

ECOLOGICAL STUDIES ON PERCOLATING FILTERS
AND STREAM RIFFLES ASSOCIATED WITH THE
DISPOSAL OF DOMESTIC AND INDUSTRIAL WASTES

VOLUME 2

APPENDIX TABLES 1 TO 131

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Abbreviations to Appendix Tables

Colour bl. - black
br. - brown
cls. - colourless
gr. - grey

Clarity
cl. - clear
t. - turbid
tr. - translucent

Weed types

B. - Batrachospermum sp.
bl.gr.- blue-green algae
Cal. - Calitriche sp.
Cl. - Cladophora sp.
gr. - grass
m. - moss
P.c. - Potamogeton crispus
P.p. - Potamogeton pectinatus
S. - Sium sp.
St. - Stigeoclonium sp.

Station 1 RIVER STOUR

TABLE 1

Year 1967 - 1968

Month	7	8	9	10	11	12	1	2	3	4	5	6
Platyhelminthes												
Turbellaria	-	1	-	-	-	-	-	-	-	-	-	-
Oligochaeta												
Tubificidae	48	8	1	1	4	-	-	-	7	10	10	14
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-
Lumbricidae	-	-	-	1	1	-	-	-	-	-	-	-
Naididae	-	-	-	-	-	-	-	-	-	-	-	-
Hirudinea												
Erpobdellidae	-	1	-	2	-	-	-	1	-	1	1	-
Glossiphoniidae	-	-	1	-	-	-	-	-	-	-	-	-
Crustacea												
Asellus aquaticus	-	-	-	-	-	-	-	1	-	1	-	-
Gammarus pulex	152	953	648	572	46	-	-	26	28	40	5	39
Insecta												
Ephemeroptera	-	3(2)	1	-	-	-	-	-	2	1	1	-
Baetis rhodani	78	98	102	4	1	-	-	32	60	85	12	-
Sialis spp.	-	2	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csl	1	4	4(2)	1	-	-	-	-	1	1	1	3
Trichoptera - csls	-	-	-	2	1	-	-	-	-	-	-	-
Coleoptera larvae	19	54(2)	62(2)	17	-	-	-	8(2)	-	3	-	-
Coleoptera adults	2	9(2)	22	1	-	-	-	-	-	-	-	-
Chironomidae	374	192(3)	26	2	4	-	-	2	5	42	33(2)	14(2)
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	5	-	86	-	-	-	-	-	-	-	-	-
Tipulidae	4(2)	12	3(2)	-	-	-	-	5	1	2	-	-
Other Diptera	1	-	-	-	-	-	-	-	-	1	-	-
Arachnida												
Hydracarina	-	1	-	-	-	-	-	-	-	5(2)	-	1
Mollusca												
P. jenkinsi	-	-	3	3	2	-	-	5	-	3	3	1
Limnaea pereger	-	7	9	33	13	-	-	12	9	5	5	2
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-
Ancylidae sp.	6	9	3	14	1	-	-	6	4	7	2	4
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	4	6	3	7	32	-	-	1	1	6	3	-
Number of animals	694	1360	974	660	105	-	-	99	118	213	76	78
Number of species	13	19	17	13	10	-	-	12	10	17	12	9
Trent Biotic Index	.7	9	8	6	5	-	-	6	6	8	7	5
Chandler Score	562	852	864	522	340	-	-	495	480	692	459	321
Diversity Index	1.96	1.56	1.78	0.90	2.14	-	-	2.69	2.14	2.62	2.59	2.08
Physical and chemical data												
Temperature °C	7	7	13	10	8	-	-	2	4	4	8	12
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	-
pH	-	-	-	-	-	-	-	-	-	-	-	-
Width in metres	2.0- 2.5	2.0- 3.0	2.5- 3.0	2.0 3.0	2.0- 2.5	-	-	2.5	1.8- 2.0	2.0- 2.5	2.5	2.5
Depth in cms	6	7.5	6	6	20-30	-	-	6	6	6	6	7.5
Current, m/sec	0.3	0.3	0.3	0.3	0.4	-	-	0.3	0.3	0.3	0.3	0.3
Colour	cls	cls	br	cls	br	-	-	br	cls	cls	cls	cls
Clarity	cl	cl	t	cl	t	-	-	tr	cl	cl	cl	cl
% Weed cover	95	50	-	15	-	-	-	15	15	25	50	25
Weed types	Cl	Cl	Cl	Cl	-	-	-	Cl	Cl	Cl	Cl	Cl

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	1 RIVER STOUR												TABLE 2
Year	1968 - 1969												
Month	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	1	-	-	-	-	-	-	-	-	-	-	-	
Oligochaeta													
Tubificidae	20	5	19	18	18	16	68	42	13	19	33	17	
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-	
Lumbricidae	1	-	-	1	-	2	-	-	-	2	1	-	
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	
Hirudinea													
Erpobdellidae	-	-	1	3	4	-	-	1	-	2	-	-	
Glossiphoniidae	1	-	8	-	1	2	7	3	2	1	3	-	
Crustacea													
Asellus aquaticus	-	-	-	-	-	-	-	-	-	-	-	-	
Gammarus pulex	46	5	21	6	4	16	4	22	5	3	8	-	
Insecta													
Ephemeroptera	-	-	-	-	8	1	2	11	9	25	66	12	
Baetis rhodani	64	19	60	-	8	3	9	160	187	192	262	81	
Sialis spp.	1	-	-	1	1	-	1	3	-	-	-	-	
Plecoptera	-	-	-	-	-	1	1	2	3(2)	4(2)	1	-	
Trichoptera - csd	3(2)	3	19(2)	7	4(2)	3	5(2)	4(2)	4(2)	3	-	4	
Trichoptera - csls	-	-	-	1	1	2(2)	2	10(2)	2	1	6	-	
Coleoptera larvae	2(2)	1	6(2)	5(2)	2	2(2)	2(2)	3	2(2)	2	1	-	
Coleoptera adults	2	4	4(2)	10(2)	7(2)	-	-	2	-	-	1	-	
Chironomidae	47(2)	100(3)	132(2)	19	6	8	23	65	50	67	21(2)	10	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	2	2	7	1	4	1	98	10	3	1	-	
Tipulidae	1	1	-	2	-	1	2	-	3(3)	1	-	1	
Other Diptera	-	-	-	-	-	-	-	2	-	-	-	-	
Arachnida													
Hydracarina	3	-	-	-	2	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	30	56	41	21	42	17	29	31	22	2	6	-	
Limnaea pereger	35	78	141	90	95	57	42	45	21	4	5	2	
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-	
Ancylidae sp.	17	1	3	5	5	3	8	13	10	5	5	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	7	3	57	14	27	17	45	26	6	-	6	-	
Number of animals	281	278	514	210	236	155	251	543	349	336	426	127	
Number of species	19	14	16	17	19	19	19	21	21	18	17	7	
Trent Biotic Index	8	7	8	8	8	9	9	9	10	10	9	6	
Chandler Score	727	517	632	690	862	897	947	963	1094	880	660	348	
Diversity Index	3.10	2.35	2.89	2.94	2.92	3.08	3.09	3.20	2.53	2.12	2.01	1.71	
Physical and chemical data													
Temperature °C	13	15	12	13	5	7	4	4	1	3	9	9	
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	-	-	-	-	
Width in metres	1.8- 3.0	2.4- 3.0	1.8- 3.0	2.0- 3.0	1.8- 3.3	3.0	3.0	1.8- 3.0	1.8- 3.0	1.8- 3.0	1.8- 3.0	2.0- 3.0	
Depth in cms	6	5	5	7.5	7.5	7.5	7-15	5	5	5	5	7.5	
Current, m/sec	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.3	0.3	0.3	0.3	0.3	
Colour	cls	cls	cls	cls	cls	cls	br	cls	cls	cls	cls	cls	
Clarity	cl	cl	cl	cl	cl	cl	t	cl	cl	cl	cl	cl	
% Weed cover	50	75	50	20	25	5	-	5	10	25	50	25	
Weed types	C1	C1	C1	C1	C1	C1	-	C1	C1	C1	C1	C1	

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	1. RIVER STOUR							TABLE 3					
Year	1969 - 1970												
Month	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta													
Tubificidae	14	19	15	25	-	5	8	2	16	42	18	12	
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-	-
Lumbricidae	-	1	-	-	1	1	-	1	1	1	1	-	-
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	-
Hirudinea													
Erpobdellidae	-	1	1	2	1	1	-	-	-	-	1	-	-
Glossiphoniidae	-	1	3	-	-	1	1	1	2	-	3	-	-
Crustacea													
Asellus aquaticus	-	-	-	-	-	-	-	-	-	-	-	-	-
Gammarus pulex	16	64	58	49	63	38	31	14	5	1	5	2	
Insecta													
Ephemeroptera	9(2)	-	-	2	1	-	-	2	1	2	5	-	-
Baetis rhodani	114	4	63	100	41	13	22	94	125	61	70	3	
Sialis spp.	-	-	-	-	-	-	2	2	1	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	1	1	-	-
Trichoptera - csd	6(2)	11(2)	11(2)	4(2)	12(2)	1	3	6	10	5(2)	4	1	
Trichoptera - csls	-	2	19	117	83(2)	48(3)	26	8	42	12	11	3	
Coleoptera larvae	1	-	4(2)	3(3)	-	-	-	-	1	-	-	-	-
Coleoptera adults	23(3)	9	16(2)	4(2)	-	-	1	-	-	-	1	9	
Chironomidae	52	33	54(2)	64(2)	33(2)	35	19(2)	3(2)	23(2)	45(2)	69(2)	98(2)	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	-	2	3	2	-	-	1	2	14	2	-	-	-
Tipulidae	-	4	5	2(2)	3	3	3(2)	-	2	1	1	-	-
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	-
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca													
P. jenkinsi	3	78	156	60	130	32	58	30	103	15	16	37	
Limnaea pereger	2	18	22	19	14	14	21	7	13	-	3	-	-
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-	-
Ancylidae sp.	2	2	3	4	2	2	1	-	3	-	2	1	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	2	15	34	27	37	71	58	34	80	37	52	26	
Number of animals	244	264	468	484	421	265	255	206	441	226	263	193	
Number of species	15	17	18	20	16	16	17	15	18	15	18	11	
Trent Biotic Index	8	8	8	8	8	8	8	8	8	9	9	7	
Chandler Score	705	738	743	894	671	622	709	592	764	674	738	403	
Diversity Index	2.56	2.99	3.08	3.06	2.83	2.95	3.05	2.53	2.87	2.74	2.84	2.13	
Physical and chemical data													
Temperature °C	15	15	12	8	10	4	1	4	1	4	8	14	
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-
pH	-	-	-	-	-	-	-	-	-	-	-	-	-
Width in metres	1.8-3.0	1.8-3.0	2.0-3.0	2.0-3.0	1.8-2.6	2.0-3.0	2.0-3.0	2.4-3.0	2.0-2.6	2.0-2.6	2.1-2.6	1.8-2.5	
Depth in cms	5	7.5	7.5	5	7-15	5	5	25	5	5	5	5	
Current, m/sec	0.3	0.4	0.3	0.3	0.5	0.3	0.3	0.4	0.3	0.3	0.3	0.3	
Colour	br.	cls	cls	cls	br	cls	cls	br	cls	cls	cls	cls	
Clarity	t	cl	cl	cl	t	cl	cl	t	cl	cl	cl	cl	
% Weed cover	90	5	-	-	-	-	5	-	5	5	25	50	
Weed types	C1	C1	-	-	B	B	C1	-	C1	C1	C1	C1	

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Station	1. RIVER STOUR												TABLE 4
Year	1970 - 1971												
Month	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta													
Tubificidae	19	19	5	5	2	11	8	3	-	8	12	15	
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-	
Lumbricidae	1	-	-	1	-	-	-	-	-	-	-	-	
Naididae	-	-	-	-	-	-	-	-	-	-	38	-	
Hirudinea													
Erpobdellidae	-	-	-	1	7	2	-	-	-	-	-	-	
Glossiphoniidae	3	6	-	3	1	2	1	1	-	2	-	2	
Crustacea													
Asellus aquaticus	1	-	-	-	-	-	-	-	-	-	-	-	
Gammarus pulex	25	63	19	28	25	18	14	1	2	-	-	-	
Insecta													
Ephemeroptera	1	1	-	-	-	-	5	3	-	3	16	-	
Baetis rhodani	135	16	52	40	20	12	85	12	15	66	39	31	
Sialis spp.	-	-	1	-	-	-	-	-	-	-	-	-	
Plecoptera	-	1	-	-	-	-	1	-	-	-	-	-	
Trichoptera - csls	9(2)	10	2	5	2	15	1	-	1	1	1	34(2)	
Trichoptera - csls	-	-	18	21	31	31	15	3	5	6	8	2	
Coleoptera larvae	5	19(3)	1	-	1	2(2)	-	-	-	-	-	2(2)	
Coleoptera adults	14	40(3)	5	2(2)	1	2	-	1	-	-	-	3	
Chironomidae	42(3)	66(2)	23(2)	104(3)	18	16(3)	70(3)	7	38(3)	47(2)	39(2)	242(2)	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	10	1	2	1	8	109	8	9	4	-	1	
Tipulidae	2	4(2)	1	-	3	1	1	-	1	-	2	-	
Other Diptera	-	-	-	-	1	4	-	-	-	-	-	-	
Arachnida													
Hydracarina	1	5	-	-	-	-	1	-	-	-	-	-	
Mollusca													
P. jenkinsi	205	282	23	23	40	220	38	10	1	3	7	-	
Limnaea pereger	12	118	15	44	11	31	15	2	2	-	1	-	
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-	
Ancylidae sp.	3	2	-	1	1	3	-	1	-	1	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	65	108	3	5	4	16	2	-	2	-	-	1	
Number of animals	543	770	169	285	169	394	367	52	76	141	163	333	
Number of species	20	20	15	18	16	19	17	12	12	11	11	12	
Trent Biotic Index	8	9	7	8	8	8	9	7	7	7	7	7	
Chandler Score	726	891	563	614	667	767	683	517	431	469	411	493	
Diversity Index	2.67	2.94	2.97	2.81	3.15	2.51	2.72	3.08	2.24	2.04	2.66	1.45	
Physical and chemical data													
Temperature °C	11	15	14	10	9	8	0.5	2	3.5	6	12	11	
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	-	-	-	-	
Width in metres	1.8-	1.8-	1.8-	1.8-	1.8-	1.8-	1.8-	1.8-	1.8-	1.8-	1.8-	1.8-	
	2.5	2.5	2.5	2.5	2.6	2.6	2.6	2.5	3.0	2.6	2.6	2.5	
Depth in cms	5	5	5	7.5	7.5	7-25	5	7-15	7-15	5	7.5	5-15	
Current, m/sec	0.3	0.3	0.3	0.3	0.3	0.9	0.3	0.4	0.9	0.3	0.3	0.3	
Colour	cls	cls	cls	cls	cls	br	cls	cls	br	cls	cls	cls	
Clarity	cl	cl	cl	cl	cl	t	cl	cl	t	cl	cl	cl	
% Weed cover	-	75	-	5	-	-	5	5	-	5	10	25	
Weed types	-	Cl	-	Cl	-	Cl	Cl	Cl	Cl	Cl	Cl	Cl	

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	1	RIVER STOUR											TABLE 5	
Year	1971 - 1972													
Month	7	8	9	10	11	12	1	2	3	4	5	6		
Platyhelminthes														
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-		
Oligochaeta														
Tubificidae	17	18	-	7	29	11	2	-	10	2	23	32		
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-		
Lumbricidae	-	1	-	-	-	1	-	1	1	-	-	-		
Naididae	12	-	-	1	3	-	-	-	-	-	-	8		
Hirudinea														
Erpobdellidae	-	1	-	1	1	-	-	2	1	1	1	1		
Glossiphoniidae	2	4	3	5	3	3	-	1	2	1	4	1		
Crustacea														
Asellus aquaticus	-	1	-	-	-	-	-	1	-	-	5	-		
Gammarus pulex	1	-	1	3	2	1	1	-	1	1	3	1		
Insecta														
Ephemeroptera	-	-	-	2	5	-	-	2	1	2	17(2)	2		
Baetis rhodani	120	29	5	17	25	3	22	87	99	17	105	21		
Sialis spp.	-	-	1	-	-	-	-	-	-	-	-	-		
Plecoptera	-	-	-	-	-	-	1	-	-	1	3(2)	1		
Trichoptera - csl	6(2)	2	5(2)	8(2)	7	1	-	-	-	4	3	16(2)		
Trichoptera - csls	-	-	-	55	73	32	26	15(2)	7	3	16	8		
Coleoptera larvae	3(2)	3(2)	2(2)	1	3	1	-	2	-	-	-	1		
Coleoptera adults	10	5(3)	9(3)	3(3)	2	1	-	-	-	-	-	-		
Chironomidae	134(3)	34(3)	6	3(2)	14(2)	19	20	7	5	16	167(2)	123(2)		
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-		
Simuliidae	2	13	-	8	5	1	8	3	3	1	1	-		
Tipulidae	1	2	2	-	2(2)	1	2(2)	-	1	-	-	-		
Other Diptera	5(2)	-	-	-	-	-	-	-	-	-	-	-		
Arachnida														
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-		
Mollusca														
P. jenkinsi	63	119	87	93	62	23	20	19	10	19	20	11		
Limnaea pereger	2	63	68	45	33	2	6	3	-	1	-	-		
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-		
Ancylidae sp.	-	-	-	4	4	1	3	-	-	3	1	1		
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-		
Pisidium sp.	-	8	5	5	6	2	1	-	-	-	-	2		
Number of animals	378	303	194	261	279	103	112	143	141	72	370	229		
Number of species	18	18	14	20	20	15	13	13	12	14	18	17		
Trent Biotic Index	8	7	7	8	8	7	8	7	7	8	10	9		
Chandler Score	629	606	661	829	768	600	595	492	472	652	830	723		
Diversity Index	2.40	2.69	2.19	2.85	3.17	2.82	2.88	2.05	1.74	2.89	2.34	2.40		
Physical and chemical data														
Temperature °C	14	15	14	9	11	4	4	3	5	8	8	10.5		
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	8.6		
pH	-	-	-	-	-	-	-	-	-	-	-	7.0		
Width in metres	1.8- 2.5	1.8- 2.5	1.8- 3.0	1.5- 3.0	1.5- 2.5	1.8- 2.6	1.8- 2.6	1.8- 3.0	2.1- 3.0	1.8- 2.6	1.8- 2.6	1.8- 2.6		
Depth in cms	5	7.5	5	5	5	7.5	7.5	7.5	7-15	7.5	5	7.5		
Current, m/sec	0.3	0.3	0.3	0.4	0.3	0.5	0.4	0.4	0.9	0.3	0.3	0.3		
Colour	cls	cls	cls	cls	cls	cls	cls	cls	br	cls	cls	cls		
Clarity	cl	cl	cl	cl	cl	cl	cl	cl	t	cl	cl	cl		
% Weed cover	5	10	-	-	-	5	5	-	-	5	5	5		
Weed types	C1	C1	-	-	-	C1	C1	-	B	C1	C1	C1		
		M									B			

Figures in brackets denote numbers of species

Key to abbreviations on page 1

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	1	RIVER STOUR						TABLE 6					
Year		1972/1973											
Month		7	8	9	10	11	12	1	2	3	4	5	6
Platyhelminthes													
Turbellaria		-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta													
Tubificidae		72	1	13	11	39	4	21	19	12	23	15	8
Enchytraeidae		-	-	-	-	-	-	-	-	-	-	-	-
Lumbricidae		1	-	-	-	-	2	2	-	-	-	-	-
Naididae		-	-	-	-	-	-	-	-	-	2	-	8
Hirudinea													
Erpobdellidae		-	-	-	-	-	1	1	-	1	1	-	2
Glossiphoniidae		2	1	4	1	1	1	2	-	-	1	2	1
Crustacea													
Asellus aquaticus		-	-	-	-	1	-	-	-	-	-	-	-
Gammarus pulex		4	2	11	3	10	1	5	1	3	5	3	15
Insecta													
Ephemeroptera		-	-	-	1	1	-	2	5	4	7	4	3
Baetis rhodani		126	-	99	8	74	13	106	381	34	204	294	21
Sialis spp.		-	-	-	-	-	-	-	-	-	1	-	1
Plecoptera		-	-	-	-	-	-	2(2)	2	-	3(2)	3	-
Trichoptera - csl		8	26(2)	2	4(2)	3	4	1	-	3	4	2	4
Trichoptera - csls		1	-	-	38	30	14	31	7(2)	18	35	18	6
Coleoptera larvae		-	1	13(2)	1	-	-	1	-	-	-	-	-
Coleoptera adults		1	2(2)	6(2)	2(2)	1	-	-	-	-	-	-	5
Chironomidae		-	81(2)	147(3)	48(2)	32(2)	10	7	1	5	48(2)	25	33
C. riparius		-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae		-	11	35	9	-	-	18	18	2	-	-	-
Tipulidae		2	-	-	-	1	1	1	-	1	-	-	-
Other Diptera		-	-	2	-	-	-	-	-	-	-	2	-
Arachnida													
Hydracarina		-	-	1	-	-	-	1	1	-	-	-	-
Mollusca													
P. jenkinsi		30	64	53	66	106	28	21	5	5	2	-	15
Limnaea pereger		-	1	5	10	17	1	1	1	-	-	2	-
Physa fontinalis		-	-	-	-	-	-	-	-	-	-	-	-
Ancylidae sp.		1	3	3	5	14	5	3	-	1	1	1	6
Sphaerium sp.		-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.		1	2	11	2	2	-	-	-	-	-	1	1
Number of animals		249	197	405	209	332	85	226	441	89	337	372	129
Number of species		12	14	17	17	16	13	19	12	12	16	13	15
Trent Biotic Index		7	7	8	8	8	7	10	8	7	10	8	7
Chandler Score		484	596	588	746	635	506	908	684	563	754	631	653
Diversity Index		1.91	2.25	2.70	2.85	2.80	2.89	2.65	0.93	2.72	1.98	1.31	3.28
Physical and chemical data													
Temperature °C		11	11.5	11	7	9	5	8	5	4	8	7	10
D.O., mg/l		7.9	9.3	10.0	10.5	10.0	11.6	10.8	10.4	9.7	9.5	11.4	10.4
pH		7.0	7.1	7.5	7.2	7.3	7.6	7.4	7.3	7.4	7.3	7.2	7.2
Width in metres		1.8-2.6	1.8-2.4	1.8-3.0	1.8-2.7	1.8-2.7	3.0	1.8-2.7	1.8-2.4	1.8-2.7	1.8-2.7	1.8-2.7	1.8-2.7
Depth in cms		5	5	5-75	5-75	5	7.5	5	5	7-15	7.5	7.5	7.5
Current, m/sec		0.3	0.3	0.3	0.3	0.3	0.9	0.3	0.3	0.4 b	0.3	0.3	0.3
Colour		cls	cls	cls	cls	cls	br	cls	cls	br	cls	cls	gr
Clarity		cl	cl	cl	cl	cl	t	cl	cl	tr	cl	cl	tr
% Weed cover		-	5	5	-	-	-	-	5	5	5	5	5
Weed types		-	C1	C1	-	-	-	-	C1	C1	C1	C1	C1

Figures in brackets denote numbers of species
Key to abbreviations on page 1.

B

Numbers of macroinvertebrates found in approximately 1 m² of riffle

<u>Station</u>	<u>RIVER STOUR</u>											<u>TABLE 7</u>
<u>Year</u>	<u>1967 - 1968</u>											
<u>Month</u>	7	8	9	10	11	12	1	2	3	4	5	6
Platyhelminthes												
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta												
Tubificidae	36	24	-	9	18	58	24	9	36	2	21	32
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-
Lumbricidae	-	-	2	-	2	1	1	-	-	3	-	1
Naididae	-	-	-	-	-	-	-	-	-	-	-	-
Hirudinea												
Erpobdellidae	1	1	-	-	1	1	1	-	-	1	-	-
Glossiphoniidae	-	-	1	1	-	-	1	-	-	-	-	-
Crustacea												
Asellus aquaticus	-	-	-	-	-	-	-	-	-	-	-	-
Gammarus pulex	116	354	320	86	66	103	17	36	37	31	12	55
Insecta												
Ephemeroptera	-	-	-	-	-	-	1	1	-	-	1	-
Eaetis rhodani	48	61	39	2	-	7	3	13	23	16	4	-
Sialis spp.	-	1	2	1	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csl	2(2)	3	11(2)	14(2)	-	9	3	2	15(2)	4(2)	4(2)	8
Trichoptera - csls	-	-	-	1	12	5	-	5	1	3	3	-
Coleoptera larvae	2	20(4)	18(3)	5	-	2	1	-	-	-	-	-
Coleoptera adults	1	11(2)	13(2)	2	-	4	2(2)	-	-	1	-	1
Chironomidae	204	248(3)	157(2)	-	3	5(2)	1	3	12	16	16(2)	422(2)
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-
Tipulidae	2	5	2	-	-	2	2	-	2	1	1	-
Other Diptera	-	-	-	-	-	-	2	-	-	-	-	-
Arachnida												
Hydracarina	-	-	-	-	-	-	1	-	-	1	1	-
Mollusca												
P. jenkinsi	11	23	47	64	95	146	155	9	83	175	72	94
Limnaea pereger	-	4	45	65	35	68	21	1	2	10	9	3
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-
Ancylidae sp.	5	-	-	4	-	5	2	2	2	3	5	2
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	3	67	29	5	3	18	2	1	-	2	1	15
Number of animals	431	822	686	259	235	434	240	82	213	269	150	653
Number of species	13	17	16	14	9	16	18	11	11	16	15	11
Trent Biotic Index	7	7	8	7	5	8	7	7	7	8	7	6
Chandler Score	533	567	661	603	247	543	722	479	502	670	642	369
Diversity Index	2.08	2.27	2.40	2.49	2.20	2.62	1.99	2.55	2.50	1.96	2.56	1.62
Physical and chemical data												
Temperature °C	7	7	13	10	8	4	2	2	4	4	8	12
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	-
pH	-	-	-	-	-	-	-	-	-	-	-	-
Width in metres	1.2-1.5	1.8	1.8	1.5	1.5	1.5	1.5	1.5	1.5-1.8	1.5	1.3	1.5
Depth in cms	5	7-15	7-15	7-15	30-40	7.5	15	15	7.5	5-7	7.5	7-15
Current, m/sec	0.3	0.3	0.3	0.3	0.9	0.2	0.3	0.3	0.2	0.3	0.3	0.2
Colour	cls	cls	br	cls	br	cls	cls	br	cls	cls	cls	cls
Clarity	cl	cl	t	cl	t	cl	cl	t	cl	cl	cl	cl
% Weed cover	75	50	-	5	-	-	-	-	5	25	50	25
Weed types	C1	C1	-	C1	-	-	-	-	C1	C1	C1	C1

Figures in brackets denote numbers of species
Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	2 RIVER STOUR												TABLE 8
Year	1968 - 1969												
Month	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta													
Tubificidae	21	39	98	21	25	37	41	97	39	68	65	38	
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-	-
Lumbricidae	2	-	-	-	-	1	4	2	1	1	1	4	
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	-
Hirudinea													
Erpobdellidae	-	-	1	2	3	1	1	-	-	-	1	1	
Glossiphoniidae	2	-	6	3	6	1	2	2	1	1	1	1	
Crustacea													
Asellus aquaticus	-	-	-	-	-	-	-	-	-	-	-	-	-
Gammarus pulex	25	13	22	13	11	9	9	5	-	1	2	1	
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	1	10	8	11	-	
Baetis rhodani	-	2	4	-	-	-	-	12	66	41	24	11	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	1	-	1	1	-	-	
Trichoptera - csl	2	-	5(2)	1	14(2)	16(2)	11(3)	31(2)	17(3)	8	9(2)	5	
Trichoptera - csls	-	-	-	-	14	4	5	-	6	2	1	2	
Coleoptera larvae	1	6(2)	8	7	1	-	-	-	-	-	-	-	
Coleoptera adults	40	38	8(2)	1	-	-	-	1	1	-	8	3(2)	
Chironomidae	46(2)	26(2)	40(2)	15	12	10	11	12	12	63	54(2)	40	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	-	-	-	1	-	-	-	-	-	-	-	
Tipulidae	2	2	4	2(2)	1	3	1	5	3	6	1	2	
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	
Arachnida													
Hydracarina	3	2	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	256	289	865	547	834	611	466	521	234	110	72	99	
Limnaea peregrina	3	19	64	46	10	1	3	11	15	20	4	7	
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-	
Ancylidae sp.	1	3	2	-	-	-	2	-	3	3	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	17	29	43	35	57	36	39	27	11	17	12	20	
Number of animals	421	468	1170	693	989	730	596	727	420	350	266	234	
Number of species	15	13	16	13	14	13	16	14	17	15	17	15	
Trent Biotic Index	6	6	7	6	7	7	8	7	8	7	8	7	
Chandler Score	543	465	631	490	547	487	703	601	844	667	671	569	
Diversity Index	2.04	2.04	1.55	1.30	1.07	1.07	1.36	1.58	2.29	2.78	2.80	2.57	
Physical and chemical data													
Temperature °C	13	15	12	13	5	7	4	4	1	3	9	9	
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	-	-	-	-	
Width in metres	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.8-	1.5	1.5	
Depth in cms	7.5	7.5	7-15	7-15	15	15	30-40	5	7-15	1.5 7-15	7-15	15	
Current, m/sec	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.3	0.2	0.2	0.2	0.2	
Colour	cls	cls	cls	cls	cls	cls	br	cls	cls	cls	cls	cls	
Clarity	cl	cl	cl	cl	cl	cl	t	cl	cl	cl	cl	cl	
% Weed cover	25	75	50	50	5	5	-	5	10	-	-	-	
Weed types	C1	C1	C1	C1	C1	C1	-	C1	C1	-	-	-	

M

Figures in brackets denote numbers of species
Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	2	RIVER STOUR						TABLE 9					
Year		1969 - 1970											
Month		7	8	9	10	11	12	1	2	3	4	5	6
Platyhelminthes													
Turbellaria		-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta													
Tubificidae		22	16	22	19	17	19	4	14	7	15	27	57
Enchytraeidae		-	-	-	-	-	-	-	-	-	-	-	-
Lumbricidae		6	-	-	1	3	-	-	6	3	-	2	1
Naididae		-	-	-	-	-	-	-	-	-	-	-	12
Hirudinea													
Erpobdellidae		-	-	1	-	1	-	-	-	-	-	-	-
Glossiphoniidae		-	1	5	9	5	2	2	2	2	2	5	2
Crustacea													
Asellus aquaticus		-	-	-	-	-	-	1	-	-	-	-	-
Gammarus pulex		5	10	37	8	7	20	20	18	14	7	5	1
Insecta													
Ephemeroptera		-	-	-	-	-	-	-	1	-	-	2(2)	-
Baetis rhodani		4	-	5	5	1	-	4	14	15	10	1	-
Sialis spp.		1	-	-	-	-	-	-	-	-	-	-	-
Plecoptera		-	-	-	-	-	-	-	1	-	-	-	-
Trichoptera - csl		2	4(2)	71(2)	-	4(2)	4	4	9(2)	13(2)	6(3)	5(2)	-
Trichoptera - csls		-	-	1	-	6	2	14	22	4	6	8	2
Coleoptera larvae		-	1	6	2	1	-	-	-	-	-	-	1
Coleoptera adults		27(3)	23(2)	15(2)	2	1	-	-	-	2	2	7	11(2)
Chironomidae		8	43	57(2)	22	15(2)	20(2)	12(2)	16(3)	15(2)	47(2)	46(3)	101(3)
C. riparius		-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae		-	-	-	-	-	-	-	1	-	-	-	-
Tipulidae		2	18	11	-	-	1	7	8	8(2)	2	7(2)	-
Other Diptera		-	-	-	-	±	-	-	-	-	-	-	-
Arachnida													
Hydracarina		-	-	-	-	2	-	-	-	-	-	-	-
Mollusca													
P. jenkinsi		358	435	455	1177	1053	549	480	268	239	122	90	140
Limnaea pereger		7	4	12	4	10	10	9	2	1	-	1	1
Physa fontinalis		-	-	-	-	-	-	-	-	-	-	-	-
Ancylidae sp.		-	-	-	1	1	-	-	-	-	1	-	-
Sphaerium sp.		-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.		15	35	68	79	101	94	65	48	25	14	48	63
Number of animals		457	590	766	1329	1229	721	622	430	348	235	254	392
Number of species		14	12	16	12	19	11	13	18	16	15	19	14
Trent Biotic Index		6	7	8	6	8	6	7	9	7	7	9	6
Chandler Score		517	513	603	408	614	346	424	728	625	641	763	346
Diversity Index		1.47	1.58	2.20	0.77	0.93	1.29	1.36	2.14	1.91	2.31	2.78	2.35
Physical and chemical data													
Temperature °C		15	15	12	8	10	4	1	4	1	4	8	14
D.O., mg/l		-	-	-	-	-	-	-	-	-	-	-	-
pH		-	-	-	-	-	-	-	-	-	-	-	-
Width in metres		1.5-	1.5	1.5-	1.5-	1.5	1.5-	1.5	1.5-	1.5-	1.5-	1.5-	1.5-
		1.8		1.8	1.8		1.8		1.8	1.8	1.8	1.8	1.8
Depth in cms		7.5	7-15	7-15	7.5	15-25	7.5	7-15	30	15	7-15	7.5	5
Current, m/sec		0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2
Colour		br.	cls	cls	cls	br	cls	cls	br	cls	cls	cls	cls
Clarity		t	cl	cl	cl	t	cl	cl	t	cl	cl	cl	cl
% Weed cover		-	25	75	-	-	50	50	-	5	5	50	25
Weed types		C1	C1	C1	-	-	C1	C1	C1	C1	C1	C1	C1

Figures in brackets denote numbers of species
Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	2		RIVER STOUR				TABLE 10						
Year	1970 - 1971												
Month	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	
Oligochaeta													
Tubificidae	34	7	11	21	34	23	14	22	5	11	5	7	
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-	
Lumbricidae	-	-	1	2	-	3	1	3	2	-	3	-	
Naididae	10	-	-	-	-	-	-	-	-	-	-	-	
Mirudinea													
Erpobdellidae	-	-	-	-	-	-	-	-	-	-	-	-	
Glossiphoniidae	2	2	6	9	2	6	-	-	1	2	4	8	
Crustacea													
Asellus aquaticus	-	-	-	-	-	-	-	-	-	-	1	-	
Gammarus pulex	14	26	12	37	4	7	34	4	3	8	-	-	
Insecta													
Ephemeroptera	1	-	-	-	1	-	2	2	-	-	3	2	
Baetis rhodani	24	-	-	17	-	-	14	16	-	4	-	-	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csl	1	4(2)	4(2)	3	6	4(2)	7	6	19	8(2)	3(2)	3	
Trichoptera - csls	-	-	2	-	2	5	6	2	-	1	5	6	
Coleoptera larvae	5	26(2)	1	1	-	1	1	-	-	-	-	-	
Coleoptera adults	14(3)	17(3)	10(3)	2	-	-	-	-	-	-	5	3	
Chironomidae	55(3)	53(4)	5	14(2)	15(2)	15(2)	22(2)	8(2)	6(2)	37(3)	20(2)	71(	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	-	-	-	-	-	3	3	-	1	-	-	
Tipulidae	9	10	-	-	-	2	5	2	-	-	-	-	
Other Diptera	-	-	-	-	-	2(2)	-	-	-	-	-	-	
Arachnida													
Hydracarina	1	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	322	287	264	359	435	261	249	123	93	41	122	148	
Limnaea pereger	4	16	4	6	8	2	-	1	-	1	3	-	
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-	
Ancylidae sp.	-	-	-	1	-	-	-	-	-	-	-	1	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	17	26	27	61	50	10	24	4	7	4	4	15	
Number of animals	513	474	347	533	558	342	382	196	136	118	178	266	
Number of species	18	16	14	14	11	16	14	14	9	14	14	12	
Trent Biotic Index	8	7	7	7	6	7	7	7	5	7	7	7	
Chandler Score	619	550	543	472	368	576	497	542	270	483	516	425	
Diversity Index	2.13	2.12	1.53	1.79	1.26	1.51	1.97	2.06	1.62	2.57	1.86	1.90	
Physical and chemical data													
Temperature °C	11	15	14	10	9	8	0.5	2	3.5	6	12	11	
D.O.,mg/l	-	-	-	-	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	-	-	-	-	
Width in metres	1.5	1.5-	1.5	1.5-	1.5	1.5	1.5	1.5-	1.5-	1.5-	1.8	1.5	
Depth in cms		1.8		1.8				1.8	1.8	1.8			
Current, m/sec	7.5	7-15	7.5	7.5	7-15	30	7.5	25	25	7.5	7.5	7-15	
Colour	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.3	0.2	
Clarity	cls	cls	cls	cls	cls	br	cls	cls	br	cls	cls	cls	
% Weed cover	cl	cl	cl	cl	cl	t	cl	cl	t	cl	cl	cl	
Weed types	-	90	-	10	10	-	5	-	-	-	5	-	
	C1	C1	-	C1	C1	C1	C1	-	-	-	C1	-	

Figures in brackets denote numbers of species
Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	2. RIVER STOUR												TABLE 11
Year	1971 - 1972												
Month	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta													
Tubificidae	19	31	6	31	31	36	25	39	31	27	23	12	12
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-	-
Lumbricidae	2	-	-	1	-	-	1	-	1	4	3	2	2
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	-
Hirudinea													
Erpobdellidae	-	1	1	-	-	-	-	-	-	-	1	-	-
Glossiphoniidae	4	6	8	12	3	19	5	3	4	13	6	11	11
Crustacea													
Asellus aquaticus	-	-	-	-	1	1	-	-	-	-	-	-	-
Gammarus pulex	1	1	-	2	1	3	1	1	4	-	2	2	2
Insecta													
Ephemeroptera	1	-	-	-	1	-	-	-	-	-	1	-	-
Baetis rhodani	-	7	-	-	1	-	-	22	32	-	-	-	-
Sialis spp.	-	-	-	1	3	-	-	-	-	1	-	-	-
Plecoptera	-	1	-	-	-	-	1	1	1	-	-	-	-
Trichoptera - csl	-	4(2)	6(2)	5	4	11	9	17(2)	14(2)	10	17(2)	6	6
Trichoptera - csls	1	-	-	-	1	6	3	6	4	1	5	-	-
Coleoptera larvae	18(2)	82(2)	1	-	2(2)	-	-	-	1	1	1	-	-
Coleoptera adults	29(2)	71(3)	37(3)	18(3)	8(3)	-	-	-	1	-	2(2)	12(2)	12(2)
Chironomidae	36(3)	107(3)	12(2)	6(2)	3	5	5	7	20	17(2)	22(2)	19(2)	19(2)
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	-	-	-	-	-	-	2	1	6	-	-	-	-
Tipulidae	3	7	-	-	-	-	2	2	-	1	-	-	-
Other Diptera	1	-	-	-	-	-	-	-	-	1	6	-	-
Arachnida													
Hydracarina	-	1	-	-	1	-	-	-	-	-	-	-	-
Mollusca													
P. jenkinsi	534	550	990	1265	1090	929	474	432	273	317	383	256	256
Limnaea pereger	2	31	32	7	3	1	1	2	1	3	-	1	1
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-	-
Ancylidae sp.	-	-	-	-	1	-	-	1	-	1	-	1	1
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	14	11	39	72	88	76	68	63	42	66	46	31	31
Number of animals	664	911	1132	1420	1242	1087	597	597	435	463	518	353	353
Number of species	16	19	13	14	18	10	13	15	16	15	16	13	13
Trent Biotic Index	7	9	7	6	8	6	8	8	9	7	7	6	6
Chandler Score	518	755	481	511	782	315	518	691	649	542	628	452	452
Diversity Index	1.27	2.11	0.91	0.77	0.80	0.91	1.17	1.58	2.06	1.67	1.59	1.62	1.62
Physical and chemical data													
Temperature °C	14	15	14	9	11	4	4	3	5	8	8	10	10
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	8.5	8.5
pH	-	-	-	-	-	-	-	-	-	-	-	7.0	7.0
Width in metres	1.5	1.5	0.6-	0.6-	0.6-	0.9-	0.9-	1.5-	1.5-	1.5-	1.5-	1.5-	1.5-
			1.5	1.5	1.5	1.5	1.5	1.8	1.8	1.8	1.8	1.8	1.8
Depth in cms	7-15	7-15	7-15	7-15	7.5	15-25	7-15	25	25-30	7-15	7-15	15	15
Current, m/sec	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.2	0.2	0.2	0.2
Colour	cls.	cls	cls	cls	cls	cls	cls	br	br	cls	cls	cls	cls
Clarity	cl	cl	cl	cl	cl	cl	cl	t	t	cl	cl	cl	cl
% Weed cover	25	50	-	-	-	-	-	-	-	-	-	-	-
Weed types	Cl	Cl	-	-	-	-	-	-	-	-	-	-	-

Figures in brackets denote numbers of species
 Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	2	RIVER STOUR						TABLE 12					
Year	1972 - 1973												
Month	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	
Oligochaeta													
Tubificidae	35	11	6	29	41	2	7	16	22	25	11	28	
Enchytraeidae	35	7	-	-	-	2	-	-	-	-	-	-	
Lumbricidae	2	1	-	-	-	-	-	-	-	1	1	-	
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	
Hirudinea													
Erpobdellidae	-	-	1	2	1	-	-	1	1	1	-	-	
Glossiphoniidae	3	3	6	2	8	8	6	5	5	1	2	2	
Crustacea													
Asellus aquaticus	-	-	-	-	-	-	-	-	-	-	-	-	
Gammarus pulex	4	3	2	6	-	8	3	7	2	5	5	9	
Insecta													
Ephemeroptera	-	1	-	-	-	-	-	-	-	-	-	-	
Baetis rhodani	-	-	5	-	-	3	12	34	-	3	-	-	
Sialis spp.	-	-	-	1	-	-	-	-	-	-	-	-	
Plecoptera	2	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csl	4	3	15(2)	17	15	10(2)	27(2)	58(2)	21	36	44	20(2)	
Trichoptera - csls	1	-	2	-	-	-	-	-	-	-	-	-	
Coleoptera larvae	3	21(2)	21(3)	7(3)	5(2)	1	-	-	-	-	-	-	
Coleoptera adults	25(2)	27(2)	13	7(2)	5	-	-	1	-	6(2)	1	8	
Chironomidae	20(2)	111(2)	68(3)	38(2)	25(2)	36	20	14(2)	11	16	8	10	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	-	-	-	-	-	-	2	-	-	-	-	
Tipulidae	1	6	1	-	-	-	-	-	1	2	3	-	
Other Diptera	-	1	-	1	-	-	-	-	-	-	-	-	
Arachnida													
Hydracarina	-	-	1	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	688	866	1161	461	895	446	286	259	234	297	137	168	
Limnaea pereger	1	6	3	-	-	-	-	-	-	-	-	-	
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-	
Ancylidae sp.	-	-	-	-	-	-	-	-	1	-	-	1	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	13	33	49	178	85	17	12	5	10	12	5	8	
Number of animals	838	1100	1354	749	1080	533	373	402	308	405	217	254	
Number of species	16	16	19	14	10	11	9	13	10	13	10	10	
Trent Biotic Index	8	7	8	6	5	7	6	7	5	7	5	6	
Chandler Score	562	578	693	506	313	423	363	502	383	494	377	335	
Diversity Index	1.21	1.29	1.00	1.71	1.03	1.06	1.42	1.90	1.39	1.55	1.74	1.81	
Physical and chemical data													
Temperature °C	10.5	12	11	7	9	5	8	5	4	8	7	10	
D.O., mg/l	7.1	9.3	9.7	10.5	9.1	11.8	10.9	9.2	9.5	7.4	11.3	10.2	
pH	7.1	7.0	7.4	7.3	7.3	7.6	7.4	7.5	7.3	7.3	7.2	7.3	
Width in metres	1.5-	1.5	1.2-	1.5-	1.5-	1.5	1.5	1.5-	1.5-	1.5-	1.5-	1.5	
	1.8		1.5	1.8	1.8			1.8	1.8	1.8	1.8	1.8	
Depth in cms	7.5	7-15	7-15	7-15	7-15	40	15-25	15-25	25	15-25	7-15	7-15	
Current, m/sec	0.2	0.2	0.2	0.1	0.1	0.3	0.1	0.1	0.3	0.2	0.2	0.2	
Colour	cls	cls	cls	cls	cls	br	gr	cls	br	cls	cls	gr	
Clarity	cl	cl	cl	cl	cl	t	t	cl	t	cl	cl	tr	
% Weed cover	5	5	75	-	-	-	-	-	-	-	-	-	
Weed types	C1	C1	C1	-	-	-	-	-	-	-	-	-	

Figures in brackets denote numbers of species
 Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	3 RIVER STOUR												TABLE 13
Year	1967 - 1968												
Month	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	2	-	-	-	-	-	-	-	-	-	-	-	
Oligochaeta													
Tubificidae	4	-	-	-	-	5	6	2	3	2	9	-	
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-	
Lumbricidae	-	3	-	-	-	-	-	-	-	-	-	-	
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	
Hirudinea													
Erpobdellidae	1	-	1	2	-	-	-	-	-	-	-	-	
Glossiphoniidae	-	-	-	-	-	1	-	-	-	-	-	-	
Crustacea													
Asellus aquaticus	-	8	2	4	-	3	2	1	-	1	-	-	
Gammarus pulex	63	100	182	71	18	39	8	17	-	2	-	1	
Insecta													
Ephemeroptera	-	-	-	-	-	1	-	-	-	-	-	-	
Baetis rhodani	217	308	43	263	12	45	16	20	7	8	-	-	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csd	218	29	22(2)	3(2)	-	-	-	-	-	-	-	-	
Trichoptera - csls	-	-	-	-	-	-	-	-	-	1	-	-	
Coleoptera larvae	1	8	1	1	1	-	-	-	-	-	-	-	
Coleoptera adults	-	-	6	-	-	-	-	-	-	-	-	-	
Chironomidae	570	56(3)	23	2	2	3	1	3	2	-	13	115	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	
Tipulidae	-	1	4	-	-	-	-	-	-	-	-	-	
Other Diptera	-	-	-	-	-	-	-	-	-	-	2(2)	-	
Arachnida													
Hydracarina	-	1	-	-	-	-	±	-	-	-	-	-	
Mollusca													
P. jenkinsi	-	1	-	-	1	-	-	-	-	-	-	-	
Limnaea pereger	-	32	130	35	6	6	5	7	-	4	9	13	
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-	
Ancylidae sp.	-	1	-	4	1	-	-	-	-	1	1	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	2	2	7	5	1	-	-	-	-	-	-	2	
Number of animals	1078	550	421	390	42	103	39	50	12	19	35	131	
Number of species	9	15	11	11	8	8	7	6	3	7	7	4	
Trent Biotic Index	6	7	7	7	5	5	5	5	4	6	3	4	
Chandler Score	293	543	490	498	325	289	219	188	92	269	222	110	
Diversity Index	1.74	2.02	2.16	1.52	2.16	1.93	2.28	1.99	1.38	2.35	2.12	0.64	
Physical and chemical data													
Temperature °C	6.5	7	13.5	10	8	4	2	2	4	4	8	12	
D.O.,mg/l	-	-	-	-	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	-	-	-	-	
Width in metres	1.8-2.1	1.8-2.4	1.8-2.1	1.5-7.5	1.3-30	1.5-7-15	1.5-15	1.8-7-15	1.5-7-15	1.5-7.5	2.1-7-15	2.1-7-15	
Depth in cms	7.5	5-7.5	7.5	7-15	30	7-15	15	7-15	7-15	7.5	7-15	7-15	
Current, m/sec	0.3	0.3	0.3	0.3	0.9	0.3	0.3	0.3	0.3	0.3	0.4	0.3	
Colour	cls.	cls.	br.	cls.	br.	cls.	br.	br.	cls.	cls.	cls.	cls.	
Clarity	cl.	cl.	t.	cl.	t.	cl.	t.	t.	cl.	cl.	cl.	cl.	
% Weed cover	75	50	-	10	-	-	-	-	5	10	25	10	
Weed types	Cl.	Cl.	Cl.	m	-	-	-	-	Cl.	Cl.	Cl.	Cl.	

m.

