<i>Heptagenia</i> sp.	6		15		56	
<i>Pseudocloeon</i> sp. 1	0		15		0	
<i>Rhithrogena</i> sp.	22		4		207	
<i>Tricorythodes</i> sp.	0		11		0	
Plecoptera	6	(1.99)	56	(2.65)	141	(10.30)
<i>Arcynopteryx</i> sp.	0		33		22	
<i>Capnia</i> or <i>Eucapnopsis</i> sp.	0		0		6	

Continued...

Table 22. Continued.

Taxon	No/m ²		No/m ²		No/m ²	
		%		%		%
<i>Claasenia</i> sp.	0		4		0	
<i>Hastaperla</i> sp.	6		0		6	
<i>Isoperla</i> sp.	0		19		101	
<i>Pteronarcella regularis</i>	0		0		6	
Trichoptera	159	(52.82)	596	(28.23)	343	(25.06) ⁰⁸
<i>Arctopsyche</i> sp.	0		144		0	
<i>Brachycentrus</i> sp.	0		59		39	
<i>Ceraclea</i> sp.	0		0		6	
<i>Cheumatopsyche</i> sp.	123		89		123	
<i>Hydropsyche</i> sp. 1	6		26		6	
<i>Hydropsyche</i> sp. 2	0		0		6	
<i>Hydropsyche</i> sp. 3	6		133		22	
<i>Hydropsyche</i> sp. 4	11		130		0	
<i>Hydropsyche</i> sp. 5	0		0		73	

Continued...

Table 22. Continued.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
<i>Lepidostoma</i> sp.	0		0		56	
<i>Oecetis</i> sp.	6		0		6	
<i>Psychomyia</i> sp.	0		15		0	
<i>Psychopsyche</i> sp.	6		0		6	
Hydropsychidae	1		0		0	
Coleoptera						
Elmidae						
<i>Optioservus</i> sp.	0		7	(0.33)		
Diptera			1270	(60.16)		
Athericidae						
<i>Atherix</i> sp.	6	(1.99)	422	(19.99)		
Chironomidae	34	(11.29)	844	(39.98)	118	(8.62)
<i>Cricotopus</i> or <i>Orthocladius</i> sp.	0		4		6	
<i>Cryptochironomus</i> sp.	0		0		6	
<i>Eukiefferiella</i> sp. 1	6		107		56	

Continued...

Table 22. Continued.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
<i>Eukiefferiella</i> sp. 2	0		41		0	
<i>Microtendipes</i> sp. 1	0		15		0	
<i>Microtendipes</i> sp. 2	0		4		11	
<i>Nilotanytus</i> sp.	0		4		0	
<i>Phaenopsectra (Tribelos)</i> sp.	0		7		0	
<i>Rheotanytarsus</i> sp.	22		585		22	
<i>Thienemannemyia</i> gr. sp.	6		44		11	
<i>Chironomini</i> sp.	0		0		6	
<i>Tanytarsini</i> sp.	0		33		0	
Dolichopodidae	0		0		17	(1.25)
Empididae						
<i>Hemerodromia</i> sp.	17	(5.64)	0		6	(0.44)
Tipulidae						
<i>Limnophila</i> sp.	0		4	(0.18)	0	

Continued...

Table 22. Concluded.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
Total number of taxa	18		32		30	
Total number of organisms/m ²	301		2111		1369	
Species Diversity (\bar{d})	2.10		2.35		2.65	
Equitability (e)	0.38		0.23		0.29	
Biovolume (cc /m ²)	2.76		12.22		5.56	

Table 23. Density and community structure of benthic macroinvertebrates of Christina River, Alberta, Station Number Four, June to October 1978.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
Oligochaeta	0		56	(8.71)	39	(3.27)
Nematoda	0		4	(0.62)	6	(0.50)
Crustacea						
Cladocera						
<i>Daphnia</i> sp.	0		0		6	(0.50)
Ephemeroptera	140	(62.78)	193	(30.02)	1007	(84.34)
<i>Baetis</i> sp.	37		89		823	
<i>Ephemerella</i> (<i>Ephemerella</i>) <i>inermis</i>	11		41		50	
<i>Heptagenia</i> sp.	7		26		0	
<i>Pseudocloeon</i> sp. 1	7		11		28	
<i>Rhithrogena</i> sp.	78		4		106	
<i>Tricorythodes</i> sp.	0		22		0	

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Continued...

Table 23. Continued.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
Plecoptera	11	(4.93)	23	(3.58)	45	(3.77)
<i>Arcynopteryx</i> sp.	0		15		0	
<i>Claasenia</i> sp.	0		4		0	
<i>Hastaperla</i> sp.	11		0		0	
<i>Isoperla</i> sp.	0		0		45	
Perlodidae	0		4		0	
Trichoptera	60	(26.91)	118	(18.35)	68	(5.70)
<i>Arctopsyche</i> sp.	0		22		0	
<i>Brachycentrus</i> sp.	0		0		6	
<i>Cheumatopsyche</i> sp.	26		48		28	
<i>Hydropsyche</i> sp. 1	19		0		0	
<i>Hydropsyche</i> sp. 3	4		48		0	

Continued...

Table 23. Continued.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
<i>Hydropsyche</i> sp. 5	11		0		17	
<i>Lepidostoma</i> sp.	0		0		6	
<i>Oecetis</i> sp.	0		0		11	
Diptera			249 (38.72)			
Athericidae						88
<i>Atherix</i> sp.	0		33	(5.13)	6	(0.50)
Chironomidae	4	(1.79)	209	(32.50)	17	(1.42)
<i>Chironomus</i> sp.	0		7		0	
<i>Cricotopus</i> sp.	4		48		11	
<i>Cryptochironomus</i> sp.	0		4		0	
<i>Eukiefferiella</i> sp. 1	0		19		0	
<i>Eukiefferiella</i> sp. 2	0		4		0	
<i>Harnischia</i> gr. sp.	0		4		0	
<i>Micropsectra</i> sp.	0		4		0	
<i>Microtendipes</i> sp. 1	0		4		0	

Continued...

Table 23. Continued.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
<i>Microtendipes</i> sp. 2	0		11		0	
<i>Paralauterborniella</i> sp.	0		7		0	
<i>Phaenopsectra</i> (<i>Tribelos</i>) sp.	0		30		0	
<i>Polypedilum</i> (<i>s.s.</i>) <i>fallax</i> gr.	0		7		0	
<i>Rheotanytarsus</i> sp.	0		26		0	
<i>Thienemannemyia</i> gr. sp.	0		30		6	
Orthoclaadiinae	0		4		0	
Empididae						
<i>Hemerodromia</i> sp.	4	(1.79)	7	(1.09)	0	
Simuliidae						
<i>Simulium</i> sp.	4	(1.79)	0		0	
Total number of taxa	13		31		16	
Total number of organisms/m ²	223		643		1194	
Species Diversity (\bar{d})	2.12		3.06		1.32	

Table 23. Concluded.

Taxon	June		August		October	
	No/m ²	%	No/m ²	%	No/m ²	%
Equitability (e)	0.43		0.38		0.18	
Biovolume (cc /m ²)	1.11		3.33		2.22	

Table 24. Benthic macroinvertebrates of Christina River, Alberta, Station Number One, June to August 1978 (kick samples).

Taxon	June	August	October
Oligochaeta	1	12	2
Ephemeroptera			
<i>Ameletus</i> sp.	0	0	2
<i>Baetis</i> sp.	1	0	0
<i>Centroptilum</i> sp.	0	2	0
<i>Ephemerella (Ephemerella) inermis</i>	17	0	11
<i>Heptagenia</i> sp.	0	1	2
<i>Isonychia</i> sp.	0	0	1
<i>Pseudocloeon</i> sp.	1	0	0
<i>Rhithrogena</i> sp.	15	0	6
<i>Tricorythodes</i> sp.	0	2	0
Odonata			
<i>Ophiogomphus</i> sp.	1	0	0

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Continued...

Table 24. Continued.

Taxon	June	August	October
Plecoptera			
<i>Arcynopteryx</i> sp.	0	0	1
<i>Claasenia</i> sp.	0	0	2
<i>Hastaperla</i> sp.	1	0	0
<i>Isoperla</i> sp.	0	0	4
<i>Pteronarcella</i> sp.	0	0	1
Trichoptera			
<i>Brachycentrus</i> sp.	0	0	2
<i>Hydropsyche</i> sp. 1	1	0	0
<i>Hydropsyche</i> sp. 2	1	0	2
<i>Hydropsyche</i> sp. 3	0	0	1
<i>Lepidostoma</i> sp.	0	0	3
<i>Oecetis</i> sp.	0	0	8
			Continued...
Diptera			
Athericidae			

Table 24. Continued.

Taxon	June	August	October
<i>Atherix</i> sp.	7	0	0
Ceratopogonidae			
<i>Palpomyia</i> sp.	0	1	0
Chironomidae			
<i>Chironomus</i> sp. 1	0	65	0
<i>Chironomus</i> sp. 2	0	7	0
<i>Cryptochironomus</i> sp.	0	7	0
<i>Microtendipes</i> sp.	0	0	1
<i>Paracladopelma</i> sp.	0	3	0
<i>Parametriocnemus</i> sp.	1	0	0
<i>Phaenopsectra</i> (<i>Tribelos</i>) sp.	0	3	0
<i>Tanytarsus</i> sp.	0	22	0
<i>Thienemannemyia</i> gr. sp.	0	1	0
Chironomini	0	2	0
Tanytarsini	0	3	0

Continued...

Table 24. Concluded.

Taxon	June	August	October
Tabanidae			
<i>Chrysops</i> sp.	0	0	1
Tipulidae			
<i>Limnophila</i> sp.	2	0	2
Mollusca			
<i>Sphaerium</i> sp.	0	0	1

Table 25. Benthic macroinvertebrates of Christina River, Alberta, Station Number Two, June to October 1978 (kick samples).

Taxon	June	August	October
Oligochaeta	0	1	1
Nematoda	0	1	0
Ephemeroptera			
<i>Ameletus</i> sp.	0	1	17
<i>Baetis</i> sp.	8	5	1
<i>Centroptilum</i> sp.	0	3	0
<i>Ephemerella (Ephemerella) inermis</i>	19	0	1
<i>Heptagenia</i> sp.	5	11	1
<i>Pseudocloeon</i> sp. 1	1	1	0
<i>Rhithrogena</i> sp.	12	3	8
<i>Stenonema</i> sp.	1	0	0
<i>Tricorythodes</i> sp.	0	35	0
Odonata			
<i>Ophiogomphus</i> sp.	0	1	0

Continued...

Table 25. Continued.

Taxon	June	August	October
Plecoptera			
<i>Arcynopteryx</i> sp.	0	0	3
<i>Hastaperla</i> sp.	1	0	0
<i>Isoperla</i> sp.	0	0	7
Trichoptera			
<i>Brachycentrus</i> sp.	0	2	1
<i>Cheumatopsyche</i> sp.	1	9	0
<i>Hydropsyche</i> sp. 2	0	4	0
<i>Hydropsyche</i> sp. 3	0	15	1
<i>Hydropsyche</i> sp. 4	2	1	0
Coleoptera			
Elmidae <i>Optioservus</i> sp.	0	1	0
Diptera			
Athericidae			
<i>Atherix</i> sp.	2	2	2

Continued...

Table 25. Concluded.

Taxon	June	August	October
Mollusca			
<i>Sphaerium</i> sp.	0	1	0

Table 26. Benthic macroinvertebrates of Christina River, Alberta, Station Number Three, June to October 1978 (kick samples).

Taxon	June	August	October
Ephemeroptera			
<i>Ameletus</i> sp.	0	0	7
<i>Baetis</i> sp.	11	4	10
<i>Centroptilum</i> sp.	0	4	0
<i>Ephemerella</i> (<i>Ephemerella</i>) <i>inermis</i>	60	0	51
<i>Heptagenia</i> sp.	13	0	10
<i>Pseudocloeon</i> sp. 1	1	0	0
<i>Rhithrogena</i> sp.	47	2	29
Odonata			
<i>Ophiogomphus</i> sp.	1	0	0
Plecoptera			
<i>Arcynopteryx</i> sp.	1	0	20
<i>Claasenia</i> sp.	1	0	1
<i>Isoperla</i> sp.	0	0	4
<i>Taeniopteryx</i> sp.	0	0	1
			Continued...

Table 26. Continued.

Taxon	June	August	October
Trichoptera			
<i>Brachycentrus</i> sp.	2	2	4
<i>Cheumatopsyche</i> sp.	51	0	19
<i>Glossosoma</i> sp.	1	0	0
<i>Hydropsyche</i> sp. 1	8	0	0
<i>Hydropsyche</i> sp. 2	0	0	5
<i>Hydropsyche</i> sp. 3	3	0	3
<i>Hydropsyche</i> sp. 4	1	0	0
<i>Hydropsyche</i> sp. 5	24	0	20
<i>Lepidostoma</i> sp.	0	0	2
<i>Oecetis</i> sp.	0	0	1
<i>Polycentropus</i> sp.	1	0	0
<i>Pycnopsyche</i> sp.	0	0	1
Hemiptera			
Corixidae	0	1	0

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Continued...

Table 26. Continued.

Taxon	June	August	October
Diptera			
Athericidae			
<i>Atherix</i> sp.	2	2	3
Chironomidae			
<i>Chironomus</i> sp.	0	28	0
<i>Eukiefferiella</i> sp.	5	0	6
<i>Orthocladius</i> sp.	1	0	0
<i>Phaenopsectra (Tribelos)</i> sp.	0	1	0
<i>Polypedilum (s.s.) fallax</i> gr.	2	0	0
<i>Rheotanytarsus</i> sp.	17	1	0
<i>Tanytarsus</i> sp.	0	1	0
Empididae			
<i>Hemerodromia</i> sp.	9	0	0
Ephydriidae			
<i>Ephydra</i> sp.	0	5	0
			Continued...

Table 26. Concluded.

Taxon	June	August	October
Simuliidae			
<i>Simulium</i> sp.	2	0	0
Mollusca			
<i>Sphaerium</i> sp.	0	1	0
			100

Table 27. Benthic macroinvertebrates of Christina River, Alberta, Station Number Four, June to October 1978 (kick samples).

Taxon	June	August	October
Ephemeroptera			
<i>Ameletus</i> sp.	0	0	6
<i>Baetis</i> sp.	19	7	5
<i>Centroptilum</i> sp.	0	1	0
<i>Ephemerella</i> (<i>Ephemerella</i>) <i>aurivillii</i>	2	0	0
<i>Ephemerella</i> (<i>Ephemerella</i>) <i>inermis</i>	63	0	10
<i>Heptagenia</i> sp.	7	15	2
<i>Rhithrogena</i> sp.	16	1	6
<i>Tricorythodes</i> sp.	0	7	0
Plecoptera			
<i>Arcynopteryx</i> sp.	0	3	1
<i>Hastaperla</i> sp.	2	0	0
<i>Isoperla</i> sp.	0	0	7
Trichoptera			
<i>Arctopsyche</i> sp.	6	1	0
			Continued...

Table 27. Continued.

Taxon	June	August	October
<i>Brachycentrus</i> sp.	0	6	3
<i>Cheumatopsyche</i> sp.	0	0	5
<i>Hydropsyche</i> sp. 1	13	0	0
<i>Hydropsyche</i> sp. 3	0	2	4
<i>Hydropsyche</i> sp. 5	0	0	3
<i>Lepidostoma</i> sp.	0	0	3
<i>Onocosmoecus</i> sp.	1	0	0
Diptera			
Athericidae			
<i>Atherix</i> sp.	1	9	1
Ceratopogonidae			
Chironomidae			
<i>Chironomus</i> sp.	0	1	0
<i>Eukiefferiella</i> sp.	5	0	0
<i>Microtendipes</i> sp. 2	1	0	0
<i>Phaenopsectra (Tribelos)</i> sp.	0	1	0
			Continued...

Table 27. Concluded.

Taxon	June	August	October
Empididae			
<i>Hemerodromia</i> sp.	2	0	0
Simuliidae			
<i>Simulium</i> sp.	0	0	1
Tipulidae			
<i>Limnophila</i> sp.	0	1	0

Table 28. Density and community structure of benthic macroinvertebrates from Algar Lake, Alberta, August 1978.

Taxon	Number/m ² (%)		
	Station 1	Station 2	Station 3
Oligochaeta	56(3.84)	11(2.55)	899(42.19)
Amphipoda	144(9.90)		
<i>Gammarus lacustris</i>	11	0	0
<i>Hyalella azteca</i>	133	44(10.19)	33(1.55)
Trichoptera			
<i>Molanna flavicornis</i>	0	11(2.55)	0
Hemiptera			
Corixidae	11(0.76)	0	0
Diptera			
Ceratopogonidae			
<i>Palpomyia</i> sp.	0	0	33(1.55)
Chaoboridae			
<i>Chaoborus</i> sp.	44(3.03)	0	0

Continued...

Table 28. Continued.

Taxon	Number/m ² (%)		
	Station 1	Station 2	Station 3
Chironomidae	1199(82.46)		777(36.46)
<i>Chironomus</i> sp.	688	366(84.72)	11
<i>Cricotopus</i> sp.	0	0	33
<i>Cryptochironomus</i> sp.	100	0	56
<i>Procladius</i> sp.	355	0	0
<i>Stictochironomus</i> sp.	0	0	522
<i>Tanytarsus</i>	56	0	155
Mollusca			
<i>Pisidium</i> sp.	0	0	389(18.25)
Total number of taxa	1454	432	2131
Total number of organisms/m ²	9	4	9
Species Diversity (\bar{d})	1.53	0.56	1.53

Continued...

Table 28. Concluded.

Taxon	Number/m ² (%)		
	Station 1	Station 2	Station 3
Equitability (e)	0.44	0.50	0.44
Biovolume (cc /m ²)	73.12	30.11	12.90

Table 29. Percent composition of the macrobenthic fauna of Algar Lake, Alberta, 21 August 1978. All stations combined.

	%
Insecta (60.77) — [Diptera ————— 60.23
	Trichoptera ——— 0.27
	Hemiptera ——— 0.27
Arthropoda (66.27) — [
	Amphipoda (5.50) ————— 5.50
Oligochaeta (24.05) —————	24.05
Mollusca (9.68) —————	9.68

Table 30. Density and community structure of benthic macroinvertebrates from Algar River, Alberta, 21 August 1978.

Taxon	Number/m ² (%)			Total Number Collected From Kick Samples		
	Station 1	Station 2	Station 3	Station 1	Station 2	Station 3
Oligochaeta	0	155(58.27)	89(6.71)	1	1	0
Hirudinea			44(3.05)			
<i>Glossiphonia complanata</i>	0	0	22	0	2	0
<i>Helobdella stagnalis</i>	0	0	22	0	0	0
Amphipoda						
<i>Hyalella azteca</i>	0	0	0	0	7	2
Ephemeroptera	135(16.52)					
<i>Ameletus</i> sp.	0	0	0	1	0	0
<i>Baetis</i> sp.	17	0	0	2	0	0
<i>Centroptilum</i> sp.	0	0	0	2	0	0
<i>Ephemerella (Dannella) simplex</i>	0	0	0	1	0	0
<i>Heptagenia</i> sp.	118	0	0	19	0	0
<i>Hexagenia</i> sp.	0	0	0	1	0	0

Continued...

Table 30. Continued.

Taxon	Number/m ² (%)			Total Number Collected From Kick Samples		
	Station 1	Station 2	Station 3	Station 1	Station 2	Station 3
Odonata						
<i>Ophiogomphus</i> sp.	0	0	0	0	1	0
Plecoptera	113(13.83)					
<i>Arcynopteryx</i> sp.	95	0	0	3	0	0
<i>Hastaperla</i> sp.	6	0	0	0	0	0
<i>Nemoura (Amphinemura)</i> sp.	6	0	0	1	0	0
<i>Pteronarcella regularis</i>	6	0	0	3	1	0
Trichoptera	471(57.65)					
<i>Arctopsyche</i> sp.	151	0	0	32	0	0
<i>Brachycentrus</i> sp.	90	0	0	6	0	0
<i>Cheumatopsyche</i> sp.	45	0	0	0	0	0
<i>Hydropsyche</i> sp. 1	22	0	0	0	0	0
<i>Hydropsyche</i> sp. 2	118	0	0	0	0	0
<i>Hydropsyche</i> sp. 4	45	0	0	6	0	0

Continued...

Table 30. Continued.

Taxon	Number/m ² (%)			Total Number Collected From Kick Samples		
	Station 1	Station 2	Station 3	Station 1	Station 2	Station 3
<i>Ptilostomis</i> sp.	0	0	0	0	1	2
Hemiptera						
<i>Sigara fallenoidea</i>	0	0	0	0	9	0
Coleoptera						
Dytiscidae						
<i>Ilybius pleuriticus</i>	0	0	0	0	1	0
Haliplidae						
<i>Haliplus</i> sp.	0	0	0	0	4	0
Diptera						
Chironomidae	35(4.28)		222(15.38)			
<i>Cricotopus</i> sp.	6	0	0	0	0	0
<i>Eukiefferiella</i> sp.	6	0	0	3	0	0
<i>Parachironomus</i> sp.	0	0	0	0	2	0
<i>Paracladopelma</i> sp.	0	0	0	1	0	0

Continued...

