

**SUMMARY OF AQUATIC INVERTEBRATE DATA  
COLLECTED FROM WETLANDS AT RISKE  
CREEK, BRITISH COLUMBIA, 1984 AND 1985**

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W. Sean Boyd  
Dave W. Smith



**TECHNICAL REPORT SERIES No. 60**  
Pacific and Yukon Region 1989  
Canadian Wildlife Service



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This series may be cited as:

Boyd, W. Sean and Dave W. Smith. 1988.  
Summary of aquatic invertebrate data collected  
from wetlands at Riske Creek, British Columbia,  
1984 and 1985. Technical Report Series  
No. 60. Canadian Wildlife Service, Pacific  
and Yukon Region, British Columbia.

**Published by Authority of the  
Minister of Environment  
Canadian Wildlife Service**

**Minister of Supply and Services Canada 1989  
Catalogue No. CW69-5/60E  
ISBN 0-662-16830-5  
ISSN 0831-6481**

**Copies may be obtained from:  
Canadian Wildlife Service,  
Pacific and Yukon Region  
P.O. Box 340,  
Delta, British Columbia,  
Canada V4K 3Y3**

### **Abstract**

Aquatic invertebrate sampling was conducted during the summers of 1984 and 1985 on selected wetlands located near Riske Creek, British Columbia. Three sampling techniques were used: activity trap, bottom corer, and sweep net. The resulting data are presented in tables.

### **Résumé**

Les invertébrés aquatiques de plans d'eau près de Riske Creek, Colombie Britannique, a furent échantillonnés durant les étés de 1984 et 1985. Trois techniques d'échantillonnage furent utilisées: la trappe à activité, l'échantillonnage du substrat à l'aide d'un carottier, et un balayage par filet. Les résultats obtenus sont présentés sous forme de tableaux.

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**Acknowledgements**

We thank the following people for their assistance in the collection, classification, and counting of invertebrate samples: Gail Clarke, Bob Hay, Ken White, and G.E.J. Smith. Syd Cannings, Jill Lancaster and Gilles Gauthier provided equipment and gave advice on collection procedures. We also thank Susan Garnham for typing the manuscript, and Pamela Whitehead for arranging printing.

## **1. Introduction**

The Canadian Wildlife Service has been conducting research on aquatic bird use of wetlands at Riske Creek, British Columbia, since 1980. In 1983, biotic (plants) and abiotic (morphometry and water chemistry) data were collected from 118 wetlands and subsequently published in a regional report (Boyd and Savard 1987). During 1984 and 1985, we sampled aquatic invertebrates from a subset of those same wetlands. The purpose of this report is to make those invertebrate data, and our sampling methods, available so that others may make use of them when planning research at Riske Creek.

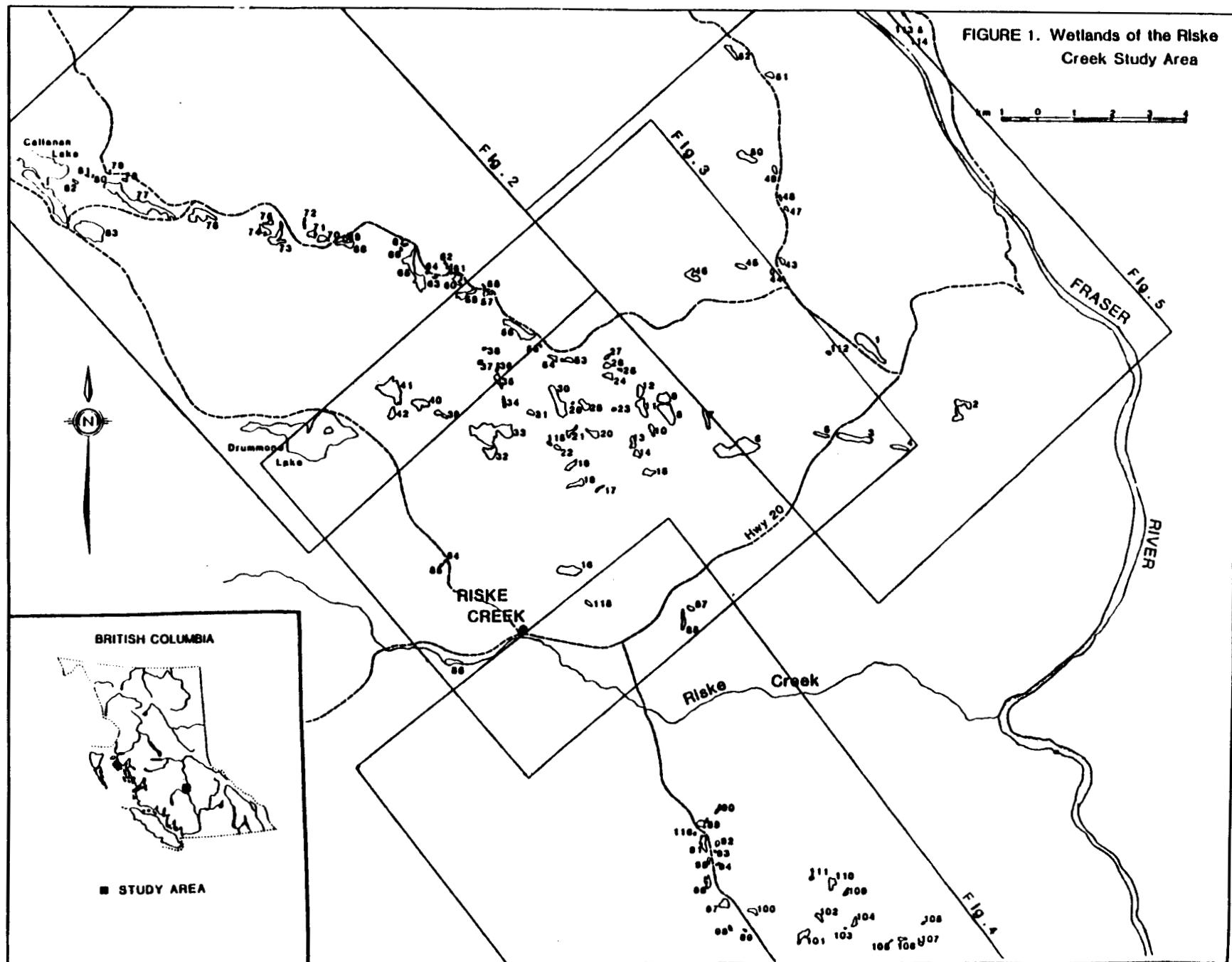
## **2. Study Area**

Riske Creek is located in south-central British Columbia on the Fraser Plateau approximately 40km west of Williams Lake (Figures 1 through 5). The majority of wetlands sampled are located on Becher's Prairie near Riske Creek. That area has one of the highest densities and diversities of water bodies in British Columbia. It is recognized as an important breeding area for waterfowl (McKelvey and Munro 1983). The study area wetlands are relatively shallow and small with narrow strips of emergent, submergent, and some snag (dead tree) zones around their edges.

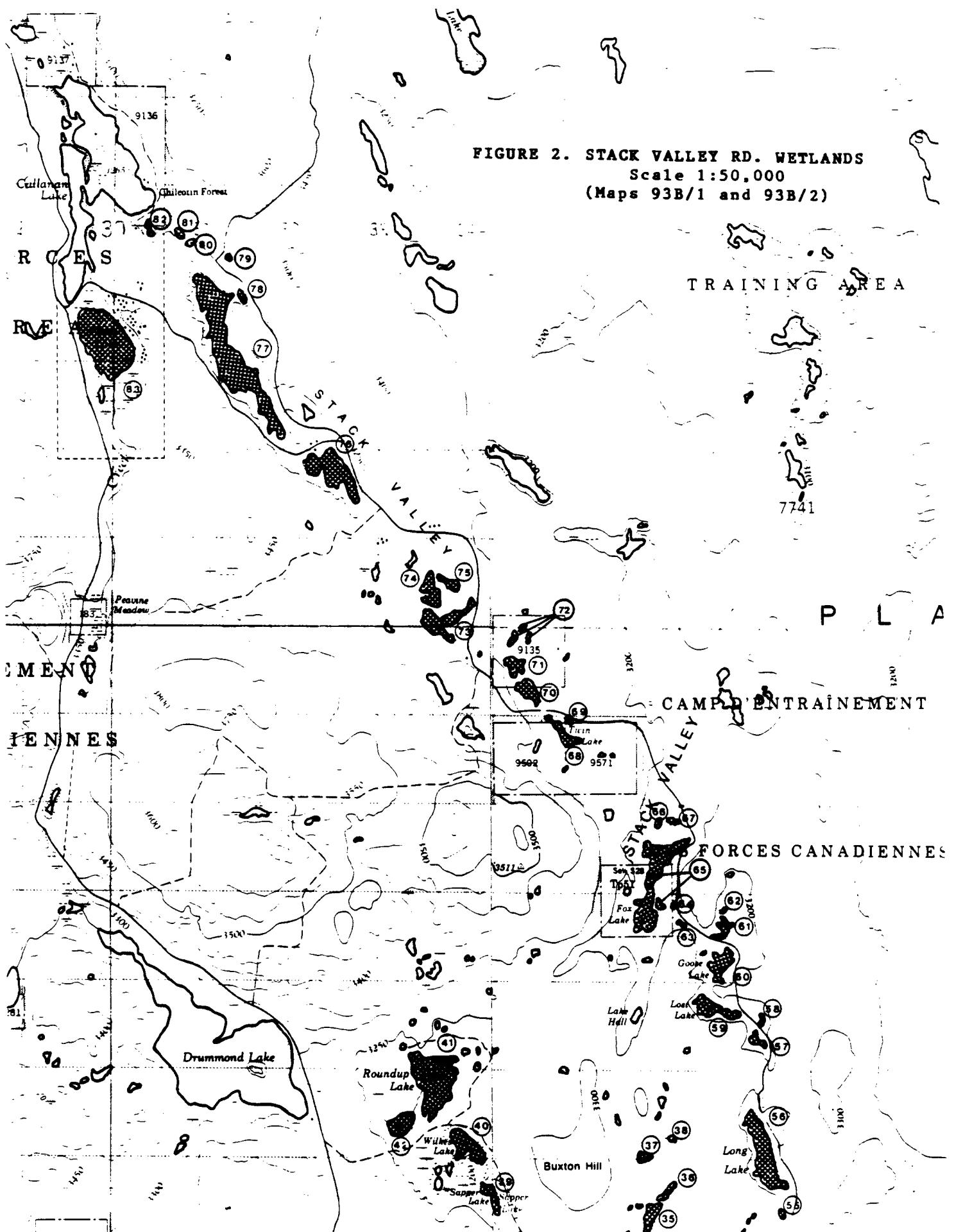
## **3. Methods**

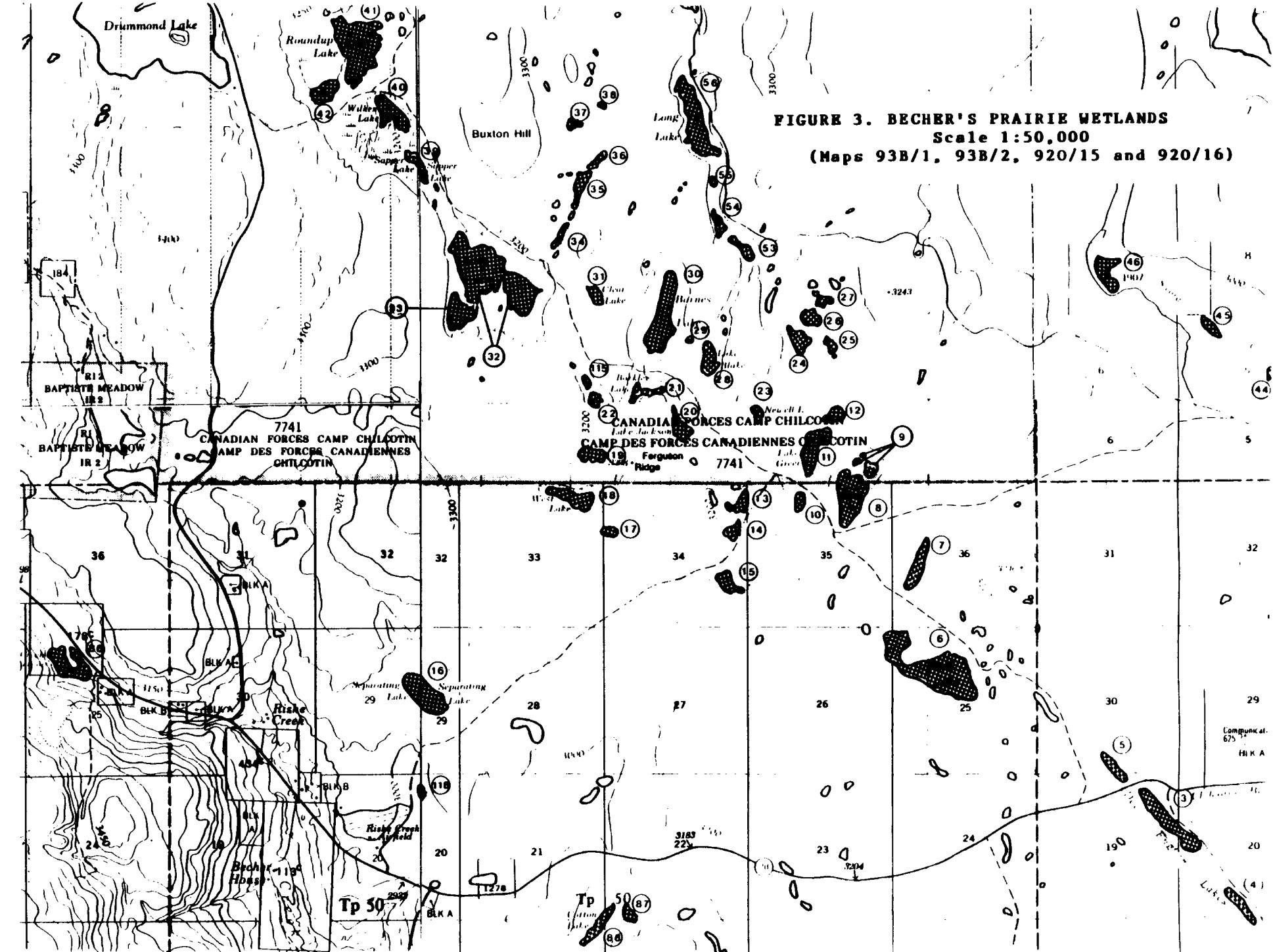
Aquatic invertebrates were sampled from selected wetlands using 3 techniques: activity traps (Whitman 1974, Murkin et al. 1983), bottom corers (Swanson 1978), and sweep nets (Murkin et al. 1983). Those techniques permitted the sampling of the full range of free-swimming, bottom-dwelling, and planktonic invertebrates available to aquatic birds. Wetlands were selected by partitioning them into high, medium, and low values for water chemistry (pH, conductivity, and calcium) and aquatic bird use.

**FIGURE 1. Wetlands of the Riske Creek Study Area**



**FIGURE 2. STACK VALLEY RD. WETLANDS**  
Scale 1:50,000  
(Maps 93B/1 and 93B/2)





**FIGURE 3. BECHER'S PRAIRIE WETLANDS**

Scale 1:50,000

(Maps 93B/1, 93B/2, 920/15 and 920/16)

**FIGURE 4. FARWELL CANYON RD. WETLANDS**  
Scale 1:50,000  
(Maps 920/15 and 920/16)

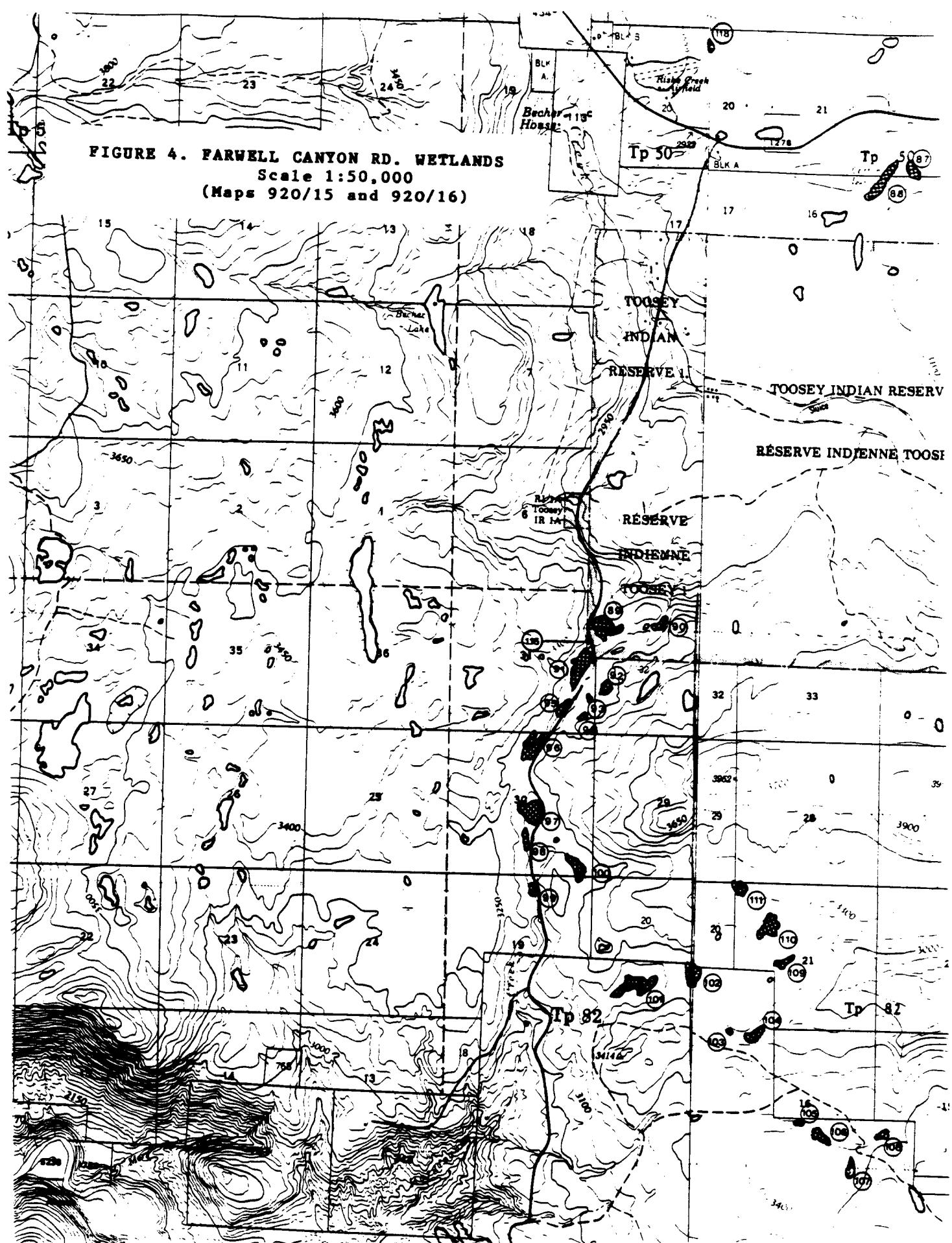
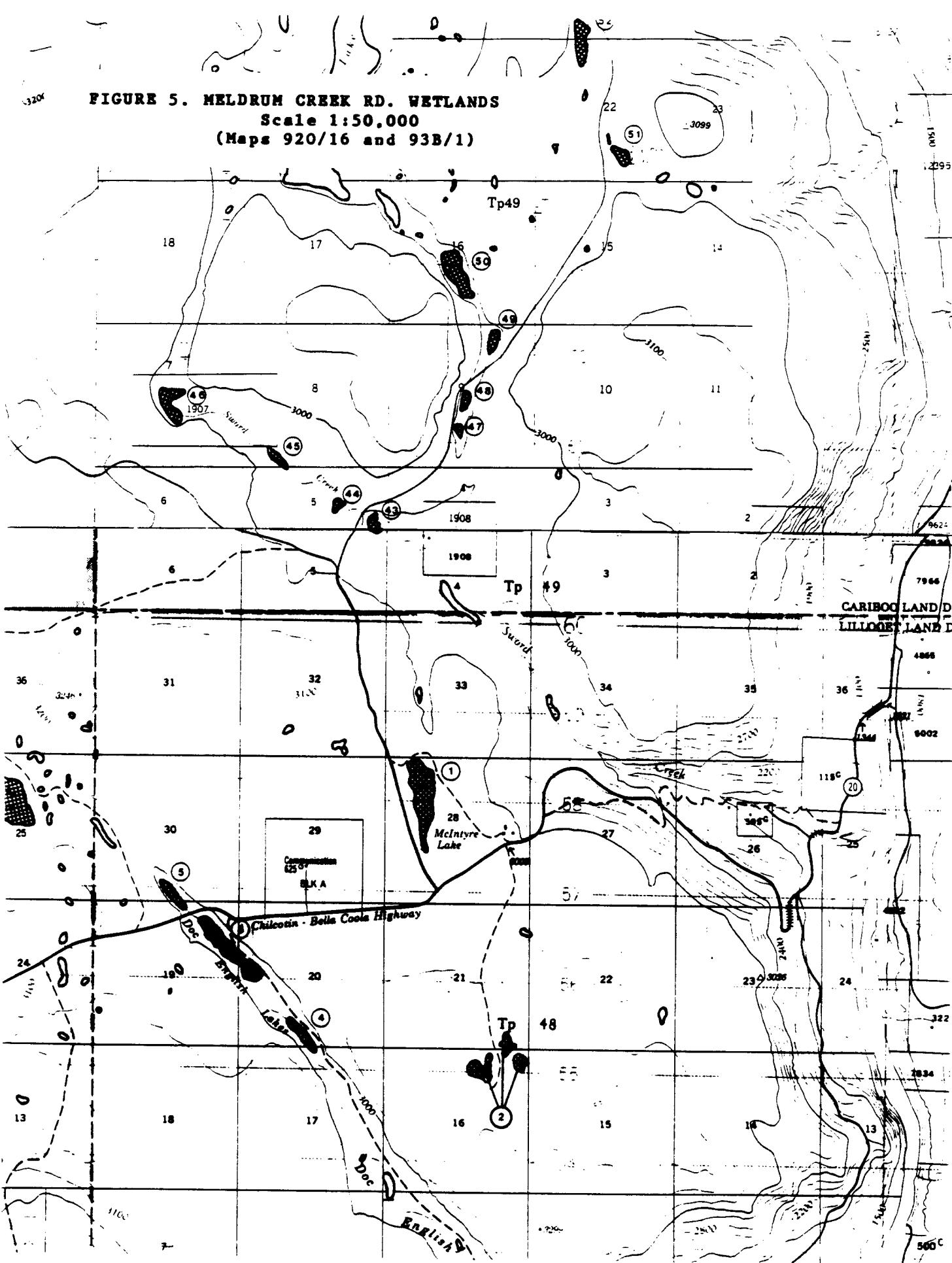


FIGURE 5. MELDRUM CREEK RD. WETLANDS

Scale 1:50,000

(Maps 920/16 and 93B/1)



In July 1984, 33 wetlands were sampled and by sweep net procedures only. In June and July 1985, 44 wetlands were sampled using all 3 techniques as described below.