Figures in brackets denote numbers of species
Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	3	RIVER STOUR						TABLE 14					
Year		1968 - 1969											
Month	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	2	-	-	-	-	-	-	-	-	-	-	-	
Oligochaeta													
Tubificidae	1	-	3	2	9	7	1	2	5	13	1	6	
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-	
Lumbricidae	-	-	2	1	1	-	-	-	1	5	1	-	
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	
Hirudinea													
Erbobdellidae	-	1	1	-	-	-	-	-	-	1	-	-	
Glossiphoniidae	1	-	1	-	2	1	-	1	1	2	-	-	
Crustacea													
Asellus aquaticus	2	1	12	16	51	56	34	35	18	7	-	-	
Gammarus pulex	1	-	-	2	-	-	1	-	-	-	-	-	
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	7	2	2	-	
Baetis rhodani	58	30	208	5	-	-	-	-	12	20	-	1	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csl	2	1	25	10	4	6	1	-	-	4	-	-	
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera larvae	-	-	-	-	-	-	-	-	2(2)	1	-	-	
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	
Chironomidae	39(2)	16	23	3	18	32	26	37	80	61(2)	11	10	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	
Tipulidae	-	-	3	1	3	4	1	-	3(2)	3(2)	-	-	
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	
Arachnida													
Hydracarina	1	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	8	7	36	4	30	5	3	3	8	2	3	2	
Limnaea pereger	24	66	217	133	240	74	45	32	44	36	-	1	
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-	
Ancylidae sp.	-	-	3	-	6	-	1	1	9	4	-	1	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	1	1	8	3	18	1	-	1	2	1	2	-	
Number of animals	140	123	542	180	382	186	113	112	192	162	20	21	
Number of species	13	8	13	11	11	9	9	8	15	17	6	6	
Trent Biotic Index	7	6	7	7	6	5	5	4	7	8	6	5	
Chandler Score	383	273	488	397	371	304	359	240	617	664	205	217	
Diversity Index	2.23	1.82	2.11	1.55	1.92	2.16	1.97	1.99	2.62	2.78	1.98	2.97	
Physical and chemical data													
Temperature °C	13	15	12	13	5	7	4	4	1	4	9	9	
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	-	-	-	-	
Width in metres	1.8- 2.1	1.8- 2.1	1.8- 2.1	1.8- 2.1	2.1	2.1	1.8- 2.4	1.8- 2.1	1.8- 2.1	2.1- 2.4	2.1- 2.4	2.1	
Depth in cms	7.5	7-15	7-15	7-15	7-15	7-15	15-25	7.5	7.5	7-15	7.5	7-15	
Current, m/sec	0.3	0.3	0.3	0.6	0.4	0.6	0.9	0.3	0.3	0.3	0.3	0.6	
Colour	cls.	cls.	cls.	cls.	cls.	cls.	br.	cls.	cls.	cls.	cls.	cls.	
Clarity	cl.	cl.	cl.	cl.	cl.	cl.	t.	cl.	cl.	cl.	cl.	cl.	
% Weed cover	25	95	75	75	25	5	-	25	5	5	-	50	
Weed types	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	m.	Cl.	Cl.	Cl.	-	Cl.	

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	3	RIVER STOUR											TABLE 15	
Year	1969 - 1970													
Month	7	8	9	10	11	12	1	2	3	4	5	6		
Platyhelminthes														
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-		
Oligochaeta														
Tubificidae	2	-	9	3	-	-	3	6	7	-	13	-		
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-		
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	1		
Naididae	-	-	-	-	-	-	-	-	-	-	-	-		
Hirudinea														
Erpobdellidae	-	-	-	1	-	-	-	-	-	-	-	-		
Glossiphoniidae	1	-	-	-	-	-	-	-	-	-	-	-		
Crustacea														
Asellus aquaticus	1	-	-	-	-	-	-	-	-	-	-	-		
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-		
Insecta														
Ephemeroptera	-	-	-	-	-	-	-	1	-	-	-	-		
Baetis rhodani	-	-	-	-	-	-	-	-	2	-	-	4		
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-		
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-		
Trichoptera - csd	2	-	-	-	-	-	-	-	-	-	-	-		
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-		
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-		
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-		
Chironomidae	77	-	105	79	64(2)	39	16(2)	17(2)	36	-	9(3)	166(2)		
C. riparius	4	-	-	-	12	9	-	-	-	-	-	-		
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-		
Tipulidae	-	-	-	-	-	-	-	1	-	-	-	-		
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-		
Arachnida														
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-		
Mollusca														
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-		
Limnaea pereger	1	-	4	29	5	1	4	5	5	-	5	2		
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-		
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-		
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-		
Pisidium sp.	-	-	-	-	2	-	-	-	-	-	-	1		
Number of animals	88	-	118	112	83	49	23	30	50	-	27	174		
Number of species	7	-	3	4	5	3	4	6	4	-	5	6		
Trent Biotic Index	5	-	2	2	2	2	2	4	4	1	2	4		
Chandler Score	213	-	61	85	88	68	67	206	111	-	66	146		
Diversity Index	0.83	-	0.59	1.06	1.06	0.82	1.18	1.68	1.25	-	1.48	0.34		
Physical and chemical data														
Temperature °C	15	-	12	8	10	4	1	4	2	-	10	15		
D.O.,mg/l	-	-	-	-	-	-	-	-	-	-	-	-		
pH	-	-	-	-	-	-	-	-	-	-	-	-		
Width in metres	2.1	-	1.8- 2.4	2.1- 2.7	1.8- 2.1	2.1- 2.4	2.1- 2.4	2.1- 3.0	2.4- 2.7	-	2.1	1.5- 1.8		
Depth in cms	7.5	-	7.5	5	7-15	7.5	7.5	15-25	7-15	-	7.5	5		
Current, m/sec	0.3	-	0.4	0.3	0.5	0.3	0.3	1.0	0.3	-	0.3	0.3		
Colour	br.	-	cls.	cls.	br.	cls.	cls.	br.	cls.	-	cls.	cls.		
Clarity	t	-	cl.	cl.	t	cl.	cl.	t	cl.	-	cl.	cl.		
% Weed cover	-	-	-	5	-	-	-	-	-	-	-	-		
Weed types	Cl.	-	-	Cl.	-	-	-	-	-	-	-	-		

m.

Figures in brackets denote numbers of species
Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station 3	RIVER STOUR												TABLE 16
Year	1970 - 1971												
Month	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	
Oligochaeta													
Tubificidae	-	-	-	1	3	-	1	1	-	-	-	2	
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-	
Lumbricidae	2	-	1	1	-	-	-	1	-	-	1	-	
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	
Hirudinea													
Erpobdellidae	-	-	-	1	-	-	-	-	-	-	-	-	
Glossiphoniidae	-	-	-	5	3	1	-	-	6	1	-	3	
Crustacea													
Asellus aquaticus	-	-	2	2	2	2	1	2	4	13	15	6	
Gammarus pulex	-	-	2	2	3	2	1	8	5	2	-	-	
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	1	-	1	2	-	
Baetis rhodani	7	3	63	189	17	10	162	115	123	182	92	66	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	1	2	-	-	-	
Trichoptera - csd	-	1	7	-	1	-	-	-	1	-	2	99	
Trichoptera - csls	-	-	-	2	2	2	5	1	3	-	2	1	
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	
Chironomidae	84(3)	138(3)	34(2)	62(2)	10(2)	13	67(2)	3	24(2)	41	31(2)	384(2)	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	1	-	34	17	15	1	55	4	9	4	-	-	
Tipulidae	-	-	2	1	1	-	-	2	-	-	2	-	
Other Diptera	-	-	-	-	-	-	2	-	12	-	-	1	
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	1	19	86	118	114	21	8	5	8	1	5	5	
Limnaea pereger	38	352	20	45	9	3	3	-	2	1	2	3	
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-	
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	-	2	5	2	1	-	-	-	-	-	1	-	
Number of animals	133	515	256	448	181	55	305	144	199	246	155	570	
Number of species	8	8	12	15	14	9	11	12	13	9	12	11	
Trent Biotic Index	5	6	7	7	7	6	6	8	8	6	7	6	
Chandler Score	200	209	443	504	428	305	385	545	488	364	456	340	
Diversity Index	1.35	1.15	2.53	2.23	2.04	2.43	1.84	1.33	2.09	1.25	1.89	1.45	
Physical and chemical data													
Temperature °C	11	16	14	10	9	8	0.5	2	4	6	12	11	
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	-	-	-	-	
Width in metres	1.8- 2.1	1.8- 2.1	1.8- 2.4	1.5- 1.8	1.8- 2.1	1.8- 2.4	1.8- 2.4	2.1- 2.4	2.1- 2.4	2.1	2.1- 2.4	2.1- 2.4	
Depth in cms	5	5	5	7.5	7-15	15	7-15	15-25	7-25	7.5	7-15	7-15	
Current, m/sec	0.3	0.3	0.3	0.3	0.4	0.9	0.3	0.6	0.9	0.3	0.4	0.3	
Colour	cls.	cls.	cls.	cls.	cls.	br.	cls.	cls.	br.	cls.	cls.	cls.	
Clarity	cl.	cl.	cl.	cl.	cl.	t.	cl.	cl.	t.	cl.	cl.	cl.	
% Weed cover	50	90	-	5	25	-	5	10	-	25	50	75	
Weed types	Cl.	Cl.	-	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	3	RIVER STOUR											TABLE 17		
Year	1971 - 1972														
Month	7	8	9	10	11	12	1	2	3	4	5	6			
Platyhelminthes															
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-			
Oligochaeta															
Tubificidae	-	1	-	10	9	7	2	4	26	20	2	168			
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-			
Lumbricidae	-	1	1	-	-	-	-	-	-	-	-	-			
Naididae	1	-	-	-	-	-	2	-	-	-	9	-			
Hirudinea															
Erpobdellidae	-	1	3	4	5	-	-	-	-	1	1	2			
Glossiphoniidae	3	37	12	2	3	18	2	1	3	5	2	2			
Crustacea															
Asellus aquaticus	19	122	26	17	9	10	16	6	7	3	-	1			
Gammarus pulex	-	-	-	1	-	-	-	-	-	-	-	-			
Insecta															
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	1			
Baetis rhodani	10	3	1	-	-	-	-	-	12	-	-	1			
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-			
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-			
Trichoptera - csd	8	1	2	-	-	1	-	-	2	-	1	-			
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-			
Coleoptera larvae	-	4	19	3	1	4	3	-	-	-	-	-			
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-			
Chironomidae	48(2)	100(3)	6	-	5	12(2)	5(2)	3	8(2)	10	12	8(2)			
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-			
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-			
Tipulidae	-	-	-	-	1	-	-	-	1	-	-	-			
Other Diptera	2	5(2)	2	-	-	-	-	-	-	-	-	-			
Arachnida															
Hydracarina	-	3	-	-	-	-	-	-	-	-	-	-			
Mollusca															
P. jenkinsi	25	95	34	-	9	25	14	19	18	12	8	1			
Limnaea pereger	16	145	30	45	37	50	25	8	11	13	6	7			
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-			
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-			
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-			
Pisidium sp.	4	2	4	-	5	6	4	-	2	3	2	-			
Number of animals	136	520	140	82	84	133	73	41	90	67	43	191			
Number of species	11	17	12	7	10	10	10	6	11	8	9	10			
Trent Biotic Index	6	7	7	5	4	5	4	4	6	4	5	6			
Chandler Score	310	441	426	193	300	293	244	144	346	185	270	290			
Diversity Index	2.67	2.49	2.85	1.91	2.60	2.59	2.57	2.11	2.81	2.60	2.70	0.82			
Physical and chemical data															
Temperature °C	14	15	14	9	11	4	4	3	5	8	8	10.5			
D.O.,mg/l	-	-	-	-	-	-	-	-	-	-	-	8.8			
pH	-	-	-	-	-	-	-	-	-	-	-	7.1			
Width in metres	1.8-2.1	1.5-2.4	1.5-1.8	1.2-1.8	1.5-2.1	2.1-2.4	1.5-2.1	1.8-2.4	2.4	2.1-2.4	1.8-2.4	1.2-2.4			
Depth in cms	7.5	7-15	7.5	7.5	7.5	7-15	7-15	7-15	7-25	7-15	7-15	7-15			
Current, m/sec	0.4	0.4	0.4	0.4	0.4	0.6	0.4	0.4	0.9	0.3	0.4	0.4			
Colour	cls.	cls.	cls.	cls.	cls.	gr.	cls.	gr.	br.	cls.	cls.	cls.			
Clarity	cl.	cl.	cl.	cl.	cl.	t.	cl.	t.	t.	cl.	cl.	cl.			
% Weed cover	-	25	10	5	90	-	25	-	-	5	75	75			
Weed types	-	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	-	Cl.	Cl.	Cl.	Cl.			

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Station	3	RIVER STOUR						TABLE 18					
Year	1972 - 1973												
Month	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	1	-	-	-	-	-	-	-	-	-	-	-	
Oligochaeta													
Tubificidae	5	11	-	-	3	1	4	9	-	-	4	5	
Enchytraeidae	23	3	-	-	-	2	-	2	-	-	-	-	
Lumbricidae	-	-	-	-	2	-	-	1	-	-	-	1	
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	
Hirudinea													
Erpobdellidae	2	4	4	-	3	1	-	1	-	-	-	-	
Glossiphoniidae	1	1	11	3	11	2	6	2	-	-	-	-	
Crustacea													
Asellus aquaticus	-	-	1	1	-	7	3	-	1	-	-	-	
Gammarus pulex	-	-	2	1	2	1	-	-	-	-	3	-	
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	
Baetis rhodani	24	-	17	1	-	1	-	-	-	-	1	-	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csa	-	-	-	1	1	-	-	1	1	-	-	-	
Trichoptera - csis	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera larvae	-	-	105	12	8	2	2	1	-	-	-	-	
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	
Chironomidae	129(2)	43(2)	109(2)	-	21	7	6	8	8(2)	7	10	17	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	
Tipulidae	-	-	-	-	-	-	1	-	-	-	-	-	
Other Diptera	-	-	-	1	-	-	-	-	-	-	-	-	
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	8	93	270	141	264	159	203	57	7	22	20	8	
Limnaea pereger	9	363	671	438	598	279	235	137	43	17	27	135	
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-	
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	1	4	1	1	7	2	-	1	1	-	-	3	
Number of animals	202	522	1191	600	920	464	460	220	61	46	65	169	
Number of species	11	9	11	10	11	12	8	11	7	3	6	6	
Trent Biotic Index	5	3	5	6	6	6	4	6	5	2	5	3	
Chandler Score	270	170	306	394	340	345	235	339	208	75	177	138	
Diversity Index	1.83	1.39	1.78	1.06	1.33	1.36	1.33	1.59	1.39	1.45	2.01	1.09	
Physical and chemical data													
Temperature °C	11	12.5	11.5	7.5	9.5	5	8	6.5	4.5	8	7.5	11	
D.O.,mg/l	7.3	9.1	8.8	9.9	9.2	11.8	10.9	9.0	9.3	9.0	10.8	10.3	
pH	6.9	7.2	7.4	7.2	7.2	7.7	7.5	7.5	7.3	7.5	7.3	7.0	
Width in metres	1.5-	1.5-	1.2-	1.2-	1.2-	2.1-	2.1	1.5-	1.8-	2.1-	1.5-	2.1-	
Depth in cms	2.4	2.1	1.8	1.8	2.1	2.4		2.1	2.1	2.4	2.1	2.4	
Current, m/sec	7.5	7.5	7-15	7.5	7-15	7-25	7.5	7-15	7-15	7-15	7-15	7-15	
Colour	0.3	0.4	0.3	0.3	0.4	0.9	0.3	0.4	0.6	0.4	0.3	0.4	
Clarity	cls.	cls.	cls.	cls.	cls.	br.	gr.	br.	cls.	cls.	cls.	cls.	
% Weed cover	cl.	cl.	cl.	cl.	cl.	t.	t.	tr.	cl.	cl.	cl.	cl.	
Weed types	50	50	95	95	95	-	-	-	-	5	5	75	
	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	-	Cl.	Cl.	Cl.	

Cal.

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Station 4. RIVER STOUR

TABLE 19

Year	1967 - 1968											
Month	7	8	9	10	11	12	1	2	3	4	5	6
Platyhelminthes												
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta												
Tubificidae	5	2	-	5	1	26	12	5	9	4	16	3
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-
Naididae	-	-	-	-	-	-	-	-	-	-	-	-
Hirudinea												
Erpobdellidae	15	-	1	-	-	-	-	-	-	1	2	-
Glossiphoniidae	-	1	1	2	-	1	-	-	-	-	2	-
Crustacea												
Asellus aquaticus	14	14	34	50	5	13	16	22	13	5	7	1
Gammarus pulex	13	7	6	7	-	2	2	6	2	-	-	-
Insecta												
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-
Baetis rhodani	69	51	65	8	-	3	-	3	3	-	-	-
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csa	-	-	4(3)	2	-	1	1	-	-	-	-	-
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera adults	-	-	-	-	1	-	-	-	-	-	-	-
Chironomidae	984	41(3)24		16	2	6	1	2	3	7	11	37
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	-	5	-	-	-	-	-	-	-	-	-	-
Tipulidae	-	1	-	1	-	-	-	1	-	-	2	-
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-
Arachnida												
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
P. jenkinsi	-	-	3	-	-	-	-	-	-	-	-	-
Limnaea pereger	361	2128	752	368	85	218	270	174	265	127	231	57
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-
Ancylidae sp.	-	-	4	4	-	1	1	1	1	-	5	2
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	1	-	10	3	-	2	-	3	2	2	-	3
Number of animals	1462	2250	904	466	94	273	303	217	298	146	274	103
Number of species	8	11	13	11	5	10	7	9	8	6	8	6
Trent Biotic Index	5	5	7	7	3	6	5	5	5	4	4	4
Chandler Score	205	316	553	426	145	361	262	326	265	137	259	184
Diversity Index	1.31	0.41	1.05	1.23	0.61	1.17	.68	1.16	0.75	0.82	1.03	1.47
Physical and chemical data												
Temperature °C	7	7	14	10	8	4	2	2	4	4	8	12
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	-
pH	-	-	-	-	-	-	-	-	-	-	-	-
Width in metres	1.8-2.1	1.8-2.4	1.8-2.4	1.8-15	2.1-2.4	1.8-7-15	2.1-7-15	2.1-15	2.1-7-15	2.1-7-15	2.1-7-15	2.1-7-15
Depth in cms	7-15	7-30	7-15	15	25	7-15	7-15	15	7-15	7-15	7-15	7-15
Current, m/sec	0.3	0.3	0.3	0.3	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Colour	cls.	br.	gr.	cls.	br.	cls.	cls.	br.	cls.	cls.	cls.	cls.
Clarity	cl.	t.	t.	cl.	t.	cl.	cl.	t.	cl.	cl.	cl.	cl.
% Weed cover	25	-	-	50	-	20	10	-	50	50	50	75
Weed types	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.

Figures in brackets denote numbers of species

Key to abbreviations on page 1

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	4	RIVER STOUR												TABLE 20	
Year	1968 - 1969														
Month		7	8	9	10	11	12	1	2	3	4	5	6		
Platyhelminthes															
Turbellaria		-	-	-	-	-	-	-	-	-	-	-	-		
Oligochaeta															
Tubificidae		19	-	7	5	-	49	15	3	4	5	10	52		
Enchytraeidae		-	-	-	-	-	-	-	-	-	-	-	-		
Lumbricidae		-	-	-	-	-	-	-	-	1	-	1	-		
Naididae		-	-	-	-	-	-	-	-	-	-	-	-		
Hirudinea															
Erpobdellidae		-	-	2	2	-	-	-	1	-	1	-	-		
Glossiphoniidae		-	-	2	-	-	1	-	-	-	-	-	-		
Crustacea															
Asellus aquaticus		14	10	7	14	59	48	36	47	30	1	2	-		
Gammarus pulex		-	-	-	-	-	-	-	-	-	-	-	-		
Insecta															
Ephemeroptera		-	-	-	-	-	-	-	-	-	-	-	-		
Baetis rhodani		17	3	3	-	-	-	-	-	5	2	-	-		
Sialis spp.		-	-	-	-	-	-	-	-	-	-	-	-		
Plecoptera		-	-	-	-	-	-	-	-	-	-	-	-		
Trichoptera - csd		1	-	-	-	-	-	-	-	-	-	-	-		
Trichoptera - csfs		-	-	-	-	-	-	-	-	-	-	-	-		
Coleoptera larvae		-	-	-	-	-	-	-	-	-	-	-	-		
Coleoptera adults		-	-	-	-	-	-	-	-	-	-	-	-		
Chironomidae		28	10	26	25	13	21	16	11	18	16	7	19		
C. riparius		-	-	-	-	-	-	-	-	-	-	-	-		
Simuliidae		-	-	-	-	-	-	-	-	-	-	-	-		
Tipulidae		-	-	1	3	1	-	-	-	-	-	-	-		
Other Diptera		-	-	-	-	-	-	-	-	-	-	-	-		
Arachnida															
Hydracarina		-	-	-	-	-	-	-	-	-	-	-	-		
Mollusca															
P. jenkinsi		-	2	2	1	3	3	3	2	2	2	-	-		
Limnaea pereger		136	416	643	317	352	373	163	192	224	241	104	26		
Physa fontinalis		-	-	-	-	-	-	-	-	-	-	-	-		
Ancylidae sp.		1	-	6	-	3	-	2	2	4	2	1	-		
Sphaerium sp.		1	-	-	-	-	-	-	-	-	-	-	-		
Pisidium sp.		1	-	6	4	3	4	1	-	-	-	-	-		
Number of animals		218	441	705	371	434	499	236	258	288	270	125	99		
Number of species		9	5	11	8	7	7	7	7	8	8	6	4		
Trent Biotic Index		6	4	6	4	4	4	4	4	5	5	4	4		
Chandler Score		331	141	368	222	244	152	198	209	251	250	181	133		
Diversity Index		1.79	0.41	0.66	0.90	0.95	1.27	1.47	1.17	1.22	0.71	0.95	1.56		
Physical and chemical data															
Temperature °C		14	15	13	13	5	7	4	5	2	4	9	10		
D.O.,mg/l		-	-	-	-	-	-	-	-	-	-	-	-		
pH		-	-	-	-	-	-	-	-	-	-	-	-		
Width in metres		2.1-1.8-	2.1-	2.1-	2.1-	2.1-	2.1-	1.8-	2.1-	2.1-	1.8-	2.1-	2.1		
Depth in cms		2.4 2.4	2.4	3.0	2.4	2.4	2.7	2.7	2.4	2.7	2.7	2.7	2.4		
Current, m/sec		7.5 7-15	7-15	7-15	15	7-15	15-25	7-15	7-15	7-15	7-15	7-15	7-1		
Colour		0.3 0.3	0.3	0.4	0.4	0.6	0.9	0.4	0.3	0.3	0.3	0.3	0.6		
Clarity		cls. cls.	cls.	cls.	cls.	cls.	cls.	br.	cls.	cls.	cls.	cls.	cls.		
% Weed cover		cl. cl.	cl.	cl.	cl.	cl.	cl.	t.	cl.	cl.	cl.	cl.	cl.		
Weed types		50 100	90	75	25	25	-	25	5	50	50	50			
		Cl. Cl.	Cl.	Cl.	Cl.	Cl.	-	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.		

Figures in brackets denote numbers of species
 key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

<u>Station</u>	4. <u>RIVER STOUR</u>												<u>TABLE 21</u>	
<u>Year</u>	1969 - 1970													
<u>Month</u>	7	8	9	10	11	12	1	2	3	4	5	6		
Platyhelminthes														
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-		
Oligochaeta														
Tubificidae	3	81	28	146	40	38	11	41	129	98	63	19		
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-		
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-		
Naididae	-	-	-	-	-	-	-	-	-	-	-	25		
Hirudinea														
Erpobdellidae	-	4	-	2	1	-	-	-	-	-	-	-		
Glossiphoniidae	-	-	1	-	-	-	-	-	-	-	-	-		
Crustacea														
Asellus aquaticus	2	-	-	-	-	-	-	-	-	-	1	-		
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	1	-		
Insecta														
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-		
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-		
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-		
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-		
Trichoptera - csd	1	-	-	-	-	-	-	-	-	-	-	-		
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-		
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-		
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-		
Chironomidae	242	113	59	23	30	32	10	16	38	78(2)	41(2)	138(2)		
C. riparius	3	-	-	-	1	4	-	-	-	-	-	-		
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-		
Tipulidae	13	-	-	1	-	1	-	2(2)	-	-	-	-		
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-		
Arachnida														
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-		
Mollusca														
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-		
Limnaea pereger	11	16	47	55	26	41	22	5	21	80	35	14		
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-		
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-		
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-		
Pisidium sp.	1	-	-	1	1	-	-	-	-	-	-	-		
Number of animals	276	214	135	228	99	116	43	64	188	256	141	196		
Number of species	8	4	4	6	6	5	3	5	3	4	6	5		
Trent Biotic Index	5	2	2	3	3	2	2	2	2	2	4	2		
Chandler Score	277	72	82	166	134	136	63	182	55	52	123	63		
Diversity Index	0.81	1.40	1.57	1.36	1.75	1.79	1.48	1.38	1.19	1.57	1.63	1.33		
Physical and chemical data														
Temperature °C	15	16	12	8	10	4	2	4	3	6	11	15		
D.O.,mg/l	-	-	-	-	-	-	-	-	-	-	-	-		
pH	-	-	-	-	-	-	-	-	-	-	-	-		
Width in metres	2.4	2.4- 2.7	2.1- 2.4	2.4- 2.7	2.1- 2.4	2.1- 2.7	2.1- 2.7	2.4- 2.7	2.4- 2.7	2.1- 2.7	1.8- 2.7	2.1- 2.7		
Depth in cms	7-15	7-15	7-15	7.5	7-15	7-15	7.5	25	7-15	7.5	7.5	7-15		
Current, m/sec	0.3	0.4	0.4	0.3	0.6	0.3	0.3	0.9	0.3	0.3	0.3	0.3		
Colour	cls.	cls.	cls.	gr.	br.	cls.	cls.	br.	cls.	cls.	cls.	cls.		
Clarity	cl.	cl.	cl.	t.	t.	cl.	cl.	t.	cl.	cl.	cl.	cl.		
% Weed cover	90	25	75	-	-	25	10	-	-	5	75	90		
Weed types	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	-	Cl.	Cl.	Cl.		

Figures in brackets denote numbers of species
Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	4. RIVER STOUR												TABLE 22
Year	1970 - 1971.												
Month	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	2	-	2	-	-	-	-	-	-	-	-	-	
Oligochaeta													
Tubificidae	2	2	24	2	3	11	4	5	14	-	1	7	
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-	
Lumbricidae	-	1	-	-	-	-	-	-	-	-	1	-	
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	
Hirudinea													
Erpobdellidae	-	1	7	6	1	1	-	-	-	-	1	-	
Glossiphoniidae	-	-	-	-	-	-	-	-	1	-	-	-	
Crustacea													
Asellus aquaticus	2	-	3	2	3	3	3	-	2	4	-	1	
Gammarus pulex	1	-	-	-	-	-	1	1	-	-	-	-	
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	
Baetis rhodani	5	-	2	-	-	-	-	4	14	4	1	-	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csd	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera adults	-	1	-	-	-	-	-	-	-	-	-	-	
Chironomidae	8(13)	34(2)	13	4	5	13	7	12	8	13	30	33(2)	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	
Tipulidae	-	-	-	-	-	-	-	-	-	-	1	-	
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	8	11	7	11	18	12	8	3	-	2	-	-	
Limnaea pereger	354	192	256	199	149	92	77	25	72	31	37	59	
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-	
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Number of animals	455	242	314	224	179	132	100	50	111	54	72	100	
Number of species	10	8	8	6	6	6	6	6	6	5	7	5	
Trent Biotic Index	5	3	5	4	4	4	5	5	5	4	5	3	
Chandler Score	230	186	201	135	132	127	155	178	159	144	221	86	
Diversity Index	1.02	1.02	1.11	0.73	0.93	1.48	1.25	1.97	1.59	1.68	1.44	1.31	
Physical and chemical data													
Temperature °C	12	16	14	11	10	8	0.5	3	4	7	12	11	
D.O.,mg/l	-	-	-	-	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	-	-	-	-	
Width in metres	1.8-2.7	1.8-2.4	2.1-2.4	1.8-2.4	1.8-2.4	1.8-2.4	1.8-2.4	2.1-2.4	2.1-2.4	2.1-2.4	2.1-2.7	1.8-2.4	
Depth in cms	7-15	7-15	7-15	7-15	7-15	25-30	7-15	25-30	15-25	7-15	7-15	7-15	
Current, m/sec	0.3	0.3	0.4	0.3	0.4	0.9	0.3	0.9	0.9	0.3	0.4	0.15	
Colour	cls.	cls.	cls.	cls.	cls.	br.	cls.	cls.	br.	cls.	cls.	cl	
Clarity	cl.	cl.	cl.	cl.	cl.	t	cl.	cl.	t.	cl.	cl.	cl	
% Weed cover	75	100	75	75	25	-	50	50	-	75	75	75	
Weed types	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	

Figures in brackets denote numbers of species
 Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	4	RIVER STOUR						TABLE 23					
Year	1971-1972												
Month	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	
Oligochaeta													
Tubificidae	-	1	7	6	23	34	67	51	115	117	148	158	
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-	
Lumbricidae	-	1	-	-	-	-	-	-	-	1	-	-	
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	
Hirudinea													
Erpobdellidae	-	-	1	1	-	-	-	-	-	-	-	-	
Glossiphoniidae	1	-	-	1	-	-	-	-	1	-	-	3	
Crustacea													
Asellus aquaticus	-	-	-	-	-	-	1	2	-	-	-	-	
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-	
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csd	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera larvae	-	-	17	-	1	-	-	-	-	-	-	-	
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	
Chironomidae	217(2)	38(3)	1	3	4	2	2	2	4	11	10	-	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-	
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	59	177	79	17	116	6	68	18	14	8	10	-	
Limnaea pereger	90	1308	929	65	189	61	82	64	90	82	86	7	
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-	
Ancylidae sp.	-	-	-	-	-	-	-	-	1	-	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	-	4	-	2	7	1	2	-	1	-	-	1	
Number of animals	367	1529	1034	95	340	104	222	137	226	279	254	169	
Number of species	5	8	6	7	6	5	6	5	7	5	4	4	
Trent Biotic Index	2	3	3	3	3	2	4	3	3	2	2	2	
Chandler Score	85	132	171	140	155	121	140	112	207	105	84	90	
Diversity Index	1.39	0.72	0.58	1.48	1.47	1.39	1.73	1.60	1.48	1.29	1.35	0.42	
Physical and chemical data													
Temperature °C	15	15	14	10	11	4	5	4	5	8	9	12.5	
D.O.,mg/l	-	-	-	-	-	-	-	-	-	-	-	8.2	
pH	-	-	-	-	-	-	-	-	-	-	-	6.9	
Width in metres	1.8-2.1	1.5-2.4	1.5-2.4	1.5-2.4	1.5-2.1	2.1-2.4	2.1	2.4	2.1-2.4	2.1-2.4	2.1-2.4	2.1-2.4	
Depth in cms	7-15	7-15	7-15	7-15	7-15	25	7-15	25-30	15-25	15-30	7-25	15-30	
Current, m/sec	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.6	0.9	0.3	0.3	0.2	
Colour	cls.	cls.	cls.	cls.	cls.	cls.	cls.	gr.	br.	cls.	cls.	br	
Clarity	cl.	cl.	cl.	cl.	cl.	cl.	cl.	t.	t.	cl.	cl.	t	
% Weed cover	75	90	100	5	5	-	10	-	-	25	50	-	
Weed types	Cl.	Cl.	Cl.	Cl.	Cl.	-	Cl.	-	-	Cl.	Cl.	Cl.	

Figures in brackets denote numbers of species
Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	4	RIVER STOUR											TABLE 24	
Year	1972-1973													
Month	7	8	9	10	11	12	1	2	3	4	5	6		
Platyhelminthes														
Turbellaria	1	-	-	-	-	-	-	-	-	-	-	-		
Oligochaeta														
Tubificidae	50	90	47	59	22	30	67	22	68	2	29	57		
Enchytraeidae	71	41	-	6	173	-	-	48	-	40	77	83		
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-		
Naididae	-	-	-	-	-	-	-	-	-	-	-	-		
Hirudinea														
Erpobdellidae	1	1	-	-	-	-	-	-	-	-	1	-		
Glossiphoniidae	-	1	2	-	1	-	-	-	-	-	-	-		
Crustacea														
Asellus aquaticus	-	-	-	-	1	-	-	1	1	-	-	-		
Gammarus pulex	-	-	-	-	-	-	-	1	-	-	-	-		
Insecta														
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-		
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-		
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-		
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-		
Trichoptera - csd	1	-	-	-	-	-	-	-	-	-	-	-		
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-		
Coleoptera larvae	-	-	-	7	-	1	-	-	1	-	-	-		
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-		
Chironomidae	23	36	120(2)	9	5(2)	3	4	3	20(2)	7	5	17		
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-		
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-		
Tipulidae	-	-	1	-	-	-	-	-	-	-	-	-		
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-		
Arachnida														
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-		
Mollusca														
P. jenkinsi	12	13	3	11	3	3	6	2	2	-	-	-		
Limnaea pereger	16	13	68	61	37	103	82	117	61	27	85	37		
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-		
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-		
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-		
Pisidium sp.	-	-	-	-	1	-	-	-	-	-	-	-		
Number of animals	175	195	241	153	243	140	159	194	153	76	197	194		
Number of species	8	7	7	6	9	5	4	7	7	4	5	4		
Trent Biotic Index	5	3	3	3	4	2	2	5	4	2	2	2		
Chandler Score	233	151	164	161	184	135	87	169	161	90	102	76		
Diversity Index	2.13	2.03	1.64	1.96	1.36	1.09	1.33	1.53	1.60	1.47	1.63	1.80		
Physical and chemical data														
Temperature °C	12	13	11.5	9	10	5	8	6.5	5	8	8	11		
D.O.,mg/l	6.9	7.9	9.4	11.1	9.3	11.5	9.8	8.7	9.1	9.1	10.1	10.2		
pH	7.3	7.3	7.6	7.2	7.3	7.7	7.4	7.3	7.2	7.3	7.2	7.0		
Width in metres	1.8-	1.5-	1.8	1.5-	1.5-	1.8	1.8	1.8-	1.8-	1.8-	1.5-	1.5-		
Depth in cms	2.1	2.1		2.1	1.8			2.1	2.1	2.1	2.1	2.1		
Current, m/sec	15	7-15	7-25	7-15	7-25	25-30	15-25	7-25	15-30	15-25	7-15	7-25		
Colour	0.3	0.4	0.2	0.3	0.4	0.6	0.3	0.3	0.6	0.3	0.3	0.3		
Clarity	br.	cls.	br.	cls.	br.	br.	gr.	cls.	br.	br.	cls.	cls.		
% Weed cover	-	25	-	25	-	-	-	10	-	-	75	90		
Weed types	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	-	Cl.	Cl.	Cl.		
		Cal.						m				m		

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	5	RIVER STOUR											TABLE 25
Year	1967 - 1968												
Month	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	
Oligochaeta													
Tubificidae	153	150	88	132	219	51	362	364	397	308	290	643	
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-	
Lumbricidae	-	-	1	-	-	-	-	-	-	-	-	-	
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	
Hirudinea													
Erpobdellidae	6	6	2	5	-	3	1	1	1	4	-	-	
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-	
Crustacea													
Asellus aquaticus	-	6	8	1	1	2	1	-	-	1	2	-	
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-	
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csd	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	
Chironomidae	5	113(2)	2	-	1	1	-	-	1	-	1	1	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	
Tipulidae	-	1	-	-	-	-	-	-	-	-	-	-	
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-	
Limnaea pereger	10	432	351	142	12	15	27	8	7	6	9	6	
Physa fontinalis	-	-	29	7	2	-	-	-	-	-	-	-	
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	1	-	8	-	-	1	-	-	-	-	-	-	
Number of animals	175	708	490	287	235	73	391	363	406	319	302	650	
Number of species	5	7	8	5	5	6	4	3	4	4	4	3	
Trent Biotic Index	2	4	4	3	3	4	3	2	2	3	3	2	
Chandler Score	112	144	184	100	117	140	83	61	89	82	90	65	
Diversity Index	0.76	1.46	1.30	1.27	0.43	1.33	0.41	0.18	0.17	0.26	0.28	0.09	
Physical and chemical data													
Temperature °C	7	7	14	10	8	4	2	2	4	4	8	12	
D.O.,mg/l	-	-	-	-	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	-	-	-	-	
Width in metres	3.3-4.5	5.5	5.5	4.5-5.5	4.5-6.0	4.5-6.0	5.5	6.0	6.0	6.0	7.3		
Depth in cms	4.5-7-15	7.5	7-15	7-15	5.5-15-25	6.0-7-15	7-25	7.5	7.5	7.5	5	5	
Current, m/sec	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4	
Colour	cls. br.	gr.	br.	br.	br.	br.	br.	br.	br.	gr. cls.	cls.	cls.	
Clarity	Cl. t.	t.	tr.	t.	t.	t.	t.	t.	t.	tr. cl.	cl.	cl.	
% Weed cover	25	-	-	10	-	-	-	-	-	5	5	5	
Weed types	Cl. Cl.	Cl. Cl.	- St.	- St.	- St.	- St.	- St.	- St.	- St.	St. St.	St. St.	Cl.	

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	5	RIVER STOUR											Table 26
Year	1968 - 1969												
Month	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	
Oligochaeta													
Tubificidae	164	140	167	135	70	51	100	132	221	229	60	224	
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-	
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-	
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	
Hirudinea													
Erpobdellidae	-	-	1	1	10	3	3	8	5	12	4	7	
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-	
Crustacea													
Asellus aquaticus	2	1	1	30	11	13	6	3	-	-	-	1	
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-	
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csd	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	
Chironomidae	1	1	-	-	-	-	2	-	3	1	5	-	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-	
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-	
Limnaea pereger	10	2	124	63	87	56	23	33	23	11	2	2	
Physa fontinalis	-	-	-	3	7	-	2	1	-	-	-	-	
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Number of animals	177	144	293	233	186	123	136	177	252	253	71	234	
Number of species	4	4	4	5	5	4	6	5	4	4	4	4	
Trent Biotic Index	3	3	3	3	3	3	4	3	2	2	2	3	
Chandler Score	90	92	76	101	104	78	106	106	79	78	87	84	
Diversity Index	0.45	0.22	1.04	1.46	1.69	1.51	1.25	1.11	0.66	0.56	0.85	0.30	
Physical and chemical data													
Temperature °C	14	15	13	13	7	7	4	5	3	5	9	10	
D.O.,mg/l	-	-	-	-	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	-	-	-	-	
Width in metres	7.3	4.5	4.5	4.5- 5.0	5.5	5.5	7.5	4.5-	5.5-	5.5-	4.5-	5.5-	
Depth in cms	5	7-15	5	7.5	7.5	7.5	7-15	5.5 7-25	6.0 7.5	6.0 7.5	5.5 7.5	6.0 7.5	
Current, m/sec	0.3	0.3	0.6	0.4	0.6	0.6	0.6	0.4	0.3	0.3	0.4	0.6	
Colour	Cls.	cls.	cls.	cls.	cls.	cls.	br.	cls.	cls.	cls.	cls.	cls.	
Clarity	cl.	cl.	cl.	cl.	cl.	cl.	t.	cl.	cl.	cl.	cl.	cl.	
% Weed cover	10	25	5	25	5	-	-	-	-	-	25	10	
Weed types	Cl.	Cl.	Cl.	Cl.	Cl.	-	-	-	-	-	St.	St.	

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	5	RIVER STOUR										TABLE 27	
Year	1969 - 1970												
Month	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	
Oligochaeta													
Tubificidae	109	70	239	87	8	21	46	52	141	151	100	2	
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-	
Lumbricidae	-	1	-	-	-	-	-	-	-	-	-	-	
Naididae	-	-	-	-	-	-	-	-	-	-	-	7	
Hirudinea													
Erpobdellidae	4	-	3	11	1	3	3	6	10	9	17	6	
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-	
Crustacea													
Asellus aquaticus	5	2	3	10	27	4	3	2	-	2	6	10	
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-	
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	
Baetis rhodani	-	-	-	1	-	-	-	-	-	-	-	-	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csd	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	
Chironomidae	8	24	1	5	-	2	2	1	5	40	12	-	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-	
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-	
Limnaea pereger	2	10	138	108	109	85	59	34	4	9	14	47	
Physa fontinalis	-	-	-	1	2	2	1	-	-	-	-	-	
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Number of animals	128	107	384	223	147	117	114	95	160	211	149	72	
Number of species	5	5	5	7	5	6	6	5	4	5	5	5	
Trent Biotic Index	3	3	3	5	3	4	4	3	2	3/	3	3	
Chandler Score	106	111	97	177	108	140	135	110	82	103	93	105	
Diversity Index	0.88	1.37	1.08	1.64	1.13	1.28	1.45	1.44	0.70	1.25	1.54	1.56	
Physical and chemical data													
Temperature °C	15	16	13	9	10	4	2	5	3	6	12	15	
D.O.,mg/l	-	-	-	-	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	-	-	-	-	
Width in metres	4.5- 6.0	4.5- 6.0	4.5- 6.0	5.5- 7.3	4.5- 6.0	4.5- 5.5	4.5- 6.0	7.3	4.5 5.5	4.5- 6.0	4.5- 6.0	4.5- 6.0	
Depth in cms	5	7.5	5	7.5	7.5	7.5	7.5	7-15	7.5	7-15	7.5	7.5	
Current, m/sec	0.4	0.6	0.6	0.3	0.6	0.3	0.3	0.6	0.3	0.3	0.4	0.3	
Colour	cls.	br.	cls.	cls.	br.	cls.	cls.	br.	cls.	cls.	cls.	cls.	
Clarity	cl.	t.	cl.	cl.	t.	cl.	cl.	t.	cl.	cl.	cl.	cl.	
% Weed cover	25	-	50	10	-	5	-	-	-	-	-	-	
Weed types	St. Cl.	-	Cl. St.	St. P.p	P.p	P.p	-	-	-	-	-	-	

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	5		RIVER STOUR										TABLE 28	
Year	1970 -		1971											
Month	7	8	9	10	11	12	1	2	3	4	5	6		
Platyhelminthes														
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta														
Tubificidae	9	6	3	2	18	317	11	260	282	27	42	124		
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	15	71		
Lumbricidae	-	-	-	-	-	-	-	-	2	-	-	-		
Naididae	32	-	-	-	-	-	-	-	-	-	-	-		
Hirudinea														
Erpobdellidae	2	1	-	-	-	2	-	1	1	-	1	-		
Glossiphoniidae	-	-	1	-	-	-	-	-	1	-	-	-		
Crustacea														
Asellus aquaticus	19	23	12	-	13	1	-	1	2	-	1	-		
Gammarus pulex	-	-	-	-	-	-	-	1	-	-	-	-		
Insecta														
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-		
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-		
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-		
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-		
Trichoptera - csd	-	-	-	-	-	-	-	-	-	-	-	-		
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-		
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-		
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-		
Chironomidae	12	-	3	-	-	4	-	2	3	7	5	-		
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-		
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-		
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-		
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-		
Arachnida														
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-		
Mollusca														
P. jenkinsi	-	-	-	-	2	-	-	-	-	-	-	-		
Limnaea pereger	108	306	46	27	55	32	-	18	32	1	3	3		
Physa fontinalis	-	2	-	-	1	1	-	-	-	-	-	-		
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-		
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-		
Pisidium sp.	-	-	-	-	-	-	-	-	-	-	-	-		
Number of animals	182	338	65	29	89	357	11	283	323	35	67	198		
Number of species	6	5	5	2	5	6	1	6	7	3	6	3		
Trent Biotic Index	4	3	3	2	3	4	1	5	4	2	4	2		
Chandler Score	113	108	112	47	113	138	13	151	159	68	133	52		
Diversity Index	1.77	0.56	1.30	0.36	1.49	0.62	0	0.50	0.70	0.90	1.56	1.04		
Physical and chemical data														
Temperature °C	12	16	14	11	10	8	1	4	4	7	12	11		
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	-		
pH	-	-	-	-	-	-	-	-	-	-	-	-		
Width in metres	4.5-	4.5-	5.5	4.5-	4.5-	6.0	4.5-	4.5-	4.5-	4.5-	4.5-	3.3-		
	6.0	5.5		5.5	5.5		5.5	6.0	6.0	5.5	5.5	4.5		
Depth in cms	7.5	7.5	7.5	7-15	7-15	7-25	7-15	7-25	7-25	7.5	7.5	7-15		
Current, m/sec	0.3	0.4	0.6	0.3	0.6	0.6	0.3	0.4	0.4	0.6	0.3	0.6		
Colour	cls.	cls.	cls.	cls.	cls.	br.	cls.	gr.	br.	cls.	cls.	cls.		
Clarity	cl.	cl.	cl.	cl.	cl.	t.	cl.	tr.	t.	cl.	cl.	cl.		
% Weed cover	75	100	50	75	10	-	-	-	-	-	-	5		
Weed types	Cl.	Cl.	Cl.	Cl.	P.p	-	-	-	-	-	-	P.p		
	P.p	P.p	P.p	P.p	-	-	-	-	-	-	-	St.		

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Station	5	RIVER STOUR						TABLE 29					
Year	1971 - 1972												
Month	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	
Oligochaeta													
Tubificidae	31	11	67	56	57	169	44	138	128	65	29	255	
Enchytraeidae	179	-	18	-	-	-	-	-	-	-	-	-	
Lumbricidae	-	-	-	-	-	1	-	-	2	-	-	-	
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	
Hirudinea													
Erpobdellidae	6	1	-	2	3	3	-	-	1	1	-	2	
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-	
Crustacea													
Asellus aquaticus	8	2	7	14	22	8	1	-	1	-	2	2	
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-	
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csl	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera larvae	-	-	3	-	-	-	-	-	-	-	-	-	
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	
Chironomidae	108	-	5	-	1	1	2	1	6	5	12	6	
C. riparius	-	-	-	-	-	-	-	1	-	-	-	-	
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-	
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	-	6	2	8	30	4	-	-	-	-	-	-	
Limnaea pereger	26	306	324	298	260	54	10	-	7	5	1	2	
Physa fontinalis	-	-	-	-	-	-	1	-	-	-	-	-	
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	-	-	-	-	4	-	-	-	-	-	-	-	
Number of animals	356	326	426	378	377	240	58	140	145	76	44	267	
Number of species	6	5	7	5	7	7	5	3	6	4	4	5	
Trent Biotic Index	4	3	4	3	4	4	3	2	4	2	3	3	
Chandler Score	108	108	180	100	149	154	124	58	136	89	89	113	
Diversity Index	1.82	0.42	1.17	1.01	1.45	1.24	1.10	0.12	0.74	0.79	1.23	0.34	
Physical and chemical data													
Temperature °C	15	15	14	10	11	5	5	4	6	9	10	12.5	
D.O.,mg/l	-	-	-	-	-	-	-	-	-	-	-	8.6	
pH	-	-	-	-	-	-	-	-	-	-	-	6.9	
Width in metres	3.4-4.5	4.5-5.5	4.5-5.5	5.5	4.5	5.5-6.0	5.5-6.0	5.5-7.3	5.5-7.3	4.5-6.0	4.5-6.0	4.5-6.0	
Depth in cms	7-15	7.5	7.5	7.5	7.5	7-15	7.5	7-15	7-15	7-15	7-15	7-15	
Current, m/sec	0.6	0.3	0.6	0.4	0.3	0.4	0.3	0.6	0.4	0.3	0.4	0.6	
Colour	cls.	cls.	cls.	cls.	cls.	cls.	cls.	gr.	gr.	cls.	cls.	br.	
Clarity	cl.	cl.	cl.	cl.	cl.	cl.	cl.	t.	t.	cl.	cl.	tr.	
% Weed cover	50	25	75	25	75	5	-	-	-	-	5	10	
Weed types	P.p	P.p	Cl.	P.p	P.p	P.p	-	-	-	-	St.	P.p	
	Cl.	Cl.	P.p	Cl.	Cl.								

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	5	RIVER STOUR											TABLE 30			
Year	1972 - 1973															
Month	7	8	9	10	11	12	1	2	3	4	5	6				
Platyhelminthes																
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-				
Oligochaeta																
Tubificidae	40	52	32	168	82	111	21	93	-	-	34	6				
Enchytraeidae	327	55	31	21	78	-	11	49	119	142	20	90				
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-				
Naididae	-	-	-	-	-	-	10	11	-	-	-	-				
Hirudinea																
Erpobdellidae	-	2	1	-	-	-	-	-	-	1	-	-				
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-				
Crustacea																
Asellus aquaticus	6	29	27	14	12	9	2	8	5	1	3	-				
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-				
Insecta																
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-				
Baetis rhodani	1	-	-	-	-	-	-	-	-	-	-	-				
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-				
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-				
Trichoptera - csd	-	-	-	-	-	-	-	-	-	-	-	-				
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-				
Coleoptera larvae	-	-	-	-	1	-	-	-	-	-	-	-				
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-				
Chironomidae	35(2)	60	113(2)	23(2)	1	-	4	2	8	3	-	-				
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-				
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-				
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-				
Other Diptera	-	-	-	1	-	-	-	-	-	-	-	-				
Arachnida																
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-				
Mollusca																
P. jenkinsi	3	8	17	21	11	-	2	8	-	-	-	-				
Limnaea pereger	10	132	679	104	33	4	1	7	3	-	1	-				
Physa fontinalis	-	1	4	1	-	-	-	-	-	-	-	-				
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-				
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-				
Pisidium sp.	-	3	1	7	-	-	-	-	-	-	-	-				
Number of animals	422	342	905	360	218	124	51	178	135	147	58	96				
Number of species	8	9	10	10	7	3	7	7	4	4	4	2				
Trent Biotic Index	5	4	4	4	4	3	4	4	3	3	3	2				
Chandler Score	169	194	189	189	177	59	157	146	87	86	83	36				
Diversity Index	1.19	2.36	1.33	2.10	1.99	0.57	2.23	1.90	0.70	0.26	1.30	0.33				
Physical and chemical data																
Temperature °C	12	13	11.5	9.5	9.5	5	8.5	6	5	8	9	11.5				
D.O.,mg/l	6.2	9.0	8.5	9.6	9.3	11.9	10.2	6.6	9.3	8.6	8.6	9.9				
pH	7.5	7.3	7.4	6.9	7.3	7.7	7.5	7.3	7.5	7.3	7.4	7.4				
Width in metres	4.5-5.5	4.5-6.0	4.5	4.5	4.5	5.5-6.0	4.5	4.5	4.5-5.5	4.5-5.5	4.5-5.5	4.5-5.5				
Depth in cms	7.5	7.5	7.15	7.5	7.5	7.25	7.15	7.5	7.15	7.15	7.15	7.5				
Current, m/sec	0.4	0.6	0.4	0.6	0.4	0.9	0.4	0.4	0.4	0.4	0.4	0.4				
Colour	cls.	cls.	cls.	gr.	cls.	br.	gr.	cls.	br.	br.	cls.	cls.				
Clarity	cl.	cl.	cl.	tr.	cl.	t.	t.	cl.	t.	t.	cl.	cl.				
% Weed cover	10	25	75	50	50	-	-	-	-	-	5	5				
Weed types	P.p	P.p	Cl.	P.p	P.p	-	-	-	-	-	Cl.	P.p				
	St.	Cl.	P.p	Cl.	Cl.											