Table 30. Continued.

Taxon	Number/m ² (%)			Total Number Collected From Kick Samples		
	Station 1	Station 2	Station 3	Station 1	Station 2	Station 3
<i>Phaenopsectra (Tribelos) sp.</i>	0	0	0	0	1	1
<i>Polypedilum (Pentapedilum) sp.</i>	6	0	0	0	0	0
<i>Procladius sp.</i>	0	0	0	0	4	2
<i>Rheocricotopus sp.</i>	17	0	0	0	0	0
<i>Tanytarsus sp.</i>	0	0	0	0	2	1
<i>Thienemannimyia gr. sp.</i>	0	0	222	2	0	0
Dixidae						
<i>Dixa (Paradixa) sp.</i>	0	0	0	0	7	0
Empididae						
<i>Hemerodromia sp.</i>	0	0	0	1	0	0
Simuliidae						
<i>Simulium sp.</i>	6 (0.73)	0	0	0	0	0
Tabanidae						
<i>Chrysops sp.</i>	0	44 (16.54)	0	0	0	0

Continued...

Table 30. Concluded.

Taxon	Number/m ² (%)			Total Number Collected From Kick Samples		
	Station 1	Station 2	Station 3	Station 1	Station 2	Station 3
Tipulidae						
<i>Dicranota</i> sp.	6(0.73)	0	0	0	0	0
Mollusca	51(6.24)					
<i>Gyraulus parvus</i>	17	0	0	0	0	0
<i>Pisidium</i> sp.	34	67(25.19)	1088(75.40)	0	0	0
Total number of taxa	20	3	5			
Total number of organisms/m ²	817	266	1443			
Species Diversity (\bar{d})	2.42	0.96	0.88			
Equitability (e)	0.35	0.67	0.40			
Biovolume (cc /m ²)	8.07	4.30	10.75			

Table 31. Percent composition of the macrobenthic fauna of Algar River, Alberta, 21 August 1978. Stations combined.

	%
Insecta (43.39)	19.45
Trichoptera	12.77
Diptera	6.05
Ephemeroptera	4.55
Plecoptera	0.34
Hemiptera	0.19
Coleoptera	0.04
Odonata	
Arthropoda (43.73)	
Amphipoda (0.34)	0.34
Oligochaeta (9.24)	9.24
Hirudinea (1.73)	1.73
Mollusca (45.30)	45.30

Table 32. Density and community structure of benthic macroinvertebrates from Cameron Creek, Alberta, 23 August 1978.

Taxon	Number/m ²	(%)
Oligochaeta	55	2.98
Nematoda	22	1.19
Ephemeroptera	188	10.17
<i>Baetis</i> sp.	11	
<i>Heptagenia</i> sp.	166	
<i>Rhithrogena</i> sp.	11	
Plecoptera	110	5.95
<i>Alloperla</i> or <i>Hastaperla</i> sp.	11	
<i>Arcynopteryx</i> sp.	44	
<i>Hastaperla</i> sp.	11	
<i>Nemoura (Zapada) cinctipes</i>	11	
<i>Pteronarcella regularis</i>	33	

Continued...

Table 32. Continued.

Taxon	Number/m ²	(%)
Trichoptera	1396	75.54
<i>Brachycentrus</i> sp.	210	
<i>Cheumatopsyche</i> sp.	11	
<i>Glossosoma</i> sp.	1109	
<i>Hydropsyche</i> sp. 4	66	
Coleoptera		
Elmidae		
<i>Optioservus</i> sp.	22	1.19
Diptera		
Chironomidae	44	2.38
<i>Orthocladius</i> sp.	11	
<i>Paracladopelma</i> sp.	11	
<i>Parametriocnemus</i> sp.	11	
<i>Potthastia</i> sp.	11	

Continued...

Table 32. Concluded.

Taxon	Number/m ²	(%)
Tipulidae		
<i>Hexatoma</i> sp.	11	0.60
Total number of taxa	20	
Total number of organisms/m ²	1848	
Species Diversity (\bar{d})	1.59	
Equitability (e)	0.21	
Biovolume (cc /m ²)	4.28	

Table 33. Percent composition of the macrobenthic fauna of Cameron Creek, Alberta, August, 1978.

	%
Insecta (96.0)	
Trichoptera	76.0
Ephemeroptera	10.0
Plecoptera	6.0
Diptera	3.0
Coleoptera	1.0
Oligochaeta (3.0)	3.0
Nematoda (1.0)	1.0

Table 34. Density and community structure of benthic macroinvertebrates from Horse River, Alberta, August 1978.

Taxon	Number/m ² (%)				Total Number Collected From Kick Samples	
	Station 1	Station 2	Station 3	Station 4	Station 3	Station 4
Oligochaeta	22(1.65)	6(0.19)	0	11	0	1
Hirudinea	0	0	6(1.78)	0	1	0
Amphipoda	6(0.45)	0	0	0		
<i>Hyallela azteca</i>					0	0
Ephemeroptera	650(48.84)	95(3.09)	12(3.55)	197(13.83)		
<i>Ameletus</i> sp.	134	22	0	0	0	0
<i>Baetis</i> sp.	454	50	0	34	0	0
<i>Centroptilum</i> sp.	0	0	6	6	0	0
<i>Ephemerella</i> (<i>Ephemerella</i>)						
<i>inermis</i>	0	0	0	17	0	0
<i>Heptagenia</i> sp.	45	17	0	134	2	0
<i>Metretopus</i>	0	0	6	0	0	0
<i>Paraleptophebica</i> sp.	17	0	0	0	0	1

Continued...

Table 34. Continued.

Taxon	Number/m ² (%)				Total Number Collected From Kick Samples	
	Station 1	Station 2	Station 3	Station 4	Station 3	Station 4
<i>Rhithrogenia</i> sp.	0	6	0	0	0	0
<i>Stenonema</i> sp.	0	0	0	6	0	0
Odonata						
<i>Ophiogomphus</i> sp.	0	17 (0.55)	0	0	1	2
Plecoptera		50 (1.62)		101 (7.09)		
<i>Arcynopteryx</i> sp.	0	11	0	67	0	0
<i>Hastaperla</i> sp.	0	0	0	6	0	0
<i>Isoperla</i> sp.	0	17	0	11	0	0
<i>Leuctra</i> sp.	0	0	0	6	0	0
<i>Pteronarcys dorsata</i>	0	11	0	11	0	0
<i>Taeniopteryx</i> sp.	0	11	0	0	0	0
Trichoptera	11 (0.83)	1840 (59.76)		807 (56.67)		
<i>Arctopsyche</i> sp.	0	0	0	34	0	0
<i>Brachycentrus</i> sp.	11	106	0	314	0	6

Continued...

Table 34. Continued.

Taxon	Number/m ² (%)				Total Number Collected From Kick Samples	
	Station 1	Station 2	Station 3	Station 4	Station 3	Station 4
<i>Cheumatopsyche</i> sp.	0	711	0	112	0	0
<i>Glossosoma</i> sp.	0	532	0	78	0	0
<i>Hydropsyche</i> sp. 1	0	11	0	11	0	0
<i>Hydropsyche</i> sp. 2	0	123	0	123	0	0
<i>Hydropsyche</i> sp. 3	0	84	0	106	0	0
<i>Hydropsyche</i> sp. 4	0	50	0	17	0	0
<i>Lepidostoma</i> sp.	0	11	0	6	0	6
<i>Phrypanea</i> sp.	0	0	0	0	0	1
<i>Polycentropus</i> sp.	0	78	0	0	0	0
<i>Psychomyia</i> sp.	0	134	0	6	0	0
Hemiptera						
Corixidae						
<i>Sigara decoratella</i>	0	0	0	0	0	5
<i>Sigara trilineata</i>	0	0	0	0	0	1

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Continued...

Table 34. Continued.

Taxon	Number/m ² (%)				Total Number Collected From Kick Samples	
	Station 1	Station 2	Station 3	Station 4	Station 3	Station 4
<i>Sigara washingtonensis</i>	0	0	0	0	0	5
Diptera	63147.41)	1060(34.43)	320(94.67)	308(21.63)		
Athericidae						
<i>Atherix</i> sp.	17(1.28)	6(0.49)	0	0	0	0
Chironomidae	570(42.82)	1042(33.84)	297(87.87)	302(21.21)		
<i>Ablabesmyia</i>	17	0	6	11	0	1
<i>Cricotopus</i> sp. 1	118	185	0	0	0	1
<i>Cricotopus</i> sp. 2	11	28	0	0	0	0
<i>Cricotopus</i> sp. 3	45	151	0	0	0	0
<i>Cryptochironomus</i>	6	0	0	0	0	0
<i>Eukiefferiella</i> sp. 1	6	78	0	22	0	0
<i>Eukiefferiella</i> sp. 2	6	442	0	0	0	0
<i>Harnische</i> gr. sp.	6	0	0	0	0	0
<i>Microspectra</i> sp.	118	0	0	11	0	0

Continued...

Table 34. Continued.

Taxon	Number/m ² (%)				Total Number Collected From Kick Samples	
	Station 1	Station 2	Station 3	Station 4	Station 3	Station 4
<i>Microtendipes</i> sp. 1	17	11	0	0	0	0
<i>Nanocladius</i> sp.	0	0	78	0	0	0
<i>Nilotanypus</i> sp.	0	0	0	0	1	0
Orthoclaadiinae	6	6	0	45	0	0
<i>Orthocladus</i> sp.	0	17	129	11	0	0
<i>Parachironomus</i> sp.	0	0	0	6	0	0
<i>Parakiefferiella</i> sp.	45	0	0	0	0	0
<i>Parametriocnemus</i> sp.	0	0	0	106	0	0
<i>Phaenopsectra</i> (<i>Tribelos</i>)	0	0	0	0	0	3
<i>Polypedilum</i> (<i>s.s.</i>) <i>fallax</i> gr.	0	0	0	17	0	0
<i>Psectrocladius</i> sp.	17	0	0	0	0	0
<i>Pseudosmittia</i> sp.	0	0	50	0	0	0
<i>Rheocricotopus</i> sp.	0	6	0	17	0	0

Continued...

Table 34. Continued.

Taxon	Number/m ² (%)				Total Number Collected From Kick Samples	
	Station 1	Station 2	Station 3	Station 4	Station 3	Station 4
<i>Rheotanytarsus</i> sp.	45	22	0	56	0	4
<i>Synorthocladus</i> sp.	28	90	0	0	0	0
<i>Tanytarsus</i> sp.	6	0	28	0	0	0
<i>Thienemanniella</i> sp.	11	6	6	0	0	0
<i>Thienemannimyia</i> gr. sp.	62	0	0	0	0	1
Ephydriidae	0	0	0	0	0	1
Muscidae	0	0	6(1.78)	0	0	0
Simuliidae						
<i>Simulium</i> sp.	22(1.65)	6(0.19)	0	0	0	0
Tabanidae						
<i>Chrysops</i> sp.	0	0	6(1.78)	0	0	0
Tipulidae						
<i>Antocha</i> sp.	0	6(0.19)	0	0	0	0
<i>Limmophila</i> sp.	22(1.65)	0	0	6	0	0

Continued...

Table 34. Concluded.

Taxon	Number/m ² (%)				Total Number Collected From Kick Samples	
	Station 1	Station 2	Station 3	Station 4	Station 3	Station 4
<i>Ormosa</i> sp.	0	0	11(3.25)	0	0	0
Mollusca	17(1.28)	11(.36)				
Gastropoda	17(1.28)	11(0.36)	0	0	0	0
Total number of taxa	29	36	12	32		
Total number of organisms/m ²	1331	3079	338	1424		
Species Diversity (\bar{d})	2.54	2.60	1.84	2.82		
Equitability (e)	0.26	0.21	0.38	0.30		
Biovolume (cc/m ²)	2.15	7.0	1.10	6.46		

Table 35. Percent composition of the macrobenthic fauna of Horse River, Alberta, August 1978.

	%
Insecta (98.70)	
Trichoptera	42.93
Diptera	37.46
Ephemeroptera	15.38
Plecoptera	2.43
Odonata	0.32
Hemiptera	0.18
Arthropoda (98.8)	
Amphipoda (0.10)	0.10
Oligochaeta (0.64)	0.64
Hirudinea (0.11)	0.11
Mollusca (0.45)	0.45

Table 36. Density and community structure of benthic macroinvertebrates from Prairie Creek, Alberta, 17 August 1978.

Taxon	Number/m ² (%)	Total Number Collected From Kick Samples	126
Oligochaeta	67(13.45)	0	
Hirudinea			
<i>Glossiphonia complanata</i>	0	1	
Amphipoda	56(11.24)	28	
<i>Gammarus lacustris</i>	50	20	
<i>Hyalella azteca</i>	6	8	
Ephemeroptera	23(4.62)	2	
<i>Baetis</i> sp.	6	1	
<i>Centroptilum</i> sp.	17	1	
Odonata			
<i>Ophiogomphus</i> sp.	0	3	
Trichoptera			
<i>Glyphopsyche irrorata</i>	0	1	

Continued...

Table 36. Continued.

Taxon	Number/m ² (%)	Total Number Collected From Kick Samples
Hemiptera		
<i>Callicorexa audeni</i>	0	8
<i>Sigara</i> sp.	17(3.41)	0
Diptera		
Ceratopogonidae		
<i>Palpomyia</i> sp.	11(2.21)	1
Chironomidae		
<i>Heterotrissocladius marcidus</i> gr.	0	2
<i>Orthocladius</i> sp.	0	1
<i>Rheocricotopus</i> sp.	0	1
<i>Tanytarsus</i> sp.	11(2.21)	1
<i>Thienemannimyia</i> gr. sp.	0	2
Diamesinae	0	1
Simuliidae		
<i>Simulium</i> sp.	0	3

Continued...

Table 36. Concluded.

Taxon	Number/m ² (%)	Total Number Collected From Kick Samples
Stratiomyidae		
<i>Stratiomyia</i> sp.	0	1
Tabanidae		
<i>Chrysops</i> sp.	11 (2.21)	0
Mollusca		
<i>Pisidium</i> sp.	302 (60.64)	273
Total number of taxa	12	
Total number of organisms/m ²	498	
Species Diversity (\bar{d})	1.44	
Equitability (e)	0.27	
Biovolume (cc/m ²)	1.07	

Table 37. Percent composition of the macrobenthic fauna of Prairie Creek, Alberta, 17 August, 1978.

	%
Insecta (12.08) —	
Diptera —————	5.56
Ephemeroptera ———	3.02
Hemiptera —————	3.02
Odonata —————	0.36
Trichoptera ———	0.12
Arthropoda (22.24) —	
Amphipoda (10.16) —————	10.16
Oligochaeta (8.10) —————	8.10
Hirudinea (0.12) —————	0.12
Mollusca (69.53) —————	69.53

Table 38. Density and community structure of benthic macroinvertebrates from Saline Creek, Alberta, August 1978.

Taxon	Number/m ² (%)		Total Number Collected From Kick Samples	
	Station 1	Station 3	Station 1	Station 3
Oligochaeta	39(32.77)	11(6.15)	0	2
Hirudinea				
<i>Nepheleopsis obscura</i>	0	0	1	0
Ephemeroptera		50(27.93)		
<i>Baetis</i> sp.	62(52.1)	28	1	7
<i>Centroptilum</i> sp.	0	0	2	0
<i>Heptagenia</i> sp.	0	11	1	0
<i>Paraleptophlebia</i> sp.	0	11	0	0
Odonata				
<i>Ophiogomphus</i> sp.	0	0	2	0
Plecoptera				
<i>Nemoura</i> sp.	0	28(15.64)	0	0

Continued...

Table 38. Continued.

Taxon	Number/m ² (%)		Total Number Collected From Kick Samples	
	Station 1	Station 3	Station 1	Station 3
<i>Nemoura (Amphinemura) sp.</i>	0	0	0	1
Trichoptera		50 (27.93)		
<i>Amiocentrus sp.</i>	0	11	0	0
<i>Brachycentrus sp.</i>	0	39	2	0
<i>Cheumatopsyche sp.</i>	0	0	0	1
<i>Hydropsyche sp. 3</i>	0	0	0	1
<i>Hydropsyche sp. 4</i>	0	0	1	0
Hemiptera				
<i>Corixidae Callicorixa audeni</i>	0	0	6	0
<i>Sigara sp.</i>	0	0	1	0
Coleoptera				
Elmidae				
<i>Optioservus sp.</i>	0	0	0	2

Continued...

Table 38. Continued.

Taxon	Number/m ² (%)		Total Number Collected From Kick Samples	
	Station 1	Station 3	Station 1	Station 3
Diptera	18(15.13)			
Ceratopogonidae				
<i>Palpomyia, Bezzia</i> or <i>Johannsenomyia</i>	0	6(3.35)	0	0
Chironomidae	18(15.13)	23(12.85)		
<i>Chironomus</i> sp.	6	0	0	0
<i>Cricotopus</i> sp.	0	6	0	0
<i>Demicryptochironomus</i> sp.	6	0	0	0
<i>Eukiefferiella</i> sp.	0	11	0	0
<i>Orthocladius</i> sp.	0	6	0	0
<i>Paracladopelma</i> sp.	6	0	0	
Empididae	0	0	0	1
Simuliidae				
<i>Simulium</i> sp.	0	11(6.15)	0	0

Continued...

Table 38. Concluded.

Taxon	Number/m ² (%)		Total Number Collected From Kick Samples	
	Station 1	Station 3	Station 1	Station 3
Stratiomyidae				
<i>Stratiomyia</i> sp.	0	0	0	1
Tabanidae				
<i>Chrysops</i> sp.	0	0	2	0
Mollusca				
Pelecypoda				
<i>Pisidium</i> sp.	0	0	5	0
Total number of taxa	5	12		
Total number of organisms/m ²	119	179		
Species Diversity (\bar{d})	1.14	2.38		
Equitability (e)	0.60	0.54		
Biovolume (cc/m ²)	1.47	2.15		

Table 39. Percent composition of the macrobenthic fauna of Saline Creek, Alberta, August, 1978.

	%
Insecta (82.87)	
Ephemeroptera	36.28
Diptera	18.58
Trichoptera	16.22
Plecoptera	8.55
Hemiptera	2.06
Odonata	0.59
Coleoptera	0.59
Oligochaeta (15.34)	15.34
Hirudinea (0.29)	0.29
Mollusca (1.47)	1.47

Table 40. Density and community structure of benthic macroinvertebrates from Saprae Creek, Alberta, August 1978.

Taxon	Number/m ² (%)			Total Number Collected From Kick Samples		
	Station 2	Station 3	Station 1	Station 2	Station 3	Station 1
Oligochaeta	6(3.09)	0	6(1.55)	3	0	1
Hirudinea						
<i>Nepheleopsis obscura</i>	0	0	0	0	1	0
Crustacea						
<i>Candona</i> sp.	0	0	0	0	1	0
<i>Eurycercus lamellatus</i>	0	6(1.47)	0	0	0	0
Amphipoda						
<i>Gammarus lacustris</i>	0	62(15.23)	0	0	12	0
<i>Hyalella azteca</i>	0	0	0	0	1	0
Ephemeroptera	56(28.87)	34(8.35)	151(39.02)			
<i>Ameletus</i> sp.	0	6	0	0	0	1
<i>Baetis</i> sp.	0	17	22	12	17	37

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Continued...

Table 40. Continued.

Taxon	Number/m ² (%)			Total Number Collected From Kick Samples		
	Station 2	Station 3	Station 1	Station 2	Station 3	Station 1
<i>Brachycercus</i> sp.	0	0	0	0	0	0
<i>Centroptilum</i> sp.	6	11	6	1	1	1
<i>Ephemerella</i> (<i>Drunella</i>) <i>spinifera</i>	28	0	0	17	0	0
<i>Ephemerella</i> (<i>Ephemerella</i>) <i>inermis</i>	0	0	0	0	1	0
<i>Ephemerella</i> (<i>Serratella</i>) <i>tibialis</i>	0	0	0	2	0	0
<i>Heptagenia</i> sp.	22	0	39	42	0	12
<i>Paraleptophlebia</i> sp.	0	0	0	1	0	0
<i>Rhithrogena</i> sp.	0	0	78	0	0	11
Baetidae	0	0	6	0	0	0
Odonata						
<i>Aeshna interrupta</i>	0	6(1.47)	0	0	0	0

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Continued...

Table 40. Continued.

Taxon	Number/m ² (%)			Total Number Collected From Kick Samples		
	Station 2	Station 3	Station 1	Station 2	Station 3	Station 1
<i>Ophiogomphus</i> sp.	0	0	0	0	2	0
Plecoptera	28(14.43)	22(5.41)	67(17.31)			
<i>Alloperla</i> or <i>Hastaperla</i> sp.	17	0	0	5	0	8
<i>Arcynopteryx</i> sp.	11	0	6	1	0	2
<i>Claasenia</i> sp.	0	0	0	0	0	1
<i>Hastaperla</i> sp.	0	0	11	0	0	0
<i>Isogenus</i> sp.	0	11	0	0	1	0
<i>Leuctra</i> (<i>Paraleuctra</i>) sp.	0	0	0	1	0	0
<i>Nemoura</i> (<i>Amphinemura</i>) sp.	0	11	0	0	1	0
<i>Nemoura</i> (<i>Zapada</i>) <i>cinctipes</i>	0	0	0	0	0	1
<i>Pteronarcella regularis</i>	0	0	50	16	0	23
Megaloptera						
<i>Sialis</i> sp.	0	0	0	0	1	0

Continued...