Ten activity traps were used to sample 8 different wetlands. Five sampling stations were distributed at regular intervals around the shoreline of each wetland. At each station, a steel pole was driven into the bottom substrate at 0.5m and, depth permitting, 1.0m water depths. Each pole had an activity trap attached to it which was horizontally oriented and secured 0.3m below the surface. Each activity trap was constructed by securing a large funnel, with rubber straps and hooks, into the mouth of a 4 1 white plastic jar. After 24 hours, the contents of each trap were brought to the field lab where all invertebrates were immediately identified to major taxonomic group (using Pennak 1978), counted, and classified by size category (Table 1). Counts were converted to dry weights for selected taxa using conversion factors calculated for wetlands near 100 Mile House, British Columbia (G. Gauthier, pers. commun.; Table 2). Five replicate samples were taken during June and July 1985 on 3 of the 8 wetlands; 4 replicates were taken on the remaining 5 wetlands.

Chironomid larvae were obtained from bottom substrate cores taken at stations spaced around the perimeter of 44 wetlands. Three sampling stations were used on small wetlands (<2 ha) and 4 on large wetlands (>2 ha). At each station, samples were taken at 0.5m and, depth permitting, 1.0m water depths. The coring apparatus was a 1.5m rod with a metal tube (6.5cm diameter by 22cm long) attached. The average core length was 10cm. Core contents were brought to the field lab where they were hand-washed through a 0.5mm screen. All larvae were classified into 0-10mm and 10-20mm size classes and counted. Counts were converted to dry weights. The above procedure was followed twice during June and July 1985.

Sweep net (30cm diameter, 0.5mm mesh) samples were taken from the same 44 wetlands, once in July 1984 and twice in June and July 1985. Four sampling stations were used on small wetlands and 6 on large wetlands. Shoreline sampling stations (3 on small wetlands, 4 on large ones) were spaced near the perimeter of each wetland. At each shoreline station, 4 sweeps were taken at a water depth of 0.5m and 4 sweeps at 1.0m depth (2 just below water surface and 2 near the bottom). Each sweep covered a total of 2.0m distance (1.0m in one direction plus 1.0m in the opposite direction). Deep water sampling stations (1 on small wetlands, 2 on large ones) were located at the centre of each wetland and at each station 2 sweeps were taken near the surface and 2 sweeps at 1.0m depth. Due to the usually large number of organisms in the sweep net samples and to time and manpower limitations, the following abundance categories were used for field recording:

Code	Count Interval	Interval Mean	Code	Count Interval	Interval Mean
1	1	1	8	128-255	192
2	2-3	2.5	9	256-511	384
3	4-7	5.5	10	512-1023	768
4	8-15	11.5	11	1024-2047	1536
5	16-31	23.5	12	2048-4095	3071
6	32-63	47.5	13	4096-8191	4144
7	64-127	95.5	14	8192-16383	12288

Code counts were averaged using the interval means and numbers for selected taxa were converted to dry weights.

#### 4. Results

The invertebrate data are summarized below in Tables 3 through 25. Tables are grouped by sampling technique: Tables 3 to 13 summarize activity trap data, Tables 14 to 19 deal with chironomidae larvae found in bottom core samples, and Tables 20 to 25 summarize the results of our sweep net sampling.

Table 1. Major aquatic invertebrate taxonomic groups and their size classes for Riske Creek, 1985.

Taxon & Size Class		Taxon & Size Class	
Coleoptera larvae	0-10mm	Corixidae	0-5 mm
"	10-20mm	"	5-10mm
"	20-30mm	"	10-15mm
"	30-40mm		
"	40-50mm	Hydracarina	0-5 mm
		"	5-10mm
Anisoptera larvae	0-10mm		
"	10-20mm	Ephemeroptera	0-5 mm
"	20-30mm	"	5-10mm
"	30-40mm		
"	40-50mm	Chaoboridae larvae	
Zygoptera larvae	0-10mm	Diptera pupae	
"	10-20mm		
"	20-30mm	Cladocera	
Trichoptera larvae	0-10mm	Copepoda	
"	10-20mm		
"	20-30mm	Anostraca	
Chironomidae larvae	0-10mm	Gerridae	
"	10-20mm	Gyrinidae	
Gastropoda	0-10mm		
"	10-20mm	Collembolla	
"	20-30mm	Nematoda	
Hirudinea	20-30mm		
"	30-40mm	Platyhelminthes	
"	40-50mm	Annelida	
Coleoptera adult	0-5 mm		
"	5-10mm	Pelecypoda	
"	10-15mm		
"	15-20mm	Curculionidae	
Notonectidae	0-5 mm	Culicidae	
"	5-10mm		
"	10-15mm	Ostracoda	
"	15-20mm	Bellastomatidae	
Amphipoda	0-5 mm		
"	5-10mm	Amphibia (tadpoles)	
"	10-15mm		
"	15-20mm		

Table 2. Length interval (mm) to dry weight (mg) conversion factors for selected aquatic invertebrate taxa. (conversion factors supplied by G. Gauthier (unpubl. data)).

Taxonomic Group	10mm Interval Groups				
	0-10mm	10-20mm	20-30mm	30-40mm	40-50mm
Chironomidae larvae	0.47	0.96			
Trichoptera larvae	1.65	19.10	19.10		
Zygoptera larvae	3.27	12.70	12.70		
Anisoptera larvae	2.98	25.10	55.00	221.00	241.00
Hirudinea	2.02	44.20	73.00	109.40	143.90
Coleoptera larvae	2.13	4.82	23.40	63.60	133.40

	5mm Interval Groups				
	0-5mm	5-10mm	10-15mm	15-20mm	20-25mm
Curculionidae	1.39				
Chaoboridae larvae		0.56			
Ephemeroptera larvae	2.38	2.64			
Hydracarina	0.40	2.23			
Corixidae	0.79	4.13	8.44		
Amphipoda	0.90	5.00	10.50	22.60	
Notonectidae	2.07	8.31	20.90	40.90	
Coleoptera adult	2.38	14.50	29.10	82.10	360.00

Table 3. Dry weights (mg) of selected aquatic invertebrate taxa from activity traps set at 0.5m depths for 24 hours in selected Riske Creek wetlands, summer 1985. The selected invertebrate taxa are underlined below.

Wetland Number	Repetitions (Mean $\pm$ SD(n))					Total
	1	2	3	4	5	
13	653.6 $\pm$ 589.1( 5)	605.7 $\pm$ 190.0( 5)	1285.5 $\pm$ 429.3( 5)	863.2 $\pm$ 492.4( 5)		852.0 $\pm$ 496.3(20)
15	103.8 $\pm$ 73.0( 5)	148.6 $\pm$ 78.0( 7)	190.9 $\pm$ 96.4( 5)	240.4 $\pm$ 178.1( 5)	295.6 $\pm$ 150.3( 5)	192.4 $\pm$ 128.6(27)
18	339.2 $\pm$ 77.9( 5)	1576.1 $\pm$ 925.6( 5)	344.2 $\pm$ 116.0( 5)	179.2 $\pm$ 57.8( 5)		609.7 $\pm$ 719.4(20)
19	245.0 $\pm$ 156.2(10)*	163.1 $\pm$ 85.0(10)	204.7 $\pm$ 145.4(10)	252.0 $\pm$ 74.7(10)	190.5 $\pm$ 204.8( 9)	211.5 $\pm$ 138.2(49)
20	1222.4 $\pm$ 769.4( 5)	1024.3 $\pm$ 661.7( 5)	1952.7 $\pm$ 1108.8( 5)	767.1 $\pm$ 368.0( 5)	740.6 $\pm$ 78.0( 5)	1141.4 $\pm$ 777.3(25)
28	232.3 $\pm$ 88.6( 5)	295.3 $\pm$ 155.9( 5)	762.6 $\pm$ 564.1( 5)	505.3 $\pm$ 194.9( 5)		448.9 $\pm$ 356.4(20)
30	19.5 $\pm$ 10.8( 5)	38.6 $\pm$ 43.2( 5)	149.7 $\pm$ 158.2( 5)	227.1 $\pm$ 112.8( 5)		108.7 $\pm$ 126.0(20)
31	289.4 $\pm$ 43.1( 5)	317.6 $\pm$ 261.3( 5)	242.8 $\pm$ 162.8( 5)	259.2 $\pm$ 200.2( 5)		277.3 $\pm$ 172.2(20)

\* Wetland 19 was <1m deep and all samples were taken at .5m depths.

Taxonomic Groups Considered (Underlined):

<u>CLASS</u>	<u>ORDER</u>	<u>SUB-ORDER</u>	<u>FAMILY</u>
<u>Hirudinea</u>			
Insecta	Ephemeroptera		
	Odonata	Anisoptera	
		Zygoptera	
	Coleoptera-larvae		
	Coleoptera-adults		Circulionidae
	Trichoptera		
	Diptera		Chaoboridae
			Chironomidae
	Hemiptera		Corixidae
			Notonectidae
Arthropoda	Amphipoda		
Arachnida	Hydracarina		

Table 4. Dry weights (mg) of selected aquatic invertebrate taxa from activity traps set at 1.0m depths for 24 hours in selected Riske Creek wetlands, summer 1985. The selected invertebrate taxa are underlined below.

Wetland Number	Repetitions (Mean $\pm$ SD(n))					Total
	1	2	3	4	5	
13	917.9 $\pm$ 379.8( 5)	178.9 $\pm$ 98.7( 5)	436.8 $\pm$ 111.9( 5)	784.5 $\pm$ 289.0( 5)		579.5 $\pm$ 376.1(20)
15	124.7 $\pm$ 79.2( 5)	94.3 $\pm$ 17.2( 3)	55.2 $\pm$ 14.8( 5)	11.8 $\pm$ 10.0( 4)	142.8 $\pm$ 58.3( 5)	88.3 $\pm$ 65.8(22)
18	97.6 $\pm$ 47.9( 5)	189.7 $\pm$ 113.9( 5)	67.8 $\pm$ 35.2( 5)	52.1 $\pm$ 14.7( 5)		101.8 $\pm$ 80.7(20)
19	N/A	N/A	N/A	N/A	N/A	N/A
20	1395.1 $\pm$ 826.4( 5)	761.8 $\pm$ 464.2( 5)	835.0 $\pm$ 327.4( 5)	938.5 $\pm$ 478.7( 5)	1149.7 $\pm$ 1101.0( 5)	1016.0 $\pm$ 680.5(25)
28	31.4 $\pm$ 15.0( 5)	47.5 $\pm$ 22.1( 4)	240.9 $\pm$ 149.6( 5)	691.3 $\pm$ 364.0( 5)		263.6 $\pm$ 333.0(19)
30	15.9 $\pm$ 7.5( 5)	5.6 $\pm$ 3.1( 5)	42.4 $\pm$ 31.1( 5)	60.5 $\pm$ 48.8( 5)		31.1 $\pm$ 34.8(20)
31	333.3 $\pm$ 152.9( 4)	203.2 $\pm$ 55.3( 5)	124.5 $\pm$ 63.0( 5)	280.6 $\pm$ 196.9( 5)		230.2 $\pm$ 143.0(19)

N/A - Wetland 19 was shallow; no 1m depths were available for sampling.

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Taxonomic Groups Considered (Underlined):

<u>CLASS</u>	<u>ORDER</u>	<u>SUB-ORDER</u>	<u>FAMILY</u>
<u>Hirudinea</u>			
Insecta	<u>Ephemeroptera</u>		
	Odonata	<u>Anisoptera</u>	
		<u>Zygoptera</u>	
	<u>Coleoptera-larvae</u>		
	<u>Coleoptera-adults</u>		<u>Circulionidae</u>
	<u>Trichoptera</u>		
	Diptera		<u>Chaoboridae</u>
			<u>Chironomidae</u>
	<u>Hemiptera</u>		<u>Corixidae</u>
			<u>Notonectidae</u>
Arthropoda	<u>Amphipoda</u>		
Arachnida	<u>Hydracarina</u>		

Table 5. Dry weights (mg) of selected aquatic invertebrate taxa from activity traps at 0.5 plus 1.0m depths set for 24 hours in selected Riske Creek wetlands, summer 1985. The selected invertebrate taxa are underlined below.

Wetland Number	Repetitions (Mean $\pm$ SD(n))					Total
	1	2	3	4	5	
13	785.8 $\pm$ 487.6(10)	392.3 $\pm$ 266.4(10)	861.2 $\pm$ 536.3(10)	823.8 $\pm$ 382.9(10)		715.8 $\pm$ 456.0(40)
15	114.2 $\pm$ 72.6(10)	132.3 $\pm$ 69.3(10)	123.0 $\pm$ 96.7(10)	138.8 $\pm$ 174.4(9)	219.2 $\pm$ 134.3(10)	145.6 $\pm$ 116.5(49)
18	218.4 $\pm$ 141.2(10)	882.9 $\pm$ 959.4(10)	206.0 $\pm$ 166.6(10)	115.6 $\pm$ 77.9(10)		355.7 $\pm$ 567.0(40)
19	245.0 $\pm$ 156.2(10)	163.1 $\pm$ 85.0(10)	204.7 $\pm$ 145.4(10)	252.0 $\pm$ 74.7(10)	190.5 $\pm$ 204.8(9)	211.5 $\pm$ 138.2(49)
20	1308.7 $\pm$ 758.2(10)	893.0 $\pm$ 556.3(10)	1393.9 $\pm$ 970.1(10)	852.8 $\pm$ 412.6(10)	945.1 $\pm$ 766.8(10)	1078.7 $\pm$ 725.8(50)
28	131.9 $\pm$ 121.7(10)	185.2 $\pm$ 171.4(9)	501.8 $\pm$ 476.4(10)	598.3 $\pm$ 292.2(10)		358.6 $\pm$ 353.3(39)
30	17.7 $\pm$ 9.0(10)	22.1 $\pm$ 33.7(10)	96.0 $\pm$ 121.5(10)	143.8 $\pm$ 120.1(10)		69.9 $\pm$ 99.4(40)
31	309.0 $\pm$ 101.2(9)	260.4 $\pm$ 188.0(10)	183.7 $\pm$ 132.0(10)	269.9 $\pm$ 187.6(10)		254.4 $\pm$ 158.4(39)

13

Taxonomic Groups Considered (Underlined):

<u>CLASS</u>	<u>ORDER</u>	<u>SUB-ORDER</u>	<u>FAMILY</u>
<u>Hirudinea</u>			
Insecta	<u>Ephemeroptera</u>		
	Odonata	<u>Anisoptera</u>	
		<u>Zygoptera</u>	
	<u>Coleoptera-larvae</u>		
	<u>Coleoptera-adults</u>		<u>Circulionidae</u>
	<u>Trichoptera</u>		
	Diptera		<u>Chaoboridae</u>
			<u>Chironomidae</u>
	<u>Hemiptera</u>		<u>Corixidae</u>
			<u>Notonectidae</u>
Arthropoda	<u>Amphipoda</u>		
Arachnida	<u>Hydracarina</u>		

Table 6. Mean number ( $\bar{x} \pm SD$ ) of aquatic invertebrates, by taxon and size class, from activity traps set for 24 hours in Riske Creek wetland 13, summer 1985.

Taxon and size class	Date (n)			
	05/30( 10 )	06/03( 10 )	07/05( 10 )	07/25( 10 )
Coleoptera larvae 0-10mm	-	0.2 ± 0.6	0.3 ± 0.7	0.1 ± 0.3
" 10-20mm	-	0.2 ± 0.4	2.2 ± 2.5	-
" 20-30mm	0.3 ± 0.7	0.5 ± 0.5	1.5 ± 1.9	0.1 ± 0.3
" 30-40mm	-	-	2.4 ± 2.6	0.4 ± 0.7
" 40-50mm	-	1.4 ± 1.6	1.2 ± 1.5	1.1 ± 1.1
Anisoptera larvae 0-10mm	-	-	-	-
" 10-20mm	-	-	-	-
" 20-30mm	-	-	-	-
" 30-40mm	-	-	-	-
" 40-50mm	-	-	-	-
Zygoptera larvae 0-10mm	0.1 ± 0.3	-	-	0.3 ± 0.7
" 10-20mm	-	-	0.3 ± 0.5	-
" 20-30mm	-	-	-	-
Trichoptera larvae 0-10mm	-	-	-	-
" 10-20mm	-	-	-	-
" 20-30mm	-	-	-	-
Chironomidae larvae 0-10mm	-	-	0.3 ± 0.7	2.5 ± 2.6
" 10-20mm	-	-	0.2 ± 0.4	1.3 ± 1.2
Gastropoda 0-10mm	-	-	-	0.1 ± 0.3
" 10-20mm	-	-	-	-
" 20-30mm	-	-	-	-
Hirudinea 20-30mm	-	-	-	-
" 30-40mm	-	-	0.2 ± 0.4	0.1 ± 0.3
" 40-50mm	-	-	0.1 ± 0.3	0.2 ± 0.4
Coleoptera adult 0-5 mm	0.7 ± 1.1	-	0.6 ± 1.3	0.6 ± 1.0
" 5-10mm	-	0.2 ± 0.4	-	-
" 10-15mm	0.2 ± 0.6	-	0.1 ± 0.3	0.1 ± 0.3
" 15-20mm	-	0.2 ± 0.4	0.1 ± 0.3	0.6 ± 1.1
Notonectidae 0-5 mm	-	-	0.5 ± 0.7	-
" 5-10mm	-	0.2 ± 0.4	2.9 ± 5.4	-
" 10-15mm	0.2 ± 0.4	0.7 ± 1.1	0.7 ± 1.3	0.7 ± 1.1
" 15-20mm	-	-	0.1 ± 0.3	0.7 ± 1.5
Amphipoda 0-5 mm	6.3 ± 15.7	1.1 ± 2.8	17.0 ± 36.6	2.4 ± 3.1
" 5-10mm	0.6 ± 0.7	6.0 ± 10.1	17.6 ± 23.2	71.7 ± 34.4
" 10-15mm	24.2 ± 33.6	11.3 ± 6.8	27.1 ± 23.4	3.8 ± 3.5
" 15-20mm	22.3 ± 24.0	0.3 ± 0.9	-	4.8 ± 5.1
Corixidae 0-5 mm	-	-	7.1 ± 9.1	0.7 ± 0.7
" 5-10mm	-	0.1 ± 0.3	0.7 ± 1.1	0.6 ± 0.7
" 10-15mm	-	-	-	0.1 ± 0.3
Hydracarina 0-5 mm	-	-	1.6 ± 1.6	1.7 ± 2.1
" 5-10mm	-	-	0.6 ± 1.0	-
Ephemeroptera 0-5 mm	-	-	-	0.3 ± 0.5
" 5-10mm	-	-	-	0.5 ± 0.7
Chaoboridae	-	-	5.1 ± 4.4	7.2 ± 5.5
Diptera pupae	-	-	18.2 ± 40.1	-
Cladocera	-	9.0 ± 19.1	2825.0 ± 6067.4	502.0 ± 584.6
Copepoda	-	5.0 ± 12.7	95.1 ± 156.4	4.2 ± 4.4
Anostraca	-	-	-	-
Gerridae	-	-	-	-
Gyrinidae	-	-	-	-
Collembolla	-	-	-	-
Nematoda	-	-	-	-
Platyhelminthes	-	-	-	-
Annelida	-	-	-	-
Pelecypoda	-	-	-	-
Curculionidae	-	-	0.2 ± 0.4	-
Culicidae	-	-	-	-
Ostracoda	-	-	-	-
Bellastomatidae	-	-	-	-
Amphibia(Tadpole)	-	-	-	-

Table 7. Mean number ( $\bar{x} \pm SD$ ) of aquatic invertebrates, by taxon and size class, from activity traps set for 24 hours in Riske Creek wetland 15, summer 1985.