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Station	6	RIVER STOUR						TABLE 31					
Year		1967 - 1968											
Month		7	8	9	10	11	12	1	2	3	4	5	6
Platyhelminthes													
Turbellaria		-	-	-	-	-	1	-	-	-	-	-	-
Oligochaeta													
Tubificidae		117	151	84	8	-	72	109	94	262	320	226	521
Enchytraeidae		-	-	-	-	-	-	-	-	-	-	-	-
Lumbricidae		-	-	-	-	-	-	-	-	-	-	-	-
Naididae		-	-	-	-	-	-	-	-	-	-	-	-
Hirudinea													
Erpobdellidae		1	-	1	-	-	-	-	-	-	-	2	-
Glossiphoniidae		-	-	-	-	-	-	-	-	1	-	-	-
Crustacea													
Asellus aquaticus		2	14	74	136	-	70	13	5	10	18	77	9
Gammarus pulex		-	-	-	-	-	-	-	-	-	-	-	-
Insecta													
Ephemeroptera		-	-	-	-	-	-	-	-	-	-	-	-
Baetis rhodani		-	-	-	-	-	-	-	-	-	-	-	-
Sialis spp.		-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera		-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csd		-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csls		-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera larvae		-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera adults		-	-	-	-	-	-	-	-	-	-	-	-
Chironomidae		2	25(2)	1	-	-	3	-	1	-	-	-	1
C. riparius		-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae		-	-	-	-	-	-	-	-	-	-	-	-
Tipulidae		-	-	1	-	-	-	-	-	-	-	-	-
Other Diptera		-	-	-	-	-	1	-	-	-	-	-	-
Arachnida													
Hydracarina		-	-	-	-	-	-	-	-	-	-	-	-
Mollusca													
P. jenkinsi		-	-	-	-	-	-	-	-	-	-	-	-
Limnaea pereger		5	114	245	257	-	62	43	4	28	78	95	45
Physa fontinalis		-	-	5	2	-	-	1	-	-	-	-	-
Ancylidae sp.		-	-	-	-	-	-	-	-	-	-	-	-
Sphaerium sp.		-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.		6	3	7	19	-	39	10	14	16	12	2	8
Number of animals		133	307	418	422	-	248	176	118	317	428	402	584
Number of species		6	6	8	5	-	7	5	5	5	4	5	5
Trent Biotic Index		4	3	4	3	-	4	3	3	3	3	3	3
Chandler Score		142	94	212	99	-	158	110	115	81	74	99	112
Diversity Index		0.77	1.59	1.59	1.30	-	2.09	1.48	1.04	0.93	1.09	1.49	0.62
Physical and chemical data													
Temperature °C		7	7	14	10	-	4	2	2	4	4	8	12
D.O.,mg/l		-	-	-	-	-	-	-	-	-	-	-	-
pH		-	-	-	-	-	-	-	-	-	-	-	-
Width in metres		3.3- 4.5	3.3- 4.5	4.5	3.3- 4.5	-	4.5-	5.5- 6.0	5.5-	4.5	4.5	4.5 5.5	5.5
Depth in cms		7-5	7-15	7-15	7-15	-	7-15	7-30	7.5	7-15	7-15	5	5
Current, m/sec		0.3	0.4	0.3	0.3	-	0.3	0.3	0.3	0.3	0.3	0.2	0.2
Colour		cls.	br.	gr.	cls.	-	br.	br.	br.	br.	gr.	cls.	cls.
Clarity		cl.	t.	t.	cl.	-	t.	t.	t.	t.	t.	cl.	cl.
% Weed cover		25	-	-	5	-	-	-	-	-	-	-	-
Weed types		Cl.	Cl.	-	St.	-	St.	-	-	-	-	-	-
							Cl.						

Figures in brackets denote numbers of species
Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	RIVER STOUR						TABLE 32					
Year	1968 - 1969											
Month	7	8	9	10	11	12	1	2	3	4	5	6
Platyhelminthes												
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta												
Tubificidae	483	132	454	301	401	328	427	408	944	141	263	242
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-
Naididae	-	-	-	-	-	-	-	-	-	-	-	-
Hirudinea												
Erpobdellidae	1	-	1	-	1	2	2	1	1	1	1	-
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-
Crustacea												
Asellus aquaticus	48	5	13	29	21	16	15	60	11	2	9	4
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-
Insecta												
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csd	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-
Chironomidae	-	-	-	-	-	-	-	-	-	-	-	-
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-
Arachnida												
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-
Limnaea pereger	50	19	204	127	72	14	19	48	22	36	53	8
Physa fontinalis	-	-	5	4	1	1	2	2	1	-	-	-
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	1	-	-	-	3	2	3	3	1	1	3	-
Number of animals	583	156	677	461	499	363	468	522	981	181	329	254
Number of species	5	3	5	4	6	6	6	6	7	5	5	3
Trent Biotic Index	3	3	3	3	4	4	4	4	4	3	3	3
Chandler Score	106	56	97	73	131	136	134	130	171	113	105	59
Diversity Index	0.85	0.73	1.08	1.22	0.92	0.61	0.58	1.04	0.28	0.89	0.91	0.31
Physical and chemical data												
Temperature °C	14	15	13	13	7	7	4	5	3	5	9	10
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	-
pH	-	-	-	-	-	-	-	-	-	-	-	-
Width in metres	4.5-5.5	4.5	4.5-6.0	7.5	7.5	7.5	4.5-9.0	6.0	6.0	2.5-4.5	3.0-5.5	2.0-4.5
Depth in cms	5	7-15	7-15	7-25	7-25	7-15	15	7-25	7-15	15-30	7-30	7-30
Current, m/sec	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.6
Colour	cls.	cls.	cls.	cls.	cls.	cls.	br.	cls.	cls.	cls.	cls.	cls.
Clarity	cl.	cl.	cl.	cl.	cl.	cl.	t.	cl.	cl.	cl.	cl.	cl.
% Weed cover	-	5	5	5	5	-	-	-	-	-	20	-
Weed types	-	Cl.	Cl.	Cl.	Cl.	-	-	-	-	-	St.	-

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Station	6	RIVER STOUR											TABLE 33			
Year	1969 - 1970															
Month	7	8	9	10	11	12	1	2	3	4	5	6				
Platyhelminthes																
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-				
Oligochaeta																
Tubificidae	86	152	228	449	-	33	27	111	167	164	277	2				
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-				
Lumbricidae	-	1	-	-	2	-	-	-	-	-	-	130				
Naididae	-	-	-	-	-	-	-	-	-	-	-	-				
Hirudinea																
Erpobdellidae	-	-	-	-	-	1	-	-	1	2	3	1				
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-				
Crustacea																
Asellus aquaticus	16	49	38	26	-	20	3	7	-	3	16	18				
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-				
Insecta																
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-				
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-				
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-				
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-				
Trichoptera - csd	1	-	-	-	-	-	-	-	-	-	-	-				
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-				
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-				
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-				
Chironomidae	-	1	1	-	-	-	-	-	-	1	-	-				
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-				
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-				
Tipulidae	-	-	-	-	1	-	-	-	-	-	-	-				
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-				
Arachnida																
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-				
Mollusca																
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-				
Limnaea pereger	7	27	75	226	5	32	47	12	7	12	95	185				
Physa fontinalis	1	-	31	73	9	11	3	1	-	1	2	4				
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-				
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-				
Pisidium sp.	-	-	-	3	-	-	-	4	2	-	-	3				
Number of animals	111	230	373	777	17	97	80	135	177	183	393	343				
Number of species	5	5	5	5	4	5	4	5	4	6	5	7				
Trent Biotic Index	4	3	3	3	2	3	3	3	2	4	3	4				
Chandler Score	163	105	102	95	141	108	88	114	91	138	99	140				
Diversity Index	1.06	1.30	1.55	1.49	1.60	1.95	1.33	0.96	0.37	0.65	1.13	1.43				
Physical and chemical data																
Temperature °C	15	16	13	9	10	4	2	5	3	6	12	15				
D.O.,mg/l	-	-	-	-	-	-	-	-	-	-	-	-				
pH	-	-	-	-	-	-	-	-	-	-	-	-				
Width in metres	2.0	3.0	2.0	2.0	4.5-7.5	2.0-3.0	2.0-5.4	4.5-7.0	2.5-5.5	2.5-5.5	2.5-4.5	2.0-5.5				
Depth in cms	25-30	7-30	7-25	7-25	7-40	7-25	7-25	7-30	7-30	7-40	15-30	15-40				
Current, m/sec	0.3	0.6	0.6	0.3	0.3	0.6	0.4	0.6	0.4	0.3	0.6	0.4				
Colour	cls.	cls.	cls.	cls.	br.	cls.	gr.	br.	cls.	cls.	cls.	cls.				
Clarity	cl.	cl.	cl.	cl.	t.	cl.	tr.	t.	cl.	cl.	cl.	cl.				
% Weed cover	50	-	25	50	-	10	5	-	-	-	50	50				
Weed types	Cl.	-	Cl.	Cl.	P.p	P.p	P.p	-	-	-	Cl.	Cl.				
	St.		P.p	P.p		Cl						P.p				

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	RIVER STOUR												TABLE 34
Year	1970 - 1971												
Month	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	
Oligochaeta													
Tubificidae	5	13	9	68	31	104	12	130	99	54	75	13	
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	303	428	
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-	
Naididae	165	58	-	-	-	-	-	-	-	-	-	-	
Hirudinea													
Erpobdellidae	-	1	-	-	-	1	-	1	1	2	-	-	
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-	
Crustacea													
Asellus aquaticus	85	174	29	11	43	10	3	10	22	8	4	4	
Gammarus pulex	-	-	1	-	-	-	-	-	-	-	-	-	
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csd	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	
Chironomidae	2	2	1	-	-	-	-	-	-	-	2	-	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-	
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-	
Limnaea pereger	231	166	33	20	49	2	-	2	3	4	1	-	
Physa fontinalis	6	37	4	4	10	-	-	-	-	-	-	-	
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	4	1	-	-	-	-	-	-	1	-	-	-	
Number of animals	498	452	77	103	133	117	15	143	126	68	386	445	
Number of species	7	8	6	4	4	4	2	4	5	4	6	3	
Trent Biotic Index	4	4	5	3	3	3	3	3	3	3	4	3	
Chandler Score	136	154	157	83	84	85	35	85	112	86	105	53	
Diversity Index	1.70	1.95	1.80	1.38	1.82	0.61	0.72	0.52	0.95	1.01	0.88	0.26	
Physical and chemical data													
Temperature °C	12	16	14	11	10	8	1	4	4	7	12	11	
D.O.,mg/l	-	-	-	-	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	-	-	-	-	
Width in metres	2.0-4.5	2.0-5.5	2.0-2.5	1.5-2.0	2.0-3.0	6.0	1.5-3.0	2.0-3.3	2.6-4.5	2.0-3.0	2.0-4.5	3.3-4.5	
Depth in cms	15-25	7-30	7-30	7-30	7-40	7-40	7-30	15-40	7-40	7-25	15-25	7-15	
Current, m/sec	0.4	0.6	0.6	0.6	0.9	0.6	0.6	0.9	0.6	0.9	0.4	0.6	
Colour	cls.	cls.	cls.	cls.	cls.	br.	cls.	gr.	br.	cls.	cls.	cls.	
Clarity	cl.	cl.	cl.	cl.	cl.	t.	cl.	tr.	t.	cl.	cl.	cl.	
% Weed cover	50	75	5	10	10	-	-	-	-	5	-	-	
Weed types	Cl.	Cl.	P.p	P.p	P.p	-	-	-	-	Cl.	-	-	
	P.p.	P.p.			Cl.					St.			

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	6	RIVER STOUR											TABLE 35	
Year	1971 - 1972													
Month	7	8	9	10	11	12	1	2	3	4	5	6		
Platyhelminthes														
Turbellaria	-	-	-	-	5	-	-	-	-	1	-	-		
Oligochaeta														
Tubificidae	2	41	12	12	11	18	8	31	152	71	22	145		
Enchytraeidae	179	-	148	3	-	-	-	-	-	-	-	-		
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-		
Naididae	-	-	-	-	-	-	-	-	-	-	-	-		
Hirudinea														
Erpobdellidae	-	-	2	1	1	-	-	-	1	-	1	2		
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-		
Crustacea														
Asellus aquaticus	13	101	50	149	504	36	2	2	3	2	9	12		
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-		
Insecta														
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-		
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-		
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-		
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-		
Trichoptera - csd	-	-	-	-	-	-	-	-	-	-	-	-		
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-		
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-		
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-		
Chironomidae	9	1	-	4(2)	1	-	-	-	2	1	3	1		
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-		
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-		
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-		
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-		
Arachnida														
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-		
Mollusca														
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-		
Limnaea pereger	12	208	88	78	82	16	1	-	3	-	-	-		
Physa fontinalis	-	6	-	7	3	-	-	-	-	-	-	-		
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-		
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-		
Pisidium sp.	-	1	-	2	9	-	-	-	-	-	-	-		
Number of animals	215	358	300	256	616	70	11	33	161	75	35	160		
Number of species	5	6	5	9	8	3	3	2	5	4	4	4		
Trent Biotic Index	3	4	3	4	4	3	3	3	3	3	3	3		
Chandler Score	138	127	90	174	193	56	73	38	111	100	84	79		
Diversity Index	0.95	1.47	1.68	1.58	0.94	1.48	1.09	0.32	0.41	0.38	1.37	0.53		
Physical and chemical data														
Temperature °C	15	15	14	10	11	5	5	4	6	9	10	11		
D.O.,mg/l	-	-	-	-	-	-	-	-	-	-	-	8.5		
pH	-	-	-	-	-	-	-	-	-	-	-	6.9		
Width in metres	2.6-3.3	2.6-3.3	2.0-3.3	2.0-3.3	2.0-4.5	2.5-4.5	2.5-3.0	3.0-4.5	2.5-4.5	2.3-4.5	2.0-3.0	2.0-3.0		
Depth in cms	7-15	7-15	7-15	7-25	7-25	7-25	7-30	7-25	15-25	15-27	7-25	7-25		
Current, m/sec	0.6	0.6	0.6	0.2	0.3	0.9	0.9	0.9	0.9	0.9	0.9	0.9		
Colour	cls.	cls.	cls.	cls.	cls.	cls.	cls.	gr.	gr.	cls.	cls.	cls.		
Clarity	cl.	cl.	cl.	cl.	cl.	cl.	cl.	t.	t.	cl.	cl.	cl.		
% Weed cover	5	5	50	75	50	5	-	-	-	-	10	25		
Weed types	Cl.	Cl.	Cl.	Cl.	Cl.	P.p	-	-	-	-	Cl.	Cl.		
			P.p	P.p	P.p							P.p		

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Station	6						RIVER STOUR						TABLE 36					
Year	1972 - 1973																	
Month	7	8	9	10	11	12	1	2	3	4	5	6						
Platyhelminthes																		
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-						
Oligochaeta																		
Tubificidae	17	33	2	24	3	-	5	18	1	12	6	12						
Enchytraeidae	549	124	187	13	62	302	40	311	149	180	116	218						
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-						
Naididae	-	-	-	-	-	-	-	-	-	-	-	-						
Hirudinea																		
Erpobdellidae	1	-	-	-	-	1	-	1	-	-	-	-						
Glossiphoniidae	-	-	1	-	-	-	-	-	-	-	-	-						
Crustacea																		
Asellus aquaticus	85	178	163	299	172	25	7	26	12	10	43	39						
Gammarus pulex	2	-	-	-	-	-	-	-	-	-	-	-						
Insecta																		
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-						
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-						
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-						
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-						
Trichoptera - csd	-	-	-	-	-	-	-	-	-	-	-	-						
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-						
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-						
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-						
Chironomidae	11	17	2	-	-	-	-	3	1	2	-	1						
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-						
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-						
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-						
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-						
Arachnida																		
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-						
Mollusca																		
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-						
Limnaea pereger	3	20	52	111	21	1	-	3	-	-	2	5						
Physa fontinalis	-	-	2	9	5	-	-	-	-	-	-	-						
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-						
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-						
Pisidium sp.	1	1	-	2	-	-	-	-	-	-	-	-						
Number of animals	669	373	409	458	263	329	52	362	163	205	167	275						
Number of species	8	6	7	6	5	4	3	6	4	5	4	5						
Trent Biotic Index	5	4	4	4	3	3	3	4	3	3	3	3						
Chandler Score	183	109	148	117	95	82	58	118	78	108	76	97						
Diversity Index	0.93	1.80	1.55	1.41	1.36	0.44	1.00	0.81	0.48	0.71	1.11	0.99						
Physical and chemical data																		
Temperature °C	12	13	11.5	9.5	9.5	5	8.5	6	5	8	9	12						
D.O.,mg/l	9.1	8.8	7.8	9.3	9.2	11.7	9.0	7.6	8.8	8.8	9.2	9.7						
pH	7.4	7.4	7.7	7.1	7.4	7.7	7.6	7.3	7.5	7.4	7.6	7.3						
Width in metres	2.0-3.3	2.3-3.0	2.0-2.3	2.0-3.3	2.0-3.3	3.0-5.5	2.0-3.0	3.0-4.5	2.5-4.5	2.0-4.5	2.0-4.5	2.0-3.0						
Depth in cms	7-15	7-25	7-15	7-25	7-15	15-30	7-25	7-25	25-30	7-25	7-15	7-30						
Current, m/sec	0.9	0.9	0.6	0.6	0.6	0.9	0.4	0.6	0.6	0.4	0.4	0.3						
Colour	cls.	cls.	cls.	gr.	gr.	br.	gr.	cls.	br.	br.	gr.	cls.						
Clarity	cl.	cl.	cl.	tr.	tr.	t.	t.	cl.	t.	tr.	t.	cl.						
% Weed cover	25	10	25	10	25	-	-	-	-	5	-	10						
Weed types	P.p	P.p	Cl.	P.p	P.p	P.p	-	-	-	Cl.	Cl.	Cl.						
	Cl.	Cl.	P.p	Cl.	Cl.	-	-	-	-	-	-	P.p						

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	7	RIVER STOUR						TABLE 37					
Year	1967 - 1968												
Month	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	
Oligochaeta													
Tubificidae	94	57	23	19	10	48	21	8	94	88	51	91	
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-	
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-	
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	
Hirudinea													
Erpobdellidae	1	-	1	-	-	-	1	-	-	1	1	-	
Glossiphoniidae	-	-	-	2	-	-	-	-	1	-	-	-	
Crustacea													
Asellus aquaticus	18	194	243	283	20	56	32	23	24	30	30	5	
Gammarus pulex	-	-	-	-	-	1	-	-	-	-	-	-	
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csd	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	
Chironomidae	18	71(2)	7	1	1	-	-	1	-	1	1	-	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	
Tipulidae	-	1	-	-	-	-	-	-	-	-	-	-	
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-	
Limnaea pereger	5	65	128	66	-	4	3	2	7	6	10	2	
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-	
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	1	1	3	7	-	-	-	-	1	-	-	-	
Number of animals	137	389	405	378	31	109	57	34	127	126	93	98	
Number of species	6	7	6	6	3	4	5	4	5	5	5	3	
Trent Biotic Index	4	4	4	4	3	4	3	3	3	3	3	3	
Chandler Score	133	153	118	127	64	95	83	92	114	110	122	64	
Diversity Index	1.42	1.83	1.37	1.13	1.07	1.25	1.32	1.26	1.11	1.17	1.48	0.43	
Physical and chemical data													
Temperature °C	7	7	14	10	8	4	2	2	4	4	8	12	
D.O.,mg/l	-	-	-	-	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	-	-	-	-	
Width in metres	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	
Depth in cms	7-15	7-5	7-15	7-15	25	7.5	7-15	7-15	7.5	7-15	7.5	7-15	
Current, m/sec	0.3	0.3	0.3	0.3	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
Colour	cls.	br.	gr.	cls.	br.	cls.	br.	br.	br.	cls.	cls.	cls	
Clarity	cl.	t.	t.	cl.	t.	cl.	t.	t.	tr.	cl.	cl.	cl.	
% Weed cover	10	-	-	5	-	-	-	-	20	5	25	25	
Weed types	Cl.	Cl.	Cl.	Cl.	-	-	-	-	Cl.	Cl.	Cl.	St.	
										St.	St.		

Figures in brackets denote numbers of species
Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	7	RIVER STOUR						TABLE 38					
Year	1968 - 1969												
Month	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	
Oligochaeta													
Tubificidae	73	75	211	45	46	125	50	106	243	205	55	189	
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-	
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	1	
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	
Hirudinea													
Erpobdellidae	-	-	1	1	-	-	-	-	-	-	-	-	
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-	
Crustacea													
Asellus aquaticus	26	10	75	35	8	11	1	17	-	3	4	4	
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-	
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csd	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	
Chironomidae	-	-	1	-	-	2	-	-	-	-	-	-	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-	
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-	
Limnaea pereger	10	51	185	56	5	10	1	10	4	1	7	1	
Physa fontinalis	-	-	5	3	2	1	-	-	2	-	-	-	
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	2	-	-	-	-	-	-	2	-	1	-	-	
Number of animals	111	136	478	140	61	149	52	135	249	210	66	195	
Number of species	4	3	6	5	4	5	3	4	3	4	3	4	
Trent Biotic Index	3	3	4	3	3	3	3	3	3	3	3	3	
Chandler Score	88	56	121	107	93	117	68	85	67	91	62	86	
Diversity Index	1.30	1.28	1.57	1.72	1.14	0.88	0.27	1.01	0.18	0.19	0.80	0.23	
Physical and chemical data													
Temperature °C	14	15	13	13	7	7	4	5	3	5	10	11	
D.O.,mg/l	-	-	-	-	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	-	-	-	-	
Width in metres	4.5	4.5	4.5	4.5	4.5	4.5	5.5	4.5	4.5	4.5	4.5	4.5	
Depth in cms	7-15	7-15	7.5	15	15	7.5	15-30	7-15	7-15	7-15	15	15	
Current, m/sec	0.3	0.2	0.3	0.3	0.4	0.4	0.6	0.3	0.2	0.2	0.3	0.6	
Colour	cls.	cls.	cls.	cls.	cls.	cls.	br.	cls.	cls.	cls.	cls.	cls.	
Clarity	cl.	cl.	cl.	cl.	cl.	cl.	t.	cl.	cl.	cl.	cl.	cl.	
% Weed cover	10	25	5	25	5	-	-	5	5	-	20	10	
Weed types	Cl.	Cl.	Cl.	Cl.	Cl.	-	-	Cl.	Cl.	-	Cl.	Cl.	

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	7	RIVER STOUR						TABLE 39					
Year	1969 - 1970												
Month	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	
Oligochaeta													
Tubificidae	47	83	193	66	18	44	24	37	51	28	96	6	
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-	
Lumbricidae	-	-	-	-	-	1	-	-	-	-	-	-	
Naididae	-	-	-	-	-	-	-	-	-	-	26	53	
Hirudinea													
Erpobdellidae	1	-	-	-	1	-	-	-	-	-	-	1	
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-	
Crustacea													
Asellus aquaticus	10	29	34	29	50	44	27	35	6	16	20	28	
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-	
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csd	-	-	-	-	-	-	-	-	-	1	-	-	
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	
Chironomidae	-	-	2	-	-	-	-	-	-	-	-	-	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-	
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-	
Limnaea pereger	5	16	53	74	46	19	13	8	1	3	21	48	
Physa fontinalis	-	-	14	36	39	11	1	1	-	-	-	2	
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	-	-	-	-	1	1	-	1	-	-	-	-	
Number of animals	63	128	296	205	155	120	65	82	58	48	163	13	
Number of species	4	3	5	4	6	6	4	5	3	4	4	6	
Trent Biotic Index	3	3	3	3	4	4	3	3	3	4	3	4	
Chandler Score	87	55	102	77	135	136	86	89	64	134	65	121	
Diversity Index	1.12	1.26	1.46	1.89	2.00	1.91	1.61	1.52	0.60	1.34	1.58	1.8	
Physical and chemical data													
Temperature °C	16	16	13	9	10	4	2	5	3	6	12	15	
D.O.,mg/l	-	-	-	-	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	-	-	-	-	
Width in metres	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	3.3	
Depth in cms	7-15	7-15	7.5	7-15	15-25	7.5	7.5	15-25	7-25	7-25	15-25	7-2	
Current, m/sec	0.3	0.4	0.4	0.3	0.6	0.4	0.3	0.9	0.4	0.3	0.3	0.3	
Colour	cls.	cls.	cls.	cls.	br.	cls.	cls.	br.	cls.	cls.	cls.	cls.	
Clarity	cl.	cl.	cl.	cl.	t.	cl.	cl.	t.	cl.	cl.	cl.	cl.	
% Weed cover	25	5	25	50	-	5	-	-	-	5	25	75	
Weed types	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	-	-	-	Cl. St.	Cl. St.	Cl.	

Figures in brackets denote numbers of species
Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	7	RIVER STOUR						TABLE 40					
Year	1970 - 1971												
Month	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	
Oligochaeta													
Tubificidae	19	5	10	42	45	46	17	120	99	50	26	3	
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	245	194	
Lumbricidae	-	-	-	-	1	-	-	-	-	-	-	-	
Naididae	23	10	-	-	-	-	-	-	-	-	-	-	
Hirudinea													
Erpobdellidae	-	2	-	-	-	1	-	2	-	-	-	-	
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-	
Crustacea													
Asellus aquaticus	55	133	148	29	56	9	3	2	11	10	15	33	
Gammarus pulex	-	2	1	-	-	-	-	-	-	-	-	-	
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csd	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera larvae	-	-	-	-	-	1	-	-	-	-	-	-	
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	
Chironomidae	3	4	1	-	-	-	-	-	-	-	1	9	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-	
Other Diptera	-	1	-	-	-	-	-	-	-	-	-	-	
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-	
Limnaea pereger	20	79	16	9	3	-	-	-	-	1	3	3	
Physa fontinalis	1	15	1	-	-	-	-	-	-	-	-	-	
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Number of animals	121	251	177	80	105	57	20	124	110	61	290	242	
Number of species	6	9	6	3	4	4	2	3	2	3	5	5	
Trent Biotic Index	4	5	5	3	3	3	3	3	3	3	3	3	
Chandler Score	117	240	151	59	80	110	35	58	30	65	97	99	
Diversity Index	2.01	1.78	0.89	1.37	1.21	0.87	0.61	0.23	0.46	0.76	0.83	0.98	
Physical and chemical data													
Temperature °C	12	16	14	11	10	8	1	4	4	7	12	11	
D.O.,mg/l	-	-	-	-	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	-	-	-	-	
Width in metres	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	
Depth in cms	7-15	7-25	7-25	7-15	7-15	25	7-15	15-25	15-25	15-25	7-25	15-25	
Current, m/sec	0.3	0.4	0.3	0.3	0.6	0.9	0.3	0.6	0.6	0.4	0.3	0.3	
Colour	cls.	cls.	cls.	cls.	cls.	br.	cls.	gr.	br.	cls.	cls.	cls.	
Clarity	cl.	cl.	cl.	cl.	cl.	t.	cl.	tr.	t.	cl.	cl.	cl.	
% Weed cover	75	90	10	10	-	-	-	-	-	-	-	-	
Weed types	Cl.	Cl.	Cl.	Cl.	-	-	-	-	-	-	-	-	

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	7	RIVER STOUR						TABLE 41					
Year	1971 - 1972												
Month	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	-	-	3	1	1	-	-	-	-	-	-	-	
Oligochaeta													
Tubificidae	2	35	-	4	4	14	3	13	17	51	34	19	
Enchytraeidae	209	-	69	7	-	-	-	-	-	-	-	-	
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-	
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	
Hirudinea													
Erpobdellidae	2	3	3	-	-	1	-	-	-	-	1	-	
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-	
Crustacea													
Asellus aquaticus	51	54	158	120	50	21	3	12	10	5	33	143	
Gammarus pulex	-	-	-	2	-	-	-	-	-	-	-	-	
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csd	-	1	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	
Chironomidae	7	2	-	1	-	1	-	-	1	1	7	1	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-	
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	-	1	-	-	-	-	-	-	-	-	-	-	
Limnaea pereger	3	58	80	21	8	8	-	-	1	1	5	4	
Physa fontinalis	-	7	-	1	-	1	-	-	-	-	-	-	
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Number of animals	274	161	313	157	63	46	6	25	29	58	80	342	
Number of species	6	8	5	8	4	6	2	2	4	4	5	4	
Trent Biotic Index	4	5	3	5	3	4	3	3	3	3	3	3	
Chandler Score	123	230	99	208	99	141	40	31	93	92	108	75	
Diversity Index	1.06	2.01	1.61	1.23	0.99	1.83	1.00	0.99	1.31	0.67	1.68	1.09	
Physical and chemical data													
Temperature °C	15	15	14	10	11	5	5	4	6	9	10	11	
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	8.3	
pH	-	-	-	-	-	-	-	-	-	-	-	7.0	
Width in metres	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	
Depth in cms	7-25	7-25	7-25	7-25	7-15	7-15	7-25	25-30	25-30	15-25	7-15	7-15	
Current, m/sec	0.4	0.4	0.3	0.3	0.3	0.6	0.4	0.9	0.6	0.6	0.4	0.6	
Colour	cls.	cls.	cls.	cls.	cls.	cls.	cls.	gr.	gr.	cls.	cls.	cls.	
Clarity	cl.	cl.	cl.	cl.	cl.	cl.	cl.	t.	t.	cl.	cl.	cl.	
% Weed cover	25	5	5	-	5	-	-	-	-	-	5	10	
Weed types	Cl.	Cl.	Cl.	-	Cl.	-	-	-	-	-	Cl.	Cl.	

Figures in brackets denote numbers of species
Key to abbreviations on page 1.

Station	7		RIVER STOUR					TABLE 42					
Year	1972 - 1973												
Month	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	-	-	4	-	-	-	-	-	-	-	-	-	
Oligochaeta													
Tubificidae	14	11	5	19	12	8	10	19	4	1	18	17	
Enchytraeidae	260	13	352	296	181	214	89	129	148	209	124	188	
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-	
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	
Hirudinea													
Erpobdellidae	-	1	-	-	1	-	-	-	2(2)	-	-	-	
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-	
Crustacea													
Asellus aquaticus	99	179	225	67	46	6	14	16	23	19	18	17	
Gammarus pulex	2	1	-	-	1	-	-	-	-	-	-	-	
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csd-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csls-	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera larvae-	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera adults-	-	-	-	-	-	-	-	-	-	-	-	-	
Chironomidae	7	3	-	2	-	1	2	1	3	-	-	1	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-	
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	2	1	5	-	-	-	-	-	-	-	-	-	
Limnaea pereger	9	35	151	63	17	1	6	2	3	6	1	2	
Physa fontinalis	-	-	5	-	1	-	-	-	-	-	-	-	
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Number of animals	393	244	747	447	259	230	121	167	183	235	161	225	
Number of species	7	8	7	5	7	5	5	5	7	4	4	5	
Trent Biotic Index	5	5	4	3	5	3	3	3	4	3	3	3	
Chandler Score	160	185	145	87	160	108	106	99	123	78	71	99	
Diversity Index	1.37	1.33	1.68	1.43	1.36	0.47	1.29	1.08	1.02	0.61	1.04	0.87	
Physical and chemical data													
Temperature °C	12	13	11.5	9	9.5	5	8.5	6.5	5	8	9	12	
D.O.,mg/l	6.1	8.3	6.1	9.1	8.8	11.4	9.2	7.7	8.7	8.8	9.1	9.2	
pH	7.4	7.5	7.6	7.1	7.4	7.7	7.6	7.6	7.4	7.5	7.5	7.5	
Width in metres	4.5	4.5	4.5	4.5	4.5	4.5-5.5	4.5	4.5	4.5	4.5	4.5	4.5	
Depth in cms	7-15	7-15	7-15	7-15	7-15	25	7-15	7-15	15-25	7-15	7-25	7-15	
Current, m/sec	0.4	0.6	0.3	0.4	0.4	0.6	0.4	0.6	0.3	0.3	0.3	0.3	
Colour	cls.	cls.	cls.	cls.	cls.	br. gr.	cls.	br.	br.	cls.	cls.	cls.	
Clarity	cl.	cl.	cl.	cl.	cl.	t. t.	cl.	t.	tr.	cl.	cl.	cl.	
% Weed cover	5	10	25	5	5	-	5	-	5	10	10	10	
Weed types	Cl.	Cl.	Cl.	Cl.	Cl.	-	Cl.	-	Cl.	Cl.	Cl.	Cl.	

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	8	RIVER STOUR										TABLE 43	
Year	1967 - 1968												
Month	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	
Oligochaeta													
Tubificidae	16	98	108	30	28	25	16	6	95	108	16	13	
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-	
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-	
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	
Hirudinea													
Erpobdellidae	4	-	1	7	2	2	6	2	-	2	-	-	
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-	
Crustacea													
Asellus aquaticus	5	9	144	157	71	58	134	51	43	39	45	7	
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-	
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csd	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	
Chironomidae	3	54(2)	22	-	-	-	-	-	-	2	-	-	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	
Tipulidae	-	1	-	-	-	-	-	-	-	-	-	-	
Other Diptera	-	-	-	-	-	-	1	-	-	-	-	-	
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-	
Limnaea pereger	5	33	546	102	53	71	119	76	55	83	161	66	
Physa fontinalis	-	1	21	9	15	13	26	20	9	14	11	3	
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	-	-	4	-	4	7	-	4	1	-	2	1	
Number of animals	33	196	846	305	173	176	302	159	203	248	235	90	
Number of species	5	7	7	5	6	6	6	6	5	6	5	5	
Trent Biotic Index	3	4	4	3	4	4	4	4	3	4	3	3	
Chandler Score	108	167	135	89	126	126	110	131	110	126	104	115	
Diversity Index	2.01	1.72	1.53	1.62	1.98	1.99	1.71	1.80	1.73	1.81	1.36	1.25	
Physical and chemical data													
Temperature °C	7	7	14	10	8	4	2	2	4	4	8	12	
D.O.,mg/l	-	-	-	-	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	-	-	-	-	
Width in metres	6.0-7.5	7.5	7.5	6.0-7.5	7.5-9.0	7.5-9.0	7.5-9.0	7.5-9.0	7.5	7.5	7.5-9.0	7.5-9.0	
Depth in cms	7-15	7.5	7.5	7-15	15-25	7-15	7-15	7-15	7-15	7.5	7.5	7.5	
Current, m/sec	0.3	0.3	0.2	0.6	0.4	0.3	0.3	0.4	0.3	0.3	0.3	0.4	
Colour	cls.	br.	cls.	br.	br.	gr.	br.	br.	gr.	cls.	cls.	cls.	
Clarity	cl.	tr.	cl.	tr.	t.	tr.	tr.	t.	t.	cl.	cl.	cl.	
% Weed cover	50	50	50	50	-	10	5	-	-	50	75	75	
Weed types	St.	P.p	P.p	P.p	P.p	P.p	P.p	P.p	St.	St.	P.p	St.	
	P.p								P.p	P.p	St.	P.p	

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	8	RIVER STOUR												TABLE 44			
Year	1968 - 1969																
Month	7	8	9	10	11	12	1	2	3	4	5	6					
Platyhelminthes																	
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-					
Oligochaeta																	
Tubificidae	1	-	27	-	3	16	-	-	14	31	16	88					
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-					
Lumbricidae	-	-	-	-	-	-	-	-	-	-	1	-					
Naididae	-	-	-	-	-	-	-	-	-	-	-	-					
Hirudinea																	
Erpobdellidae	3	-	-	-	1	-	-	1	-	-	-	-					
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-					
Crustacea																	
Asellus aquaticus	44	10	50	35	81	68	134	64	32	20	12	14					
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-					
Insecta																	
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-					
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-					
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-					
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-					
Trichoptera - csd	-	-	-	-	-	-	-	-	-	-	-	-					
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-					
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-					
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-					
Chironomidae	-	-	3	-	-	-	-	-	-	-	-	-					
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-					
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-					
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-					
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-					
Arachnida																	
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-					
Mollusca																	
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-					
Limnaea pereger	77	43	158	25	33	68	40	48	35	12	11	5					
Physa fontinalis	1	5	24	13	60	54	30	33	9	2	2	-					
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-					
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-					
Pisidium sp.	2	1	1	-	4	2	2	1	5	2	1	-					
Number of animals	128	59	263	73	182	208	206	147	95	67	43	107					
Number of species	6	4	6	3	6	5	4	5	5	5	6	3					
Trent Biotic Index	4	3	4	3	4	3	3	3	3	3	4	3					
Chandler Score	142	105	129	68	131	101	90	118	112	117	141	58					
Diversity Index	1.30	1.16	1.65	1.48	1.75	1.90	1.33	1.63	2.01	1.78	2.00	0.82					
Physical and chemical data																	
Temperature °C	14	15	14	13	7	7	4	6	5	7	10	11					
D.O.,mg/l	-	-	-	-	-	-	-	-	-	-	-	-					
pH	-	-	-	-	-	-	-	-	-	-	-	-					
Width in metres	7.5-9.0	7.5-9.0	7.5-9.0	7.5-9.0	7.5	7.5-9.0	7.5-10.5	7.5-9.0	7.5-10.5	7.5-10.5	7.5-10.5	7.5-10.5					
Depth in cms	7.5	7.5	7.5	7-15	7-15	7-15	15	7-15	7-15	7-25	15	7-15					
Current, m/sec	0.3	0.3	0.3	0.3	0.6	0.6	0.9	0.6	0.4	0.4	0.4	0.9					
Colour	cls.	cls.	cls.	cls.	cls.	cls.	br.	cls.	cls.	cls.	cls.	cls.					
Clarity	cl.	cl.	cl.	cl.	cl.	cl.	t.	cl.	cl.	cl.	cl.	cl.					
% Weed cover	75	75	75	75	25	25	-	10	5	50	50	5					
Weed types	P.p St.	P.p St.	P.p	P.p Cl.	P.p	P.p	P.p	P.p	P.p St.	St.	St.	St.					

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	8	RIVER STOUR												TABLE 45			
Year		1969 - 1970															
Month		7	8	9	10	11	12	1	2	3	4	5	6				
Platyhelminthes																	
Turbellaria		-	-	-	-	-	-	-	-	-	-	-	-				
Oligochaeta																	
Tubificidae		11	24	41	6	-	8	3	3	45	23	36	2				
Enchytraeidae		-	-	-	-	-	-	-	-	-	-	-	-				
Lumbricidae		-	1	-	-	-	-	-	-	-	-	-	-				
Naididae		-	-	-	-	-	-	-	-	-	-	-	-	34			
Hirudinea																	
Erpobdellidae		-	-	-	-	-	-	1	2	-	-	-	-	2			
Glossiphoniidae		-	-	-	-	-	-	-	-	-	-	-	-				
Crustacea																	
Asellus aquaticus		23	27	84	95	117	107	88	152	23	28	85	10				
Gammarus pulex		-	-	-	-	-	-	-	-	-	-	-	-				
Insecta																	
Ephemeroptera		-	-	-	-	-	-	-	-	-	-	-	-				
Baetis rhodani		-	-	-	-	-	-	-	-	-	-	-	-				
Sialis spp.		-	-	-	-	-	-	-	-	-	-	-	-				
Plecoptera		-	-	-	-	-	-	-	-	-	-	-	-				
Trichoptera - csd		-	-	-	-	-	-	-	-	-	-	-	-				
Trichoptera - csls		-	-	-	-	-	-	-	-	-	-	-	-				
Coleoptera larvae		-	-	-	-	-	-	-	-	-	-	-	-				
Coleoptera adults		-	-	-	-	-	-	-	-	-	-	-	-				
Chironomidae		-	10	27	-	-	-	-	-	-	2	-	1				
C. riparius		-	-	-	-	-	-	-	-	-	-	-	-				
Simuliidae		-	-	-	-	-	-	-	-	-	-	-	-				
Tipulidae		-	-	-	-	-	-	-	-	-	-	-	-				
Other Diptera		-	-	-	-	-	-	-	-	-	-	-	-				
Arachnida																	
Hydracarina		-	-	-	-	-	-	-	-	-	-	-	-				
Mollusca																	
P. jenkinsi		-	-	-	-	-	-	-	-	-	-	-	-				
Limnaea pereger		3	15	96	68	50	78	68	33	48	38	78	77				
Physa fontinalis		2	-	11	10	23	40	26	13	13	2	6	2				
Ancylidae sp.		-	-	-	-	-	-	-	-	-	-	-	-				
Sphaerium sp.		-	-	-	-	-	-	-	-	-	-	-	-				
Pisidium sp.		-	3	1	2	4	3	1	4	1	-	2	3				
Number of animals		39	80	260	181	194	236	187	207	130	93	207	131				
Number of species		4	6	6	5	4	5	6	6	5	5	5	8				
Trent Biotic Index		3	4	4	3	3	3	4	4	3	3	3	4				
Chandler Score		89	134	125	112	88	103	133	130	111	109	107	188				
Diversity Index		1.46	2.13	2.04	1.48	1.42	1.72	1.61	1.26	1.88	1.78	1.71	1.69				
Physical and chemical data																	
Temperature °C		16	16	13	9	10	4	2	5	4	7	13	15				
D.O.,mg/l		-	-	-	-	-	-	-	-	-	-	-	-				
pH		-	-	-	-	-	-	-	-	-	-	-	-				
Width in metres		7.5-10.5	7.5-10.5	7.5-10.5	7.5-10.5	7.5-10.5	7.5-10.5	7.5-10.5	7.5-10.5	7.5-10.5	7.5-10.5	7.5-10.5	7.5-10.5				
Depth in cms		7-15	7-15	7-15	7.5-15	15-25	15	7-15	15-30	7-15	7-15	7-15	7-25				
Current, m/sec		0.6	0.9	0.9	0.4	0.7	0.6	0.4	1.2	0.6	0.6	0.6	0.6				
Colour		cls.	cls.	cls.	cls.	br.	cls.	cls.	br.	cls.	gr	cls.	cls.				
Clarity		cl.	cl.	cl.	cl.	t.	cl.	cl.	t.	cl.	tr.	cl.	cl.				
% Weed cover		75	25	50	50	-	50	10	-	5	25	50	75				
Weed types		St.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	-	St.	St.	St.	P.p.				
		P.p.	St.	St.	St.								St.				

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Year	1970 - 1971											
Month	7	8	9	10	11	12	1	2	3	4	5	6
Platyhelminthes												
Turbellaria	-	-	-	-	-	2	-	-	-	-	-	6
Oligochaeta												
Tubificidae	7	2	-	31	14	50	103	41	99	33	21	1
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	105	165
Lumbricidae	-	-	1	-	-	-	-	-	-	-	-	-
Naididae	30	2	-	-	-	-	-	-	-	-	-	-
Hirudinea												
Erpobdellidae	-	-	-	-	-	3	1	2	2	1	-	1
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-
Crustacea												
Asellus aquaticus	119	86	67	76	145	193	135	57	31	43	9	47
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-
Insecta												
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csc	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csis	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-
Chironomidae	14	15	5	-	-	-	-	-	-	-	-	10
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-
Arachnida												
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-
Limnaea pereger	64	60	17	31	29	97	159	98	47	26	31	29
Physa fontinalis	5	9	5	23	22	84	53	27	12	3	-	-
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	-	1	2	1	6	33	23	10	10	5	6	5
Number of animals	239	175	97	162	216	462	474	235	201	111	172	258
Number of species	6	7	6	5	5	7	6	6	6	6	5	7
Trent Biotic Index	4	4	4	3	3	4	4	4	4	4	3	4
Chandler Score	109	157	147	107	101	147	108	126	132	136	98	152
Diversity Index	1.89	1.74	1.43	1.87	1.51	2.14	2.10	2.07	1.93	1.94	1.64	1.56
Physical and chemical data												
Temperature °C	13	16	15	11	10	8	1	4	4	8	12	12
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	-
pH	-	-	-	-	-	-	-	-	-	-	-	-
Width in metres	7.5-10.5	7.5-10.5	7.5-10.5	7.5-10.5	7.5-10.5	7.5-10.5	7.5-9.0	7.5-9.0	7.5-9.0	7.5-9.0	7.5-9.0	7.5-9.0
Depth in cms	7.5	7-15	7.5	7-15	7-15	25-30	15	15-25	15-25	15	15	15
Current, m/sec	0.6	0.9	0.6	0.6	0.6	0.6	0.3	0.6	0.6	0.6	0.6	0.6
Colour	cls.	cls.	cls.	cls.	cls.	br.	gr.	gr.	br.	cls.	cls.	cls.
Clarity	cl.	cl.	cl.	cl.	cl.	t.	tr.	tr.	t.	cl.	cl.	cl.
% Weed cover	75	75	75	50	25	-	50	25	-	5	50	50
Weed types	P.p	P.p	P.p	P.p	P.p	P.p	P.p	P.p	P.p	P.p	P.p	P.p
	St.		St.	St.						St.	St.	St.

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	8	RIVER STOUR						TABLE 47					
Year	1971 - 1972												
Month	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	-	-	-	-	-	2	-	-	-	-	-	-	
Oligochaeta													
Tubificidae	-	6	2	-	9	39	26	22	181	189	61	107	
Enchytraeidae	7	-	30	3	-	-	-	-	-	-	-	81	
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-	
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	
Hirudinea													
Erpobdellidae	4	2	1	-	2	3	4	5	3	4	2	1	
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-	
Crustacea													
Asellus aquaticus	33	65	193	190	478	588	416	44	53	32	48	146	
Gammarus pulex	-	-	-	-	1	-	-	-	-	-	-	-	
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csd	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	
Chironomidae	3	1	4	1	-	-	-	-	-	2	2	-	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-	
Other Diptera	-	-	-	-	-	1	-	-	1	-	-	-	
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-	
Limnaea pereger	37	61	83	18	13	164	34	25	18	18	7	5	
Physa fontinalis	3	17	22	23	15	95	47	17	2	2	-	-	
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	5	9	7	5	43	66	26	38	25	17	3	6	
Number of animals	92	161	342	240	561	958	553	151	283	264	123	346	
Number of species	7	7	8	6	7	8	6	6	7	7	6	6	
Trent Biotic Index	4	4	4	4	5	4	4	4	4	4	4	4	
Chandler Score	166	159	174	138	167	164	118	126	143	155	138	113	
Diversity Index	2.08	1.93	1.78	1.10	0.88	1.70	1.32	2.37	1.57	1.43	1.59	1.75	
Physical and chemical data													
Temperature °C	16	16	15	11	12	6	6	6	7	10	11	13	
D.O.,mg/l	-	-	-	-	-	-	-	-	-	-	-	8.7	
pH	-	-	-	-	-	-	-	-	-	-	-	7.1	
Width in metres	7.5-9.0	7.5-9.0	7.5-9.0	7.5-9.0	7.5-9.0	7.5-9.0	7.5-9.0	7.5-9.0	7.5-9.0	7.5-9.0	7.5-9.0	7.5-9.0	
Depth in cms	7-15	7-15	7-15	7-15	7-15	7-15	7-15	30	25	7-15	7-15	15	
Current, m/sec	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.9	0.6	0.6	0.6	
Colour	cls.	cls.	cls.	cls.	cls.	gr.	cls.	gr.	gr.	cls.	cls.	cls.	
Clarity	cl.	cl.	cl.	cl.	cl.	tr.	cl.	t.	t.	cl.	cl.	cl.	
% Weed cover	75	75	90	75	75	50	25	-	-	50	50	75	
Weed types	P.p St. Cl.	P.p Cl.	P.p Cl.	P.p Cl.	P.p Cl.	P.p	P.p	P.p	P.p	St. P.p	St. P.p	Cl. P.p	
Figures in brackets indicate numbers of species													

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

<u>Station</u>	8	<u>RIVER STOUR</u>											<u>TABLE 48</u>
<u>Year</u>		<u>1972 - 1973</u>											
<u>Month</u>	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta													
Tubificidae	5	5	-	-	3	-	3	1	2	-	8	6	
Enchytraeidae	123	5	45	17	27	44	62	101	83	159	65	42	
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-	
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	
Hirudinea													
Erpobdellidae	2	-	-	-	1	1	1	1	1	1	-	1	
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-	
Crustacea													
Asellus aquaticus	253	318	288	81	56	23	8	33	42	52	159	15	
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-	
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csd	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	
Chironomidae	46	3	16	-	-	-	-	-	-	4	1	-	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-	
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-	
Limnaea pereger	98	58	75	11	13	8	2	4	2	4	12	1	
Physa fontinalis	5	9	5	1	-	1	-	-	-	1	1	-	
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	4	10	16	-	1	1	-	-	-	-	-	1	
Number of animals	536	408	445	110	101	78	76	140	130	221	246	66	
Number of species	8	7	6	4	6	6	5	5	5	6	6	6	
Trent Biotic Index	4	4	4	3	4	4	3	3	3	4	4	4	
Chandler Score	161	153	124	87	99	148	108	102	108	131	128	138	
Diversity Index	1.96	1.14	1.59	1.13	1.64	1.56	0.98	1.08	1.17	1.11	1.35	1.49	
Physical and chemical data													
Temperature °C	13.5	13	12	10	11	6	10	7.5	6.5	9.5	9.5	14	
D.O.,mg/l	6.2	9.1	8.3	10.4	10.1	10.6	9.5	8.7	8.4	8.4	9.2	9.0	
pH	7.2	7.3	7.6	7.2	7.6	7.7	7.5	7.3	7.4	7.5	7.5	7.1	
Width in metres	7.5-	7.5-	7.5-	7.5-	7.5-	7.5-	7.5-	7.5-	7.5-	7.5-	7.5-	7.5-	
	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	
Depth in cms	7-15	7-15	7-15	7-15	7-15	15-25	7-15	7-15	7-15	7-15	7-15	7-15	
Current, m/sec	0.6	0.6	0.6	0.9	0.6	0.9	0.7	0.6	0.6	0.6	0.6	0.6	
Colour	cls.	cls.	cls.	cls.	cls.	br.	cls.	cls.	cls.	cls.	cls.	br.	
Clarity	cl.	cl.	cl.	cl.	cl.	t.	cl.	cl.	cl.	cl.	cl.	t.	
% Weed cover	75	90	75	50	25	-	5	5	5	5	10	-	
Weed types	P.p	P.p	P.p	P.p	P.p	-	P.p	P.p	P.p	P.p	P.p	-	
	Cl.	Cl.	Cl.	Cl.	Cl.			St.		Cl.	Cl.		

