

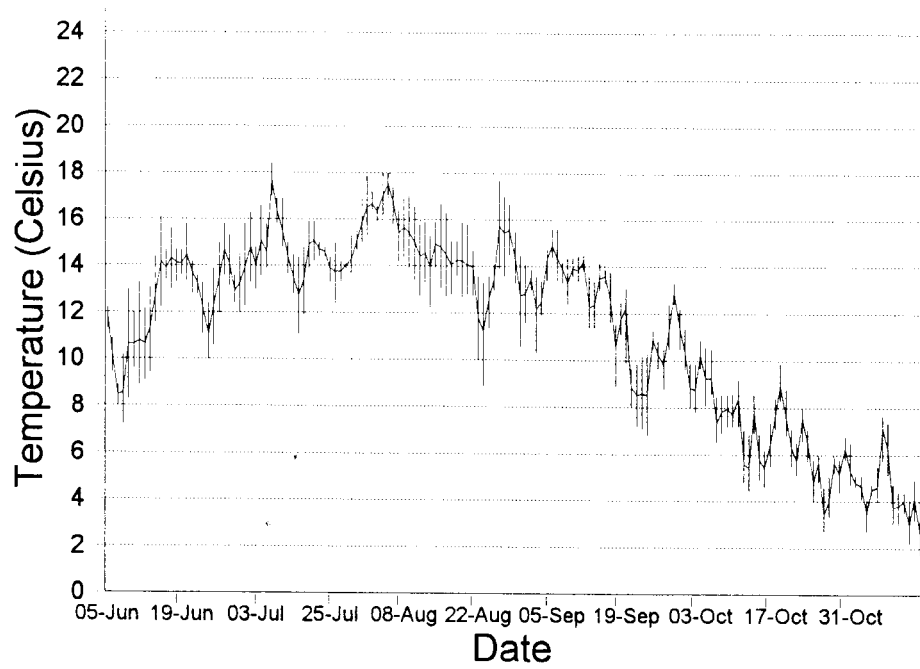
Appendix 1. Buffer strip widths (in metres) measured from each side of the stream bank, 70, 30 and 10 metres below the sampling reach, every 5 metres within the 25-m sampling reach, and 10, 30 and 70 metres above the sampling reach.

Transect	Beginning of sampling reach																																																																																																																																																																							
	-70m		-30m		-10m		0m		5m		10m																																																																																																																																																													
	left	right	left	right	left	right	left	right	left	right	left	right																																																																																																																																																												
STREAM													45	+20	+20	+20	+20	+20	+20	+35	+35	+35	+35	+20	+20	2	+20	+20	+20	+20	+20	+20	+20	+20	+20	+20	+20	+20	11	+30	27	+30	26	+30	25	+30	25	+30	25	+30	25	7	+30	+30	+30	+30	+30	+30	13	+20	12	+20	10	+20	21	+30	7	+30	11	21	11	19.5	12.5	28	10	26.5	10	Haley							+20	+20	+20	+20	+20	+20	25	25	+30	28	+30	25	+30	24	+30	26	+30	25.5	+30	Dustin	0	+20	24	+20	24	+20	26.5	+20	33	+20	+33	+20	41	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	15	0	0	0	0	0	0	0	0	0	0	0	0	McGee	0	0	0	0	0	0	0	0	0	0	0	0	40	+30	+30	+30	+30	12	+30	+20	+20	+20	+20	+20	+20
45	+20	+20	+20	+20	+20	+20	+35	+35	+35	+35	+20	+20	2	+20	+20	+20	+20	+20	+20	+20	+20	+20	+20	+20	+20	11	+30	27	+30	26	+30	25	+30	25	+30	25	+30	25	7	+30	+30	+30	+30	+30	+30	13	+20	12	+20	10	+20	21	+30	7	+30	11	21	11	19.5	12.5	28	10	26.5	10	Haley							+20	+20	+20	+20	+20	+20	25	25	+30	28	+30	25	+30	24	+30	26	+30	25.5	+30	Dustin	0	+20	24	+20	24	+20	26.5	+20	33	+20	+33	+20	41	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	15	0	0	0	0	0	0	0	0	0	0	0	0	McGee	0	0	0	0	0	0	0	0	0	0	0	0	40	+30	+30	+30	+30	12	+30	+20	+20	+20	+20	+20	+20													
2	+20	+20	+20	+20	+20	+20	+20	+20	+20	+20	+20	+20	11	+30	27	+30	26	+30	25	+30	25	+30	25	+30	25	7	+30	+30	+30	+30	+30	+30	13	+20	12	+20	10	+20	21	+30	7	+30	11	21	11	19.5	12.5	28	10	26.5	10	Haley							+20	+20	+20	+20	+20	+20	25	25	+30	28	+30	25	+30	24	+30	26	+30	25.5	+30	Dustin	0	+20	24	+20	24	+20	26.5	+20	33	+20	+33	+20	41	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	15	0	0	0	0	0	0	0	0	0	0	0	0	McGee	0	0	0	0	0	0	0	0	0	0	0	0	40	+30	+30	+30	+30	12	+30	+20	+20	+20	+20	+20	+20																										
11	+30	27	+30	26	+30	25	+30	25	+30	25	+30	25	7	+30	+30	+30	+30	+30	+30	13	+20	12	+20	10	+20	21	+30	7	+30	11	21	11	19.5	12.5	28	10	26.5	10	Haley							+20	+20	+20	+20	+20	+20	25	25	+30	28	+30	25	+30	24	+30	26	+30	25.5	+30	Dustin	0	+20	24	+20	24	+20	26.5	+20	33	+20	+33	+20	41	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	15	0	0	0	0	0	0	0	0	0	0	0	0	McGee	0	0	0	0	0	0	0	0	0	0	0	0	40	+30	+30	+30	+30	12	+30	+20	+20	+20	+20	+20	+20																																							
7	+30	+30	+30	+30	+30	+30	13	+20	12	+20	10	+20	21	+30	7	+30	11	21	11	19.5	12.5	28	10	26.5	10	Haley							+20	+20	+20	+20	+20	+20	25	25	+30	28	+30	25	+30	24	+30	26	+30	25.5	+30	Dustin	0	+20	24	+20	24	+20	26.5	+20	33	+20	+33	+20	41	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	15	0	0	0	0	0	0	0	0	0	0	0	0	McGee	0	0	0	0	0	0	0	0	0	0	0	0	40	+30	+30	+30	+30	12	+30	+20	+20	+20	+20	+20	+20																																																				
21	+30	7	+30	11	21	11	19.5	12.5	28	10	26.5	10	Haley							+20	+20	+20	+20	+20	+20	25	25	+30	28	+30	25	+30	24	+30	26	+30	25.5	+30	Dustin	0	+20	24	+20	24	+20	26.5	+20	33	+20	+33	+20	41	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	15	0	0	0	0	0	0	0	0	0	0	0	0	McGee	0	0	0	0	0	0	0	0	0	0	0	0	40	+30	+30	+30	+30	12	+30	+20	+20	+20	+20	+20	+20																																																																	
Haley							+20	+20	+20	+20	+20	+20	25	25	+30	28	+30	25	+30	24	+30	26	+30	25.5	+30	Dustin	0	+20	24	+20	24	+20	26.5	+20	33	+20	+33	+20	41	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	15	0	0	0	0	0	0	0	0	0	0	0	0	McGee	0	0	0	0	0	0	0	0	0	0	0	0	40	+30	+30	+30	+30	12	+30	+20	+20	+20	+20	+20	+20																																																																														
25	25	+30	28	+30	25	+30	24	+30	26	+30	25.5	+30	Dustin	0	+20	24	+20	24	+20	26.5	+20	33	+20	+33	+20	41	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	15	0	0	0	0	0	0	0	0	0	0	0	0	McGee	0	0	0	0	0	0	0	0	0	0	0	0	40	+30	+30	+30	+30	12	+30	+20	+20	+20	+20	+20	+20																																																																																											
Dustin	0	+20	24	+20	24	+20	26.5	+20	33	+20	+33	+20	41	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	15	0	0	0	0	0	0	0	0	0	0	0	0	McGee	0	0	0	0	0	0	0	0	0	0	0	0	40	+30	+30	+30	+30	12	+30	+20	+20	+20	+20	+20	+20																																																																																																								
41	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	15	0	0	0	0	0	0	0	0	0	0	0	0	McGee	0	0	0	0	0	0	0	0	0	0	0	0	40	+30	+30	+30	+30	12	+30	+20	+20	+20	+20	+20	+20																																																																																																																					
15	0	0	0	0	0	0	0	0	0	0	0	0	McGee	0	0	0	0	0	0	0	0	0	0	0	0	40	+30	+30	+30	+30	12	+30	+20	+20	+20	+20	+20	+20																																																																																																																																		
McGee	0	0	0	0	0	0	0	0	0	0	0	0	40	+30	+30	+30	+30	12	+30	+20	+20	+20	+20	+20	+20																																																																																																																																															
40	+30	+30	+30	+30	12	+30	+20	+20	+20	+20	+20	+20																																																																																																																																																												