Taxon and size class	Date (n)				
	05/30( 10 )	06/03( 10 )	06/05( 10 )	07/05( 9 )	07/25( 10 )
Coleoptera larvae 0-10mm	-	-	0.2 ± 0.4	-	-
" 10-20mm	-	0.2 ± 0.4	0.2 ± 0.4	0.3 ± 0.7	-
" 20-30mm	-	0.2 ± 0.4	0.2 ± 0.6	0.1 ± 0.3	-
" 30-40mm	-	-	0.1 ± 0.3	0.1 ± 0.3	0.2 ± 0.6
" 40-50mm	-	0.1 ± 0.3	-	0.6 ± 1.0	0.1 ± 0.3
Anisoptera larvae 0-10mm	-	-	-	-	-
" 10-20mm	-	-	-	-	-
" 20-30mm	-	-	-	-	-
" 30-40mm	-	-	-	-	-
" 40-50mm	-	-	-	-	-
Zygoptera larvae 0-10mm	-	-	-	0.1 ± 0.3	0.2 ± 0.4
" 10-20mm	-	-	0.1 ± 0.3	-	-
" 20-30mm	-	-	-	-	-
Trichoptera larvae 0-10mm	-	-	-	-	-
" 10-20mm	-	-	-	-	-
" 20-30mm	-	-	-	-	-
Chironomidae larvae 0-10mm	0.2 ± 0.6	0.2 ± 0.4	2.2 ± 1.3	4.1 ± 5.9	1.0 ± 2.0
" 10-20mm	0.1 ± 0.3	0.2 ± 0.6	5.2 ± 6.0	1.3 ± 1.0	2.1 ± 1.9
Gastropoda 0-10mm	-	-	-	-	0.1 ± 0.3
" 10-20mm	-	-	-	-	-
" 20-30mm	-	-	-	-	-
Hirudinea 20-30mm	-	-	-	-	-
" 30-40mm	-	-	-	-	-
" 40-50mm	-	-	-	-	-
Coleoptera adult 0-5 mm	0.3 ± 0.5	0.1 ± 0.3	0.2 ± 0.4	0.1 ± 0.3	0.1 ± 0.3
" 5-10mm	0.4 ± 1.0	0.3 ± 0.5	2.2 ± 1.8	0.1 ± 0.3	0.1 ± 0.3
" 10-15mm	0.1 ± 0.3	-	-	-	-
" 15-20mm	-	0.1 ± 0.3	0.4 ± 0.7	-	0.1 ± 0.3
Notonectidae 0-5 mm	-	0.2 ± 0.6	0.1 ± 0.3	-	-
" 5-10mm	-	-	0.1 ± 0.3	1.4 ± 2.0	7.9 ± 4.0
" 10-15mm	2.2 ± 2.7	1.9 ± 2.4	0.2 ± 0.4	0.6 ± 1.0	3.5 ± 2.6
" 15-20mm	0.9 ± 1.9	-	-	-	-
Amphipoda 0-5 mm	-	1.2 ± 2.7	-	0.7 ± 1.3	0.3 ± 0.5
" 5-10mm	0.1 ± 0.3	2.1 ± 2.6	0.7 ± 1.6	0.4 ± 1.0	0.1 ± 0.3
" 10-15mm	-	0.6 ± 0.8	-	0.1 ± 0.3	0.1 ± 0.3
" 15-20mm	0.2 ± 0.4	0.3 ± 0.5	0.1 ± 0.3	-	0.1 ± 0.3
Corixidae 0-5 mm	-	0.4 ± 1.3	-	7.1 ± 7.4	0.8 ± 0.8
" 5-10mm	1.2 ± 1.5	1.1 ± 1.3	2.0 ± 1.2	2.8 ± 2.4	5.0 ± 5.6
" 10-15mm	-	-	0.3 ± 0.9	-	0.4 ± 0.5
Hydracarina 0-5 mm	2.0 ± 3.0	0.9 ± 1.2	0.9 ± 0.7	1.0 ± 1.0	1.1 ± 1.2
" 5-10mm	0.1 ± 0.3	0.1 ± 0.3	-	-	0.1 ± 0.3
Ephemeroptera 0-5 mm	-	-	-	-	-
" 5-10mm	-	-	-	-	-
Chaoboridae	19.1 ± 15.1	53.5 ± 24.1	28.2 ± 11.3	4.8 ± 3.3	21.3 ± 10.1
Diptera pupae	-	0.1 ± 0.3	0.2 ± 0.4	0.2 ± 0.4	-
Cladocera	-	-	-	0.3 ± 1.0	-
Copepoda	-	-	0.5 ± 1.1	0.4 ± 1.0	-
Anostraca	-	-	-	-	-
Gerridae	-	-	-	-	-
Gyrinidae	-	-	-	-	-
Collembolla	-	-	-	-	-
Nematoda	-	-	-	-	-
Platyhelminthes	-	-	-	-	-
Annelida	-	-	-	-	-
Pelecypoda	-	-	-	-	-
Curculionidae	0.1 ± 0.3	-	-	-	-
Culicidae	-	-	-	-	-
Ostracoda	-	-	-	-	-
Bellastomatidae	-	-	-	-	-
Amphibia(Tadpole)	-	-	-	-	-

Table 8. Mean number ( $\bar{x} \pm SD$ ) of aquatic invertebrates, by taxon and size class, from activity traps set for 24 hours in Riske Creek wetland 18, summer 1985.

Taxon and size class	Date (n)			
	06/07( 10 )	06/09( 10 )	07/03( 10 )	07/28( 10 )
Coleoptera larvae	0-10mm	0.1 ± 0.3	-	0.3 ± 0.5
"	10-20mm	-	0.6 ± 0.8	0.6 ± 1.1
"	20-30mm	0.2 ± 0.4	0.1 ± 0.3	-
"	30-40mm	0.5 ± 1.1	0.1 ± 0.3	-
"	40-50mm	-	-	-
Anisoptera larvae	0-10mm	-	-	-
"	10-20mm	-	-	-
"	20-30mm	-	-	-
"	30-40mm	-	-	-
"	40-50mm	-	-	-
Zygoptera larvae	0-10mm	-	0.2 ± 0.4	1.7 ± 1.1
"	10-20mm	0.2 ± 0.4	1.7 ± 1.5	0.9 ± 1.4
"	20-30mm	0.3 ± 0.7	0.1 ± 0.3	-
Trichoptera larvae	0-10mm	-	-	1.0 ± 0.9
"	10-20mm	0.2 ± 0.6	-	0.9 ± 1.0
"	20-30mm	-	-	-
Chironomidae larvae	0-10mm	2.4 ± 2.4	0.4 ± 0.7	11.2 ± 12.3
"	10-20mm	0.6 ± 1.1	0.6 ± 1.1	0.3 ± 0.7
Gastropoda	0-10mm	-	-	-
"	10-20mm	-	-	-
"	20-30mm	-	-	-
Hirudinea	20-30mm	-	-	-
"	30-40mm	-	-	-
"	40-50mm	-	-	-
Coleoptera adult	0-5 mm	1.2 ± 1.3	2.1 ± 2.2	1.8 ± 1.5
"	5-10mm	1.6 ± 2.6	0.5 ± 0.8	0.2 ± 0.4
"	10-15mm	0.1 ± 0.3	0.1 ± 0.3	-
"	15-20mm	-	-	-
Notonectidae	0-5 mm	-	-	-
"	5-10mm	-	-	0.6 ± 1.1
"	10-15mm	0.5 ± 0.7	0.3 ± 0.7	0.5 ± 0.8
"	15-20mm	-	-	2.5 ± 2.3
Amphipoda	0-5 mm	0.1 ± 0.3	-	46.8 ± 69.8
"	5-10mm	24.2 ± 22.1	162.6 ± 190.8	20.7 ± 18.8
"	10-15mm	-	-	2.7 ± 4.7
"	15-20mm	-	-	0.2 ± 0.4
Corixidae	0-5 mm	0.8 ± 1.0	2.4 ± 4.1	5.5 ± 6.9
"	5-10mm	0.9 ± 1.9	1.4 ± 1.2	1.4 ± 2.0
"	10-15mm	-	-	1.2 ± 1.3
Hydracarina	0-5 mm	8.9 ± 3.5	7.8 ± 8.2	1.9 ± 3.1
"	5-10mm	-	0.2 ± 0.4	0.2 ± 0.4
Ephemeroptera	0-5 mm	-	-	-
"	5-10mm	-	-	0.1 ± 0.3
Chaoboridae		1.6 ± 1.4	1.0 ± 1.4	-
Diptera pupae		0.7 ± 0.8	1.0 ± 1.2	0.1 ± 0.3
Cladocera		847.0 ± 1339.2	592.0 ± 406.7	3434.0 ± 3753.9
Copepoda		-	-	0.5 ± 0.8
Anostraca		-	-	-
Gerridae		-	-	-
Gyrinidae		-	-	-
Collembolla		-	-	-
Nematoda		-	-	-
Platyhelminthes		-	-	-
Amelida		-	-	-
Pelecypoda		-	-	-
Curculionidae		-	-	-
Culicidae		-	-	-
Ostracoda		-	-	-
Bellastomatidae		-	-	-
Amphibia(Tadpole)		-	-	-

Table 9. Mean number ( $\bar{x} \pm SD$ ) of aquatic invertebrates, by taxon and size class, from activity traps set for 24 hours in Riske Creek wetland 19, summer 1985.

Taxon and size class	Date (n)				
	05/30( 10 )	06/03( 10 )	06/05( 10 )	07/05( 10 )	07/26( 9 )
Coleoptera larvae	0-10mm	-	-	-	0.1 ± 0.3
"	10-20mm	-	-	-	0.2 ± 0.4
"	20-30mm	-	-	-	0.1 ± 0.3
"	30-40mm	-	-	-	-
"	40-50mm	-	-	-	0.4 ± 1.3
Anisoptera larvae	0-10mm	0.1 ± 0.3	0.1 ± 0.3	-	-
"	10-20mm	-	-	-	-
"	20-30mm	-	-	-	-
"	30-40mm	-	-	-	-
"	40-50mm	0.2 ± 0.6	-	-	-
Zygoptera larvae	0-10mm	0.6 ± 1.1	0.1 ± 0.3	0.2 ± 0.4	2.8 ± 2.5
"	10-20mm	1.4 ± 1.7	2.1 ± 1.9	0.6 ± 1.1	1.0 ± 0.8
"	20-30mm	0.2 ± 0.6	0.2 ± 0.6	0.1 ± 0.3	0.3 ± 0.7
Trichoptera larvae	0-10mm	0.1 ± 0.3	0.1 ± 0.3	-	-
"	10-20mm	0.3 ± 0.7	-	0.1 ± 0.3	-
"	20-30mm	-	-	0.1 ± 0.3	-
Chironomidae larvae	0-10mm	0.1 ± 0.3	-	-	0.6 ± 0.8
"	10-20mm	-	-	-	-
Gastropoda	0-10mm	0.7 ± 0.8	0.5 ± 0.7	0.3 ± 0.7	0.1 ± 0.3
"	10-20mm	-	0.1 ± 0.3	-	-
"	20-30mm	-	-	-	-
Hirudinea	20-30mm	0.1 ± 0.3	0.1 ± 0.3	0.2 ± 0.4	-
"	30-40mm	-	0.6 ± 1.1	0.1 ± 0.3	0.1 ± 0.3
"	40-50mm	0.6 ± 0.8	-	0.2 ± 0.4	-
Coleoptera adult	0-5 mm	1.6 ± 1.2	1.9 ± 1.5	1.0 ± 1.4	1.0 ± 0.8
"	5-10mm	3.7 ± 3.1	3.3 ± 3.1	2.1 ± 2.0	1.8 ± 1.6
"	10-15mm	0.2 ± 0.6	-	-	0.1 ± 0.3
"	15-20mm	-	0.1 ± 0.3	0.4 ± 0.5	0.2 ± 0.4
Notonectidae	0-5 mm	-	-	-	0.1 ± 0.3
"	5-10mm	-	0.1 ± 0.3	-	0.3 ± 0.7
"	10-15mm	0.1 ± 0.3	0.1 ± 0.3	0.1 ± 0.3	-
"	15-20mm	-	-	-	-
Amphipoda	0-5 mm	-	-	-	2.7 ± 3.4
"	5-10mm	-	-	0.1 ± 0.3	1.1 ± 1.1
"	10-15mm	0.2 ± 0.6	0.4 ± 1.0	0.3 ± 0.7	4.2 ± 4.7
"	15-20mm	0.6 ± 1.3	0.2 ± 0.4	3.5 ± 3.3	4.2 ± 2.9
Corixidae	0-5 mm	-	0.6 ± 1.3	0.1 ± 0.3	0.6 ± 0.8
"	5-10mm	2.2 ± 2.6	0.7 ± 0.9	0.3 ± 0.9	1.8 ± 2.3
"	10-15mm	0.2 ± 0.4	-	-	-
Hydracarina	0-5 mm	10.1 ± 8.8	15.2 ± 12.2	2.1 ± 2.6	12.9 ± 12.4
"	5-10mm	-	-	-	0.8 ± 0.8
Ephemeroptera	0-5 mm	0.3 ± 0.5	0.1 ± 0.3	0.1 ± 0.3	-
"	5-10mm	-	0.1 ± 0.3	-	0.1 ± 0.3
Chaoboridae	-	-	0.1 ± 0.3	-	1.1 ± 2.1
Diptera pupae	-	-	-	-	1.3 ± 2.5
Cladocera	-	14.6 ± 30.7	29.0 ± 44.6	8.0 ± 8.2	14.9 ± 30.6
Copepoda	-	131.5 ± 306.6	37.9 ± 59.2	19.4 ± 15.3	20.7 ± 46.2
Anostraca	-	-	-	-	-
Gerridae	-	-	-	-	-
Gyrinidae	-	-	-	-	-
Collembolla	-	-	-	-	-
Nematoda	-	-	0.2 ± 0.4	-	-
Platyhelminthes	-	-	-	-	-
Annelida	-	-	-	-	-
Pelecypoda	-	-	-	-	-
Curculionidae	-	1.2 ± 1.5	1.9 ± 2.4	0.3 ± 0.7	1.4 ± 2.3
Culicidae	-	-	-	-	-
Ostracoda	-	-	0.8 ± 1.8	-	0.7 ± 0.8
Bellastomatidae	-	-	-	-	0.2 ± 0.4
Amphibia(Tadpole)	-	-	37.5 ± 87.1	0.2 ± 0.4	2.0 ± 4.0

Table 10. Mean number ( $\bar{x} \pm SD$ ) of aquatic invertebrates, by taxon and size class, from activity traps set for 24 hours in Riske Creek wetland 20, summer 1985.

Taxon and size class	Date (n)				
	05/30( 10 )	06/03( 10 )	06/05( 10 )	07/05( 10 )	07/25( 10 )
Coleoptera larvae					
" 0-10mm	0.1 ± 0.3	0.5 ± 1.0	0.6 ± 0.8	3.6 ± 1.8	0.1 ± 0.3
" 10-20mm	0.2 ± 0.4	0.3 ± 0.7	0.6 ± 0.8	2.9 ± 2.3	1.3 ± 1.2
" 20-30mm	0.3 ± 0.5	0.3 ± 0.5	0.3 ± 0.7	0.1 ± 0.3	0.1 ± 0.3
" 30-40mm	-	0.1 ± 0.3	0.3 ± 0.5	-	0.1 ± 0.3
" 40-50mm	-	-	-	0.6 ± 0.8	-
Anisoptera larvae					
" 0-10mm	-	-	-	-	-
" 10-20mm	-	-	-	-	-
" 20-30mm	-	-	-	-	-
" 30-40mm	-	-	-	-	-
" 40-50mm	-	-	-	-	-
Zygoptera larvae					
" 0-10mm	-	-	-	0.2 ± 0.4	1.0 ± 1.4
" 10-20mm	0.5 ± 1.0	0.1 ± 0.3	0.5 ± 0.7	0.8 ± 0.6	0.1 ± 0.3
" 20-30mm	1.0 ± 1.9	-	0.2 ± 0.6	0.1 ± 0.3	-
Trichoptera larvae					
" 0-10mm	-	-	-	-	-
" 10-20mm	-	-	-	-	-
" 20-30mm	-	-	-	-	-
Chironomidae larvae					
" 0-10mm	-	0.3 ± 0.9	4.9 ± 5.8	13.1 ± 19.7	0.1 ± 0.3
" 10-20mm	0.1 ± 0.3	-	3.9 ± 2.5	1.2 ± 1.4	0.2 ± 0.6
Gastropoda					
" 0-10mm	-	-	-	-	-
" 10-20mm	-	-	-	-	-
" 20-30mm	-	-	-	-	-
Hirudinea					
" 20-30mm	-	-	-	-	-
" 30-40mm	-	-	-	-	-
" 40-50mm	-	-	-	-	-
Coleoptera adult					
" 0-5 mm	3.3 ± 2.9	2.2 ± 2.2	0.5 ± 1.0	1.3 ± 2.1	2.2 ± 2.8
" 5-10mm	0.4 ± 0.8	1.5 ± 1.3	1.1 ± 1.2	0.8 ± 1.5	0.9 ± 1.1
" 10-15mm	0.1 ± 0.3	0.1 ± 0.3	-	-	0.1 ± 0.3
" 15-20mm	0.1 ± 0.3	-	0.2 ± 0.4	-	0.4 ± 0.7
Notonectidae					
" 0-5 mm	-	0.1 ± 0.3	-	0.2 ± 0.4	-
" 5-10mm	-	0.1 ± 0.3	-	1.2 ± 1.7	2.1 ± 2.7
" 10-15mm	0.1 ± 0.3	0.3 ± 0.7	-	-	2.4 ± 2.5
" 15-20mm	0.2 ± 0.4	-	-	-	0.2 ± 0.6
Amphipoda					
" 0-5 mm	9.2 ± 15.7	17.8 ± 27.6	1.3 ± 2.8	66.3 ± 66.1	79.4 ± 46.9
" 5-10mm	129.4 ± 106.5	121.9 ± 87.7	70.4 ± 40.7	68.7 ± 72.2	125.5 ± 134.7
" 10-15mm	28.7 ± 43.7	16.8 ± 13.0	31.9 ± 31.6	17.3 ± 15.7	2.4 ± 3.4
" 15-20mm	12.7 ± 15.9	1.5 ± 3.8	27.6 ± 47.7	5.0 ± 5.1	2.8 ± 3.4
Corixidae					
" 0-5 mm	0.2 ± 0.6	0.2 ± 0.6	-	1.5 ± 2.5	0.2 ± 0.4
" 5-10mm	0.3 ± 0.5	0.4 ± 0.5	0.1 ± 0.3	0.7 ± 0.9	1.3 ± 1.3
" 10-15mm	-	-	-	-	-
Hydracarina					
" 0-5 mm	-	-	-	0.2 ± 0.4	1.0 ± 1.2
" 5-10mm	-	-	-	0.2 ± 0.4	0.3 ± 0.5
Ephemeroptera					
" 0-5 mm	-	-	-	-	-
" 5-10mm	-	-	-	-	0.1 ± 0.3
Chaoboridae	1.1 ± 1.3	1.2 ± 1.7	4.7 ± 7.2	3.3 ± 6.7	1.9 ± 2.5
Diptera pupae	-	0.3 ± 0.5	0.2 ± 0.4	-	-
Cladocera	7.2 ± 11.5	171.0 ± 138.4	1145.0 ± 1750.6	4880.0 ± 5197.8	0.5 ± 1.3
Copepoda	27.0 ± 41.4	4.0 ± 12.6	-	-	1.2 ± 3.2
Anostraca	-	-	-	-	-
Gerridae	-	-	-	-	-
Gyrinidae	-	-	-	-	-
Collembolla	-	-	-	-	-
Nematoda	-	-	-	-	-
Platyhelminthes	-	-	-	-	-
Annelida	-	-	-	-	-
Pelecypoda	-	-	-	-	-
Curculionidae	0.5 ± 1.3	-	-	-	-
Culicidae	-	-	-	-	-
Ostracoda	-	-	-	-	-
Bellastomatidae	-	-	-	-	-
Amphibia(Tadpole)	-	-	-	-	-

Table 11. Mean number ( $\bar{x} \pm SD$ ) of aquatic invertebrates, by taxon and size class from activity traps set for 24 hours in Riske Creek wetland 28, summer 1985.

Taxon and size class	Date (n)			
	06/06( 10 )	06/09( 9 )	07/03( 10 )	07/28( 10 )
Coleoptera larvae 0-10mm	0.7 ± 0.9	0.3 ± 0.5	0.8 ± 1.2	0.1 ± 0.3
" 10-20mm	0.4 ± 0.7	1.1 ± 1.6	7.8 ± 7.9	-
" 20-30mm	0.6 ± 0.7	0.7 ± 0.7	0.1 ± 0.3	-
" 30-40mm	0.3 ± 0.7	0.2 ± 0.7	0.3 ± 0.5	-
" 40-50mm	0.1 ± 0.3	-	0.1 ± 0.3	-
Anisoptera larvae 0-10mm	-	-	-	-
" 10-20mm	-	-	-	0.5 ± 1.0
" 20-30mm	-	-	-	0.2 ± 0.4
" 30-40mm	-	-	-	-
" 40-50mm	-	-	-	-
Zygoptera larvae 0-10mm	-	-	0.3 ± 0.7	0.3 ± 0.7
" 10-20mm	0.1 ± 0.3	0.7 ± 0.7	0.6 ± 0.8	1.1 ± 1.2
" 20-30mm	-	-	-	-
Trichoptera larvae 0-10mm	-	-	-	-
" 10-20mm	-	-	-	-
" 20-30mm	-	-	-	-
Chironomidae larvae 0-10mm	2.6 ± 2.5	0.6 ± 0.9	26.0 ± 21.7	2.5 ± 2.8
" 10-20mm	0.3 ± 0.5	1.4 ± 1.2	12.6 ± 10.6	1.3 ± 2.1
Gastropoda 0-10mm	-	-	-	0.1 ± 0.3
" 10-20mm	-	-	-	-
" 20-30mm	-	-	-	-
Hirudinea 20-30mm	-	-	-	-
" 30-40mm	-	-	-	-
" 40-50mm	-	-	-	-
Coleoptera adult 0-5 mm	1.7 ± 1.5	3.4 ± 3.6	9.6 ± 7.8	1.8 ± 2.5
" 5-10mm	0.4 ± 0.7	1.3 ± 1.8	1.0 ± 1.5	2.4 ± 2.1
" 10-15mm	0.6 ± 1.6	0.9 ± 2.0	0.2 ± 0.4	0.5 ± 1.3
" 15-20mm	-	0.1 ± 0.3	2.7 ± 4.5	0.2 ± 0.4
Notonectidae 0-5 mm	0.5 ± 0.7	-	0.1 ± 0.3	-
" 5-10mm	-	-	0.3 ± 0.7	1.6 ± 2.2
" 10-15mm	0.2 ± 0.4	0.1 ± 0.3	-	0.5 ± 0.7
" 15-20mm	-	-	-	0.1 ± 0.3
Amphipoda 0-5 mm	-	0.2 ± 0.4	46.0 ± 36.0	6.1 ± 10.5
" 5-10mm	8.0 ± 6.7	13.0 ± 17.3	8.4 ± 6.2	60.1 ± 35.7
" 10-15mm	0.1 ± 0.3	-	-	11.7 ± 35.6
" 15-20mm	-	-	-	-
Corixidae 0-5 mm	1.6 ± 2.2	2.9 ± 3.2	28.6 ± 29.1	5.2 ± 6.2
" 5-10mm	0.2 ± 0.4	0.8 ± 1.0	2.5 ± 2.5	3.6 ± 3.8
" 10-15mm	0.1 ± 0.3	-	0.1 ± 0.3	0.3 ± 0.9
Hydracarina 0-5 mm	4.1 ± 3.5	3.4 ± 4.3	2.8 ± 1.9	8.6 ± 7.7
" 5-10mm	0.1 ± 0.3	0.6 ± 0.7	3.1 ± 2.9	1.0 ± 1.4
Ephemeroptera 0-5 mm	-	-	-	0.1 ± 0.3
" 5-10mm	-	-	0.4 ± 0.7	0.3 ± 0.5
Chaoboridae	0.8 ± 1.0	0.7 ± 1.0	0.8 ± 0.9	3.8 ± 2.9
Diptera pupae	0.3 ± 0.7	0.9 ± 0.8	0.7 ± 1.1	0.1 ± 0.3
Cladocera	123.0 ± 86.7	388.9 ± 213.3	1080.0 ± 772.5	878.5 ± 1372.2
Copepoda	8.3 ± 15.5	-	7.9 ± 18.6	1.4 ± 3.1
Anostraca	-	-	-	-
Gerridae	-	-	-	-
Gyrinidae	-	-	-	-
Collembola	-	-	-	-
Nematoda	-	-	-	-
Platyhelminthes	-	-	-	-
Amnelida	-	-	-	-
Pelecypoda	-	-	-	-
Circulionidae	0.1 ± 0.3	-	-	-
Culicidae	-	-	-	-
Ostracoda	-	-	-	-
Bellastomatidae	-	-	-	-
Amphidida (Tadpole)	-	-	-	-

Table 12. Mean number ( $\bar{x} \pm SD$ ) of aquatic invertebrates, by taxon and size class, from activity traps set for 24 hours in Riske Creek wetland 30, summer 1985.