Table 40. Continued.

Taxon	Number/m ² (%)			Total Number Collected From Kick Samples		
	Station 2	Station 3	Station 1	Station 2	Station 3	Station 1
Trichoptera	80(41.24)	79(19.41)	140(36.18)			
<i>Amiocentrus</i> sp.	0	22	0	0	1	0
<i>Arctopsyche</i> sp.	0	0	6	1	0	1
<i>Brachycentrus</i> sp.	6	6	0	3	0	2
<i>Cheumatopsyche</i> sp.	0	0	0	1	1	0
<i>Glossosoma</i> sp.	56	0	45	28	0	7
<i>Glyphopsyche irrorata</i>	0	6	0	0	0	0
<i>Hesperophylax</i> sp.	0	0	0	1	0	0
<i>Hydropsyche</i> sp. 1	0	0	11	0	0	2
<i>Hydropsyche</i> sp. 4	6	0	78	4	0	11
<i>Lenarchus</i> sp.	0	39	0	0	1	0
<i>Lepidostoma</i> sp.	6	0	0	0	0	0
<i>Onocosmoecus</i> sp.	0	0	0	1	0	0
<i>Polycentropus</i> sp.	0	0	0	0	6	0

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Continued...

Table 40. Continued.

Taxon	Number/m ² (%)			Total Number Collected From Kick Samples			
	Station 2	Station 3	Station 1	Station 2	Station 3	Station 1	
<i>Psychomyia</i> sp.	6	0	0	0	0	0	
<i>Ptilostomis</i> sp.	0	6	0	0	2	0	
Hemiptera							
<i>Sigara</i> sp.	0	28(6.88)	0	0	0	0	139
<i>Sigara washingtonensis</i>	0	0	0	0	3	0	
Coleoptera							
<i>Ilybius pleuriticus</i>	0	0	0	0	1	0	
<i>Optioservus</i> sp.	0	11(2.70)	0	0	1	0	
Diptera							
Ceratopogonidae							
<i>Palpomyia</i> sp.	0	6(1.47)	0	0	0	0	
Chironomidae							
<i>Brillia</i> sp.	0	0	6	1	0	0	

Continued...

Table 40. Continued.

Taxon	Number/m ² (%)			Total Number Collected From Kick Samples		
	Station 2	Station 3	Station 1	Station 2	Station 3	Station 1
<i>Cricotopus</i> sp.	0	28	0	0	0	0
<i>Eukiefferiella</i> sp.	0	22	0	0	0	0
<i>Heterotrissocladius marcidus</i> gr.	6	6	0	0	2	0
<i>Micropsectra</i> sp.	0	0	0	0	0	1
<i>Orthocladius</i> sp.	0	11	0	0	1	0
<i>Paralauterborniella</i> sp.	0	6	0	0	0	0
<i>Parametriocnemus</i> sp.	0	0	0	2	0	0
<i>Rheocricotopus</i> sp.	0	0	0	0	1	0
<i>Rheotanytarsus</i> sp.	6	0	0	0	0	0
<i>Stictochironomus</i> sp.	0	0	0	4	0	1
<i>Tanytarsus</i> sp.	0	0	0	0	1	0
<i>Thienemannemyia</i> gr. sp.	6	6	6	0	2	0
<i>Thienemanniella</i> sp.	0	22	0	0	0	0
Tanytarsini	0	6	0	0	0	0

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Continued...

Table 40. Continued.

Taxon	Number/m ² (%)			Total Number Collected From Kick Samples		
	Station 2	Station 3	Station 1	Station 2	Station 3	Station 1
Dixidae						
<i>Dixia (Paradixa) sp.</i>	0	6(1.47)	0	0	0	0
Empididae						
<i>Clinocera sp.</i>	0	0	0	1	0	0
<i>Hemerodromia sp.</i>	6(3.09)	0	11(2.84)	0	0	0
<i>Wiedemannia sp.</i>	0	0	0	2	0	0
Muscidae						
<i>Limmophora sp.</i>	0	6(1.47)	0	0	0	0
Simuliidae						
<i>Simulium sp.</i>	0	34(8.35)	0	1	6	2
Tipulidae						
<i>Dicranota sp.</i>	0	0	0	0	1	0
<i>Hexatoma sp.</i>	0	0	0	0	0	2

Continued...

Table 40. Concluded.

Taxon	Number/m ² (%)			Total Number Collected From Kick Samples		
	Station 2	Station 3	Station 1	Station 2	Station 3	Station 1
Total number of taxa	15	27	16			
Total number of organisms/m ²	194	407	387			
Species Diversity (\bar{d})	2.41	3.01	2.30			
Equitability (e)	0.44	0.39	0.44			
Biovolume (cc/m ²)	1.08	5.38	2.69			

Table 41. Percent composition of the macrobenthic fauna of Saprae Creek, Alberta, August 1978. Sites combined.

		%
	Ephemeroptera	29.79
	Trichoptera	27.84
	Diptera	17.74
	Plecoptera	13.25
	Insecta (92.58) — Hemiptera	2.32
	Coleoptera	0.97
	Odonata	0.60
	Megaloptera	0.07
Arthropoda (98.71)	Amphipoda (5.61)	5.61
	Crustacea (0.52)	0.52
Oligochaeta (1.22)		1.22
Hirudinea (0.07)		0.07

Table 42. Density and community structure of benthic macroinvertebrates from Surmont Creek, Alberta, August 1978.

Taxon	Number/m ² (%)			Total Number Collected From Kick Samples			
	Station 1	Station 2	Station 3	Station 1	Station 2	Station 3	
Oligochaeta	67(1.62)	0	56(9.46)	0	0	1	
Amphipoda							
<i>Hyalella azteca</i>	22(0.53)	0	0	0	0	0	144
Ephemeroptera	89(2.16)	29(13.62)	35(5.91)				
<i>Ameletus</i> sp.	0	6	6	0	6	14	
<i>Baetis</i> sp.	0	11	11	1	3	0	
<i>Caenis</i> sp.	22	0	0	0	0	0	
<i>Callibaetis</i> sp.	0	0	0	1	0	0	
<i>Centroptilum</i> sp.	0	0	0	0	2	0	
<i>Ephemerella (Drunella)</i>							
<i>spinifera</i>	0	6	6	0	1	4	
<i>Ephemerella (Ephemerella)</i>							
<i>inermis</i>	0	0	0	0	0	2	

Continued...

Table 42. Continued.

Taxon	Number/m ² (%)			Total Number Collected From Kick Samples		
	Station 1	Station 2	Station 3	Station 1	Station 2	Station 3
<i>Ephemerella (Serratella)</i>						
<i>tibialis</i> sp.	0	0	0	0	4	0
<i>Heptagenia</i> sp.	0	6	6	0	1	11
<i>Hexagenia</i> sp.	67	0	0	1	0	0
<i>Paraleptophlebia</i> sp.	0	0	6	1	3	1
Baetidae	0	0	0	0	0	11
Plecoptera		119(55.87)	7(2.87)			
<i>Alloperla</i> or <i>Hastaperla</i> sp.	0	45	0	0	0	7
<i>Arcynopteryx</i> sp.	0	6	0	0	3	1
<i>Capnia</i> or <i>Eucapnopsis</i> sp.	0	0	17	0	0	2
<i>Claasenia</i> sp.	0	6	0	0	7	4
<i>Nemoura (Zapada) cinctipes</i>	0	62	0	0	1	8
<i>Pteronarcella regularis</i>	0	0	0	1	10	0

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Continued...

Table 42. Continued.

Taxon	Number/m ² (%)			Total Number Collected From Kick Samples		
	Station 1	Station 2	Station 3	Station 1	Station 2	Station 3
Megaloptera						
<i>Sialis</i> sp.	44(1.07)	0	0	6	0	1
Trichoptera	22(0.53)	12(5.63)	118(19.93)			
<i>Arctopsyche</i> sp.	0	0	6	0	1	2
<i>Brachycentrus</i> sp.	0	0	39	0	2	6
<i>Cheumatopsyche</i> sp.	0	0	0	0	9	0
<i>Glossosoma</i> sp.	0	6	22	0	45	0
<i>Hydropsyche</i> sp. 1	0	0	0	0	1	0
<i>Hydropsyche</i> sp. 4	0	0	0	0	2	0
<i>Lenarchus</i> sp.	0	0	6	0	0	0
<i>Lepidostoma</i> sp.	0	0	17	0	6	1
<i>Psychoglypha</i> sp.	0	6	6	6	6	0
<i>Ptilostomis</i> sp.	22	0	0	20	0	0
<i>Rhyacophila</i> sp.	0	0	11	0	7	1

Continued...

Table 42. Continued.

Taxon	Number/m ² (%)			Total Number Collected From Kick Samples			
	Station 1	Station 2	Station 3	Station 1	Station 2	Station 3	
Limnephilidae	0	0	11	0	3	1	
Hemiptera							
Corixidae							
<i>Sigara</i> sp.	0	0	0	7	0	0	147
Coleoptera							
Dytiscidae	0	0	0	0	1	0	
Diptera							
Chironomidae	3862(93.56)	53(24.88)	332(56.08)				
<i>Chironomus</i> sp.	22	0	179	0	0	0	
<i>Cricotopus</i> sp.	0	6	0	0	1	17	
<i>Eukiefferiella</i> sp.	0	0	0	0	0	1	
<i>Heterotrissocladius</i>							
<i>marcidus</i> gr.	2020	6	0	30	26	13	

Continued...

Table 42. Continued.

Taxon	Number/m ² (%)			Total Number Collected From Kick Samples			
	Station 1	Station 2	Station 3	Station 1	Station 2	Station 3	
<i>Micropsectra</i> sp.	0	6	0	2	7	10	148
<i>Monodiamesa</i> sp.	666	0	6	1	5	11	
<i>Nanocladius</i> sp.	0	0	0	2	0	0	
<i>Odontomesa</i> sp.	67	0	0	4	4	0	
<i>Orthocladius</i> sp.	0	0	6	0	0	2	
<i>Paracladopelma</i> sp.	0	6	0	0	0	0	
<i>Phaenopsectra (Tribelos)</i> sp.	67	0	0	0	0	0	
<i>Polypedilum (Polypedilum)</i> sp.	577	0	34	1	4	17	
<i>Procladius</i> sp.	310	0	0	5	1	0	
<i>Prodiamesa</i> sp.	22	0	11	0	7	2	
<i>Pseudodiamesa</i> sp.	0	0	17	0	0	0	
<i>Rheocricotopus</i> sp.	0	6	0	1	0	1	
<i>Rheotanytarsus</i> sp.	0	0	0	0	2	7	
<i>Stictochironomus</i> sp.	0	0	11	0	0	0	

Continued...

Table 42. Continued.

Taxon	Number/m ² (%)			Total Number Collected From Kick Samples		
	Station 1	Station 2	Station 3	Station 1	Station 2	Station 3
<i>Synorthocladus</i> sp.	0	0	6	0	0	12
<i>Tanytarsus</i> sp.	111	0	0	0	0	0
<i>Thienemanniella</i> sp.	0	0	6	0	0	3
<i>Thienemannimyia</i> gr. sp.	0	6	45	0	0	117
Chironomini	0	6	0	0	0	0
Orthocladinae	0	11	11	0	1	1
Tanypodinae	0	0	0	0	2	2
Empididae						
<i>Chelifera</i> sp.	0	0	0	0	5	2
Psychodidae						
<i>Pericoma</i> or <i>Telmatoscopus</i> sp.	0	0	0	0	1	0
Simuliidae						
<i>Simulium</i> sp.	0	0	0	0	0	1

Continued...

Table 42. Concluded.

Taxon	Number/m ² (%)			Total Number Collected From Kick Samples			
	Station 1	Station 2	Station 3	Station 1	Station 2	Station 3	
Tipulidae	22(0.53)						
<i>Dicranota</i> sp.	0	0	34(5.74)	2	7	4	
<i>Limnophila</i> sp.	22	0	0	1	0	1	
Mollusca							
<i>Pisidium</i> sp.	0	0	0	0	0	1	150
Total number of taxa	16	18	26				
Total number of organisms/m ²	4128	213	592				
Species Diversity (\bar{d})	1.70	2.37	2.66				
Equitability (e)	0.25	0.39	0.33				
Biovolume (cc/m ²)	10.75	3.23	2.69				

Table 43. Percent composition of the macrobenthic fauna of Surmont Creek, Alberta, August 1978. Stations combined.

	%
Diptera	84.34
Trichoptera	4.84
Ephemeroptera	3.93
Plecoptera	3.21
Megaloptera	0.91
Hemiptera	0.13
Coleoptera	0.02
Insecta (97.38)	
Arthropoda (97.77)	
Amphipoda	0.39
Oligochaeta	2.21
Mollusca	0.02

B. SUMMARY OF GILLNET CATCHES

The common and scientific names for each fish species taken in this study are given in Table 44 along with a list of four letter codes for each species. Gillnet catch data including the date, location, hours and catch by species are summarized in Table 45.

Table 44. List of scientific names, common names, and four letter codes for fish species collected during the present study.

Family and Generic Name	Common Name	Code
Coregonidae		
<i>Coregonus clupeaformis</i>	lake whitefish	LKWT
<i>Coregonus zenithicus</i>	shortjaw cisco	SJCS
<i>Prosopium williamsoni</i>	mountain whitefish	MTWT
Thymallidae		
<i>Thymallus arcticus</i>	Arctic grayling	GRAY
Hiodontidae		
<i>Hiodon alosoides</i>	goldeye	GOLD
Esocidae		
<i>Esox lucius</i>	northern pike	PIKE
Cyprinidae		
<i>Rhinichthys cataractae</i>	longnose dace	LNDC
<i>Platygobio gracilis</i>	flathead chub	FHCB
<i>Couesius plumbeus</i>	lake chub	LKCB
<i>Semotilus margarita</i>	pearl dace	PLDC
<i>Chrosomus neogaeus</i>	finescale dace	FSDC
<i>Pimephales promelas</i>	fathead minnow	FHMN
<i>Notropis hudsonius</i>	spottail shiner	SPSH
Catostomidae		
<i>Catostomus catostomus</i>	longnose sucker	LNSK
<i>Catostomus commersoni</i>	white sucker	WTSK
Percopsidae		
<i>Percopsis omiscomaycus</i>	trout-perch	TRPH
Gadidae		
<i>Lota lota</i>	burbot	BURB
Gasterosteidae		
<i>Culaea inconstans</i>	brook stickleback	BKST
Percidae		
<i>Perca flavescens</i>	yellow perch	YWPH
	walleye	WALL
Cottidae		
<i>Cottus cognatus</i>	slimy sculpin	SLSC
<i>Cottus ricei</i>	spoonhead sculpin	SPSC

Table 45. Gillnet catches in the study area, 1 May to 18 October 1978. Unbracketed figures are catch per hour multiplied by 100. Bracketed numbers are actual catches.

Date	Location	Effort (hours)	Total Catch	Catch Per Unit Effort X 100 (N)											
				S.JCS	MTWT	GRAY	GOLD	PIKE	FHCB	PLDC	LNSK	WTSK	BURB	WALL	
<u>Christina River 5 May to 14 May</u>															
May	5	1	2.0	200.0(4)	0	0	0	0	150.0(3)	0	0	50.0(1)	0	0	0
May	7	8	22.5	26.6(6)	0	0	0	0	22.2(5)	0	0	44.0(1)	0	0	0
May	8	2	18.5	43.2(8)	0	0	0	0	5.4(1)	0	0	37.8(7)	0	0	0
May	8	3	20.0	35.0(7)	0	0	0	0	0	0	0	35.0(7)	0	0	0
May	8	4	20.0	120.0(24)	0	0	0	0	0	0	0	55.0(11)	60.0(12)	5.0(1)	0
May	10	2	2.0	300.0(6)	0	0	0	0	300.0(6)	0	0	0	0	0	0
May	10	4	4.5	155.5(7)		22.2(1)	0	0	0	0	0	0	133.3(6)	0	0
May	10	6	2.5	400.0(10)	0	0	0	0	400.0(10)	0	0	0	0	0	0
May	10	8	3.5	199.6(7)	0	0	0	0	142.8(5)	0	0	28.5(1)	28.3(1)	0	0
May	14	2	3.0	566.6(17)	0	0	0	133.3(4)	400.0(12)	0	0	0	0	0	33.3(1)
May	14	3	3.0	366.6(11)	0	0	0	0	166.6(5)	0	0	133.3(4)	66.7(2)	0	0
May	14	4	3.0	233.3(7)	0	0	0	0	0	0	0	66.7(2)	166.6(5)	0	0
May	14	5	2.0	100.0(2)	0	0	0	0	0	0	0	50.0(1)	50.0(1)	0	0
May	14	6	1.5	599.9(9)	0	0	0	0	599.9(9)	0	0	0	0	0	0
May	14	8	1.0	600.0(6)	0	0	0	0	400.0(4)	0	0	100.0(1)	100.0(1)	0	0
Total		109.0	120.2(131)	0	0.9(1)	0	3.7(4)	55.0(60)	0	0	33.0(36)	25.7(28)	0.9(1)	0.9(1)	
<u>Christina River 27 May to 15 June</u>															
May	27	1	2.5	80.0(2)	0	0	0	40.0(1)	40.0(1)	0	0	0	0	0	0
June	8	1	24.5	16.3(4)	0	0	0	0	12.2(3)	0	0	0	0	0	4.1(1)
June	15	1	20.0	50.0(10)	0	0	0	5.0(1)	25.0(5)	0	0	5.0(1)	0	0	15.0(3)
June	15	2	25.0	104.0(26)	0	0	0	48.0(12)	0	24.0(6)	0	0	8.0(2)	0	24.0(6)
June	15	3	25.0	56.0(14)	0	0	0	0	44.0(11)	0	0	0	8.0(2)	0	4.0(1)
June	15	4	25.0	560.0(14)	0	0	0	12.0(3)	24.0(6)	4.0(1)	0	8.0(2)	4.0(1)	0	4.0(1)
Total		122.0	57.3(70)	0	0	0	13.9(17)	21.3(26)	5.7(7)	0.0(0)	2.5(3)	4.1(5)	0	9.8(12)	

Continued...

Table 45. Continued.

Date	Location	Effort (hours)	Total Catch	Catch Per Unit Effort X 100 (N)										
				SJCS	MTWT	GRAY	GOLD	PIKE	FHCB	PLDC	LNSK	WTSK	BURB	WALL
<u>Christina River 14 August</u>														
Aug. 14	1	19.0	26.3(6)	0	0	0	10.5(2)	15.8(3)	0	0	0	0	0	5.3(1)
Aug. 14	2	19.0	57.9(11)	0	0	0	15.8(3)	36.8(7)	0	0	0	5.3(1)	0	0
Aug. 14	3	19.0	15.9(3)	0	0	0	0	5.3(1)	0	0	5.3(1)	5.3(1)	0	0
Aug. 14	4	19.0	42.2(8)	0	0	0	15.8(3)	53.1(1)	0	0	0	15.8(3)	0	5.3(1)
Total		76.0	36.8(28)	0	0	0	10.5(8)	15.8(12)	0	0	1.3(1)	6.6(5)	0	2.6(2)
<u>Christina River 13 October to 14 October</u>														
Oct 13	1	25.0	8.0(2)	0	0	0	0	8.0(2)	0	0	0	0	0	0
Oct 13	2	26.5	15.1(4)	0	0	3.8(1)	0	11.3(3)	0	0	0	0	0	0
Oct 13	3	26.5	3.8(1)	0	0	0	0	3.8(1)	0	0	0	0	0	0
Oct 14	4	18.0	16.5(3)	0	0	5.5(1)	0	5.5(1)	0	0	0	5.5(1)	0	0
Total		96.0	10.4(10)	0	0	2.1(2)	0	7.3(7)	0	0	0	1.0(1)	0	0
Total - Christina River		403.0	59.1(239)	0	0.2(1)	0.5(2)	7.2(29)	26.0(105)	1.7(7)	0	9.9(40)	9.7(39)	0.2(1)	3.7(15)
<u>Gregoire River 19 May</u>														
May 19	1	5.5	18.2(1)	0	0	0	0	0	0	0	18.2(1)	0	0	0
May 19	3	4.0	125.0(5)	0	0	0	0	0	0	0	100.0(4)	25.0(1)	0	0
May 19	4	3.0	233.4(7)	0	0	0	0	66.7(2)	0	0	100.0(3)	66.7(2)	0	0
Total		12.5	104.0(13)	0	0	0	0	16.0(2)	0	0	64.0(8)	24.0(3)	0	0
<u>Gregoire River 15 June to 16 June</u>														
June 15	1	25.5	35.2(9)	0	0	3.9(1)	0	7.8(2)	0	0	23.5(6)	0	0	0
June 16	3	16.5	42.4(7)	0	0	0	0	0	0	0	12.1(2)	0	0	30.3(5)
June 16	4	18.5	32.4(6)	0	0	0	0	0	0	0	27.0(5)	5.4(1)	0	0
Total		60.5	36.5(22)	0	0	1.7(1)	0	3.3(2)	0	0	21.5(13)	1.7(1)	0	8.2(5)

Continued...