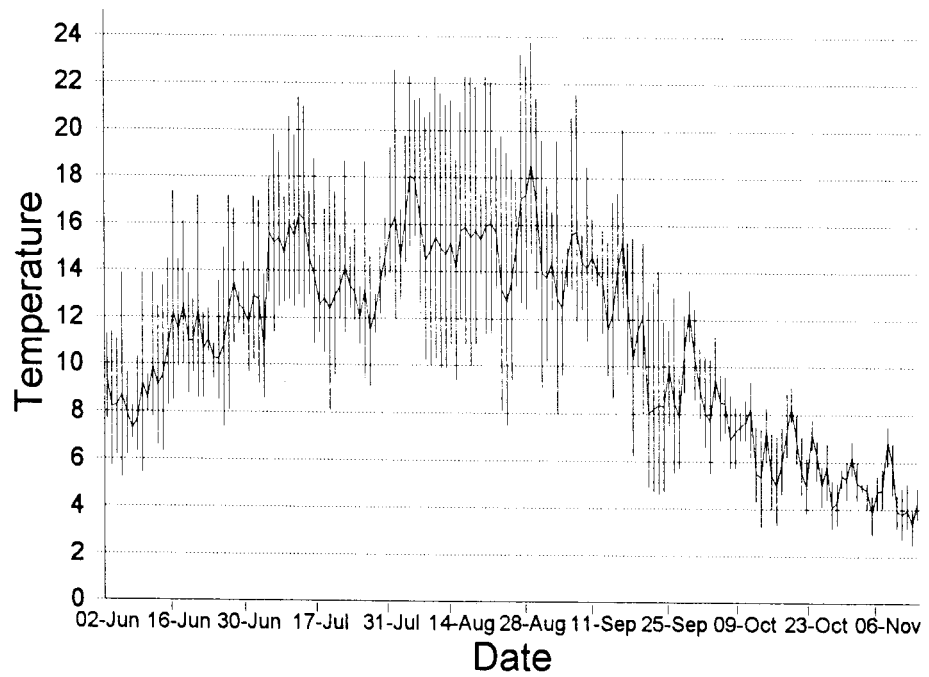
Note: Selective harvesting was observed in the buffer strips of streams #40, #11 and Dustin. The left side of stream #11 and the right side of stream #25 were forested along their sampling reaches. The buffer strip of stream #41 consisted of a very open forest with many budworm killed trees.