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Station	9	RIVER STOUR												TABLE 49			
Year	1967 - 1968																
Month	7	8	9	10	11	12	1	2	3	4	5	6					
Platyhelminthes																	
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-					
Oligochaeta																	
Tubificidae	-	1	7	1	9	6	4	6	17	22	-	-					
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-					
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-					
Naididae	-	-	-	-	-	-	-	-	-	-	-	-					
Hirudinea																	
Erpobdellidae	3	2	-	-	-	2	-	2	3	1	1	1					
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-					
Crustacea																	
Asellus aquaticus	-	12	42	5	5	32	6	18	16	8	18	6					
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-					
Insecta																	
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-					
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-					
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-					
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-					
Trichoptera - csl	-	-	-	-	-	-	-	-	-	-	-	-					
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-					
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-					
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-					
Chironomidae	1	40	3	-	-	-	-	-	-	1	-	-					
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-					
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-					
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-					
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-					
Arachnida																	
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-					
Mollusca																	
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-					
Limnaea pereger	5	21	70	1	5	1	1	1	8	5	4	9					
Physa fontinalis	-	-	5	2	4	3	-	1	3	4	3	3					
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-					
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-					
Pisidium sp.	-	-	1	-	1	-	-	1	-	-	-	-					
Number of animals	9	76	128	9	24	44	11	29	47	41	26	19					
Number of species	3	5	6	4	5	5	3	6	5	6	4	4					
Trent Biotic Index	2	3	4	3	3	3	3	4	3	4	3	3					
Chandler Score	76	110	141	100	122	118	70	150	107	143	98	102					
Diversity Index	1.35	1.64	1.59	1.65	2.09	1.31	1.32	1.66	2.00	1.90	1.32	1.68					
Physical and chemical data																	
Temperature °C	7	7	14	10	8	4	2	2	4	4	8	12					
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	-					
pH	-	-	-	-	-	-	-	-	-	-	-	-					
Width in metres	5-6	6.0	5.5	5.5	4.5	5.5	5.5	5.5	5.5	5.5	4.5-5.5	4.5-5.5					
Depth in cms	25-30	7-30	7-25	7-30	25-30	7-15	7-25	7-25	7-15	7-15	7-15	7-15					
Current, m/sec	0.4	0.3	0.3	0.6	0.6	0.4	0.4	0.3	0.3	0.3	0.4	0.4					
Colour	cls.	cls.	cls.	br.	br.	gr.	br.	br.	gr.	cls.	cls.	cls.					
Clarity	cl.	cl.	cl.	t.	t.	tr.	tr.	t.	tr.	cl.	cl.	cl.					
% Weed cover	95	50	75	-	-	50	5	-	50	75	75	75					
Weed types	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	St.	St.	St.	St.					
	St.								P.p.	P.p.	P.p.	P.p.					

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	9	RIVER STOUR											TABLE 50		
Year	1968 - 1969														
Month	7	8	9	10	11	12	1	2	3	4	5	6			
Platyhelminthes															
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Oligochaeta															
Tubificidae	1	1	2	-	-	4	3	2	29	28	13	21			
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hirudinea															
Erpobdellidae	1	-	-	-	-	-	1	-	-	-	1	1			
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Crustacea															
Asellus aquaticus	16	36	33	22	59	51	40	48	42	7	10	3			
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Insecta															
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csl	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chironomidae	3	-	3	3	-	-	-	-	-	-	-	-	-	-	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arachnida															
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mollusca															
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Limnaea pereger	26	28	28	13	30	21	14	24	23	8	2	2			
Physa fontinalis	5	16	30	35	82	51	27	19	7	-	2	-			
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	-	-	-	-	2	2	-	1	2	3	-	-	-	-	
Number of animals	52	81	96	73	173	129	85	94	103	46	28	27			
Number of species	6	4	5	4	4	5	5	5	5	4	5	4			
Trent Biotic Index	4	3	3	3	3	3	3	3	3	3	3	3			
Chandler Score	142	90	115	93	91	109	110	120	114	91	119	89			
Diversity Index	1.80	1.59	1.84	1.66	1.55	1.73	1.71	1.65	1.90	1.54	1.76	1.08			
Physical and chemical data															
Temperature °C	14	15	14	13	7	7	4	6	5	7	10	11			
D.O.,mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Width in metres	5.5	5.5	5.5- 6.0	5.5	5.5	5.5- 6.0	6.0	6.0	5.0- 5.5	5.5	5.5- 6.0	6.0			
Depth in cms	7-15	7-15	7-15	15	7-15	7-15	15-25	15	15-25	15-25	15	15-25			
Current, m/sec	0.3	0.4	0.6	0.6	0.9	0.9	1.2	0.7	0.6	0.6	0.6	0.9			
Colour	cls.	cls.	cls.	cls.	cls.	cls.	hr.	cls.	cls.	cls.	cls.	cls.			
Clarity	cl.	cl.	cl.	cl.	cl.	cl.	t.	cl.	cl.	cl.	cl.	cl.			
% Weed cover	75	75	75	75	50	75	-	10	25	50	90	25			
Weed types	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	St.	St.	P.p.			
		St.								P.p.	P.p.	St.			

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Station	9	RIVER STOUR						TABLE 51					
Year	1969 - 1970												
Month	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	
Oligochaeta													
Tubificidae	29	2	-	2	-	9	-	24	20	10	31	-	
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-	
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-	
Naididae	-	-	-	-	-	-	-	-	-	-	-	13	
Hirudinea													
Erpobdellidae	1	-	-	-	-	-	1	-	1	1	1	3	
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-	
Crustacea													
Asellus aquaticus	20	23	17	86	12	52	28	14	30	20	45	21	
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-	
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csl	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	
Chironomidae	5	-	1	4	-	-	-	-	-	-	1	-	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-	
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-	
Limnaea pereger	8	9	47	48	35	85	68	14	28	19	116	73	
Physa fontinalis	-	1	2	9	18	25	33	12	3	6	10	6	
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	-	-	-	2	-	3	2	8	5	4	19	-	
Number of animals	63	35	67	151	65	174	132	72	87	60	223	116	
Number of species	5	4	4	6	3	5	5	5	6	6	7	5	
Trent Biotic Index	4	4	4	5	4	3	3	3	4	4	4	3	
Chandler Score	113	105	101	144	68	107	119	109	136	141	154	98	
Diversity Index	1.80	1.28	1.10	1.53	1.44	1.75	1.61	2.23	2.02	2.17	1.92	1.57	
Physical and chemical data													
Temperature °C	16	16	13	9	10	4	2	5	4	7	13	15	
D.O.,mg/l	-	-	-	-	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	-	-	-	-	
Width in metres	5.5-6.0	5.5-6.0	6.0	6.0	6.0	6.0	5.5-6.0	6.0	6.0	6.0	5.5-6.0	6.0	
Depth in cms	15-25	15-25	25-30	15-25	15-40	25	15-25	15-30	15-25	15-30	25	15-25	
Current, m/sec	0.6	0.9	0.9	0.6	0.9	0.7	0.6	0.9	0.7	0.9	0.6	0.6	
Colour	cls.	cls.	cls.	cls.	br.	cls.	cls.	gr.	cls.	gr.	cls.	cls.	
Clarity	cl.	cl.	cl.	cl.	t.	cl.	cl.	t.	cl.	tr.	cl.	cl.	
% Weed cover	75	90	90	90	-	90	75	-	10	50	50	90	
Weed types	P.p. St.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	St. P.p.	St. P.p.	P.p. St.	

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	9 RIVER STOUR												TABLE 52			
Year	1970 - 1971															
Month	7	8	9	10	11	12	1	2	3	4	5	6				
Platyhelminthes																
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-				
Oligochaeta																
Tubificidae	3	-	6	5	5	24	58	54	272	37	75	48				
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	84	117				
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-				
Naididae	6	-	-	-	-	-	-	-	-	-	-	-				
Hirudinea																
Erpobdellidae	2	-	-	-	-	2	-	-	-	1	-	-				
Glossiphoniidae	-	-	-	-	-	-	-	-	1	-	-	-				
Crustacea																
Asellus aquaticus	58	82	63	62	18	59	102	15	24	13	17	31				
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-				
Insecta																
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-				
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-				
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-				
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-				
Trichoptera - csd	-	-	-	-	-	-	-	-	-	-	-	-				
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-				
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-				
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-				
Chironomidae	9	8	38	-	-	-	-	-	-	-	-	4				
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-				
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-				
Tipulidae	-	-	-	-	-	-	-	-	-	-	1	-				
Other Diptera	-	-	-	-	-	-	-	-	-	1	-	-				
Arachnida																
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-				
Mollusca																
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-				
Limnaea pereger	77	59	80	104	62	84	237	107	71	27	52	68				
Physa fontinalis	8	41	17	68	22	39	61	14	8	5	-	1				
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-				
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-				
Pisidium sp.	1	-	-	-	3	7	24	14	13	2	2	3				
Number of animals	164	190	204	239	110	215	482	204	389	86	231	272				
Number of species	8	4	5	4	5	6	5	5	6	7	6	7				
Trent Biotic Index	4	3	3	3	3	4	3	3	4	4	4	4				
Chandler Score	177	100	100	72	111	126	88	98	128	198	154	144				
Diversity Index	1.88	1.71	1.95	1.66	1.70	2.06	1.93	1.80	1.35	1.97	1.91	2.01				
Physical and chemical data																
Temperature °C	13	16	15	11	10	8	1	4	4	8	12	12				
D.O.,mg/l	-	-	-	-	-	-	-	-	-	-	-	-				
pH	-	-	-	-	-	-	-	-	-	-	-	-				
Width in metres	6.0	6.0	5.5-6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0				
Depth in cms	15-25	15-25	15-30	7-30	15-30	40	7-30	25-30	30-40	15-30	25-30	15-2				
Current, m/sec	0.6	0.9	0.6	0.6	0.6	0.9	0.6	0.6	0.6	0.6	0.3	0.6				
Colour	cls.	cls.	cls.	cls.	cls.	br.	gr.	gr.	br.	cls.	cls.	cls.				
Clarity	cl.	cl.	cl.	cl.	cl.	t.	tr.	tr.	t.	cl.	cl.	cl.				
% Weed cover	90	75	75	75	75	-	75	25	-	50	75	75				
Weed types	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.				
	St.	St.	St.								St.	St.				

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Station	9	RIVER STOUR										TABLE 53		
Year		1971 - 1972												
Month	7	8	9	10	11	12	1	2	3	4	5	6		
Platyhelminthes														
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-		
Oligochaeta														
Tubificidae	5	5	9	1	5	24	19	37	39	72	56	47		
Enchytraeidae	46	-	-	-	-	-	-	-	-	-	-	50		
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-		
Naididae	-	-	-	-	-	-	-	-	-	-	-	-		
Hirudinea														
Eryobdellidae	-	1	-	-	-	-	-	1	1	-	1	-		
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-		
Crustacea														
Asellus aquaticus	7	2	172	119	73	45	102	75	36	56	177	102		
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-		
Insecta														
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-		
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-		
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-		
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-		
Trichoptera - csd	-	-	-	-	-	-	-	-	-	-	-	-		
Trichoptera - csfs	-	-	-	-	-	-	-	-	-	-	-	-		
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-		
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-		
Chironomidae	6	1	3(2)	3	-	-	-	-	1	1	-	-		
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-		
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-		
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-		
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-		
Arachnida														
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-		
Mollusca														
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-		
Limnaea pereger	26	4	364	29	60	15	16	18	3	3	17	11		
Physa fontinalis	-	1	8	3	5	6	4	4	2	-	-	-		
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-		
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-		
Pisidium sp.	1	-	1	-	1	4	1	11	2	2	2	-		
Number of animals	91	14	557	155	144	94	142	146	84	134	255	221		
Number of species	6	6	7	5	5	5	5	6	7	5	5	6		
Trent Biotic Index	4	4	4	3	3	3	3	4	4	3	4	4		
Chandler Score	136	153	129	110	112	84	106	132	171	112	102	111		
Diversity Index	1.85	2.26	1.16	1.01	1.41	1.88	1.28	1.84	1.61	1.27	1.08	1.91		
Physical and chemical data														
Temperature °C	16	16	15	11	12	6	6	6	7	10	11	13.		
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	8.		
pH	-	-	-	-	-	-	-	-	-	-	-	6		
Width in metres	6.0	6.0	5.5- 6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0		
Depth in cms	12-25	7-25	15-30	15-25	15-30	35	15-30	25-40	25-30	7-25	7-25	7-30		
Current, m/sec	0.9	0.9	0.6	0.9	0.6	0.6	0.6	0.6	0.9	0.5	0.6	0.6		
Colour	cls.	cls.	cls.	cls.	cls.	gr.	cls.	gr.	gr.	cls.	cls.	cls.		
Clarity	cl.	cl.	cl.	cl.	cl.	t.	cl.	t.	t.	cl.	cl.	cl.		
% Weed cover	75	90	90	95	95	-	75	-	-	25	50	50		
Weed types	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.		
		Cl.								St.	St.	St.		

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station 9 RIVER STOUR

TABLE 54

Year 1972 - 1973

<u>Month</u>	7	8	9	10	11	12	1	2	3	4	5	6
Platyhelminthes												
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta												
Tubificidae	4	9	-	8	10	-	2	21	9	11	8	18
Enchytraeidae	34	1	13	26	1	12	11	28	80	114	8	13
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-
Naididae	-	-	-	-	-	-	-	-	-	-	-	-
Hirudinea												
Erpobdellidae	2(2)	-	-	-	-	-	2	-	1	2	-	-
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-
Crustacea												
Asellus aquaticus	82	41	165	137	111	9	12	99	14	19	39	7
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-
Insecta												
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csl	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-
Chironomidae	23	5	7	-	-	-	-	-	-	-	-	-
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-
Arachnida												
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-
Limnaea pereger	28	41	411	363	103	10	6	23	10	11	36	4
Physa fontinalis	-	-	10	18	14	1	4	3	-	-	-	-
Ancylidae sp.	-	-	-	-	1	-	-	-	-	-	-	-
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	10	1	-	15	9	1	5	1	5	3	-	6
Number of animals	183	98	606	567	249	33	42	175	119	160	91	48
Number of species	8	6	5	6	7	5	7	6	6	6	4	5
Trent Biotic Index	4	4	3	4	4	3	4	4	4	4	3	3
Chandler Score	155	142	97	112	193	126	164	126	128	116	81	107
Diversity Index	2.19	1.72	1.18	1.49	1.70	1.87	2.53	1.78	1.58	1.43	1.67	2.1
Physical and chemical data												
Temperature °C	13.5	13	12	10	11	6	10	7.5	6.5	9.5	9.5	14
D.O., mg/l	5.0	9.2	7.7	10.2	9.7	10.5	9.3	8.1	8.2	8.5	9.7	9.4
pH	7.2	7.4	7.6	7.3	7.5	7.6	7.5	7.3	7.5	7.4	7.4	7.1
Width in metres	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.5
Depth in cms	15-25	7-25	15-30	15-30	15-30	25-40	15-25	7-30	7-30	7-30	15-30	7-30
Current, m/sec	0.9	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.6	0.6	0.4	0.4
Colour	cls.	cls.	cls.	cls.	cls.	br.	cls.	cls.	gr.	gr.	gr.	br
Clarity	cl.	cl.	cl.	cl.	cl.	t.	cl.	cl.	tr.	tr.	tr.	t.
% Weed cover	75	90	90	90	95	-	75	75	25	10	25	-
Weed types	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.
	St.		Cl.	Cl.							St.	St.

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	10	RIVER STOUR						TABLE 55					
Year	1971 - 1972												
Month	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	
Oligochaeta													
Tubificidae	11	63	14	9	49	40	9	54	-	33	7	117	
Enchytraeidae	26	-	176	69	-	63	-	-	-	198	78	224	
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-	
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	
Hirudinea													
Erpobdellidae	-	1	-	-	-	1	-	3	-	-	1	-	
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-	
Crustacea													
Asellus aquaticus	27	95	60	159	170	28	61	28	-	47	55	58	
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-	
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csc	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	
Chironomidae	21	26	61	3	2	-	1	-	-	3	2	-	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-	
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-	
Limnaea pereger	26	41	86	159	81	85	146	14	-	9	10	20	
Physa fontinalis	-	4	2	9	2	2	12	5	-	-	-	1	
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	-	-	-	-	-	1	-	-	-	-	-	2	
Number of animals	111	230	399	408	304	220	229	104	-	290	153	422	
Number of species	5	6	6	6	5	7	5	5	-	5	6	6	
Trent Biotic Index	3	4	4	4	3	4	3	3	-	3	4	4	
Chandler Score	93	124	105	111	103	149	103	103	-	92	124	116	
Diversity Index	2.26	1.97	2.03	1.78	1.49	2.00	1.36	1.74	-	1.38	1.61	1.6	
Physical and chemical data													
Temperature °C	16	17	16	13	14	8	8	7	-	10	12	13.	
D.O.,mg/l	-	-	-	-	-	-	-	-	-	-	-	8.	
pH	-	-	-	-	-	-	-	-	-	-	-	6	
Width in metres	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	-	4.5	4.5	4.	
Depth in cms	15-30	15-30	15-30	15-30	15-25	40	15-30	45	-	15-40	15-30	15-30	
Current, m/sec	1-1.2	0.5-1.0	0.9	0.6-0.9	1-1.2	1-1.2	1-1.2	1 - 1.2	- 1.2	1-1.2	1-1.2	1-1.	
Colour	cls.	cls.	cls.	cls.	cls.	gr.	cls.	gr.	-	cls.	cls.	cls.	
Clarity	cl.	cl.	cl.	cl.	cl.	t.	cl.	tr.	-	cl.	cl.	cl.	
% Weed cover	75	50	50	50	50	-	5	-	-	25	75	50	
Weed types	P.p. St.	P.p. St.	P.p.	P.p.	P.p.	P.p.	P.p.	-	-	St. P.p.	St. P.p.	P.p. St.	

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Station 10	RIVER STOUR						TABLE 56					
Year	1972 - 1973											
Month	7	8	9	10	11	12	1	2	3	4	5	6
Platyhelminthes												
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta												
Tubificidae	11	12	51	17	9	40	19	29	25	6	7	1
Enchytraeidae	120	15	219	46	25	7	56	84	266	166	75	13
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-
Naididae	-	-	-	-	-	-	-	-	-	-	-	-
Hirudinea												
Erpobdellidae	-	2	-	-	-	3	-	-	1	2	-	-
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-
Crustacea												
Asellus aquaticus	78	110	244	174	138	41	99	54	37	98	108	37
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-
Insecta												
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csl	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-
Chironomidae	6	13	43	3	-	-	1	2	8	19	1	-
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-
Arachnida												
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-
Limnaea pereger	21	19	230	211	80	8	3	12	15	66	15	12
Physa fontinalis	-	1	14	12	7	-	-	-	-	1	1	-
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	-	-	6	-	-	-	-	-	1	-	-	2
Number of animals	236	172	807	463	259	99	178	181	353	358	207	65
Number of species	5	7	7	6	5	5	5	5	7	7	6	5
Trent Biotic Index	3	4	4	4	3	3	3	3	4	4	4	3
Chandler Score	93	144	122	107	94	112	95	94	143	137	123	111
Diversity Index	1.67	1.73	2.18	1.73	1.64	1.77	1.48	1.78	1.28	1.86	1.53	1.62
Physical and chemical data												
Temperature °C	14	14	15.5	12.5	12	10.5	11	7.5	7.5	9.5	10	14.5
D.O., mg/l	8.9	7.8	8.8	9.1	9.5	8.3	8.6	7.9	8.1	8.7	9.5	7.7
pH	7.3	7.4	7.3	7.2	7.4	7.5	7.5	7.3	7.4	7.3	7.4	7.1
Width in metres	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Depth in cms	15-30	15-30	15-25	15-30	15-30	30-40	15-40	15-40	40	15-40	25-40	30
Current, m/sec	1.1-2.0	0.5-0.9	0.7	0.5-0.9	0.6	1.2	0.9	0.9	1.0	0.9	0.9	0.9
Colour	cls.	cls.	cls.	cls.	cls.	gr.	gr.	gr.	gr.	gr.	gr.	br.
Clarity	cl.	cl.	cl.	cl.	cl.	t.	t.	t.	t.	tr.	t.	t.
% Weed cover	50	75	75	75	50	-	-	-	-	-	-	-
Weed types	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.
	St.	Cl.	Cl.					St.	St.	St.	St.	St.

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Station 11	RIVER STOUR						TABLE 57					
Year	1967 - 1968											
Month	7	8	9	10	11	12	1	2	3	4	5	6
Platyhelminthes												
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta												
Tubificidae	-	179	164	163	-	86	19	20	56	53	37	44
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-
Naididae	-	-	-	-	-	-	-	-	-	-	-	-
Mirudinea												
Erpobdellidae	-	-	1	2	-	9	8	9	3	7	4	8
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-
Crustacea												
Asellus aquaticus	-	21	34	76	-	13	62	32	36	30	75	69
Gammarus pulex	-	7	18	8	-	2	1	-	-	-	3	-
Insecta												
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-
Baetis rhodani	-	-	1	-	-	-	-	-	-	-	-	-
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csl	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-
Chironomidae	-	86(2)	72(2)	3	-	2	3	7	12	41	-	-
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-
Arachnida												
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-
Limnaea pereger	-	4	11	16	-	9	2	4	12	3	10	19
Physa fontinalis	-	-	-	2	-	-	-	1	2	-	-	1
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	-	-	-	-	-	-	-	-	-	-	-	-
Number of animals	-	297	301	270	-	121	95	73	121	134	129	141
Number of species	-	6	8	7	-	6	6	6	6	5	5	5
Trent Biotic Index	-	5	5	5	-	5	5	4	4	3	4	3
Chandler Score	-	113	178	167	-	146	140	134	126	99	123	110
Diversity Index	-	1.44	1.79	1.52	-	1.44	1.51	2.04	1.92	1.88	1.53	1.70
Physical and chemical data												
Temperature °C	-	7	14	10	-	4	2	2	4	4	8	12
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	-
pH	-	-	-	-	-	-	-	-	-	-	-	-
Width in metres	-	6.0	6.0	4.5	-	6.0	4.5- 5.5	5.5	6.0	5.5	5.5	4.5
Depth in cms	-	7-30	7-30	15-30	-	7-30	15-30	25-35	7-30	15-35	15-30	15-30
Current, m/sec	-	0.3	0.3	0.6	-	0.4	0.3	0.3	0.3	0.3	0.4	0.6
Colour	-	br.	br.	br.	-	gr.	gr.	br.	br.	br.	br.	gr.
Clarity	-	t.	t	t	-	t	t	t	t	t	t	tr
% Weed cover	-	-	-	-	-	-	-	-	-	-	-	75
Weed types	-	P.p	P.p	P.p	-	P.p	P.p	-	-	-	P.p	St.
											St.	P.p

Figures in brackets denote numbers of species
Key to abbreviations on page 1

Station	11	RIVER STOUR						TABLE 58					
Year		1968 - 1969											
Month	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	
Oligochaeta													
Tubificidae	2	10	10	7	4	23	-	2	106	72	-	10	
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-	
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-	
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	
Hirudinea													
Erpobdellidae	1	1	-	-	-	4	-	8	6	-	6	-	
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-	
Crustacea													
Asellus aquaticus	42	21	200	264	637	488	-	882	378	98	238	172	
Gammarus pulex	-	-	-	1	-	-	-	-	-	-	-	3	
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	
Baetis rhodani	-	-	1	-	-	-	-	-	-	-	-	-	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csl	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	
Chironomidae	17	47	18	-	3	1	-	-	4	2	-	-	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-	
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-	
Limnaea pereger	9	10	70	35	21	14	-	36	46	6	30	1	
Physa fontinalis	-	-	24	14	11	26	-	22	14	10	-	-	
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	-	-	-	-	1	-	-	-	-	-	-	-	
Number of animals	71	89	323	321	677	556	-	950	554	188	274	186	
Number of species	5	5	6	5	6	6	-	5	6	5	3	4	
Trent Biotic Index	3	3	5	4	4	4	-	3	4	3	3	4	
Chandler Score	113	109	140	118	133	121	-	102	114	110	63	98	
Diversity Index	1.55	1.76	1.59	0.92	0.42	0.76	-	0.48	1.38	1.47	0.64	0.46	
Physical and chemical data													
Temperature °C	14	15	15	13	9	10	-	8	6	9	12	12	
D.O.,mg/l	-	-	-	-	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	-	-	-	-	
Width in metres	5.5	5.5-6.0	6.0	6.0	6.0	6.0	-	5.5	6.0	6.0	6.0	6.0	
Depth in cms	25-30	15-30	15-30	15-30	15-30	15-30	-	25-30	25-30	25-30	25-30	15-30	
Current, m/sec	0.3	0.6	0.6	0.6	0.9	0.6	-	0.6	0.6	0.6	0.6	0.9	
Colour	gr.	gr.	gr.	gr.	gr.	gr.	-	br.	br.	gr.	gr.	gr.	
Clarity	tr.	tr.	tr.	t.	t.	t.	-	t.	t.	t.	t.	t.	
% Weed cover	50	50	75	-	-	-	-	-	-	-	-	-	
Weed types	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	-	P.p.	-	-	St. P.p.	P.p.	

P.p.

Figures in brackets denote numbers of species
Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	11	RIVER STOUR											TABLE 59
Year	1969 - 1970												
Month	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	
Oligochaeta													
Tubificidae	18	6	-	24	20	4	12	6	10	10	6	36	
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-	
Lumbricidae	-	1	-	-	-	-	-	-	-	-	-	-	
Naididae	-	-	-	-	-	-	-	-	-	-	-	36	
Hirudinea													
Erpobdellidae	-	1	1	4	4	-	-	-	2	-	1	6	
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-	
Crustacea													
Asellus aquaticus	90	366	296	252	116	126	224	226	208	96	116	62	
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	1	-	
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csd	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	
Chironomidae	4	6	38	14	-	-	-	-	-	22	34	90	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-	
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-	
Limnaea pereger	24	98	142	92	54	30	20	34	38	32	20	42	
Physa fontinalis	-	-	10	6	6	14	2	2	-	-	-	-	
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	-	-	-	-	2	-	-	-	-	-	-	1	
Number of animals	136	478	487	392	202	174	258	268	258	162	179	273	
Number of species	4	6	5	6	6	4	4	4	4	5	7	7	
Trent Biotic Index	3	4	3	4	4	3	3	3	3	3	5	4	
Chandler Score	77	124	101	122	123	78	78	83	77	108	168	130	
Diversity Index	1.37	0.95	1.37	1.47	1.62	1.19	0.72	0.76	0.89	1.62	1.50	2.35	
Physical and chemical data													
Temperature °C	17	17	15	13	11	6	6	6	6	8	14	16	
D.O.,mg/l	-	-	-	-	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	-	-	-	-	
Width in metres	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.5-	6.0	
Depth in cms	15-30	15-30	15-30	15-30	25-30	7-30	15-30	15-30	15-30	15-30	15-30	6.0	
Current, m/sec	0.9	0.9	0.9	0.9	1.0	0.9	0.9	0.9	1.2	0.9	0.9	0.9	
Colour	cls.	gr.	gr.	gr.	br.	gr.	gr.	br.	gr.	gr.	gr.	gr.	
Clarity	cl.	t.	t.	t.	t.	t.	t.	t.	t.	t.	tr.	tr.	
% Weed cover	50	-	-	-	-	-	-	-	-	-	-	-	
Weed types	P.p. St.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	St. P.p.	St. P.p.	P.p. St.	

Figures in brackets denote numbers of species
Key to abbreviations on page 1.

Station	11	RIVER STOUR						TABLE 60					
Year		1970 - 1971											
Month	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta													
Tubificidae	8	38	25	40	54	36	78	24	93	52	164	50	
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	114	324	
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-	
Naididae	16	-	-	-	-	-	-	-	-	-	-	-	
Mirudinea													
Erpobdellidae	4	-	-	1	-	-	-	-	-	1	-	-	
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-	
Crustacea													
Asellus aquaticus	230	168	183	210	168	6	12	1	9	8	6	32	
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	6	
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csd	-	-	-	-	-	-	-	-	-	-	1	-	
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	
Chironomidae	128(3)	70	38	18	-	14	1	2	3	34	2	138(2)	
C. riparius	-	-	-	-	-	10	-	1	-	-	-	14	
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-	
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-	
Limnaea pereger	48	20	11	38	4	2	1	-	3	8	4	1	
Physa fontinalis	30	100	9	34	2	-	-	-	-	-	-	-	
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	-	2	-	-	-	-	-	-	2	-	-	1	
Number of animals	464	398	266	341	228	68	92	28	110	103	291	566	
Number of species	9	6	5	6	4	5	4	4	5	5	6	9	
Trent Biotic Index	4	4	3	4	3	3	3	3	3	3	5	5	
Chandler Score	123	114	97	118	80	103	88	87	117	107	170	166	
Diversity Index	1.93	2.04	1.44	1.72	0.97	1.82	0.72	0.80	0.88	1.66	1.27	1.73	
Physical and chemical data													
Temperature °C	14	18	16	12	12	10	2	6	6	9	14	13	
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	-	-	-	-	
Width in metres	6.0	6.0	5.5-	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	
Depth in cms	15-30	15-30	6.0 7-30	7-30	7-30	25-40	7-30	15-30	15-30	7-30	7-30	15-30	
Current, m/sec	0.9	1.2	0.9	0.9	0.9	0.9	0.9	0.9	0.6	0.6	0.6	0.9	
Colour	cls.	gr.	gr.	gr.	cls.	br.	gr.	gr.	br.	cls.	gr.	gr.	
Clarity	cl.	tr.	tr.	tr.	cl.	t.	tr.	tr.	t.	cl.	t.	t.	
% Weed cover	50	50	75	50	50	-	25	-	-	50	-	-	
Weed types	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.	
	St.	Cl.					St.		St.	St.		St.	

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Station	11	RIVER STOUR						TABLE 61					
Year	1971 - 1972												
Month	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	
Oligochaeta													
Tubificidae	7	56	62	48	78	100	34	96	326	-	25	16	
Enchytraeidae	65	-	234	92	37	49	-	-	-	59	44	344	
Lumbricidae	-	-	-	-	-	2	-	-	-	-	-	-	
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	
Hirudinea													
Erpobdellidae	1	-	-	-	-	-	-	1	-	1	-	1	
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-	
Crustacea													
Asellus aquaticus	33	88	292	348	246	238	115	77	252	64	188	240	
Gammarus pulex	-	1	4	-	1	4	3	-	4	2	2	1	
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	
Baetis rhodani	-	-	1	-	-	-	-	-	-	-	-	-	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csd	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	
Chironomidae	129	22	80	20(2)	6	6	2	3	14	10	4	-	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-	
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-	
Limnaea pereger	10	34	86	48	26	29	12	12	14	20	11	42	
Physa fontinalis	-	-	24	22	4	11	6	1	-	-	-	1	
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	-	-	4	-	2	1	-	-	-	-	-	-	
Number of animals	245	201	787	578	400	440	172	190	610	156	274	645	
Number of species	6	5	9	7	8	9	6	6	5	6	6	7	
Trent Biotic Index	4	4	5	4	5	5	5	4	4	5	5	5	
Chandler Score	115	112	207	106	186	208	144	130	105	140	129	150	
Diversity Index	1.75	1.85	2.26	1.80	1.68	1.91	1.46	1.45	1.30	1.81	1.43	1.44	
Physical and chemical data													
Temperature °C	16	17	16	13	14	8	8	7	7	10	12	13.5	
D.O.,mg/l	-	-	-	-	-	-	-	-	-	-	-	7.4	
pH	-	-	-	-	-	-	-	-	-	-	-	6	
Width in metres	4.5- 6.0	6.0- 6.5	5.5- 6.0	6.0	6.0	5.5- 6.0	6.0	6.0	6.0	6.0	6.0	6.0	
Depth in cms	7-30	7-30	7-30	7-30	7-30	15-30	7-25	25-40	40	15-30	7-30	7-30	
Current, m/sec	0.9	0.9	0.9	0.9	0.6	0.9	0.9	0.9	0.6	0.6	0.9	0.9	
Colour	cls.	cls.	cls.	cls.	gr.	gr.	gr.	gr.	br.	gr.	gr.	br.	
Clarity	cl.	cl.	cl.	cl.	tr.	t.	t.	t.	t.	tr.	t.	t.	
% Weed cover	50	50	50	50	50	-	-	-	-	25	-	-	
Weed types	P.p.	P.p. Cl.	P.p.	P.p. Cl.	P.p.	P.p.	P.p.	P.p. St.	-	St. P.p.	St. P.p.	P.p. St.	

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Year 1972 - 1973

Month 7 8 9 10 11 12 1 2 3 4 5 6

Platyhelminthes

Turbellaria

Oligochaeta

Tubificidae

Enchytraeidae

Lumbricidae

Naididae

Hirudinea

Erpobdellidae

Glossiphoniidae

Crustacea

Asellus aquaticus

Gammarus pulex

Insecta

Ephemeroptera

Baetis rhodani

Sialis spp.

Plecoptera

Trichoptera - csl

Trichoptera - csls

Coleoptera larvae

Coleoptera adults

Chironomidae

C. riparius

Simuliidae

Tipulidae

Other Diptera

Arachnida

Hydracarina

Mollusca

P. jenkinsi

Limnaea pereger

Physa fontinalis

Ancylidae sp.

Sphaerium sp.

Pisidium sp.

Number of animals	469	573	776	520	834	486	424	414	327	393	392	279
Number of species	10	9	10	8	10	10	10	8	6	8	7	12

Trent Biotic Index	5	5	5	5	5	5	5	4	4	5	5	6
Chandler Score	250	268	207	177	196	232	250	169	116	169	167	314
Diversity Index	1.65	1.23	1.68	1.49	1.53	1.39	1.76	1.49	1.75	1.60	0.92	1.64

Physical and chemical data

Temperature °C

D.O., mg/l

pH

Width in metres

Depth in cms

Current, m/sec

Colour

Clarity

% Weed cover

Weed types

P.p.	P.p.	Cl.	P.p.	P.p.	-	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.
St.	Cl.	P.p.	Cl.	P.p.	-	P.p.	P.p.	P.p.	P.p.	P.p.	P.p.

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Station	12	RIVER STOUR											TABLE 63			
Year	1967 - 1968															
Month	7	8	9	10	11	12	1	2	3	4	5	6				
Platyhelminthes																
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-				
Oligochaeta																
Tubificidae	184	146	347	87	65	75	28	141	80	154	57	22				
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-				
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-				
Naididae	-	-	-	-	-	-	-	-	-	-	-	-				
Hirudinea																
Erpobdellidae	1	-	2	-	-	-	-	1	-	1	-	1				
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-				
Crustacea																
Asellus aquaticus	1	1	1	7	5	2	1	6	-	-	3	4				
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-				
Insecta																
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-				
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-				
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-				
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-				
Trichoptera - csd	-	-	-	-	-	-	-	-	-	-	-	-				
Trichoptera - csis	-	-	-	-	-	-	-	-	-	-	-	-				
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-				
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-				
Chironomidae	-	3	77	7	-	2	1	2	4	29	6	7				
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-				
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-				
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-				
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-				
Arachnida																
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-				
Mollusca																
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-				
Limnaea pereger	-	-	1	2	3	3	-	-	-	-	-	-				
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-				
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-				
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-				
Pisidium sp.	-	-	-	-	-	-	-	-	-	-	-	-				
Number of animals	186	150	428	103	73	82	30	150	84	184	66	34				
Number of species	3	3	5	4	3	4	3	4	2	3	3	4				
Trent Biotic Index	3	3	3	3	3	3	3	3	2	2	3	3				
Chandler Score	58	59	106	89	62	93	69	83	33	54	59	84				
Diversity Index	0.09	0.19	0.76	0.84	0.44	0.55	0.42	0.40	0.27	0.67	0.70	1.38				
Physical and chemical data																
Temperature °C	7	7	14	10	8	4	2	2	4	4	8	12				
D.O.,mg/l	-	-	-	-	-	-	-	-	-	-	-	-				
pH	-	-	-	-	-	-	-	-	-	-	-	-				
Width in metres	6.0-7.5	7.5	7.5	7.5	7.5-9.0	7.5	7.5-9.0	7.5	7.5-9.0	7.5	7.5	7.5				
Depth in cms	7-15	7-15	7-15	7-15	15-25	7-15	15	7-15	7.5	7-15	15	7-15				
Current, m/sec	0.3	0.3	0.3	0.6	0.9	0.6	0.6	0.3	0.6	0.4	0.6	0.6				
Colour	gr.	br.	br.	br.	br.	gr.	br.	br.	br.	br.	gr.	gr.				
Clarity	t.	t.	t.	t.	t.	t.	t.	t.	t.	t.	t.	t.				
% Weed cover	-	-	-	-	-	-	-	-	-	-	-	-				
Weed types	St.	St.	-	-	-	St.	-	-	-	St.	St.	St.				

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	12	RIVER STOUR										
Year	1968 - 1969											
Month	7	8	9	10	11	12	1	2	3	4	5	6
Platyhelminthes												
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta												
Tubificidae	38	95	94	54	42	28	58	60	53	30	12	34
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-
Naididae	-	-	-	-	-	-	-	-	-	-	-	-
Hirudinea												
Erpobdellidae	-	-	1	2	-	-	2	-	-	-	-	-
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-
Crustacea												
Asellus aquaticus	6	13	36	76	102	60	108	110	4	1	33	2
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-
Insecta												
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csd	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-
Chironomidae	30	2	17	3	-	-	-	-	-	-	-	-
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-
Arachnida												
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-
Limnaea pereger	-	-	17	12	11	11	10	6	3	1	2	-
Physa fontinalis	-	-	-	-	-	-	-	2	-	-	-	-
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	-	-	-	-	-	-	-	-	-	-	-	-
Number of animals	74	110	165	147	155	99	178	178	60	32	47	36
Number of species	3	3	5	5	3	3	4	4	3	3	3	2
Trent Biotic Index	3	3	3	3	3	3	3	3	3	3	3	3
Chandler Score	56	58	100	100	48	52	74	80	65	68	61	38
Diversity Index	1.31	0.65	1.66	1.51	1.17	1.30	1.27	1.19	0.63	0.39	1.05	0.30
Physical and chemical data												
Temperature °C	14	15	15	13	8	9	5	8	6	8	11	12
D.O.,mg/l	-	-	-	-	-	-	-	-	-	-	-	-
pH	-	-	-	-	-	-	-	-	-	-	-	-
Width in metres	7.5-9.0	7.5-9.0	7.5	9.0	7.5-9.0	7.5-9.0	9.0	7.5	7.5	7.5-9.0	7.5-10.5	7.5-9.0
Depth in cms	7-15	7-25	7-15	7-15	15	15	30-40	15	7-15	-	15	15-25
Current, m/sec	0.6	0.6	0.6	0.6	0.9	0.9	0.9	0.9	0.6	0.6	0.9	0.7
Colour	br.	gr.	gr.	gr.	gr.	gr.	br.	br.	br.	br.	br.	gr.
Clarity	t	t	t	t	t	t	t	t	t	t	t	t
% Weed cover	-	-	-	-	-	-	-	-	-	-	-	-
Weed types	-	-	-	St.	-	-	-	-	-	-	-	-

Figures in brackets denote numbers of species
Key to abbreviations on page 1.

Station	12 RIVER STOUR												TABLE 65
Year	1969 - 1970												
Month	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta													
Tubificidae	41	31	41	8	6	26	14	26	95	8	33	3	
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-	-
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-	-
Naididae	-	-	-	-	-	-	-	-	-	-	16	14	
Mirudinea													
Erpobdellidae	-	-	2	-	1	-	-	-	-	-	-	1	
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-	-
Crustacea													
Asellus aquaticus	35	100	113	151	85	146	167	72	94	110	88	64	
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-	-
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	-
Ectotis rhodani	-	-	-	-	-	-	-	-	-	-	-	-	-
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csl	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	-
Chironomidae	4	15	15	-	-	2	2	-	1	14	8	127(2	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	-
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	-
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca													
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-	-
Limnaea pereger	2	3	14	16	11	11	13	8	16	2	5	6	
Physa fontinalis	-	-	-	1	1	2	1	-	2	-	-	-	-
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of animals													
Number of species	82	149	185	176	104	187	197	106	208	134	150	215	
	4	4	5	4	5	5	5	3	5	4	5	7	
Trent Biotic Index													
Chandler Score	3	3	3	3	3	3	3	3	3	3	3	4	
Diversity Index	86	76	93	83	111	106	106	55	109	79	90	109	
	1.36	1.30	1.56	0.74	0.94	1.05	0.83	1.15	1.42	0.90	1.66	1.4	
Physical and chemical data													
Temperature °C	17	17	15	11	11	6	4	7	6	8	14	16	
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-
pH	-	-	-	-	-	-	-	-	-	-	-	-	-
Width in metres	7.5-9.0	7.5-9.0	7.5-9.0	7.5-9.0	7.5-9.0	7.5-9.0	7.5	7.5-9.0	9.0	7.5-9.0	7.5-9.0	7.5-9.0	
Depth in cms	7-15	7-15	15	7-15	7-15	7.5	7.5	25-40	7-25	15-25	7-15	7-15	
Current, m/sec	0.9	0.9	0.9	0.9	1.2	0.9	0.9	1.8	1.2	1.2	0.9	0.9	
Colour	br.	gr.	br.	br.	br.	gr.	gr.	br.	gr.	gr.	gr.	gr.	
Clarity	t.	t.	t.	t.	t.	t.	t.	t.	t.	t.	t.	t.	
% Weed cover	-	-	-	-	-	-	-	-	-	-	-	-	-
Weed types	St.	-	-	-	-	-	St.	-	St.	St.	St.	St.	S

Figures in brackets denote numbers of species
Key to abbreviations on page 1.

Station	12	RIVER STOUR						TABLE 66					
Year	1970 - 1971												
Month	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	
Oligochaeta													
Tubificidae	12	7	45	45	13	29	30	35	74	16	88	22	
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	16	86	
Lumbricidae	1	-	-	-	-	-	-	-	-	-	-	-	
Naididae	33	-	-	-	-	-	-	-	-	-	-	-	
Hirudinea													
Erpobdellidae	4	-	1	2	-	1	-	-	1	-	-	4	
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-	
Crustacea													
Asellus aquaticus	144	108	144	99	156	56	17	20	22	11	3	39	
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-	
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csd	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csis	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	
Chironomidae	41(2)	10	17	7	-	-	3	1	5	24	-	140	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	-	-	-	-	-	-	1	-	-	-	-	
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-	
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-	
Limnaea pereger	5	3	10	8	10	17	3	5	5	-	1	3	
Physa fontinalis	-	2	3	-	1	3	-	-	-	-	-	-	
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Number of animals	240	130	220	161	180	106	33	62	107	51	108	294	
Number of species	8	5	6	5	4	5	4	5	5	3	4	6	
Trent Biotic Index	4	3	4	3	3	3	3	3	3	3	3	4	
Chandler Score	132	111	124	104	81	104	89	143	107	52	80	106	
Diversity Index	1.73	0.95	1.47	1.43	0.72	1.63	1.64	1.47	1.31	1.51	.85	1.84	
Physical and chemical data													
Temperature °C	14	18	16	12	12	9	1	5	6	9	14	13	
D.O.,mg/l	-	-	-	-	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	-	-	-	-	
Width in metres	7.5-9.0	7.5-9.0	7.5-9.0	6.0-9.0	7.5-9.0	7.5-9.0	7.5-9.0	7.5-9.0	7.5-9.0	7.5-9.0	7.5-9.0	7.5-9.0	
Depth in cms	7-15	7-15	7-15	7-15	7-25	25-30	7-15	15-30	15-25	15-30	15-25	15-25	
Current, m/sec	0.6	0.9	0.6	0.6	0.9	1.2	0.9	1.2	0.9	0.6	0.6	1.5-2.5	
Colour	gr.	gr.	gr.	gr.	gr.	br.	gr.	gr.	br.	gr.	gr.	gr.	
Clarity	t.	tr.	tr.	t.	t.	t.	tr.	t.	t.	t.	t.	t.	
% Weed cover	-	5	25	-	-	-	50	-	-	-	-	-	
Weed types	St.	P.p St.	St.	-	-	-	St.	St.	St.	St.	-	St.	

Figures in brackets denote numbers of species
Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	12	RIVER STOUR						TABLE 67					
Year	1971 - 1972												
Month	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	
Oligochaeta													
Tubificidae	-	4	25	1	25	34	21	50	30	46	23	4	
Enchytraeidae	4	-	22	2	7	11	-	-	-	-	26	150	
Lumbricidae	-	-	-	-	-	-	-	-	-	2	-	-	
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	
Hirudinea													
Erpobdellidae	1	2	4	1	-	-	3	3	2	1	-	-	
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-	
Crustacea													
Asellus aquaticus	20	34	413	171	284	375	274	209	317	166	254	423	
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-	
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csd	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csis	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	
Chironomidae	38	74	137(2)	23(2)	8	1	5	-	1	5	1	11	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-	
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-	
Limnaea pereger	1	3	143	26	68	81	21	12	6	6	12	9	
Physa fontinalis	-	-	6	-	8	3	3	-	-	-	2	-	
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Number of animals	64	117	750	224	400	505	327	274	356	226	318	597	
Number of species	5	5	8	7	6	6	6	4	5	6	6	5	
Trent Biotic Index	3	3	4	4	4	4	4	3	3	4	4	3	
Chandler Score	113	106	120	117	118	117	121	68	103	125	122	85	
Diversity Index	1.40	1.33	1.78	1.12	1.36	1.18	0.93	1.01	0.61	1.15	1.07	1.0	
Physical and chemical data													
Temperature °C	16	17	16	13	14	7	7	6	7	10	11	14	
D.O.,mg/l	-	-	-	-	-	-	-	-	-	-	-	6.6	
pH	-	-	-	-	-	-	-	-	-	-	-	7.1	
Width in metres	7.5-9.0	7.5-9.0	7.5-9.0	7.5-9.0	7.5	7.5-9.0	7.5	7.5-9.0	7.5-9.0	7.5-9.0	7.5-9.0	7.5-9.0	
Depth in cms	7-25	7-25	7-25	7-25	7-15	7-25	7-25	15-25	15-25	7-25	7-25	7-25	
Current, m/sec	0.9	0.4	0.6	0.9	0.9	0.9	0.6	0.9	0.9	0.6	0.6	0.9	
Colour	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	br.	gr.	gr.	gr.	
Clarity	t.	t.	t.	t.	t.	t.	t.	t.	t.	t.	t.	t.	
% Weed cover	-	-	10	-	-	-	-	-	-	-	-	-	
Weed types	-	-	Cl.	Cl.	-	-	-	St.	-	St.	St.	St.	

Figures in brackets denote numbers of species
Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	12 RIVER STOUR						TABLE 68					
Year	1972 - 1973											
Month	7	8	9	10	11	12	1	2	3	4	5	6
Platyhelminthes												
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta												
Tubificidae	8	12	7	8	23	17	22	17	1	4	12	2
Enchytraeidae	136	253	93	202	114	26	287	59	119	404	23	37
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-
Naididae	-	-	-	-	-	-	-	-	-	-	-	-
Hirudinea												
Erpobdellidae	3	-	3	2	1	1	1	1	-	2	4	4
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-
Crustacea												
Asellus aquaticus	443	417	997	591	364	169	267	201	239	229	461	67
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-
Insecta												
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csd	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csis	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-
Chironomidae	47	14	30	20	2	-	1	8	9	21	1	4
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-
Tipulidae	-	1	-	-	-	-	-	-	-	-	-	-
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-
Arachnida												
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
P. jenkinsi	-	-	-	2	-	-	-	-	-	-	-	-
Limnaea pereger	12	18	30	18	11	1	-	-	1	-	-	4
Physa fontinalis	-	1	5	-	2	-	-	-	-	-	-	-
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	-	-	-	-	-	-	-	-	-	-	-	-
Number of animals	649	716	1165	843	517	214	578	286	369	660	501	118
Number of species	6	7	7	7	7	5	5	5	5	5	5	6
Trent Biotic Index	4	4	4	4	4	3	3	3	3	3	3	4
Chandler Score	102	167	134	136	138	93	83	84	95	81	87	125
Diversity Index	1.34	1.35	0.85	1.20	1.23	1.00	1.22	1.24	1.10	1.19	0.51	1.58
Physical and chemical data												
Temperature °C	14	14	15	11.5	12	10	11	8	7	10	10	16
D.O., mg/l	5.9	7.8	7.1	7.9	7.4	8.0	8.4	8.8	8.0	8.1	8.3	6.6
pH	7.5	7.2	7.2	7.2	7.5	7.5	7.5	7.3	7.4	7.3	7.4	7.3
Width in metres	7.5	7.5- 9.0	7.5	7.5	7.5	7.5	7.5- 9.0	7.5- 9.0	7.5	7.5	7.5	6.0- 7.5
Depth in cms	7-15	7-15	7-15	7-25	7-15	15-30	15-25	7-15	15	7-15	7-15	7-15
Current, m/sec	0.6	0.6	0.6	0.6	0.6	0.9	0.6	0.6	0.6	0.6	0.6	0.3
Colour	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	br.
Clarity	t.	t.	t.	t.	t.	t.	t.	t.	t.	t.	t.	t.
% Weed cover	-	-	-	-	-	-	-	-	-	-	-	-
Weed types	St.	St.	-	Cl.	Cl.	-	St.	St.	St.	St.	St.	St.