Table 45. Continued.

Date	Location	Effort (hours)	Total Catch	Catch Per Unit Effort X 100 (N)											
				SJCS	MTWF	GRAY	GOLD	PKR	FHCB	PLDC	LNSK	WTSK	BURB	WALL	
<u>Gregoire River</u>		<u>17 August</u>													
Aug 17	1	24.5	12.3(3)	0	0	0	0	4.1(1)	0	0	0	8.2(2)	0	0	
Aug 17	2	23.0	8.6(2)	0	0	0	0	4.3(1)	0	0	4.3(1)	0	0	0	
Aug 17	3	22.5	0.0(0)	0	0	0	0	0	0	0	0	0	0	0	
Aug 17	4	20.5	9.8(2)	0	0	0	0	0	0	0	4.9(1)	4.9(1)	0	0	
Total		90.5	7.7(7)	0	0	0	0	2.2(2)	0	0	2.2(2)	3.3(3)	0	0	
<u>Gregoire River</u>		<u>14 October to 15 October</u>													
Oct 14	1	18.0	0.0(0)	0	0	0	0	0	0	0	0	0	0	0	
Oct 14	2	20.0	75.5(15)	0	0	25.0(5)	0	50.0(10)	0	0	0	0	0	0	
Oct 15	3	26.5	18.8(5)	0	0	11.3(3)	0	7.5(2)	0	0	0	0	0	0	
Oct 15	4	24.0	0.0(0)	0	0	0	0	0	0	0	0	0	0	0	
Total		88.5	22.5(20)	0	0	9.0(8)	0	13.6(12)	0	0	0	0	0	0	
Total Gregoire River		252.0	24.6(62)	0	0	3.6(9)	0	7.1(18)	0	0	9.1(23)	2.8(7)	0	2.0(5)	
<u>Hangingsstone River</u>		<u>1 May to 9 May</u>													
May 1	1	18.0	0.0(0)	0	0	0	0	0	0	0	0	0	0	0	
May 4	6	22.0	0.0(0)	0	0	0	0	0	0	0	0	0	0	0	
May 9	2	20.0	0.0(0)	0	0	0	0	0	0	0	0	0	0	0	
May 9	4	20.0	5.0(1)	0	0	0	0	0	0	0	5.0(1)	0	0	0	
Total		80.0	1.3(1)	0	0	0	0	0	0	0	1.3(1)	0	0	0	
<u>Hangingsstone River</u>		<u>12 June to 20 June</u>													
June 12	1	22.0	0.0(0)	0	0	0	0	0	0	0	0	0	0	0	
June 20	4	5.0	20.0(1)	0	0	0	0	0	0	0	20.0(1)	0	0	0	
June 20	7	22.0	0.0(0)	0	0	0	0	0	0	0	0	0	0	0	
June 20	10	6.0	16.7(1)	0	0	0	0	16.7(1)	0	0	0	0	0	0	

Continued...

Table 45. Concluded.

Date	Location	Effort (hours)	Total Catch	Catch Per Unit Effort X 100 (N)											
				SJSC	MTWT	GRAY	GOLD	PIKE	FICB	PLDC	LNSK	WTSK	BORB	WALL	
Total		55.0	3.6(2)	0	0	0	0	1.8(1)	0	0	1.8(1)	0	0	0	
<u>Hangingsstone River</u>		<u>12 August to 19 August</u>													
Aug 12	1	20.0	20.0(4)	0	0	0	0	0	0	0	20.0(4)	0	0	0	
Aug 19	2	20.0	0.0(0)	0	0	0	0	0	0	0	0	0	0	0	
Aug 19	3	20.5	29.3(6)	0	4.9(1)	0	0	0	0	0	24.4(5)	0	0	0	
Aug 19	4	22.5	31.1(7)	0	0	8.9(2)	0	0	0	0	8.9(2)	13.3(3)	0	0	
Total		83.0	20.4(17)	0	1.2(1)	2.4(2)	0	0	0	0	13.2(11)	3.6(3)	0	0	
<u>Hangingsstone River</u>		<u>8 October to 18 October</u>													
Oct 8	1	8.0	0.0(0)	0	0	0	0	0	0	0	0	0	0	0	
Oct 18	3	19.0	15.8(3)	0	0	15.8(3)	0	0	0	0	0	0	0	0	
Oct 18	4	17.5	0.0(0)	0	0	0	0	0	0	0	0	0	0	0	
Oct 18	5	17.0	0.0(0)	0	0	0	0	0	0	0	0	0	0	0	
Total		61.5	4.9(3)	0	0	4.9(3)	0	0	0	0	0	0	0	0	
Total Hangingsstone	River	279.5	8.3(23)	0	0.4(1)	1.8(5)	0	0.4(1)	0	0	4.6(13)	1.1(3)	0	0	
<u>Horse River</u>		<u>15 May to 7 October</u>													
May 15	1	4.0	100.0(4)	0	0	0	0	0	0	0	50.0(2)	0	0	50.0(2)	
May 18	1	6.5	0.0(0)	0	0	0	0	0	0	0	0	0	0	0	
May 25	1	4.0	0.0(0)	0	0	0	0	0	0	0	0	0	0	0	
June 23	1	23.0	160.9(37)	0	0	0	82.6(19)	4.3(1)	21.7(5)	0	8.7(2)	0	0	43.5(10)	
Aug 13	1	24.0	29.2(7)	0	0	0	8.3(2)	4.2(1)	0	0	4.2(1)	4.2(1)	0	8.3(2)	
Oct 7	1	19.5	15.4(3)	0	0	5.1(1)	0	5.1(1)	0	0	5.1(1)	0	0	0	
Total		81.0	62.9(51)	0	0	1.2(1)	25.9(21)	3.7(3)	6.2(5)	7.0(6)	7.4(6)	1.2(1)	0	17.3(14)	
<u>Algar Lake</u>		<u>23 August</u>													
Aug 23	1	24.0	200.0(48)	0	0	0	0	0	0	200.0(48)	0	0	0	0	
<u>Gregoire Lake</u>		<u>23 August</u>													
Aug 23	5	24.0	117.7(28)	66.7(16)	0	0	0	8.3(2)	0	0	0	0	0	41.7(10)	

C. SUMMARY OF MINNOW SEINE CATCHES

Minnow seine catches for tributary streams in the AOSERP study area south of Fort McMurray are given in Table 46. The data include a summary of sampling dates, locations, number of seine hauls, the length of shoreline seined, and the catch by species.

Table 46. Seine catches in the present study area, 3 May to 18 October 1978. Unbracketed figures are catch per metre of shore seined multiplied by 100. Bracketed numbers are actual catches.

Date	Location	Number of Hauls	Distance (m)	Total Catch	Catch Per Metre of Shore Seined X 100 (N)				
					LKWT	MIWT	GRAY	PIKE	LNDC
<u>Algar River 21 August</u>									
Aug 21	1	6	53	184.9(98)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	3.8(2)
Aug 21	2	dipnet			0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Aug 21	3	dipnet			0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Total									
<u>Algar River</u>		6	53	184.9(98)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	3.8(2)
(seine hauls only)									
<u>Christina River 5 May to 10 May</u>									
May 5	1	3	25	380(95)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	10.4(26)
May 8	2	3	32	143.8(46)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	46.9(15)
May 8	3	3	23	269.6(62)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
May 8	4	3	30	6.7(2)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
May 8	5	3	37	403(149)	0.0(0)	0.0(0)	0.0(0)	8.1(3)	27.0(10)
May 8	6	3	60	158.3(95)	0.0(0)	0.0(0)	0.0(0)	5.0(3)	40.0(24)
May 10	7	2	20	270.0(54)	0.0(0)	0.0(0)	0.0(0)	270.4(54)	0.0(0)
Total									
		20	227	221.6(503)	0.0(0)	0.0(0)	0.0(0)	26.9(60)	33.0(75)
<u>Christina River 13 June to 21 June</u>									
June 13	1	8	103	381.6(393)	1.9(2)	0.0(0)	0.0(0)	0.0(0)	32.0(33)
June 13	2	4	80	208.8(167)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	16.3(13)
June 13	3	3	60	248.3(149)	0.0(0)	0.0(0)	0.0(0)	1.7(1)	25.0(15)
June 13	4	2	30	270.0(81)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	3.3(1)
June 21	1	3	20	80.0(16)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	20.0(4)
Total									
		20	293	275.1(806)	0.7(2)	0.0(0)	0.0(0)	0.3(1)	22.5(66)
<u>Christina River 13 August to 14 August</u>									
Aug 13	1	7	97	121.7(118)	0.0(0)	0.0(0)	0.0(0)	2.1(2)	30.9(30)
Aug 13	2	5	60	91.7(55)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	25.0(15)

Continued...

Table 46. Continued.

Date	Location	Number of hauls	Distance (m)	Total Catch	Catch Per Metre of Shore Seined X 100 (N)				
					LKWT	MTWT	GRAY	PIKE	LNDC
Aug 13	3	4	78	168.0(131)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	15.4(12)
Aug 14	4	4	42	9.5(4)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Total		20	277	111.2(308)	0.0(0)	0.0(0)	0.0(0)	0.7(2)	20.6(57)
<u>Christina River 14 October</u>									
Oct 14	1	4	60	61.7(37)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	5.0(3)
Oct 14	2	6	69	13.0(9)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Oct 14	3	6	72	38.9(28)	0.0(0)	2.8(2)	0.0(0)	0.0(0)	5.6(4)
Oct 14	4	5	61	11.5(7)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Total		21	262	30.9(81)	0.0(0)	0.0(0)	0.8(2)	0.0(0)	2.7(7)
Total Christina River		81	1059	160.3(1698)	0.2(2)	0.0(0)	0.2(2)	5.9(63)	19.3(205)
<u>Gregoire River 19 May</u>									
May 19	1	3	16	206.3(33)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	6.3(1)
May 19	3	3	17	35.3(6)	0.0(0)	0.0(0)	0.0(0)	5.9(1)	0.0(0)
Total		6	33	118.2(39)	0.0(0)	0.0(0)	0.0(0)	3.0(1)	3.0(1)
<u>Gregoire River 13 June to 15 June</u>									
June 13	1	3	21	285.7(60)	0.0(0)	0.0(0)	23.8(5)	0.0(0)	0.0(0)
June 13	3	2	32	171.9(55)	0.0(0)	0.0(0)	12.5(4)	3.1(1)	0.0(0)
June 15	4	2	26	176.9(46)	0.0(0)	0.0(0)	19.2(5)	0.4(1)	0.0(0)
Total		7	79	203.8(161)	0.0(0)	0.0(0)	17.7(14)	25(2)	0.0(0)
<u>Gregoire River 16 August</u>									
Aug 16	1	4	35	477.1(167)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	111.4(39)
Aug 16	2	3	35	625.7(219)	0.0(0)	0.0(0)	2.9(1)	0.0(0)	117.1(41)
Aug 16	3	3	35	620.0(217)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	94.3(33)
Aug 16	4	5	65	38.5(25)	0.0(0)	0.0(0)	1.5(1)	7.7(5)	0.0(0)
Aug 16	5	5	100	5.0(5)	0.0(0)	0.0(0)	0.0(0)	1.0(1)	0.0(0)
Total		20	270	234.4(633)	0.0(0)	0.0(0)	0.7(2)	2.2(6)	41.8(113)

Continued...

Table 46. Continued.

Date	Location	Number of Hauls	Distance (m)	Total Catch	Catch Per Metre of Shore Seined X 100 (N)				
					LKWT	MTWT	GRAY	PIKE	LNOC
<u>Gregoire River 14 October</u>									
Oct 14	1	4	29	737.9(214)	0.0(0)	0.0(0)	3.4(1)	0.0(0)	0.0(0)
Oct 14	2	3	60	401.7(241)	0.0(0)	0.0(0)	1.7(1)	0.0(0)	13.3(8)
Oct 14	3	3	23	800(184)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Oct 14	4	3	33	12.1(4)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Total		13	145	443.5(643)	0.0(0)	0.0(0)	1.4(2)	0.0(0)	5.5(8)
Total Gregoire River		46	527	280.1(1476)	0.0(0)	0.0(0)	3.4(18)	1.7(9)	23.1(122)
<u>Hangingsstone River 3 May to 14 May</u>									
May 3	6	4	70	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
May 9	2	6	55	52.7(29)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
May 9	4	6	57	26.3(15)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
May 9	5	4	42	9.5(4)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
May 9	6	4	52	38.5(20)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
May 9	7	8	100	2.0(2)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
May 14	8	2	30	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Total		34	406	17.2(70)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
<u>Hangingsstone River 12 June to 19 June</u>									
June 12	1	5	85	56.5(48)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
June 16	7	4	40	35.0(14)	0.0(0)	0.0(0)	17.5(7)	0.0(0)	0.0(0)
June 19	3	4	36	66.7(24)	0.0(0)	0.0(0)	5.6(2)	0.0(0)	0.0(0)
June 19	5	5	39	100.0(39)	0.0(0)	0.0(0)	25.6(10)	0.0(0)	0.0(0)
June 19	6	9	99	11.1(11)	0.0(0)	0.0(0)	5.1(5)	0.0(0)	0.0(0)
June 19	8	3	25	8.0(2)	0.0(0)	0.0(0)	4.0(1)	0.0(0)	0.0(0)
June 16	8	4	48	33.3(16)	0.0(0)	0.0(0)	10.4(5)	0.0(0)	0.0(0)
Total		34	372	41.4(154)	0.0(0)	0.0(0)	8.1(30)	0.0(0)	0.0(0)
<u>Hangingsstone River 12 August to 19 August</u>									
Aug 12	1	5	85	178.8(152)	0.0(0)	0.0(0)	1.2(1)	0.0(0)	47.1(40)
Aug 17	7	8	105	75.2(79)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Aug 17	8	7	70	242.9(170)	0.0(0)	0.0(0)	2.9(2)	0.0(0)	0.0(0)

Continued...

Table 46. Continued.

Date	Location Site No.	Number of Hauls	Distance (m)	Total Catch	Catch Per Metre of Shore Seined X 100 (N)				
					LKWT	MTWT	GRAY	PIKE	LNDC
Aug 17	9	5	95	12.6(12)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Aug 19	2	4	50	180.0(90)	0.0(0)	0.0(0)	4.0(2)	0.0(0)	54.0(27)
Aug 19	3	6	100	44.0(44)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	9.0(9)
Aug 19	4	5	57	124.6(71)	0.0(0)	0.0(0)	7.0(4)	0.0(0)	3.5(2)
Aug 19	5	8	130	21.5(28)	0.0(0)	0.0(0)	0.8(1)	0.0(0)	0.8(1)
Total		48	692	93.4(646)	0.0(0)	0.0(0)	1.4(10)	0.0(10)	11.4(79)
<u>Hangingsstone River 9 October to 18 October</u>									
Oct 9	1	13	138	20.3(28)	0.0(0)	0.0(0)	2.9(4)	0.7(1)	0.0(0)
Oct 11	6	7	63	177.8(112)	0.0(0)	0.0(0)	1.6(1)	0.0(0)	0.0(0)
Oct 14	10	3	35	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Oct 17	5	5	58	22.4(13)	0.0(0)	0.0(0)	1.7(1)	0.0(0)	0.0(0)
Oct 17	8	6	45	215.6(97)	0.0(0)	0.0(0)	6.7(3)	0.0(0)	0.0(0)
Oct 17	9	5	47	110.6(52)	0.0(0)	0.0(0)	4.3(2)	0.0(0)	0.0(0)
Oct 18	2	6	62	21.0(13)	0.0(0)	0.0(0)	4.8(3)	0.0(0)	0.0(0)
Oct 18	3	6	70	18.6(13)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Oct 18	4	5	38	44.7(17)	0.0(0)	0.0(0)	2.6(1)	0.0(0)	0.0(0)
Total		56	556	62.1(345)	0.0(0)	0.0(0)	2.7(15)	0.2(1)	0.0(0)
Total Hangingsstone River		172	2026	60.0(1215)	0.0(0)	0.0(0)	2.7(55)	0.1(1)	3.9(79)
<u>Horse River 8 June to 9 October</u>									
June 8	1	3	32	450(144)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	56.3(18)
Aug 12	1	3	38	81.6(31)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Aug 21	2	3	60	155(93)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	11.67(7)
Aug 21	3	3	75	130.7(98)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Aug 21	4	5	62	241.9(150)	0.0(0)	0.0(0)	9.7(6)	0.0(0)	0.0(0)
Oct 9	1	5	36	25.0(9)	0.0(0)	0.0(0)	5.6(2)	0.0(0)	0.0(0)
Total Horse River		22	303	173.3(525)	0.0(0)	0.0(0)	2.6(8)	0.0(0)	8.2(25)
<u>Saline Creek 3 May to 9 October</u>									
May 3	1	3	45	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)

Continued...

Table 46. Continued.

Date	Location	Number of Hauls	Distance (m)	Total Catch	Catch Per Metre of Shore Seined X 100 (N)				
					LKWT	MTWT	GRAY	PIKE	LNDC
June 12	1	3	60	13.3(8)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Aug 12	1	4	40	115.0(46)	0.0(0)	0.0(0)	37.5(15)	0.0(0)	0.0(0)
Aug 12	3	4	40	25.3(101)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Oct 9	1	3	45	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Oct 9	2	5	41	29.3(12)	0.0(0)	0.0(0)	29.3(12)	0.0(0)	0.0(0)
Total Saline Creek		22	271	61.6(167)	0.0(0)	0.0(0)	10.0(27)	0.0(0)	0.0(0)
<u>Saprae Creek 20 August</u>									
Aug 20	1	3	40	52.5(21)	0.0(0)	0.0(0)	37.5(5)	0.0(0)	0.0(0)
Aug 20	2	5	25	116.0(29)	0.0(0)	0.0(0)	116.0(29)	0.0(0)	0.0(0)
Aug 20	3	5	100	11.0(11)	0.0(0)	0.0(0)	9.0(9)	0.0(0)	0.0(0)
Total Saprae Creek		13	165	37.0(61)	0.0(0)	0.0(0)	32.1(53)	0.0(0)	0.0(0)
<u>Surmont Creek 19 May to 14 October</u>									
May 19	2	4	55	1.8(1)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
June 16	2	4	40	7.5(3)	0.0(0)	0.0(0)	2.5(1)	0.0(0)	0.0(0)
Aug 17	2	7	55	80.0(44)	0.0(0)	0.0(0)	54.5(30)	0.0(0)	0.0(0)
Aug 21	1	3	60	48.3(29)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Aug 21	3	3	35	362.9(127)	0.0(0)	0.0(0)	331.4(116)	0.0(0)	0.0(0)
Oct 14	2	5	77	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Total Surmont Creek		26	322	63.3(204)	0.0(0)	0.0(0)	45.6(147)	0.0(0)	0.0(0)
<u>Algar Lake 21 August</u>									
Aug 21	1	4	100	6.0(6)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
<u>Gregoire Lake 16 August to 21 August</u>									
Aug 16	1	4	150	6.7(10)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Aug 16	3	5	125	3.2(4)	0.0(0)	0.0(0)	0.0(0)	1.6(2)	0.0(0)
Aug 21	2	2	70	444.3(311)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Aug 21	4	2	30	169.7(509)	0.0(0)	0.0(0)	0.0(0)	3.3(1)	0.0(0)
Total Gregoire Lake		13	375	222.4(834)	0.0(0)	0.0(0)	0.0(0)	0.8(3)	0.0(0)

Continued...

Table 46. Continued.

Date	Location	Number of Hauls	Distance (m)	Total Catch	Catch Per Metre of Shore Seined X 100 (N)				
					FHCB	LKCB	PLDC	FSDC	FINN
<u>Algar River 21 August</u>									
Aug 21	1	6	53	184.9(98)	0.0(0)	7.6(4)	120.7(64)	0.0(0)	0.0(0)
Aug 21	2	dipnet	0	0.0(0)	0.0(0)	0.0(0)	(+)	0.0(0)	0.0(0)
Aug 21	3	dipnet	0	0.0(0)	0.0(0)	0.0(0)	(+)	0.0(0)	0.0(0)
Total Algar River		6	53	184.9(98)	0.0(0)	7.6(4)	120.7(64)	0.0(0)	0.0(0)
<u>Christina River 5 May to 10 May</u>									
May 5	1	3	25	380.0(95)	0.0(0)	88.0(22)	0.0(0)	4.1(1)	0.0(0)
May 8	2	3	32	143.8(46)	0.0(0)	71.9(23)	0.0(0)	0.0(0)	0.0(0)
May 8	3	3	23	269.6(62)	0.0(0)	134.8(31)	0.0(0)	0.0(0)	0.0(0)
May 8	4	3	30	6.7(2)	0.0(0)	6.7(2)	0.0(0)	0.0(0)	0.0(0)
May 8	5	3	37	403.0(149)	0.0(0)	62.2(23)	0.0(0)	0.0(0)	0.0(0)
May 8	6	3	60	158.3(95)	0.0(0)	21.7(13)	0.0(0)	0.0(0)	0.0(0)
May 10	7	2	20	270.0(54)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Total		20	227	221.6(503)	0.0(0)	50.2(114)	0.0(0)	0.4(1)	0.0(0)
<u>Christina River 13 June to 21 June</u>									
June 13	1	8	103	381.6(393)	0.0(0)	28.2(29)	0.0(0)	0.0(0)	0.0(0)
June 13	2	4	80	208.8(167)	0.0(0)	63.8(51)	0.0(0)	0.0(0)	0.0(0)
June 13	3	3	60	248.3(149)	1.7(1)	61.7(37)	0.0(0)	0.0(0)	0.0(0)
June 13	4	2	30	270.0(81)	0.0(0)	3.3(1)	0.0(0)	0.0(0)	0.0(0)
June 21	1	3	20	80.0(16)	0.0(0)	5.0(1)	5.0(1)	0.0(0)	0.0(0)
Total		20	293	275.1(806)	0.3(1)	40.6(119)	0.3(1)	0.0(0)	0.0(0)
<u>Christina River 13 August to 14 August</u>									
Aug 13	1	7	97	121.7(118)	0.0(0)	8.2(8)	0.0(0)	0.0(0)	0.0(0)
Aug 13	2	5	60	91.7(55)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Aug 13	3	4	78	168.0(131)	0.0(0)	16.7(13)	0.0(0)	0.0(0)	0.0(0)
Aug 14	4	4	42	9.5(4)	0.0(0)	2.4(1)	0.0(0)	0.0(0)	0.0(0)
Total		20	277	111.2(308)	0.0(0)	7.9(22)	0.0(0)	0.0(0)	0.0(0)

Continued...