Taxon and size class	Date (n)			
	06/06( 10 )	06/09( 10 )	07/03( 10 )	07/28( 10 )
Coleoptera larvae 0-10mm	-	-	0.1 ± 0.3	-
" 10-20mm	-	-	0.2 ± 0.4	-
" 20-30mm	-	-	-	-
" 30-40mm	-	-	-	-
" 40-50mm	-	-	-	-
Anisoptera larvae 0-10mm	-	-	-	-
" 10-20mm	-	-	-	-
" 20-30mm	-	-	-	-
" 30-40mm	-	-	-	-
" 40-50mm	-	-	-	-
Zygoptera larvae 0-10mm	0.3 ± 0.5	0.3 ± 0.5	0.6 ± 0.5	-
" 10-20mm	0.3 ± 0.5	0.3 ± 0.7	0.2 ± 0.4	0.5 ± 0.5
" 20-30mm	-	-	-	-
Trichoptera larvae 0-10mm	-	-	-	-
" 10-20mm	-	-	-	-
" 20-30mm	-	-	-	-
Chironomidae larvae 0-10mm	1.6 ± 2.3	1.2 ± 0.9	4.0 ± 7.7	0.3 ± 0.7
" 10-20mm	-	-	0.2 ± 0.4	0.1 ± 0.3
Gastropoda 0-10mm	-	-	-	-
" 10-20mm	-	-	-	-
" 20-30mm	-	-	-	-
Hirudinea 20-30mm	-	-	-	-
" 30-40mm	-	-	-	-
" 40-50mm	-	-	-	-
Coleoptera adult 0-5 mm	0.2 ± 0.4	0.1 ± 0.3	0.1 ± 0.3	-
" 5-10mm	0.1 ± 0.3	-	0.3 ± 0.5	-
" 10-15mm	-	0.1 ± 0.3	-	-
" 15-20mm	-	-	-	-
Notonectidae 0-5 mm	0.5 ± 1.1	-	-	-
" 5-10mm	-	-	-	-
" 10-15mm	-	-	-	-
" 15-20mm	-	-	-	-
Amphipoda 0-5 mm	-	-	-	-
" 5-10mm	-	0.1 ± 0.3	0.1 ± 0.3	-
" 10-15mm	-	-	-	-
" 15-20mm	-	-	-	-
Corixidae 0-5 mm	7.7 ± 6.6	8.8 ± 8.5	24.7 ± 22.2	8.2 ± 9.4
" 5-10mm	0.6 ± 0.8	1.4 ± 4.1	15.3 ± 27.4	31.6 ± 28.0
" 10-15mm	-	-	-	-
Hydracarina 0-5 mm	0.6 ± 0.8	0.4 ± 0.8	0.1 ± 0.3	0.6 ± 0.7
" 5-10mm	-	-	0.1 ± 0.3	-
Ephemeroptera 0-5 mm	-	-	-	-
" 5-10mm	-	-	-	-
Chaoboridae	-	-	-	-
Diptera pupae	0.5 ± 1.3	0.3 ± 0.7	0.3 ± 0.5	-
Cladocera	3.4 ± 4.4	4.2 ± 6.4	-	-
Copepoda	934.5 ± 446.4	3210.0 ± 2479.9	1380.0 ± 641.3	692.0 ± 571.2
Anostraca	0.4 ± 0.7	0.2 ± 0.6	-	-
Gerridae	-	-	-	-
Gyrinidae	-	-	-	-
Collembolla	-	-	-	-
Nematoda	-	-	-	-
Platyhelminthes	-	-	-	-
Annelida	-	-	-	-
Pelecypoda	-	-	-	-
Circulionidae	-	-	-	-
Culicidae	0.1 ± 0.3	2.4 ± 5.9	-	-
Ostracoda	-	-	-	-
Bellastomatidae	-	-	-	-
Amphibia(Tadpole)	-	-	-	-

Table 13. Mean number ( $\bar{x} \pm SD$ ) of aquatic invertebrates, by taxon and size class, from activity traps set for 24 hours in Riske Creek wetland 31, summer 1985.

Taxon and size class	Date (n)			
	06/07( 9 )	06/09( 10 )	07/03( 10 )	07/28( 10 )
Coleoptera larvae 0-10mm	-	-	1.2 ± 2.2	-
" 10-20mm	-	-	0.2 ± 0.6	0.1 ± 0.3
" 20-30mm	-	0.1 ± 0.3	0.1 ± 0.3	0.1 ± 0.3
" 30-40mm	-	-	-	0.1 ± 0.3
" 40-50mm	-	-	-	-
Anisoptera larvae 0-10mm	-	-	-	-
" 10-20mm	-	-	-	-
" 20-30mm	-	-	-	-
" 30-40mm	-	-	-	-
" 40-50mm	-	-	-	-
Zygoptera larvae 0-10mm	-	-	-	0.5 ± 0.5
" 10-20mm	-	-	-	-
" 20-30mm	-	-	-	-
Trichoptera larvae 0-10mm	0.4 ± 0.7	0.1 ± 0.3	-	-
" 10-20mm	-	-	-	-
" 20-30mm	-	-	-	-
Chironomidae larvae 0-10mm	-	-	-	-
" 10-20mm	-	-	-	-
Gastropoda 0-10mm	-	-	-	-
" 10-20mm	-	-	-	-
" 20-30mm	-	-	-	-
Hirudinea 20-30mm	0.2 ± 0.4	0.6 ± 0.8	1.0 ± 0.8	0.9 ± 1.5
" 30-40mm	1.0 ± 1.2	0.3 ± 0.7	0.1 ± 0.3	0.1 ± 0.3
" 40-50mm	0.1 ± 0.3	-	0.1 ± 0.3	0.3 ± 0.5
Coleoptera adult 0-5 mm	0.2 ± 0.4	0.1 ± 0.3	0.1 ± 0.3	0.1 ± 0.3
" 5-10mm	0.1 ± 0.3	0.3 ± 0.5	0.3 ± 0.5	0.2 ± 0.4
" 10-15mm	-	0.1 ± 0.3	0.3 ± 0.5	-
" 15-20mm	-	-	-	0.1 ± 0.3
Notonectidae 0-5 mm	-	-	-	-
" 5-10mm	-	-	-	-
" 10-15mm	0.1 ± 0.3	0.5 ± 1.0	-	-
" 15-20mm	-	-	-	-
Amphipoda 0-5 mm	1.2 ± 2.3	4.1 ± 6.4	42.0 ± 48.8	-
" 5-10mm	9.2 ± 11.3	26.7 ± 26.1	1.8 ± 2.6	16.4 ± 9.4
" 10-15mm	11.9 ± 11.7	5.1 ± 3.2	5.2 ± 6.2	7.2 ± 4.3
" 15-20mm	1.6 ± 2.1	-	-	0.2 ± 0.6
Corixidae 0-5 mm	-	-	0.6 ± 1.0	0.6 ± 1.0
" 5-10mm	-	0.1 ± 0.3	-	-
" 10-15mm	-	-	-	-
Hydracarina 0-5 mm	2.6 ± 2.1	0.9 ± 1.3	0.3 ± 0.9	1.1 ± 1.9
" 5-10mm	-	-	-	-
Ephemeroptera 0-5 mm	0.1 ± 0.3	-	-	0.6 ± 1.3
" 5-10mm	0.1 ± 0.3	-	-	0.8 ± 1.3
Chaoboridae	-	-	0.1 ± 0.3	2.3 ± 0.8
Diptera pupae	-	-	-	-
Cladocera	0.7 ± 1.4	0.1 ± 0.3	2.1 ± 3.8	-
Copepoda	7.8 ± 8.4	9.1 ± 9.8	16.1 ± 10.5	74.8 ± 50.8
Anostraca	-	-	-	-
Gerridae	-	-	-	-
Gyrinidae	-	-	-	-
Collembolla	-	-	-	-
Nematoda	-	-	-	-
Platyhelminthes	-	-	-	-
Amelida	-	-	-	-
Pelecypoda	-	-	-	-
Curculionidae	-	-	-	-
Culicidae	-	-	-	-
Ostracoda	-	-	-	-
Bellastomatidae	-	-	-	-
Amphibia(Tadpole)	-	-	-	-

Table 14. Dry weight (mg) of chironomidae larvae in core samples taken at 0.5m depths from selected Riske Creek wetlands, summer 1985.

Wetland Number	Repetitions (mean $\pm$ SD(n))			Total
	1	2	3	
1	5.8 $\pm$ 8.4( 3)	0.5 $\pm$ 0.5( 4)		2.8 $\pm$ 5.6( 7)
3	2.5 $\pm$ 0.8( 4)	2.0 $\pm$ 2.2( 4)		2.3 $\pm$ 1.6( 8)
4	22.1 $\pm$ 22.4( 4)	12.6 $\pm$ 2.4( 2)		18.9 $\pm$ 18.1( 6)
6	14.2 $\pm$ 13.1( 4)	18.9 $\pm$ 12.4( 4)		16.6 $\pm$ 12.1( 8)
7	0.7 $\pm$ 1.4( 4)	0.9 $\pm$ 0.7( 4)		0.8 $\pm$ 1.0( 8)
8	25.8 $\pm$ 12.9( 4)	38.3 $\pm$ 17.0( 4)		32.1 $\pm$ 15.5( 8)
10	8.4 $\pm$ 6.9( 3)	14.7 $\pm$ 4.9( 3)		11.5 $\pm$ 6.4( 6)
11	15.0 $\pm$ 5.7( 4)	16.8 $\pm$ 10.5( 4)		15.9 $\pm$ 7.9( 8)
13	13.5 $\pm$ 11.6( 7)	9.8 $\pm$ 5.2( 3)	36.9 $\pm$ 6.4( 2)	16.5 $\pm$ 13.3(12)
14	27.5 $\pm$ 19.3( 3)	23.1 $\pm$ 16.8( 3)		25.3 $\pm$ 16.4( 6)
15	32.1 $\pm$ 17.5( 4)	27.2 $\pm$ 26.7( 4)	39.1 $\pm$ 36.7( 4)	32.8 $\pm$ 25.9(12)
16	1.5 $\pm$ 2.0(11)	0.5 $\pm$ 0.4( 4)		1.2 $\pm$ 1.8(15)
18	13.4 $\pm$ 9.5( 9)	14.3 $\pm$ 3.7( 4)	19.9 $\pm$ 12.3( 4)	15.1 $\pm$ 9.1(17)
19	0.5 $\pm$ 0.7( 8)	1.9 $\pm$ 1.2( 3)	6.6 $\pm$ 5.7( 3)	2.1 $\pm$ 3.4(14)
20	23.2 $\pm$ 11.0( 4)	31.4 $\pm$ 21.9( 4)	72.5 $\pm$ 8.4( 4)	42.4 $\pm$ 26.3(12)
22	7.4 $\pm$ 4.6( 9)	40.4 $\pm$ 59.6( 4)		17.6 $\pm$ 34.0(13)
23	2.5 $\pm$ 3.1( 3)	0.2 $\pm$ 0.3( 3)		1.4 $\pm$ 2.3( 6)
24	8.1 $\pm$ 8.2( 4)	13.6 $\pm$ 6.2( 4)		10.9 $\pm$ 7.3( 8)
26	10.9 $\pm$ 5.0( 3)	10.3 $\pm$ 3.8( 3)		10.6 $\pm$ 4.0( 6)
28	39.4 $\pm$ 34.5( 4)	45.7 $\pm$ 24.2( 4)	30.7 $\pm$ 13.9( 4)	38.6 $\pm$ 24.0(12)
30	16.4 $\pm$ 19.6( 4)	57.8 $\pm$ 20.0( 4)	50.8 $\pm$ 9.3( 4)	41.7 $\pm$ 24.4(12)
31	0.6 $\pm$ 1.2( 4)	1.1 $\pm$ 1.2( 4)	2.5 $\pm$ 3.1( 4)	1.4 $\pm$ 2.0(12)
33	7.6 $\pm$ 5.6( 4)	14.7 $\pm$ 9.4( 4)		11.2 $\pm$ 8.1( 8)
40	7.3 $\pm$ 3.7( 4)	30.4 $\pm$ 27.3( 4)		18.9 $\pm$ 21.9( 8)
41	0.7 $\pm$ 1.1( 4)	2.8 $\pm$ 2.0( 2)		1.4 $\pm$ 1.6( 6)
42	22.5 $\pm$ 15.0( 4)	24.0 $\pm$ 22.3( 4)		23.3 $\pm$ 17.6( 8)
50	2.2 $\pm$ 1.0( 4)	4.2 $\pm$ 3.5( 4)		3.2 $\pm$ 2.6( 8)
51	3.3 $\pm$ 4.1( 3)	0.8 $\pm$ 1.4( 3)		2.1 $\pm$ 3.1( 6)
52	1.6 $\pm$ 1.8( 4)	0.4 $\pm$ 0.4( 4)		1.0 $\pm$ 1.4( 8)
53	8.3 $\pm$ 6.2( 4)	17.7 $\pm$ 28.5( 4)		13.0 $\pm$ 19.7( 8)
54	3.7 $\pm$ 3.5( 4)	1.6 $\pm$ 1.7( 3)		2.8 $\pm$ 2.9( 7)
56	8.1 $\pm$ 5.5( 4)	0.0 $\pm$ 0.0( 0)		8.1 $\pm$ 5.5( 4)
60	0.5 $\pm$ 0.0( 2)	2.1 $\pm$ 0.3( 2)		1.3 $\pm$ 0.9( 4)
68	9.3 $\pm$ 13.7( 3)	5.5 $\pm$ 5.2( 4)		7.1 $\pm$ 9.0( 7)
70	3.4 $\pm$ 3.9( 4)	1.5 $\pm$ 1.0( 4)		2.5 $\pm$ 2.8( 8)
71	9.8 $\pm$ 8.5( 4)	14.8 $\pm$ 16.5( 4)		12.3 $\pm$ 12.4( 8)
76	0.9 $\pm$ 1.2( 4)	4.2 $\pm$ 5.8( 3)		2.3 $\pm$ 3.9( 7)
77	3.2 $\pm$ 1.9( 4)	3.3 $\pm$ 2.0( 2)		3.2 $\pm$ 1.7( 6)
89	20.0 $\pm$ 14.0( 4)	16.8 $\pm$ 7.9( 4)		18.4 $\pm$ 10.7( 8)
95	5.7 $\pm$ 8.6( 4)			5.7 $\pm$ 8.6( 4)
101	24.1 $\pm$ 12.9( 4)	30.3 $\pm$ 8.7( 4)		27.2 $\pm$ 10.7( 8)
102	22.7 $\pm$ 7.2( 3)	27.3 $\pm$ 24.1( 3)		25.0 $\pm$ 16.1( 6)
104	48.0 $\pm$ 45.3( 3)	33.5 $\pm$ 13.4( 3)		40.8 $\pm$ 30.9( 6)
110	4.3 $\pm$ 6.3( 4)	3.6 $\pm$ 4.8( 6)		3.9 $\pm$ 5.1(10)

Table 15. Dry weight (mg) of chironomidae larvae in core samples taken at 1.0m depths from selected Riske Creek wetlands, summer 1985.

Wetland Number	Repetitions (mean $\pm$ SD(n))				Total
	1	2	3		
1	1.7 $\pm$ 1.5( 3)	1.4 $\pm$ 1.2( 4)			1.5 $\pm$ 1.2( 7)
3	3.8 $\pm$ 2.2( 4)	1.8 $\pm$ 2.0( 4)			2.8 $\pm$ 2.2( 8)
4	11.8 $\pm$ 4.0( 2)	8.0 $\pm$ 7.8( 3)			9.5 $\pm$ 6.2( 5)
6	4.4 $\pm$ 4.2( 4)	4.9 $\pm$ 1.7( 4)			4.7 $\pm$ 3.0( 8)
7	0.0 $\pm$ 0.0( 0)	0.0 $\pm$ 0.0( 0)			0.0 $\pm$ 0.0( 0)
8	21.5 $\pm$ 17.8( 4)	56.1 $\pm$ 15.1( 4)			38.8 $\pm$ 24.0( 8)
10	31.7 $\pm$ 31.2( 3)	61.4 $\pm$ 29.6( 3)			46.6 $\pm$ 31.7( 6)
11	6.3 $\pm$ 5.8( 4)	11.6 $\pm$ 4.4( 4)			9.0 $\pm$ 5.5( 8)
13	23.7 $\pm$ 25.5( 7)	14.9 $\pm$ 5.6( 3)	44.6 $\pm$ 29.5( 3)		26.5 $\pm$ 24.4(13)
14	12.3 $\pm$ 12.9( 3)	22.4 $\pm$ 10.0( 3)			17.4 $\pm$ 11.7( 6)
15	6.7 $\pm$ 5.5( 4)	6.1 $\pm$ 6.9( 4)	0.2 $\pm$ 0.5( 4)		4.3 $\pm$ 5.5(12)
16	0.7 $\pm$ 0.8( 6)	0.0 $\pm$ 0.0( 2)			0.5 $\pm$ 0.7( 8)
18	17.1 $\pm$ 14.3( 9)	22.0 $\pm$ 8.2( 4)	9.7 $\pm$ 7.2( 3)		16.9 $\pm$ 12.1(16)
19	0.1 $\pm$ 0.2(10)	1.1 $\pm$ 0.3( 3)	0.0 $\pm$ 0.0( 0)		0.3 $\pm$ 0.5(13)
20	33.2 $\pm$ 7.5( 4)	37.7 $\pm$ 9.3( 4)	4 9.2 $\pm$ 16.8( 4)		40.0 $\pm$ 12.9(12)
22	5.0 $\pm$ 2.5( 8)	7.7 $\pm$ 5.4( 4)			5.9 $\pm$ 3.7(12)
23	1.4 $\pm$ 1.4( 3)	1.1 $\pm$ 1.5( 3)			1.3 $\pm$ 1.3( 6)
24	11.8 $\pm$ 13.0( 4)	4.0 $\pm$ 2.6( 4)			7.9 $\pm$ 9.6( 8)
26	5.7 $\pm$ 4.9( 3)	6.3 $\pm$ 3.1( 3)			6.0 $\pm$ 3.7( 6)
28	30.7 $\pm$ 10.8( 4)	26.6 $\pm$ 18.2( 4)	4 1.6 $\pm$ 38.0( 4)		33.0 $\pm$ 23.7(12)
30	30.4 $\pm$ 36.0( 4)	33.4 $\pm$ 16.4( 4)	6 2.5 $\pm$ 57.5( 4)		42.1 $\pm$ 39.5(12)
31	0.0 $\pm$ 0.0( 4)	1.2 $\pm$ 1.2( 4)	2.8 $\pm$ 5.3( 4)		1.3 $\pm$ 3.1(12)
33	0.0 $\pm$ 0.0( 4)	14.7 $\pm$ 11.7( 4)			7.4 $\pm$ 11.0( 8)
40	5.3 $\pm$ 4.4( 4)	16.7 $\pm$ 7.7( 4)			11.0 $\pm$ 8.4( 8)
41	0.3 $\pm$ 0.5( 3)	3.8 $\pm$ 2.7( 2)			1.7 $\pm$ 2.4( 5)
42	2.1 $\pm$ 1.6( 4)	8.8 $\pm$ 6.2( 4)			5.5 $\pm$ 5.5( 8)
50	3.8 $\pm$ 4.3( 4)	4.3 $\pm$ 3.1( 3)			4.0 $\pm$ 3.5( 7)
51	0.5 $\pm$ 0.8( 3)	0.9 $\pm$ 1.2( 3)			0.7 $\pm$ 0.9( 6)
52	0.9 $\pm$ 1.9( 4)	0.0 $\pm$ 0.0( 4)			0.5 $\pm$ 1.3( 8)
53	18.9 $\pm$ 19.1( 4)	12.2 $\pm$ 12.8( 4)			15.6 $\pm$ 15.5( 8)
54	3.7 $\pm$ 4.2( 4)	1.1 $\pm$ 1.2( 3)			2.6 $\pm$ 3.4( 7)
56	1.1 $\pm$ 1.2( 4)	1.3 $\pm$ 0.3( 3)			1.2 $\pm$ 0.9( 7)
60	0.5 $\pm$ 0.8( 3)	2.4 $\pm$ 2.6( 4)			1.6 $\pm$ 2.2( 7)
68	5.0 $\pm$ 2.9( 4)	5.3 $\pm$ 6.7( 4)			5.2 $\pm$ 4.8( 8)
70	1.3 $\pm$ 1.2( 4)	3.4 $\pm$ 3.2( 4)			2.4 $\pm$ 2.5( 8)
71	12.4 $\pm$ 11.2( 4)	6.4 $\pm$ 6.4( 4)			9.4 $\pm$ 9.0( 8)
76	2.2 $\pm$ 2.6( 4)	1.8 $\pm$ 1.7( 4)			2.0 $\pm$ 2.0( 8)
77	1.7 $\pm$ 2.6( 3)	13.5 $\pm$ 12.6( 4)			8.4 $\pm$ 11.0( 7)
89	16.8 $\pm$ 8.2( 4)	31.3 $\pm$ 8.1( 4)			24.1 $\pm$ 10.8( 8)
95	0.0 $\pm$ 0.0( 0)				0.0 $\pm$ 0.0( 0)
101	19.2 $\pm$ 11.1( 4)	13.0 $\pm$ 4.3( 4)			16.1 $\pm$ 8.5( 8)
102	22.1 $\pm$ 6.8( 3)	13.7 $\pm$ 9.5( 3)			17.9 $\pm$ 8.7( 6)
104	7.6 $\pm$ 2.9( 3)	28.7 $\pm$ 5.6( 3)			18.2 $\pm$ 12.2( 6)
110	0.0 $\pm$ 0.0( 0)	0.0 $\pm$ 0.0( 0)			0.0 $\pm$ 0.0( 0)

Table 16. Dry weight (mg) of chironomidae larvae in core samples taken at 0.5m plus 1.0m depths of selected Riske Creek wetlands, summer 1985.