Transect	End of sampling reach																																																																																																																																																																							
	15m		20m		25m		+10m		+30m		+70m																																																																																																																																																													
	left	right	left	right	left	right	left	right	left	right	left	right																																																																																																																																																												
STREAM													45	+20	+20	+20	+20	+20	+20	+20	+20	+20	+20	+20	+20	2	+20	+20	+20	+20	+20	+20	+20	+20	+20	+20	+20	+20	11	+30	25	+30	25	+30	25	+30	17	+30	17	+30	6	7	6	+20	5	+20	0	+20	0	+20	0	+20	0	+20	21	23	9.5	21	11	24	11	15.5	13	15	18	14	10	Haley	10	+20	5	+20	5	+20	7	+20	0	0	18	+20	25	24	+30	23	+30	15	+30	16	+30	18	+30	18	+30	Dustin	+33	+20	+30	+20	+30	+20	+30	+30	+30	+30	+30	+30	41	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	15	0	0	0	0	0	0	0	0	0	0	0	0	McGee	0	0	0	0	0	0	0	0	0	0	0	0	40	+20	+20	+20	+20	+20	+20	0	0	+20	+20	+20	+20
45	+20	+20	+20	+20	+20	+20	+20	+20	+20	+20	+20	+20	2	+20	+20	+20	+20	+20	+20	+20	+20	+20	+20	+20	+20	11	+30	25	+30	25	+30	25	+30	17	+30	17	+30	6	7	6	+20	5	+20	0	+20	0	+20	0	+20	0	+20	21	23	9.5	21	11	24	11	15.5	13	15	18	14	10	Haley	10	+20	5	+20	5	+20	7	+20	0	0	18	+20	25	24	+30	23	+30	15	+30	16	+30	18	+30	18	+30	Dustin	+33	+20	+30	+20	+30	+20	+30	+30	+30	+30	+30	+30	41	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	15	0	0	0	0	0	0	0	0	0	0	0	0	McGee	0	0	0	0	0	0	0	0	0	0	0	0	40	+20	+20	+20	+20	+20	+20	0	0	+20	+20	+20	+20													
2	+20	+20	+20	+20	+20	+20	+20	+20	+20	+20	+20	+20	11	+30	25	+30	25	+30	25	+30	17	+30	17	+30	6	7	6	+20	5	+20	0	+20	0	+20	0	+20	0	+20	21	23	9.5	21	11	24	11	15.5	13	15	18	14	10	Haley	10	+20	5	+20	5	+20	7	+20	0	0	18	+20	25	24	+30	23	+30	15	+30	16	+30	18	+30	18	+30	Dustin	+33	+20	+30	+20	+30	+20	+30	+30	+30	+30	+30	+30	41	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	15	0	0	0	0	0	0	0	0	0	0	0	0	McGee	0	0	0	0	0	0	0	0	0	0	0	0	40	+20	+20	+20	+20	+20	+20	0	0	+20	+20	+20	+20																										
11	+30	25	+30	25	+30	25	+30	17	+30	17	+30	6	7	6	+20	5	+20	0	+20	0	+20	0	+20	0	+20	21	23	9.5	21	11	24	11	15.5	13	15	18	14	10	Haley	10	+20	5	+20	5	+20	7	+20	0	0	18	+20	25	24	+30	23	+30	15	+30	16	+30	18	+30	18	+30	Dustin	+33	+20	+30	+20	+30	+20	+30	+30	+30	+30	+30	+30	41	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	15	0	0	0	0	0	0	0	0	0	0	0	0	McGee	0	0	0	0	0	0	0	0	0	0	0	0	40	+20	+20	+20	+20	+20	+20	0	0	+20	+20	+20	+20																																							
7	6	+20	5	+20	0	+20	0	+20	0	+20	0	+20	21	23	9.5	21	11	24	11	15.5	13	15	18	14	10	Haley	10	+20	5	+20	5	+20	7	+20	0	0	18	+20	25	24	+30	23	+30	15	+30	16	+30	18	+30	18	+30	Dustin	+33	+20	+30	+20	+30	+20	+30	+30	+30	+30	+30	+30	41	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	15	0	0	0	0	0	0	0	0	0	0	0	0	McGee	0	0	0	0	0	0	0	0	0	0	0	0	40	+20	+20	+20	+20	+20	+20	0	0	+20	+20	+20	+20																																																				
21	23	9.5	21	11	24	11	15.5	13	15	18	14	10	Haley	10	+20	5	+20	5	+20	7	+20	0	0	18	+20	25	24	+30	23	+30	15	+30	16	+30	18	+30	18	+30	Dustin	+33	+20	+30	+20	+30	+20	+30	+30	+30	+30	+30	+30	41	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	15	0	0	0	0	0	0	0	0	0	0	0	0	McGee	0	0	0	0	0	0	0	0	0	0	0	0	40	+20	+20	+20	+20	+20	+20	0	0	+20	+20	+20	+20																																																																	
Haley	10	+20	5	+20	5	+20	7	+20	0	0	18	+20	25	24	+30	23	+30	15	+30	16	+30	18	+30	18	+30	Dustin	+33	+20	+30	+20	+30	+20	+30	+30	+30	+30	+30	+30	41	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	15	0	0	0	0	0	0	0	0	0	0	0	0	McGee	0	0	0	0	0	0	0	0	0	0	0	0	40	+20	+20	+20	+20	+20	+20	0	0	+20	+20	+20	+20																																																																														
25	24	+30	23	+30	15	+30	16	+30	18	+30	18	+30	Dustin	+33	+20	+30	+20	+30	+20	+30	+30	+30	+30	+30	+30	41	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	15	0	0	0	0	0	0	0	0	0	0	0	0	McGee	0	0	0	0	0	0	0	0	0	0	0	0	40	+20	+20	+20	+20	+20	+20	0	0	+20	+20	+20	+20																																																																																											
Dustin	+33	+20	+30	+20	+30	+20	+30	+30	+30	+30	+30	+30	41	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	15	0	0	0	0	0	0	0	0	0	0	0	0	McGee	0	0	0	0	0	0	0	0	0	0	0	0	40	+20	+20	+20	+20	+20	+20	0	0	+20	+20	+20	+20																																																																																																								
41	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	15	0	0	0	0	0	0	0	0	0	0	0	0	McGee	0	0	0	0	0	0	0	0	0	0	0	0	40	+20	+20	+20	+20	+20	+20	0	0	+20	+20	+20	+20																																																																																																																					
15	0	0	0	0	0	0	0	0	0	0	0	0	McGee	0	0	0	0	0	0	0	0	0	0	0	0	40	+20	+20	+20	+20	+20	+20	0	0	+20	+20	+20	+20																																																																																																																																		
McGee	0	0	0	0	0	0	0	0	0	0	0	0	40	+20	+20	+20	+20	+20	+20	0	0	+20	+20	+20	+20																																																																																																																																															
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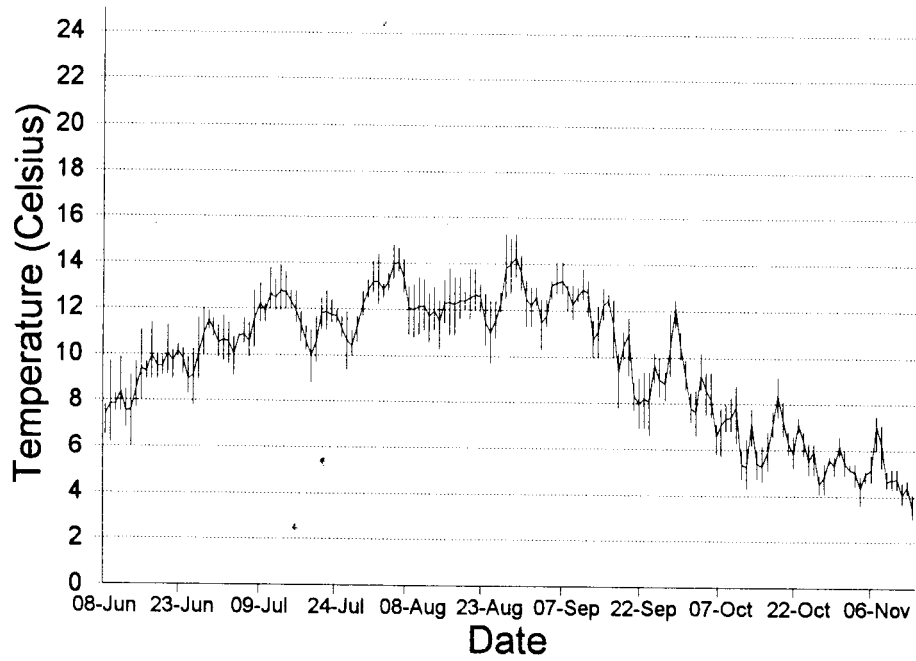
Appendix 2(a) . Mean, maximum and minimum daily temperature for stream #11, forested on one side, with a 6-27 m buffer strip on the other. Cutting occurred in this basin during 1984 and 1987.