Table 46. Continued.

Date	Location	Number of Hauls	Distance (m)	Total Catch	Catch Per Metre of Shore Seined X 100 (N)				
					FICR	LKCB	PLDC	FSDC	FHMN
<u>Christina River 14 October</u>									
Oct 14	1	4	60	61.7(37)	0.0(0)	13.3(8)	1.7(1)	0.0(0)	0.0(0)
Oct 14	2	6	69	13.0(9)	0.0(0)	1.4(1)	0.0(0)	0.0(0)	0.0(0)
Oct 14	3	6	72	38.9(28)	0.0(0)	13.9(10)	0.0(0)	0.0(0)	0.0(0)
Oct 14	4	5	61	11.5(7)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Total		21	262	30.9(81)	0.0(0)	7.2(19)	0.4(1)	0.0(0)	0.0(0)
Total Christina River		81	1059	160.3(1698)	0.1(1)	25.9(274)	0.2(2)	0.1(1)	0.0(0)
<u>Gregoire River 19 May</u>									
May 19	1	3	16	206.3(33)	0.0(0)	168.8(27)	0.0(0)	0.0(0)	0.0(0)
May 19	3	3	17	35.3(6)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Total		6	33	118.2(39)	0.0(0)	81.8(27)	0.0(0)	0.0(0)	0.0(0)
<u>Gregoire River 13 June to 15 June</u>									
June 13	1	3	21	285.7(60)	0.0(0)	14.3(3)	0.0(0)	0.0(0)	0.0(0)
June 13	3	2	32	171.9(55)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
June 15	4	2	26	176.9(46)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Total		7	79	203.8(161)	0.0(0)	3.8(3)	0.0(0)	0.0(0)	0.0(0)
<u>Gregoire River 16 August</u>									
Aug 16	2	3	35	625.7(219)	0.0(0)	274.3(96)	2.9(1)	0.0(0)	0.0(0)
Aug 16	3	3	35	620.0(217)	0.0(0)	314.3(110)	14.3(5)	0.0(0)	0.0(0)
Aug 16	4	5	65	38.5(25)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Aug 16	5	5	100	5.0(5)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Aug 16	1	4	35	477.1(167)	0.0(0)	372.9(113)	0.0(0)	0.0(0)	0.0(0)
Total		20	270	234.4(633)	0.0(0)	118.1(319)	2.2(6)	0.0(0)	0.0(0)
<u>Gregoire River 14 October</u>									
Oct 14	1	4	29	737.9(214)	0.0(0)	420.7(122)	0.0(0)	0.0(0)	0.0(0)
Oct 14	2	3	60	401.7(241)	0.0(0)	0.0(0)	65.0(39)	0.0(0)	0.0(0)
Oct 14	3	3	23	800.0(184)	0.0(0)	0.0(0)	60.9(14)	0.0(0)	0.0(0)
Oct 14	4	3	33	12.1(4)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)

Continued...

Table 46. Continued.

Date	Location	Number of Hauls	Distance (m)	Total Catch	Catch Per Metre of Shore Seined X 100 (N)				
					FIICB	LKCB	PLDC	FSDC	FHMN
Total		13	145	443.5(643)	0.0(0)	84.1(122)	36.5(53)	0.0(0)	0.0(0)
Total Gregoire River		46	527	280.1(1476)	0.0(0)	89.3(471)	11.2(59)	0.0(0)	0.0(0)
<u>Hangingsstone River 3 May to 14 May</u>									
May 3	6	4	70	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
May 9	2	6	55	52.7(29)	0.0(0)	45.5(25)	0.0(0)	0.0(0)	0.0(0)
May 9	4	6	57	26.3(15)	0.0(0)	15.8(9)	0.0(0)	0.0(0)	0.0(0)
May 9	5	4	42	9.5(4)	0.0(0)	2.4(1)	0.0(0)	0.0(0)	0.0(0)
May 9	6	4	52	38.5(20)	0.0(0)	25.0(13)	0.0(0)	0.0(0)	0.0(0)
May 9	7	8	100	2.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
May 14	8	2	30	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Total		34	406	17.2(70)	0.0(0)	11.8(48)	0.0(0)	0.0(0)	0.0(0)
<u>Hangingsstone River 12 June to 19 June</u>									
June 12	1	5	85	56.5(48)	0.0(0)	42.4(36)	0.0(0)	0.0(0)	0.0(0)
June 16	7	4	40	35.0(14)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
June 19	3	4	36	66.7(24)	0.0(0)	30.6(11)	0.0(0)	0.0(0)	0.0(0)
June 19	5	5	39	100.0(39)	0.0(0)	38.5(15)	0.0(0)	0.0(0)	0.0(0)
June 19	6	9	99	11.1(11)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
June 19	8	3	25	8.0(2)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
June 16	8	4	48	33.3(16)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Total		34	372	41.4(154)	0.0(0)	16.7(62)	0.0(0)	0.0(0)	0.0(0)
<u>Hangingsstone River 12 August to 19 August</u>									
Aug 12	1	5	85	178.8(152)	0.0(0)	40.0(34)	0.0(0)	0.0(0)	0.0(0)
Aug 17	7	8	105	75.2(79)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Aug 17	8	7	70	242.9(170)	0.0(0)	0.0(0)	7.1(5)	0.0(0)	0.0(0)
Aug 17	9	5	95	12.6(12)	0.0(0)	0.0(0)	1.1(1)	0.0(0)	0.0(0)
Aug 19	2	4	50	180.0(90)	0.0(0)	56.0(28)	0.0(0)	0.0(0)	0.0(0)
Aug 19	3	6	100	44.0(44)	0.0(0)	14.0(14)	0.0(0)	0.0(0)	0.0(0)
Aug 19	4	5	57	124.6(71)	0.0(0)	21.1(12)	0.0(0)	0.0(0)	0.0(0)
Aug 19	5	8	130	21.5(28)	0.0(0)	0.0(0)	1.5(2)	0.0(0)	0.0(0)
Total		48	692	93.4(646)	0.0(0)	12.7(88)	1.1(8)	0.0(0)	0.0(0)

Continued...

Table 46. Continued.

Date	Location	Number of Hauls	Distance (m)	Total Catch	Catch Per Metre of Shore Seined X 100 (N)					
					FHCB	LKCB	PLDC	FSDC	FHMN	
<u>Hangingsstone River 9 October to 18 October</u>										
Oct 9	1	13	138	20.3(28)	0.0(0)	5.8(8)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Oct 11	6	7	63	177.8(112)	0.0(0)	0.0(0)	39.7(25)	0.0(0)	0.0(0)	0.0(0)
Oct 14	10	3	35	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Oct 17	5	5	58	22.4(13)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Oct 17	8	6	45	215.6(97)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Oct 17	9	5	47	110.6(52)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Oct 18	2	6	62	21.0(13)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Oct 18	3	6	70	18.6(13)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Oct 18	4	5	38	44.7(17)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Total		56	556	62.1(345)	0.0(0)	1.4(8)	4.5(25)	0.0(0)	0.0(0)	0.0(0)
Total Hangingsstone River		172	2026	60.0(1215)	0.0(0)	10.1(206)	1.6(33)	0.0(0)	0.0(0)	0.0(0)
<u>Horse River 8 June to 9 October</u>										
June 8	1	3	32	450.0(144)	0.0(0)	109.4(35)	0.0(0)	0.0(0)	271.9(87)	0.0(0)
Aug 12	1	3	38	81.6(31)	0.0(0)	2.6(1)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Aug 21	2	3	60	155.0(93)	0.0(0)	111.7(67)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Aug 21	3	3	75	130.7(98)	0.0(0)	76.0(57)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Aug 21	4	5	62	241.9(150)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Oct 9	1	5	36	25.0(9)	0.0(0)	8.3(3)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Total Horse River		22	303	173.3(525)	0.0(0)	53.8(163)	0.0(0)	0.0(0)	28.7(87)	0.0(0)
<u>Saprae Creek 20 August</u>										
Aug 20	1	3	40	52.5(21)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Aug 20	2	5	25	116.0(29)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Aug 20	3	5	100	11.0(11)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Total Saprae Creek		13	165	37.0(61)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
<u>Saline Creek 3 May to 9 October</u>										
May 3	1	3	45	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
June 12	1	3	60	13.3(8)	0.0(0)	11.7(7)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Aug 12	1	4	40	115.0(46)	0.0(0)	20.0(8)	0.0(0)	0.0(0)	0.0(0)	0.0(0)

Continued...

Table 46. Continued.

Date	Location	Number of Hauls	Distance (m)	Total Catch	Catch Per Metre of Shore Seined X 100 (N)				
					FHCB	LKCB	PLDC	FSDC	FHMN
Aug 12	3	4	40	25.3(101)	0.0(0)	17.5(7)	2.5(1)	0.0(0)	0.0(0)
Oct 9	1	3	45	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Oct 9	2	5	41	29.3(12)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Total Saline Creek		22	271	61.6(167)	0.0(0)	8.1(22)	0.4(1)	0.0(0)	0.0(0)
<u>Surmont Creek 19 May to 14 October</u>									
May 19	2	4	55	1.8(1)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
June 16	2	4	40	7.5(3)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Aug 17	2	7	55	80.0(44)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Aug 21	1	3	60	48.3(29)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Aug 21	3	3	35	362.9(127)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Oct 14	2	5	77	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Total Surmont Creek		26	322	63.3(204)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
<u>Algar Lake 21 August</u>									
Aug 21	1	4	100	6.0(6)	0.0(0)	0.0(0)	1.0(1)	0.0(0)	0.0(0)
<u>Gregoire Lake 16 August to 21 August</u>									
Aug 16	1	4	150	6.7(10)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Aug 16	3	5	125	3.2(4)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Aug 21	2	2	70	444.3(311)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Aug 21	4	2	30	169.7(509)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Total Gregoire Lake		13	375	222.4(834)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)

Continued...

Table 46. Continued.

Date	Location	Number of Hauls	Distance (m)	Total Catch	Catch Per Met re of Shore Seined X 100 (N)				
					SPSH	LNSK	WTSK	Sucker fry	BURB
<u>Algar River 21 August</u>									
Aug 21	1	6	53	184.9(98)	0.0(0)	52.8(28)	0.0(0)	0.0(0)	0.0(0)
Aug 21	2	dipnet	0	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Aug 21	3	dipnet	0	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Total Algar River		6	53	184.9(98)	0.0(0)	52.8(28)	0.0(0)	0.0(0)	0.0(0)
<u>Christina River 5 May to 10 May</u>									
May 5	1	3	25	380.0(95)	0.0(0)	184.0(46)	0.0(0)	0.0(0)	0.0(0)
May 8	2	3	32	143.8(46)	0.0(0)	12.5(4)	0.0(0)	0.0(0)	0.0(0)
May 8	3	3	23	269.6(62)	0.0(0)	113.0(26)	0.0(0)	0.0(0)	0.0(0)
May 8	4	3	30	6.7(2)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
May 8	5	3	37	403.0(149)	0.0(0)	245.9(91)	0.0(0)	0.0(0)	0.0(0)
May 8	6	3	60	158.3(95)	0.0(0)	68.3(41)	0.0(0)	0.0(0)	0.0(0)
May 10	7	2	20	270.0(54)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Total		20	227	221.6(503)	0.0(0)	91.6(208)	0.0(0)	0.0(0)	0.0(0)
<u>Christina River 13 June to 21 June</u>									
June 13	1	8	103	3.81.6(393)	0.0(0)	65.0(67)	0.0(0)	>242.7(>250)	0.0(0)
June 13	2	4	80	208.8(167)	0.0(0)	66.3(53)	0.0(0)	>62.5(>50)	0.0(0)
June 13	3	3	60	248.3(149)	0.0(0)	68.3(41)	0.0(0)	>83.3(>50)	0.0(0)
June 13	4	2	30	270.0(81)	0.0(0)	86.7(26)	0.0(0)	>166.2 (>50)	0.0(0)
June 21	1	3	20	80.0(16)	0.0(0)	50.0(10)	0.0(0)	0.0(0)	0.0(0)
Total		20	293	275.1(806)	0.0(0)	67.2(197)	0.0(0)	136.5 (>400)	0.0(0)
<u>Christina River 13 August to 14 August</u>									
Aug 13	1	7	97	121.7(118)	1.0(1)	9.3(9)	0.0(0)	0.0(0)	0.0(0)
Aug 13	2	5	60	91.7(55)	0.0(0)	1.7(1)	0.0(0)	0.0(0)	0.0(0)
Aug 13	3	4	78	168.0(131)	0.0(0)	133.3(104)	0.0(0)	0.0(0)	0.0(0)
Aug 14	4	4	42	9.5(4)	0.0(0)	7.1(3)	0.0(0)	0.0(0)	0.0(0)
Total		20	277	111.2(308)	0.4(1)	42.2(117)	0.0(0)	0.0(0)	0.0(0)

Continued...

Table 46, Continued.

Date	Location	Number of Hauls	Distance (m)	Total Catch	Catch Per Metre of Shore Seined X 100 (N)					
					SPSH	LNSK	WTSK	Sucker fry	BURB	
<u>Christina River 14 October</u>										
Oct	14	1	4	60	61.7(37)	0.0(0)	18.3(11)	5.0(3)	0.0(0)	0.0(0)
Oct	14	2	6	69	13.0(9)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Oct	14	3	6	72	38.9(28)	0.0(0)	6.9(5)	1.4(1)	0.0(0)	0.0(0)
Oct	14	4	5	61	11.5(7)	0.0(0)	4.9(3)	1.6(1)	0.0(0)	0.0(0)
Total			21	262	30.9(81)	0.0(0)	7.2(19)	1.9(5)	0.0(0)	0.0(0)
Total Christina River			81	1059	160.3(1698)	0.1(1)	51.0(541)	0.5(5)	>37.8(>400)	0.0(0)
<u>Gregoire River 19 May</u>										
May	19	1	3	16	206.3(33)	0.0(0)	18.8(3)	0.0(0)	0.0(0)	0.0(0)
May	19	3	3	17	35.3(6)	0.0(0)	29.4(5)	0.0(0)	0.0(0)	0.0(0)
Total			6	33	118.2(39)	0.0(0)	24.2(8)	0.0(0)	0.0(0)	0.0(0)
<u>Gregoire River 13 June to 15 June</u>										
June	13	1	3	21	285.7(60)	0.0(0)	9.5(2)	0.0(0)	>3571.4(>50)	0.0(0)
June	13	3	2	32	171.9(55)	0.0(0)	0.0(0)	0.0(0)	>156.3(>50)	0.0(0)
June	15	4	2	26	176.9(46)	0.0(0)	0.0(0)	0.0(0)	>153.8(>40)	0.0(0)
Total			7	79	203.8(161)	0.0(0)	2.5(2)	0.0(0)	>177.2(>140)	0.0(0)
<u>Gregoire River 16 August</u>										
Aug	16	1	4	35	477.1(167)	0.0(0)	25.7(9)	8.6(13)	0.0(0)	0.0(0)
Aug	16	2	3	35	625.7(219)	0.0(0)	114.3(40)	45.4(16)	0.0(0)	0.0(0)
Aug	16	3	3	35	620.0(217)	0.0(0)	14.3(5)	162.9(57)	0.0(0)	0.0(0)
Aug	16	4	5	65	38.5(25)	0.0(0)	0.0(0)	29.2(19)	0.0(0)	0.0(0)
Aug	16	5	5	100	5.0(5)	3.0(3)	0.0(0)	1.0(1)	0.0(0)	0.0(0)
Total			20	270	234.4(633)	1.1(3)	20.0(54)	35.5(96)	0.0(0)	0.0(0)
<u>Gregoire River 14 October</u>										
Oct	14	1	4	29	737.9(214)	0.0(0)	182.8(53)	117.2(34)	0.0(0)	0.0(0)
Oct	14	2	3	60	401.7(241)	1.7(1)	120.0(72)	131.7(79)	0.0(0)	0.0(0)
Oct	14	3	3	23	800(184)	4.3(1)	400.0(92)	308.7(71)	0.0(0)	0.0(0)

Continued...

Table 46. Continued.

Date	Location	Number of Hauls	Distance (m)	Total Catch	Catch Per Metre Shore Seined X 100 (N)				
					SPSH	LNSK	WTSK	Sucker fry	BURB
Oct 14	4	3	33	12.1(4)	0.0(0)	0.0(0)	6.1(2)	0.0(0)	0.0(0)
Total		13	145	443.5(643)	1.4(2)	149.6(217)	128.3(186)	0.0(0)	0.0(0)
Total Gregoire River		46	527	280.1(1476)	0.9(5)	53.3(281)	53.5(282)	>26.5(>140)	0.0(0)
<u>Hangingsstone River 3 May to 14 May</u>									
May 3	6	4	70	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
May 9	2	6	55	52.7(29)	0.0(0)	5.5(3)	0.0(0)	0.0(0)	0.0(0)
May 9	4	6	57	26.3(15)	0.0(0)	3.5(2)	0.0(0)	0.0(0)	0.0(0)
May 9	5	4	42	9.5(4)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
May 9	6	4	52	38.5(20)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
May 9	7	8	100	2.0(2)	0.0(0)	1.0(1)	0.0(0)	0.0(0)	0.0(0)
May 14	8	2	30	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Total		34	406	17.2(70)	0.0(0)	1.5(6)	0.0(0)	0.0(0)	0.0(0)
<u>Hangingsstone River 12 June to 19 June</u>									
June 12	1	5	85	56.5(48)	0.0(0)	7.1(6)	0.0(0)	0.0(0)	0.0(0)
June 16	7	4	40	35.0(14)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
June 16	8	4	48	33.3(16)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
June 19	3	4	36	66.7(24)	0.0(0)	11.1(4)	0.0(0)	0.0(0)	0.0(0)
June 19	5	5	39	100.0(39)	0.0(0)	12.8(5)	0.0(0)	5.1(2)	0.0(0)
June 19	6	9	99	11.1(11)	0.0(0)	0.0(0)	3.0(3)	0.0(0)	0.0(0)
June 19	8	3	25	8.0(2)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Total		34	372	41.4(154)	0.0(0)	4.0(15)	0.8(3)	0.5(2)	0.0(0)
<u>Hangingsstone River 12 August to 19 August</u>									
Aug 12	1	5	85	178.8(152)	0.0(0)	48.2(41)	18.8(16)	0.0(0)	0.0(0)
Aug 17	7	8	105	75.2(79)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Aug 17	8	7	70	242.9(170)	0.0(0)	0.0(0)	2.9(2)	0.0(0)	0.0(0)
Aug 17	9	5	95	12.6(12)	0.0(0)	3.2(3)	0.0(0)	0.0(0)	0.0(0)
Aug 19	2	4	50	180.0(90)	0.0(0)	58.0(29)	0.0(0)	0.0(0)	0.0(0)
Aug 19	3	6	100	44.0(44)	0.0(0)	3.0(3)	10.0(10)	0.0(0)	0.0(0)

Continued...

Table 46. Continued.