Wetland Number	Repetitions (mean $\pm$ SD(n))			Total
	1	2	3	
1	3.8 $\pm$ 5.9( 6)	1.0 $\pm$ 1.0( 8)		2.2 $\pm$ 4.0(14)
3	3.1 $\pm$ 1.7( 8)	1.9 $\pm$ 2.0( 8)		2.5 $\pm$ 1.9(16)
4	18.7 $\pm$ 18.3( 6)	9.8 $\pm$ 6.2( 5)		14.7 $\pm$ 14.3(11)
6	9.3 $\pm$ 10.4( 8)	11.9 $\pm$ 11.1( 8)		10.6 $\pm$ 10.5(16)
7	0.7 $\pm$ 1.4( 4)	0.9 $\pm$ 0.7( 4)		0.8 $\pm$ 1.0( 8)
8	23.7 $\pm$ 14.6( 8)	47.2 $\pm$ 17.6( 8)		35.5 $\pm$ 19.8(16)
10	20.1 $\pm$ 23.9( 6)	38.1 $\pm$ 31.8( 6)		29.1 $\pm$ 28.4(12)
11	10.7 $\pm$ 7.1( 8)	14.2 $\pm$ 7.9( 8)		12.5 $\pm$ 7.5(16)
13	18.6 $\pm$ 19.7(14)	12.3 $\pm$ 5.6( 6)	41.5 $\pm$ 21.5( 5)	21.7 $\pm$ 20.1(25)
14	19.9 $\pm$ 16.9( 6)	22.8 $\pm$ 12.4( 6)		21.4 $\pm$ 14.2(12)
15	19.4 $\pm$ 18.1( 8)	16.6 $\pm$ 21.3( 8)	19.7 $\pm$ 31.8( 8)	18.6 $\pm$ 23.4(24)
16	1.2 $\pm$ 1.7(17)	0.3 $\pm$ 0.4( 6)		1.0 $\pm$ 1.5(23)
18	15.2 $\pm$ 11.9(18)	18.2 $\pm$ 7.2( 8)	15.6 $\pm$ 11.0( 7)	16.0 $\pm$ 10.5(33)
19	0.3 $\pm$ 0.5(18)	1.5 $\pm$ 0.9( 6)	6.6 $\pm$ 5.7( 3)	1.3 $\pm$ 2.6(27)
20	28.2 $\pm$ 10.3( 8)	34.6 $\pm$ 15.9( 8)	60.8 $\pm$ 17.5( 8)	41.2 $\pm$ 20.2(24)
22	6.3 $\pm$ 3.8(17)	24.0 $\pm$ 42.9( 8)		12.0 $\pm$ 24.8(25)
23	2.0 $\pm$ 2.3( 6)	0.6 $\pm$ 1.1( 6)		1.3 $\pm$ 1.9(12)
24	9.9 $\pm$ 10.3( 8)	8.8 $\pm$ 6.8( 8)		9.4 $\pm$ 8.5(16)
26	8.3 $\pm$ 5.2( 6)	8.3 $\pm$ 3.8( 6)		8.3 $\pm$ 4.3(12)
28	35.1 $\pm$ 24.1( 8)	36.2 $\pm$ 22.3( 8)	36.2 $\pm$ 27.1( 8)	35.8 $\pm$ 23.5(24)
30	23.4 $\pm$ 27.8( 8)	45.6 $\pm$ 21.4( 8)	56.7 $\pm$ 38.6( 8)	41.9 $\pm$ 32.1(24)
31	0.3 $\pm$ 0.8( 8)	1.1 $\pm$ 1.1( 8)	2.6 $\pm$ 4.1( 8)	1.3 $\pm$ 2.6(24)
33	3.8 $\pm$ 5.5( 8)	14.7 $\pm$ 9.8( 8)		9.3 $\pm$ 9.5(16)
40	6.3 $\pm$ 3.9( 8)	23.6 $\pm$ 20.0( 8)		15.0 $\pm$ 16.5(16)
41	0.5 $\pm$ 0.9( 7)	3.3 $\pm$ 2.0( 4)		1.5 $\pm$ 1.9(11)
42	12.3 $\pm$ 14.7( 8)	16.4 $\pm$ 17.2( 8)		14.4 $\pm$ 15.6(16)
50	3.0 $\pm$ 3.0( 8)	4.2 $\pm$ 3.1( 7)		3.6 $\pm$ 3.0(15)
51	1.9 $\pm$ 3.1( 6)	0.9 $\pm$ 1.2( 6)		1.4 $\pm$ 2.3(12)
52	1.3 $\pm$ 1.8( 8)	0.2 $\pm$ 0.3( 8)		0.8 $\pm$ 1.4(16)
53	13.6 $\pm$ 14.3( 8)	14.9 $\pm$ 20.7( 8)		14.3 $\pm$ 17.2(16)
54	3.7 $\pm$ 3.6( 8)	1.3 $\pm$ 1.3( 6)		2.7 $\pm$ 3.0(14)
56	4.6 $\pm$ 5.3( 8)	1.3 $\pm$ 0.3( 3)		3.7 $\pm$ 4.7(11)
60	0.5 $\pm$ 0.6( 5)	2.3 $\pm$ 2.0( 6)		1.5 $\pm$ 1.7(11)
68	6.8 $\pm$ 8.5( 7)	5.4 $\pm$ 5.5( 8)		6.1 $\pm$ 6.8(15)
70	2.4 $\pm$ 2.9( 8)	2.5 $\pm$ 2.4( 8)		2.5 $\pm$ 2.6(16)
71	11.1 $\pm$ 9.3( 8)	10.6 $\pm$ 12.4( 8)		10.9 $\pm$ 10.6(16)
76	1.6 $\pm$ 2.0( 8)	2.8 $\pm$ 3.8( 7)		2.2 $\pm$ 2.9(15)
77	2.6 $\pm$ 2.1( 7)	10.1 $\pm$ 11.2( 6)		6.1 $\pm$ 8.3(13)
89	18.4 $\pm$ 10.7( 8)	24.0 $\pm$ 10.7( 8)		21.2 $\pm$ 10.7(16)
95	5.7 $\pm$ 8.6( 4)			5.7 $\pm$ 8.6( 4)
101	21.7 $\pm$ 11.4( 8)	21.6 $\pm$ 11.2( 8)		21.7 $\pm$ 10.9(16)
102	22.4 $\pm$ 6.3( 6)	20.5 $\pm$ 18.0( 6)		21.4 $\pm$ 12.9(12)
104	27.8 $\pm$ 36.3( 6)	31.1 $\pm$ 9.5( 6)		29.5 $\pm$ 25.4(12)
110	4.3 $\pm$ 6.3( 4)	3.6 $\pm$ 4.8( 6)		3.9 $\pm$ 5.1(10)

Table 17. Mean number of chironomidae larvae and corresponding dry weights (mg) in core samples taken at 0.5m depths from selected Riske Creek wetlands, summer 1985.

Wetland Number	Total (Mean $\pm$ SD(n))			Dry Weight (Mean $\pm$ SD(n))			
	0-10mm <sup>a</sup>	10-20mm	All	0-10mm	10-20mm	All	
1	5.8 $\pm$ 12.0( 7)	0.0 $\pm$ 0.0( 7)	5.8 $\pm$ 12.0( 7)	2.7 $\pm$ 5.6( 7)	0.0 $\pm$ 0.0( 7)	2.8 $\pm$ 5.6( 7)	
3	4.6 $\pm$ 3.7( 8)	0.2 $\pm$ 0.4( 8)	4.7 $\pm$ 3.5( 8)	2.1 $\pm$ 1.7( 8)	0.1 $\pm$ 0.3( 8)	2.3 $\pm$ 1.6( 8)	
4	16.8 $\pm$ 9.4( 6)	11.5 $\pm$ 15.4( 6)	28.4 $\pm$ 22.9( 6)	7.9 $\pm$ 4.4( 6)	11.1 $\pm$ 14.8( 6)	18.9 $\pm$ 18.1( 6)	
6	25.8 $\pm$ 20.3( 8)	4.7 $\pm$ 3.3( 8)	30.4 $\pm$ 22.8( 8)	12.1 $\pm$ 9.5( 8)	4.5 $\pm$ 3.2( 8)	16.6 $\pm$ 12.1( 8)	
7	1.0 $\pm$ 1.4( 8)	0.4 $\pm$ 1.1( 8)	1.4 $\pm$ 1.5( 8)	0.5 $\pm$ 0.7( 8)	0.4 $\pm$ 1.0( 8)	0.8 $\pm$ 1.0( 8)	
8	57.6 $\pm$ 32.4( 8)	5.3 $\pm$ 4.3( 8)	62.8 $\pm$ 32.4( 8)	27.0 $\pm$ 15.2( 8)	5.0 $\pm$ 4.1( 8)	32.1 $\pm$ 15.5( 8)	
10	19.2 $\pm$ 15.9( 6)	2.7 $\pm$ 3.7( 6)	21.9 $\pm$ 14.3( 6)	9.0 $\pm$ 7.5( 6)	2.6 $\pm$ 3.5( 6)	11.5 $\pm$ 6.4( 6)	
11	24.4 $\pm$ 10.9( 8)	4.7 $\pm$ 3.3( 8)	29.0 $\pm$ 13.7( 8)	11.5 $\pm$ 5.1( 8)	4.5 $\pm$ 3.2( 8)	15.9 $\pm$ 7.9( 8)	
13	30.0 $\pm$ 25.3( 12)	2.5 $\pm$ 3.6( 12)	32.5 $\pm$ 26.5( 12)	14.1 $\pm$ 11.9( 12)	2.4 $\pm$ 3.5( 12)	16.5 $\pm$ 13.3( 12)	
14	42.0 $\pm$ 30.5( 6)	5.8 $\pm$ 4.0( 6)	47.9 $\pm$ 32.4( 6)	19.7 $\pm$ 14.3( 6)	5.6 $\pm$ 3.9( 6)	25.3 $\pm$ 16.4( 6)	
15	36.8 $\pm$ 31.0( 12)	16.2 $\pm$ 18.8( 12)	52.9 $\pm$ 40.1( 12)	17.3 $\pm$ 14.6( 12)	15.6 $\pm$ 18.0( 12)	32.8 $\pm$ 25.9( 12)	
16	2.7 $\pm$ 3.7( 15)	0.0 $\pm$ 0.0( 15)	2.7 $\pm$ 3.7( 15)	1.3 $\pm$ 1.7( 15)	0.0 $\pm$ 0.0( 15)	1.2 $\pm$ 1.8( 15)	
18	25.7 $\pm$ 15.7( 17)	3.2 $\pm$ 3.1( 17)	28.9 $\pm$ 17.3( 17)	12.1 $\pm$ 7.4( 17)	3.0 $\pm$ 3.0( 17)	15.1 $\pm$ 9.1( 17)	
19	3.0 $\pm$ 4.0( 14)	0.7 $\pm$ 2.4( 14)	3.7 $\pm$ 5.3( 14)	1.4 $\pm$ 1.9( 14)	0.7 $\pm$ 2.3( 14)	2.1 $\pm$ 3.4( 14)	
20	70.8 $\pm$ 43.6( 12)	9.5 $\pm$ 7.7( 12)	80.3 $\pm$ 49.3( 12)	33.3 $\pm$ 20.5( 12)	9.1 $\pm$ 7.4( 12)	42.4 $\pm$ 26.3( 12)	
22	11.9 $\pm$ 9.9( 13)	12.5 $\pm$ 31.0( 13)	24.4 $\pm$ 40.0( 13)	5.6 $\pm$ 4.6( 13)	12.0 $\pm$ 29.8( 13)	17.6 $\pm$ 34.0( 13)	
23	2.5 $\pm$ 5.2( 6)	0.2 $\pm$ 0.4( 6)	2.6 $\pm$ 5.1( 6)	1.2 $\pm$ 2.4( 6)	0.1 $\pm$ 0.4( 6)	1.4 $\pm$ 2.3( 6)	
24	13.9 $\pm$ 10.9( 8)	4.5 $\pm$ 4.5( 8)	18.4 $\pm$ 12.7( 8)	6.5 $\pm$ 5.1( 8)	4.3 $\pm$ 4.3( 8)	10.9 $\pm$ 7.3( 8)	
26	14.3 $\pm$ 10.8( 6)	4.0 $\pm$ 3.5( 6)	18.4 $\pm$ 9.0( 6)	6.7 $\pm$ 5.1( 6)	3.8 $\pm$ 3.4( 6)	10.6 $\pm$ 4.0( 6)	
28	53.1 $\pm$ 46.5( 12)	14.3 $\pm$ 9.3( 12)	67.4 $\pm$ 47.9( 12)	25.0 $\pm$ 21.9( 12)	13.7 $\pm$ 9.0( 12)	38.6 $\pm$ 24.0( 12)	
30	42.0 $\pm$ 33.6( 12)	22.9 $\pm$ 21.7( 12)	64.8 $\pm$ 37.5( 12)	19.8 $\pm$ 15.8( 12)	22.0 $\pm$ 20.8( 12)	41.7 $\pm$ 24.4( 12)	
31	2.8 $\pm$ 4.3( 12)	0.2 $\pm$ 0.4( 8)	2.9 $\pm$ 4.3( 12)	1.3 $\pm$ 2.0( 12)	0.1 $\pm$ 0.3( 12)	1.4 $\pm$ 2.0( 12)	
33	20.8 $\pm$ 13.2( 8)	1.5 $\pm$ 2.3( 8)	22.3 $\pm$ 15.1( 8)	9.8 $\pm$ 6.2( 8)	1.4 $\pm$ 2.2( 8)	11.2 $\pm$ 8.1( 8)	
40	18.8 $\pm$ 20.9( 8)	10.5 $\pm$ 13.3( 8)	29.3 $\pm$ 33.1( 8)	8.8 $\pm$ 9.8( 8)	10.1 $\pm$ 12.8( 8)	18.9 $\pm$ 21.9( 8)	
41	3.0 $\pm$ 3.5( 6)	0.0 $\pm$ 0.0( 6)	3.0 $\pm$ 3.5( 6)	1.4 $\pm$ 1.7( 6)	0.0 $\pm$ 0.0( 6)	1.4 $\pm$ 1.6( 6)	
42	22.4 $\pm$ 32.4( 8)	13.3 $\pm$ 12.5( 8)	35.7 $\pm$ 32.6( 8)	10.5 $\pm$ 15.2( 8)	12.7 $\pm$ 12.0( 8)	23.3 $\pm$ 17.6( 8)	
50	6.9 $\pm$ 5.6( 8)	0.0 $\pm$ 0.0( 8)	6.9 $\pm$ 5.6( 8)	3.2 $\pm$ 2.6( 8)	0.0 $\pm$ 0.0( 8)	3.2 $\pm$ 2.6( 8)	
51	4.4 $\pm$ 6.5( 6)	0.0 $\pm$ 0.0( 6)	4.4 $\pm$ 6.5( 6)	2.0 $\pm$ 3.0( 6)	0.0 $\pm$ 0.0( 6)	2.1 $\pm$ 3.1( 6)	
52	2.2 $\pm$ 3.0( 8)	0.0 $\pm$ 0.0( 8)	2.2 $\pm$ 3.0( 8)	1.0 $\pm$ 1.4( 8)	0.0 $\pm$ 0.0( 8)	1.0 $\pm$ 1.4( 8)	
53	24.0 $\pm$ 38.7( 8)	1.8 $\pm$ 2.2( 8)	25.8 $\pm$ 40.3( 8)	11.3 $\pm$ 18.2( 8)	1.7 $\pm$ 2.1( 8)	13.0 $\pm$ 19.7( 8)	
54	2.7 $\pm$ 1.7( 7)	1.6 $\pm$ 2.5( 7)	4.3 $\pm$ 3.6( 7)	1.3 $\pm$ 0.8( 7)	1.5 $\pm$ 2.4( 7)	2.8 $\pm$ 2.9( 7)	
56	17.3 $\pm$ 11.8( 4)	0.0 $\pm$ 0.0( 4)	17.3 $\pm$ 11.8( 4)	8.1 $\pm$ 5.5( 4)	0.0 $\pm$ 0.0( 4)	8.1 $\pm$ 5.5( 4)	
60	2.3 $\pm$ 1.9( 4)	0.3 $\pm$ 0.5( 4)	2.5 $\pm$ 1.9( 4)	1.1 $\pm$ 0.9( 4)	0.2 $\pm$ 0.5( 4)	1.3 $\pm$ 0.9( 4)	
68	12.0 $\pm$ 13.0( 7)	1.6 $\pm$ 3.7( 7)	13.6 $\pm$ 15.8( 7)	5.6 $\pm$ 6.1( 7)	1.5 $\pm$ 3.6( 7)	7.1 $\pm$ 9.0( 7)	
70	5.1 $\pm$ 6.1( 8)	0.2 $\pm$ 0.4( 8)	5.2 $\pm$ 6.0( 8)	2.4 $\pm$ 2.9( 8)	0.1 $\pm$ 0.3( 8)	2.5 $\pm$ 2.8( 8)	
71	16.1 $\pm$ 15.3( 8)	5.1 $\pm$ 6.6( 8)	21.0 $\pm$ 20.4( 8)	7.5 $\pm$ 7.2( 8)	4.8 $\pm$ 6.4( 8)	12.3 $\pm$ 12.4( 8)	
76	4.4 $\pm$ 7.6( 7)	0.3 $\pm$ 0.5( 7)	4.8 $\pm$ 7.9( 7)	2.1 $\pm$ 3.6( 7)	0.3 $\pm$ 0.5( 7)	2.3 $\pm$ 3.9( 7)	
77	3.5 $\pm$ 3.7( 6)	1.7 $\pm$ 1.2( 6)	5.2 $\pm$ 3.4( 6)	1.7 $\pm$ 1.7( 6)	1.6 $\pm$ 1.2( 6)	3.2 $\pm$ 1.7( 6)	
89	27.7 $\pm$ 16.9( 8)	5.7 $\pm$ 4.5( 8)	33.3 $\pm$ 19.4( 8)	13.0 $\pm$ 7.9( 8)	5.4 $\pm$ 4.3( 8)	18.4 $\pm$ 10.7( 8)	
95	10.0 $\pm$ 14.3( 4)	1.0 $\pm$ 2.0( 4)	11.0 $\pm$ 16.3( 4)	4.7 $\pm$ 6.7( 4)	1.0 $\pm$ 1.9( 4)	5.7 $\pm$ 8.6( 4)	
101	40.5 $\pm$ 21.1( 8)	8.6 $\pm$ 5.1( 8)	49.1 $\pm$ 21.3( 8)	19.0 $\pm$ 9.9( 8)	8.2 $\pm$ 4.9( 8)	27.2 $\pm$ 10.7( 8)	
102	44.7 $\pm$ 25.2( 6)	4.2 $\pm$ 6.4( 6)	48.9 $\pm$ 29.2( 6)	21.0 $\pm$ 11.8( 6)	4.0 $\pm$ 6.1( 6)	25.0 $\pm$ 16.1( 6)	
104	58.2 $\pm$ 70.9( 6)	14.0 $\pm$ 7.6( 6)	72.2 $\pm$ 68.1( 6)	27.3 $\pm$ 33.3( 6)	13.4 $\pm$ 7.3( 6)	40.8 $\pm$ 30.9( 6)	
110	7.1 $\pm$ 10.0( 10)	0.6 $\pm$ 1.1( 10)	7.7 $\pm$ 10.4( 10)	3.4 $\pm$ 4.7( 10)	0.6 $\pm$ 1.1( 10)	3.9 $\pm$ 5.1( 10)	

a - Larvae size class.

Table 18. Mean number of chironomidae larvae and corresponding dry weights (mg) in core samples taken at 1.0m depths from selected Riske Creek wetlands, summer 1985.