Figures in brackets denote numbers of species
 Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	58	RIVER STOUR										TABLE 69	
Year	1971 - 1972												
Month	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	-	-	-	-	33(2)	34	35	9	8(2)	9	2	8	
Oligochaeta													
Tubificidae	-	-	-	-	71	120	12	66	23	17	44	26	
Enchytraeidae	-	-	-	-	17	-	-	-	-	-	-	48	
Lumbricidae	-	-	-	-	-	-	1	-	-	1	-	-	
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	
Hirudinea													
Eteobdellidae	-	-	-	-	4	5	-	2	1	3	2	-	
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	1	
Crustacea													
Asellus aquaticus	-	-	-	-	1545	1291	1124	2026	810	595	712	2117	
Gammarus pulex	-	-	-	-	-	2	-	2	-	1	1	4	
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csd	-	-	-	-	-	-	-	1	-	-	-	-	
Trichoptera - csfs	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera larvae	-	-	-	-	-	-	2(2)	1	-	-	-	-	
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	
Chironomidae	-	-	-	-	34	62	35	113	21	63	44	19	
C. riparius	-	-	-	-	-	-	-	1	-	-	-	-	
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	
Tipulidae	-	-	-	-	-	-	1	-	-	-	-	-	
Other Diptera	-	-	-	-	-	2	-	-	-	-	-	-	
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-	
Limnaea pereger	-	-	-	-	-	1	1	-	-	1	-	-	
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-	
Ancylidae sp.	-	-	-	-	6	-	-	-	-	1	33	8	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	-	-	-	-	4	10	6	7	3	3	9	1	
Number of animals	-	-	-	-	1714	1527	1217	2228	866	694	847	2232	
Number of species	-	-	-	-	9	9	10	10	7	10	8	9	
Trent Biotic Index	-	-	-	-	4	5	4	5	4	5	5	5	
Chandler Score	-	-	-	-	213	210	269	309	129	267	253	264	
Diversity Index	-	-	-	-	0.69	0.90	0.54	0.58	0.30	0.83	0.95	0.40	
Physical and chemical data													
Temperature °C	-	-	-	-	5	6	6	6	7	10	12	13.	
D.O.,mg/l	-	-	-	-	-	-	-	-	-	-	-	7.3	
pH	-	-	-	-	-	-	-	-	-	-	-	7.2	
Width in metres	-	-	-	-	6.0- 7.5	7.5	6.0 7.5	7.5	7.5	7.5	7.5	7.5	
Depth in cms	-	-	-	-	15-40	15-40	7-35	30-40	45	15-35	7-35	15-3	
Current, m/sec	-	-	-	-	0.6	0.6	0.6	0.6	0.6	0.4	0.6	0.6	
Colour	-	-	-	-	gr.	gr.	gr.	gr.	br.	gr.	gr.	br.	
Clarity	-	-	-	-	t.	t.	t.	t.	t.	t.	t.	t.	
% Weed cover	-	-	-	-	-	-	-	-	-	-	-	-	
Weed types	-	-	-	-	Cl. P.p	Cl.	P.p. Cl.	-	-	-	Cl.	Cl.	

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	58	RIVER STOUR						TABLE 70					
Year	1972 - 1973												
Month	7	8	9	10	11	12	1	2	3	4	5	6	
Platyhelminthes													
Turbellaria	10	14	6	11	8	33(2)	-	2	11	5	1	-	
Oligochaeta													
Tubificidae	5	3	4	-	2	7	7	5	-	-	2	7	
Echytraeidae	30	233	407	503	620	19	234	128	41	210	46	357	
Lumbricidae	-	-	2	-	-	-	-	-	-	-	-	-	
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	
Hirudinea													
Erpobdellidae	1	4	2	-	3	-	2	2(2)	-	-	4	1	
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-	
Crustacea													
Asellus aquaticus	1142	543	474	290	573	935	453	343	300	284	505	341	
Gammarus pulex	2	3	1	2	2	4	2	3	2	-	3	-	
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csd	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	
Chironomidae	32	15	32	8	6	6	5	6	12	34	35	2	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-	
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-	
Limnaea pereger	-	-	1	-	-	-	-	-	1	-	-	-	
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-	
Ancylidae sp.	29	38	48	77	81	16	22	5	45	43	25	10	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	-	-	1	-	4	-	4	1	1	-	2	1	
Number of animals	1251	853	978	891	1299	1020	729	495	413	576	623	719	
Number of species	8	8	11	6	9	8	8	10	8	5	9	7	
Trent Biotic Index	5	5	6	5	5	5	5	5	5	3	5	4	
Chandler Score	244	230	321	203	273	222	235	265	260	154	276	193	
Diversity Index	0.62	1.42	1.55	1.45	1.43	0.62	1.30	1.21	1.38	1.61	1.09	1.21	
Physical and chemical data													
Temperature °C	14	15	15	11.5	11.5	10	10	7	6.5	10	10	17	
D.O., mg/l	6.4	8.5	7.8	9.2	8.1	9.3	8.9	9.1	8.2	8.2	8.3	8.0	
pH	7.3	7.4	7.2	7.5	7.5	7.5	7.5	7.5	7.5	7.4	7.4	7.4	
Width in metres	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	6.0-7.5	7.5	7.5	6.0	
Depth in cms	7-35	7-35	7-30	7-25	15-30	30-45	15-30	15-30	15-40	7-30	7-30	7-25	
Current, m/sec	0.6	0.6	0.6	0.9	0.6	0.6	0.6	0.4	0.6	0.4	0.4	0.4	
Colour	br.	br.	gr.	gr.	gr.	gr.	gr.	gr.	br.	gr.	br.	br.	
Clarity	t.	t.	tr.	t.	t.	t.	t.	t.	t.	t.	t.	t.	
% Weed cover	-	-	50	-	-	-	-	-	-	-	-	-	
Weed types	Cl.	P.p.	Cl.	Cl.	Cl.	-	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	
	P.p.	Cl.	P.p.										

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

<u>Station</u>	59.	<u>RIVER STOUR</u>										<u>TABLE 71</u>
<u>Year</u>		<u>1971 - 1972</u>										
<u>Month</u>	7	8	9	10	11	12	1	2	3	4	5	6
Platyhelminthes												
Turbellaria	-	-	-	-	-	-	1	-	-	-	-	-
Oligochaeta												
Tubificidae	-	-	-	-	49	291	182	409	468	32	35	137
Enchytraeidae	-	-	-	-	419	45	32	-	-	594	231	1019
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-
Naididae	-	-	-	-	-	-	-	-	-	-	-	-
Hirudinea	-	-	-	-	-	-	-	-	-	-	-	-
Erpobdellidae	-	-	-	-	-	-	-	-	-	1	-	-
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-
Crustacea												
Asellus aquaticus	-	-	-	-	91	8	24	169	448	64	21	43
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-
Insecta												
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csd	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - cs/s	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-
Chironomidae	-	-	-	-	61(2)	59	45	48	85	31	9	23
C. riparius	-	-	-	-	52	-	18	10	3	-	-	-
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-
Other Diptera	-	-	-	-	7	-	-	-	-	-	-	-
Arachnida												
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-
Limnaea pereger	-	-	-	-	-	-	-	-	-	-	-	-
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-
Ancylidae sp.	-	-	-	-	-	-	3	-	-	5	2	-
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	-	-	-	-	-	-	-	-	-	-	-	-
Number of animals	-	-	-	-	679	403	305	636	1004	727	298	1222
Number of species	-	-	-	-	7	4	7	4	4	6	5	4
Trent Biotic Index	-	-	-	-	4	3	4	3	3	4	3	3
Chandler Score	-	-	-	-	75	65	186	56	54	155	134	56
Diversity Index	-	-	-	-	1.75	1.21	1.81	1.29	1.35	1.00	1.11	0.8
Physical and chemical data												
Temperature °C	-	-	-	-	6	6	6	6	7	10	13	13.
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	7.
pH	-	-	-	-	-	-	-	-	-	-	-	7.
Width in metres	-	-	-	-	9.0-	9.0-	9.0-	9.0-	9.0-	9.0-	9.0-	9.0
					12.0	12.0	10.5	12.0	12.0	12.0	12.0	12.0
Depth in cms	-	-	-	-	7-25	30-40	7-35	30-45	25-45	15-35	15-35	15-35
Current, m/sec	-	-	-	-	0.9	0.6	0.9	0.6	0.6	0.6	0.9	0.6
Colour	-	-	-	-	gr.	gr.	gr.	gr.	br.	gr.	br.	br.
Clarity	-	-	-	-	t.	t.	t.	t.	t.	t.	t.	t
% Weed cover	-	-	-	-	-	-	-	-	-	-	-	-
Weed types	-	-	-	-	P.p.	P.p.	P.p.	P.p.	-	-	St.	P.
					Cl.						P.p.	St

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	59. RIVER STOUR												TABLE 72			
Year	1972 - 1973															
Month	7	8	9	10	11	12	1	2	3	4	5	6				
Platyhelminthes																
Turbellaria	-	-	2	3	12	6	-	1	1	-	-	-				
Oligochaeta																
Tubificidae	22	22	28	-	7	39	3	15	5	4	13	8				
Enchytraeidae	818	756	870	690	866	504	275	275	517	231	193	398				
Lumbricidae	-	-	1	-	-	-	-	-	-	-	1	-				
Naididae	-	-	-	-	-	-	-	-	-	-	-	-				
Hirudinea																
Erpobdellidae	-	1	1	-	1	2	-	-	-	-	-	-				
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-				
Crustacea																
Asellus aquaticus	204	359	394	146	660	862	347	144	178	332	362	24				
Gammarus pulex	-	-	-	-	3	1	-	-	1	1	1	-				
Insecta																
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-				
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-				
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-				
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-				
Trichoptera - csd	-	-	-	-	-	-	-	-	-	-	-	-				
Trichoptera - csis	-	-	-	-	-	-	-	-	-	-	-	-				
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-				
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-				
Chironomidae	63	28	165(2)	28	20	61	28	29	68	132	25	10				
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-				
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-				
Tipulidae	-	-	-	-	-	-	-	2	-	-	-	-				
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-				
Arachnida																
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-				
Mollusca																
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-				
Limnaea pereger	-	-	1	-	-	-	-	-	-	-	-	-				
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-				
Ancylidae sp.	-	7	29	1	6	25	18	1	35	12	25	4				
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-				
Pisidium sp.	-	-	-	-	-	-	-	-	-	-	1	-				
Number of animals	1107	1173	1491	868	1575	1500	671	467	805	712	621	444				
Number of species	4	6	10	5	8	8	5	7	7	6	8	5				
Trent Biotic Index	3	4	4	3	5	5	3	4	5	5	5	3				
Chandler Score	49	151	242	144	227	228	139	217	211	173	229	144				
Diversity Index	1.12	1.22	1.56	0.89	1.22	1.46	1.38	1.45	1.45	1.64	1.51	0.6				
Physical and chemical data																
Temperature °C	14.5	15	16	12	11.5	10.5	10	7.5	7	10	10.5	17.5				
D.O.,mg/l	5.8	8.7	7.5	7.8	8.9	9.4	7.9	7.5	8.0	8.2	8.9	7.3				
pH	7.5	7.4	7.2	7.5	7.5	7.5	7.4	7.5	7.4	7.2	7.3	7.4				
Width in metres	9.0-12.0	9.0-12.0	9.0-12.0	9.0-10.5	9.0-10.5	10.5-12.0	9.0-10.5	10.5-12.0	10.5-12.0	7.5-9.0	9.0-12.0	7.5-9.0				
Depth in cms	7-25	7-30	7-15	7-25	7-25	30-45	15-30	15-40	15-40	7-30	15-30	7-15				
Current, m/sec	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.4	0.6	0.9				
Colour	gr.	br.	gr.	gr.	gr.	gr.	br.	br.	br.	gr.	br.	br.				
Clarity	t.	tr.	tr.	t.	tr.	t.	t.	t.	t.	t.	t.	t.				
% Weed cover	-	10	50	-	25	-	-	-	-	-	-	-				
Weed types	P.p.	P.p.	Cl.	Cl.	P.p.	-	P.p.	Cl.	Cl.	Cl.	Cl.	P.p.				
		Cl.	P.p.	P.p.	Cl.		Cl.				P.p.	Cl.				

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Station	13	ILLEY BROOK							TABLE 73			
Year	1967			1968				1969			1970	
Month	6	9	12	3	6	9	12	3	6	9	12	3
Platyhelminthes												
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta												
Tubificidae	396	30	-	150	276	41	2	2	-	7	-	5
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-
Naididae	-	-	-	-	-	-	-	-	-	-	-	-
Mirudinea												
Erpobdellidae	-	-	-	-	-	10	3	-	2	-	-	-
Glossiphoniidae	-	-	-	-	-	-	1	1	-	-	-	-
Crustacea												
Asellus aquaticus	-	2	-	1	-	-	-	-	-	-	-	-
Gammarus pulex	8	188	-	140	84	583	409	57	36	150	130	27
Insecta												
Ephemeroptera	2	3(2)	-	47	-	-	9	64	55	7	8	99
Baetis rhodani	72	35	-	77	-	107	18	75	55	297	20	51
Sialis spp.	-	1	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	8(3)	-	1	9	10(2)	-	-	-	9(2)
Trichoptera - csd	-	-	-	4(2)	18(2)	-	2	6	42(2)	-	2	1
Trichoptera - csls	-	-	-	5(2)	1	3(3)	20(2)	9(2)	4(2)	-	44(3)	13(2)
Coleoptera larvae	-	4(2)	-	-	-	-	-	-	-	6(3)	8	3(2)
Coleoptera adults	-	-	-	-	-	1	-	1	1	4(2)	2(2)	-
Chironomidae	1152	1307(3)	-	169(2)	10	111(2)	3	8	13	177(2)	52(2)	39(2)
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	-	146	-	7	-	1	-	-	-	29	-	-
Tipulidae	2	17(2)	-	9(3)	-	17	2	1	1	12(2)	6	5(2)
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-
Arachnida												
Hydracarina	-	-	-	-	-	-	2	-	-	-	-	-
Mollusca												
P. jenkinsi	-	-	-	1	-	2	-	-	-	-	4	-
Limnaea pereger	-	11	-	5	4	13	8	2	1	-	40	2
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-
Ancylidae sp.	-	-	-	-	-	1	1	-	-	-	-	-
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	1	3	-	-	-	2	-	1	-	1	-	-
Number of animals	1633	1747	-	623	392	892	489	237	210	690	316	254
Number of species	7	17	-	20	7	17	15	15	12	13	14	16
Trent Biotic Index	6	9	-	10	6	9	8	9	7	7	7	9
Chandler Score	283	730	-	1052	300	699	737	797	645	601	594	781
Diversity Index	1.11	1.35	-	2.62	1.30	1.73	1.17	2.52	2.63	2.07	2.61	2.63
Physical and chemical data												
Temperature °C	7	13	-	4	12	12	7	2	9	12	4	1
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	-
pH	-	-	-	-	-	-	-	-	-	-	-	-
Width in metres	1.8- 2.4	2.1- 2.4	-	2.1- 2.4	2.1- 2.4	2.1- 2.4	2.4	2.1- 2.4	1.8- 2.4	1.5- 2.1	1.8- 2.1	2.1- 2.4
Depth in cms	5	7.5	-	5	7.5	5	7.5	5	7-15	5	5	7-15
Current, m/sec	0.3	0.3	-	0.3	0.3	0.3	0.6	0.3	0.4	0.3	0.3	0.3
Colour	cls.	br.	-	cls.	cls.	cls.	cls.	cls.	cls.	cls.	cls.	cls.
Clarity	cl.	br.	-	cl.	cl.	cl.	cl.	cl.	cl.	cl.	cl.	cl.
% Weed cover	75	90	-	5	75	90	5	-	25	90	-	-
Weed types	Cl.	Cl.	-	Cl.	Cl.	Cl.	Cl.	-	Cl.	Cl.	-	-

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Station	13 ILLEY BROOK											
Year	1970 - 1973											
Month	1970	9	12	1971	6	9	12	1972	6	9	12	1973
	6			3				3				3
Platyhelminthes												
Turbellaria	-	-	1	-	-	-	-	-	-	1	-	1
Oligochaeta												
Tubificidae	22	1	21	26	14	1	23	26	10	3	-	36
Enchytraeidae	-	-	-	-	-	-	-	-	-	3	7	3
Lumbricidae	-	-	-	-	-	-	-	-	1	-	-	-
Naididae	-	4	-	-	-	-	-	-	-	-	-	-
Hirudinea												
Erpobdellidae	1	1	-	-	-	1	-	-	-	-	1	-
Glossiphoniidae	-	-	1	1	1	2	-	-	1	1	-	1
Crustacea												
Asellus aquaticus	-	-	-	-	-	-	-	-	-	1	-	-
Gammarus pulex	66	16	11	19	45	28	3	-	6	57	2	11
Insecta												
Ephemeroptera	48(2)	1	28(3)	5(2)	12(3)	1	2(2)	27	47	9(3)	1	10(3)
Baetis rhodani	173	-	7	11	335	-	-	10	147	31	2	38
Sialis spp.	-	-	-	-	1	-	-	-	-	-	-	-
Plecoptera	3(2)	-	10(3)	55(3)	8(2)	1	-	12(2)	4(2)	8(2)	1	12(2)
Trichoptera - csl	12(2)	-	5	6	24(2)	37(2)	2	8(2)	32(2)	343	1	7
Trichoptera - csls	7	-	13(2)	18(3)	-	-	4(2)	1	1	13	1	8(2)
Coleoptera larvae	4(2)	-	6	3	8	4(2)	1	-	1	55(4)	-	1
Coleoptera adults	2	5	3(2)	-	29(2)	12(2)	-	1	10	89(2)	-	2
Chironomidae	1494(3)	198	17(3)	56(2)	1324(3)	108(3)	5	32	777(2)	483(2)	2	59
C. riparius	-	1	-	-	-	-	-	-	-	-	-	-
Simuliidae	2	1	-	-	-	4	-	-	-	77	-	-
Tipulidae	3	2	3	2	2	6	1	-	-	-	-	3
Other Diptera	-	-	8(2)	6(3)	-	-	-	-	-	10	-	1
Arachnida												
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
P. jenkinsi	-	-	-	-	-	16	-	4	1	29	-	4
Limnaea pereger	3	2	5	2	-	49	8	1	-	86	4	8
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-
Ancylidae sp.	-	-	-	-	-	-	1	-	-	-	-	-
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	1	-	2	-	-	1	-	-	-	2	-	1
Number of animals	1841	232	141	210	1803	272	50	122	1038	1301	22	206
Number of species	20	11	24	21	19	18	12	12	15	26	10	21
Trent Biotic Index	10	7	10	10	10	9	8	9	9	10	7	10
Chandler Score	1009	414	1224	961	982	767	628	660	756	1251	487	1049
Diversity Index	1.15	0.96	3.85	3.54	1.30	2.68	2.62	2.82	1.34	2.81	2.93	3.27
Physical and chemical data												
Temperature °C	14	14	8	3	10	12	4	5	9.5	10.5	5	4
D.O., mg/l	-	-	-	-	-	-	-	-	4.8	10.2	12.2	9.7
pH	-	-	-	-	-	-	-	-	7.1	7.4	7.8	7.3
Width in metres	2.1	2.1-2.4	1.8-2.1	1.8-2.1	1.8-2.1	1.8-2.1	1.8-2.1	2.1-2.7	1.8-2.7	1.8-2.4	2.4-2.7	1.8-2.1
Depth in cms	5	7.5	15-25	7-25	7-15	7.5	5-15	7-15	7-15	7-15	7-25	15-25
Current, m/sec	0.3	0.3	0.9	0.6	0.3	0.3	0.3	0.6	0.3	0.3	0.9	0.4
Colour	cls.	cls.	br.	br.	cls.	cls.	cls.	br.	cls.	cls.	br.	cls.
Clarity	cl.	cl.	t.	t.	cl.	cl.	cl.	t.	cl.	cl.	t.	cl.
% Weed cover	50	90	-	-	25	90	5	-	90	75	-	5
Weed types	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	-	Cl.

Figures in brackets denote numbers of species
Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	ILLEY BROOK												TABLE 75
Year	1967				1968				1969				1970
Month	6	9	12	3	6	9	12	3	6	9	12	3	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta													
Tubificidae	596	32	-	89	96	493	19	6	11	39	2	26	
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-	-
Lumbricidae	2	-	-	-	-	3	-	-	-	-	-	-	-
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	-
Hirudinea													
Erpobdellidae	-	-	-	-	-	5	-	-	-	-	-	-	-
Glossiphoniidae	-	-	-	-	-	2	-	-	-	-	-	-	-
Crustacea													
Asellus aquaticus	-	-	-	-	-	-	-	-	-	-	-	-	-
Gammarus pulex	6	1	-	11	5	68	25	24	2	17	1	2	
Insecta													
Ephemeroptera	3	-	-	1	1	1	-	-	-	1	-	-	-
Baetis rhodani	87	-	-	17	-	56	-	14	-	13	-	-	-
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csd	-	-	-	-	-	-	-	2	1	-	1	-	-
Trichoptera - csls	-	-	-	-	-	1	-	1	-	-	-	-	-
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera adults	-	-	-	-	-	-	-	-	-	2	-	-	-
Chironomidae	640	418(2)	-	119	37	618(2)	318	168	-	1134(3)	28	250(2)	
C. riparius	-	51	-	45	4	-	316	-	18	6	282	648	
Simuliidae	-	3	-	-	-	-	-	-	-	60	-	-	-
Tipulidae	2	-	-	3	-	9	-	2	1	-	-	1	
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	-
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca													
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-	-
Limnaea pereger	-	1	-	-	-	3	-	-	-	-	1	-	-
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-	-
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	-	-	-	1	-	-	-	-	-	-	-	-	-
Number of animals	1336	506	-	286	143	1259	679	217	33	1272	315	927	
Number of species	7	7	-	8	5	12	5	7	5	10	6	6	
Trent Biotic Index	6	5	-	6	5	7	4	5	4	6	5	4	
Chandler Score	283	166	-	313	169	419	147	294	200	332	192	132	
Diversity Index	1.36	0.89	-	2.01	1.25	1.61	1.36	1.19	1.55	0.71	0.57	1.04	
Physical and chemical data													
Temperature °C	7	13	-	4	12	12	7	2	9	12	4	1	
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-
pH	-	-	-	-	-	-	-	-	-	-	-	-	-
Width in metres	1.8- 2.1	1.8- 2.1	-	1.5- 1.8	1.8	1.8	2.1	2.1	1.5- 2.1	1.8- 2.1	1.5- 1.8	2.4- 2.7	
Depth in cms	5	5	-	5	5	5	25	7-15	7.5	5	7.5	7.5	
Current, m/sec	0.3	0.3	-	0.3	0.3	0.4	0.1	0.2	0.4	0.3	0.3	0.3	
Colour	cls.	br.	-	cls.	cls.	cls.	cls.	cls.	cls.	cls.	cls.	cls.	
Clarity	cl.	t.	-	cl.	cl.	cl.	cl.	cl.	cl.	cl.	cl.	cl.	
% Weed cover-	-	-	-	-	-	-	-	-	-	-	-	-	
Weed types	-	-	-	-	-	-	-	-	-	-	-	-	

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	14	ILLEY BROOK							TABLE 76				
Year		1970			1971			1972			1973		
Month	6	9	12	3	6	9	12	3	6	9	12	3	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	1	-	-	-	-	-	-
Oligochaeta													
Tubificidae	186	6	79	185	156	6	7	47	7	1	1	1	1
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	3	-	-
Lumbricidae	-	-	-	-	-	-	1	-	-	-	-	-	-
Naididae	-	2	-	-	-	-	-	-	-	-	-	-	-
Hirudinea													
Erpobdellidae	-	-	-	-	-	-	-	-	1	-	-	-	-
Glossiphoniidae	-	-	-	-	-	-	3	1	-	1	-	-	-
Crustacea													
Asellus aquaticus	-	-	-	-	-	-	3	-	-	1	2	3	3
Gammarus pulex	-	22	20	1	11	9	30	-	2	33	7	7	7
Insecta													
Ephemeroptera	2	-	-	1	5(3)	2	17(2)	4	5(2)	3	2	7(2)	7(2)
Baetis rhodani	37	2	-	1	157	15	5	14	29	16	2	18	18
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	3	1	-	5	-	1	1	-	6(2)	6(2)
Trichoptera - csd	1	-	-	-	2	1	1	2	2	-	-	4	4
Trichoptera - csis	1	-	1	1	3	3	3(2)	1	-	-	-	3(2)	3(2)
Coleoptera larvae	-	1	3	-	2	1	4(2)	-	-	3	-	-	-
Coleoptera adults	-	1	-	1	23	7	-	-	14(2)	22(3)	-	-	-
Chironomidae	283(3)	193	183(2)	40(2)	75(2)	30	5(2)	10	71(2)	8	3	5	5
C. riparius	-	3	4	-	-	-	-	-	-	-	-	-	-
Simuliidae	-	10	-	-	-	23	-	-	-	7	-	-	-
Tipulidae	-	1	3	3	4	2	9	2	-	5	-	2	2
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	-
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca													
P. jenkinsi	-	-	-	-	-	3	-	2	8	237	15	3	3
Limnaea pereger	-	-	2	-	-	5	6	2	1	39	-	1	1
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-	-
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	-	-	1	-	-	-	1	-	-	9	-	2	2
Number of animals	510	241	296	236	439	107	101	85	141	386	35	63	63
Number of species	8	10	10	10	14	13	20	10	14	16	8	17	17
Trent Biotic Index	6	5	5	7	8	7	9	6	8	9	6	10	10
Chandler Score	291	326	302	469	644	549	897	460	638	713	280	858	858
Diversity Index	1.34	1.18	1.52	1.03	2.12	2.97	3.47	2.13	2.36	2.16	2.45	3.51	3.51
Physical and chemical data													
Temperature °C	14	14	8	3	10	12	4	5	9.5	10.5	5	4	4
D.O., mg/l	-	-	-	-	-	-	-	-	4.7	9.8	11.8	9.4	9.4
pH	-	-	-	-	-	-	-	-	7.1	7.5	7.8	7.3	7.3
Width in metres	1.8	1.8- 2.1	1.8- 2.1	2.1	1.5- 2.1	1.5- 1.8	1.8- 2.1	2.1	1.5- 1.8	1.8	2.4- 2.7	2.1- 2.7	2.1- 2.7
Depth in cms	7.5	5	25-30	25	5	5	7.5	15-25	5-7.5	5	15-25	7-15	7-15
Current, m/sec	0.3	0.4	0.6	0.3	0.3	0.2	0.4	0.3	0.6	0.3	0.4	0.4	0.4
Colour	cls.	cls.	br.	br.	cls.	cls.	cls.	br.	cls.	cls.	br.	cls.	cls.
Clarity	cl.	cl.	t.	t.	cl.	cl.	cl.	t.	cl.	cl.	t.	cl.	cl.
% Weed cover	-	-	-	-	-	-	-	-	-	-	-	5	5
Weed types	-	-	-	m	-	-	-	-	-	-	-	Cl.	Cl.

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Station	15. ILLEY BROOK												TABLE 77
Year	1967				1968				1969				1970
Month	6	9	12	3	6	9	12	3	6	9	12	3	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta													
Tubificidae	-	58	-	2	8	9	54	12	6	-	2	7	
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-	-
Lumbricidae	-	-	-	-	-	-	-	-	1	-	-	-	-
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	-
Mirudinea													
Erpobdellidae	-	3	-	-	7	8	16	-	8	7	2	1	
Glossiphoniidae	-	1	-	-	-	-	-	-	-	-	-	-	-
Crustacea													
Asellus aquaticus	-	1	-	-	-	2	8	-	-	2	4	-	
Gammarus pulex	-	-	-	-	-	18	9	2	-	-	1	2	
Insecta													
Ephemeroptera	-	-	-	-	-	6	-	12(2)	3	-	1	-	
Baetis rhodani	-	1	-	9	-	239	-	33	6	14	2	10	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csd	-	-	-	-	3	1	5(2)	3	1	-	-	-	
Trichoptera - csls	-	-	-	-	-	-	-	1	-	-	-	-	
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	
Chironomidae	-	3	-	51	104	270(2)	160	335	21	378(3)	124	153	
C. riparius	-	-	-	2	-	-	29	1	4	6	1	-	
Simuliidae	-	-	-	2	-	2	4	6	-	-	2	6	
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-	
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	-	-	-	-	-	-	-	-	-	2	-	-	
Limnaea pereger	-	223	-	6	-	-	9	-	-	2	-	1	
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-	
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	-	-	-	-	-	-	2	-	-	1	-	-	
Number of animals	-	290	-	72	122	555	296	405	50	412	139	181	
Number of species	-	7	-	6	4	10	11	10	8	10	9	8	
Trent Biotic Index	-	5	-	5	4	6	7	7	6	5	6	6	
Chandler Score	-	170	-	185	133	385	391	512	306	215	326	299	
Diversity Index	-	0.97	-	1.45	.82	1.52	2.18	1.05	2.44	0.60	0.80	0.97	
Physical and chemical data													
Temperature °C	-	13	-	4	12	12	7	2	9	12	4	2	
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	-	-	-	-	
Width in metres	-	1.8- 2.4	-	2.1- 3.0	3.0	3.0	3.0	3.0	3.0- 3.6	3.0- 3.6	2.1- 2.4	3.0	
Depth in cms	-	7-15	-	7.5	7.5	7.5	7.5	7.5	15	7-15	7.5	15	
Current, m/sec	-	0.3	-	0.3	0.3	0.3	0.3	0.3	0.3	0.1	0.3	0.3	
Colour	-	br.	-	cls.	cls.	cls.	cls.	cls.	cls.	cls.	cls.	cls.	
Clarity	-	t	-	cl.	cl.	cl.	cl.	cl.	cl.	cl.	cl.	cl.	
% Weed cover	-	-	-	-	-	50	5	5	5	-	5	-	
Weed types	-	-	-	-	-	Cl.	Cl.	Cl.	Cl.	-	Cl.	-	

Figures in brackets denote numbers of species
Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	15.	ILLEY BROOK						TABLE 78					
Year		1970			1971			1972				1973	
Month	6	9	12	3	6	9	12	3	6	9	12	3	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	
Oligochaeta													
Tubificidae	75	4	31	10	8	-	11	9	1	-	34	1	
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-	
Lumbricidae	-	-	-	-	-	-	-	1	-	-	-	-	
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	
Hirudinea													
Erpobdellidae	4	4	14	8	9	2	1	3	-	-	6(2)	4	
Glossiphoniidae	-	-	-	-	-	2	5	2	-	9	4	3	
Crustacea													
Asellus aquaticus	1	-	6	6	5	22	98	33	11	347	145	75	
Gammarus pulex	-	-	1	-	5	-	-	1	1	3	4	8	
Insecta													
Ephemeroptera	4	-	-	3	3(2)	-	1	7	-	-	-	-	
Baetis rhodani	5	3	-	7	5	9	-	144	3	5	1	20	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	1	
Trichoptera - csd	-	-	-	-	-	-	-	1	2	2(2)	1	-	
Trichoptera - csls	-	-	1	-	-	-	-	2	2	-	-	-	
Coleoptera larvae	-	-	-	-	-	5	-	-	-	5	2(2)	-	
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	
Chironomidae	29(2)	96	66(2)	53	456(2)	54(2)	10(3)	12	75	36	7	3	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	-	5	1	-	-	1	11	1	-	-	-	
Tipulidae	-	-	-	-	-	-	1	-	-	-	-	-	
Other Diptera	-	-	-	-	-	-	-	1	-	-	-	-	
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	-	-	-	-	-	3	-	-	-	-	-	-	
Limnaea pereger	-	-	3	6	1	659	77	12	3	86	31	5	
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-	
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	-	-	2	2	-	2	8	-	-	1	3	-	
Number of animals	118	107	129	96	492	758	213	239	99	494	238	120	
Number of species	7	4	10	9	10	10	12	14	9	10	13	9	
Trent Biotic Index	6	4	5	6	7	5	6	7	6	6	7	7	
Chandler Score	208	99	269	322	349	263	340	565	345	397	429	304	
Diversity Index	1.49	0.63	2.05	2.22	0.57	.81	1.92	2.12	1.39	1.41	1.93	1.85	
Physical and chemical data													
Temperature °C	14	14	8	3	10	12	4	5	9.5	10.5	5	4	
D.O.,mg/l	-	-	-	-	-	-	-	-	4.8	9.6	11.2	9.0	
pH	-	-	-	-	-	-	-	-	7.2	7.3	7.6	7.3	
Width in metres	2.1	2.1-2.4	2.4-2.7	2.1	2.1-2.4	2.4	2.4	2.4-2.7	2.4	2.1-2.4	2.4	2.1-2.4	
Depth in cms	7.5	7-15	25	25	15	7-15	15-25	25-30	7-25	7-15	25-30	15	
Current, m/sec	0.3	0.3	0.9	0.6	0.2	0.3	0.4	0.6	0.2	0.2	0.4	0.3	
Colour	cls.	cls.	br.	br.	cls.	cls.	cls.	br.	cls.	cls.	br.	cls.	
Clarity	cl.	cl.	t.	t.	cl.	cl.	cl.	t.	cl.	cl.	t.	cl.	
% Weed cover	5	75	-	-	75	90	5	-	50	90	-	5	
Weed types	Cl.	Cl.	-	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cal.	Cl.	
							Cal.		Cal.	Cal.		Cal.	

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	LUTLEY GUTTER												TABLE 79
Year	1967 - 1970												
Month	6	9	12	3	6	9	12	3	6	9	12	3	1970
Platyhelminthes													
Turbellaria	3	4	1	1	3	-	1	1	-	-	-	-	12
Oligochaeta													
Tubificidae	10	5	3	18	1	-	3	1	-	2	-	-	3
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-	-
Lumbricidae	1	1	1	1	-	-	1	2	-	1	1	1	2
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	-
Mirudinea													
Erpobdellidae	-	-	-	-	-	1	-	-	-	-	-	-	-
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-	-
Crustacea													
Asellus aquaticus	-	-	-	-	-	-	-	-	-	-	-	-	-
Gammarus pulex	39	91	80	37	73	679	137	219	101	245	158	161	161
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	-
Baetis rhodani	54	4	39	28	54	70	3	30	20	46	7	111	111
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csd	1	2	-	1	4(2)	3	3	2	2	-	-	-	1
Trichoptera - csls	-	-	-	-	-	-	-	1	-	-	1	-	-
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	-
Chironomidae	12	44(2)	13	6	-	-	3	18	1	-	2	1	1
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	-	-	7	-	-	2	24	1	-	1	2	4	4
Tipulidae	5	2	4	2	-	3	1	9(2)	1	7	2	6	6
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	-
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca													
P. jenkinsi	-	-	-	-	-	-	1	-	-	-	-	2	2
Limnaea pereger	-	-	-	-	-	-	2	-	-	-	-	-	-
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-	-
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	-	7	-	-	-	-	-	-	-	-	-	1	1
Number of animals	125	160	148	94	135	755	179	284	125	302	173	304	304
Number of species	8	10	8	8	6	6	11	11	5	6	7	11	11
Trent Biotic Index	6	6	5	6	6	6	7	7	5	5	6	7	7
Chandler Score	327	346	313	312	295	315	456	485	251	256	293	486	486
Diversity Index	2.08	1.78	1.78	2.05	1.33	0.24	1.28	1.24	.89	.89	.63	1.61	1.61
Physical and chemical data													
Temperature °C	6.5	14	4	4	12	13	7	3	11	13	8	2	2
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-
pH	-	-	-	-	-	-	-	-	-	-	-	-	-
Width in metres	1.8-3.0	1.8	1.5-2.0	1.5-1.8	1.0-1.5	1.5-1.8	2.0	2.7	2.7-3.0	1.8-3.0	1.8-2.7	2.0-3.0	2.0-3.0
Depth in cms	7.5	5	7.5	5	5	5	5	5	5	5	7-15	7.5	7.5
Current, m/sec	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.2	0.4	0.3	0.3
Colour	cls.	cls.	cls.	cls.	cls.	cls.	cls.	cls.	cls.	cls.	cls.	cls.	cls.
Clarity	cl.	cl.	cl.	cl.	cl.	cl.	cl.	cl.	cl.	cl.	cl.	cl.	cl.
% Weed cover	-	-	-	-	-	-	-	-	-	-	-	-	-
Weed types	-	-	-	-	-	-	-	-	-	-	-	-	-

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Station	16				LUTLEY GUTTER				TABLE 80				
Year	1970 - 1973				1971				1972				1973
Month	6	9	12	3	6	9	12	3	6	9	12	3	
Platyhelminthes													
Turbellaria	24	-	9	3	8	-	16	14	18	1	4	-	
Oligochaeta													
Tubificidae	-	1	5	4	1	1	6	11	-	-	-	-	
Enchytraeidae	-	-	-	-	-	-	-	-	14	-	-	-	
Lumbricidae	-	-	1	-	1	-	1	2	-	-	-	-	
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	
Hirudinea													
Erpobdellidae	-	-	-	1	-	-	-	-	1	-	-	-	
Glossiphoniidae	-	-	-	1	-	-	-	1	-	-	-	-	
Crustacea													
Asellus aquaticus	-	-	-	-	-	-	-	-	-	-	-	-	
Gammarus pulex	295	109	240	254	226	330	160	199	92	214	90	58	
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	1	-	-	-	-	
Baetis rhodani	189	23	25	97	217	83	2	15	321	14	-	-	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csd	1	-	-	1	-	-	2	3	1	-	3	4	
Trichoptera - csls	-	-	1	1	-	-	3(2)	-	-	-	1	1	
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	
Chironomidae	3	-	17(2)	-	3	4	2	2	-	2	2	3	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	4	9	-	-	1	5	-	-	-	-	-	
Tipulidae	1	-	8	4	2	5	-	3	2	1	-	1	
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	-	-	6	-	-	12	5	-	-	-	-	5	
Limnaea pereger	-	-	-	-	-	-	-	-	-	-	-	-	
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-	
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	-	1	2	-	-	1	2	-	-	1	-	-	
Number of animals	513	138	323	366	458	437	204	251	449	233	96	68	
Number of species	6	5	12	9	7	8	12	10	7	6	4	5	
Trent Biotic Index	6	4	7	6	5	5	7	6	6	5	5	4	
Chandler Score	283	201	444	396	257	313	483	435	298	241	186	218	
Diversity Index	1.27	0.95	1.54	1.16	1.23	1.10	1.37	1.26	1.23	.51	.42	.85	
Physical and chemical data													
Temperature °C	14	14	8	4	11	13	5	6	10.5	11	7	5.5	
D.O., mg/l	-	-	-	-	-	-	-	-	4.2	10.0	10.8	9.1	
pH	-	-	-	-	-	-	-	-	7.2	7.6	7.2	7.5	
Width in metres	2.0	1.8	2.4	1.8	2.0	1.8	2.4	3.0	1.8	1.8	2.0	1.8	
	2.7	2.5	2.7	2.4	2.7	2.4		3.3	3.0	3.0		2.5	
Depth in cms	7.5	5	7.5	7.5	5	5	5	15-25	5	5	25	7.5	
Current, m/sec	0.2	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.3	0.3	
Colour	cls.	cls.	cls.	cls.	cls.	cls.	cls.	br.	cls.	cls.	br.	br.	
Clarity	cl.	cl.	cl.	cl.	cl.	cl.	cl.	t.	cl.	cl.	t.	t.	
% Weed cover	-	-	-	-	-	-	-	-	-	-	-	-	
Weed types	-	-	-	-	-	-	-	-	-	-	-	-	

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

<u>Station</u>	17 LUTLEY GUTTER												TABLE 81	
<u>Year</u>	1967 - 1970													
<u>Month</u>	6	9	12	3	6	9	12	3	6	9	12	3		
Platyhelminthes														
Turbellaria	-	11	1	3	3	1	-	1	-	1	-	-	-	-
Oligochaeta														
Tubificidae	-	8	2	4	10	6	-	5	-	-	-	-	-	2
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lumbricidae	-	3	-	2	2	3	1	-	-	1	1	-	-	-
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hirudinea														
Erpobdellidae	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Glossiphoniidae	-	-	-	2	-	-	-	-	1	-	-	-	-	-
Crustacea														
Asellus aquaticus	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gammarus pulex	-	148	172	44	69	278	236	189	189	202	151	71	-	-
Insecta														
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Baetis rhodani	-	394	38	149	33	113	1	203	11	111	14	165	-	-
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csd	-	11(2)	10	9(2)	1	3	9(2)	9	30	-	-	-	-	-
Trichoptera - csfs	-	-	-	-	-	-	1	-	1	-	4	-	-	-
Coleoptera larvae	-	2(2)	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera adults	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Chironomidae	-	20	6	15	1	11	1	2	5	2	3	-	-	-
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	-	2	-	1	-	-	2	1	-	-	-	-	-	-
Tipulidae	-	8	4	9	1	2	1	2	-	1	3(2)	6	-	-
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arachnida														
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca														
P. jenkinsi	-	2	-	2	-	1	-	7	-	-	-	1	-	-
Limnaea pereger	-	10	5	2	-	-	-	2	-	-	-	-	-	-
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	-	-	-	-	-	-	-	-	-	-	-	1	-	-
Number of animals	-	619	238	242	120	419	252	421	237	318	176	246	-	-
Number of species	-	14	8	13	8	10	9	10	6	6	7	6	-	-
Trent Biotic Index	-	7	6	7	6	6	6	6	6	5	6	5	-	-
Chandler Score	-	620	348	556	327	409	446	427	263	240	338	239	-	-
Diversity Index	-	1.66	1.39	1.95	1.67	1.32	0.49	1.47	1.02	1.07	0.86	1.15	-	-
Physical and chemical data														
Temperature °C	-	14	4	4	12	13	7	3	11	13	8	2	-	-
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Width in metres	-	1.5-2.0	1.5	1.5-1.8	1.5-2.0	1.5-2.4	2.0-2.4	1.8-2.0	1.8-2.4	2.0	1.8-3.0	1.8-3.0	-	-
Depth in cms	-	5	7.5	7.5	5	5	7.5	7-15	7.5	7.5	7-15	7.5	-	-
Current, m/sec	-	0.2	0.2	0.3	0.2	0.1	0.1	0.2	0.3	0.1	0.3	0.3	-	-
Colour	-	cls.	cls.	cls.	cls.	cls.	cls.	cls.	cls.	cls.	cls.	cls.	-	-
Clarity	-	cl.	cl.	cl.	cl.	cl.	cl.	cl.	cl.	cl.	cl.	cl.	-	-
% Weed cover	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weed types	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	17		LUTLEY GUTTER						TABLE 82					
Year	1970 - 1973													
Month	6	9 ¹⁹⁷⁰	12	3	6 ¹⁹⁷¹	9	12	3	6 ¹⁹⁷²	9	12	3 ¹⁹⁷³	6	9
Platyhelminthes														
Turbellaria	-	-	2	-	-	-	-	-	2	-	-	-	-	1
Oligochaeta														
Tubificidae	-	-	1	-	4	-	-	6	-	-	-	-	-	-
Enchytraeidae	-	-	-	-	-	-	-	-	5	-	-	-	-	-
Lumbricidae	-	-	-	1	-	-	-	-	1	-	-	-	-	1
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hirudinea														
Erpobdellidae	-	-	-	-	-	1	-	-	-	1	-	-	-	-
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Crustacea														
Asellus aquaticus	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gammarus pulex	84	244	271	225	132	469	257	35	134	122	60	97		
Insecta														
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Baetis rhodani	7	20	17	269	25	11	6	34	28	4	-	1	-	-
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csd	-	1	4	-	-	-	2	-	-	-	-	-	-	-
Trichoptera - csls	-	-	1	1	-	-	-	1	-	1	1	-	-	-
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chironomidae	-	-	21(2)	-	2	2	-	8	15	2	7	23	-	-
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tipulidae	-	1	15	16	-	5	3	-	1	2	1	5	-	-
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arachnida														
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca														
P. jenkinsi	-	-	2	-	-	3	-	-	-	5	19	-	-	-
Limnaea pereger	-	-	1	-	-	-	-	-	-	1	1	-	-	-
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of animals	91	266	335	512	163	491	268	84	86	138	89	143		
Number of species	2	4	11	5	4	6	4	5	7	8	6	7		
Trent Biotic Index	4	5	7	5	4	5	5	5	5	6	5	5		
Chandler Score	86	223	443	254	134	233	226	196	249	294	218	252		
Diversity Index	0.39	0.45	1.15	1.20	.87	.34	.30	1.72	2.01	.81	1.36	1.46		
Physical and chemical data														
Temperature °C	14	14	8	4	11	13	5	6	11	11	7	5.5		
D.O., mg/l	-	-	-	-	-	-	-	-	4.1	9.8	11.1	9.1		
pH	-	-	-	-	-	-	-	-	7.2	7.4	7.2	7.4		
Width in metres	1.5-2.0	2.0-2.7	2.0-2.4	2.0-2.4	2.0	2.0	2.4	3.0-3.3	2.0-3.0	1.8-2.1	2.4	2.1-2.4		
Depth in cms	7.5	5	7.5	5	5	5	7-15	15-25	7.5	7.5	25	7-15		
Current, m/sec	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.2		
Colour	cls.	cls.	cls.	cls.	cls.	cls.	cls.	br.	cls.	cls.	br.	br.		
Clarity	cl.	cl.	cl.	cl.	cl.	cl.	cl.	t.	cl.	cl.	t.	t.		
% Weed cover	-	-	-	-	-	-	-	-	-	5	-	-		
Weed types	-	-	-	-	-	-	-	-	-	Cl.	-	-		

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	18 LUTLEY GUTTER												TABLE 83	
Year	1967 - 1970													
Month	6	9 ¹⁹⁶⁷	12	3	6	9 ¹⁹⁶⁸	12	3	6 ¹⁹⁶⁹	9	12	3 ¹⁹⁷⁰		
Platyhelminthes														
Turbellaria	-	-	-	1	-	1	-	-	-	-	-	-		
Oligochaeta														
Tubificidae	639	272	-	29	37	52	85	219	61	75	12	67		
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-		
Lumbricidae	-	-	-	2	-	-	1	1	5	2	3	2		
Naididae	-	-	-	-	-	-	-	-	-	-	-	-		
Hirudinea														
Erpobdellidae	-	-	-	-	-	1	-	-	-	-	-	-		
Glossiphoniidae	-	1	-	1	-	1	-	3	-	1	-	-		
Crustacea														
Asellus aquaticus	-	-	-	-	1	-	-	-	-	-	-	-		
Gammarus pulex	78	3	-	4	15	176	110	162	99	244	267	358		
Insecta														
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-		
Baetis rhodani	27	58	-	64	13	123	4	44	28	87	2	72		
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-		
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-		
Trichoptera - csd	1	1	-	3	1	3	5	11	15	1	4	4		
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	1		
Coleoptera larvae	1	-	-	-	-	-	-	-	-	-	-	-		
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-		
Chironomidae	56	21	-	14	40	68(2)	148	393	17	67(2)	169	228(2)		
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-		
Simuliidae	-	3	-	-	-	-	-	-	-	-	-	-		
Tipulidae	-	1	-	-	-	2	1	-	-	2(2)	3	-		
Other Diptera	-	1	-	-	-	-	-	-	-	-	-	-		
Arachnida														
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-		
Mollusca														
P. jenkinsi	136	71	-	24	21	85	43	49	5	3	3	9		
Limnaea pereger	5	31	-	1	2	95	22	35	1	2	17	16		
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-		
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-		
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-		
Pisidium sp.	-	-	-	-	2	2	-	4	-	1	1	1		
Number of animals	943	463	-	143	132	609	419	921	231	485	481	758		
Number of species	8	11	-	10	9	13	9	10	8	13	10	11		
Trent Biotic Index	6	7	-	6	6	7	6	6	6	7	6	7		
Chandler Score	287	413	-	345	307	421	328	324	287	454	362	343		
Diversity Index	1.53	1.87	-	2.24	2.43	2.59	2.24	2.22	2.20	1.95	1.55	1.94		
Physical and chemical data														
Temperature °C	6.5	14	-	4	12	13	7	3	11	13	8	2		
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	-		
pH	-	-	-	-	-	-	-	-	-	-	-	-		
Width in metres	1.5-1.8	1.8	-	1.8-2.1	2.0	2.0	2.0	1.8-2.4	1.8-2.1	1.8-2.1	1.8-2.1	1.8-2.4		
Depth in cms	7.5	5	-	7.5	7.5	7.5	7.5	7-15	7.5	7.5	15-25	7-15		
Current, m/sec	0.2	0.3	-	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.4		
Colour	cls.	cls.	-	cls.	cls.	cls.	cls.	cls.	cls.	cls.	gr.	cls.		
Clarity	cl.	cl.	-	cl.	cl.	cl.	cl.	cl.	cl.	cl.	t.	cl.		
% Weed cover	25	10	-	-	-	50	10	-	-	20	-	10		
Weed types	Cl.	Cl.	-	-	-	Cl.	Cl.	-	-	Cl.	-	Cl.		