Date	Location	Number of Hauls	Distance (m)	Total Catch	Catch Per Metre of Shore Seined X 100 (N)				
					SPSH	LNSK	WFSK	Sucker fry	BURB
Aug 19	4	5	57	124.6(71)	0.0(0)	1.8(1)	0.0(0)	0.0(0)	0.0(0)
Aug 19	5	8	130	21.5(28)	0.0(0)	0.0(0)	2.3(3)	0.0(0)	0.0(0)
Total		48	692	93.4(646)	0.0(0)	11.1(77)	4.5(31)	0.0(0)	0.0(0)
<u>Hangingsstone River 9 October to 18 October</u>									
Oct 9	1	13	138	20.3(28)	0.0(0)	0.0(0)	4.3(6)	0.0(0)	0.0(0)
Oct 11	6	7	63	177.8(112)	0.0(0)	11.1(7)	1.6(1)	0.0(0)	0.0(0)
Oct 14	10	3	35	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Oct 17	5	5	58	22.4(13)	0.0(0)	1.7(1)	1.7(1)	0.0(0)	0.0(0)
Oct 17	8	6	45	215.6(97)	0.0(0)	4.4(2)	0.0(0)	0.0(0)	0.0(0)
Oct 17	9	5	47	110.6(52)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Oct 18	2	6	62	21.0(13)	0.0(0)	4.8(3)	0.0(0)	0.0(0)	0.0(0)
Oct 18	3	6	70	18.6(13)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Oct 18	4	5	38	44.7(17)	0.0(0)	7.9(3)	10.5(4)	0.0(0)	0.0(0)
Total		56	556	62.1(345)	0.0(0)	2.9(16)	2.2(12)	0.0(0)	0.0(0)
Total Hangingsstone River		172	2026	60.0(1215)	0.0(0)	5.6(114)	2.3(46)	0.1(2)	0.0(0)
<u>Horse River 8 June to 9 October</u>									
June 8	1	3	32	450.0(144)	0.0(0)	6.3(2)	0.0(0)	0.0(0)	0.0(0)
Aug 12	1	3	38	81.6(31)	2.6(1)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Aug 21	2	3	60	155.0(93)	0.0(0)	3.3(2)	1.7(1)	0.0(0)	0.0(0)
Aug 21	3	3	75	130.7(98)	0.0(0)	38.7(29)	0.0(0)	0.0(0)	0.0(0)
Aug 21	4	5	62	241.9(150)	0.0(0)	100.0(62)	0.0(0)	0.0(0)	0.0(0)
Oct 9	1	5	36	25.0(9)	0.0(0)	0.0(0)	5.6(2)	0.0(0)	0.0(0)
Total Horse River		22	303	173.3(525)	0.3(1)	31.3(95)	1.0(3)	0.0(0)	0.0(0)
<u>Saline Creek 3 May to 9 October</u>									
May 3	1	3	45	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
June 12	1	3	60	13.3(8)	0.0(0)	1.7(1)	0.0(0)	0.0(0)	0.0(0)
Aug 12	1	4	40	115.0(46)	0.0(0)	57.5(23)	0.0(0)	0.0(0)	0.0(0)
Aug 12	3	4	40	25.3(101)	0.0(0)	0.0(0)	22.5(9)	0.0(0)	0.0(0)

Continued...

Table 46. Continued.

Date	Location	Number of Hauls	Distance (m)	Total Catch	Catch Per Metre of Shore Seined X 100 (N)					
					SPSH	LNSK	WTSK	Sucker fry	BURB	
Oct 9	1	3	45	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	
Oct 9	2	5	41	29.3(12)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	
Total Saline Creek		22	271	61.6(167)	0.0(0)	8.8(24)	3.3(9)	0.0(0)	0.0(0)	
<u>Saprae Creek 20 August</u>										
Aug 20	1	3	40	52.5(21)	0.0(0)	0.0(0)	7.5(3)	0.0(0)	0.0(0)	
Aug 20	2	5	25	116.0(29)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	
Aug 20	3	5	100	11.0(11)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	
Total Saprae Creek		13	165	37.0(61)	0.0(0)	0.0(0)	1.8(3)	0.0(0)	0.0(0)	
<u>Surmont Creek 19 May to 14 October</u>										
May 19	2	4	55	1.8(1)	0.0(0)	0.0(0)	1.8(1)	0.0(0)	0.0(0)	
June 16	2	4	40	7.5(3)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	
June 17	2	7	55	80.0(44)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	
Aug 21	1	3	60	48.3(29)	5.0(3)	0.0(0)	43.3(26)	0.0(0)	0.0(0)	
Aug 21	3	3	35	362.9(127)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	
Oct 14	2	5	77	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	
Total Surmont Creek		26	322	(204)	0.9(3)	0.0(0)	8.4(27)	0.0(0)	0.0(0)	
<u>Algar Lake 21 August</u>										
Aug 21	1	4	100	6.0(6)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	
<u>Gregoire Lake 16 August to 21 August</u>										
Aug 16	1	4	150	6.7(10)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	4.0(6)	
Aug 16	3	5	125	3.2(4)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	1.6(2)	
Aug 21	2	2	70	444.3(311)	12.9(9)	0.0(0)	1.4(1)	0.0(0)	0.0(0)	
Aug 21	4	2	30	169.7(509)	>1666.7(>500)	0.0(0)	0.0(0)	0.0(0)	26.7(8)	
Total Gregoire Lake		13	375	222.4(834)	135.7(509)	0.0(0)	0.3(1)	0.0(0)	4.3(16)	

Continued...

Table 46. Continued.

Date	Location	Number of Hauls	Distance (m)	Total Catch	Catch Per Met re of Shore Seined X 100 (N)						
					TRPH	BKST	YWPH	WALL	SLSC	SPSC	
<u>Algar River 21 August</u>											
Aug	21	1	6	53	184.9(98)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Aug	21	2	dipnet	0	0.0(0)		(+)				
Aug	21	3	dipnet	0	0.0(0)	0.0(0)	(+)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Total Algar River			6	53	184.9(98)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
<u>Christina River 5 May to 10 May</u>											
May	5	1	3	25	380.0(95)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
May	8	2	3	32	143.8(46)	12.5(4)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
May	8	3	3	23	269.6(62)	17.4(4)	0.0(0)	0.0(0)	0.0(0)	4.3(1)	0.0(0)
May	8	4	3	30	6.7(2)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
May	8	5	3	37	403.0(149)	59.5(22)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
May	8	6	3	60	158.3(95)	8.3(5)	0.0(0)	0.0(0)	0.0(0)	15.0(9)	0.0(0)
May	10	7	2	20	270.0(54)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Total			20	227	221.6(503)	13.2(30)	2.2(5)	0.0(0)	0.0(0)	4.4(10)	0.0(0)
<u>Christina River 13 June to 21 June</u>											
June	13	1	8	103	381.6(393)	9.7(10)	0.0(0)	0.0(0)	0.0(0)	1.0(1)	1.0(1)
June	13	2	4	80	208.8(167)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
June	13	3	3	60	248.3(149)	6.7(4)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
June	13	4	2	30	270.0(81)	10.0(3)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
June	21	1	3	20	80.0(16)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Total			20	293	275.1(806)	5.8(17)	0.0(0)	0.0(0)	0.0(0)	0.3(1)	0.3(1)
<u>Christina River 13 August to 14 August</u>											
Aug	13	1	7	97	121.7(118)	8.2(8)	0.0(0)	53.6(52)	0.0(0)	8.2(8)	0.0(0)
Aug	13	2	5	60	91.7(55)	13.3(8)	0.0(0)	50.0(30)	0.0(0)	1.7(1)	0.0(0)
Aug	13	3	4	78	168.0(131)	0.0(0)	0.0(0)	0.0(0)	2.6(2)	0.0(0)	0.0(0)
Aug	14	4	4	42	9.5(4)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Total			20	277	111.2(308)	5.8(16)	0.0(0)	29.6(82)	0.7(2)	3.2(9)	0.0(0)

Continued...

Table 46. Continued.

Date	Location	Number of Hauls	Distance (m)	Total Catch	Catch Per Metre of Shore Seined X 100 (N)						
					TRPH	BKST	YWPH	WALL	SLSC	SPSC	
<u>Christina River 14 October</u>											
Oct	14	1	4	60	61.7(37)	6.7(4)	0.0(0)	0.0(0)	0.0(0)	11.7(7)	0.0(0)
Oct	14	2	6	69	13.0(9)	5.8(4)	0.0(0)	0.0(0)	0.0(0)	5.8(4)	0.0(0)
Oct	14	3	6	72	38.9(28)	6.9(5)	0.0(0)	0.0(0)	0.0(0)	1.4(1)	0.0(0)
Oct	14	4	5	61	11.5(7)	3.3(2)	0.0(0)	0.0(0)	0.0(0)	1.6(1)	0.0(0)
Total			21	262	30.9(81)	5.7(15)	0.0(0)	0.0(0)	0.0(0)	5.0(13)	0.0(0)
Total Christina River			81	1059	160.3(1698)	7.4(78)	0.5(5)	7.7(82)	0.2(2)	3.1(33)	0.1(1)
<u>Gregoire River 19 May</u>											
May	19	1	3	16	206.3(33)	6.3(1)	0.0(0)	0.0(0)	0.0(0)	6.3(1)	0.0(0)
May	19	3	3	17	35.3(6)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Total			6	33	118.2(39)	3.0(1)	0.0(0)	0.0(0)	0.0(0)	3.0(1)	0.0(0)
<u>Gregoire River 13 June to 15 June</u>											
June	13	1	3	21	285.7(60)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
June	13	3	2	32	171.9(55)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
June	15	4	2	26	176.9(46)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Total			7	79	203.8(161)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
<u>Gregoire River 16 August</u>											
Aug	16	1	4	35	477.1(167)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	8.6(3)	0.0(0)
Aug	16	2	3	35	625.7(219)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	68.6(24)	0.0(0)
Aug	16	3	3	35	620.0(217)	20.0(7)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Aug	16	4	5	65	38.5(25)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Aug	16	5	5	100	5.0(5)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Total			20	270	234.4(633)	2.6(7)	0.0(0)	0.0(0)	0.0(0)	10.0(27)	0.0(0)
<u>Gregoire River 14 October</u>											
Oct	14	1	4	29	737.9(214)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	13.9(4)	0.0(0)
Oct	14	2	3	60	401.7(241)	50.0(30)	0.0(0)	0.0(0)	0.0(0)	18.3(11)	0.0(0)
Oct	14	3	3	23	800.0(184)	13.0(3)	0.0(0)	0.0(0)	0.0(0)	13.0(3)	0.0(0)

Continued...

Table 46. Continued.

Date	Location	Number of Hauls	Distance (m)	Total Catch	Catch Per Met re of Shore Seined X 100 (N)					
					TRPH	BKST	YWPH	WALL	SLSC	SPSC
Oct 14	4	3	33	12.1(4)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	6.1(2)	0.0(0)
Total		13	145	443.5(643)	22.7(33)	0.0(0)	0.0(0)	0.0(0)	13.8(20)	0.0(0)
Total Gregoire River		46	527	280.1(1476)	7.8(41)	0.0(0)	0.0(0)	0.0(0)	9.1(48)	0.0(0)
Hangingsstone River		3 May to 14 May								
May 3	6	4	70	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
May 9	2	6	55	52.7(29)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	1.8(1)	0.0(0)
May 9	4	6	57	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	7.0(4)	0.0(0)
May 9	5	4	42	9.5(4)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	7.1(3)	0.0(0)
May 9	6	4	52	38.5(20)	5.8(3)	3.8(2)	0.0(0)	0.0(0)	3.8(2)	0.0(0)
May 9	7	8	100	2.0(2)	1.0(1)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
May 14	8	2	30	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Total		34	406	17.2(70)	1.0(4)	0.5(2)	0.0(0)	0.0(0)	2.5(10)	0.0(0)
Hangingsstone River		12 June to 19 June								
June 12	1	5	85	56.5(48)	5.9(5)	0.0(0)	0.0(0)	0.0(0)	1.2(1)	0.0(0)
June 16	7	4	40	35.0(14)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	17.5(7)	0.0(0)
June 16	8	4	48	33.3(16)	10.4(5)	0.0(0)	0.0(0)	0.0(0)	12.5(6)	0.0(0)
June 19	3	4	36	66.7(24)	19.4(7)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
June 19	5	5	39	100.0(39)	5.1(2)	2.6(1)	0.0(0)	0.0(0)	10.3(4)	0.0(0)
June 19	6	9	99	11.1(11)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	3.0(3)	0.0(0)
June 19	8	3	25	8.0(2)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	4.0(1)	0.0(0)
Total		34	372	41.4(154)	5.1(19)	0.3(1)	0.0(0)	0.0(0)	5.9(22)	0.0(0)
Hangingsstone River		12 August to 19 August								
Aug 12	1	5	85	178.8(152)	5.9(5)	0.0(0)	0.0(0)	2.4(2)	15.3(13)	0.0(0)
Aug 17	7	8	105	75.2(79)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	75.2(79)	0.0(0)
Aug 17	8	7	70	242.9(170)	1.4(1)	0.0(0)	0.0(0)	0.0(0)	228.6(160)	0.0(0)
Aug 17	9	5	95	12.6(12)	0.0(0)	2.1(2)	0.0(0)	0.0(0)	6.3(6)	0.0(0)
Aug 19	2	4	50	180.0(90)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	8.0(4)	0.0(0)
Aug 19	3	6	100	44.0(44)	3.0(3)	0.0(0)	0.0(0)	0.0(0)	5.0(5)	0.0(0)

Continued...

Table 46. Continued.

Date	Location	Number of Hauls	Distance (m)	Total Catch	Catch Per Metre of Shore Seined X 100 (N)					
					TRPH	BKST	YWPH	WALL	SLSC	SPSC
Aug 19	4	5	57	124.6(71)	73.7(42)	0.0(0)	0.0(0)	0.0(0)	17.5(10)	0.0(0)
Aug 19	5	8	130	21.5(28)	0.0(0)	0.8(1)	0.0(0)	0.0(0)	15.4(20)	0.0(0)
Total		48	692	93.4(646)	7.4(51)	0.4(3)	0.0(0)	0.3(2)	42.9(297)	0.0(0)
<u>Hanginestone River 9 October to 18 October</u>										
Oct 9	1	13	138	20.3(28)	1.4(2)	0.0(0)	0.0(0)	0.0(0)	5.1(7)	0.0(0)
Oct 11	6	7	63	177.8(112)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	123.8(78)	0.0(0)
Oct 14	10	3	35	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Oct 17	5	5	58	22.4(13)	3.4(2)	0.0(0)	0.0(0)	0.0(0)	13.8(8)	0.0(0)
Oct 17	8	6	45	215.6(97)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	204.4(92)	0.0(0)
Oct 17	9	5	47	110.6(52)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	106.4(50)	0.0(0)
Oct 18	2	6	62	21.0(13)	3.2(2)	0.0(0)	0.0(0)	0.0(0)	8.1(5)	0.0(0)
Oct 18	3	6	70	18.6(13)	14.3(10)	0.0(0)	0.0(0)	0.0(0)	4.3(3)	0.0(0)
Oct 18	4	5	38	44.7(17)	21.1(8)	0.0(0)	0.0(0)	0.0(0)	2.6(1)	0.0(0)
Total		56	556	62.1(345)	4.3(24)	0.0(0)	0.0(0)	0.0(0)	43.9(244)	0.0(0)
Total Hanginestone River		172	2026	60.0(1215)	4.8(98)	0.3(6)	0.0(0)	0.1(2)	28.2(573)	0.0(0)
<u>Horse River 8 June to 9 October</u>										
June 8	1	3	32	450.0(144)	6.3(2)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Aug 12	1	3	38	81.6(31)	10.5(4)	0.0(0)	60.5(23)	2.6(1)	2.6(1)	0.0(0)
Aug 21	2	3	60	155.0(93)	26.7(16)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Aug 21	3	3	75	130.7(98)	16.0(12)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Aug 21	4	5	62	241.9(150)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	132.3(82)	0.0(0)
Oct 9	1	5	36	25.0(9)	2.8(1)	0.0(0)	0.0(0)	0.0(0)	2.8(1)	0.0(0)
Total Horse River		22	303	173.3(525)	11.5(35)	0.0(0)	7.6(23)	0.3(1)	27.7(84)	0.0(0)
<u>Saline Creek 3 May to 9 October</u>										
May 3	1	3	45	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
June 12	1	3	60	13.3(8)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Aug 12	1	4	40	115.0(46)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)
Aug 12	3	4	40	25.3(101)	0.0(0)	210.0(84)	0.0(0)	0.0(0)	0.0(0)	0.0(0)

Continued...

Table 46. Concluded.

Date	Location	Number of Hauls	Distance (m)	Total Catch	Catch Per Metre of Shore Seined X 100 (N)						
					TRPH	BKST	YWPH	WALL	SLSC	SPSC	
Oct 9	1	3	45	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	
Oct 9	2	5	41	29.3(12)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	
Total Saline Creek		22	271	61.6(167)	0.0(0)	31.0(84)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	
<u>Saprae Creek 20 August</u>											
Aug 20	1	3	40	52.5(21)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	7.5(3)	0.0(0)	
Aug 20	2	5	25	116.0(29)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	
Aug 20	3	5	100	11.0(11)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	2.0(2)	0.0(0)	
Total Saprae Creek		13	165	37.0(61)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	3.0(5)	0.0(0)	
<u>Surmont Creek 19 May to 14 October</u>											
May 19	2	4	55	1.8(1)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	
June 16	2	4	40	7.5(3)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	5.0(2)	0.0(0)	
Aug 17	2	7	55	80.0(44)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	25.5(14)	0.0(0)	
Aug 21	1	3	60	48.3(29)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	
Aug 21	3	3	35	362.9(127)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	31.4(11)	0.0(0)	
Oct 14	2	5	77	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	
Total Surmont Creek		26	322	63.3(204)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	8.4(27)	0.0(0)	
<u>Ajgar Lake 21 August</u>											
Aug 21	1	4	100	6.0(6)	0.0(0)	5.0(5)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	
<u>Gregoire Lake 16 August to 21 August</u>											
Aug 16	1	4	150	6.7(10)	0.0(0)	0.0(0)	2.7(4)	0.0(0)	0.0(0)	0.0(0)	
Aug 16	3	5	125	3.2(4)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	
Aug 21	2	2	70	444.3(311)	0.0(0)	0.0(0)	430.0(301)	0.0(0)	0.0(0)	0.0(0)	
Aug 21	4	2	30	169.7(509)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	0.0(0)	
Total Gregoire Lake		13	375	222.4(834)	0.0(0)	0.0(0)	81.3(305)	0.0(0)	0.0(0)	0.0(0)	

D. FISH COLLECTION DATA SHEETS

Data for each fish collected are given on the following Fish Collection Data Sheets. Abbreviations for fish species names are the same as those given in Table 44. The following abbreviations are also used:

1. Sex: M = male, F = female, U = unknown;
2. Maturity: M = mature, I = immature;
3. Spawning Condition: G = green, R = ripe,
SO = spawned out, WS = won't spawn;
4. Methods of Capture: GN = gillnet, BS = beach
seine, MS = minnow seine.