Wetland Number	Total (Mean $\pm$ SD(n))						Dry Weight (Mean $\pm$ SD(n))											
	0-10mm <sup>a</sup>			10-20mm			All			0-10mm			10-20mm			All		
	0-10mm	10-20mm	All	0-10mm	10-20mm	All	0-10mm	10-20mm	All	0-10mm	10-20mm	All	0-10mm	10-20mm	All			
1	2.2 $\pm$ 2.7( 7)	0.6 $\pm$ 1.1( 7)	2.7 $\pm$ 2.4( 7)	1.0 $\pm$ 1.3( 7)	0.5 $\pm$ 1.1( 7)	1.5 $\pm$ 1.2( 7)	2.8 $\pm$ 2.2( 8)	0.0 $\pm$ 0.0( 8)	2.8 $\pm$ 2.2( 8)	4.0 $\pm$ 4.0( 5)	5.6 $\pm$ 5.2( 5)	9.5 $\pm$ 6.2( 5)	2.8 $\pm$ 2.2( 8)	4.7 $\pm$ 3.0( 8)	1.2( 7)			
3	5.9 $\pm$ 4.8( 8)	0.0 $\pm$ 0.0( 8)	5.9 $\pm$ 4.8( 8)	4.0 $\pm$ 4.0( 5)	5.6 $\pm$ 5.2( 5)	9.5 $\pm$ 6.2( 5)	2.0 $\pm$ 1.3( 8)	2.7 $\pm$ 1.8( 8)	4.7 $\pm$ 3.0( 8)	0.0 $\pm$ 0.0( 0)	0.0 $\pm$ 0.0( 0)	0.0 $\pm$ 0.0( 0)	2.8 $\pm$ 2.2( 8)	4.7 $\pm$ 3.0( 8)	1.2( 7)			
4	8.4 $\pm$ 8.5( 5)	5.8 $\pm$ 5.4( 5)	14.2 $\pm$ 9.6( 5)	4.0 $\pm$ 4.0( 5)	5.6 $\pm$ 5.2( 5)	9.5 $\pm$ 6.2( 5)	0.0 $\pm$ 0.0( 0)	0.0 $\pm$ 0.0( 0)	0.0 $\pm$ 0.0( 0)	0.0 $\pm$ 0.0( 0)	0.0 $\pm$ 0.0( 0)	0.0 $\pm$ 0.0( 0)	2.8 $\pm$ 2.2( 8)	4.7 $\pm$ 3.0( 8)	1.2( 7)			
6	4.3 $\pm$ 2.8( 8)	2.8 $\pm$ 1.8( 8)	7.0 $\pm$ 4.4( 8)	2.0 $\pm$ 1.3( 8)	2.7 $\pm$ 1.8( 8)	4.7 $\pm$ 3.0( 8)	0.0 $\pm$ 0.0( 0)	0.0 $\pm$ 0.0( 0)	0.0 $\pm$ 0.0( 0)	0.0 $\pm$ 0.0( 0)	0.0 $\pm$ 0.0( 0)	0.0 $\pm$ 0.0( 0)	2.8 $\pm$ 2.2( 8)	4.7 $\pm$ 3.0( 8)	1.2( 7)			
7	0.0 $\pm$ 0.0( 0)	0.0 $\pm$ 0.0( 0)	0.0 $\pm$ 0.0( 0)	0.0 $\pm$ 0.0( 0)	0.0 $\pm$ 0.0( 0)	0.0 $\pm$ 0.0( 0)	0.0 $\pm$ 0.0( 0)	0.0 $\pm$ 0.0( 0)	0.0 $\pm$ 0.0( 0)	0.0 $\pm$ 0.0( 0)	0.0 $\pm$ 0.0( 0)	0.0 $\pm$ 0.0( 0)	2.8 $\pm$ 2.2( 8)	4.7 $\pm$ 3.0( 8)	1.2( 7)			
8	72.4 $\pm$ 44.4( 8)	5.0 $\pm$ 3.8( 8)	77.4 $\pm$ 47.6( 8)	34.0 $\pm$ 20.9( 8)	4.8 $\pm$ 3.7( 8)	38.8 $\pm$ 24.0( 8)	41.9 $\pm$ 32.1( 6)	4.7 $\pm$ 4.4( 6)	46.6 $\pm$ 31.7( 6)	4.4 $\pm$ 2.9( 8)	4.6 $\pm$ 3.5( 8)	9.0 $\pm$ 5.5( 8)	2.8 $\pm$ 2.2( 8)	4.7 $\pm$ 3.0( 8)	1.2( 7)			
10	89.2 $\pm$ 68.3( 6)	4.9 $\pm$ 4.6( 6)	94.0 $\pm$ 67.7( 6)	17.3 $\pm$ 19.0( 13)	9.1 $\pm$ 17.5( 13)	26.5 $\pm$ 24.4( 13)	8.7 $\pm$ 7.7( 6)	8.6 $\pm$ 7.6( 6)	17.4 $\pm$ 11.7( 6)	2.7 $\pm$ 5.0( 12)	2.6 $\pm$ 4.3( 12)	4.3 $\pm$ 5.5( 12)	2.8 $\pm$ 2.2( 8)	4.7 $\pm$ 3.0( 8)	1.2( 7)			
11	9.4 $\pm$ 6.2( 8)	4.8 $\pm$ 3.7( 8)	14.2 $\pm$ 8.6( 8)	0.5 $\pm$ 0.8( 8)	0.0 $\pm$ 0.0( 8)	0.5 $\pm$ 0.7( 8)	14.6 $\pm$ 11.4( 16)	2.4 $\pm$ 2.0( 16)	16.9 $\pm$ 12.1( 16)	0.3 $\pm$ 0.5( 13)	0.0 $\pm$ 0.0( 13)	0.3 $\pm$ 0.5( 13)	2.8 $\pm$ 2.2( 8)	4.7 $\pm$ 3.0( 8)	1.2( 7)			
13	36.9 $\pm$ 40.4( 13)	9.5 $\pm$ 18.2( 13)	46.5 $\pm$ 42.5( 13)	27.6 $\pm$ 7.6( 12)	12.5 $\pm$ 9.7( 12)	40.0 $\pm$ 12.9( 12)	3.4 $\pm$ 3.0( 12)	2.5 $\pm$ 1.9( 12)	5.9 $\pm$ 3.7( 12)	1.2 $\pm$ 1.3( 6)	0.0 $\pm$ 0.0( 6)	1.3 $\pm$ 1.3( 6)	2.8 $\pm$ 2.2( 8)	4.7 $\pm$ 3.0( 8)	1.2( 7)			
14	18.5 $\pm$ 16.4( 6)	9.0 $\pm$ 7.9( 6)	27.5 $\pm$ 19.4( 6)	6.5 $\pm$ 9.4( 12)	6.5 $\pm$ 9.4( 12)	6.5 $\pm$ 9.4( 12)	6.5 $\pm$ 9.5( 8)	1.4 $\pm$ 1.5( 8)	7.9 $\pm$ 9.6( 8)	3.8 $\pm$ 2.6( 6)	2.3 $\pm$ 3.2( 6)	6.0 $\pm$ 3.7( 6)	2.8 $\pm$ 2.2( 8)	4.7 $\pm$ 3.0( 8)	1.2( 7)			
15	5.8 $\pm$ 10.7( 8)	2.7 $\pm$ 4.5( 12)	6.5 $\pm$ 9.4( 12)	17.9 $\pm$ 14.3( 12)	15.1 $\pm$ 13.7( 12)	33.0 $\pm$ 23.7( 12)	21.3 $\pm$ 20.3( 12)	20.8 $\pm$ 32.5( 12)	42.1 $\pm$ 39.5( 12)	1.7 $\pm$ 2.3( 5)	0.0 $\pm$ 0.0( 5)	1.7 $\pm$ 2.4( 5)	2.8 $\pm$ 2.2( 8)	4.7 $\pm$ 3.0( 8)	1.2( 7)			
16	1.1 $\pm$ 1.7( 8)	0.0 $\pm$ 0.0( 8)	1.1 $\pm$ 1.7( 8)	1.3 $\pm$ 3.1( 12)	0.0 $\pm$ 0.0( 12)	1.3 $\pm$ 3.1( 12)	6.9 $\pm$ 10.7( 8)	0.5 $\pm$ 0.9( 8)	7.4 $\pm$ 11.0( 8)	5.9 $\pm$ 6.4( 8)	5.0 $\pm$ 3.7( 8)	11.0 $\pm$ 8.4( 8)	2.8 $\pm$ 2.2( 8)	4.7 $\pm$ 3.0( 8)	1.2( 7)			
18	31.1 $\pm$ 24.3( 16)	2.5 $\pm$ 2.0( 16)	33.5 $\pm$ 24.9( 16)	1.7 $\pm$ 2.3( 5)	0.0 $\pm$ 0.0( 5)	1.7 $\pm$ 2.3( 5)	1.7 $\pm$ 2.3( 5)	0.0 $\pm$ 0.0( 5)	0.0 $\pm$ 0.0( 5)	1.7 $\pm$ 2.3( 5)	0.0 $\pm$ 0.0( 5)	0.0 $\pm$ 0.0( 5)	2.8 $\pm$ 2.2( 8)	4.7 $\pm$ 3.0( 8)	1.2( 7)			
19	0.7 $\pm$ 1.0( 13)	0.0 $\pm$ 0.0( 13)	0.7 $\pm$ 1.0( 13)	27.6 $\pm$ 7.6( 12)	12.5 $\pm$ 9.7( 12)	40.0 $\pm$ 12.9( 12)	3.4 $\pm$ 3.0( 12)	2.5 $\pm$ 1.9( 12)	5.9 $\pm$ 3.7( 12)	1.2 $\pm$ 1.3( 6)	0.0 $\pm$ 0.0( 6)	1.3 $\pm$ 1.3( 6)	2.8 $\pm$ 2.2( 8)	4.7 $\pm$ 3.0( 8)	1.2( 7)			
20	58.7 $\pm$ 16.2( 12)	13.0 $\pm$ 10.1( 12)	71.7 $\pm$ 19.9( 12)	17.9 $\pm$ 14.3( 12)	15.1 $\pm$ 13.7( 12)	33.0 $\pm$ 23.7( 12)	21.3 $\pm$ 20.3( 12)	20.8 $\pm$ 32.5( 12)	42.1 $\pm$ 39.5( 12)	1.2 $\pm$ 1.3( 6)	0.0 $\pm$ 0.0( 6)	1.3 $\pm$ 1.3( 6)	2.8 $\pm$ 2.2( 8)	4.7 $\pm$ 3.0( 8)	1.2( 7)			
22	7.3 $\pm$ 6.3( 12)	2.6 $\pm$ 1.9( 12)	9.9 $\pm$ 6.8( 12)	7.5 $\pm$ 6.5( 8)	7.5 $\pm$ 6.5( 8)	7.5 $\pm$ 6.5( 8)	6.5 $\pm$ 9.5( 8)	1.4 $\pm$ 1.5( 8)	7.9 $\pm$ 9.6( 8)	3.8 $\pm$ 2.6( 6)	2.3 $\pm$ 3.2( 6)	6.0 $\pm$ 3.7( 6)	2.8 $\pm$ 2.2( 8)	4.7 $\pm$ 3.0( 8)	1.2( 7)			
23	2.7 $\pm$ 2.8( 6)	0.0 $\pm$ 0.0( 6)	2.7 $\pm$ 2.8( 6)	1.2 $\pm$ 1.3( 6)	0.0 $\pm$ 0.0( 6)	1.2 $\pm$ 1.3( 6)	6.5 $\pm$ 9.5( 8)	1.4 $\pm$ 1.5( 8)	7.9 $\pm$ 9.6( 8)	3.8 $\pm$ 2.6( 6)	2.3 $\pm$ 3.2( 6)	6.0 $\pm$ 3.7( 6)	2.8 $\pm$ 2.2( 8)	4.7 $\pm$ 3.0( 8)	1.2( 7)			
24	13.8 $\pm$ 20.3( 8)	1.5 $\pm$ 1.5( 8)	15.3 $\pm$ 20.3( 8)	17.9 $\pm$ 14.3( 12)	15.1 $\pm$ 13.7( 12)	33.0 $\pm$ 23.7( 12)	17.9 $\pm$ 14.3( 12)	15.1 $\pm$ 13.7( 12)	33.0 $\pm$ 23.7( 12)	1.2 $\pm$ 1.3( 6)	0.0 $\pm$ 0.0( 6)	1.3 $\pm$ 1.3( 6)	2.8 $\pm$ 2.2( 8)	4.7 $\pm$ 3.0( 8)	1.2( 7)			
26	8.0 $\pm$ 5.5( 6)	2.4 $\pm$ 3.4( 6)	10.3 $\pm$ 5.8( 6)	1.7 $\pm$ 2.3( 5)	0.0 $\pm$ 0.0( 5)	1.7 $\pm$ 2.3( 5)	0.7 $\pm$ 1.0( 6)	0.0 $\pm$ 0.0( 6)	0.7 $\pm$ 1.0( 6)	0.5 $\pm$ 1.3( 8)	0.0 $\pm$ 0.0( 8)	0.5 $\pm$ 1.3( 8)	2.8 $\pm$ 2.2( 8)	4.7 $\pm$ 3.0( 8)	1.2( 7)			
28	38.0 $\pm$ 30.4( 12)	15.8 $\pm$ 14.3( 12)	53.8 $\pm$ 38.7( 12)	24.4 $\pm$ 22.5( 8)	7.5 $\pm$ 6.5( 8)	8.1 $\pm$ 10.4( 8)	7.5 $\pm$ 6.5( 8)	8.1 $\pm$ 10.4( 8)	15.6 $\pm$ 15.5( 8)	1.8 $\pm$ 2.9( 7)	0.8 $\pm$ 0.9( 7)	2.6 $\pm$ 3.4( 7)	2.8 $\pm$ 2.2( 8)	4.7 $\pm$ 3.0( 8)	1.2( 7)			
30	45.3 $\pm$ 43.3( 12)	21.7 $\pm$ 33.9( 12)	67.0 $\pm$ 56.6( 12)	1.7 $\pm$ 2.3( 5)	0.0 $\pm$ 0.0( 5)	1.7 $\pm$ 2.3( 5)	1.7 $\pm$ 2.3( 5)	0.0 $\pm$ 0.0( 5)	1.7 $\pm$ 2.3( 5)	1.7 $\pm$ 2.3( 5)	0.0 $\pm$ 0.0( 5)	1.7 $\pm$ 2.3( 5)	2.8 $\pm$ 2.2( 8)	4.7 $\pm$ 3.0( 8)	1.2( 7)			
31	2.8 $\pm$ 6.6( 12)	0.0 $\pm$ 0.0( 8)	2.8 $\pm$ 6.6( 12)	1.3 $\pm$ 3.1( 12)	0.0 $\pm$ 0.0( 12)	1.3 $\pm$ 3.1( 12)	6.9 $\pm$ 10.7( 8)	0.5 $\pm$ 0.9( 8)	7.4 $\pm$ 11.0( 8)	5.9 $\pm$ 6.4( 8)	5.0 $\pm$ 3.7( 8)	11.0 $\pm$ 8.4( 8)	2.8 $\pm$ 2.2( 8)	4.7 $\pm$ 3.0( 8)	1.2( 7)			
33	14.7 $\pm$ 22.7( 8)	0.5 $\pm$ 1.0( 8)	15.2 $\pm$ 23.1( 8)	5.9 $\pm$ 6.4( 8)	5.0 $\pm$ 3.7( 8)	11.0 $\pm$ 8.4( 8)	5.9 $\pm$ 6.4( 8)	5.0 $\pm$ 3.7( 8)	11.0 $\pm$ 8.4( 8)	1.7 $\pm$ 2.3( 5)	0.0 $\pm$ 0.0( 5)	1.7 $\pm$ 2.4( 5)	2.8 $\pm$ 2.2( 8)	4.7 $\pm$ 3.0( 8)	1.2( 7)			
40	12.7 $\pm$ 13.7( 8)	5.3 $\pm$ 3.8( 8)	17.9 $\pm$ 15.4( 8)	0.7 $\pm$ 1.0( 6)	0.0 $\pm$ 0.0( 6)	0.7 $\pm$ 1.0( 6)	0.7 $\pm$ 1.0( 6)	0.0 $\pm$ 0.0( 6)	0.7 $\pm$ 1.0( 6)	0.7 $\pm$ 1.0( 6)	0.0 $\pm$ 0.0( 6)	0.7 $\pm$ 1.0( 6)	2.8 $\pm$ 2.2( 8)	4.7 $\pm$ 3.0( 8)	1.2( 7)			
41	3.6 $\pm$ 5.0( 5)	0.0 $\pm$ 0.0( 5)	3.6 $\pm$ 5.0( 5)	1.7 $\pm$ 2.3( 5)	0.0 $\pm$ 0.0( 5)	1.7 $\pm$ 2.3( 5)	1.7 $\pm$ 2.3( 5)	0.0 $\pm$ 0.0( 5)	1.7 $\pm$ 2.3( 5)	1.7 $\pm$ 2.3( 5)	0.0 $\pm$ 0.0( 5)	1.7 $\pm$ 2.3( 5)	2.8 $\pm$ 2.2( 8)	4.7 $\pm$ 3.0( 8)	1.2( 7)			
42	7.5 $\pm$ 5.2( 8)	2.0 $\pm$ 3.8( 8)	9.5 $\pm$ 8.1( 8)	3.5 $\pm$ 2.4( 8)	1.9 $\pm$ 3.6( 8)	4.0 $\pm$ 3.5( 8)	2.7 $\pm$ 2.6( 7)	1.2 $\pm$ 1.9( 7)	4.0 $\pm$ 3.5( 7)	3.5 $\pm$ 2.4( 8)	1.9 $\pm$ 3.6( 8)	4.0 $\pm$ 3.5( 8)	2.8 $\pm$ 2.2( 8)	4.7 $\pm$ 3.0( 8)	1.2( 7)			
50	5.8 $\pm$ 5.6( 7)	1.3 $\pm$ 2.0( 7)	7.2 $\pm$ 6.3( 7)	2.7 $\pm$ 2.6( 7)	1.2 $\pm$ 1.9( 7)	2.7 $\pm$ 2.6( 7)	2.7 $\pm$ 2.6( 7)	1.2 $\pm$ 1.9( 7)	4.0 $\pm$ 3.5( 7)	0.7 $\pm$ 1.0( 6)	0.0 $\pm$ 0.0( 6)	0.7 $\pm$ 0.9( 6)	2.8 $\pm$ 2.2( 8)	4.7 $\pm$ 3.0( 8)	1.2( 7)			
51	1.5 $\pm$ 2.0( 6)	0.0 $\pm$ 0.0( 6)	1.5 $\pm$ 2.0( 6)	0.9 $\pm$ 1.0( 7)	0.0 $\pm$ 0.0( 7)	0.9 $\pm$ 1.0( 7)	0.9 $\pm$ 0.8( 7)	0.7 $\pm$ 1.5( 7)	0.9 $\pm$ 1.0( 7)	0.5 $\pm$ 1.3( 8)	0.0 $\pm$ 0.0( 8)	0.5 $\pm$ 1.3( 8)	2.8 $\pm$ 2.2( 8)	4.7 $\pm$ 3.0( 8)	1.2( 7)			
52	1.0 $\pm$ 2.8( 8)	0.0 $\pm$ 0.0( 8)	1.0 $\pm$ 2.8( 8)	1.0 $\pm$ 2.8( 8)	0.0 $\pm$ 0.0( 8)	1.0 $\pm$ 2.8( 8)	4.2 $\pm$ 4.7( 8)	1.0 $\pm$ 1.5( 8)	5.2 $\pm$ 4.8( 8)	7.5 $\pm$ 6.5( 8)	8.1 $\pm$ 10.4( 8)	15.6 $\pm$ 15.5( 8)	2.8 $\pm$ 2.2( 8)	4.7 $\pm$ 3.0( 8)	1.2( 7)			
53	16.1 $\pm$ 13.9( 8)	8.4 $\pm$ 10.9( 8)	24.4 $\pm$ 22.5( 8)	1.8 $\pm$ 2.9( 7)	0.8 $\pm$ 0.9( 7)	2.6 $\pm$ 3.4( 7)	1.8 $\pm$ 2.9( 7)	0.8 $\pm$ 0.9( 7)	2.6 $\pm$ 3.4( 7)	1.2 $\pm$ 1.9( 8)	0.1 $\pm$ 0.3( 8)	2.6 $\pm$ 3.4( 7)	2.8 $\pm$ 2.2( 8)	4.7 $\pm$ 3.0( 8)	1.2( 7)			

Table 19. Mean number of chironomidae larvae and corresponding dry weights (mg) in core samples taken at 0.5 plus 1.0m depths of selected Riske Creek wetlands, summer 1985.