Figures in brackets denote numbers of species
Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	LUTLEY GUTTER												TABLE 84
Year	1970 - 1973												
Month	6	9	12	3	6	9	12	3	6	9	12	3	1973
Platyhelminthes													
Turbellaria	2	-	-	-	1	-	1	2	7	2	-	-	-
Oligochaeta													
Tubificidae	166	14	76	50	12	-	14	19	37	71	17	15	-
Enchytraeidae	-	-	-	-	188	-	-	-	32	-	-	-	-
Lumbricidae	1	-	4	-	1	2	1	3	2	-	2	-	-
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	-
Hirudinea													
Erpobdellidae	-	-	2	-	-	1	1	-	3	-	1	-	-
Glossiphoniidae	-	-	-	1	-	-	2	1	3	1	-	-	-
Crustacea													
Asellus aquaticus	-	-	-	-	-	-	-	-	-	-	-	-	-
Gammarus pulex	739	164	406	211	157	242	106	149	56	43	14	25	-
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	-
Baetis rhodani	35	9	13	118	72	2	7	18	29	7	-	-	-
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	1	-	-	-	-	-
Trichoptera - csd	-	1	4	1	-	-	1	5	3	1	4	-	-
Trichoptera - csis	-	-	1	-	-	-	-	-	2	-	1	-	-
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	-
Chironomidae	31(3)	25	386(2)	107(2)	10	34	90(2)	36	20(2)	77	4	5	-
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	-
Tipulidae	1	-	2(2)	-	-	-	-	1	-	1	-	-	-
Other Diptera	3	-	-	-	-	-	-	-	-	-	-	-	-
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca													
P. jenkinsi	8	2	63	16	57	126	259	-	16	33	7	-	-
Limnaea pereger	1	19	88	23	3	52	82	12	1	2	1	4	-
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-	-
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	3	-	4	-	1	1	5	1	2	3	-	-	-
Number of animals	990	234	1049	527	502	460	569	248	213	240	51	49	-
Number of species	13	7	14	9	10	8	13	12	15	11	9	4	-
Trent Biotic Index	6	6	7	6	5	5	7	8	7	7	6	4	-
Chandler Score	353	250	471	270	276	224	370	484	465	395	303	106	-
Diversity Index	1.22	1.51	2.09	2.18	2.15	1.73	2.15	1.99	2.99	2.32	2.52	1.64	-
Physical and chemical data													
Temperature °C	14	14	8	4	11	13	6	6	11.5	11	7	6	-
D.O., mg/l	-	-	-	-	-	-	-	-	4.0	6.4	11.0	9.1	-
pH	-	-	-	-	-	-	-	-	7.2	7.4	7.2	7.3	-
Width in metres	2.0	1.8- 2.1	1.8	1.8- 2.1	1.5- 2.1	1.5- 2.1	1.8- 2.4	2.4	2.0	2.0- 2.4	1.5- 1.8	1.5- 2.0	-
Depth in cms	7-15	7.5	7-15	7-15	7-15	7-15	7-15	30-40	7-15	5	15	7-15	-
Current, m/sec	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.3	-
Colour	cls.	cls.	cls.	cls.	cls.	cls.	cls.	br.	cls.	cls.	br.	br.	-
Clarity	cl.	cl.	cl.	cl.	cl.	cl.	cl.	t.	cl.	cl.	t.	t.	-
% Weed cover	25	50	5	75	90	50	25	-	5	10	-	-	-
Weed types	Cl.	Cl.	Cl.	gr.	gr.	gr.	gr.	Cl.	gr.	Cl.	-	-	-

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	20 MOUSESWEET BROOK												TABLE 85
Year	1967 - 1970												
Month	6	9	12	3	6	9	12	3	6	9	12	3	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	
Oligochaeta													
Tubificidae	-	-	51	213	115	106	67	121	105	6	-	40	
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-	
Lumbricidae	-	-	-	-	-	1	-	2	1	-	-	-	
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	
Nirudinea													
Eryobdellidae	-	-	-	-	-	-	1	2	1	4	-	1	
Glossiphoniidae	-	-	-	-	-	-	-	-	-	1	-	-	
Crustacea													
Asellus aquaticus	-	-	-	-	-	-	3	-	-	-	-	-	
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-	
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csl	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	
Chironomidae	-	-	-	1	-	71(2)	25	7	1	241	-	22	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	
Tipulidae	-	-	-	1	-	1	-	1	-	-	-	-	
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-	
Limnaea pereger	-	-	-	-	-	7	20	103	-	25	-	145	
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-	
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Number of animals	-	-	51	215	115	186	116	236	108	277	-	208	
Number of species	-	-	1	3	1	6	5	6	4	5	-	4	
Trent Biotic Index	-	-	1	2	1	2	3	3	2	2	-	2	
Chandler Score	-	-	12	134	9	274	104	161	86	104	-	73	
Diversity Index	-	-	0	0.08	0	1.25	1.56	1.31	0.22	0.72	-	1.20	
Physical and chemical data													
Temperature °C	-	-	4	4	12	14	9	6	12	14	-	6	
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	-	-	-	-	
Width in metres	-	-	1.5	1.5- 1.8	1.5	1.5	1.5	1.5- 1.8	1.5- 1.8	1.5	-	1.5	
Depth in cms	-	-	7.5	5	7.5	5	5	7-15	15-25	7-15	-	15-25	
Current, m/sec	-	-	0.2	0.3	0.2	0.3	0.3	0.2	0.4	0.2	-	0.3	
Colour	-	-	br.	cls.	cls.	gr.	cls.	cls.	gr.	cls.	-	cls.	
Clarity	-	-	t.	cl.	cl.	t.	cl.	cl.	t.	cl.	-	cl.	
% Weed cover	-	-	-	20	75	-	<10	-	-	-	-	-	
Weed types	-	-	St.	St.	St.	-	St.	-	-	-	-	-	

Figures in brackets denote numbers of species
Key to abbreviations on page 1.

Station 20 MOUSESWEET BROOK

TABLE 86

Year	1970 - 1973											
Month	1970				1971				1972			
	6	9	12	3	6	9	12	3	6	9	12	3
Platyhelminthes												
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta												
Tubificidae	82	20	34	1	15	-	9	78	81	85	43	8
Enchytraeidae	-	-	-	-	-	-	-	-	317	-	-	-
Lumbricidae	-	-	-	-	-	-	-	-	-	-	1	1
Naididae	-	-	-	-	-	-	-	-	-	-	-	-
Hirudinea												
Erpobdellidae	7	3	4	1	6	2	5	-	1	4	1	1
Glossiphoniidae	-	-	-	-	1	-	-	-	-	-	-	-
Crustacea												
Asellus aquaticus	1	-	-	-	-	-	2	-	-	7	1	2
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-
Insecta												
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csd	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csis	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-
Chironomidae	111(2)	15	1	10	2	13	-	1	17	87(3)	-	2
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-
Tipulidae	-	-	-	-	-	-	-	1	-	-	-	-
Other Diptera	-	-	1	-	-	-	-	-	-	-	-	-
Arachnida												
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	1
Limnaea pereger	223	71	59	25	46	365	148	65	13	195	48	27
Physa fontinalis	-	-	-	-	-	-	-	-	-	1	-	-
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	-	-	-	-	-	-	1	-	-	-	-	-
Number of animals	424	109	99	37	70	380	165	145	429	379	94	42
Number of species	6	4	5	4	5	3	5	4	5	8	5	7
Trent Biotic Index	3	2	2	2	2	2	3	2	2	4	3	4
Chandler Score	90	68	107	96	112	64	111	122	90	120	112	175
Diversity Index	1.57	1.38	1.29	1.17	1.41	0.26	0.64	1.09	1.13	1.66	1.22	1.67
Physical and chemical data												
Temperature °C	14	14	10	6	11	14	8	9	12.5	14	7.5	6.5
D.O., mg/l	-	-	-	-	-	-	-	-	6.2	8.7	9.8	8.8
pH	-	-	-	-	-	-	-	-	7.1	7.3	7.1	7.3
Width in metres	0.9-1.2	0.6-0.9	0.9-1.2	0.6-0.9	0.9-1.2	0.3-0.6	0.6-0.9	0.6-0.9	0.6-0.9	0.6-0.9	1.2	0.6-1.2
Depth in cms	7-25	7-30	25-30	25-30	25-40	15-25	7-25	30-40	25-30	25	40-45	25-40
Current, m/sec	0.3	0.6	0.6	0.4	0.6	0.3	0.4	0.3	0.3	0.3	0.3	0.3
Colour	cls.	cls.	gr.	cls.	br.	cls.	cls.	gr.	cls.	cls.	gr.	br.
Clarity	cl.	cl.	t.	cl.	t.	cl.	cl.	tr.	cl.	cl.	t.	t.
% Weed cover	25	40	-	-	-	-	-	-	50	-	-	-
Weed types	St.	St.	-	-	St.	-	-	-	St.	-	-	-

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	MOUSESWEET BROOK												TABLE 87
Year	1967				1968				1969				1970
Month	6	9	12	3	6	9	12	3	6	9	12	3	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta													
Tubificidae	10	3	8	8	7	5	-	4	-	-	1	2	
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-	-
Lumbricidae	-	-	-	-	-	-	-	-	1	-	-	-	-
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	-
Hirudinea													
Erpobdellidae	-	1	-	-	-	-	-	2	-	1	-	1	
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-	-
Crustacea													
Asellus aquaticus	-	-	-	-	-	-	-	-	-	-	-	-	-
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-	-
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	-
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-	-
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csl-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	-
Chironomidae	56	88	3	13	2	29	-	4	-	3	-	5	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	-
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	-
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca													
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-	-
Limnaea pereger	1	10	-	1	-	1	2	1	4	1	-	1	
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-	-
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of animals	67	102	11	22	9	35	2	11	5	4	1	9	
Number of species	3	4	2	3	2	3	1	4	2	2	1	4	
Trent Biotic Index	2	2	2	2	2	2	1	2	2	2	1	2	
Chandler Score	69	88	43	69	46	69	30	97	53	49	22	101	
Diversity Index	0.71	0.72	0.84	1.18	0.76	0.77	0	1.8	0.72	0.81	0	1.65	
Physical and chemical data													
Temperature °C	7	13.5	4	4	12	14	7	6	12	14	8	6	
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-
pH	-	-	-	-	-	-	-	-	-	-	-	-	-
Width in metres	2.4	2.4	1.5- 1.8	1.8- 2.1	2.1	2.4	2.4- 2.7	2.4- 2.7	2.4- 3.0	2.1	2.4- 3.3	2.4- 3.3	
Depth in cms	7.5	5	5	5	7.5	5	5	7.5	7-15	7-15	7-15	7-15	
Current, m/sec	0.2	0.3	0.2	0.3	0.2	0.3	0.3	0.3	0.6	0.2	0.3	0.3	
Colour	cls.	cls.	br.	cls.	cls.	gr.	cls.	cls.	cls.	gr.	cls.	cls.	
Clarity	cl.	cl.	t.	cl.	cl.	t.	cl.	cl.	cl.	t.	cl.	cl.	
% Weed cover	25	5	-	50	75	-	25	75	50	-	5	5	
Weed types	St.	St.	St.	St.	St.	St.	St.	St.	St.	-	St.	St.	

Figures in brackets denote numbers of species
Key to abbreviations on page 1.

Station	21. MOUSESWEET BROOK											TABLE 88
Year	1970 - 1973											
Month	6	9 ¹⁹⁷⁰	12	3	6	9 ¹⁹⁷¹	12	3	6 ¹⁹⁷²	9	12	3 ¹⁹⁷³
Platyhelminthes												
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta												
Tubificidae	1	-	-	3	2	4	1	4	2	4	10	1
Enchytraeidae	-	-	-	-	-	-	-	-	19	-	-	-
Lumbricidae	-	-	-	-	-	-	1	-	1	-	3	-
Naididae	-	-	-	-	-	-	-	-	-	-	-	-
Hirudinea												
Erpobdellidae	-	3	10	-	2	1	2	-	-	-	-	2
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-
Crustacea												
Asellus aquaticus	-	-	-	-	-	-	-	-	-	-	1	-
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-
Insecta												
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csl	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-
Chironomidae	290(3)54		1	48	31	57	1	10	38	27	15	2
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-
Tipulidae	-	1	-	-	-	-	1	-	-	-	-	-
Other Diptera	-	-	-	-	-	-	-	-	-	-	1	-
Arachnida												
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-
Limnaea pereger	-	16	15	12	25	44	43	25	60	235	346	85
Physa fontinalis	-	-	-	-	-	-	-	-	-	3	13	3
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	-	-	-	-	-	-	-	-	-	-	-	-
Number of animals	291	74	26	63	60	106	49	39	120	269	389	93
Number of species	4	4	3	3	4	4	6	3	5	4	7	5
Trent Biotic Index	2	2	2	2	2	2	3	2	2	2	4	2
Chandler Score	37	123	73	64	92	85	184	68	108	85	153	124
Diversity Index	0.03	1.08	1.16	0.96	1.34	1.25	0.81	1.25	1.60	0.66	0.72	0.58
Physical and chemical data												
Temperature °C	14	14	10	6	11	14	8	9	12.5	14	7.5	6.5
D.O., mg/l	-	-	-	-	-	-	-	-	7.7	9.1	10.6	8.8
pH	-	-	-	-	-	-	-	-	7.1	7.5	7.1	7.3
Width in metres	2.1- 3.3	2.1- 3.3	2.1- 3.0	1.8- 3.3	2.1- 3.3	1.8- 3.3	2.4- 3.3	1.8- 3.3	2.1- 3.3	2.1- 3.3	2.1- 3.3	2.1- 3.3
Depth in cms	7-15	7.5	7-15	7-15	7-15	7.5	7-15	7-15	7.5	7.5	15-25	15
Current, m/sec	0.3	0.3	0.6	0.3	0.6	0.3	0.3	0.3	0.3	0.3	0.6	0.3
Colour	cls.	cls.	gr.	cls.	br.	cls.	cls.	cls.	cls.	cls.	gr.	br.
Clarity	cl.	cl.	t.	cl.	t.	cl.	cl.	cl.	cl.	cl.	t.	t.
% Weed cover	5	5	-	25	-	-	-	25	25	5	-	-
Weed types	St.	St.	St.	St.	St.	-	-	St.	St.	St.	-	-

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Station 22. MOUSESWEET BROOK

TABLE 89

Year	1967 - 1970											
Month	6	9	12	3	6	9	12	3	6	9	12	3
Platyhelminthes												
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta												
Tubificidae	12	9	12	29	3	4	1	1	4	3	4	13
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-
Lumbricidae	-	-	-	-	-	-	1	-	-	-	-	-
Naididae	-	-	-	-	-	-	-	-	-	-	-	-
Mirudinea												
Erpobdellidae	1	-	-	1	-	2	1	-	-	1	-	1
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-
Crustacea												
Asellus aquaticus	-	-	-	-	-	-	-	-	-	-	-	-
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-
Insecta												
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csc	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-
Chironomidae	3	73	7	-	-	156	-	9	-	2	-	2
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-
Arachnida												
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-
Limnaea pereger	-	-	-	-	-	-	-	-	-	-	-	-
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	-	-	-	-	-	-	-	-	-	-	-	-
Number of animals	16	82	12	30	3	162	3	10	4	6	4	16
Number of species	3	2	1	2	1	3	3	2	1	3	1	3
Trent Biotic Index	2	2	1	2	1	2	2	2	1	2	1	2
Chandler Score	62	36	13	37	18	57	71	47	18	70	18	65
Diversity Index	1.01	0.49	0	0.21	0	0.26	1.58	0.46	0	1.45	0	0.86
Physical and chemical data												
Temperature °C	7	13.5	4	4	12	14	7	6	12	14	8	6
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	-
pH	-	-	-	-	-	-	-	-	-	-	-	-
Width in metres	3.6	3.6	3.0	3.0	3.0- 3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
Depth in cms	7.5	7.5	7-15	5	5	7.5	7.5	7.5	7-15	7.5	7.5	15
Current, m/sec	0.2	0.3	0.3	0.3	0.2	0.3	0.4	0.3	0.6	0.3	0.4	0.4
Colour	cls.	cls.	gr.	cls.	cls.	cls.	cls.	cls.	cls.	gr.	cls.	cls.
Clarity	cl.	cl.	tr.	cl.	cl.	cl.	cl.	cl.	cl.	t.	cl.	cl.
% Weed cover	50	25	25	25	90	25	25	10	50	-	5	5
Weed types	St.	St.	St.	St.	St.	St.	St.	St.	St.	-	St.	St.

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	22 MOUSESWEET BROOK												TABLE 90
Year	1970 - 1973												
Month	6	9	12	3	6	9	12	3	6	9	12	3	1973
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta													
Tubificidae	26	12	4	23	8	-	6	13	2	22	5	5	
Enchytraeidae	-	-	-	-	-	-	-	-	15	-	-	-	
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-	
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	
Mirudinea													
Erpobdellidae	-	1	1	-	-	-	-	-	-	-	-	-	
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-	
Crustacea													
Asellus aquaticus	-	-	-	-	-	-	-	-	-	-	-	-	
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-	
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csd	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	
Chironomidae	17(2)	22	1	4	1	104	-	1	3	227(2)	-	-	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-	
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-	
Limnaea pereger	-	5	7	1	-	3	5	2	3	14	4	1	
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-	
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Number of animals	43	40	13	28	9	107	11	16	23	263	9	6	
Number of species	3	4	4	3	2	2	2	3	4	4	2	2	
Trent Biotic Index	2	2	2	2	2	2	2	2	2	2	2	2	
Chandler Score	34	86	98	68	46	43	46	69	91	53	46	48	
Diversity Index	0.96	1.50	1.57	0.80	0.50	0.18	0.99	0.86	1.47	0.70	0.99	0.65	
Physical and chemical data													
Temperature °C	14	14	10	6	11	14	8	9	13.5	13	7.5	6.5	
D.O., mg/l	-	-	-	-	-	-	-	-	6.4	9.2	10.6	8.8	
pH	-	-	-	-	-	-	-	-	7.2	7.6	7.3	7.3	
Width in metres	3.0- 3.6	3.0- 3.6	3.6	3.6	3.6	3.6	3.0- 3.6	3.6	3.6	3.6	3.6	3.6	
Depth in cms	7-15	7.5	7-15	7-15	15	7.5	7.5	7-15	7.5	7.5	25-30	15-25	
Current, m/sec	0.4	0.3	0.6	0.3	0.9	0.3	0.4	0.4	0.4	0.3	0.6	0.3	
Colour	cls.	cls.	gr.	cls.	br.	cls.	cls.	gr.	cls.	cls.	gr.	br.	
Clarity	cl.	cl.	t.	cl.	t.	cl.	cl.	tr.	cl.	cl.	t.	t.	
% Weed cover	90	50	-	50	-	75	10	25	90	50	-	-	
Weed types	St.	St.	St.	St.	St.	St.	Wt.	St.	St.	St.	-	-	

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	MOUSESWEET BROOK												TABLE 91
Year	1967 - 1970												
Month	6	9	12	3	6	9	12	3	6	9	12	1970	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta													
Tubificidae	12	11	4	2	11	-	-	15	18	-	3	4	
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-	-
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-	-
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	-
Hirudinea													
Erpobdellidae	1	7	3	-	-	-	2	2	1	-	-	-	-
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-	-
Crustacea													
Asellus aquaticus	14	20	12	1	2	14	24	15	18	34	61	38	
Gammarus pulex	-	-	4	-	-	-	-	-	-	-	2	-	-
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	-
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-	-
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csl	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	-
Chironomidae	6	1	-	-	-	-	-	1	-	8	-	-	-
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	-
Tipulidae	-	-	-	-	-	-	-	-	-	-	2	-	-
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	-
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca													
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-	-
Lamnaea pereger	8	118	26	10	2	35	21	4	4	12	9	21	
Physa fontinalis	1	22	10	4	-	18	42	5	4	2	20	13	
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	-	1	-	1	-	1	2	2	24	5	-	2	
Number of animals	42	180	59	18	15	68	91	44	69	61	97	78	
Number of species	6	7	6	5	3	4	5	7	6	5	6	5	
Trent Biotic Index	4	4	5	3	3	3	3	4	4	3	5	3	
Chandler Score	138	152	149	133	68	98	122	169	136	126	185	116	
Diversity Index	2.15	1.63	2.16	1.76	1.10	1.56	1.75	2.26	2.10	1.77	1.59	1.80	
Physical and chemical data													
Temperature °C	6.5	13.5	4	4	12	14	10	6	13	15	9	6	
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	-	-	-	-	
Width in metres	1.8	1.5- 2.1	1.2- 1.5	1.5- 1.8	1.5	1.8	2.4- 2.7	1.8- 2.1	2.1	2.1- 2.7	1.8- 2.1	1.8- 2.1	
Depth in cms	7-25	7-25	15-25	7-25	15-25	7-25	15-30	15-30	40	15-30	15-30	25-30	
Current, m/sec	0.4	0.4	0.7	0.6	0.6	0.6	0.9	0.9	1.2	0.9	1.2	1.2	
Colour	cls.	cls.	gr.	cls.	cls.	cls.	cls.	cls.	br.	cls.	cls.	gr.	
Clarity	cl.	cl.	t.	cl.	cl.	cl.	cl.	cl.	t.	cl.	cl.	t.	
% Weed cover	-	5	-	25	-	5	5	20	-	5	-	-	
Weed types	Cl.	Cl.	St.	St.	-	P.p	-	St.	-	P.p.	-	St.	

Figures in brackets denote numbers of species
Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	24 MOUSESWEET BROOK												TABLE 92	
Year	1970 - 1973													
Month	1970			1971			1972			1973				
	6	9	12	3	6	9	12	3	6	9	12	3		
Platyhelminthes														
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-		
Oligochaeta														
Tubificidae	2	-	-	-	-	-	129	41	5	4	-	-		
Enchytraeidae	-	-	-	-	-	-	-	-	-	6	-	-		
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-		
Naididae	-	-	-	-	-	-	-	-	-	-	-	-		
Hirudinea														
Erpobdellidae	1	3	-	-	-	-	6	2	1	8	-	-		
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-		
Crustacea														
Asellus aquaticus	170	87	-	-	-	-	189	32	28	98	-	-		
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-		
Insecta														
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-		
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-		
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-		
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-		
Trichoptera - csl	-	-	-	-	-	-	-	-	-	-	-	-		
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-		
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-		
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-		
Chironomidae	24	-	-	-	-	-	-	-	4	-	-	-		
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-		
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-		
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-		
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-		
Arachnida														
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-		
Mollusca														
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-		
Limnaea pereger	47	17	-	-	-	-	9	5	3	6	-	-		
Physa fontinalis	22	33	-	-	-	-	47	9	6	-	-	-		
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-		
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-		
Pisidium sp.	18	11	-	-	-	-	127	9	12	6	-	-		
Number of animals	284	151	-	-	-	-	507	98	59	128	-	-		
Number of species	7	5	-	-	-	-	6	6	7	6	-	-		
Trent Biotic Index	4	3	-	-	-	-	4	4	4	4	-	-		
Chandler Score	152	109	-	-	-	-	110	139	166	128	-	-		
Diversity Index	1.79	1.68	-	-	-	-	2.03	2.02	2.19	1.32	-	-		
Physical and chemical data														
Temperature °C	16	15	-	-	-	-	9	10	15	13.5	-	-		
D.O., mg/l	-	-	-	-	-	-	-	-	3.6	7.2	-	-		
pH	-	-	-	-	-	-	-	-	7.1	7.2	-	-		
Width in metres	1.5-2.4	2.1-2.4	-	-	-	-	2.4	1.8-2.1	1.5-2.4	1.5	-	-		
Depth in cms	15-25	15-45	-	-	-	-	40-45	30-40	15-40	30	-	-		
Current, m/sec	0.9	0.6	-	-	-	-	0.3	0.9	0.9	0.6	-	-		
Colour	cls.	cls.	-	-	-	-	gr.	br.	cls.	cls.	-	-		
Clarity	cl.	cl.	-	-	-	-	t.	t.	cl.	cl.	-	-		
% Weed cover	<10	<10	-	-	-	-	-	-	10	10	-	-		
Weed types	P.p.	P.p.	-	-	-	-	P.p.	-	P.p.	P.p.	-	-		

Figures in brackets denote numbers of species
Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	23 SALTWELLS BROOK												TABLE 93
Year	1967 - 1970												
Month	6	9 ¹⁹⁶⁷	12	3	6	9 ¹⁹⁶⁸	12	3	6 ¹⁹⁶⁹	9	12	3 ¹⁹⁷⁰	
Platyhelminthes													
Turbellaria	4	-	-	-	-	23	-	31	-	-	51	-	
Oligochaeta													
Tubificidae	74	544	56	158	38	56	896	944	24	48	896	125	
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-	
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-	
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	
Hirudinea													
Erpobdellidae	3	15	23	51	4	7	53	73	1	-	23	19	
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-	
Crustacea													
Asellus aquaticus	78	896	321	319	411	362	1232	835	352	560	390	97	
Gammarus pulex	-	-	-	-	-	-	-	-	-	1	-	-	
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csl	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	
Chironomidae	4	2	24	-	5	8	-	-	-	64	-	-	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	
Tipulidae	-	-	-	-	-	-	22	-	-	-	16	-	
Other Diptera													
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	4400	23744	1080	9376	3360	6720	13920	4180	1208	9504	13328	3376	
Limnaea pereger	1	4	-	5	11	39	17	17	-	96	48	15	
Physa fontinalis	-	1	-	-	-	81	-	15	-	320	-	-	
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	14	288	88	36	96	728	272	88	80	192	656	192	
Number of animals	4578	25494	1592	9945	3925	8022	16412	6193	1665	10785	15408	3824	
Number of species	8	8	6	6	7	9	7	8	5	8	8	6	
Trent Biotic Index	4	4	4	4	4	4	4	4	3	5	4	4	
Chandler Score	177	157	99	102	133	181	164	152	87	157	197	100	
Diversity Index	0.30	0.46	1.42	0.40	0.77	0.92	0.85	1.43	1.11	0.77	0.82	0.74	
Physical and chemical data													
Temperature °C	6.5	12.5	4	4	12	14	12	8	15	17	11	8	
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	-	-	-	-	
Width in metres	1.2	1.2- 1.5	1.2	1.5- 1.8	0.9- 1.5	0.9- 1.5	1.5- 2.1	1.2- 1.5	1.5- 1.8	1.2- 2.1	0.9- 1.8	1.5- 2.4	
Depth in cms	7-15	7-15	7-25	7-25	7-15	7-15	7-25	7-15	7-15	7-25	7-15	7-25	
Current, m/sec	0.2	0.3	0.6	0.3	0.3	0.2	0.6	0.3	0.9	0.4	0.4	0.6	
Colour	cls.	cls.	cls.	cls.	cls.	cls.	cls.	cls.	cls.	cls.	cls.	cls.	
Clarity	cl.	cl.	cl.	cl.	cl.	cl.	cl.	cl.	cl.	cl.	cl.	cl.	
% Weed cover	95	90	10	50	75	50	25	50	10	90	20	50	
Weed types	Cl.	P.p.	P.p.	Cl.	Cl.	P.p.	P.p.	Cl.	Cl.	Cl.	P.p.	Cl.	
	P.p.	Cl.		P.p.	P.p.		Cl.	P.p.		P.p.	Cl.	Cal	

Figures in brackets denote numbers of species

Key to abbreviations on page 1

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	SALTWELLS BROOK												TABLE 94
Year	1970 - 1973												
Month	6	9 ¹⁹⁷⁰	12	3	6	9 ¹⁹⁷¹	12	3	6 ¹⁹⁷²	9	12	3 ¹⁹⁷³	
Platyhelminthes													
Turbellaria	-	-	18	8	-	6	17	17	10(2)	46(2)	3	2	
Oligochaeta													
Tubificidae	406	48	42	34	50	9	2	8	4	-	3	-	
Enchytraeidae	-	-	-	-	-	-	-	-	53	10	-	2	
Lumbricidae	-	-	-	1	-	-	-	2	1	-	1	2	
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	
Hirudinea													
Erpobdellidae	16	-	1	11	13	20	16	3	4	17	3	4	
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	1	1	
Crustacea													
Asellus aquaticus	106	80	-	15	180	14	115	109	320	12	10	3	
Gammarus pulex	-	2	-	5	5	15	9	2	13	2	2	12	
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csl	-	-	-	-	-	-	-	-	-	3	-	-	
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera larvae	-	-	-	-	-	-	3	-	10	1	-	-	
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	
Chironomidae	-	-	-	7	104	-	7	1	60	8	2	2	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	
Tipulidae	-	-	-	-	11(2)	-	3	1	1	2	-	-	
Other Diptera	-	-	-	-	-	2	1	-	-	-	-	-	
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	3746	3728	2340	532	2354	6912	815	596	1084	3549	379	379	
Limnaea pereger	8	3	12	2	14	2	4	3	1	10	-	5	
Physa fontinalis	25	-	-	1	1	1	3	-	2	3	-	-	
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	472	128	72	132	22	224	23	25	47	43	3	-	
Number of animals	4779	3989	2485	748	2754	7205	1018	767	1610	3706	407	412	
Number of species	7	6	6	11	11	10	13	11	15	14	10	10	
Trent Biotic Index	4	5	3	6	6	5	6	6	6	6	5	5	
Chandler Score	124	131	133	266	322	281	420	303	427	471	258	266	
Diversity Index	1.11	0.45	0.42	1.42	0.92	0.30	1.17	1.16	1.56	0.37	0.55	0.62	
Physical and chemical data													
Temperature °C	16	17	12	9	14	21	12	13	15.5	18	11	9.5	
D.O., mg/l	-	-	-	-	-	-	-	-	5.7	8.4	8.8	8.5	
pH	-	-	-	-	-	-	-	-	7.3	7.4	7.3	7.5	
Width in metres	0.9-2.1	1.2-1.5	1.5	1.2-2.1	1.5-2.1	0.9-1.8	0.9-1.5	1.5-2.4	1.5-1.8	1.2-1.5	1.5-1.8	1.2-1.8	
Depth in cms	7-15	15-25	7-25	7-15	25	7-15	15-30	30-40	15-25	15-25	15-25	15-25	
Current, m/sec	0.6	0.6	0.7	0.4	0.6	0.9	0.7	0.9	0.9	0.3	0.9	0.4	
Colour	cls.	cls.	cls.	cls.	cls.	cls.	cls.	gr.	cls.	cls.	gr.	br.	
Clarity	cl.	cl.	cl.	cl.	cl.	cl.	cl.	t.	cl.	cl.	t.	t.	
% Weed cover	90	75	75	75	100	75	75	-	50	75	-	-	
Weed types	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	-	Cl.	

Figures in brackets denote numbers of species
Key to abbreviations on page 1.

Year	1968 - 1970					
Month	1968 12	3	1969 6	9	12	1970 3
Platyhelminthes						
Turbellaria	11(2)	2	-	-	1	-
Oligochaeta						
Tubificidae	35	21	1	8	41	11
Enchytraeidae	=	-	-	-	-	-
Lumbricidae	1	-	-	-	-	-
Naididae	-	-	-	-	-	-
Hirudinea						
Erpobdellidae	2	1	2	1	1	1
Glossiphoniidae	2	-	1	-	1	-
Crustacea						
Asellus aquaticus	262	115	91	331	264	481
Gammarus pulex	8	4	2	23	2	-
Insecta						
Ephemeroptera	-	-	-	-	-	-
Baetis rhodani	-	-	-	-	-	-
Sialis spp.	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-
Trichoptera - csl	2	-	-	-	-	-
Trichoptera - csls	-	-	-	-	-	-
Coleoptera larvae	-	-	-	-	-	-
Coleoptera adults	-	-	-	-	-	-
Chironomidae	67	-	3	41(2)	17	1
C. riparius	-	-	-	-	-	-
Simuliidae	11	-	-	-	-	-
Tipulidae	40(2)	2	-	-	5	1
Other Diptera	-	-	-	-	-	-
Arachnida						
Hydracarina	-	-	-	-	-	-
Mollusca						
P. jenkinsi	1868	441	5	237	303	155
Limnaea pereger	21	21	8	130	29	37
Physa fontinalis	-	-	-	1	-	-
Ancylidae sp.	-	-	-	-	-	-
Sphaerium sp.	91	27	8	4	6	-
Pisidium sp.	-	-	-	53	103	51
Number of animals	2421	634	121	829	773	738
Number of species	16	9	9	11	12	8
Trent Biotic Index	7	5	5	6	6	4
Chandler Score	561	250	235	229	323	200
Diversity Index	1.33	1.44	1.46	2.20	2.13	1.48
Physical and chemical data						
Temperature °C	8	6	14	14	9	2
D.O., mg/l	-	-	-	-	-	-
pH	-	-	-	-	-	-
Width in metres	2.4	2.1- 2.4	2.1	2.1	1.2- 2.1	1.8- 2.4
Depth in cms	7.5	7.5	7-15	7.5	7-15	7.5
Current, m/sec	0.3	0.3	1.2	0.4	0.3	0.6
Colour	cls.	cls.	br.	cls.	cls.	cls.
Clarity	cl.	cl.	t.	cl.	cl.	cl.
% Weed cover	25	10	-	50	-	-
Weed types	Cl.	Cl.	-	Cl.	-	-

Figures in brackets denote numbers of species
key to abbreviations on page 1.

Station	51	BLACK BROOK												TABLE 96
Year	1970 - 1973													
Month	6	1970 9	12	3	6	1971 9	12	3	6	1972 9	12	1973 3		
Platyhelminthes														
Turbellaria	1	6	3(2)	-	-	-	-	-	-	1	-	-		
Oligochaeta														
Tubificidae	8	71	93	66	36	201	84	109	113	168	-	26		
Enchytraeidae	-	-	-	-	441	-	-	-	-	-	-	-		
Lumbricidae	-	1	2	-	-	-	-	-	-	-	-	-		
Naididae	-	-	-	-	-	-	-	-	-	-	-	-		
Hirudinea														
Erpobdellidae	2	-	2	-	-	4	-	1	-	-	1	1		
Glossiphoniidae	-	7	4	-	-	2	2	2	1	3	1	-		
Crustacea														
Asellus aquaticus	315	88	88	128	48	29	72	47	24	124	23	32		
Gammarus pulex	-	2	-	-	-	7	6	19	3	104	228	139		
Insecta														
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-		
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-		
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-		
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-		
Trichoptera - csl	-	-	2	-	-	-	1	-	-	-	5	-		
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-		
Coleoptera larvae	3	-	-	-	-	-	-	-	1	-	-	-		
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-		
Chironomidae	40(3)	26	78(2)	8	32	34	100	39	136	180(2)	2	60		
C. riparius	1	-	25	-	-	1	12	-	1	-	-	-		
Simuliidae	1	19	-	14	-	-	-	4	-	-	-	-		
Tipulidae	1	-	1	-	-	-	-	-	-	1	1	2(2)		
Other Diptera	-	4	-	-	-	-	-	-	-	-	1	-		
Arachnida														
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-		
Mollusca														
P. jenkinsi	246	445	698	-	-	9	-	-	74	200	8	9		
Limnaea pereger	28	15	1	5	-	-	-	1	-	1	1	-		
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-		
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-		
Sphaerium sp.	23	11	25	-	-	6	8	2	-	-	-	2		
Pisidium sp.	187	38	69	5	-	-	5	-	-	3	3	1		
Number of animals	856	733	1091	226	557	293	290	224	353	785	274	272		
Number of species	15	13	16	6	4	9	9	9	8	11	11	10		
Trent Biotic Index	5	6	6	4	3	5	5	5	5	6	6	5		
Chandler Score	386	393	428	170	60	211	253	259	202	268	422	321		
Diversity Index	2.19	2.06	1.90	1.64	1.06	1.62	2.17	2.01	1.92	2.37	1.04	1.99		
Physical and chemical data														
Temperature °C	15	15	8	4	11	14	5	7	14	11.5	6.5	5.5		
D.O.,mg/l	-	-	-	-	-	-	-	-	3.0	7.7	11.2	9.0		
pH	-	-	-	-	-	-	-	-	7.1	7.2	7.2	7.3		
Width in metres	1.8- 2.4	2.1- 2.4	1.8- 2.1	2.1	2.1	0.9- 1.8	1.8- 2.4	2.1- 2.4	2.4	1.8	1.5- 1.8	1.5- 2.1		
Depth in cms	7.5	5	7-15	7.5	7-15	7.5	7.5	7.5	7-15	5	7-25	5		
Current, m/sec	0.3	0.2	0.3	0.3	0.6	0.2	0.3	0.3	0.2	0.2	0.9	0.3		
Colour	cls.	cls.	br.	cls.	cls.	cls.	cls.	gr.	cls.	cls.	gr.	br.		
Clarity	cl.	cl.	t.	cl.	cl.	cl.	cl.	t.	cl.	cl.	t.	t.		
% Weed cover	25	10	-	-	-	-	-	-	10	10	-	-		
Weed types	Cl.	Cl.	m	-	-	-	-	-	Cl.	Cl.	-	-		

Figures in brackets denote numbers of species
Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	52	BLACK BROOK						TABLE 97
Year	1968 - 1970							
Month	1968	1968	1968	1969	1969	1970		
	12	3	6	9	12	3		
Platyhelminthes								
Turbellaria	22(2)	-	-	4	6	3		
Oligochaeta								
Tubificidae	32	80	27	-	12	34		
Enchytraeidae	-	-	-	-	-	-		
Lumbricidae	-	-	1	-	-	-		
Naididae	-	-	-	-	-	-		
Hirudinea								
Erpobdellidae	29	9	8	21	5	5		
Glossiphoniidae	3	1	-	7	5	8		
Crustacea								
Asellus aquaticus	89	52	95	80	65	194		
Gammarus pulex	-	3	3	13	-	-		
Insecta								
Ephemeroptera	-	-	-	-	-	-		
Baetis rhodani	-	-	-	-	-	-		
Sialis spp.	-	-	-	-	-	-		
Plecoptera	-	-	-	-	-	-		
Trichoptera - csc	-	-	-	1	-	-		
Trichoptera - csls	-	-	-	-	-	-		
Coleoptera larvae	-	-	-	-	-	-		
Coleoptera adults	-	-	-	-	-	-		
Chironomidae	4	1	-	6	10	1		
C. riparius	-	-	-	-	-	-		
Simuliidae	-	-	-	-	-	-		
Tipulidae	11	2	-	-	6(2)	4(4)		
Other Diptera	-	-	-	-	-	-		
Arachnida								
Hydracarina	-	-	-	-	-	-		
Mollusca								
P. jenkinsi	1077	396	172	1649	738	582		
Limnaea pereger	3	1	11	4	1	6		
Physa fontinalis	-	-	-	-	-	-		
Ancylidae sp.	-	-	-	-	-	-		
Sphaerium sp.	14	34	9	-	7	4		
Pisidium sp.	102	166	48	22	92	55		
Number of animals	1386	745	374	1807	947	896		
Number of species	12	11	9	10	12	14		
Trent Biotic Index	5	6	5	6	5	5		
Chandler Score	318	291	208	300	346	463		
Diversity Index	1.33	1.95	2.14	0.62	1.26	1.59		
Physical and chemical data								
Temperature °C	11	6	14	16	9	5		
D.O., mg/l	-	-	-	-	-	-		
pH	-	-	-	-	-	-		
Width in metres	2.4-	1.5-	1.8-	1.8-	1.8-	1.8-		
	4.5	4.5	4.5	4.5	4.5	4.5		
Depth in cms	7.5	5	7.5	7.5	7-5	7-15		
Current, m/sec	0.4	0.4	1.2	0.4	0.3	0.6		
Colour	cls.	cls.	br.	cls.	cls.	cls.		
Clarity	cl.	cl.	t.	cl.	cl.	cl.		
% Weed cover	25	20	-	90	25	50		
Weed types	Cl.	Cl.	-	Cl.	Cl.	Cl.		

Figures in brackets denote numbers of species
Key to abbreviations on page 1.

Station	52. BLACK BROOK												TABLE 98
Year	1970 - 1973												
Month	6	1970 9	12	3	1971 6	9	12	3	1972 6	9	12	1973 3	
atyhelminthes													
turbellaria	25	64	1	6	3	16(2)	3	-	7	11	1	4	
ligochaeta													
ubificidae	-	112	1	-	101	-	7	-	2	-	-	7	
nchytraeidae	-	-	-	-	-	1	-	-	27	5	-	-	
umbricidae	-	-	1	2	-	-	-	-	-	2	-	1	
aididae	-	-	-	-	-	-	-	-	-	-	-	-	
rudinea													
rpobdellidae	8	64	2	5	5	23	4	-	3	14	6	9	
lossiphoniidae	1	46	2	14	4	34	3	1	3	28	3	13	
ustacea													
sellus aquaticus	371	80	18	316	171	46	179	13	238	35	43	26	
ammarus pulex	1	3	-	7	12	31	13	2	163	91	45	125	
secta													
phemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	
aetis rhodani	-	-	-	-	2	-	-	-	-	-	-	1	
ialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
lecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
richoptera - csd	-	-	-	-	-	-	-	-	1	-	4	10	
richoptera - csis	-	-	-	-	-	-	-	-	-	-	-	-	
oleoptera larvae	2	46	-	-	8(2)	4	1	-	21(2)	2	-	-	
oleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	
nironomidae	-	16	20(2)	5	111(2)	-	15	1	263(2)	6	5	5	
. riparius	-	-	9	-	-	-	-	-	-	-	-	-	
imuliidae	-	-	-	6	33	-	-	-	-	8	-	1	
ipulidae	-	-	-	-	3(2)	-	-	-	7	3	2	-	
ther Diptera	-	-	1	-	-	3	1	-	-	-	-	-	
achnida													
dracarina	-	-	-	-	-	-	-	-	-	-	-	-	
lusca													
. jenkinsi	6188	3536	341	9	481	145	75	10	1144	1854	114	116	
imnaea pereger	-	-	-	5	4	-	-	1	3	-	-	-	
aysa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-	
cyllidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	
haerium sp.	277	752	7	16	11	12	5	-	6	4	-	7	
sidium sp.	928	432	16	65	47	7	5	-	9	13	3	12	
umber of animals	7801	5151	419	456	996	322	311	28	1897	2076	226	338	
umber of species	9	11	13	12	18	12	12	6	17	14	10	15	
nt Biotic Index	5	6	5	6	7	6	6	5	7	6	5	7	
andler Score	232	260	319	337	579	361	324	170	537	446	347	488	
ersity Index	1.05	1.60	1.20	1.70	2.38	2.53	1.93	1.83	1.86	0.78	2.04	2.48	
ysical and chemical data													
emperature °C	16	17	10	7	13	20	10	11	15.5	17.5	9	8	
O.,mg/l	-	-	-	-	-	-	-	-	6.0	8.7	9.9	8.7	
	-	-	-	-	-	-	-	-	7.3	7.4	7.3	7.5	
depth in metres	1.8- 4.5	1.8- 4.5	2.1- 3.6	1.8- 3.6	1.8- 3.6	1.2- 3.6	1.8- 4.5	1.5- 2.1	1.2- 2.4	1.5- 2.1	2.7- 3.6	1.5- 2.4	
pth in cms	7-15	7.5	7-15	7-15	7-15	7.5	7.5	15-30	7-15	7.5	15-25	15	
urrent, m/sec	0.6	0.4	0.3	0.6	0.6	0.6	0.9	0.9	0.9	0.6	0.6	0.3	
lour	cls.	cls.	br.	cls.	cls.	cls.	cls.	gr.	cls.	cls.	gr.	br.	
arity	cl.	cl.	t.	cl.	cl.	cl.	cl.	t.	cl.	cl.	t.	t.	
eed cover	100	90	-	50	50	75	50	-	90	50	-	-	
d types	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	-	Cl.	Cl.	-	-	

ures in brackets denote numbers of species
to abbreviations on page 1.

Station	25 LUDGBRIDGE BROOK												TABLE 99
Year	1967 - 1970												
Month	6	9	12	3	6	12	3	6	9	12	3	1970	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta													
Tubificidae	6	-	-	-	-	-	-	4	1	1	-	-	-
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-	-
Lumbricidae	-	-	-	-	1	-	-	-	-	-	-	-	-
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	-
Hirudinea													
Erpobdellidae	1	2	-	2	1	9	2	1	1	1	1	-	-
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-	-
Crustacea													
Asellus aquaticus	-	-	-	-	-	-	-	-	-	-	-	-	-
Gammarus pulex	322	247	262	109	130	400	575	322	73	172	223	315	-
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	-
Baetis rhodani	-	38	40	4	3	3	120	222	-	86	51	40	-
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csd	-	1	-	-	1	2	-	1	1	-	5	3	-
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	-
Chironomidae	8	2	2	-	-	-	-	-	-	4	-	4	-
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	-
Tipulidae	-	-	-	-	-	-	-	1	1	-	-	-	-
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	-
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca													
P. jenkinsi	5	6	5	-	-	7	38	-	9	2	8	-	-
Limnaea pereger	-	-	-	-	-	-	-	-	-	-	-	-	-
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-	-
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	1	1	1	-	-	-	1	-	-	-	-	-	-
Number of animals	343	297	310	115	136	421	736	547	89	266	289	362	-
Number of species	6	7	5	3	5	5	5	5	6	6	6	4	-
Trent Biotic Index	5	6	4	4	5	5	4	5	5	5	6	5	-
Chandler Score	165	273	174	110	210	209	171	251	245	189	244	193	-
Diversity Index	0.45	0.86	0.75	0.34	0.33	0.37	0.96	1.02	0.98	1.13	1.03	0.65	-
Physical and chemical data													
Temperature °C	7	12.5	4	4	12	13	8	6	11	13	8	5	-
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-
pH	-	-	-	-	-	-	-	-	-	-	-	-	-
Width in metres	1.2- 1.8	1.8	1.2- 2.1	0.9- 1.8	1.5- 3.0	1.8- 2.1	1.5- 3.0	1.5- 1.8	1.2- 2.1	1.5- 2.1	1.5- 1.8	1.2- 3.0	-
Depth in cms	5	5	5	5	5	5	5	5	7.5	5	7.5	5	-
Current, m/sec	0.1	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.4	0.3	-
Colour	cls.	cls.	cls.	cls.	cls.	cls.	cls.	cls.	cls.	cls.	cls.	cls.	-
Clarity	cl.	cl.	cl.	cl.	cl.	cl.	cl.	cl.	cl.	cl.	cl.	cl.	-
% Weed cover	-	-	-	-	-	-	-	-	-	-	-	-	-
Weed types	-	-	-	-	-	-	-	-	-	-	-	-	-

figures in brackets denote numbers of species
key to abbreviations on page 1.

Station	LUDGBRIDGE BROOK												TABLE 100
Year	1970 - 1973												
Month	6	1970 9	12	3	1971 6	9	12	3	1972 6	9	12	1973 3	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta	-	-	-	-	-	-	-	-	-	-	-	-	-
Tubificidae	40	-	-	-	2	-	-	-	-	-	-	-	-
Enchytraeidae	-	-	-	-	-	-	-	-	4	-	-	-	-
Lumbricidae	-	-	-	-	1	-	-	-	1	-	-	-	-
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	-
Hirudinea													
Erpobdellidae	-	1	2	-	2	-	1	2	-	4	1	-	-
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-	-
Crustacea													
Asellus aquaticus	-	-	-	-	-	-	-	-	-	-	-	-	-
Gammarus pulex	348	174	379	212	569	913	374	349	512	1261	186	217	-
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	-
Baetis rhodani	-	76	6	177	26	8	-	107	41	19	-	6	-
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csl	-	1	2	1	2	-	2	-	-	-	-	1	-
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	-
Chironomidae	256(4)	3	1	6	14	-	-	3	9	-	-	-	-
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	-	-	-	-	-	-	-	3	-	-	-	-	-
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	-
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca													
P. jenkinsi	3	45	11	-	14	8	8	-	-	-	-	-	-
Limnaea pereger	-	-	-	-	-	-	-	-	-	-	-	-	-
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-	-
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	-	1	-	-	-	-	-	-	-	-	-	-	-
Number of animals													
Number of animals	647	301	401	396	630	929	385	464	567	1284	187	224	-
Number of species	7	7	6	4	8	3	4	5	5	3	2	3	-
Trent Biotic Index													
Trent Biotic Index	5	6	6	5	6	4	4	4	4	4	4	5	-
Chandler Score													
Chandler Score	96	269	241	192	280	114	167	202	158	108	64	161	-
Diversity Index													
Diversity Index	1.29	1.51	0.40	1.11	0.66	0.14	0.21	0.92	0.56	0.14	0.04	0.21	-
Physical and chemical data													
Temperature °C	14	15	9	4	10	14	6	8	11	16.5	7.5	6.5	-
D.O., mg/l	-	-	-	-	-	-	-	-	4.1	8.9	11.0	9.2	-
pH	-	-	-	-	-	-	-	-	7.1	7.3	7.1	7.4	-
Width in metres	1.2-1.5	0.9-1.5	1.5	1.8	1.5-2.1	1.5-1.8	1.5-1.8	1.5-1.8	1.5-2.1	1.2-2.1	1.5	1.2-1.5	-
Depth in cms	5	5	5	7.5	7.5	5	7.5	7.5	7-15	5	15	7.5	-
Current, m/sec	0.3	0.2	0.6	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.9	0.3	-
Colour	cls.	cls.	cls.	cls.	cls.	cls.	cls.	cls.	cls.	cls.	br.	br.	-
Clarity	cl.	cl.	cl.	cl.	cl.	cl.	cl.	cl.	cl.	cl.	t.	t.	-
Weed cover	-	-	-	-	-	-	-	-	-	-	-	-	-
Weed types	-	-	-	-	-	-	-	-	-	-	-	-	-

figures in brackets denote numbers of species
 key to abbreviations on page 1.