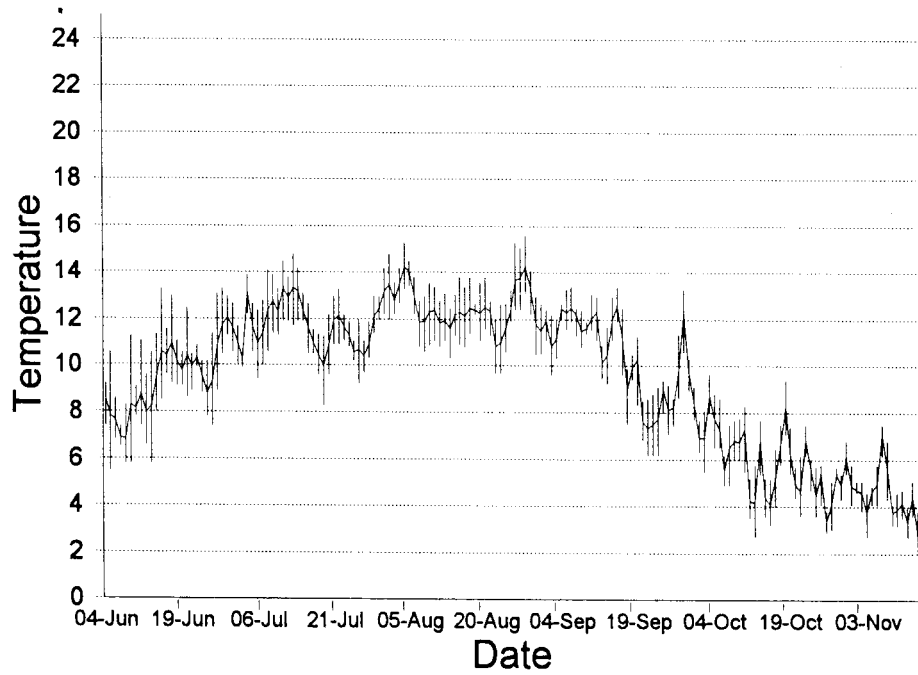
Appendix 2(b). Mean, maximum and minimum daily temperature for stream #15, with no buffer strip. Cutting occurred in this basin during 1979.



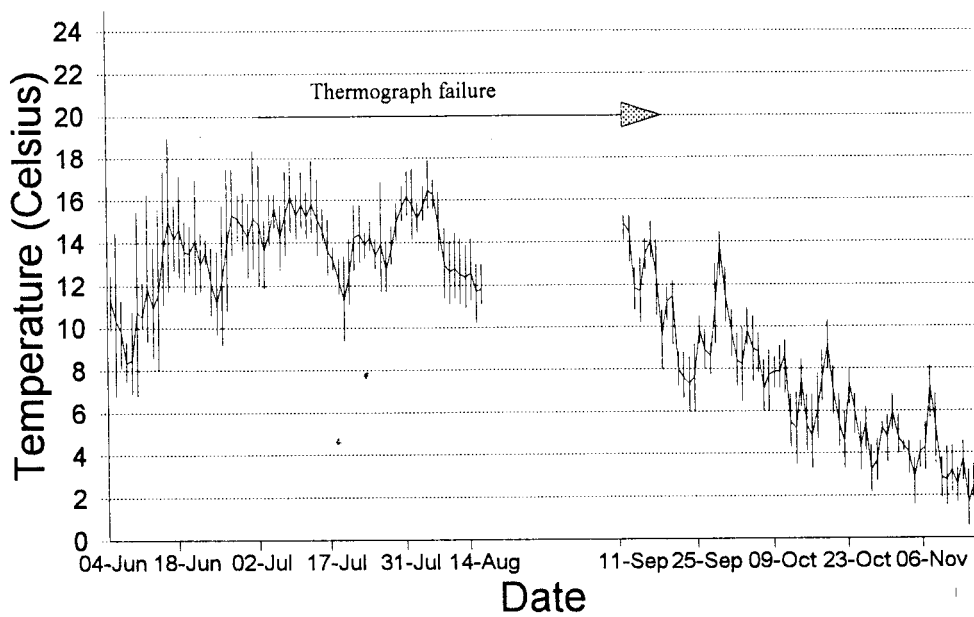
Appendix 2(c). Mean, maximum and minimum daily temperature for the reference stream, Sweeney Brook.



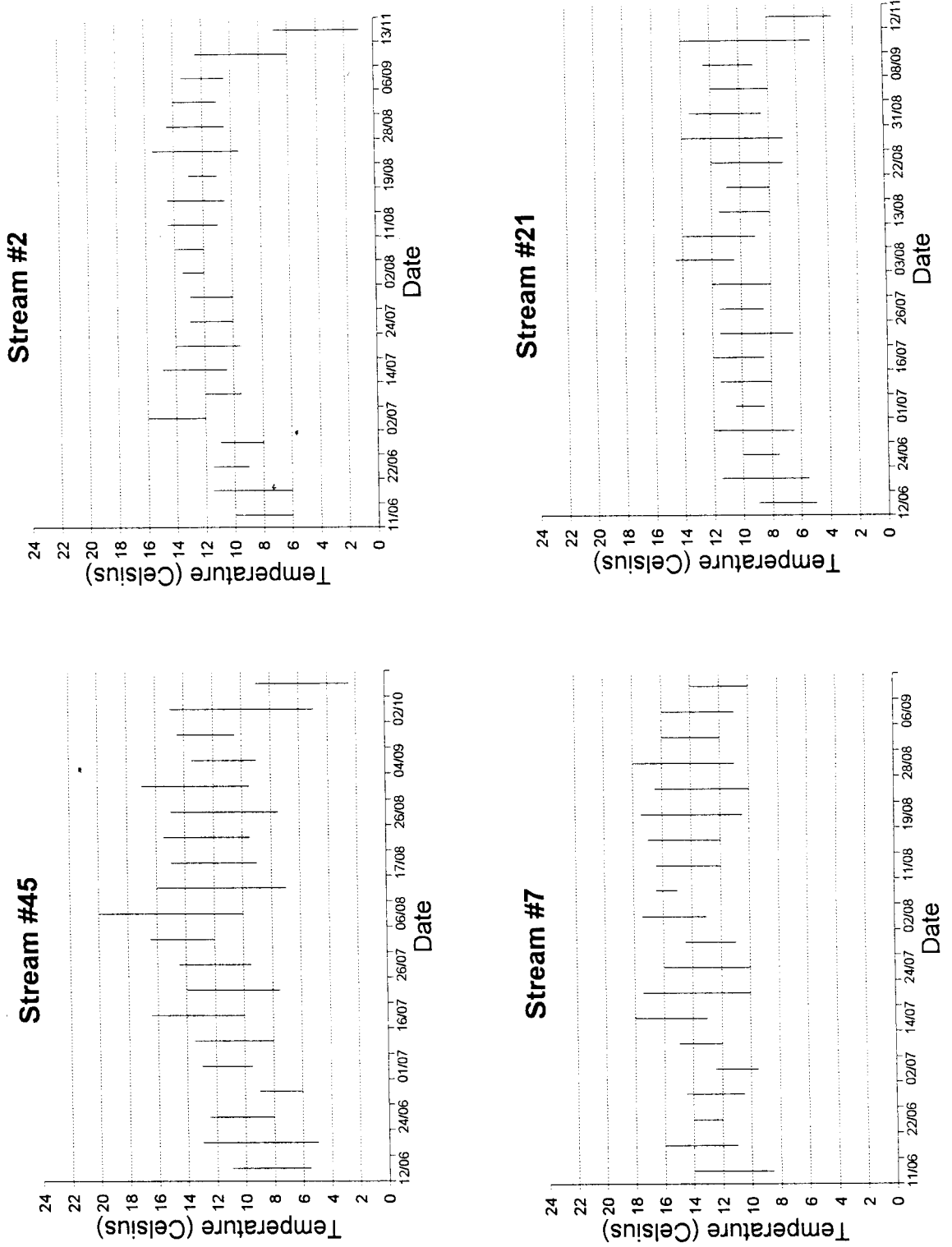
Appendix 2(d). Mean, maximum and minimum daily temperature for the reference stream, Upper Vault.