Wetland Number	Total (Mean $\pm$ SD(n))						Dry Weight (Mean $\pm$ SD(n))					
	0-10mm <sup>a</sup>		10-20mm		All		0-10mm		10-20mm		All	
1	4.0 $\pm$ 8.6(14)	0.3 $\pm$ 0.8(14)	4.3 $\pm$ 8.5(14)	1.9 $\pm$ 4.0(14)	0.3 $\pm$ 0.8(14)	2.2 $\pm$ 4.0(14)						
3	5.2 $\pm$ 4.1(16)	0.1 $\pm$ 0.3(16)	5.3 $\pm$ 4.1(16)	2.4 $\pm$ 1.9(16)	0.0 $\pm$ 0.3(16)	2.5 $\pm$ 1.9(16)						
4	13.0 $\pm$ 9.7(11)	8.9 $\pm$ 11.8(11)	21.9 $\pm$ 18.8(11)	6.1 $\pm$ 4.5(11)	8.5 $\pm$ 11.3(11)	14.7 $\pm$ 14.3(11)						
6	15.0 $\pm$ 17.9(16)	3.7 $\pm$ 2.8(16)	18.7 $\pm$ 19.9(16)	7.1 $\pm$ 8.4(16)	3.6 $\pm$ 2.7(16)	10.6 $\pm$ 10.5(16)						
7	1.0 $\pm$ 1.4( 8)	0.4 $\pm$ 1.1( 8)	1.4 $\pm$ 1.5( 8)	0.5 $\pm$ 0.7( 8)	0.4 $\pm$ 1.0( 8)	0.8 $\pm$ 1.0( 8)						
8	65.0 $\pm$ 38.3(16)	5.2 $\pm$ 3.9(16)	70.1 $\pm$ 40.0(16)	30.5 $\pm$ 18.0(16)	4.9 $\pm$ 3.8(16)	35.5 $\pm$ 19.8(16)						
10	54.2 $\pm$ 59.8(12)	3.8 $\pm$ 4.1(12)	58.0 $\pm$ 60.0(12)	25.5 $\pm$ 28.1(12)	3.6 $\pm$ 4.0(12)	29.1 $\pm$ 28.4(12)						
11	16.9 $\pm$ 11.6(16)	4.7 $\pm$ 3.4(16)	21.6 $\pm$ 13.4(16)	7.9 $\pm$ 5.4(16)	4.5 $\pm$ 3.3(16)	12.5 $\pm$ 7.5(16)						
13	33.6 $\pm$ 33.5(25)	6.2 $\pm$ 13.6(25)	39.8 $\pm$ 35.7(25)	15.8 $\pm$ 15.7(25)	5.9 $\pm$ 13.1(25)	21.7 $\pm$ 20.1(25)						
14	30.3 $\pm$ 26.4(12)	7.5 $\pm$ 6.2(12)	37.7 $\pm$ 27.6(12)	14.2 $\pm$ 12.4(12)	7.2 $\pm$ 6.0(12)	21.4 $\pm$ 14.2(12)						
15	20.3 $\pm$ 28.0(24)	9.4 $\pm$ 15.0(24)	29.7 $\pm$ 37.1(24)	9.5 $\pm$ 13.1(24)	9.1 $\pm$ 14.4(24)	18.6 $\pm$ 23.4(24)						
16	2.1 $\pm$ 3.2(23)	0.0 $\pm$ 0.0(23)	2.1 $\pm$ 3.2(23)	1.0 $\pm$ 1.5(23)	0.0 $\pm$ 0.0(23)	1.0 $\pm$ 1.5(23)						
18	28.3 $\pm$ 20.1(33)	2.8 $\pm$ 2.6(33)	31.1 $\pm$ 21.1(33)	13.3 $\pm$ 9.5(33)	2.7 $\pm$ 2.5(33)	16.0 $\pm$ 10.5(33)						
19	1.9 $\pm$ 3.1(27)	0.4 $\pm$ 1.7(27)	2.3 $\pm$ 4.1(27)	0.9 $\pm$ 1.5(27)	0.4 $\pm$ 1.7(27)	1.3 $\pm$ 2.6(27)						
20	64.7 $\pm$ 32.7(24)	11.2 $\pm$ 9.0(24)	76.0 $\pm$ 37.0(24)	30.4 $\pm$ 15.4(24)	10.8 $\pm$ 8.6(24)	41.2 $\pm$ 20.2(24)						
22	9.7 $\pm$ 8.5(25)	7.7 $\pm$ 22.5(25)	17.4 $\pm$ 29.6(25)	4.5 $\pm$ 4.0(25)	7.4 $\pm$ 21.6(25)	12.0 $\pm$ 24.8(25)						
23	2.6 $\pm$ 3.9(12)	0.1 $\pm$ 0.3(12)	2.6 $\pm$ 3.9(12)	1.2 $\pm$ 1.8(12)	0.1 $\pm$ 0.3(12)	1.3 $\pm$ 1.9(12)						
24	13.8 $\pm$ 15.7(16)	3.0 $\pm$ 3.6(16)	16.8 $\pm$ 16.4(16)	6.5 $\pm$ 7.4(16)	2.9 $\pm$ 3.4(16)	9.4 $\pm$ 8.5(16)						
26	11.2 $\pm$ 8.9(12)	3.1 $\pm$ 3.4(12)	14.4 $\pm$ 8.3(12)	5.2 $\pm$ 4.2(12)	3.0 $\pm$ 3.3(12)	8.3 $\pm$ 4.3(12)						
28	45.5 $\pm$ 39.2(24)	15.0 $\pm$ 11.8(24)	60.6 $\pm$ 43.2(24)	21.4 $\pm$ 18.4(24)	14.4 $\pm$ 11.3(24)	35.8 $\pm$ 23.5(24)						
30	43.7 $\pm$ 37.9(24)	22.3 $\pm$ 27.9(24)	65.9 $\pm$ 46.9(24)	20.5 $\pm$ 17.8(24)	21.4 $\pm$ 26.7(24)	41.9 $\pm$ 32.1(24)						
31	2.8 $\pm$ 5.4(24)	0.1 $\pm$ 0.3(16)	2.8 $\pm$ 5.4(24)	1.3 $\pm$ 2.5(24)	0.0 $\pm$ 0.3(24)	1.3 $\pm$ 2.6(24)						
33	17.7 $\pm$ 18.3(16)	1.0 $\pm$ 1.8(16)	18.7 $\pm$ 19.2(16)	8.3 $\pm$ 8.6(16)	1.0 $\pm$ 1.7(16)	9.3 $\pm$ 9.5(16)						
40	15.7 $\pm$ 17.4(16)	7.9 $\pm$ 9.9(16)	23.6 $\pm$ 25.6(16)	7.4 $\pm$ 8.2(16)	7.6 $\pm$ 9.5(16)	15.0 $\pm$ 16.5(16)						
41	3.2 $\pm$ 4.0(11)	0.0 $\pm$ 0.0(11)	3.2 $\pm$ 4.0(11)	1.5 $\pm$ 1.9(11)	0.0 $\pm$ 0.0(11)	1.5 $\pm$ 1.9(11)						
42	15.0 $\pm$ 23.7(16)	7.7 $\pm$ 10.7(16)	22.6 $\pm$ 26.6(16)	7.0 $\pm$ 11.1(16)	7.3 $\pm$ 10.2(16)	14.4 $\pm$ 15.6(16)						
50	6.4 $\pm$ 5.4(15)	0.6 $\pm$ 1.5(15)	7.0 $\pm$ 5.7(15)	3.0 $\pm$ 2.6(15)	0.6 $\pm$ 1.4(15)	3.6 $\pm$ 3.0(15)						
51	2.9 $\pm$ 4.8(12)	0.0 $\pm$ 0.0(12)	2.9 $\pm$ 4.8(12)	1.4 $\pm$ 2.3(12)	0.0 $\pm$ 0.0(12)	1.4 $\pm$ 2.3(12)						
52	1.6 $\pm$ 2.9(16)	0.0 $\pm$ 0.0(16)	1.6 $\pm$ 2.9(16)	0.8 $\pm$ 1.3(16)	0.0 $\pm$ 0.0(16)	0.8 $\pm$ 1.4(16)						
53	20.0 $\pm$ 28.4(16)	5.1 $\pm$ 8.3(16)	25.1 $\pm$ 31.5(16)	9.4 $\pm$ 13.4(16)	4.8 $\pm$ 8.0(16)	14.3 $\pm$ 17.2(16)						
54	3.2 $\pm$ 4.4(14)	1.2 $\pm$ 1.9(14)	4.4 $\pm$ 5.1(14)	1.5 $\pm$ 2.1(14)	1.2 $\pm$ 1.8(14)	2.7 $\pm$ 3.0(14)						
56	7.9 $\pm$ 9.9(11)	0.0 $\pm$ 0.0(11)	7.9 $\pm$ 9.9(11)	3.7 $\pm$ 4.7(11)	0.0 $\pm$ 0.0(11)	3.7 $\pm$ 4.7(11)						
60	2.0 $\pm$ 1.7(11)	0.5 $\pm$ 1.2(11)	2.5 $\pm$ 2.6(11)	0.9 $\pm$ 0.8(11)	0.5 $\pm$ 1.1(11)	1.5 $\pm$ 1.7(11)						
68	10.3 $\pm$ 11.2(15)	1.3 $\pm$ 2.7(15)	11.6 $\pm$ 12.6(15)	4.9 $\pm$ 5.3(15)	1.2 $\pm$ 2.6(15)	6.1 $\pm$ 6.8(15)						
70	5.0 $\pm$ 5.5(16)	0.1 $\pm$ 0.3(16)	5.1 $\pm$ 5.5(16)	2.4 $\pm$ 2.6(16)	0.0 $\pm$ 0.3(16)	2.5 $\pm$ 2.6(16)						
71	16.6 $\pm$ 15.1(16)	3.2 $\pm$ 5.1(16)	19.8 $\pm$ 18.4(16)	7.8 $\pm$ 7.1(16)	3.1 $\pm$ 4.9(16)	10.9 $\pm$ 10.6(16)						
76	4.2 $\pm$ 5.7(15)	0.2 $\pm$ 0.5(15)	4.4 $\pm$ 6.0(15)	2.0 $\pm$ 2.7(15)	0.2 $\pm$ 0.4(15)	2.2 $\pm$ 2.9(15)						
77	7.7 $\pm$ 12.4(13)	2.5 $\pm$ 3.3(13)	10.2 $\pm$ 14.9(13)	3.6 $\pm$ 5.8(13)	2.4 $\pm$ 3.1(13)	6.1 $\pm$ 8.3(13)						
89	30.4 $\pm$ 16.7(16)	7.3 $\pm$ 4.3(16)	37.6 $\pm$ 19.5(16)	14.3 $\pm$ 7.8(16)	7.0 $\pm$ 4.1(16)	21.2 $\pm$ 10.7(16)						
95	10.0 $\pm$ 14.3( 4)	1.0 $\pm$ 2.0( 4)	11.0 $\pm$ 16.3( 4)	4.7 $\pm$ 6.7( 4)	1.0 $\pm$ 1.9( 4)	5.7 $\pm$ 8.6( 4)						
101	31.3 $\pm$ 19.9(16)	7.3 $\pm$ 5.0(16)	38.5 $\pm$ 21.0(16)	14.7 $\pm$ 9.4(16)	7.0 $\pm$ 4.8(16)	21.7 $\pm$ 10.9(16)						
102	35.4 $\pm$ 20.9(12)	5.0 $\pm$ 5.5(12)	40.5 $\pm$ 23.7(12)	16.6 $\pm$ 9.8(12)	4.8 $\pm$ 5.3(12)	21.4 $\pm$ 12.9(12)						
104	42.3 $\pm$ 52.0(12)	10.0 $\pm$ 7.2(12)	52.3 $\pm$ 52.5(12)	19.9 $\pm$ 24.5(12)	9.6 $\pm$ 6.9(12)	29.5 $\pm$ 25.4(12)						
110	7.1 $\pm$ 10.0(10)	0.6 $\pm$ 1.1(10)	7.7 $\pm$ 10.4(10)	3.4 $\pm$ 4.7(10)	0.6 $\pm$ 1.1(10)	3.9 $\pm$ 5.1(10)						

a - Larvae size class.

Table 20. Dry weights (mg) of selected aquatic invertebrate taxa<sup>a</sup> in sweep net samples taken from Riske Creek wetlands, summer 1984.

Wetland Number	Shore Stations (Mean $\pm$ SD(n))			Open Water Stations (Mean $\pm$ SD(n))		
3	74.4	$\pm$	58.1(32)	41.2	$\pm$	32.7(32)
4	188.6	$\pm$	245.8(32)	53.6	$\pm$	46.5(32)
6	297.3	$\pm$	215.3(32)	16.4	$\pm$	29.5(32)
7	272.8	$\pm$	131.4(32)	124.5	$\pm$	118.8(12)
10	430.8	$\pm$	426.7(44)	234.2	$\pm$	121.2(24)
11	445.1	$\pm$	309.8(32)	17.0	$\pm$	19.2(32)
13	3067.5	$\pm$	2833.5(32)	375.7	$\pm$	489.8(32)
14	1222.0	$\pm$	476.6(32)	12.8	$\pm$	12.5(24)
15	675.9	$\pm$	354.2(32)	143.0	$\pm$	76.1(32)
16	9.5	$\pm$	6.9(32)	10.2	$\pm$	9.4(32)
23	89.6	$\pm$	66.0(32)	111.3	$\pm$	63.4(24)
24	495.7	$\pm$	369.2(44)	99.1	$\pm$	49.9(24)
26	138.8	$\pm$	100.0(48)	130.1	$\pm$	70.1(32)
28	1712.2	$\pm$	1290.5(12)	133.0	$\pm$	73.7(16)
30	256.8	$\pm$	255.0(32)	1.4	$\pm$	2.0(32)
31	52.5	$\pm$	48.1(16)	32.2	$\pm$	32.1(24)
33	49.6	$\pm$	52.3(32)	2.8	$\pm$	2.8(32)
41	64.8	$\pm$	83.3(32)	1.7	$\pm$	2.1(32)
42	127.5	$\pm$	186.8(48)	27.4	$\pm$	21.7(32)
50	65.4	$\pm$	80.0(34)	28.4	$\pm$	23.7(32)
52	190.4	$\pm$	86.0(32)	168.5	$\pm$	55.5(32)
56	144.3	$\pm$	120.0(32)	14.7	$\pm$	8.6(32)
60	108.1	$\pm$	96.6(16)	175.1	$\pm$	95.3(32)
70	507.7	$\pm$	311.0(24)	103.2	$\pm$	56.6(32)
71	262.7	$\pm$	175.3(32)	180.8	$\pm$	107.4(32)
76	39.5	$\pm$	34.1(32)	95.2	$\pm$	58.0(32)
89	471.9	$\pm$	183.6(8)	4.5	$\pm$	3.1(12)
102	2234.2	$\pm$	1068.3(32)	279.2	$\pm$	287.0(32)
104	784.5	$\pm$	413.4(32)	63.2	$\pm$	52.1(32)
110	244.8	$\pm$	127.7(32)	10.3	$\pm$	28.3(32)

a - Includes 14 taxa as listed in Table 3.

Table 21. Dry weights(mg) from mean number of selected aquatic invertebrate taxa<sup>a</sup>, by vegetation cover, from sweep net(0.5mm mesh) samples of selected Riske Creek wetlands, summer 1984.

Wetland no.	VEGETATION COVER <sup>b</sup>													
	Mean ± SD(n)	TD	Mean ± SD(n)	TD	Mean ± SD(n)	TD	Mean ± SD(n)	TD	Mean ± SD(n)	TD	Mean ± SD(n)	TD	Mean ± SD(n)	TD
3	30.1 ± 28.9(24)	6	0.0 ± 0.0( 0)	0	58.5 ± 27.2( 4)	3	65.1 ± 45.8(12)	10	55.2 ± 34.7(16)	13	134.8 ± 77.0( 8)	11	57.8 ± 19.0(64)	14
4	110.1 ± 199.1(48)	9	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	153.8 ± 96.2(16)	9	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	121.1 ± 151.2(64)	11
6	6.8 ± 4.9(32)	6	0.0 ± 0.0( 0)	0	43.7 ± 54.0( 8)	6	0.0 ± 0.0( 0)	1	249.5 ± 66.2( 8)	11	395.1 ± 205.7(20)	12	153.9 ± 61.4(68)	14
7	38.7 ± 32.5( 6)	7	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	262.9 ± 126.0(38)	13	232.3 ± 108.9(44)	13
10	234.2 ± 119.0(24)	6	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	122.0 ± 37.1( 4)	6	384.0 ± 0.0( 1)	5	522.2 ± 364.0(39)	12	395.0 ± 213.0(68)	12
11	17.0 ± 20.2(32)	5	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	394.8 ± 152.5( 8)	10	205.7 ± 118.1( 8)	8	590.0 ± 327.6(16)	10	231.1 ± 86.0(64)	11
13	375.7 ± 472.8(32)	8	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	4267.6 ± 3174.0(16)	9	1867.4 ± 791.4(16)	11	1721.6 ± 851.3(64)	11
14	12.8 ± 9.5(24)	5	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	1222.0 ± 486.6(32)	10	703.8 ± 278.1(56)	11
15	143.0 ± 68.8(32)	6	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	675.9 ± 334.8(32)	11	409.5 ± 170.9(64)	11
16	9.9 ± 8.2(64)	5	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	9.9 ± 8.2(64)	5
23	106.8 ± 68.0(20)	7	0.0 ± 0.0( 0)	0	64.9 ± 38.9( 8)	11	103.0 ± 63.9(28)	14	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	98.9 ± 40.4(56)	14
24	99.1 ± 48.5(24)	8	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	289.1 ± 118.4( 4)	9	677.7 ± 292.7(12)	10	601.8 ± 332.2(28)	11	419.4 ± 147.4(60)	12
26	127.6 ± 98.7(32)	11	0.0 ± 0.0( 0)	0	33.1 ± 6.6( 2)	6	163.3 ± 100.1(38)	12	208.4 ± 103.9( 4)	8	0.0 ± 0.0( 0)	0	147.2 ± 65.3(76)	13
28	133.0 ± 68.6(16)	9	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	120.2 ± 0.0( 1)	7	0.0 ± 0.0( 0)	0	1457.3 ± 1180.3(23)	12	894.2 ± 679.2(40)	12
30	55.1 ± 123.7(48)	4	0.0 ± 0.0( 0)	0	134.0 ± 70.5( 8)	4	568.2 ± 275.6( 8)	3	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	129.1 ± 99.3(64)	4
31	30.1 ± 33.2(39)	9	0.0 ± 0.0( 0)	0	36.0 ± 19.6(13)	8	76.4 ± 51.6(13)	8	94.9 ± 51.8( 5)	8	0.0 ± 0.0( 0)	0	44.4 ± 21.5(70)	11
33	26.2 ± 34.5(64)	6	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	26.2 ± 34.5(64)	6
41	33.2 ± 66.6(64)	4	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	33.2 ± 66.6(64)	4
42	42.7 ± 33.5(43)	9	0.0 ± 0.0( 0)	0	6.4 ± 0.0( 1)	1	55.3 ± 40.3( 4)	7	290.9 ± 195.4(16)	10	0.0 ± 0.0( 0)	0	105.0 ± 53.8(64)	11
50	27.5 ± 22.6(53)	11	0.0 ± 0.0( 0)	0	110.5 ± 47.3( 7)	10	165.9 ± 134.5( 7)	11	464.0 ± 0.0( 1)	5	304.7 ± 118.4( 4)	8	70.5 ± 22.6(72)	12
52	160.2 ± 61.6(36)	12	0.0 ± 0.0( 0)	0	148.3 ± 0.0( 1)	8	111.8 ± 66.9( 5)	13	190.3 ± 76.2(16)	13	203.0 ± 64.5(16)	13	172.5 ± 37.2(74)	14
56	23.0 ± 22.2(40)	9	0.0 ± 0.0( 0)	0	93.8 ± 58.9( 9)	10	202.6 ± 85.3( 8)	9	198.5 ± 76.9( 6)	8	509.2 ± 0.0( 1)	5	79.5 ± 20.7(64)	10
60	150.4 ± 119.9(54)	11	0.0 ± 0.0( 0)	0	285.7 ± 115.9( 2)	4	327.9 ± 160.1( 9)	10	184.5 ± 161.0( 4)	10	320.9 ± 123.1( 3)	8	191.3 ± 92.7(72)	14
70	223.0 ± 164.7(43)	13	0.0 ± 0.0( 0)	1	97.4 ± 0.0( 1)	4	126.1 ± 45.4( 4)	10	642.5 ± 351.9(15)	14	582.6 ± 0.0( 1)	5	318.9 ± 138.0(64)	15
71	209.2 ± 94.2(23)	9	0.0 ± 0.0( 0)	0	108.4 ± 53.1( 9)	10	0.0 ± 0.0( 0)	0	453.9 ± 238.6( 8)	10	198.9 ± 75.9(24)	11	221.8 ± 53.9(64)	12
76	66.3 ± 59.5(63)	10	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	130.9 ± 0.0( 1)	5	364.5 ± 175.0( 2)	6	0.0 ± 0.0( 0)	0	76.3 ± 57.0(66)	10
89	12.5 ± 17.5(14)	8	0.0 ± 0.0( 0)	0	99.3 ± 63.6( 2)	8	323.2 ± 203.6(12)	11	396.7 ± 231.8( 7)	11	487.1 ± 234.6(17)	10	294.4 ± 95.4(52)	11
95	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	611.2 ± 284.0(48)	14	611.2 ± 284.0(48)	14
102	279.2 ± 205.5(32)	4	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	2234.2 ± 1091.1(32)	7	1256.7 ± 563.9(64)	8
104	63.2 ± 45.6(32)	7	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	0.0 ± 0.0( 0)	0	691.5 ± 399.2( 8)	11	815.5 ± 382.5(24)	11	423.9 ± 153.6(64)	11
110	2.9 ± 8.2(16)	3	0.0 ± 0.0( 0)	0	17.8 ± 27.4(16)	3	0.0 ± 0.0( 0)	0	241.1 ± 109.7(24)	4	255.8 ± 72.7( 8)	3	127.6 ± 42.7(64)	4

a - Includes 14 taxa as listed in Table 3.

b - Estimate of % cover by volume.

c - Taxonomic diversity.

Table 22. Dry weights (mg) of selected aquatic invertebrate taxa<sup>a</sup> in sweep net samples taken at 0.5m depths from shore stations of selected Riske Creek wetlands, summer 1985.