AQUATIC ENVIRONMENTS

LIMITED Calgary, Alberta

COLLECTION NO. AOS78-9

LOCATION Site 26

FISH COLLECTION DATA SHEET

DATE May 5, 1978

SAMPLED BY Tripp, McCart, Grant

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	LNSK	358	616	F	M	G	2.0	35144	61.5			10	SN		Gonad sub-sample 6.9 gms
2	LNSK	316	419	M	M	R			2.6			11	SN		
3	LNSK	384	741	F	M	G	1.8		76.3			13	SN		
4	LNSK	391	804	F	M	G	2.1	1930	84.5			12	SN		Gonad sub-sample 10.1 gms
5	LNSK	357	611	M	M	G			21.3			13	SN		
6	LNSK	328	551	M	M	G			18.7			11	SN		
7	LNSK	318	450	M	M	G			16.8			12	SN		
8	LNSK	388	810	F	M	G	1.8	11880	37.5			13	SN		Gonad sub-sample 4.7 gms
9	LNSK	358	553	M	M	G			22.2			12	SN		
10	LNSK	343	512	M	M	G			19.7			11	SN		
11	LNSK	358	574	M	M	G			24.9			12	SN		
12	LNSK	388	823	F	M	G	1.8	17904	89.7			12	SN		Gonad sub-sample 9.9 gms
13	LNSK	336	485	M	M	G			21.6			11	SN		
14	LNSK	330	470	M	M	G			23.8			11	SN		
15	LNSK	391	744	F	M	G	1.9	14342	67.5			13	SN		Gonad sub-sample 9.3 gms
16	LNSK	440	1183	F	M	G	1.9	32269	166.4			15	SN		Gonad sub-sample 18.1 gms
17	LNSK	333	540	M	M	G			22.8			11	SN		
18	LNSK	353	622	M	M	G			22.7			11	SN		
19	LNSK	375	791	F	M	G	2.0	13592	85.4			11	SN		Gonad sub-sample 9.5 gms
20	LNSK	393	692	M	M	G			20.5			13	SN		

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AQUATIC ENVIRONMENTS



LIMITED Calgary, Alberta

COLLECTION NO. AOS78-9
 LOCATION Site 26

FISH COLLECTION DATA SHEET

DATE May 5, 1978
 SAMPLED BY Tripp, Grant, McCart

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
21	LNSK	351	602	M	M	G			21.7			13	SN		
22	LNSK	310	424	M	M	G			15.4			12	SN		
23	LNSK	331	501	F	M	G	1.8	6623	43.1			13	SN		Gonad sub-sample 4.9 gms
24	LNSK	385	653	M	M	G			12.8			13	SN		
25	LNSK	358	597	M	M	G			31.3			12	SN		
26	LNSK	285	286	M	M	G			7.1			8	SN		
27	LNSK	314	411	M	M	G			16.8			11	SN		
28	LNSK	333	527	M	M	G			22.2			11	SN		
29	LNSK	294	331	F	I							9	SN		
30	WALL	400	689	F	I				4.1					Empty	
31	PIKE	465	624	M	M	R			6.7		8		SN		
32	PIKE	554	967	M	M	R			7.3		8		SN		
33	PIKE	440	508	M	M	G					6		SN		



AQUATIC ENVIRONMENTS



LIMITED Calgary, Alberta

COLLECTION NO. AOS78-13
LOCATION Site 27

FISH COLLECTION DATA SHEET

DATE May 7, 1978
SAMPLED BY Tripp

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	WTSK	362	639	M	M	G			24.8			11	GN		
2	WTSK	385	867	M	M	G			38.6			11	GN		
3	LNSK	352	588.3	F	M	G	1.9	13068	64.1			10	GN		Gonad sub-sample 8.0 gms
4	PIKE	390	538	M	M	G			6.0		5		GN	Empty	

AQUATIC ENVIRONMENTS

LIMITED Calgary, Alberta

COLLECTION NO. AOS78-15

LOCATION _____

FISH COLLECTION DATA SHEET

DATE May 8, 1978

SAMPLED BY Tripp

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	WTSK	366	768	M	M	G			31.4			10	Gill		
2	WTSK	335	484	F	I				2.9			9	Gill		
3	WTSK	381	736	M	M	G			30.4			12	Gill		
4	WTSK	350	601	M	M	G			27.7			11	Gill		
5	WTSK	402	757	M	M	R			30.2			13	Gill		
6	WTSK	379	758	M	M	R			26.7			9	Gill		
7	WTSK	431	1264	F	M	G	1.7	34888	145.4			14	Gill		Gonad sub-sample 18.0 gms
8	WTSK	360	560	F	M	G	1.3	19547	36.1			9	Gill		Gonad sub-sample 4.1 gms
9	WTSK	358	611	M	M	R			30.7			8	Gill		
10	WTSK	336	526	F	M	R			18.1			10	Gill		
11	LNSK	364	671	F	M	G	1.6	14353	70.5			10	Gill		Gonad sub-sample 13.1 gms
12	LNSK	365	686	F	M	G	1.9	32504	61.9			12	Gill		Gonad sub-sample 9.2 gms
13	LNSK	384	675	F	M	G	1.8	18015	74.6			11	Gill		Gonad sub-sample 15.4 gms
14	LNSK	252	507	F	M	G	1.7		41.8			9	Gill		Gonad sub-sample 4.9 gms
15	LNSK	305	330	F	I				1.2			9	Gill		

AQUATIC ENVIRONMENTS

LIMITED Calgary, Alberta

COLLECTION NO. AOS78-18

LOCATION _____

FISH COLLECTION DATA SHEET

DATE May 8, 1978

SAMPLED BY Tripp, Ford

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	LNSK	357	608	F	M	G	1.7	19192	60.0			12	GN		Gonad sub-sample 7.1 gms
2	LNSK	343	478	M	M	G			18.9			9	GN		
3	LNSK	350	490	DECOMPOSED								10	GN		
4	LNSK	360	579	F	M	G	1.6	13587	63.4			8	GN		Gonad sub-sample 9.3 gms
5	PIKE	460	627	M	M	G			6.6				GN	Empty	



AQUATIC ENVIRONMENTS



LIMITED Calgary, Alberta

COLLECTION NO. AOS78-19
LOCATION _____

FISH COLLECTION DATA SHEET

DATE May 8, 1978
SAMPLED BY Tripp, Ford

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	PIKE	487	684	F	I				5.5				SN	10% full, fish remains	
2	PIKE	466	563	M	M	G			5.8				SN	Empty	
3	PIKE	377	307	F	I				2.4				SN	Empty	

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AQUATIC ENVIRONMENTS

LIMITED Calgary, Alberta

COLLECTION NO. AOS78-20

LOCATION _____

FISH COLLECTION DATA SHEET

DATE May 8, 1978

SAMPLED BY Tripp, Ford

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	PIKE	624	1456	F	M	G	1.7	15860	79.2				ANG	Empty	Gonad sub-sample 7.8 gms
2	PIKE	456	519	F	I				3.6				ANG	Empty	
3	PIKE	414	406	M	M	G			4.9				Ang	Empty	



AQUATIC ENVIRONMENTS



LIMITED Calgary, Alberta

COLLECTION NO. AOS78-21
 LOCATION _____

FISH COLLECTION DATA SHEET

DATE May 8, 1978

SAMPLED BY Tripp, Ford

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	LNSK	371	651	F	M	G	1.9	17903	71.1			10	GN		Gonad sub-sample 12.2 gms
2	LNSK	333	536	M	M	G			3.9			10	GN		
3	WALL	464	1009	M	M	R			18.9				GN	100% full, fish remains	
4	WALL	384	553	M	M	R			10.5				GN	Empty	
5	WALL	499	1385	M	M	R			23.0				GN	5% full, fish remains	

AQUATIC ENVIRONMENTS

LIMITED Calgary, Alberta

COLLECTION NO. AOS78-22

LOCATION _____

FISH COLLECTION DATA SHEET

DATE May 9, 1978

SAMPLED BY Tripp, Ford

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	GRAY	147	25.7	M	I				0.1				SN	100% full, insect parts	

AQUATIC ENVIRONMENTS

LIMITED Calgary, Alberta

COLLECTION NO. AOS78-25

LOCATION _____

FISH COLLECTION DATA SHEET

DATE May 10, 1978

SAMPLED BY Tripp

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	WALL	523	1433.2	F	M	G	1.4	35060	138.2				GN	Empty	Gonad sub-sample 14.5 gms
2	PIKE	610	1512	F	M	G	1.9	23165	136.6				GN	Empty	Gonad sub-sample 14.5 gms
3	PIKE	498	861	F	M	R	2.5		26.6				GN	25% full, fish remains	
4	PIKE	403	426	M	M	R			5.7				GN		

AQUATIC ENVIRONMENTS

LIMITED Calgary, Alberta

COLLECTION NO. AOS78-26
LOCATION _____

FISH COLLECTION DATA SHEET

DATE May 10, 1978
SAMPLED BY Tripp, McCart, Grant, Ford

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	WTSK	411	938	F	M	G	1.8	38789	110.4			11	GN		Gonad sub-sample 12.6 gms
2	WTSK	429	1034	F	M	G	1.7	36902	115.8				GN		Gonad sub-sample 16.5 gms
3	WTSK	335	457	F	I				4.1			10	GN		
4	WTSK	320	398	F	M	G	1.5		37.5			10	GN		Gonad sub-sample 4.6gms
5	WTSK	282	257	F	I				0.3			7	GN		
6	MTWT	297	350	M	I				0.6				GN	100% full tricoptera, chironomids	

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**AQUATIC
ENVIRONMENTS**



LIMITED Calgary, Alberta

COLLECTION NO. AOS78-27
LOCATION _____

FISH COLLECTION DATA SHEET

DATE May 10, 1978
SAMPLED BY Tripp, Grant, McCart

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	LNSK	345	552	F	I				6.3			10	GN		
2	WTSK	314	398	F	I				0.9			10	GN		
3	PIKE	497	847	F	M	R	2.4		75.2				GN	Empty	
4	PIKE	480	648	F	M	G	2.0	11365	46.1				GN	Empty	Gonad sub-sample 6.3 gms
5	PIKE	478	768	M	M	R			9.3				GN	Empty	
6	PIKE	523	880	F	M	G	2.0	19658	71.5				GN	Empty	Gonad sub-sample 8.3 gms

AQUATIC ENVIRONMENTS

LIMITED Calgary, Alberta

COLLECTION NO. AOS78-28

LOCATION _____

FISH COLLECTION DATA SHEET

DATE May 10, 1978

SAMPLED BY Grant, McCart, Tripp, Ford

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	PIKE	525	1100	M	M	R			13.9				GN	Empty	
2	PIKE	482	691	F	M	R	2.3		16.3				GN	Empty	
3	PIKE	483	780	F	M	G	2.1	23651	39.9				GN	100% full, fish remains	Gonad sub-sample 4.7 gms
4	PIKE	460	554	M	M	R			2.4				GN	100% full, fish remains	
5	PIKE	545	949	M	M	G			8.1				GN	40% full, fish remains	



AQUATIC ENVIRONMENTS



LIMITED Calgary, Alberta

COLLECTION NO. AOS78-29
LOCATION _____

FISH COLLECTION DATA SHEET

DATE May 10, 1978
SAMPLED BY Tripp, McCart, Grant

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	PIKE	401	338	F	I				2.2				GN	10% full, fish remains	
2	PIKE	628	1590	F	M	G	1.8		21.5				GN	Empty	
3	PIKE	647	1566	F	M	WS			9.5				GN		
4	PIKE	418	392	M	M	G			2.4				GN	40% full, fish remains	
5	PIKE	527	973	F	M	G	1.8	11924	74.2				GN	Empty	Gonad sub-sample 8.5 gms
6	PIKE	521	852	F	M	G	2.0	21272	81.4				GN	Empty	Gonad sub-sample 10.6 gms
7	PIKE	499	811	F	I				5.8				GN	Empty	
8	PIKE	534	942	F	M	G	1.8	12088	66.0				GN	Empty	Gonad sub-sample 8.9 gms
9	PIKE	539	1018	F	M	G	2.0	5778	36.6				GN	Empty	Gonad sub-sample 9.4 gms
10	PIKE	508	801	F	M	G	1.9	6562	36.9				GN	Empty	Gonad sub-sample 6.5 gms
11	PIKE	425	438	F	I				3.6				GN	Empty	
12	PIKE	476	661	F	M	G	1.9	9605	49.6				GN	Empty	Gonad sub-sample 6.3 gms

AQUATIC ENVIRONMENTS

LIMITED Calgary, Alberta

COLLECTION NO. A0S78-33

LOCATION _____

FISH COLLECTION DATA SHEET

DATE May 14, 1978

SAMPLED BY Tripp, Grant

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	WTSK	410	1178	F	M	G	1.7	47291	157.2		NT	11	GN		Gonad sub-sample 14.4 gms
2	WTSK	368	667	F	M	G	1.5	16726	57.3		NT	9	GN		Gonad sub-sample 5.8 gms
3	LNSK	358	654	F	M	G	1.7	17754	61.5		NT	12	GN		Gonad sub-sample 7.6 gms
4	LNSK	351	607	F	M	G	1.7	12912	52.8		NT	9	GN		Gonad sub-sample 6.6 gms



AQUATIC ENVIRONMENTS



LIMITED Calgary, Alberta

COLLECTION NO. AOS78-34
LOCATION _____

FISH COLLECTION DATA SHEET

DATE May 14, 1978
SAMPLED BY Tripp, Grant

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	WTSK	448	1232	F	M	G	1.7	20962	103.9		NT	15	GN		Gonad sub-sample 14.8 gms

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AQUATIC ENVIRONMENTS

LIMITED Calgary, Alberta

COLLECTION NO. AOS78-35
 LOCATION _____

FISH COLLECTION DATA SHEET

DATE May 14, 1978
 SAMPLED BY Tripp, Grant

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	WALL	399	657	F	I				2.0		6		GN	Empty	
2	PIKE	558	1062	F	M	G	2.0	15962	98.9		10	NT	GN	Empty	Gonad sub-sample 7.9 gms
3	PIKE	509	896	M	M	SO			9.2		11	NT	GN	Empty	
4	PIKE	458	631	M	M	SO			3.2		9	NT	GN	Empty	
5	PIKE	523	977	M	M	SO			8.5		10	NT	GN	Empty	
6	PIKE	499	696	F	I				5.5		11	NT	GN	Empty	
7	PIKE	485	747	M	M	SO			8.9		11	NT	GN	Empty	
8	PIKE	409	410	F	M	SO			4.8		5	NT	GN	Empty	
9	PIKE	492	873	M	M	R			10.5		11	NT	GN	Empty	
10	PIKE	661	2186	F	M	G	1.7	22376	146.0		10	NT	GN	Empty	Gonad sub-sample 13.8 gms

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AQUATIC ENVIRONMENTS

LIMITED Calgary, Alberta

COLLECTION NO. A0S78-36
 LOCATION _____

FISH COLLECTION DATA SHEET

DATE May 14, 1978
 SAMPLED BY Tripp, Grant

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	PIKE	409	466	M	M	R			6.3		8	NT	GN	Empty	
2	PIKE	684	2694	F	M	SO			25.4		12	NT	GN	100% full, 2 WTSKs	

AQUATIC ENVIRONMENTS

LIMITED Calgary, Alberta

COLLECTION NO. AOS78-40
 LOCATION _____

FISH COLLECTION DATA SHEET

DATE May 19, 1978
 SAMPLED BY Tripp, Grant

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	WTSK	307	380	M	M	R			13.2		NT	10	GN		
2	LNSK	313	368	F	I				1.1		NT	11	GN		
3	LNSK	332	434	M	M	SO			9.5		NT	11	GN		
4	LNSK	368	538	F	M	SO			10.5		NT	12	GN		
5	LNSK	325	404	F	M	SO			6.1		NT	12	GN		
6	PIKE	184	29.8	U	I				0.1			NT	SN	20% full, 75% ephemeroptera, 25% insect parts	

FISH COLLECTION DATA SHEET

COLLECTION NO. AOS78-41
LOCATION _____

DATE May 19, 1978
SAMPLED BY Tripp, Grant

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	LNSK	290	295	F	I				0.9		NT	9	GN		



**AQUATIC
ENVIRONMENTS**



LIMITED Calgary, Alberta

COLLECTION NO. AOS78-42
LOCATION _____

FISH COLLECTION DATA SHEET

DATE May 19, 1978
SAMPLED BY Tripp, Grant

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	WTSK	342	523	M	M	R			22.3		NT	13	GN		
2	WTSK	368	666	M	M	R			33.8		6	13	GN		
3	LNSK	377	636	F	M	SO			10.8		NT	14	GN		
4	LNSK	378	635	F	M	SO			14.5		NT	13	GN		
5	PIKE	472	732	M	M	SO			3.7			NT	GN	Empty	
6	PIKE	533	1000	M	M	SO			9.8			NT	GN	Empty	



**AQUATIC
ENVIRONMENTS**



LIMITED Calgary, Alberta

COLLECTION NO. AOS78-71
LOCATION Site 27

FISH COLLECTION DATA SHEET

DATE June 8, 1978
SAMPLED BY Grant, McCart

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	PIKE	445	569	F	I				3.0		5		GN	5% full, fish remains	
2	PIKE	549	874	F	M	SO	R.E. 2.2		10.8		5		GN	Empty	30 retained (R.E.) eggs
3	PIKE	483	688	F	M	SO			17.4		7		GN	Empty	
4	WALL	285	245	M	I				0.2		7		GN	Empty	



**AQUATIC
ENVIRONMENTS**



LIMITED Calgary, Alberta

FISH COLLECTION DATA SHEET

COLLECTION NO. AOS78-78

DATE June 12, 1978

LOCATION _____

SAMPLED BY Tripp, Tanasichuk

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	WTSK	325	389	F	M	G	0.5		4.5		NT	12	SN	Empty	



**AQUATIC
ENVIRONMENTS**



LIMITED Calgary, Alberta

COLLECTION NO. AOS78-80
LOCATION Site 26

FISH COLLECTION DATA SHEET

DATE June 13, 1978

SAMPLED BY Tripp, Tanasichuk

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	LNSK	195	76	U	I						NT	6	SN	Digested material	
2	LNSK	115	11	U	I						NT	5	SN	Digested material	
3	PIKE	440	364	M	M	G					NT		SN	Empty	



AQUATIC ENVIRONMENTS



LIMITED Calgary, Alberta

COLLECTION NO. AOS78-82
LOCATION Site 27

FISH COLLECTION DATA SHEET

DATE June 14, 1978
SAMPLED BY Tripp, Tanasichuk

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	WALL	458	935	F	M	SO			4.1		12		GN	10% fish remains	
2	WALL	379	557	F	I				2.4		10		GN	Empty	
3	WALL	337	397	F	I				1.6		8		GN	Empty	
4	LNSK	387	755	F	M	G	1.0		17.2		NT	15	GN	Empty	
5	PIKE	536	942	F	M	SO			6.7		9		GN	100% full, LNSK	
6	PIKE	545	835	F	M	SO			7.8		6		GN	Empty	
7	PIKE	458	494	F	M	WS			17.8		7		GN	50% full, wood	Eggs being reabsorbed
8	PIKE	417	384	F	M	SO			3.5		6		GN	Empty	
9	PIKE	362	295	M	M	G			2.1		5		GN	Empty	

AQUATIC ENVIRONMENTS

LIMITED Calgary, Alberta

COLLECTION NO. AOS78-83

FISH COLLECTION DATA SHEET

DATE June 15, 1978

LOCATION _____

SAMPLED BY Tripp, Tanasichuk

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	WALL	350	507	U							9		GN	Empty	
2	WALL	295	317	M	I				0.1				GN	40% full, digested material	
3	WALL	407	697	F	I				0.5				GN	Empty	
4	WALL	352	429	F	I				4.6				GN	20% full, digested material	
5	WALL	303	263	M	I				0.1				GN	30% full, fish remains	
6	WALL	326	454	F	I				2.0				GN	50% full, fish remains	
7	WTSK	296	288	F	M	SO					11		GN	Empty	
8	WTSK	388	643	M	M	SO			5.5		12		GN		
9	GOLD	300	371	F	M				5.3				GN	100% full, beetles, ants, insect parts	
10	GOLD	277	210	M	I				0.2				GN	10% full, insect parts	
11	GOLD	321	390	F	M				11.5				GN	100% full, beetles, corixids, insect parts	
12	GOLD	293	248	F	I				0.8				GN	10% full, insect parts	
13	GOLD	288	242	F	I				3.3				GN	10% full, insect parts	
14	GOLD	278	227	F	I				2.5				GN	50% full, insect parts	
15	GOLD	284	242	F	I				1.3				GN	10% full, digested material	
16	GOLD	289	255	F	I				2.3				GN	20% full, insect parts	

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AQUATIC ENVIRONMENTS

LIMITED Calgary, Alberta

COLLECTION NO. AOS78-84

LOCATION _____

FISH COLLECTION DATA SHEET

DATE June 15, 1978

SAMPLED BY Tripp, Tanasichuk

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	WALL	331	353	M	I				0.1				GN	100% full, fish remains	
2	WTSK	320	441	F	M	SO			4.3			18	GN	Empty	
3	LNSK	385	681	F	M	SO						15	GN	digested material	
4	PIKE	525	695	F	M	SO			7.0				GN	Empty	
5	PIKE	425	486	M	M	SO			1.5				GN	Empty	
6	PIKE	485	697	M	M	SO			5.6				GN	Empty	
7	PIKE	448	468	F	M	WS			22.1				GN	Empty	
8	PIKE	494	704	M	M	SO			7.3				GN	Empty	
9	PIKE	468	524	M	M	SO			4.1				GN	Empty	
10	PIKE	421	415	F	M	SO			4.6				GN	Empty	
11	PIKE	605	1037	F	M	WS			19.8				GN	Empty	
12	PIKE	483	559	M	M	SO			4.4				GN	50% full, fish remains	
13	PIKE	435	389	M	M	G			2.4				GN	20% full, fish remains	

AQUATIC ENVIRONMENTS

LIMITED Calgary, Alberta

COLLECTION NO. AOS78-85

LOCATION _____

FISH COLLECTION DATA SHEET

DATE June 15, 1978

SAMPLED BY Tripp, Tanasichuk

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	WTSK	315	391	F	M	SO			4.7			12	GN		
2	GOLD	289	240	F	I				1.5				GN	50% full, insect parts	
3	PIKE	518	947	F	M	WS			53.4				GN	Empty	
4	PIKE	525	903	F	M	SO			6.6				GN	Empty	
5	PIKE	526	707	F	M	WS			12.2				GN	Empty	
6	PIKE	524	802	F	M	WS			14.9				GN	10% full, fish remains	
7	PIKE	530	759	M	M	SO			5.2				GN	Empty	
8	PIKE	482	551	F	M	SO			4.4				GN	Empty	

AQUATIC ENVIRONMENTS

LIMITED Calgary, Alberta

COLLECTION NO. AOS78-86

LOCATION _____

FISH COLLECTION DATA SHEET

DATE June 15, 1978

SAMPLED BY Tripp, Tanasichuk

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	LNSK	348	557	F	M	SO			11.1				GN		
2	LNSK	345	473	M	M	SO			3.6				GN	Digested Material	
3	LNSK	308	375	F	I								GN		
4	LNSK	275	271	U	I								GN		
5	GRAY	330	390	M	M	G							GN		
6	PIKE	425	390	F	I				3.2				GN	Empty	
7	PIKE	376	642	M	M	SO			216				GN	Empty	

AQUATIC ENVIRONMENTS

LIMITED Calgary, Alberta

COLLECTION NO. AOS78-87

LOCATION _____

FISH COLLECTION DATA SHEET

DATE June 16, 1978

SAMPLED BY Tripp, Tanasichuk

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	WALL	470	1028	F	M	SO			7.8				GN	100% full, fish remains	
2	WALL	433	951	F	M	SO			3.1				GN	Empty	
3	WALL	442	979	F	M	SO			6.0				GN	Empty	
4	WALL	408	755	F	I				3.8				GN	10% full, fish remains	
5	WALL	387	629	F	I				2.6				GN	100% full, fish remains	