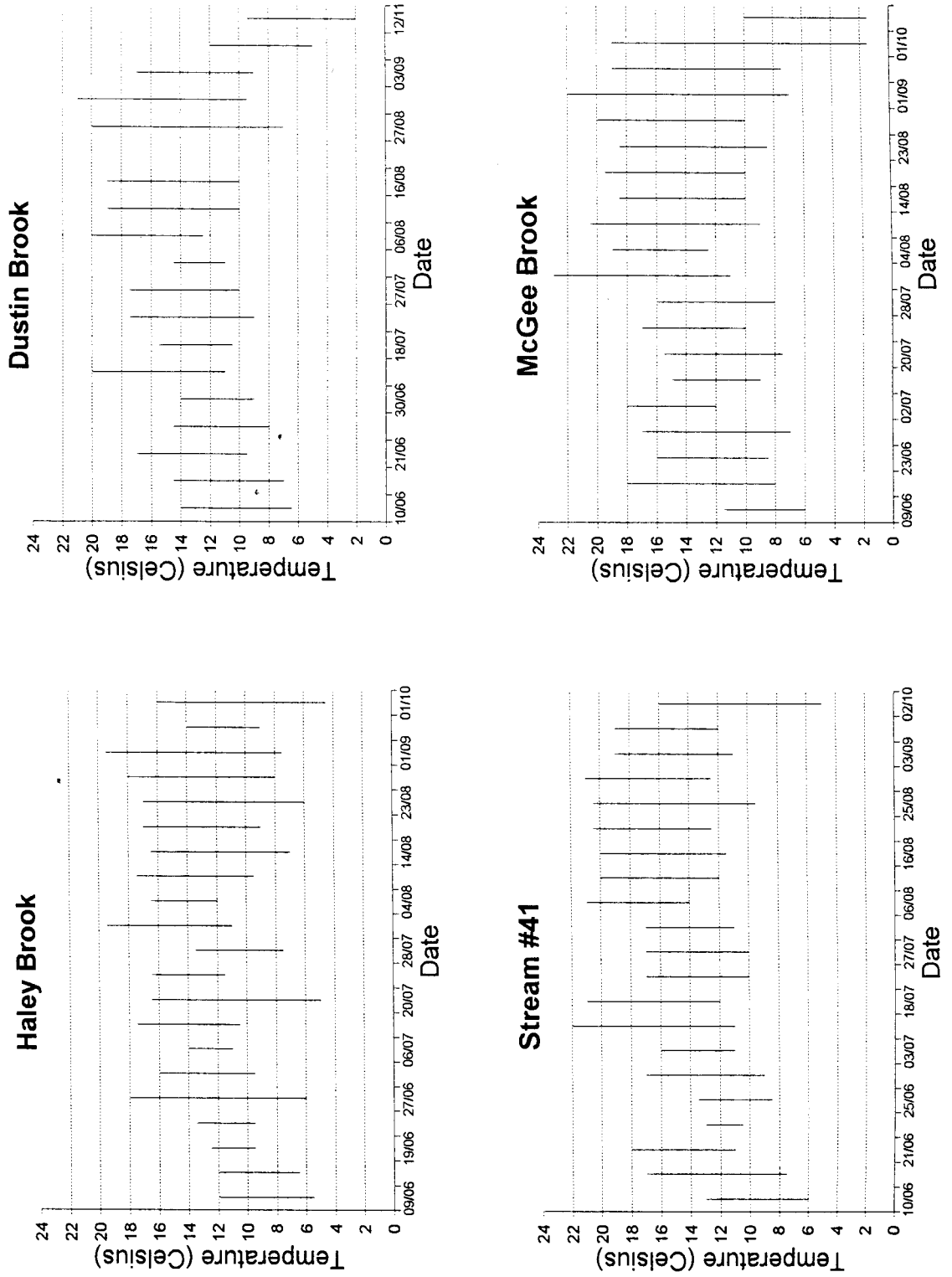
Appendix 2(e). Mean, maximum and minimum daily temperature for stream #25, which flows unprotected through a 1984 clearcut, then enters a buffer strip >15 m on one side, and forested on the other. Thermograph malfunctioned from early July to mid-September.