Station	26 WORDSLEY BROOK												TABLE 101
Year	1967 - 1970												
Month	6	1967 9	12	3	6	1968 9	12	3	1969 6	9	12	1970 3	
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	
Oligochaeta													
Tubificidae	-	9	2	1	-	-	-	-	-	-	-	-	28
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-	-
Lumbricidae	-	-	-	-	1	-	-	-	-	-	-	-	-
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	-
Hirudinea													
Erpobdellidae	-	-	-	-	-	-	-	-	-	-	-	-	-
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-	-
Crustacea													
Asellus aquaticus	-	-	2	5	21	116	152	-	-	-	-	2	
Gammarus pulex	-	-	-	-	-	-	66	-	-	-	-	-	
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csc	-	-	-	-	-	-	1	-	-	-	-	-	
Trichoptera - csls	-	-	-	-	-	6	2	-	-	-	-	-	
Coleoptera larvae	-	-	-	1	1	1	-	-	-	-	-	-	
Coleoptera adults	-	-	-	-	-	7	1	-	-	-	-	-	
Chironomidae	-	3	2	1	21	8	6	-	-	-	-	-	
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	46(3)
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	369
Tipulidae	-	-	1	-	4	-	1	-	-	-	-	-	
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	
Mollusca													
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-	
Limnaea pereger	-	-	1	3	91	25	20	-	-	-	-	-	
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-	
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Number of animals	0	12	8	11	139	163	249	0	0	0	0	445	
Number of species	0	2	5	5	6	6	8	0	0	0	0	6	
Trent Biotic Index	0	2	3	3	4	5	6	0	0	0	0	3	
Chandler Score	0	61	165	151	197	202	324	0	0	0	0	63	
Diversity Index	0	0.81	2.25	1.97	1.47	1.39	1.51	0	0	0	0	0.84	
Physical and chemical data													
Temperature °C	8	12.5	6	4	12	14	12	8	11	14	10	9	
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	-	-	-	-	
Width in metres	1.5- 1.8	1.8- 2.1	0.6- 1.2	0.6- 1.8	0.9 1.2	0.6 7.5	0.3 7-15	1.5 7.5	1.5 7.5	1.5 7.5	0.6- 1.2	0.6- 1.8	
Depth in cms	5	5	5	5	5	7.5	7-15	7.5	7.5	7.5	7-15	7.5	
Current, m/sec	0.2	0.1	0.3	0.3	0.2	0.2	0.6	0.3	0.4	0.3	0.3	0.3	
Colour	cls.	cls.	cls.	cls.	cls.	cls.	cls.	bl.	bl.	cls.	cls.	cls.	
Clarity	cl.	cl.	cl.	cl.	cl.	cl.	cl.	t.	cl.	cl.	cl.	cl.	
% Weed cover	75	20	-	75	20	90	50	-	-	-	-	5	
Weed types	bl-gr.bl-gr	-	Cl.	Cl.	S	S	gr.	-	-	-	-	St.	

Figures in brackets denote numbers of species
Key to abbreviations on page 1.

Station	26		WORDSLEY BROOK						TABLE 102					
Year	1970 - 1973		1970		1971		1972		1973		1973			
Month	6	9	12	3	6	9	12	3	6	9	12	3		
atyhelminthes														
urbellaria	-	-	-	-	-	-	-	-	-	-	-	3		
igochaeta														
ubificidae	3	4	-	20	45	-	-	388	58	-	72	81		
nchytracidae	-	-	-	-	-	-	-	-	45	-	-	-		
umbricidae	-	-	-	-	-	-	-	-	-	-	3	-		
ididae	-	-	-	-	-	-	-	-	-	-	-	-		
rudinea														
ropobdellidae	-	-	-	-	-	-	-	1	-	-	-	-		
ossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-		
astacea														
ellus aquaticus	61	300	-	52	-	-	-	70	129	-	952	79		
ummarus pulex	-	10	-	-	4	-	-	-	6	-	2	-		
ecta														
hemeroptera	-	-	-	-	-	-	-	-	-	-	-	-		
etis rhodani	-	-	-	-	-	-	-	-	-	-	-	-		
alis spp.	-	-	-	-	-	-	-	-	-	-	-	-		
ecoptera	-	-	-	-	-	-	-	-	-	-	-	-		
ichoptera - csd	-	-	-	-	-	-	-	-	-	-	-	-		
ichoptera - csls	1	2	-	-	-	-	-	-	-	-	-	-		
leoptera larvae	-	1	-	-	-	-	-	-	-	-	-	-		
leoptera adults	-	2	-	-	-	-	-	-	-	-	-	-		
ironomidae	946(3)	83(3)	-	2	22	-	-	96	95(2)	-	9	11		
riparius	507	1	-	-	-	-	-	10	5	-	16	-		
muliidae	-	-	-	-	-	-	-	-	-	-	-	2		
pulidae	-	-	-	-	-	-	-	-	-	-	-	-		
er Diptera	-	-	-	-	-	-	-	-	-	-	-	-		
chnida														
dracarina	-	-	-	-	-	-	-	-	-	-	-	-		
lusca														
jenkinsi	-	78	-	-	-	-	-	14	-	-	-	10		
maea pereger	8	140	-	12	13	-	-	3	-	-	-	-		
ysa fontinalis	-	-	-	-	-	-	-	5	8	-	-	1		
ylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-		
haerium sp.	-	-	-	-	-	-	-	-	-	-	-	-		
sidium sp.	-	-	-	-	-	-	-	-	-	-	-	-		
ber of animals	1526	621	-	86	84	-	-	587	346	-	1054	186		
ber of species	8	12	-	4	4	-	-	8	8	-	6	7		
at Biotic Index	5	6	-	3	4	-	-	4	5	-	5	4		
ndler Score	117	284	-	80	99	-	-	164	141	-	121	194		
rsity Index	1.20	1.98	-	1.45	1.61	-	-	1.53	2.17	-	0.58	1.72		
ical and chemical data														
emperature °C	16	16	-	9	12	-	-	10	14	-	12	11		
0.,mg/l	-	-	-	-	-	-	-	-	1.9	-	6.9	6.4		
	-	-	-	-	-	-	-	-	6	-	7.2	7.1		
th in metres	0.3-	0.3-	-	1.5	0.9-	-	-	0.9-	0.3-	-	0.6-	0.9-		
	1.5	0.9			2.1			1.5	0.9		1.5	1.2		
th in cms	7.5	7-25	-	7.5	7-15	-	-	7-15	15-25	-	15-25	7.5		
rent, m/sec	0.2	0.2	-	0.3	0.1	-	-	0.3	0.2	-	0.3	0.3		
our	cls.	cls.	-	cls.	cls.	-	-	cls.	cls.	-	cls.	cls.		
urity	cl.	cl.	-	cl.	cl.	-	-	cl.	cl.	-	cl.	cl.		
ed cover	-	95	-	10	75	-	-	-	75	-	-	-		
types	-	S	-	S	Cl	-	-	-	S	-	-	-		
					S				St.					

res in brackets denote numbers of species
to abbreviations on page 1.

Station	27 WORDSLEY BROOK												TABLE 103
Year	1967 - 1970												
Month	1967			1968				1969			1970		
	6	9	12	3	6	9	12	3	6	9	12	3	
atyhelminthes													
urbellaria	-	-	-	-	-	-	-	-	-	-	-	-	1
igochaeta													
ibificidae	-	-	-	-	-	-	-	-	-	-	-	-	16
nchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-	-
umbricidae	-	-	-	-	-	-	-	-	-	-	-	-	-
ididae	-	-	-	-	-	-	-	-	-	-	-	-	-
rudinea													
opodellidae	-	-	-	-	-	-	2	-	-	-	-	-	-
ossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-	-
astacea													
ellus aquaticus	-	-	-	-	-	-	12	-	-	-	-	-	10
ummarus pulex	-	-	-	-	-	-	-	-	-	-	-	-	-
secta													
hemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	-
etis rhodani	-	-	-	-	-	-	-	-	-	-	-	-	-
alis spp.	-	-	-	-	-	-	-	-	-	-	-	-	-
ecoptera	-	-	-	-	-	-	-	-	-	-	-	-	-
ichoptera - csd	-	-	-	-	-	-	-	-	-	-	-	-	-
ichoptera - csis	-	-	-	-	-	-	-	-	-	-	-	-	-
leoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	-
leoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	-
ironomidae	-	-	-	-	-	-	-	-	-	-	-	-	4(2)
riparius	-	-	-	-	-	-	-	-	-	-	-	-	3
imuliidae	-	-	-	-	-	-	-	-	-	-	-	-	-
ipulidae	-	-	-	-	-	-	-	-	-	-	-	-	-
ther Diptera	-	-	-	-	-	-	-	-	-	-	-	-	-
achnida													
dracarina	-	-	-	-	-	-	-	-	-	-	-	-	-
lusca													
jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-	-
imnaea pereger	-	-	-	-	-	-	1	-	-	-	-	-	8
ysa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-	-
ocylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	-
phaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	-
sidium sp.	-	-	-	-	-	-	-	-	-	-	-	-	-
umber of animals	0	0	0	0	0	0	15	0	0	0	0	0	41
umber of species	0	0	0	0	0	0	3	0	0	0	0	0	6
ent Biotic Index	0	0	0	0	0	0	3	0	0	0	0	0	3
andler Score	0	0	0	0	0	0	72	0	0	0	0	0	105
ersivity Index	0	0	0	0	0	0	0.90	0	0	0	0	0	2.09
ysical and chemical data													
emperature °C	8	12.5	6	5	12	16	14	12	14	16	8	9	
O.,mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-
1	-	-	-	-	-	-	-	-	-	-	-	-	-
depth in metres	1.5- 1.8	1.8- 2.4	0.9- 1.2	1.2- 1.8	1.5- 1.8	1.2- 1.5	0.3- 1.2	1.2- 1.5	1.5	0.6	0.6- 0.9	0.6	
epth in cms	7.5	5	7.5	5	5	5	7.5	7.5	7.5	7-15	7-15	7-25	
urrent, m/sec	0.2	0.2	0.3	0.3	0.2	0.2	0.6	0.3	0.4	0.4	0.4	0.6	
lour	cls.	cls.	cls.	cls.	cls.	cls.	cls.	bl.	cls.	gr.	gr.	br.	
ararity	cl.	cl.	cl.	cl.	cl.	cl.	cl.	t.	cl.	t.	t.	tr.	
eed cover	-	-	-	-	-	-	-	-	-	-	-	-	-
d types	-	-	-	-	-	-	-	-	-	-	-	-	-

ures in brackets denote numbers of species
to abbreviations on page 1.

27 WORDSLEY BROOK													TABLE 104
Station	1970 - 1973												
Year	1970 - 1973												
Month	6	9	12	3	6	9	12	3	6	9	12	3	1973
Platyhelminthes													
Turbellaria	-	-	-	-	1	-	1	-	5(2)	-	-	-	-
Oligochaeta													
Tubificidae	-	6	12	8	2	-	6	5	11	1	-	-	2
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-	-
Lumbricidae	1	-	-	1	-	-	-	-	-	-	-	-	-
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	-
Hirudinea													
Erpobdellidae	1	2	-	-	-	1	-	-	-	-	-	-	-
Glossiphoniidae	-	-	-	-	-	-	1	-	-	-	-	-	-
Crustacea													
Asellus aquaticus	89	186	507	8	33	77	90	414	72	89	51	150	
Gammarus pulex	-	9	1	-	-	9	1	-	-	2	1	-	-
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	-
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-	-
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csd	1	-	-	-	-	-	-	-	-	-	1	-	-
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	-
Chironomidae	227(2)	-	-	-	-	3	1	4	-	-	-	-	6
C. riparius	42	-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-	-
Tipulidae	-	-	-	-	-	-	1	-	-	-	-	-	-
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-	-
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca													
P. jenkinsi	-	-	-	-	-	-	4	878	24	-	1	27	
Limnaea pereger	22	35	6	3	92	-	23	21	4	-	-	2	
Physa fontinalis	-	1	-	-	-	-	-	-	-	-	-	-	
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Pisidium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Number of animals	384	239	526	20	128	90	128	1322	116	92	54	187	
Number of species	8	6	4	4	4	4	9	5	6	3	4	5	
Trent Biotic Index	5	5	4	3	3	4	5	3	4	4	4	3	
Chandler Score	190	147	91	93	92	103	274	96	148	76	159	112	
Diversity Index	1.59	1.09	0.26	1.68	0.99	0.76	1.43	1.06	1.62	0.23	0.39	0.95	
Physical and chemical data													
Temperature °C	16	16	12	10	13	16	11	9	14	21.5	11	11	
D.O., mg/l	-	-	-	-	-	-	-	-	5.4	5.3	4.6	7.2	
pH	-	-	-	-	-	-	-	-	6	7.0	7.0	7.1	
Width in metres	0.3	0.3	0.3	0.6	0.6	0.3	0.3	0.6	0.3	0.6	0.6	0.6	
Depth in cms	7-25	15-25	25	7-25	15-25	7-15	30	25-30	7-25	15-25	25	15-25	
Current, m/sec	0.3	0.6	0.6	0.6	0.3	0.6	0.6	0.4	0.3	0.3	0.6	0.3	
Colour	cls.	cls.	gr.	cls.	br.	cls.	cls.	gr.	cls.	cls.	cls.	cls.	
Clarity	cl.	cl.	t.	cl.	t.	cl.	cl.	tr.	cl.	cl.	cl.	cl.	
Weed cover	-	-	-	-	-	-	-	-	-	-	-	-	
Weed types	-	S	-	-	-	-	-	-	-	-	-	-	

Figures in brackets denote numbers of species
 Key to abbreviations on page 1.

Invertebrates found in approximately 1 m ² of riffle												
Station	28 WORDSLEY BROOK						TABLE 105					
Year	1967 - 1970											
Month	1967				1968				1969		1970	
	6	9	12	3	6	9	12	3	6	9	12	3
Platyhelminthes												
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta												
Tubificidae	-	4	-	-	-	6	2	-	6	-	5	9
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-
Lumbricidae	-	-	-	-	-	1	1	-	-	-	1	-
Naididae	-	-	-	-	-	-	-	-	-	-	-	-
Hirudinea												
Erpobdellidae	3	-	-	-	-	1	-	-	-	-	1	-
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-
Crustacea												
Asellus aquaticus	-	-	-	-	-	-	-	-	-	-	-	-
Gammarus pulex	-	-	-	-	-	3	1	-	-	-	-	-
Insecta												
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csd	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-
Chironomidae	-	-	-	-	3	9	-	-	-	-	2	-
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-
Arachnida												
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-
Limnaea pereger	-	-	-	-	-	-	-	-	-	-	-	-
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	-	-	-	-	-	-	-	-	-	-	-	-
Number of animals	3	4	-	-	3	20	4	-	6	0	9	9
Number of species	1	1	-	-	1	5	3	-	1	0	4	1
Trent Biotic Index	1	1	-	-	1	4	4	-	1	0	2	1
Chandler Score	20	18	-	-	25	107	87	-	18	0	95	18
Diversity Index	0	0	-	-	0	1.88	1.50	-	0	0	1.67	0
Physical and chemical data												
Temperature °C	7	12.5	-	-	12	15	10	-	12	15	8	6
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	-
pH	-	-	-	-	-	-	-	-	-	-	-	-
Width in metres	1.5-1.8	1.2-1.5	-	-	1.5	1.5	1.5	-	1.5-1.8	1.8	1.5	1.2
Depth in cms	7-15	7-15	-	-	7-15	7-15	7-15	-	15-25	7.5	7-15	25
Current, m/sec	0.2	0.2	-	-	0.2	0.2	0.3	-	0.4	0.3	0.4	0.3
Colour	br.	cls.	-	-	cls.	cls.	cls.	-	gr.	br.	br.	cls.
Clarity	t.	cl.	-	-	cl.	cl.	cl.	-	t.	t.	t.	cl.
% Weed cover	-	-	-	-	-	-	-	-	-	-	-	-
Weed types	-	-	-	-	-	-	-	-	-	-	-	-

Figures in brackets denote numbers of species
 Key to abbreviations on page 1.

Station	28 WORDSLEY BROOK											
Year	1970 - 1973											
Month	1970			1971			1972			1973		
	6	9	12	3	6	9	12	3	6	9	12	3
Platyhelminthes												
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-
Ligochaeta												
Tubificidae	7	4	14	4	25	8	-	5	50	-	5	1
Enchytraeidae	-	-	-	-	-	-	-	-	-	1	-	22
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-
Laididae	-	-	-	-	-	-	-	-	-	-	-	-
Arudinea												
Crpobdellidae	-	-	-	-	-	1	-	1	-	6	-	1
Glossiphoniidae	-	-	-	-	-	-	-	1	-	-	-	-
Isopoda												
Asellus aquaticus	-	-	5	12	5	7	12	19	50	121	68	65
Ammarus pulex	-	-	4	5	1	4	-	2	-	3	2	10
Insecta												
Phlebotomera	-	-	-	-	-	-	-	-	-	-	-	-
Chaetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-
Chalcids spp.	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-
Hironomidae	6(2)	7	4	4	-	2	-	4	2	13	2	5
H. riparius	-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-
Pipulidae	-	-	-	-	-	-	-	-	-	-	-	-
Other Diptera	-	-	-	-	-	-	-	1	-	-	1	-
Achnida												
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-
Alnus												
A. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-
Limnaca pereger	-	2	1	6	-	15	1	5	2	3	1	2
Lymnaea fontinalis	-	-	-	-	-	-	-	-	-	-	-	-
Encylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-
Phacrium sp.	-	-	-	-	-	-	-	-	-	-	-	-
Isidium sp.	-	-	-	-	-	-	-	-	1	-	-	-
Number of animals	13	13	28	31	31	37	13	38	105	147	79	106
Number of species	3	3	5	5	3	6	2	8	5	6	6	7
Percent Biotic Index	2	2	4	4	4	5	3	5	3	5	5	5
Shannon Score	43	73	130	129	75	157	48	198	119	143	154	171
Diversity Index	1.38	1.42	1.91	2.17	0.83	2.17	0.39	2.25	1.30	1.00	0.86	1.66
Physical and chemical data												
Temperature °C	16	16	10	8	12	16	9	8	13	18.5	9	11
D.O., mg/l	-	-	-	-	-	-	-	-	7.9	7.7	8.4	7.3
pH	-	-	-	-	-	-	-	-	6	7.7	7.6	7.6
Width in metres	1.5	1.2-1.5	1.5	1.5	1.5	1.5	1.2-1.5	1.8	1.2-1.5	1.2-1.5	1.2-1.5	1.2
Depth in cms	7-15	7.5	7-15	7-15	7-15	7.5	7-15	25	7-15	7-15	25	25
Current, m/sec	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3
Flour	cls.	cls.	cls.	cls.	br.	cls.	cls.	gr.	cls.	cls.	cls.	br.
Clarity	cl.	cl.	cl.	cl.	t.	cl.	cl.	t.	cl.	cl.	cl.	t.
Feed cover	-	10	-	-	-	10	-	-	5	5	-	-
Feed types	-	St.	-	-	-	Cl.	-	-	Cl.	Cl.	-	-
						gr.						

Figures in brackets denote numbers of species
to abbreviations on page 1.

Station 55 DAWLEY BROOK												
TABLE 107												
Year	1970 - 1973											
Month	6	9 ¹⁹⁷⁰	12	3	1971 6	9	12	3	1972 6	9	12	1973 3
Platyhelminthes												
Turbellaria	-	-	1	-	-	-	-	-	-	-	-	-
Oligochaeta												
Tubificidae	-	3	9	-	5	-	-	-	-	-	-	-
Enchytraeidae	-	-	-	-	-	-	-	-	-	5	-	-
Lumbricidae	-	-	-	-	-	-	-	-	-	-	-	-
Naididae	-	-	-	-	-	-	-	-	-	-	-	-
Hirudinea												
Erpobdellidae	1	-	2	5	-	4	1	3	1	-	6	1
Glossiphoniidae	-	7	3	-	2	-	2	-	-	-	-	-
Crustacea												
Asellus aquaticus	-	-	-	-	-	-	-	-	-	-	-	-
Gammarus pulex	284	510	467	414	515	512	381	715	661	2011	532	140
Insecta												
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csd	-	3	1	3	1	-	2	2	-	-	7	-
Trichoptera - csls	3(2)	3	-	2	-	-	-	-	-	-	-	-
Coleoptera larvae	2	-	-	-	-	-	-	-	-	-	-	-
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-
Chironomidae	5	1	-	1	1	-	-	-	4	2	-	-
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-
Arachnida												
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
P. jenkinsi	18	17	-	-	-	-	-	-	-	13	-	-
Limnaea pereger	-	1	-	-	-	2	-	-	-	-	-	1
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	-	1	-	-	-	-	-	-	-	-	-	-
Number of animals	313	546	483	425	524	518	386	720	666	2031	545	142
Number of species	7	9	6	5	5	3	4	3	3	4	3	3
Shannon Biotic Index	6	6	5	5	4	4	4	4	4	4	4	4
Shannon Score	457	310	215	206	187	90	165	135	89	113	140	94
Diversity Index	0.60	0.50	0.26	0.21	0.15	0.10	0.11	0.06	0.06	0.09	0.18	0.12
Physical and chemical data												
Temperature °C	13	14	8	6	11	16	6	8	12	11	7	7.5
D.O., mg/l	-	-	-	-	-	-	-	-	7.8	9.4	11.1	8.9
pH	-	-	-	-	-	-	-	-	7.0	7.6	7.5	7.8
Width in metres	0.9	1-1.2	1-1.5	1-1.5	0.6-1.2	1-1.5	1.2-1.5	1.5-1.8	1.2-1.5	0.6-1.5	1-1.5	1-1.5
Depth in cms	7.5	5	7.5	7.5	5	5	7.5	7-15	7.5	5-7.5	7.5	7.5
Current, m/sec	0.3	0.6	0.9	0.6	0.4	0.2	0.6	0.9	0.4	0.3	0.9	0.3
Colour	cls.	cls.	cls.	cls.	cls.	cls.	cls.	br.	cls.	cls.	cls.	cls.
Clarity	cl.	cl.	cl.	cl.	cl.	cl.	cl.	t.	cl.	cl.	cl.	cl.
Weed cover	-	-	5	-	-	-	-	-	-	-	-	-
Weed types	-	-	m	-	-	-	-	-	-	-	-	-

Figures in brackets denote numbers of species
 Key to abbreviations on page 1.

Station 56 DAWLEY BROOK														TABLE 108								
Year	1970 - 1973																					
Month	1970												1971				1972				1973	
	6	9	12	3	6	9	12	3	6	9	12	3	6	9	12	3						
Platyhelminthes																						
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Oligochaeta																						
Tubificidae	75	147	183	111	79	147	126	237	-	16	73	76										
Enchytraeidae	12	-	-	-	149	-	-	-	251	97	-	-										
Lumbricidae	-	-	-	-	1	-	-	-	-	1	-	-										
Naididae	-	-	-	-	-	-	-	-	-	-	-	-										
Hirudinea																						
Erpobdellidae	-	-	-	-	-	-	-	-	-	-	-	-										
Glossiphoniidae	-	-	-	-	-	-	1	-	-	5	-	-										
Crustacea																						
Asellus aquaticus	-	-	-	-	-	-	-	-	-	-	-	-										
Gammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-										
Insecta																						
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-										
Baetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-										
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-										
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-										
Trichoptera - csd	-	-	-	-	-	-	-	-	-	-	-	-										
Trichoptera - csis	-	-	-	-	-	-	-	-	-	-	-	-										
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-										
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-										
Chironomidae	-	-	-	-	-	-	-	-	-	-	-	-										
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-										
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-										
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-										
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-										
Arachnida																						
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-										
Mollusca																						
P. jenkinsi	106	4	-	-	-	-	-	-	-	4	-	-										
Limnaea pereger	1	-	-	-	-	-	-	-	-	-	-	-										
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-										
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-										
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-										
Pisidium sp.	-	-	-	-	-	-	-	-	-	-	-	-										
Number of animals	194	151	183	111	229	147	127	237	251	123	73	76										
Number of species	4	2	1	1	3	1	2	1	1	5	1	1										
Trent Biotic Index	2	2	1	1	2	1	2	1	1	2	1	1										
Chandler Score	76	37	9	9	45	9	35	9	8	101	12	12										
Diversity Index	1.29	0.17	0	0	0.96	0	0.06	0	0	1.05	0	0										
Physical and chemical data																						
Temperature °C	14	16	9	6	12	16	6	8	12	12	7.5	7.5										
D.O.,mg/l	-	-	-	-	-	-	-	-	7.2	9.0	8.4	8.8										
pH	-	-	-	-	-	-	-	-	6.9	7.9	7.5	8.0										
Width in metres	1.5	1.2	1.5	1.5	1.5	1.5	1.5	1.8	1.5	1.2	1.5	1.5										
Depth in cms	7.5	7.5	15-25	7-15	15	7.5	7.5	25	7-15	7.5	15-25	15-										
Current, m/sec	0.3	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3										
Colour	cls.	cls.	cls.	cls.	cls.	cls.	gr.	br.	cls.	cls.	br.	gr.										
Clarity	cl.	cl.	cl.	cl.	cl.	cl.	t.	t.	cl.	cl.	t.	t										
% Weed cover	-	-	-	-	-	-	-	-	5	-	-	-										
Weed types	-	-	-	-	-	-	-	-	St.	-	-	-										

Figures in brackets denote numbers of species
 Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

<u>Station</u>	<u>29 DAWLEY BROOK</u>								<u>TABLE 109</u>			
<u>Year</u>	<u>1967 - 1970</u>											
<u>Month</u>	<u>1967</u>			<u>1968</u>					<u>1969</u>			
	6	9	12	3	6	9	12	3	6	9	12	1970
Platyhelminthes												
Turbellaria	2	11	-	-	-	-	1	-	-	-	-	-
Oligochaeta												
Tubificidae	38	17	15	4	30	56	62	58	6	28	48	7
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-
Lumbricidae	1	3	3	1	-	-	2	-	1	-	-	-
Naididae	-	-	-	-	-	-	-	-	-	-	-	-
Hirudinea												
Erpobdellidae	7	27	5	-	5	48	9	2	5	-	-	-
Glossiphoniidae	5	12	8	4	3	9	8	2	-	-	-	-
Crustacea												
Asellus aquaticus	-	1	1	-	-	-	-	-	-	-	-	-
Gammarus pulex	-	5	16	19	4	31	4	-	-	-	-	-
Insecta												
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-
Baetis rhodani	-	11	-	-	-	-	-	-	-	-	-	-
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csd	-	-	-	-	-	-	-	-	1	-	-	-
Trichoptera - csfs	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera larvae	-	-	-	1	-	-	-	-	-	-	-	-
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-
Chironomidae	-	2	1	-	-	19	-	-	-	-	34(2)	7
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	-	-	-	-	-	-	-	-	-	-	-	-
Tipulidae	-	-	-	1	-	-	-	-	-	-	-	-
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-
Arachnida												
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
P. jenkinsi	5000	698	16	-	-	33	19	8	-	49	3	-
Limnaea pereger	-	-	2	-	-	23	4	1	-	-	108	105
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	51	6	4	3	7	24	4	8	-	-	4	-
Number of animals	5104	793	71	33	49	243	113	79	13	77	197	119
Number of species	7	11	10	7	5	8	9	6	4	2	6	3
Trent Biotic Index	3	6	5	5	4	5	5	3	4	2	2	2
Chandler Score	156	289	254	245	124	187	236	148	138	38	108	61
Diversity Index	0.17	0.87	2.81	1.97	1.71	2.83	2.14	1.34	1.61	0.94	1.61	0.64
Physical and chemical data												
Temperature °C	9	13	4	4	12	16	10	6	11	18	6	6
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	-
pH	-	-	-	-	-	-	-	-	-	-	-	-
Width in metres	1.5-1.8	1.5	1.8	2.0	1.5-1.8	1.5	1.2	1.5	1.5-1.8	1.5-1.5	1.2-1.5	1.2-1.5
Depth in cms	7.5	7.5	25	15-25	25	7-15	7.5	7.5	15-25	7-15	15-25	15
Current, m/sec	0.2	0.2	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3
Colour	cls.	cls.	cls.	cls.	cls.	cls.	cls.	cls.	cls.	cls.	br.	cls.
Clarity	cl.	cl.	cl.	cl.	cl.	cl.	cl.	cl.	cl.	cl.	t.	cl.
% Weed cover	25	-	-	-	-	-	-	-	5	5	-	-
Weed types	Cl.	-	-	-	-	-	-	-	Cl.	Cl.	-	-

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Station 29 DAWLEY BROOK												
TABLE 110												
Year	1970 - 1973											
Month	1970			1971			1972			1973		
	6	9	12	3	6	9	12	3	6	9	12	3
Platyhelminthes												
Turbellaria	-	-	1	-	2	-	53	3	8	23	21	4
Pogonochaeta												
Tubificidae	21	16	82	40	127	18	25	12	5	5	20	3
Enchytraeidae	-	-	-	-	-	-	-	-	11	27	-	-
Lumbricidae	-	2	-	-	4	1	-	7	1	-	1	-
Nauididae	4	-	-	-	-	-	-	-	-	-	-	-
Arudinea												
Orpobdellidae	-	2	-	-	-	25	2	1	1	9	7	-
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-
Isopoda												
Asellus aquaticus	-	-	-	-	2	-	-	-	-	-	1	-
Amphiparus pulex	2	-	-	-	2	-	-	-	-	-	-	-
Insecta												
phemeroptera	-	-	-	-	-	-	-	-	-	-	-	-
Metis rhodani	-	-	-	-	-	-	-	-	-	-	-	-
ialis spp.	-	-	-	-	-	-	-	-	-	-	-	-
lecoptera	-	-	-	-	-	-	-	-	-	-	-	-
richoptera - csd	-	-	-	-	-	-	-	-	-	-	1	1
richoptera - csfs	-	-	-	-	-	-	-	-	-	-	-	-
oleoptera larvae	-	-	-	-	-	-	-	-	-	2	-	-
oleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-
hironomidae	10(2)	9	24	3	2	9(2)	8	7	11(2)	46(2)	10	3
. riparius	-	-	-	-	-	-	-	-	-	-	-	-
imuliidae	-	-	-	-	-	-	-	-	-	-	-	-
ipulidae	-	-	-	-	1	-	-	-	-	-	-	-
ther Diptera	-	-	-	1	-	-	-	-	-	1	-	-
achnida												
dracarina	-	-	-	-	-	-	-	-	-	-	-	-
llusca												
. jenkinsi	-	5	97	-	565	711	579	384	1829	3150	641	821
imnaea pereger	26	52	91	18	21	5	1	3	1	1	-	1
hysa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-
ncylidae sp.	-	-	1	-	-	-	-	-	1	-	-	-
phaerium sp.	-	-	-	-	-	2	3	-	9	17	4	5
isidium sp.	1	-	13	-	34	181	75	12	230	182	80	54
Number of animals	64	86	309	62	760	952	746	429	2107	3463	786	892
Number of species	7	6	7	4	10	9	8	8	12	12	10	8
ent Biotic Index	5	3	3	2	5	3	3	3	4	4	5	5
andler Score	158	137	207	87	287	173	189	188	233	267	282	249
iversity Index	1.96	1.72	2.08	1.23	1.23	1.14	1.19	0.74	0.71	0.62	1.06	0.50
Physical and chemical data												
Temperature °C	16	16	8	6	13	17	6	8	15	13.5	7.5	8
O.,mg/l	-	-	-	-	-	-	-	-	6.9	6.4	7.3	7.3
	-	-	-	-	-	-	-	-	7.1	7.4	7.4	7.6
Depth in metres	1.2-	1.2-	1.5	1.5	1.2-	1.5-	1.5-	1.2-	1.5	1.2	1.2-	1.5
	1.5	1.5			1.5	1.8	1.8	1.8			1.5	
Depth in cms	7-15	7-25	15-25	7-25	7-15	7-15	7-25	15-30	7-25	7-15	25-30	25-30
Current, m/sec	0.3	0.2	0.4	0.3	0.3	0.3	0.3	0.4	0.2	0.3	0.3	0.4
Flour	cls.	cls.	cls.	cls.	cls.	cls.	cls.	gr.	cls.	cls.	gr.	gr.
Arity	cl.	cl.	cl.	cl.	cl.	cl.	cl.	t.	cl.	cl.	t.	t.
Seed cover	-	5	5	-	10	10	-	-	25	50	-	-
d types	-	Cl.	Cl.	-	Cl.	Cl.	-	-	Cl.	Cl.	-	-

ures in brackets denote numbers of species
to abbreviations on page 1.

Station	31 DAWLEY BROOK												TABLE 112			
Year	1970 - 1973															
Month	1970				1971				1972				1973			
	6	9	12	3	6	9	12	3	6	9	12	3	6	9	12	3
Platyhelminthes																
Turbellaria	-	-	-	2	-	-	-	-	-	-	22	7	11			
Polychaeta																
Tubificidae	6	17	46	67	102	2	19	18	13	10	41	11				
Enchytraeidae	-	-	-	-	-	-	-	-	84	2	-	59				
Lumbricidae	-	-	-	1	-	1	-	-	-	-	-	-				
Isididae	47	-	-	-	-	-	-	-	-	-	-	-				
Crustacea																
Amphipoda																
Isopoda	-	-	-	-	-	-	-	-	-	11	4	9				
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-				
Cladocera																
Daphnia pulex	-	-	3	-	-	5	3	4	7	79	89	59				
Amphipoda pulex	-	-	-	-	-	-	-	-	-	-	-	-				
Insecta																
Phlebotomina	-	-	-	-	-	-	-	-	-	-	-	-				
Phlebotomina rhodani	-	-	-	-	-	-	-	-	-	6	-	-				
Phlebotomina spp.	-	-	-	-	-	-	-	-	-	-	-	-				
Phlebotomina	-	-	-	-	-	-	-	-	-	-	-	-				
Phlebotomina - csd	-	-	-	-	-	-	-	-	-	-	-	-				
Phlebotomina - csis	-	-	-	-	-	-	-	-	-	-	-	-				
Phlebotomina larvae	-	-	-	-	-	-	-	-	-	1	-	-				
Phlebotomina adults	-	-	-	-	-	-	-	-	-	-	-	-				
Phlebotomina	83(2)	11	16	24	34(2)	50(3)	4	12	18(2)	13	12	24				
Phlebotomina riparius	-	-	-	-	-	-	-	-	-	-	-	-				
Phlebotomina	-	-	-	-	-	-	-	-	-	20	-	-				
Phlebotomina	-	1	-	-	-	1	-	-	-	-	-	1				
Other Diptera	-	-	-	-	-	-	8	-	1	10	4	-				
Acchnida																
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-				
Amphipoda																
Amphipoda jenkinsi	-	-	2	2	2	38	113	321	709	1202	775	6336				
Amphipoda peregrin	1	44	34	35	51	279	49	61	10	57	48	84				
Amphipoda fontinalis	-	-	-	-	-	-	-	-	-	-	-	-				
Amphipoda	-	-	-	-	-	-	-	-	-	-	1	-				
Amphipoda	-	-	-	-	-	-	-	-	-	-	-	-				
Amphipoda	-	-	-	-	-	6	4	8	10	17	18	15				
Number of animals	137	76	101	129	189	382	200	424	852	1450	999	6609				
Number of species	5	4	5	5	5	10	7	6	9	13	10	10				
Shannon Biotic Index	2	2	3	2	2	4	4	4	4	6	4	4				
Simpson Score	76	119	111	118	82	212	196	124	202	418	304	236				
Evenness Index	1.21	1.42	1.73	1.60	1.50	1.30	1.78	1.21	0.97	1.15	1.29	0.35				
Physical and chemical data																
Temperature °C	16	16	8	6	13	17	6	8	14.5	13.5	7.5	8				
DO, mg/l	-	-	-	-	-	-	-	-	7.8	7.2	9.0	7.9				
pH	-	-	-	-	-	-	-	-	7.1	7.5	7.5	7.5				
Depth in metres	1.2	1.2-1.5	1.5	1.5	1.5	1.2-1.5	1.2-1.5	1.5	1.5	0.9-1.5	1.5	1.5				
Depth in cms	7.5	7.5	7-15	7-15	7-15	7-15	15-25	15-25	7-15	7-15	15-25	25				
Current, m/sec	0.3	0.3	0.6	0.4	0.4	0.3	0.4	0.6	0.4	0.4	0.6	0.6				
Colour	cls.	cls.	cls.	cls.	cls.	cls.	cls.	gr.	cls.	cls.	gr.	gr.				
Clarity	cl.	cl.	cl.	cl.	cl.	cl.	cl.	t.	cl.	cl.	t.	t.				
Bed cover	-	90	50	75	50	95	50	-	-	25	-	-				
Bed types	-	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.				

ures in brackets denote numbers of species
to abbreviations on page 1.

to abbreviations on page 1.

Station	49. BOB'S BROOK									
Year	1968 - 1970				1969				1970	
Month	3	6	9	12	3	6	9	12	3	
Platyhelminthes										
Turbellaria	-	-	-	-	-	-	-	-	-	
Oligochaeta										
Tubificidae	4	8	-	30	17	-	-	-	3	
Enchytraeidae	-	-	-	-	-	-	-	-	-	
Lumbricidae	-	1	-	-	1	-	-	-	2	
Naididae	-	-	-	-	-	-	-	-	-	
Hirudinea										
Erpobdellidae	-	-	-	-	-	-	-	-	2	
Glossiphoniidae	-	-	-	-	1	-	-	-	-	
Crustacea										
Asellus aquaticus	-	-	-	-	-	-	-	-	-	
Gammarus pulex	13	224	326	124	178	-	-	-	514	
Insecta										
Ephemeroptera	-	-	-	-	-	-	-	-	-	
Baetis rhodani	17	4	36	6	18	-	-	-	25	
Sialis spp.	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	
Trichoptera - csd	-	-	-	-	4	-	-	-	15	
Trichoptera - csis	-	-	-	-	-	-	-	-	-	
Coleoptera larvae	-	-	-	-	-	-	-	-	-	
Coleoptera adults	-	-	-	-	-	-	-	-	-	
Chironomidae	21	20(2)	-	14	3	-	-	-	28	
C. riparius	-	-	-	-	-	-	-	-	-	
Simuliidae	3	2	54	10	3	-	-	-	126	
Tipulidae	-	-	-	-	-	-	-	-	19(2)	
Other Diptera	-	1	-	-	-	-	-	-	-	
Arachnida										
Hydracarina	-	-	-	-	-	-	-	-	-	
Mollusca										
P. jenkinsi	-	-	-	-	-	-	-	-	-	
Limnaea pereger	-	-	-	-	-	-	-	-	-	
Physa fontinalis	-	-	-	-	-	-	-	-	-	
Ancylidae sp.	-	-	-	-	-	-	-	-	-	
Sphaerium sp.	-	-	-	-	-	-	-	-	-	
Pisidium sp.	-	-	-	6	-	-	-	-	-	
Number of animals	58	260	416	190	225	-	-	-	734	
Number of species	5	8	3	6	8	-	-	-	10	
Trent Biotic Index	4	5	4	5	6	-	-	-	6	
Chandler Score	188	230	161	209	318	-	-	-	474	
Diversity Index	2.02	0.83	0.96	1.63	1.17	-	-	-	1.49	
Physical and chemical data										
Temperature °C	4	11	13	8	5	-	-	-	4	
D.O., mg/l	-	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	-	
Width in metres	1.5	0.6- 0.9	0.9- 1.2	0.9- 1.2	0.9	-	-	-	0.9	
Depth in cms	5	5	7.5	5	5	-	-	-	5	
Current, m/sec	0.2	0.3	0.3	0.3	0.3	-	-	-	0.3	
Colour	cls.	cls.	cls.	cls.	cls.	-	-	-	cls.	
Clarity	cl.	cl.	cl.	cl.	cl.	-	-	-	cl.	
% Weed cover	-	-	-	-	-	-	-	-	-	
Weed types	-	-	-	-	-	-	-	-	-	

Figures in brackets denote numbers of species
Key to abbreviations on page 1.

Station	49 BOB'S BROOK												TABLE 114			
Year	1970 - 1973															
Month	6	9	12	3	6	9	12	3	6	9	12	3	1973			
atyhelminthes																
urbellaria	-	-	-	-	1	-	-	-	1	-	-	1				
igochaeta																
ubificidae	-	1	-	1	-	-	18	9	-	-	-	2				
nchytracidae	-	-	-	-	-	-	-	-	-	-	19	3				
umbricidae	-	2	1	3	-	-	-	1	4	-	2	1				
aididae	-	-	-	-	-	-	-	-	-	-	-	-				
rudinea																
rpobdellidae	-	-	-	-	-	-	-	-	-	-	-	-				
lossiphoniidae	-	-	-	-	1	-	-	-	-	-	-	-				
ustacea																
sellus aquaticus	-	-	-	-	-	-	-	-	-	-	-	-				
ammarus pulex	344	114	235	157	197	117	109	206	638	759	12	40				
secta																
phemeroptera	-	-	-	-	-	-	-	-	-	-	-	-				
aetis rhodani	16	-	12	63	94	-	3	15	6	1	-	4				
ialis spp.	-	-	-	-	-	-	-	-	-	-	-	-				
lecoptera	-	-	1	-	-	-	-	-	-	-	-	-				
richoptera - csd	-	-	8	-	-	2	2	-	7	1	8	6				
richoptera - csls	-	-	1	-	-	-	-	-	-	-	-	-				
oleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-				
oleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-				
nironomidae	12	4	10	12	2	5	12	18	10	1	13	2				
. riparius	-	-	-	-	-	-	-	-	-	-	-	-				
imuliidae	8	292	7	80	510	483	2	20	12	2	-	-				
ipulidae	12	-	3	3	1	23	23(2)	11	8	1	2	6				
ther Diptera	-	-	-	-	-	-	-	-	-	-	-	-				
echnida																
dracarina	-	-	-	-	-	-	-	-	-	-	-	-				
llusca																
. jenkinsi	-	-	-	-	-	-	-	-	3	-	-	-				
lmnaca pereger	-	-	-	1	-	1	-	-	-	-	-	-				
nysa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-				
ncylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-				
phaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-				
sidium sp.	6	1	-	1	-	-	3	1	2	-	4	4				
umber of animals	398	414	278	321	806	631	172	281	691	765	60	69				
umber of species	6	6	9	9	7	6	9	8	10	6	7	10				
ent Biotic Index	5	5	7	5	5	5	6	5	6	6	5	6				
andler Score	270	217	472	353	314	317	411	321	438	303	270	389				
ersivity Index	0.88	1.01	1.01	1.84	1.33	1.01	1.85	1.47	0.61	0.08	2.44	2.21				
ysical and chemical data																
emperature °C	16	14	8	4	12	14	6	6	10.5	16	7	6				
O.,mg/l	-	-	-	-	-	-	-	-	9.2	9.2	11.0	9.0				
	-	-	-	-	-	-	-	-	7.2	7.5	7.4	7.5				
depth in metres	0.9	0.3- 0.9	0.6- 0.9	0.3- 0.6	0.3- 0.9	0.6	0.9- 1.5	0.9- 1.2	0.6- 0.9	0.3- 0.4	0.6- 0.9	0.6- 0.9				
epth in cms	5	5	7-15	7.5	7.5	7.5	7-15	7.5	7-15	5	7-25	7.5				
urrent, m/sec	0.3	0.3	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3				
lour	cls.	cls.	cls.	cls.	cls.	cls.	cls.	br.	cls.	cls.	br.	cls.				
arity	cl.	cl.	cl.	cl.	cl.	cl.	cl.	t.	cl.	cl.	t.	cl.				
eed cover	-	-	-	-	-	-	-	-	-	-	-	-				
d types	-	-	-	-	-	-	-	-	-	-	-	-				

ures in brackets denote numbers of species
to abbreviations on page 1.

TABLE 115												
Station	BOB'S BROOK											
Year	1970 - 1973											
Month	6	9	12	3	6	9	12	3	6	9	12	3
Platyhelminthes												
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta												
Tubificidae	198	68	51	14	254	70	-	4	-	1	-	-
Enchytraeidae	-	-	-	-	-	-	-	-	3	-	3	2
Lumbricidae	-	-	2	-	-	3	-	1	-	-	-	1
Naididae	-	-	-	-	-	-	-	-	-	-	-	-
Mirudinea												
Erpobdellidae	-	6	-	-	-	4	-	-	-	-	-	1
Glossiphoniidae	-	-	-	-	-	-	1	-	-	-	-	-
Crustacea												
Asellus aquaticus	-	-	-	-	-	-	-	-	-	-	-	-
Gammarus pulex	52	258	81	60	156	240	439	107	1066	123	25	98
Insecta												
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-
Baetis rhodani	8	235	5	21	3	-	14	55	26	34	-	-
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	1
Trichoptera - csd	-	-	-	-	-	-	5	2	3	1	1	-
Trichoptera - csls	-	-	-	-	1	-	-	-	-	-	-	-
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-
Chironomidae	96(2)	204(2)	35	20	4	4	-	2	-	2	4	3
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	-	1419	2	9	-	160	-	10	-	2	-	-
Tipulidae	1	-	-	1	-	1	-	4(2)	1	2	-	2
Other Diptera	-	-	-	-	-	-	2	-	-	-	-	-
Arachnida												
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
P. jenkinsi	-	1	1	-	-	-	-	-	-	4	-	-
Limnaea pereger	-	-	-	-	-	-	-	-	-	-	-	-
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	-	-	4	-	-	1	-	-	2	2	-	2
Number of animals	355	2191	181	125	418	483	461	1185	1101	171	33	111
Number of species	6	8	8	6	5	8	5	9	6	9	4	9
Trent Biotic Index	5	5	5	5	5	5	5	6	6	6	4	7
Chandler Score	173	244	258	243	158	287	254	417	273	387	160	341
Diversity Index	1.53	1.61	1.94	2.04	1.10	1.63	0.34	1.64	0.24	1.31	1.14	0.85
Physical and chemical data												
Temperature °C	16	14	8	4	12	14	5	6	10	16	7	6
D.O., mg/l	-	-	-	-	-	-	-	-	9.6	9.4	11.3	8.9
pH	-	-	-	-	-	-	-	-	7.3	7.8	7.3	7.4
Width in metres	0.9-1.2	1.2-1.8	1.2-1.8	1.8	0.9-1.5	0.9-1.5	0.9-1.5	0.9-1.2	0.6-0.9	0.3-0.4	0.9-1.2	0.6-1.5
Depth in cms	5	5	7.5	7.5	5	5	7.5	7-15	7-15	7.5	7-25	7.5
Current, m/sec	0.3	0.2	0.3	0.3	0.2	0.3	0.4	0.3	0.3	0.2	0.6	0.3
Colour	cls.	cls.	cls.	cls.	cls.	cls.	cls.	br.	cls.	cls.	br.	br.
Clarity	cl.	cl.	cl.	cl.	cl.	cl.	cl.	t.	cl.	cl.	t.	t.
% Weed cover	-	-	-	-	-	-	-	-	-	-	-	-
Weed types	-	-	-	-	-	-	-	-	-	-	-	-

Figures in brackets denote numbers of species
 Key to abbreviations on page 1.