AQUATIC ENVIRONMENTS

LIMITED Calgary, Alberta

COLLECTION NO. AOS78-88
 LOCATION _____

FISH COLLECTION DATA SHEET

DATE June 16, 1978
 SAMPLED BY Tripp, Tanasichuk

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	WTSK	378	789	F	M	SO			12.9				GN		
2	LNSK	364	618	M	M	SO			4.7				GN		
3	LNSK	367	612	F	M	SO			9.8				GN		
4	LNSK	370	645	F	M	SO							GN		
5	LNSK	167	58.7	U	I								GN		

AQUATIC ENVIRONMENTS

LIMITED Calgary, Alberta

COLLECTION NO. AOS78-89

LOCATION _____

FISH COLLECTION DATA SHEET

DATE June 16, 1978

SAMPLED BY Tripp, Tanasichuk

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	WTSK	174	57.7	M	M	R			0.7				GN		Nuptial tubercles (almost spawned out)
2	WTSK												GN		Nuptial tubercles (almost spawned out)
3	WTSK	183	61.8	M	M	R							GN		
4	WTSK	283	238	F	M	SO			3.2				GN		
5	WTSK	236	146	M	M	SO							GN		
6	GRAY	240	150	M	M	SO			0.8				GN	100% full, caddis flies	
7	GRAY	210	96	F	I				0.6				GN	100% full, caddis flies, ephemeroptera	
8	GRAY	166	47.1	M	I								GN	100% full, ephemeroptera, trichoptera	
9	GRAY	114	14.7	U	I								GN		
10	GRAY	124	19.8	M	I								GN		
11	GRAY	105	11.1	U	I								GN		
12	GRAY	102	11.2	U	I								GN		
13	GRAY	92	8.5	U	I								GN		



**AQUATIC
ENVIRONMENTS**



LIMITED Calgary, Alberta

COLLECTION NO. AOS78-91

LOCATION _____

FISH COLLECTION DATA SHEET

DATE June 19, 1978

SAMPLED BY Tripp

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	GRAY	236	138.5	M	M	G			1.6		NT		SN	100% full, trichoptera, ephemeroptera	

AQUATIC ENVIRONMENTS

LIMITED Calgary, Alberta

FISH COLLECTION DATA SHEET

COLLECTION NO. AOS78-92

LOCATION _____

DATE June 20, 1978

SAMPLED BY Tripp, Tanasichuk

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	GRAY	222	108.3	M	M	G			0.7				SN	100% full, beetles, ants, tabanid larvae	
2	GRAY	165	47.7	M	I				0.2				SN	100% full, beetles, ants, trichop. larvae, tabanid larvae	
3	GRAY	180	68.9	F	I				0.4				SN	100% full, beetles, tabanid larvae, ephemeroptera, dig. material	
4	GRAY	160	46.3	F	I				0.3				SN	100% full, beetles, tabanid larvae, dig. material	
5	GRAY	149	34.4	F	I				0.3				SN	100% full, tabanid larvae, beetles, digested material	
6	WTSK	296	301	F	M	SO			5.8				SN		
7	WTSK	190	86	F	M	SO			1.6				SN		

COLLECTION NO. AOS78-93
LOCATION _____

FISH COLLECTION DATA SHEET

DATE June 20, 1978
SAMPLED BY Tripp, Tanasichuk

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	PIKE	277	157	M	M	G			0.1				GN	100% full, odonata	

AQUATIC ENVIRONMENTS

LIMITED Calgary, Alberta

FISH COLLECTION DATA SHEET

COLLECTION NO. AOS 78-96

DATE August 13, 1978

LOCATION _____

SAMPLED BY Tripp, Strugnell

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	WALL	263	178.4	F	I				0.2				GN	Empty	
2	WALL	321	392.1	M	M	G			0.7				GN	Empty	
3	LNSK	358	543.6	M	M	G			2.8				GN	Empty	
4	LNSK	343	389.0	F	I				3.5				GN	Empty	
5	GOLD	288	268.5	F	I				1.7				GN	50% full, fish remains, small rodent	
6	GOLD	285	247.4	F	I				1.4				GN	50% full, chironomids, digested material	
7	PIKE	574	1223.8	F	M	G	1.5		3.5				GN	Empty	



AQUATIC ENVIRONMENTS



LIMITED Calgary, Alberta

COLLECTION NO. AOS78-97

LOCATION _____

FISH COLLECTION DATA SHEET

DATE August 13, 1978

SAMPLED BY Tripp, Strugnell

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	LNSK	265	267.1	F	I								GN		
2	LNSK	250	187.1	F	I								GN		

**AQUATIC
ENVIRONMENTS**

LIMITED Calgary, Alberta

COLLECTION NO. AOS78-98

LOCATION _____

FISH COLLECTION DATA SHEET

DATE August 14, 1978

SAMPLED BY Tripp, Strugnell

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	WALL	432	717.1	F	I				4.2				GN	100% full, fish remains	
2	PIKE	465	606.7	F	I				1.5				GN	50% full, fish remains	
3	PIKE	400	497.9	F	I				0.05				GN	100% full, flathead chub	
4	PIKE	490	739.8	F	M	WS			11.9				GN	Empty	
5	GOLD	307	401.5	F	M	G			10.2				GN	10% full, digested material	
6	GOLD	313	357.4	F	I				10.8				GN	100% full, spruce needles, beetles, hornets, ants, veg. matter	

AQUATIC ENVIRONMENTS

LIMITED Calgary, Alberta

COLLECTION NO. A0S78-99

LOCATION _____

FISH COLLECTION DATA SHEET

DATE August 14, 1978

SAMPLED BY Tripp, Strugnell

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	WTSK	381	322.1	M	M	G			33.3				GN		
2	GOLD	266	236.8	U	I				1.7				GN	100% full, insect remains, vegetable matter	
3	GOLD	294	303.2	M	I				3.1				GN	25% full, digested matter	
4	GOLD	276	281.9	M	I				2.7				GN	100% vegetable matter	
5	GOLD	300	339.0	M	I				2.7				GN	70% full, insect remains, veg. matter	
6	GOLD	273	267.9	M	I				3.6				GN	25% full, veg. matter	
7	GOLD	298	332.4	F	I				2.2				GN	10% full, veg. matter	
8	GOLD	319	448.1	F	M	G			15.0				GN	25% full, veg. matter	
9	PIKE	525	1977.7	M	M	G			12.0				GN	10% full, dig. matter	
10	PIKE	475	757.2	M	M	G			11.8				GN	5% full, dig. matter	
11	PIKE	470	769.0	M	M	G			9.1				GN	Empty	

AQUATIC ENVIRONMENTS

LIMITED Calgary, Alberta

FISH COLLECTION DATA SHEET

COLLECTION NO. A0S78-100
LOCATION _____

DATE August 14, 1978

SAMPLED BY Tripp, Strugnell

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	LNSK	426	759.9	M	M	G			21.8				GN		
2	WTSK	390	862.5	F	M	G			42.5				GN		
3	PIKE	382	384.7	M	I				0.7				GN	70% full, sucker	

AQUATIC ENVIRONMENTS

LIMITED Calgary, Alberta

COLLECTION NO. AOS78-105

LOCATION _____

FISH COLLECTION DATA SHEET

DATE August 23, 1978

SAMPLED BY Tripp, Strugnell

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	WALL	541	1832.5	F	M	G	0.7		R 30.9 L 0.7				GN	Empty	
2	WALL	485	1401.6	M	M	G			46.3				GN	10% full, dig. material	
3	WALL	523	1742.8	M	M	G			42.4				GN	20% full, fish remains	
4	WALL	536	1829.8	F	M	G	0.8		42.1				GN	5% full, fish remains	
5	WALL	427	1018.9	F	I				4.9				GN	5% full, dig. material	
6	WALL	470	1193.0	F	M	G			22.3				GN	Empty	
7	WALL	400	799.0	M	M	G			22.6				GN	Empty	
8	WALL	448	1056.9	F	M	G			26.4				GN	20% full, fish remains	
9	WALL	380	634.5	F	M	G			8.9				GN	Empty	
10	WALL	358	569.7	M	M	G			9.3				GN	10% full, digested material	
11	SJCS	240	203.8	F	M	G	0.7		9.4				GN	50% digested material	
12	SJCS	210	136.3	F	M	G			4.4				GN	Empty	
13	SJCS	231	152.3	F	M	G			3.7				GN	10% digested material	
14	SJCS	233	194.9	F	M	G			9.9				GN	25% full, digested material	
15	SJCS	216	155.5	F	M	G			5.6				GN	Empty	
16	SJCS	202	111.4	F	M	G			1.5				GN	5% digested material	
17	SJCS	204	107.0	F	M	G			4.0				GN	Empty	
18	PIKE	582	1232.7	M	M	G			17.8				GN	25% full, fish remains	
19	SJCS	198	119.8	F	M	G			3.4				GN	Empty	
20	SJCS	210	117.7	M	I				3.0				GN	Empty	

AQUATIC ENVIRONMENTS

LIMITED Calgary, Alberta

COLLECTION NO. AOS78-105

LOCATION _____

FISH COLLECTION DATA SHEET

DATE August 23, 1978

SAMPLED BY Tripp, Strugnell

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
21	SJCS	195	113.7	M	I				2.4				GN	Empty	
22	SJCS	232	179.8	F	M	G	0.7		9.4				GN	Empty	
23	SJCS	256	214.9	M	M	G			4.3				GN	Empty	
24	SJCS	227	164.6	F	M	G			6.3				GN	Empty	
25	SJCS	208	108.1	M	I				1.2				GN	Empty	
26	SJCS	255	M	M	G				6.0				GN	Empty	
27	SJCS	242	202.5	F	M	G			6.5				GN	Empty	
28	PIKE	300	1191.8	M	M	G			40.5				GN	50% full, digested material	

AQUATIC ENVIRONMENTS

LIMITED Calgary, Alberta

COLLECTION NO. A0S78-127

LOCATION _____

FISH COLLECTION DATA SHEET

DATE October 18, 1978

SAMPLED BY Strugnell

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	GRAY	276	214.0	M	I				0.7				GN	50% full, stone fly, insect remains	
2	GRAY	238	234.5	F	I				4.0				GN	50% full, corixids	
3	GRAY	225	111.9	M	I				0.2				GN	100% full, fish remains, corixids	

AQUATIC ENVIRONMENTS

LIMITED Calgary, Alberta

COLLECTION NO. AOS78-102
 LOCATION _____

FISH COLLECTION DATA SHEET

DATE August 18, 1978
 SAMPLED BY Tripp, Strugnell

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	LNSK	255	45.0	UI	I								GN	Digested material	Site 1A
2	WTSK	317	514.6	M	M	G			1.6				GN	Digested material	Site 1
3	WTSK	308	429.8	M	M				1.6				GN	Digested material	Site 1
4	WTSK	363	652.4	M	M	G			36.1				GN	Digested material	Site 3
5	LNSK	363	682.4	M	M	G			47.3				GN	Digested material	Site 3
6	PIKE	413	482.4	M	M	G			5.0				GN	100% full, fish remains	Site 1
7	PIKE	340	267.7	M	M	G			3.6				GN	Empty	Site 1A
8	PIKE	238	86.9	M	M	G			0.2				SN	Empty	Gregoire Lake outlet

AQUATIC ENVIRONMENTS

LIMITED Calgary, Alberta

COLLECTION NO. AOS78-103
 LOCATION _____

FISH COLLECTION DATA SHEET

DATE August 20, 1978
 SAMPLED BY Tripp, Strugnell

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	LNSK	174	59.0	F	I								SN	Empty	Site 3
2	LNSK	191	77.9	F	M								SN	Empty	Site 3
3	LNSK	135	29.8	UI	I								SN	Empty	Site 3
4	LNSK	352	495.3	M	M	G			29.4				GN	Empty	Site 3
5	LNSK	280	255.5	F	I				1.1				GN	Digested material	Site 3
6	LNSK	260	206.9	F	I								GN	Digested material	Site 3
7	LNSK	217	125.4	M	I								GN	Digested material	Site 3
8	MTWT	251	202.7	F	I				0.2				GN	100% full, trichoptera	Site 3
9	GRAY	292	244.7	M	M	G			3.3				GN	100% full, trichoptera	Site 4
10	GRAY	251	181.6	F	M	G	1.1	*	17.8				GN	100% full, hornets	Site 4 (*gonads preserved)
11	WTSK	277	279.7	F	M	G	1.1		14.7				GN	Empty	Site 4
12	WTSK	240	176.6	M	M	G			11.9				GN	Empty	Site 4
13	WTSK	245	199.0	F	M	G			8.8				GN	Empty	Site 4
14	LNSK	291	280.0	F	I				1.2				GN	Empty	Site 4
15	LNSK	256	192.0	F	I								GN	Empty	Site 4



**AQUATIC
ENVIRONMENTS**



LIMITED Calgary, Alberta

COLLECTION NO. AOS78-104

FISH COLLECTION DATA SHEET

DATE August 23, 1978

LOCATION _____

SAMPLED BY Tripp, Strugnell

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	GRAY	262	197.4	M	M	G			2.6				SN	100% full, hornets stonefly, spruce corixids needles	Site 3
2	GRAY	221	125.3	F	M	G	1.2		3.9				SN	100% full, hornets corixids, wasp, ant	Site 3



AQUATIC ENVIRONMENTS



LIMITED Calgary, Alberta

COLLECTION NO. AOS78-106
LOCATION _____

FISH COLLECTION DATA SHEET

DATE August 14, 1978
SAMPLED BY Tripp, Strugnell

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	GOLD	289	249.5	F	I				1.5				GN	100% full, insect remains, veg. matter, dytiscids	
2	GOLD	266	220.2	F	I				1.8				GN	50% full, insect remains, veg. matter	
3	WALL	321	371.5	M	I				1.8				GN	Empty	
4	WTSK	358	752.0	M	M	G			23.0				GN		
5	WTSK	309	467.2	M	I								GN		
6	WTSK	376	834.6	M	M	G			32.6				GN		
7	PIKE	518	932.2	F	M	G			8.8				GN	5% full, digested material	
8	GOLD	295	356.9	F	M	G			2.6				GN	75% full, insect remains, veg. matter	

AQUATIC ENVIRONMENTS

LIMITED Calgary, Alberta

COLLECTION NO. AOS78-113

LOCATION _____

FISH COLLECTION DATA SHEET

DATE October 7, 1978

SAMPLED BY Strugnell

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	FLCB	225	138.2	M	I				0.9				GN	80% full, digested material	
2	WALL	435	859.6	M	M	G			15.2				GN	Empty	
3	WALL	365	532.5	M	M	G			10.0				GN	Empty	
4	LNSK	378	742.4	F	M	G			68.1				GN		
5	BURB	370	331.6	M	M	G			30.7				GN	50% full, suckers, fish remains, dig. material	
6	WTSK	305	360.3	M	M	G			15.7				SN		
7	GRAY	201	93.1	U	I								SN	70% full, corixids	

AQUATIC ENVIRONMENTS

LIMITED Calgary, Alberta

COLLECTION NO. AOS78-114
LOCATION _____

FISH COLLECTION DATA SHEET

DATE October 10, 1978
SAMPLED BY Strugnell

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	WTSK	172	60.9	M	I				2.2				GN		



AQUATIC ENVIRONMENTS



LIMITED Calgary, Alberta

COLLECTION NO. A0S78-117

LOCATION _____

FISH COLLECTION DATA SHEET

DATE October 11, 1978

SAMPLED BY Tripp, Strugnell

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	PIKE	213	62.0	U	I				0.1				SN	100% full, gray	

AQUATIC ENVIRONMENTS

LIMITED Calgary, Alberta

COLLECTION NO. A0S78-118
 LOCATION _____

FISH COLLECTION DATA SHEET

DATE October 11, 1978
 SAMPLED BY Tripp, Strugnell

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	PIKE	220	73.4	U	I								SN	25% full, fish remains	
2	PIKE	190	48.2	U	I								SN	Empty	
3	PIKE	156	21.6	U	I								SN	Empty	
4	PIKE	180	34.0	U	I								SN	50% full, SPSH	
5	PIKE	160	25.4	U	I								SN	20% full, fish remains	
6	BURB	290	6612	U	I								SN	50% digested material	
7	BURB	131	15.3	U	I								SN	Empty	

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AQUATIC ENVIRONMENTS

LIMITED Calgary, Alberta

FISH COLLECTION DATA SHEET

DATE October 13, 1978
 SAMPLED BY Tripp, Strugnell

COLLECTION NO. AOS78-121
 LOCATION _____

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	LNSK	122	19.1	U	I								GN		
2	LNSK	129	25.2	F	I								GN		
3	WTSK	124	21.9	F	I								GN		
4	WTSK	124	21.7	M	I								GN		
5	PIKE	506	761.2	F	M	WS			5.7				GN	Empty	
6	PIKE	252	109.9	M	I				0.1				GN	Empty	

AQUATIC ENVIRONMENTS

LIMITED Calgary, Alberta
 COLLECTION NO. A0S78-122
 LOCATION _____

FISH COLLECTION DATA SHEET

DATE October 13, 1978
 SAMPLED BY Tripp, Strugnell

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	PIKE	385	356.1	M	M	G			2.7				GN	Empty	
2	PIKE	674	F	M	G				28.7				GN	Empty	
3	PIKE	568	1236.7	F	M	G			21.6				GN	Empty	
4	PIKE	480	772.2	M	M	G			8.3				GN	Empty	
5	GRAY	297	293.7	F	M	G			19.4				SN	100% full, corixids, dytiscids	
6	GRAY	134	25.2	M	I								SN	100% full, may flies, plecoptera, caddis flies, corixids	
7	GRAY	113	14.1	F	I								SN	100% full, corixids	

AQUATIC ENVIRONMENTS

LIMITED Calgary, Alberta

FISH COLLECTION DATA SHEET

COLLECTION NO. AQS78-123

DATE October 15, 1978

LOCATION _____

SAMPLED BY Tripp, Strugnell

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	PIKE	288	159.5	F	I				1.0				GN	100% full, trout perch, fish remains	
2	PIKE	244	85.8	M	I				0.1				GN	Empty	
3	GRAY	210	102.2	F	I				0.1				GN	100% full, corixids, insect parts	
4	GRAY	240	152.0	F	I				0.3				GN	100% full, corixids trichoptera, odonata	
5	GRAY	256	212.5	F	M	G			7.5				GN	100% full, corixids, trichop. adults, trichop. larvae, fish remains, corixids, veg. matter,	



AQUATIC ENVIRONMENTS



LIMITED Calgary, Alberta

FISH COLLECTION DATA SHEET

COLLECTION NO. AOS78-124

LOCATION _____

DATE October 14, 1978

SAMPLED BY Tripp, Strugnell

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	PIKE	386	382.5	M	M	G			2.8				GN	Empty	
2	PIKE	393	429.5	F	M	G			7.3				GN	75% full, sculpin, digested material	
3	PIKE	479	847.0	M	M	G			11.4				GN	Empty	
4	PIKE	467	678.2	F	M	G			15.3				GN	Empty	
5	PIKE	388	425.0	F	M	WS			2.2				GN	Empty	
6	PIKE	390	416.4	F	M	WS			3.1				GN	50% fish remains	
7	PIKE	328	256.3	M	I				0.9				GN	Empty	
8	PIKE	240	105.2	F	I				0.2				GN	Empty	
9	GRAY	314	356.3	F	M	G			17.7				GN	75% full, corixids, trichop l., plec.n.	
10	GRAY	319	443.9	F	M	G			29.3				GN	100% full, corixids, trichop. larvae	
11	GRAY	310	379.0	F	M	G			20.5				GN	100% full, diving beetles, trichop. ephemeroptera, plecoptera larvae, fish remains, corixids, tabinic	
12	GRAY	244	160.1	F	I				2.2				GN	75% full, corixids	
13	GRAY	288	267.5	M	M	G			3.2				GN	100% full, corixids, trichoptera larvae	
14	GRAY	210	106.1	M	I				0.1				SN	50% full, insect parts, fish remains	

AQUATIC ENVIRONMENTS

LIMITED Calgary, Alberta

COLLECTION NO. AOS78-125

LOCATION _____

FISH COLLECTION DATA SHEET

DATE October 14, 1978

SAMPLED BY Tripp, Strugnell

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	GRAY	190	75.6	F	I				1.2				SN	50% full, corixids	

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AQUATIC ENVIRONMENTS



LIMITED Calgary, Alberta

COLLECTION NO. AOS78-126
LOCATION _____

FISH COLLECTION DATA SHEET

DATE October 14, 1978
SAMPLED BY Tripp, Strugnell

SAMP NO	SPECIES	LENGTH (mm)	WEIGHT (gm)	SEX	MAT	COND	EGGS		GONAD		AGE		CAPT	STOMACH CONTENTS	OTHER INFORMATION
							SIZE	NO	WEIGHT	WIDTH	SC	OTO			
1	WTSK	342	462.0	F	I				4.6				GN		
2	GRAY	341	486.9	M	M	G			6.5				GN	100% full, corixids	
3	PIKE	505	838.1	F	M	G			8.9				GN	50% full, fish remains	

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