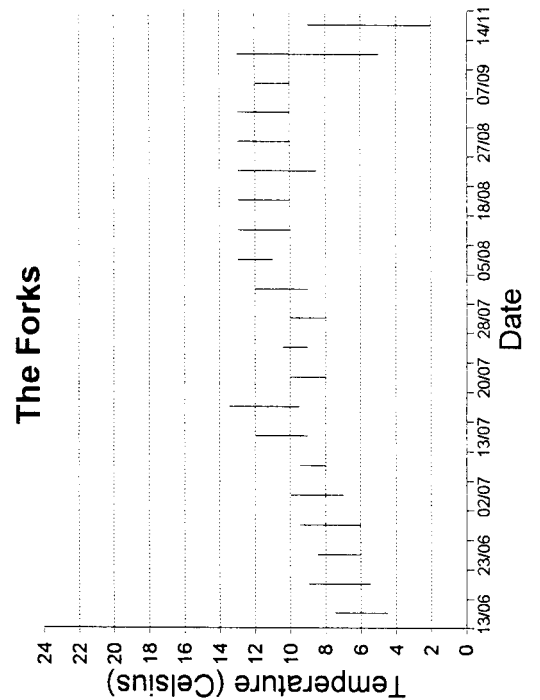
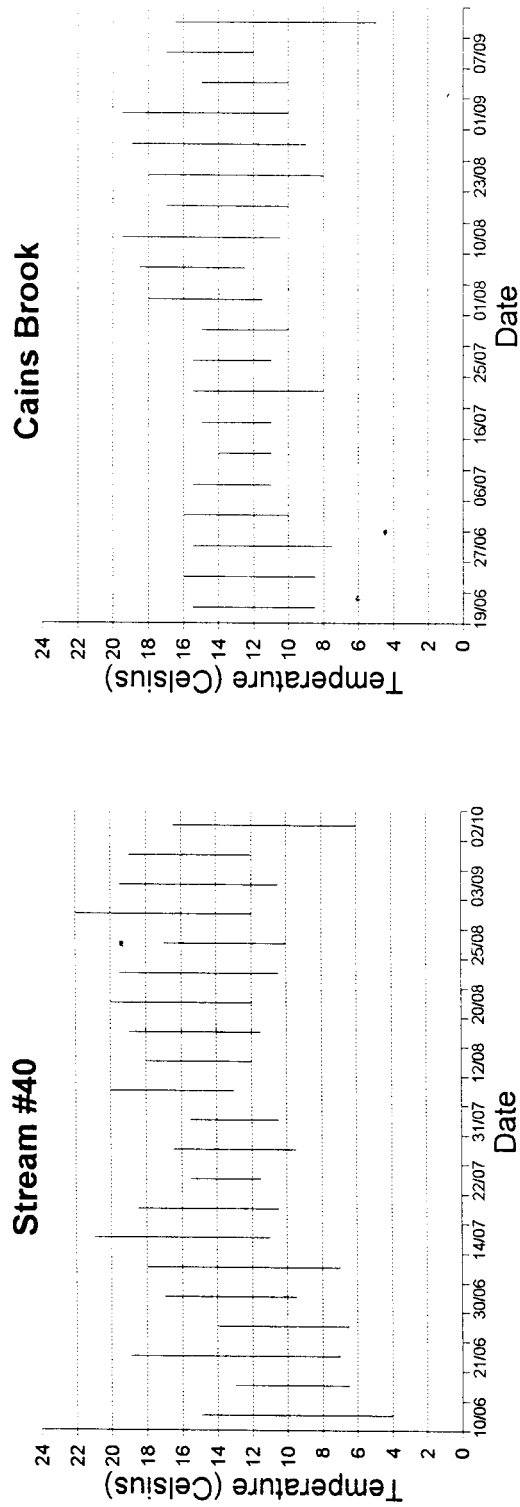
Appendix 3(a). Maximum/minimum thermometer data showing the 4-5 day temperature range of streamwater. Streams #45, #2, #7 and #21 were cutover in the mid-late 1980s.



Appendix 3(b). Maximum/minimum thermometer data showing the 4-5 day temperature range of streamwater. Haley, Dustin and stream #41 were cutover in the early 1980s, and McGee was cutover in 1978.



Appendix 3(c) . Maximum/minimum thermometer data showing the 4-5 day temperature range of streamwater. Stream #40 was clearcut in 1973, and Cains and the Forks are reference streams.



Appendix 4. Pearson correlation coefficients for relationships between physical, chemical and biological variables. Variables with non-normal distributions were transformed in the following ways: age of stand (inverse transformed); snag, shrub and tree density, chloride, magnesium, alkalinity, sodium, channel area and width, and siltation (log transformed); moss cover and nitrogen (square root transformed); and surface fines (arcsine transformed).

	Age of stand	Snag density	Shrub density	Tree density	Tree diversity	Buffer width	Canopy cover
Age of stand	1.00						
Snag density	-0.17	1.00					
Shrub density	-0.04	-0.70*	1.00				
Tree density	0.26	0.64*	-0.65*	1.00			
Tree diversity	0.26	0.35	nc	nc	1.00		
Buffer width	-0.27	0.67*	-0.39	0.54*	nc	1.00	
Canopy cover	0.17	0.50*	-0.67*	0.54*	0.26	0.45	1.00
Moss cover	-0.05	0.71*	-0.80*	0.49	-0.04	0.40	0.46
Chloride	0.16	0.34	nc	nc	-0.47	nc	0.14
Magnesium	0.03	-0.35	nc	nc	0.17	nc	0.07
Alkalinity	0.28	-0.63*	0.66*	-0.32	nc	-0.39	-0.42
Potassium	0.75*	-0.15	-0.13	0.26	nc	-0.10	0.06
Sodium	0.32	0.12	nc	nc	-0.04	nc	0.45
Nitrogen	0.80*	-0.08	nc	nc	0.07	nc	0.10
Maximum temp.	0.09	-0.34	nc	nc	0.03	nc	-0.69*
Area	0.12	0.06	-0.04	-0.16	nc	-0.11	0.12
Width	-0.23	0.22	-0.21	-0.15	0.29	-0.11	0.06
Surface cobble	0.01	0.24	nc	nc	0.60*	nc	0.02
Surface bedrock	0.67*	0.12	nc	nc	0.03	nc	0.42
Surface fines	0.34	-0.15	nc	nc	0.01	nc	0.01
Siltation	0.62*	-0.25	nc	nc	0.41	nc	0.05

* significant at $P < 0.05$

nc Pearson r not calculated; known from larger matrix that variables unlikely to be significantly correlated.

Appendix 4. Continued.

	Moss cover	Chloride	Magnesium	Alkalinity	Potassium	Sodium	Nitrogen
Moss cover	1.00						
Chloride	0.44	1.00					
Magnesium	-0.15	-0.31	1.00				
Alkalinity	-0.47	nc	nc	1.00			
Potassium	0.14	nc	nc	0.30	1.00		
Sodium	0.14	0.45	0.38	nc	nc	1.00	
Nitrogen	0.08	-0.32	0.63*	nc	nc	0.32	1.00
Maximum temp.	-0.37	-0.60*	-0.17	nc	nc	-0.67*	0.12
Area	-0.08	nc	nc	-0.16	-0.11	nc	nc
Width	0.19	0.10	-0.53*	-0.29	-0.36	-0.11	-0.52*
Surface cobble	-0.09	-0.20	0.04	nc	nc	0.05	0.07
Surface bedrock	0.47	0.01	0.33	nc	nc	0.39	0.75*
Surface fines	0.02	-0.12	0.24	nc	nc	-0.11	0.16
Siltation	-0.13	-0.63*	0.59*	nc	nc	-0.02	0.62*

Appendix 4. Continued.