TABLE 116												
Station	32. BOB'S BROOK											
Year	1967 - 1970											
Month	1967			1968				1969			1970	
	6	9	12	3	6	9	12	3	6	9	12	3
Platyhelminthes												
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta												
Tubificidae	95	36	8	45	42	60	125	184	69	18	6	24
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-
Lumbricidae	-	-	1	-	1	-	2	1	2	-	-	-
Naididae	-	-	-	-	-	-	-	-	-	-	-	-
Hirudinea												
Erpobdellidae	-	-	-	-	-	-	1	-	-	-	-	-
Glossiphoniidae	-	-	-	-	-	-	-	-	-	1	-	-
Crustacea												
Asellus aquaticus	-	-	-	-	-	-	1	-	-	-	-	-
Gammarus pulex	5	5	-	-	-	2	29	61	21	-	94	40
Insecta												
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-
Baetis rhodani	-	-	-	-	-	-	-	9	-	-	1	2
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csd	-	-	-	-	-	-	-	2	-	-	1	1
Trichoptera - csfs	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-
Chironomidae	2	7	88(2)	46	36	70	47	15	-	58	66(2)	89
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	-	11	-	-	-	1	-	-	-	-	1	-
Tipulidae	-	-	-	-	-	-	-	1	1	-	-	1
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-
Arachnida												
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-
Limnaea pereger	-	-	-	-	-	-	3	-	-	-	-	-
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	-	-	-	-	-	-	-	-	-	-	-	-
Number of animals	102	59	97	91	79	133	208	273	93	77	169	157
Number of species	3	4	4	2	3	4	7	7	4	3	7	6
Trent Biotic Index	4	4	2	2	2	4	5	6	4	2	6	6
Chandler Score	80	145	61	34	59	126	172	276	137	57	251	250
Diversity Index	0.41	1.50	0.49	1.00	1.08	1.14	1.54	1.36	0.99	0.87	1.30	1.55
Physical and chemical data												
Temperature °C	7	12.5	4	4	12	13	8	5	10	15	6	4
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	-
pH	-	-	-	-	-	-	-	-	-	-	-	-
Width in metres	1.2- 1.5	1.2- 1.5	0.9	1.2	1.2	1.2	1.2- 1.5	1.2	1.2	1.5	0.9	0.9- 1.2
Depth in cms	5	5	5	5	7.5	7.5	7.5	7.5	15	7.5	7.5	7.5
Current, m/sec	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Colour	cls.	cls.	cls.	cls.	cls.	cls.	br.	gr.	cls.	bl.	cls.	cls.
Clarity	cl.	cl.	cl.	cl.	cl.	cl.	tr.	t.	cl.	t.	cl.	cl.
% Weed cover	-	-	-	-	-	-	-	-	-	-	-	-
Weed types	-	-	-	-	-	-	-	-	-	-	-	-

Figures in brackets denote numbers of species
 Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	32. BOB'S BROOK												TABLE 117
Year	1970 - 1973												
Month	6	9	12	3	6	9	12	3	6	9	12	3	1973
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	-
Poliochaeta													
Tubificidae	62	8	80	47	112	86	19	5	87	20	3	18	
Enchytraeidae	-	-	-	-	-	-	-	-	438	334	204	7	
Lumbricidae	-	-	1	1	-	-	-	-	-	1	-	-	
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	
Isuridinea													
Erpobdellidae	-	-	-	-	-	-	-	-	-	-	-	-	
Glossiphoniidae	-	-	-	-	-	-	-	1	-	-	-	-	
Crustacea													
Asellus aquaticus	-	-	-	-	-	-	1	-	-	-	-	-	
Gammarus pulex	-	4	19	246	10	5	2	262	22	41	12	141	
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	
Baetis rhodani	-	212	9	31	30	-	2	16	9	203	2	1	
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	
Trichoptera - csd	-	-	-	2	-	-	-	7	4	-	-	3	
Trichoptera - csfs	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-	
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	
Chironomidae	48(2)	80(2)	85(2)	94(2)	120	108(2)	8	24(2)	69(2)	205(2)	20	33	
C. riparius	-	3	-	-	-	12	6	-	-	-	-	-	
Simuliidae	-	28	7	4	2	-	-	-	-	12	-	-	
Pipulidae	-	-	-	-	-	-	-	-	-	-	-	-	
Other Diptera	-	-	-	-	1	-	-	-	-	-	-	-	
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	
Collembola													
C. jen'kinsi	-	-	-	-	-	-	-	-	-	-	-	-	
Limnaea pereger	-	-	-	-	-	-	-	-	1	-	-	-	
Lymnaea fontinalis	-	-	-	-	-	-	-	-	-	-	-	-	
Cycolidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Phaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	
Isidium sp.	-	-	1	-	-	-	-	-	-	-	-	-	
Number of animals	110	335	202	425	275	211	38	315	630	816	241	203	
Number of species	3	7	8	8	6	5	6	7	8	8	5	6	
Pielou Biotic Index	2	5	5	6	5	4	5	6	6	5	4	6	
Sandler Score	33	212	232	280	187	79	164	233	234	220	131	218	
Diversity Index	0.98	1.47	1.82	1.68	1.65	1.38	1.97	0.96	1.42	1.97	0.85	1.39	
Physical and chemical data													
Temperature °C	16	14	8	4	12	14	5	6	10	16	7	6.5	
D.O., mg/l	-	-	-	-	-	-	-	-	9.3	8.7	10.5	8.9	
pH	-	-	-	-	-	-	-	-	7.2	7.4	7.4	7.3	
Width in metres	0.9-1.2	0.9-1.2	1.2-1.5	1.2-1.5	0.9-1.5	1.5	0.9-1.5	1.2-1.5	0.9-1.2	0.3-0.6	1.5-1.8	1.2-1.5	
Depth in cms	7.5	7.5	7-25	15-25	7-15	7.5	7-15	15-30	7-15	7.5	15-25	7-15	
Current, m/sec	0.3	0.3	0.4	0.6	0.3	0.3	0.3	0.6	0.3	0.3	0.6	0.3	
Colour	cls.	cls.	gr.	cls.	br.	cls.	cls.	br.	cls.	cls.	br.	gr.	
Clarity	cl.	cl.	t.	cl.	t.	cl.	cl.	t.	cl.	cl.	t.	t.	
Weed cover	-	-	-	-	-	-	-	-	-	-	-	-	
Weed types	-	-	-	-	-	-	-	-	-	-	-	-	

Figures in brackets denote numbers of species
 refer to abbreviations on page 1.

Station	33. BOB'S BROOK												TABLE 118			
Year	1967 - 1970															
Month	1967			1968			1969			1970						
	6	9	12	3	6	9	12	3	6	9	12	3				
atyhelminthes																
turbellaria	-	-	-	-	-	-	-	-	-	-	-	-				
ligochaeta																
ubificidae	1157	767	125	684	114	167	45	129	61	9	26	67				
nchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-				
umbricidae	2	2	-	2	-	10	-	1	-	-	-	1				
aididae	-	-	-	-	-	-	-	-	-	-	-	-				
rudinea																
rpobdellidae	-	3	-	-	-	1	-	-	-	2	1	1				
lossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-				
ustacea																
sellus aquaticus	-	4	-	-	1	-	1	5	-	-	30	3				
ammarus pulex	11	3	14	8	2	4	17	61	20	13	10	15				
secta																
phemeroptera	-	-	-	-	-	-	-	-	-	-	-	-				
aetis rhodani	-	-	-	-	-	-	-	7	2	-	-	2				
ialis spp.	-	-	-	-	-	-	-	-	-	-	-	-				
lecoptera	-	-	-	-	-	-	-	-	-	-	-	-				
richoptera - csd	-	-	-	-	-	-	-	6	-	-	-	1				
richoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-				
oleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-				
oleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-				
hironomidae	95	68(2)	38(2)	82(2)	28	111	49	126	-	-	16(2)	73(2)				
. riparius	-	30	75	47	-	-	-	1	-	-	4	3				
imuliidae	1	19	-	18	1	1	9	14	-	6	-	63				
ipulidae	2	-	-	-	-	-	1	-	-	-	-	-				
ther Diptera	-	-	-	-	-	-	-	-	-	-	-	-				
achnida																
hydracarina	-	-	-	-	-	-	-	-	-	-	-	-				
llusca																
. jenkinsi	-	-	-	10	-	-	-	-	1	9	-	2				
imnaea pereger	-	-	-	-	-	1	1	-	1	-	-	-				
hysa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-				
ncylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-				
phaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-				
isidium sp.	-	-	-	1	-	5	-	-	-	3	1	1				
number of animals	1268	896	252	852	146	300	123	350	85	42	88	232				
number of species	6	9	5	9	5	8	7	9	5	6	8	13				
ent Biotic Index	5	5	4	5	4	5	5	6	4	5	5	7				
andler Score	208	213	77	229	151	224	250	325	156	199	163	410				
ersivity Index	0.49	0.86	1.66	1.09	0.91	1.42	1.90	2.03	1.11	2.35	2.20	2.22				
rsical and chemical data																
temperature °C	8	12.5	4	4	12	17	10	7	12	16	7	6				
O.,mg/l	-	-	-	-	-	-	-	-	-	-	-	-				
depth in metres	0.9-1.5	1.2-1.5	0.9-1.2	0.9-1.5	1.2-1.5	0.6-1.5	0.9-1.5	0.9-1.5	0.9-1.5	0.9-1.5	0.9-1.5	0.9-1.5				
pth in cms	7-25	7-15	15-25	15-25	7-15	7-15	15-25	25-30	25-40	7-15	25	15-25				
urrent, m/sec	0.6	0.4	0.6	0.6	0.6	0.7	0.6	0.5	0.9	0.6	0.6	0.6				
lour	br.	cls.	br.	br.	cls.	cls.	br.	br.	gr.	cls.	br.	br.				
arity	tr.	cl.	t.	t.	cl.	cl.	tr.	t.	t.	cl.	t.	tr.				
eed cover	-	-	-	-	-	-	-	-	-	-	-	-				
d types	-	-	-	-	-	-	-	-	-	-	-	-				

ures in brackets denote numbers of species
to abbreviations on page 1.

Station	33 BOB'S BROOK				TABLE 119							
Year	1970 - 1973				1971				1972			
Month	1970				6	9	12	3	6	9	12	1973
	6	9	12	3	6	9	12	3	6	9	12	3
Platyhelminthes												
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta												
Tubificidae	103	9	68	118	211	26	68	314	310	297	80	16
Enchytraeidae	-	-	-	-	-	-	-	-	104	-	14	10
Lumbricidae	1	-	-	1	1	2	-	-	-	1	-	-
Naididae	-	-	-	-	-	-	-	-	-	-	-	-
Hirudinea												
Erpobdellidae	2	1	-	-	-	5	2	4	3	6	4	-
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-
Crustacea												
Asellus aquaticus	10	18	71	55	245	217	54	6	73	250	68	29
Gammarus pulex	4	3	8	-	12	76	2	-	40	64	1	6
Insecta												
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-
Baetis rhodani	2	-	2	2	-	-	-	5	1	-	-	-
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csl	-	-	1	-	-	-	-	-	-	-	-	-
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-
Chironomidae	22(2)	7	24	59	9	14(2)	2	13	41	118(2)	12	11
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	10	89	19	111	131	647	-	-	35	-	1	19
Tipulidae	-	-	1	1	-	-	-	-	-	-	-	-
Other Diptera	-	-	-	5	-	-	-	-	-	-	-	-
Arachnida												
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
P. jenkinsi	-	-	-	-	-	-	-	-	2	10	-	-
Limnaea pereger	2	-	2	-	-	-	-	-	1	1	-	-
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	1
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	2	-	-	-	1	-	-	-	4	44	-	2
Number of animals	158	127	196	352	610	987	128	342	614	791	180	94
Number of species	11	6	9	8	7	8	5	5	11	10	7	8
Trent Biotic Index	6	5	6	5	5	5	4	4	6	5	5	5
Chandler Score	306	198	363	260	214	208	114	118	311	202	179	279
Diversity Index	1.80	1.44	2.15	2.08	1.76	1.44	1.29	0.55	2.19	2.14	1.80	2.57
Physical and chemical data												
Temperature °C	17	16	10	6	12	16	8	8	13	16	8.5	8.5
D.O., mg/l	-	-	-	-	-	-	-	-	8.0	9.3	9.7	8.4
pH	-	-	-	-	-	-	-	-	7.0	7.1	7.4	7.1
Width in metres	0.6-1.5	0.9-1.3	1.2-1.5	0.9-1.5	1.2-1.5	1.2-1.5	1.5	0.9-1.5	1.5	0.9-1.2	1.5	1.5
Depth in cms	7-25	15-25	30	7-25	15-25	7-15	15	25-40	15	7-25	25-30	7.5
Current, m/sec	0.4	0.6	0.9	0.9	0.6	0.9	0.9	0.9	0.9	0.3	0.9	0.6
Colour	gr.	br.	gr.	br.	br.	br.	cls.	br.	br.	br.	br.	gr.
Clarity	t.	tr.	tr.	tr.	t.	tr.	cl.	t.	tr.	cl.	t.	t.
% Weed cover	-	-	-	-	-	-	-	-	10	5	-	-
Weed types	m	m	-	-	-	-	-	-	Cl.	Cl.	-	-

m

Figures in brackets denote numbers of species
Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	34	HOLBEACHE BROOK						TABLE 120				
Year	1967 - 1970											
Month	6	1967			1968			1969		1970		
	6	9	12	3	6	9	12	3	6	9	12	3
Platyhelminthes												
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta												
Tubificidae	298	147	-	-	-	19	100	55	36	14	61	12
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-
Lumbricidae	-	1	-	-	-	-	-	-	-	-	1	-
Naididae	-	-	-	-	-	-	-	-	-	-	-	-
Hirudinea												
Erpobdellidae	3	-	-	-	-	2	1	2	-	-	1	-
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-
Crustacea												
Asellus aquaticus	2	1	-	-	-	3	3	3	3	4	3	-
Gammarus pulex	6	-	-	-	-	-	7	13	8	6	2	-
Insecta												
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-
Baetis rhodani	-	-	-	-	-	-	-	4	-	-	-	-
Stelis spp.	-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csl	-	-	-	-	-	-	2	4	-	-	-	-
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-
Chironomidae	128	26(2)	-	-	-	-	20	74	-	40	26	9
C. riparius	-	1	-	-	-	-	-	-	-	-	2	-
Simuliidae	1	-	-	-	-	-	-	7	-	6	-	1
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-
Arachnida												
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
P. jenkinsi	-	-	-	-	-	2	16	-	12	2	3	2
Limnaea pereger	1	-	-	-	-	-	-	1	4	-	-	-
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	-	-	-	-	-	1	-	-	-	-	-	-
Number of animals	439	176	-	-	-	27	149	163	63	72	99	24
Number of species	7	6	-	-	-	5	7	9	5	6	8	4
Trent Biotic Index	5	4	-	-	-	3	5	6	4	5	5	2
Chandler Score	195	101	-	-	-	119	219	333	128	187	193	124
Diversity Index	1.10	0.75	-	-	-	1.44	1.57	2.02	1.75	1.90	1.60	1.52
Physical and chemical data												
Temperature °C	8	12.5	-	-	-	16	10	7	12	16	7	6
D.O.,mg/l	-	-	-	-	-	-	-	-	-	-	-	-
pH	-	-	-	-	-	-	-	-	-	-	-	-
Width in metres	2.1	2.1	-	-	-	1.8- 2.1	2.1	2.1	2.1- 2.4	2.1	2.1	2.1- 2.4
Depth in cms	7-25	15-40	-	-	-	7-25	15-30	25	25-40	7-15	15	25-30
Current, m/sec	0.4	0.2	-	-	-	0.6	0.3	0.3	0.6	0.4	0.3	0.9
Colour	br.	br.	-	-	-	gr.	br.	br.	gr.	cls.	br.	gr.
Clarity	t.	t.	-	-	-	t.	t.	t.	t.	cl.	t.	t.
% Weed cover	-	-	-	-	-	-	-	-	-	-	-	-
Weed types	-	-	-	-	-	-	-	-	-	-	-	-

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	34. HOLBEACHE BROOK											TABLE 121
Year	1970 - 1973											
Month	6	1970 9	12	3	6	1971 9	12	3	1972 6	9	12	1973 3
Platyhelminthes												
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta												
Tubificidae	17	21	124	28	140	32	254	125	12	6	7	5
Enchytraeidae	-	-	-	-	-	-	-	-	34	-	-	13
Lumbricidae	-	-	-	-	1	-	-	-	1	-	-	-
Naididae	-	-	-	-	-	-	-	-	-	-	-	-
Hirudinea												
Erpobdellidae	2	1	-	2	-	4	2	-	-	-	1	-
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-
Crustacea												
Asellus aquaticus	1	6	20	12	54	254	58	15	10	31	8	12
Gammarus pulex	4	1	1	-	24	54	4	-	8	25	11	10
Insecta												
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-
Baetis rhodani	-	1	-	-	-	-	-	-	-	2	-	-
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csd	-	-	-	-	-	-	-	-	-	-	1	-
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-
Chironomidae	139(2)	54	28	26	20	5	4	11	10	5	2	16
C. riparius	-	14	10	-	-	-	-	-	-	-	-	-
Simuliidae	8	11	8	13	250	212	2	-	1	374	1	10
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-
Other Diptera	1	-	8	1	-	-	-	-	-	-	-	-
Arachnida												
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
P. jenkinsi	1	-	-	-	-	-	-	-	9	53	4	-
Limnaea pereger	-	-	-	-	-	-	-	1	1	-	-	1
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	-	-	-	-	-	-	-	-	1	-	1	1
Number of animals	173	109	199	82	489	561	324	152	87	496	36	68
Number of species	9	8	7	6	6	6	6	4	10	7	9	8
Trent Biotic Index	5	5	5	4	5	5	5	3	5	5	5	5
Chandler Score	232	240	181	167	184	183	168	78	285	242	321	234
Diversity Index	1.11	2.09	1.78	2.09	1.78	1.72	0.96	0.88	2.59	1.29	2.62	2.65
Physical and chemical data												
Temperature °C	17	15	9	6	12	16	7	7	12.5	15.5	7	8
D.O., mg/l	-	-	-	-	-	-	-	-	7.9	9.5	9.4	8.6
pH	-	-	-	-	-	-	-	-	7.3	7.3	7.3	7.3
Width in metres	2.1	2.1	2.1- 2.4	2.1	2.1	1.8- 2.1	2.1	2.4	2.1	2.1	2.1	2.1
Depth in cms	15-25	7-15	25	30-40	15-25	7-15	25-30	25-30	15-25	7.5	30-40	25
Current, m/sec	0.3	0.6	0.9	0.9	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.4
Colour	gr.	br.	gr.	gr.	br.	br.	gr.	gr.	br.	br.	gr.	gr.
Clarity	tr.	tr.	t.	t.	t.	tr.	t.	t.	t.	tr.	t.	t.
% Weed cover	-	-	-	-	-	-	-	-	-	-	-	-
Weed types	Cl.	-	-	m.	m.	-	-	-	Cl.	-	-	-

Figures in brackets denote numbers of species

Key to abbreviations on page 1

Station	35. HOLBEACHE BROOK											TABLE 122
Year	1967 - 1970											
Month	1967			1968			1969			1970		
	6	9	12	3	6	9	12	3	6	9	12	3
atyhelminthes												
turbellaria	-	-	-	-	-	-	-	-	-	-	-	-
igochaeta												
ubificidae	298	6	14	82	55	68	23	7	10	-	1	7
nchytraeidae	-	-	-	-	-	-	-	-	-	-	-	-
umbricidae	-	-	-	1	-	2	2	-	-	-	-	-
aididae	-	-	-	-	-	-	-	-	-	-	-	-
rudinea												
rpobdellidae	-	1	-	2	-	3	1	-	1	-	1	1
lossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-
ustacea												
sellus aquaticus	286	374	1744	468	49	82	721	488	369	336	480	527
ammarus pulex	-	-	-	-	-	-	-	-	-	-	-	-
secta												
phemeroptera	-	-	-	-	-	-	-	-	-	-	-	-
aetis rhodani	-	-	-	-	-	-	-	-	-	-	-	-
alis spp.	-	-	-	-	-	-	-	-	-	-	-	-
leoptera	-	-	-	-	-	-	-	-	-	-	-	-
richoptera - csd	-	-	-	-	-	-	-	1	-	-	-	-
richoptera - csis	-	-	-	-	-	-	-	-	-	-	-	-
oleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-
oleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-
hironomidae	153	69(2)	11	27	19	32	9	4	11	37	6	15
. riparius	-	-	-	-	-	-	-	-	-	-	-	-
imuliidae	-	-	6	-	-	-	-	3	-	-	2	-
ipulidae	-	-	-	-	-	-	-	-	-	-	-	-
ther Diptera	-	-	-	-	-	-	-	-	-	-	-	-
achnida												
hydracarina	-	-	-	-	-	-	-	-	-	-	-	-
llusca												
. jenkinsi	-	1	-	-	-	-	-	-	-	-	-	-
imnaea pereger	-	2	1	-	-	2	2	-	-	-	-	-
hysa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-
ncylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-
phaerium sp.	21	26	3	-	-	-	-	-	-	16	2	-
isidium sp.	-	2	-	1	23	95	17	3	3	-	39	26
Number of animals	758	481	1779	581	148	284	773	506	394	389	531	576
Number of species	4	9	6	6	5	7	6	6	5	3	7	5
ent Biotic Index	3	4	4	4	3	4	4	5	3	3	4	3
andler Score	59	185	163	122	106	144	122	217	101	56	192	98
iversity Index	1.67	1.09	0.17	0.91	1.94	2.06	0.47	0.29	0.44	0.69	0.57	0.54
ysical and chemical data												
emperature °C	7	12.5	4	4	12	15	9	6	12	16	6	6
O ₂ , mg/l	-	-	-	-	-	-	-	-	-	-	-	-
Depth in metres	1.5- 2.1	1.8- 2.4	2.1	2.1- 2.4	3.0	2.4- 2.7	2.4- 2.7	2.1- 2.4	2.1- 2.4	2.1- 2.4	2.1- 2.4	2.4
Depth in cms	7-25	7-15	15	7-25	7-15	7-15	7-15	7-25	15-25	7-15	7-15	15-25
urrent, m/sec	0.3	0.3	0.3	0.3	0.4	0.4	0.6	0.4	0.6	0.4	0.6	0.9
lour	gr.	cls.	gr.	br.	gr.	gr.	gr.	br.	gr.	cls.	br.	gr.
arity	tr.	cl.	t.	tr.	t.	tr.	t.	t.	t.	cl.	t.	t.
eed cover	75	90	-	10	-	90	-	-	-	75	-	-
d types	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.

ures in brackets denote numbers of species
to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	35 HOLBEACHE BROOK												TABLE 123
Year	1970 - 1973												
Month	6	9	12	3	6	9	12	3	6	9	12	3	197
Platyhelminthes													
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta													
Tubificidae	6	7	6	4	19	-	13	2	6	-	-	-	-
Enchytraeidae	-	-	-	-	-	-	-	-	6	4	-	-	-
Lumbricidae	-	-	1	-	-	-	-	3	1	-	-	-	-
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	-
Hirudinea													
Erpobdellidae	-	1	2	-	-	-	-	1	4	-	-	-	2
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-	-
Crustacea													
Asellus aquaticus	256	804	1034	689	771	150	1507	1122	554	283	-	-	206
Gammarus pulex	-	-	-	-	1	-	19	9	7	300	-	-	84
Insecta													
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	-
Baetis rhodani	-	1	-	-	-	-	1	1	1	3	-	-	-
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csd	-	-	-	-	-	-	-	-	4	-	-	-	-
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera larvae	-	-	1	-	-	2	1	-	-	-	-	-	-
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	-
Chironomidae	85(2)	76	18	13	52	9	32(2)	12	51(2)	4	-	-	5
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	-	277	406	3	-	-	8	6	-	79	-	-	7
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Diptera	1	-	-	-	-	-	-	-	-	-	-	-	-
Arachnida													
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca													
P. jenkinsi	-	-	-	-	-	-	-	-	-	2	-	-	-
Limnaea pereger	-	-	-	-	-	-	-	-	-	-	-	-	-
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-	-
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	26	48	93	17	157	66	402	112	112	40	-	-	16
Number of animals	374	1214	1561	726	1000	227	1983	1268	746	715	-	-	320
Number of species	6	7	8	5	5	4	9	9	11	8	-	-	6
Trent Biotic Index	4	5	4	3	4	3	5	5	7	5	-	-	5
Chandler Score	95	214	246	135	99	108	258	262	386	269	-	-	185
Diversity Index	1.24	1.37	1.27	0.37	1.04	1.15	1.01	0.66	1.27	1.78	-	-	1.39
Physical and chemical data													
Temperature °C	17	14	8	6	12	15	6	7	11.5	15	-	-	8
D.O.,mg/l	-	-	-	-	-	-	-	-	8.3	8.0	-	-	8.4
pH	-	-	-	-	-	-	-	-	7.3	7.4	-	-	7.3
Width in metres	2.1	2.1	2.4	2.4	2.4	2.1	2.4	2.4	2.1-2.4	2.1	-	-	2.1-2.4
Depth in cms	7-15	7-15	15-25	15-25	15-25	7-15	15-25	25-30	15	7-15	-	-	15-25
Current, m/sec	0.6	0.6	0.9	0.6	0.6	0.6	0.6	0.6	0.6	0.3	-	-	0.3
Colour	gr.	cls.	gr.	gr.	br.	cls.	gr.	gr.	br.	br.	-	-	gr.
Clarity	t.	cl.	t.	t.	tr.	cl.	t.	t.	tr.	cl.	-	-	t.
% Weed cover	-	90	-	-	100	100	-	-	90	100	-	-	-
Weed types	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	Cl.	-	-	Cl.

Figures in brackets denote numbers of species
 Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station 50 HOLBEACHE BROOK TABLE 124

Year 1968 - 1970

Month 3 1968 6 9 12 3 1969 6 9 12 1970 3

Platyhelminthes											
Turbellaria	-	-	1	-	-	-	-	-	-	-	-
Oligochaeta											
Tubificidae	40	44	4	4	7	-	-	-	-	-	6
Enchytraeidae	-	-	-	-	-	-	-	-	-	-	-
Lumbricidae	-	1	-	-	-	-	-	-	-	-	1
Naididae	-	-	-	-	-	-	-	-	-	-	-
Hirudinea											
Erpobdellidae	-	1	3	3	1	-	-	-	-	-	1
Glossiphoniidae	-	-	3	-	1	-	-	-	-	-	1
Crustacea											
Asellus aquaticus	28	21	205	2	17	-	-	-	-	-	10
Gammarus pulex	78	98	275	325	138	-	-	-	-	-	8
Insecta											
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-
Baetis rhodani	-	31	9	-	-	-	-	-	-	-	-
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csl	-	-	1	1	2	-	-	-	-	-	-
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-
Colcoptera larvae	-	-	-	-	-	-	-	-	-	-	-
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-
Chironomidae	13	28	21	1	14	-	-	-	-	-	4
C. riparius	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	-	2	-	-	-	-	-	-	-	-	3
Tigulidae	-	-	-	-	-	-	-	-	-	-	-
Other Diptera	-	-	-	-	-	-	-	-	-	-	-
Arachnida											
Hydracarina	-	-	-	-	-	-	-	-	-	-	-
Mollusca											
P. jenkinsi	-	-	2	-	-	-	-	-	-	-	-
Limnaea pereger	-	-	-	-	-	-	-	-	-	-	1
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	1	-	3	-	-	-	-	-	-	-	-
Number of animals	160	226	527	336	180	-	-	-	-	-	35
Number of species	5	8	11	6	7	-	-	-	-	-	9
Trent Biotic Index	4	5	7	5	5	-	-	-	-	-	5
Chandler Score	122	245	346	206	222	-	-	-	-	-	271
Diversity Index	1.78	2.19	1.55	0.27	1.24	-	-	-	-	-	2.68
Physical and chemical data											
Temperature °C	4	12	15	8	6	-	-	-	-	-	6
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-
pH	-	-	-	-	-	-	-	-	-	-	-
Width in metres	2.7	2.4	1.8- 3.0	2.4- 2.7	3.0	-	-	-	-	-	2.7
Depth in cms	7.5	7.5	7-15	7-15	7-15	-	-	-	-	-	25-40
Current, m/sec	0.3	0.4	0.4	0.6	0.6	-	-	-	-	-	0.9
Colour	br.	cls.	gr.	gr.	br.	-	-	-	-	-	gr.
Clarity	tr.	cl.	tr.	t.	t	-	-	-	-	-	t
% Weed cover	-	10	10	-	-	-	-	-	-	-	-
Weed types	-	Cl.	Cl.	Cal	-	-	-	-	-	-	-
				Cal.							

Figures in brackets denote numbers of species
Key to abbreviations on page 1.

Station	50 HOLBEACHE BROOK								TABLE 125			
Year	1970 - 1973				1971				1972			
Month	6	9	12	3	6	9	12	3	6	9	12	3
Platyhelminthes												
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-
Poligochaeta												
Tubificidae	18	3	26	4	4	-	15	22	8	3	24	-
Enchytraeidae	-	-	-	-	-	-	-	-	5	1	-	-
Lumbricidae	-	-	2	-	-	2	-	-	-	-	-	1
Naididae	-	-	-	-	-	-	-	-	-	-	-	-
Isurudinea												
Erpobdellidae	-	2	-	-	3	3	-	2	1	1	1	1
Glossiphoniidae	-	1	2	-	2	1	2	-	-	-	-	2
Crustacea												
Asellus aquaticus	18	400	12	24	5	-	-	13	-	-	-	-
Gammarus pulex	24	239	110	148	208	334	314	98	451	638	88	391
Insecta												
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-
Baetis rhodani	13	30	-	2	-	16	4	14	4	189	3	1
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csl	-	-	-	-	-	-	-	-	-	-	-	1
Trichoptera - csls	-	1	-	-	-	1	-	-	-	-	-	-
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-
Chironomidae	24	32	-	3	-	-	4	6	10	-	1	1
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	11	1092	-	2	-	49	2	2	-	58	2	9
Tipulidae	-	-	1	1	-	-	-	-	-	-	-	1
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-
Arachnida												
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
P. jenkinsi	-	-	-	1	-	-	-	-	-	-	1	-
Limnaea pereger	-	1	-	-	-	-	-	-	-	-	-	1
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	1	7	-	-	-	-	5	2	5	-	3	-
Number of animals	109	1808	153	185	222	406	346	159	484	890	123	409
Number of species	7	11	6	8	5	7	7	8	7	6	8	10
Shannon-Biote Index	5	7	5	5	4	6	5	5	5	5	5	6
Shannon Score	237	395	182	291	126	301	234	254	201	231	265	413
Diversity Index	2.58	1.58	1.27	1.07	0.46	0.91	0.64	1.84	0.52	1.12	1.33	0.36
Physical and chemical data												
Temperature °C	17	14	8	6	12	15	6	7	12.5	15	6	7.5
D.O., mg/l	-	-	-	-	-	-	-	-	8.3	9.7	10.3	8.9
pH	-	-	-	-	-	-	-	-	7.3	7.5	7.4	7.2
Width in metres	2.4-2.7	1.5-2.7	2.4-2.7	2.1-2.4	2.4	2.1-	2.7	2.7	2.4-2.7	2.1-2.4	2.7	2.4-3.0
Depth in cms	7-25	7-25	25	25-30	15-25	7.5	30	25-30	7-15	7-15	25-30	15-25
Current, m/sec	0.3	0.3	0.9	0.4	0.6	0.3	0.3	0.6	0.3	0.6	0.4	0.3
Colour	gr. cls.	gr. cls.	gr. cls.	gr. cls.	gr. cls.	cls.	gr. cls.	gr. cls.	gr. cls.	gr. cls.	gr. cls.	gr. cls.
Clarity	tr. cl.	tr. cl.	t.	t.	tr.	cl.	t.	t.	t.	t.	t.	t.
Weed cover	-	75	-	-	-	-	-	-	-	-	-	-
Weed types	Cl.	Cl.	Cl.	-	-	-	-	-	-	-	-	-

Cal.

Figures in brackets denote numbers of species
Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	36 PENN BROOK			TABLE 126								
Year	1967 - 1970											
Month	6	9 ¹⁹⁶⁷	12	3	6 ¹⁹⁶⁸	9	12	3 ¹⁹⁶⁹	6	9	12	3 ¹⁹⁷⁰
Platyhelminthes												
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-
Polychaeta												
Tubificidae	-	-	2	5	2	4	14	15	19	47	-	1
Enchytraeidae	6	3	-	-	-	-	-	-	-	-	-	-
Lumbricidae	-	-	-	1	2	-	-	-	1	1	1	-
Naididae	-	-	-	-	-	-	-	-	-	-	-	-
Isopoda												
Amphipodidae	-	-	-	-	-	-	-	-	-	-	-	-
Glossiphoniidae	-	-	-	-	-	-	-	-	1	-	-	-
Crustacea												
Asellus aquaticus	-	-	-	-	-	-	-	-	-	-	-	-
Dammarus pulex	366	183	80	56	41	226	146	62	28	138	39	18
Insecta												
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-
Ecdyonurus rhodani	95	35	35	28	2	57	8	47	19	25	3	35
Ecdyonurus spp.	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera	-	-	1	-	-	-	-	-	-	-	-	-
Trichoptera - csls	1	-	1	-	1	-	-	1	1	-	1	1
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera adults	1	-	-	-	-	-	-	-	-	-	-	-
Chironomidae	9	5	9	24	16	152	16	23	-	6	15	4
Chironomus riparius	-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	-	-	-	-	-	49	10	-	-	263	2	-
Cephalopoda	4	2	-	-	-	1	-	-	-	2	-	-
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-
Achnida												
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-
Collembola												
Collembola jenkinsi	-	-	-	-	-	1	-	-	-	-	-	-
Limnaea pereger	-	-	-	-	-	-	-	-	-	-	5	-
Lymnaea fontinalis	-	-	-	-	-	-	-	-	-	-	-	-
Encyrtidae sp.	-	-	-	-	-	-	-	-	-	-	-	-
Phaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-
Isidium sp.	-	-	-	-	-	-	-	-	-	-	1	-
Number of animals	482	228	128	114	64	490	194	148	69	482	67	59
Number of species	7	5	6	5	6	7	5	5	6	7	8	5
Pet Biotic Index	6	4	7	4	6	5	4	5	6	5	6	5
Shannon Score	326	193	294	152	227	280	181	197	227	286	321	210
Diversity Index	1.04	0.93	1.40	1.73	1.47	1.82	1.28	1.85	1.81	1.67	1.83	1.43
Physical and chemical data												
Temperature °C	9	13	4	4	12	13	8	4	10	16	7	2
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	-
pH	-	-	-	-	-	-	-	-	-	-	-	-
Width in metres	0.9-1.5	0.9-1.2	0.9-1.2	0.9-1.5	1.5-2.1	1.5	1.5	1.2-1.5	1.5	1.5	1.5-1.8	1.5-1.8
Depth in cms	5	5	5	5	5	5	5	5	7.5	5	7.5	5
Current, m/sec	0.2	0.2	0.3	0.2	0.2	0.2	0.4	0.3	0.6	0.3	0.3	0.3
Colour	cls.	cls.	cls.	cls.	cls.	cls.	cls.	cls.	cls.	br.	br.	cls.
Clarity	cl.	cl.	cl.	cl.	cl.	cl.	cl.	cl.	cl.	t.	t.	cl.
Vegetation cover	5	-	-	-	5	-	-	-	-	-	-	-
Bed types	Cl.	-	-	-	Cl.	-	-	-	-	-	-	-

Figures in brackets denote numbers of species
 refer to abbreviations on page 1.

Station	36 PENN BROOK												TABLE 127			
Year	1970 - 1973															
Month	1970				1971				1972				1973			
	6	9	12	3	6	9	12	3	6	9	12	3	6	9	12	3
Platyhelminthes																
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta																
Tubificidae	2	7	10	40	4	2	3	14	-	9	-	1	-	-	-	-
Enchytraeidae	-	-	3	-	-	21	-	-	-	2	7	9	-	-	-	-
Lumbricidae	2	-	3	3	-	-	1	3	-	1	-	2	-	-	-	-
Naididae	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hirudinea																
Erpobdellidae	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Glossiphoniidae	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
Crustacea																
Asellus aquaticus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Gammarus pulex	47	78	63	97	77	168	24	46	84	496	3	39	-	-	-	-
Insecta																
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Baetis rhodani	45	8	53	126	13	17	2	58	50	74	-	5	-	-	-	-
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csd	1	-	1	4	1	3	-	-	-	2	1	1	-	-	-	-
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera larvae	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chironomidae	81(3)	17	9	17(2)	31(2)	6	1	2	16	16	2	26	-	-	-	-
C. riparius	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Simuliidae	10	200	55	25	-	906	1	-	6	2111	-	-	-	-	-	-
Tipulidae	-	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Diptera	-	-	-	3	-	1	-	-	-	-	-	-	-	-	-	-
Arachnida																
Hydracarina	-	1	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca																
P. jenkinsi	-	-	3	-	10	27	-	-	-	3	-	-	-	-	-	-
Limnaea pereger	-	28	8	7	2	1	-	-	-	-	-	-	-	-	-	-
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of animals	189	340	216	322	138	1153	33	123	156	2714	13	85	-	-	-	-
Number of species	10	8	13	10	8	11	7	5	4	9	4	8	-	-	-	-
Trent Biotic Index	6	5	7	6	6	7	5	4	4	6	4	6	-	-	-	-
Chandler Score	340	317	502	347	260	411	237	151	170	356	163	274	-	-	-	-
Diversity Index	1.96	2.03	2.61	2.26	1.84	1.10	1.50	1.63	1.52	0.97	1.67	2.15	-	-	-	-
Physical and chemical data																
Temperature °C	17	14	8	4	10	16	5	5	11.5	14.5	6.5	6.5	-	-	-	-
D.O.,mg/l	-	-	-	-	-	-	-	-	6.7	9.8	10.8	9.1	-	-	-	-
pH	-	-	-	-	-	-	-	-	7.4	7.3	7.3	7.8	-	-	-	-
Width in metres	1.5	1.5	1.5- 1.8	1.5	1.5- 1.8	0.6- 1.5	1.5- 1.8	2.1	0.9- 1.5	0.9- 1.2	1.8- 2.1	1.5	-	-	-	-
Depth in cms	5	5	7-15	7-15	7-15	5	7.5	7.5	7.5	5	7-15	7.5	-	-	-	-
Current, m/sec	0.3	0.3	0.3	0.4	0.3	0.2	0.3	0.3	0.2	0.2	0.6	0.3	-	-	-	-
Colour	cls.	cls.	cls.	cls.	cls.	cls.	cls.	br.	cls.	cls.	br.	br.	-	-	-	-
Clarity	cl.	cl.	cl.	cl.	cl.	cl.	cl.	t.	cl.	cl.	tr.	t.	-	-	-	-
% Weed cover	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-
Weed types	-	-	-	-	Cl.	-	-	-	-	-	-	-	-	-	-	-

Figures in brackets denote numbers of species

Key to abbreviations on page 1.

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	37 PENN BROOK												TABLE 128		
Year	1967 - 1970														
Month	1967				1968				1969			1970			
	6	9	12	3	6	9	12	3	6	9	12	3			
Platyhelminthes															
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-			
Oligochaeta															
Tubificidae	-	15	6	22	42	318	208	116	-	32	14	34			
Enchytraeidae	-	-	-	-	-	-	-	-	418	-	-	-			
Lumbricidae	-	-	-	-	2	-	2	1	1	-	-	1			
Naididae	-	-	-	-	-	-	-	-	-	-	-	-			
Hirudinea															
Erpobdellidae	-	-	-	-	-	-	-	-	-	-	-	-			
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-			
Crustacea															
Asellus aquaticus	-	-	-	-	-	-	-	-	-	-	-	-			
Gammarus pulex	-	40	1	13	48	612	110	152	10	252	95	15			
Insecta															
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-			
Baetis rhodani	-	2	9	13	4	24	5	54	13	80	-	8			
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-			
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-			
Trichoptera - csd	-	-	1	-	1	-	-	-	2	-	-	-			
Trichoptera - csfs	-	-	-	-	-	-	-	-	-	-	-	-			
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	1	-			
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-			
Chironomidae	-	412(2)	78(2)	44	17	696	46	60	-	112	41	3			
C. riparius	-	17	10	1	-	-	-	-	-	-	-	-			
Simuliidae	-	103	-	-	-	5652	853	89	-	19840	336	27			
Tipulidae	-	-	-	-	-	-	1	2	-	-	-	-			
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-			
Arachnida															
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-			
Mollusca															
P. jenkinsi	-	-	-	-	1	-	-	-	-	32	3	-			
Limnaea pereger	-	-	-	-	-	-	1	-	-	16	4	-			
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-			
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-			
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-			
Pisidium sp.	-	-	-	-	-	-	-	-	-	32	1	-			
Number of animals	-	590	105	93	115	7302	1226	474	444	20396	495	88			
Number of species	-	7	7	5	7	5	8	7	5	8	8	6			
Trent Biotic Index	-	5	6	4	6	4	5	5	5	5	5	5			
Chandler Score	-	199	214	143	250	187	306	275	196	268	286	216			
Diversity Index	-	1.37	1.75	1.86	1.85	1.13	1.35	2.26	.40	0.23	1.39	2.04			
Physical and chemical data															
Temperature °C	-	13	4	4	12	13	8	5	11	16	7	3			
D.O.,mg/l	-	-	-	-	-	-	-	-	-	-	-	-			
pH	-	-	-	-	-	-	-	-	-	-	-	-			
Width in metres	-	1.5-1.8	1.8	1.5-2.1	2.1	2.1	1.5	1.5-2.1	1.8-2.1	1.2-1.8	1.5-2.1	1.5-2.1			
Depth in cms	-	5	5	5	5	5	5	5	7.5	5	7-15	7-15			
Current, m/sec	-	0.2	0.3	0.2	0.3	0.3	0.4	0.4	0.6	0.4	0.4	0.9			
Colour	-	cls.	cls.	cls.	cls.	cls.	cls.	gr.	cls.	br.	br.	cls.			
Clarity	-	cl.	cl.	cl.	cl.	cl.	cl.	tr.	cl.	t.	t.	cl.			
% Weed cover	-	-	-	-	-	-	-	-	-	-	-	-			
Weed types	-	-	-	-	-	-	-	-	-	-	-	-			

Figures in brackets denote numbers of species
 Key to abbreviations on page 1.

Station

37. PENN BROOK

TABLE 129

Year

1970 - 1973

Month

6

1970

9

12

3

6

1971

9

12

3

1972

6

9

12

1973

3

Platyhelminthes

Turbellaria

-

-

-

-

-

-

-

-

1

-

-

-

Oligochaeta

Tubificidae

32

22

68

173

112

48

50

124

103

2

2

7

Enchytraeidae

-

-

-

-

-

208

-

-

75

23

28

81

Lumbricidae

-

-

1

4

-

-

-

3(2)

-

1

-

-

Naididae

-

-

-

-

-

-

-

-

-

-

-

-

Hirudinea

Erpobdellidae

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Glossiphoniidae

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1

-

2

Crustacea

Asellus aquaticus

-

-

-

-

-

-

-

-

-

-

-

1

Gammarus pulex

376

337

145

281

576

288

45

151

815

1123

6

157

Insecta

Ephemeroptera

-

-

-

-

-

-

-

-

-

-

-

-

Baetis rhodani

17

7

7

72

24

16

-

38

44

12

-

2

Sialis spp.

-

-

-

-

-

-

-

-

-

-

-

-

Plecoptera

-

-

-

1

-

-

-

-

-

-

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Trichoptera - csl

-

-

1

1

4

2

-

-

-

10

2

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Trichoptera - csls

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Coleoptera larvae

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Coleoptera adults

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Chironomidae

29(2)

17

69(4)

66(2)

88(2)

64

4

9

39(2)

197

21

94

C. riparius

-

-

4

1

-

-

-

-

-

-

-

-

Simuliidae

1106

1312

1137

448

3928

9216

7

30

852

3124

2

147

Tipulidae

-

4

1

1

-

-

-

-

-

-

-

-

Other Diptera

1

-

-

-

-

-

-

-

-

-

2

-

Arachnida

Hydracarina

-

-

1

-

-

-

-

-

-

-

-

-

Mollusca

P. jenkinsi

23

6

3

-

64

32

-

-

35

-

2

-

Limnaea pereger

3

9

6

1

-

-

-

-

-

-

-

-

Physa fontinalis

-

-

-

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-

-

-

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-

Ancylidae sp.

-

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Sphaerium sp.

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-

Pisidium sp.

-

-

-

Numbers of macroinvertebrates found in approximately 1 m² of riffle

Station	38 PENN BROOK 1967								TABLE 130			
Year	1967 - 1970											
Month	1967				1968				1969		1970	
	6	9	12	3	6	9	12	3	6	9	12	3
Platyhelminthes												
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta												
Tubificidae	3	92	-	104	69	8	62	48	-	20	10	34
Enchytraeidae	-	-	-	-	-	-	-	-	114	-	-	-
Lumbricidae	-	-	-	1	-	1	-	-	-	-	-	-
Naididae	-	-	-	-	-	-	-	-	-	-	-	-
Hirudinea												
Erpobdellidae	-	-	-	-	-	1	-	-	-	-	-	-
Glossiphoniidae	-	-	-	-	-	-	-	-	-	-	-	-
Crustacea												
Asellus aquaticus	-	-	-	-	-	-	-	-	-	-	-	-
Gammarus pulex	-	1	-	9	23	104	14	8	13	29	29	5
Insecta												
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-
Baetis rhodani	-	1	-	38	1	36	23	213	7	126	48	66
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csl	-	-	-	-	-	-	-	3	-	-	11	-
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera larvae	-	-	-	-	-	-	-	-	-	-	1	-
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-
Chironomidae	7	135	-	26	4	116	57	60	1	32	23	14
C. riparius	-	64	-	-	-	-	-	-	-	-	-	-
Simuliidae	-	1415	-	310	64	1072	2501	1278	-	1266	110	604
Tipulidae	-	-	-	-	-	-	-	-	-	-	-	-
Other Diptera	-	-	-	-	-	-	-	-	-	-	-	-
Arachnida												
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-
Limnaea pereger	-	-	-	-	-	-	-	-	-	-	3	-
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-
Ancyliidae sp.	-	-	-	-	-	-	-	-	-	-	-	-
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	-	-	-	-	-	-	-	-	-	1	-	-
Number of animals	10	1708	-	488	161	1338	2657	1610	135	1474	234	723
Number of species	2	6	-	6	5	7	5	6	4	6	8	5
Trent Biotic Index	2	5	-	5	4	5	4	6	4	5	6	4
Chandler Score	43	193	-	218	194	245	193	278	122	231	367	199
Diversity Index	0.88	0.93	-	1.52	1.63	1.04	0.42	1.03	0.80	0.81	2.19	0.89
Physical and chemical data												
Temperature °C	8	13	-	4	12	13	8	5	11	16	7	3
D.O., mg/l	-	-	-	-	-	-	-	-	-	-	-	-
pH	-	-	-	-	-	-	-	-	-	-	-	-
Width in metres	1.5	1.5-1.8	-	1.5	1.8-3.0	1.8	1.8	1.8	1.8-2.1	1.8	1.5-1.8	1.5-2.1
Depth in cms	7-15	5	-	5	7.5	7-15	7.5	7.5	7-15	7-15	7-15	7-15
Current, m/sec	0.2	0.3	-	0.3	0.3	0.2	0.4	0.3	0.6	0.3	0.4	0.9
Colour	gr.	cls.	-	cls.	cls.	cls.	cls.	gr.	cls.	cls.	gr.	cls.
Clarity	t.	cl.	-	cl.	cl.	cl.	cl.	tr.	cl.	cl.	t.	cl.
% Weed cover	-	-	-	5	-	5	-	-	10	25	-	-
Weed types	-	-	-	Cl.	-	Cl.	-	-	Cl.	Cl.	-	-

Figures in brackets denote numbers of species

Key to abbreviations on page 1

Station	38 PENN BROOK					TABLE 131						
Year	1970 - 1973											
Month	6	1970 9	12	3	6	1971 9	12	3	6	1972 9	12	1973 3
Platyhelminthes												
Turbellaria	-	-	-	-	-	-	-	-	-	-	-	-
Oligochaeta												
Tubificidae	-	26	19	272	32	15	4	54	27	14	3	15
Enchytraeidae	-	-	-	-	-	10	-	-	36	98	62	93
Lumbricidae	-	1	-	-	-	-	-	-	1	2	-	-
Naididae	-	-	-	-	-	-	-	-	-	-	-	-
Hirudinea												
Erpobdellidae	-	-	-	-	-	-	-	-	-	-	-	-
Glossiphoniidae	-	-	-	-	-	-	-	-	-	1	-	-
Crustacea												
Asellus aquaticus	-	-	-	-	-	-	-	-	-	-	-	-
Gammarus pulex	351	34	36	18	216	84	27	8	100	102	11	338
Insecta												
Ephemeroptera	-	-	-	-	-	-	-	-	-	-	-	-
Baetis rhodani	1	18	5	112	7	37	-	29	7	182	3	16
Sialis spp.	-	-	-	-	-	-	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-	-	-	-	-	-	-
Trichoptera - csa	-	-	-	1	1	1	-	1	-	1	-	-
Trichoptera - csls	-	-	-	-	-	-	-	-	-	-	-	-
Coleoptera larvae	1	-	-	-	-	-	-	-	-	1	-	-
Coleoptera adults	-	-	-	-	-	-	-	-	-	-	-	-
Chironomidae	303(2)	38	30(3)	752	120(2)	22(2)	5	75(2)	161(2)	1172(2)	7	26
C. riparius	-	-	-	1	-	-	-	-	-	-	-	-
Simuliidae	4671	1197	711	10352	2584	3264	321	1233	1826	7859	32	2054
Tipulidae	-	-	-	-	-	-	-	-	-	1	-	-
Other Diptera	-	-	-	-	1	1	-	-	-	-	-	-
Arachnida												
Hydracarina	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
P. jenkinsi	-	-	-	-	-	-	-	-	-	-	-	-
Limnaea pereger	6	15	23	4	48	1	-	1	-	-	-	-
Physa fontinalis	-	-	-	-	-	-	-	-	-	-	-	-
Ancylidae sp.	-	-	-	-	-	-	-	-	-	-	-	-
Sphaerium sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pisidium sp.	-	1	1	-	24	-	-	-	2	-	-	-
Number of animals	5333	1330	825	11512	3033	3435	357	1401	2160	8378	118	2542
Number of species	7	8	9	8	10	10	4	8	9	12	6	6
Trent Biotic Index	.5	5	5	6	6	6	4	6	5	7	5	5
Chandler Score	253	277	250	316	338	382	158	298	260	444	208	209
Diversity Index	0.67	0.70	0.88	0.60	0.90	0.38	0.57	0.74	0.90	0.46	1.82	0.96
Physical and chemical data												
Temperature °C	18	15	8	5	11	17	6	6	12.5	16	7	7
D.O.,mg/l	-	-	-	-	-	-	-	-	6.1	8.3	10.4	8.2
pH	-	-	-	-	-	-	-	-	7.3	7.1	7.4	7.3
Width in metres	1.5-1.8	1.5	1.5	1.5	1.5	1.5	0.9-2.1	1.8	1.5-1.8	1.8	1.8-2.1	1.5-1.8
Depth in cms	7-15	7-15	7-15	7-25	7-15	7-15	7-15	15-25	7-15	7-15	7-25	7-15
Current, m/sec	0.4	0.6	0.6	0.6	0.3	0.3	0.6	0.6	0.4	0.3	0.9	0.4
Colour	cls.	cls.	cls.	cls.	cls.	cls.	cls.	br.	cls.	cls.	br.	cls.
Clarity	cl.	cl.	cl.	cl.	cl.	cl.	cl.	t.	cl.	cl.	t.	cl.
% Weed cover	75	5	50	5	50	50	5	-	75	10	-	25
Weed types	Cl.	m	Cl.	m	Cl.	Cl.	Cl.	-	Cl.	Cl.	Cl.	Cl.

Figures in brackets denote numbers of species
Key to abbreviations on page 1.