	Maximum temperature	Area	Width	Surface cobble	Surface bedrock	Surface fines	Siltation
Maximum temp.	1.00						
Area	nc	1.00					
Width	-0.01	0.74*	1.00				
Surface cobble	-0.07	nc	0.21	1.00			
Surface bedrock	-0.15	nc	-0.20	0.00	1.00		
Surface fines	0.14	nc	-0.13	-0.37	-0.04	1.00	
Siltation	0.35	nc	-0.12	0.08	0.51	0.10	1.00

* significant at P = 0.05

nc Pearson r not calculated; known from larger matrix that variables unlikely to be significantly correlated.

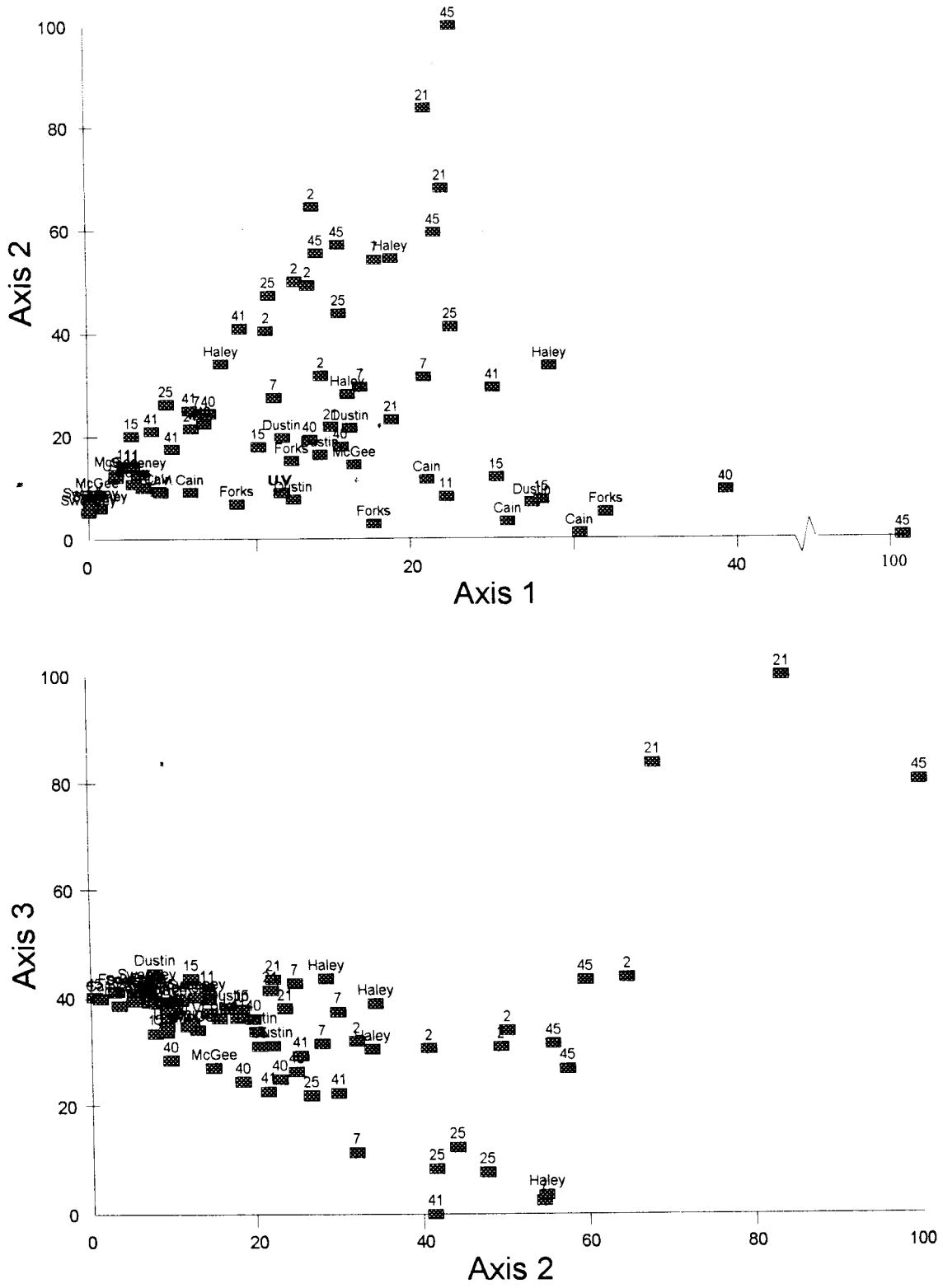
Appendix 5. Invertebrate abundance of each taxonomic group in each rockball for all 16 streams.

STREAM	DIPTERA										PSYCHODIDAE	OTHER DPT	OLIGOCHAETE	PELECYPODA	COPEPODA	COLLEMBOLA	ARACHNIDA	ANISOPTERA	TOTAL PER ROCKBALL	PER AVERAGE # PER SAMPLE
	ROCKBALL	EPHEMEROPTERA	PLECOPTERA	COLEOPTERA	ELMIDAE	TRICHOPTERA	DIPTERA	CHIRONOMIDAE	SIMULIIDAE	IPSIDAE										
#45	1	12	54			20	69	391	4									9	560	198.00
#45	2	6	35		2	3	52		2		1							3	105	
#45	3	1	15			5	15		1									10	48	
#45	4	3	31		1	4	47	5	4		1							7	104	
#45	5	17	23			16	60											7	123	
#2	1	4	15			7	43		1									1	71	174.20
#2	2	23	21		6	1	71		1									16	138	
#2	3	5	44		3		85		7									4	148	
#2	4	18	49		10		196	14	8									4	299	
#2	5	8	64		17		116		5			1						4	215	
#11	1	4	15		6		219	43	3		1							1	292	362.75
#11	2	2	13		2		196	1										3	217	
#11	3	13	22		2	9	377											3	426	
#11	4	5	36		1	3	462	2	3									4	516	
#7	1	3	18		1	19	175	2	7			1						5	231	201.20
#7	2	17	23		2	23	163	8	7			1						2	246	
#7	3	32	9		9		75	13										1	139	
#7	4	11	13		1	5	96	11	4									5	146	
#7	5	81	29		16		100	8	4									6	244	
#21	1	13	38		12		174	21	10									60	332	252.40
#21	2	9	30		30		196	27	5									4	301	
#21	3	10	15		25		208	21	3									9	291	
#21	4	4	19		6		69	5	4									32	142	
#21	5	3	14		17		153	2	4									3	196	
Haley	1	11	22		1	8	131	1	4			1						7	186	334.75
Haley	2	53	62		2	11	101	7	6									1	244	
Haley	3	30	151		4	50	361	96	14			4						7	722	
Haley	4	10	15		1	4	130	14	3			1						9	187	
#25	1	66	60		6	2	180	12	1									5	332	214.75
#25	2	55	40		6	4	119	22	2									2	250	
#25	3	29	12		6	1	154		2									2	206	
#25	4	15	13		3	1	37					1						1	71	
Dustin	1	7	14		3	36	211	21	1									2	296	283.60
Dustin	2	2	13		2	29	221	59	1			1						1	328	
Dustin	3	14	29		5	23	195	22	1									1	292	
Dustin	4	1	3		1	10	158	16				1						1	192	
Dustin	5	10	32		1	3	229	16	1									1	310	

Appendix 5. Continued.

STREAM	ROCKBALL	EPHEMEROPTERA	PLECOPTERA	COLEOPTERA	ELMIDAE	TRICHOPTERA	DIPTERA	SMALLIDAE	TIPULIDAE	ATHERICIDAE	CERATOPOGONIDAE	EMPHIDIDAE	INTYMOPTIDAE	PSYCHODIDAE	OTHER DIPT	OLIGONEURAE	PELECYPODA	COLEMBOLA	ARACHNIDA	ANSOCTERA	TOTAL PER ROCKBALL	AVERAGE # PER SAMPLE	
#41	1	2	4		1	2	13	3	1							1				1	25	128.80	
#41	2	5	11			4	120	2								1					145		
#41	3	12	26		3	4	154	1													201		
#41	4	22	8		4	3	44					1									82		
#41	5	24	10		3	3	151														191		
#15	1	4	16		5	14	258	60								9					366	424.80	
#15	2	6	27		4	46	302	17	2		1				2						408		
#15	3	19	7	3	17	4	222		1						5						278		
#15	4	9	16	6	12	14	509	10	5		7	4		1							593		
#15	5	22	25		6	1	328	91			2	3		1							479		
McGee	1	64	23		6	3	486	63	5		1	2	1		1						636	673.00	
McGee	2	45	17		9	5	706	2	6	1		2		4							797		
McGee	3	9	16		1	4	551		3		1	1		1							587		
#40	1	32	12		1	6	184	22	2						2						269	243.20	
#40	2	20	11		1	3	123	3													163		
#40	3	44	26		2	10	278	129							1						489		
#40	4	3	11		2	3	86	8													115		
#40	5	22	13		2	8	143	3	1												190		
Cain	1	7	10			8	350	105	1						1						482	518.20	
Cain	2	16	17		1	18	506	21	1		3										583		
Cain	3	16	18		1	4	478	13	3	1											535		
Cain	4	25	17		1	17	323	60	6				3		2						454		
Cain	5	14	13		1	7	402	99			2										539		
Sweeney	1	2	9		1	5	502	3	3												525	592.50	
Sweeney	2	1	6		1	10	533	1													552		
Sweeney	3	6	14		1	30	411	3	8					1							474		
Sweeney	4	2	6		1	22	776		5		1	2		3							818		
Upper Vault	1	37	10		1	5	506	48	1												610	810.00	
Upper Vault	2	56	14		4	17	775	73	4		4				1						948		
Upper Vault	3	17	11		1	10	752		3		2	2									800		
Upper Vault	4	24	12		1	17	680	19	6		1	1		2							763		
Upper Vault	5	41	31			14	832	1	5		1	3		2							930		
Forks	1	3	21			18	434	4	5												485	240.20	
Forks	2	2	13		7	7	170	55	4												251		
Forks	3	0	5		5	5	171	12	4												197		
Forks	4	1	9		4	4	77	6	1		1	1									101		
Forks	5	1	1		6	6	136	21	2												167		
Total per taxa		1242	1627	14	141	830	19095	1818	211	3	6	43	22	9	4	284	10	1	1	2	1		

Appendix 6. The arrangement of stream sites based on correspondence analysis of invertebrate data using each sample from every stream site. Axis 1 x Axis 2, and Axis 2 x Axis 3 are shown.



Appendix 7. Latin names and the corresponding common names of plant and fish species referred to in this study.

Latin name	Common name(s)
Plant species	
<i>Abies balsamea</i> (L.)	Balsam Fir
<i>Acer pensylvanicum</i> L.	Moosewood, Striped Maple
<i>Acer rubrum</i> L.	Red Maple
<i>Acer saccharum</i> Marsh.	Speckled Alder
<i>Acer spicatum</i> Lamb.	Sugar Maple
<i>Alnus incana</i> ssp. <i>rugosa</i> (Du Roi)	Mountain Maple
<i>Amelanchier</i> spp.	Juneberry, Serviceberry, Shadbush
<i>Betula alleghaniensis</i> Britt.	Yellow Birch
<i>Betula papyrifera</i> Marsh.	White or Paper Birch
<i>Cornus rugosa</i> Lam.	Round-leaved Dogwood
<i>Cornus</i> spp.	Dogwood
<i>Corylus cornuta</i> Marsh.	Beaked Hazelnut
<i>Fagus grandifolia</i> Ehrh.	American Beech
<i>Fraxinus nigra</i> Marsh.	Black Ash
<i>Lonicera</i> spp.	Honeysuckle
<i>Nemopanthus mucronata</i> (L.) Trél.	Mountain-Holly
<i>Picea glauca</i> (Moench) Voss	White Spruce
<i>Picea rubens</i> Sarg.	Red Spruce
<i>Prunus pensylvanica</i> L.F.	Pin, Bird or Fire Cherry
<i>Prunus virginiana</i> L. var. <i>virginiana</i>	Choke Cherry
<i>Rubus</i> spp.	Salmon Berry
<i>Salix bebbiana</i> Sarg.	Long-beaked Willow
<i>Salix discolor</i> Muhl.	Pussy-Willow
<i>Salix</i> spp.	Willow
<i>Sambucus racemosa</i> L.	Red-berried Elder
<i>Sorbus americana</i> Marsh.	American Mountain-Ash
<i>Spirea</i> spp.	Spirea
<i>Thalictrum pubescens</i> Pursh	Meadow-rue
<i>Viburnum cassinoides</i> L.	Witherod, Wild Raisin
<i>Viburnum trilobum</i> Marsh.	Highbush Cranberry
Fish species	
<i>Oncorhynchus keta</i> Walbaum	Chum Salmon
<i>Oncorhynchus kisutch</i> Walbaum	Coho Salmon
<i>Oncorhynchus tshawytscha</i> Walbaum	Chinook Salmon
<i>Salmo salar</i> L.	Atlantic Salmon
<i>Salmo trutta</i> L.	Brown Trout
<i>Salvelinus fontinalis</i> Mitchill	Brook Trout