Wetland Number	Repetitions (mean $\pm$ SD(n))						Total	
	1	2	3					
1	24.3	$\pm$ 22.7( 16)	117.9	$\pm$ 49.2( 16)			71.1	$\pm$ 60.7(32)
3	23.9	$\pm$ 19.5( 16)	26.9	$\pm$ 25.8( 16)			25.4	$\pm$ 22.5(32)
4	209.5	$\pm$ 270.3( 16)	1608.7	$\pm$ 1771.8( 16)			909.1	$\pm$ 1435.1(32)
6	233.3	$\pm$ 448.7( 16)	200.7	$\pm$ 137.8( 16)			217.0	$\pm$ 326.9(32)
7	40.0	$\pm$ 28.1( 16)	97.3	$\pm$ 46.1( 16)			68.7	$\pm$ 47.5(32)
8	299.0	$\pm$ 263.2( 16)	524.2	$\pm$ 264.7( 16)			411.6	$\pm$ 283.7(32)
10	541.1	$\pm$ 233.2( 12)	532.6	$\pm$ 258.1( 12)			536.9	$\pm$ 240.6(24)
11	1.6	$\pm$ 3.2( 16)	163.2	$\pm$ 84.0( 16)			82.4	$\pm$ 100.8(32)
13	330.2	$\pm$ 181.1( 12)	1146.8	$\pm$ 751.6( 12)	924.6	$\pm$ 500.5( 12)	800.5	$\pm$ 623.5(36)
14	500.6	$\pm$ 362.6( 12)	1812.3	$\pm$ 779.6( 12)			1156.5	$\pm$ 895.8(24)
15	264.7	$\pm$ 107.6( 14)	434.1	$\pm$ 275.6( 16)	384.5	$\pm$ 137.4( 16)	365.3	$\pm$ 199.8(46)
16	7.2	$\pm$ 10.1( 16)	2.3	$\pm$ 2.7( 16)			4.8	$\pm$ 7.7(32)
18	324.5	$\pm$ 275.5( 8)	214.1	$\pm$ 73.2( 16)	524.1	$\pm$ 189.2( 16)	360.2	$\pm$ 222.5(40)
19	101.5	$\pm$ 102.7( 9)	186.2	$\pm$ 88.8( 16)	400.5	$\pm$ 186.1( 12)	235.1	$\pm$ 175.7(37)
20	1004.7	$\pm$ 621.9( 8)	981.8	$\pm$ 638.2( 16)	1854.8	$\pm$ 786.4( 16)	1335.6	$\pm$ 805.2(40)
22	213.6	$\pm$ 167.6( 12)	180.5	$\pm$ 110.4( 16)			194.7	$\pm$ 136.0(28)
23	125.0	$\pm$ 83.0( 12)	85.1	$\pm$ 37.1( 12)			105.1	$\pm$ 66.1(24)
24	311.1	$\pm$ 161.3( 16)	257.2	$\pm$ 135.2( 16)			284.2	$\pm$ 148.9(32)
26	23.1	$\pm$ 17.8( 12)	75.7	$\pm$ 68.2( 12)			49.4	$\pm$ 55.7(24)
28	154.5	$\pm$ 51.6( 8)	459.1	$\pm$ 216.6( 16)	909.4	$\pm$ 591.4( 16)	578.3	$\pm$ 490.6(40)
30	15.5	$\pm$ 20.3( 8)	62.5	$\pm$ 50.0( 16)	49.2	$\pm$ 63.7( 16)	47.8	$\pm$ 53.8(40)
31	30.8	$\pm$ 45.2( 8)	26.7	$\pm$ 18.7( 16)	107.7	$\pm$ 97.9( 16)	59.9	$\pm$ 75.8(40)
33	8.4	$\pm$ 7.2( 16)	8.0	$\pm$ 6.4( 16)			8.2	$\pm$ 6.7(32)
40	175.0	$\pm$ 153.6( 16)	476.5	$\pm$ 1059.1( 16)			325.8	$\pm$ 760.0(32)
41	1.6	$\pm$ 2.6( 16)	10.3	$\pm$ 11.7( 16)			6.0	$\pm$ 9.4(32)
42	216.7	$\pm$ 120.6( 16)	80.8	$\pm$ 63.6( 16)			148.8	$\pm$ 117.3(32)
50	48.9	$\pm$ 60.5( 16)	31.4	$\pm$ 30.7( 16)			40.2	$\pm$ 48.0(32)
51	26.2	$\pm$ 19.5( 12)	19.9	$\pm$ 8.6( 12)			23.1	$\pm$ 15.1(24)
52	158.3	$\pm$ 91.8( 16)	68.7	$\pm$ 44.7( 16)			113.5	$\pm$ 84.4(32)
53	50.0	$\pm$ 31.7( 16)	215.3	$\pm$ 109.3( 16)			132.7	$\pm$ 115.4(32)
54	349.1	$\pm$ 618.3( 16)	378.8	$\pm$ 200.5( 16)			364.0	$\pm$ 452.4(32)
56	253.5	$\pm$ 179.4( 16)	87.9	$\pm$ 75.0( 16)			170.7	$\pm$ 159.3(32)
60	71.8	$\pm$ 54.0( 12)	64.7	$\pm$ 55.8( 16)			67.7	$\pm$ 54.1(28)
68	148.0	$\pm$ 101.8( 16)	236.6	$\pm$ 95.9( 16)			192.3	$\pm$ 107.2(32)
70	211.7	$\pm$ 140.0( 16)	400.9	$\pm$ 222.4( 16)			306.3	$\pm$ 206.5(32)
71	548.2	$\pm$ 321.7( 16)	426.8	$\pm$ 196.8( 16)			487.5	$\pm$ 269.5(32)
76	26.3	$\pm$ 13.7( 16)	17.4	$\pm$ 13.4( 16)			21.9	$\pm$ 14.1(32)
77	522.7	$\pm$ 423.9( 16)	136.2	$\pm$ 92.6( 16)			329.5	$\pm$ 360.1(32)
89	91.0	$\pm$ 44.9( 16)	606.6	$\pm$ 746.1( 16)			348.8	$\pm$ 582.2(32)
95	150.7	$\pm$ 85.0( 16)					150.7	$\pm$ 85.0(16)
101	139.0	$\pm$ 84.4( 16)	245.0	$\pm$ 208.4( 16)			192.0	$\pm$ 165.4(32)
102	90.3	$\pm$ 44.5( 12)	49.9	$\pm$ 48.0( 12)			70.1	$\pm$ 49.7(24)
104	1217.1	$\pm$ 1245.8( 12)	1790.1	$\pm$ 1285.8( 12)			1503.6	$\pm$ 1272.3(24)
110	29.1	$\pm$ 31.8( 16)	24.7	$\pm$ 30.5( 16)			26.9	$\pm$ 30.7(32)

a - Includes 14 taxonomic groups as listed in Table 3

Table 23. Dry weights (mg) of selected aquatic invertebrate taxa<sup>a</sup> in sweep net samples taken at 1.0m depths from shore stations of selected Riske Creek wetlands, summer 1985.

Wetland Number	Repetitions (mean $\pm$ SD(n))						Total
	1	2	3				
1	31.7 $\pm$ 43.7( 16)	84.7 $\pm$ 81.1( 16)					58.2 $\pm$ 69.5(32)
3	21.5 $\pm$ 25.0( 16)	24.4 $\pm$ 28.2( 16)					23.0 $\pm$ 26.3(32)
4	184.3 $\pm$ 211.9( 16)	972.8 $\pm$ 964.8( 16)					578.6 $\pm$ 795.3(32)
6	14.6 $\pm$ 20.7( 16)	109.0 $\pm$ 117.8( 16)					61.8 $\pm$ 96.0(32)
8	145.4 $\pm$ 126.8( 16)	552.7 $\pm$ 353.7( 16)					349.1 $\pm$ 333.4(32)
10	352.5 $\pm$ 201.3( 12)	174.9 $\pm$ 115.6( 12)					263.7 $\pm$ 184.4(24)
11	0.6 $\pm$ 0.9( 16)	37.9 $\pm$ 34.4( 16)					19.3 $\pm$ 30.5(32)
13	103.9 $\pm$ 120.8( 12)	638.6 $\pm$ 473.6( 12)	570.2 $\pm$ 513.6( 12)				437.6 $\pm$ 464.8(36)
14	182.0 $\pm$ 188.9( 12)	1204.3 $\pm$ 879.2( 12)					693.2 $\pm$ 812.0(24)
15	446.3 $\pm$ 411.8( 16)	59.8 $\pm$ 41.8( 16)	172.7 $\pm$ 173.0( 16)				226.3 $\pm$ 301.9(48)
16	1.4 $\pm$ 1.8( 16)						1.4 $\pm$ 1.8(16)
18	217.6 $\pm$ 314.1( 16)	197.3 $\pm$ 192.4( 16)	254.0 $\pm$ 210.2( 16)				223.0 $\pm$ 240.8(48)
19	143.8 $\pm$ 194.3( 16)						143.8 $\pm$ 194.3(16)
20	1036.0 $\pm$ 1114.3( 16)	904.0 $\pm$ 847.1( 16)	1502.4 $\pm$ 829.2( 16)				1147.5 $\pm$ 955.0(48)
22	88.6 $\pm$ 147.4( 12)	91.9 $\pm$ 102.3( 16)					90.5 $\pm$ 121.1(28)
23	107.4 $\pm$ 133.2( 12)	118.1 $\pm$ 61.7( 12)					112.8 $\pm$ 101.7(24)
24	384.3 $\pm$ 394.5( 16)	180.5 $\pm$ 180.2( 16)					282.4 $\pm$ 319.0(32)
26	15.1 $\pm$ 9.3( 12)	69.6 $\pm$ 64.6( 12)					42.4 $\pm$ 53.0(24)
28	39.7 $\pm$ 32.3( 16)	267.3 $\pm$ 203.0( 16)	852.7 $\pm$ 533.7( 16)				386.6 $\pm$ 473.5(48)
30	17.3 $\pm$ 40.7( 16)	12.0 $\pm$ 11.9( 16)	7.9 $\pm$ 7.4( 16)				12.4 $\pm$ 24.6(48)
31	27.4 $\pm$ 74.1( 16)	24.8 $\pm$ 36.7( 16)	125.6 $\pm$ 142.9( 16)				59.3 $\pm$ 104.6(48)
33	2.6 $\pm$ 2.4( 16)	4.0 $\pm$ 2.5( 16)					3.3 $\pm$ 2.5(32)
40	81.5 $\pm$ 112.6( 16)	197.5 $\pm$ 294.5( 16)					139.5 $\pm$ 227.1(32)
41	0.2 $\pm$ 0.3( 16)	3.4 $\pm$ 4.9( 16)					1.8 $\pm$ 3.8(32)
42	93.3 $\pm$ 61.2( 16)	181.5 $\pm$ 196.2( 16)					137.4 $\pm$ 149.8(32)
50	53.5 $\pm$ 64.2( 16)	41.9 $\pm$ 45.5( 16)					47.7 $\pm$ 55.1(32)
51	79.3 $\pm$ 102.5( 12)	24.8 $\pm$ 21.0( 12)					52.1 $\pm$ 77.5(24)
52	91.7 $\pm$ 103.1( 16)	68.5 $\pm$ 99.2( 16)					80.1 $\pm$ 100.2(32)
53	107.7 $\pm$ 108.1( 16)	117.7 $\pm$ 58.6( 16)					112.7 $\pm$ 85.7(32)
54	308.0 $\pm$ 357.7( 16)	367.3 $\pm$ 399.9( 16)					337.7 $\pm$ 374.4(32)
56	27.7 $\pm$ 14.7( 16)	24.3 $\pm$ 16.9( 16)					26.0 $\pm$ 15.7(32)
60	53.1 $\pm$ 73.5( 12)	78.3 $\pm$ 82.4( 16)					67.5 $\pm$ 78.3(28)
68	167.2 $\pm$ 183.8( 16)	186.5 $\pm$ 154.0( 16)					176.9 $\pm$ 167.1(32)
70	355.7 $\pm$ 453.4( 16)	563.8 $\pm$ 574.4( 16)					459.8 $\pm$ 519.9(32)
71	736.5 $\pm$ 817.4( 16)	510.5 $\pm$ 365.3( 16)					623.5 $\pm$ 633.3(32)
76	36.7 $\pm$ 22.7( 16)	34.4 $\pm$ 32.6( 16)					35.6 $\pm$ 27.7(32)
77	293.8 $\pm$ 383.6( 16)	123.0 $\pm$ 150.2( 16)					208.4 $\pm$ 299.4(32)
89	69.9 $\pm$ 54.6( 16)	110.8 $\pm$ 147.3( 16)					94.4 $\pm$ 112.1(32)
101	41.0 $\pm$ 50.9( 16)	41.4 $\pm$ 47.0( 16)					41.2 $\pm$ 48.2(32)
102	7.1 $\pm$ 7.0( 12)	8.3 $\pm$ 8.0( 12)					7.7 $\pm$ 7.4(24)
104	141.4 $\pm$ 112.6( 12)	404.0 $\pm$ 565.6( 12)					272.7 $\pm$ 420.8(24)

a - Includes 14 taxonomic groups as listed in Table 3

Table 24. Dry weights (mg) of selected aquatic invertebrate taxa<sup>a</sup> in sweep net samples taken at open water<sup>b</sup> stations from selected Riske Creek wetlands, summer 1985.

Wetland Number	Repetitions (mean $\pm$ SD(n))						Total
	1	2	3				
1	7.0	8.2( 8)	5.3	3.2( 8)			6.2 $\pm$ 6.1(16)
3	31.3	20.4( 8)	13.2	12.6( 8)			22.3 $\pm$ 18.9(16)
4	88.0	34.0( 8)	157.5	68.4( 8)			122.8 $\pm$ 63.3(16)
6	3.7	4.9( 8)	20.2	18.3( 8)			12.0 $\pm$ 15.5(16)
8	19.8	8.7( 8)	91.8	67.5( 8)			55.8 $\pm$ 59.5(16)
10	102.8	47.1( 4)	206.2	167.0( 4)			154.5 $\pm$ 126.3( 8)
11	0.9	1.2( 8)	7.0	2.9( 8)			4.0 $\pm$ 3.8(16)
13	37.9	21.3( 4)	143.4	89.6( 4)	108.9	77.5( 4)	96.7 $\pm$ 77.8(12)
14	51.7	14.2( 4)	140.6	57.0( 4)			96.2 $\pm$ 61.1( 8)
15	177.3	191.8( 4)	54.3	82.4( 8)	187.1	179.2( 8)	132.0 $\pm$ 156.2(20)
16	1.9	0.8( 4)	4.5	4.4( 8)			3.6 $\pm$ 3.8(12)
18	45.6	19.2( 8)	11.4	4.1( 8)	205.7	40.0( 8)	87.6 $\pm$ 89.9(24)
19	102.3	87.7( 4)	192.1	125.7( 8)	196.6	118.6( 8)	175.9 $\pm$ 116.8(20)
20	22.1	16.2( 8)	6.3	3.0( 8)	91.8	55.3( 8)	40.1 $\pm$ 49.5(24)
22	6.9	4.1( 4)	15.8	10.4( 8)			12.8 $\pm$ 9.6(12)
23	72.3	27.3( 4)	32.8	15.1( 4)			52.6 $\pm$ 29.4( 8)
24	326.6	310.2( 8)	108.4	117.6( 8)			217.5 $\pm$ 253.1(16)
26	9.4	3.7( 4)	46.1	13.2( 4)			27.8 $\pm$ 21.6( 8)
28	33.3	18.3( 8)	23.4	7.9( 8)	22.2	6.0( 8)	26.3 $\pm$ 12.6(24)
30	1.6	1.4( 8)	0.4	0.6( 8)	1.8	3.7( 8)	1.3 $\pm$ 2.3(24)
31	1.8	2.6( 8)	2.4	1.2( 8)	26.4	15.7( 8)	10.2 $\pm$ 14.6(24)
33	2.6	2.7( 8)	2.7	1.6( 8)			2.7 $\pm$ 2.1(16)
40	22.8	15.9( 8)	26.2	18.4( 8)			24.5 $\pm$ 16.7(16)
41	1.5	3.2( 8)	1.1	1.5( 8)			1.3 $\pm$ 2.4(16)
42	97.0	56.1( 8)	38.4	19.0( 8)			67.7 $\pm$ 50.5(16)
50	24.5	8.3( 8)	47.8	41.1( 8)			36.2 $\pm$ 31.1(16)
51	42.5	31.0( 4)	32.2	27.9( 4)			37.4 $\pm$ 27.9( 8)
52	61.9	38.0( 8)	26.2	57.3( 8)			44.1 $\pm$ 50.5(16)
53	158.3	68.4( 8)	100.2	57.3( 8)			129.3 $\pm$ 67.9(16)
54	40.1	18.4( 8)	79.6	67.6( 8)			59.9 $\pm$ 52.0(16)
56	17.5	7.0( 8)	45.9	29.3( 8)			31.7 $\pm$ 25.3(16)
60	93.4	94.7( 8)	92.3	80.5( 8)			92.9 $\pm$ 84.9(16)
68	12.7	10.1( 8)	114.8	74.6( 8)			63.8 $\pm$ 73.7(16)
70	40.5	27.1( 8)	48.9	68.3( 8)			44.7 $\pm$ 50.4(16)
71	265.3	247.1( 8)	260.1	290.4( 8)			262.7 $\pm$ 260.5(16)
76	35.8	31.6( 8)	67.3	72.7( 8)			51.6 $\pm$ 56.5(16)
77	27.4	12.2( 8)	18.2	11.5( 8)			22.8 $\pm$ 12.4(16)
89	4.2	3.4( 8)	7.2	5.4( 8)			5.7 $\pm$ 4.6(16)
101	2.8	3.1( 8)	1.3	1.5( 8)			2.1 $\pm$ 2.5(16)
102	3.4	5.4( 4)	2.7	1.6( 4)			3.1 $\pm$ 3.7( 8)
104	95.7	39.5( 4)	166.3	146.5( 4)			131.0 $\pm$ 106.3( 8)
110	16.8	38.6( 8)	26.2	35.7( 8)			21.5 $\pm$ 36.2(16)

a - Includes 14 taxonomic groups as listed in Table 3

b - open water stations were away from shore near the centre and deepest parts of the wetlands

Table 25. Dry weights (mg) from mean number of selected aquatic invertebrate taxa<sup>a</sup>, by vegetation cover, from sweep net (0.5 mm mesh) samples of selected Riske Creek wetlands, summer 1985.

Wetland no.	VEGETATION COVER <sup>b</sup>												TOTAL Mean ± SD(n) TD			
	0 %			>0-1 %			>1-5 %			>5-25 %			>25-50 %			
	Mean ± SD(n)	TD <sup>c</sup>	Mean ± SD(n)	TD	Mean ± SD(n)	TD	Mean ± SD(n)	TD	Mean ± SD(n)	TD	Mean ± SD(n)	TD	Mean ± SD(n)	TD		
4.1	12.1 ± 2.9 (8)	5	0.0 ± 0.0 (0)	0	20.8 ± 5.2 (12)	7	28.3 ± 17.8 (6)	9	40.1 ± 63.2 (17)	14	155.3 ± 36.0 (8)	10	23.8 ± 8.5 (40)	11		
4.2	4.9 ± 2.7 (10)	4	0.0 ± 0.0 (0)	0	20.8 ± 25.7 (3)	7	50.9 ± 37.6 (4)	9	119.8 ± 63.2 (17)	14	155.3 ± 55.7 (6)	11	82.1 ± 20.5 (40)	14		
3.1	24.8 ± 21.3 (18)	9	2.6 ± 3.1 (2)	2	22.3 ± 22.3 (5)	9	24.3 ± 17.9 (12)	11	40.6 ± 37.6 (3)	7	0.0 ± 0.0 (0)	0	24.4 ± 11.7 (40)	13		
3.2	11.5 ± 10.5 (20)	10	0.0 ± 0.0 (0)	0	11.1 ± 4.7 (7)	6	47.5 ± 25.3 (13)	10	0.0 ± 0.0 (0)	0	0.0 ± 0.0 (0)	0	23.1 ± 9.8 (40)	11		
4.1	64.4 ± 57.5 (24)	9	0.0 ± 0.0 (0)	0	112.7 ± 69.7 (2)	5	165.1 ± 114.4 (4)	11	0.0 ± 0.0 (0)	0	426.0 ± 280.0 (11)	12	175.2 ± 85.1 (40)	14		
4.2	480.4 ± 873.0 (15)	11	0.0 ± 0.0 (0)	0	204.6 ± 69.7 (2)	5	0.0 ± 0.0 (0)	0	1289.4 ± 869.4 (8)	11	1642.2 ± 1135.3 (15)	11	1064.1 ± 564.5 (40)	11		
6.1	6.6 ± 5.0 (23)	8	0.0 ± 0.0 (0)	0	26.7 ± 21.0 (3)	7	49.3 ± 21.5 (7)	8	537.2 ± 526.4 (6)	10	195.9 ± 0.0 (1)	9	99.9 ± 79.1 (40)	10		
6.2	8.0 ± 7.1 (10)	6	0.0 ± 0.0 (0)	0	36.1 ± 14.0 (4)	7	106.9 ± 57.8 (9)	9	191.9 ± 81.3 (6)	10	251.9 ± 120.8 (11)	10	127.9 ± 37.8 (40)	12		
7.1	14.1 ± 2.1 (2)	5	0.0 ± 0.0 (0)	0	39.1 ± 0.0 (1)	4	47.2 ± 30.8 (6)	9	47.3 ± 10.8 (4)	8	33.2 ± 9.3 (3)	8	40.0 ± 12.6 (16)	9		
7.2	0.0 ± 0.0 (0)	0	0.0 ± 0.0 (0)	0	107.6 ± 31.0 (2)	7	91.1 ± 46.4 (9)	10	170.8 ± 61.0 (1)	6	87.7 ± 60.1 (4)	12	97.3 ± 30.4 (16)	12		
8.1	48.7 ± 37.2 (18)	8	0.0 ± 0.0 (0)	0	143.4 ± 71.3 (2)	7	408.6 ± 264.7 (6)	9	260.9 ± 105.7 (14)	12	0.0 ± 0.0 (0)	0	181.7 ± 56.9 (40)	12		
8.2	91.8 ± 68.6 (8)	8	0.0 ± 0.0 (0)	0	439.3 ± 233.2 (4)	10	331.5 ± 116.4 (7)	11	705.5 ± 305.3 (10)	12	554.3 ± 205.2 (11)	13	449.1 ± 100.8 (40)	13		
10.1	102.8 ± 43.8 (4)	3	234.7 ± 0.0 (1)	5	0.0 ± 0.0 (0)	0	367.3 ± 263.4 (8)	9	491.5 ± 157.2 (11)	10	536.1 ± 122.5 (4)	7	397.7 ± 99.1 (28)	10		
10.2	206.2 ± 166.4 (4)	3	0.0 ± 0.0 (0)	0	56.9 ± 0.0 (1)	6	90.5 ± 47.4 (5)	8	202.7 ± 99.7 (5)	11	476.6 ± 244.5 (15)	13	332.7 ± 134.4 (28)	13		
11.1	1.1 ± 2.3 (40)	6	0.0 ± 0.0 (0)	0	0.0 ± 0.0 (0)	0	0.0 ± 0.0 (0)	0	0.0 ± 0.0 (0)	0	0.0 ± 0.0 (0)	0	1.1 ± 2.3 (40)	6		
11.2	9.6 ± 6.1 (16)	9	0.0 ± 0.0 (0)	0	56.2 ± 37.2 (5)	9	158.8 ± 92.1 (15)	11	114.3 ± 79.5 (4)	8	0.0 ± 0.0 (0)	0	81.8 ± 35.8 (40)	11		
13.1	47.4 ± 29.8 (11)	6	0.0 ± 0.0 (0)	0	120.8 ± 80.1 (4)	6	394.3 ± 0.0 (1)	6	319.4 ± 152.5 (10)	10	383.9 ± 196.1 (2)	9	191.5 ± 58.6 (28)	11		
13.2	91.0 ± 84.5 (8)	8	0.0 ± 0.0 (0)	0	0.0 ± 0.0 (0)	0	853.0 ± 617.5 (2)	7	319.2 ± 305.8 (6)	8	1146.8 ± 784.7 (12)	13	783.6 ± 346.8 (28)	13		
13.3	112.1 ± 84.5 (8)	8	0.0 ± 0.0 (0)	0	164.4 ± 0.0 (1)	6	530.6 ± 231.5 (5)	12	855.2 ± 462.8 (5)	10	1193.7 ± 469.1 (9)	13	656.2 ± 178.5 (28)	14		
14.1	88.9 ± 86.9 (13)	7	0.0 ± 0.0 (0)	0	219.5 ± 88.7 (2)	7	404.8 ± 162.9 (6)	9	657.5 ± 334.1 (6)	10	429.0 ± 0.0 (1)	9	299.9 ± 89.5 (28)	10		
14.2	140.6 ± 53.9 (4)	6	0.0 ± 0.0 (0)	0	0.0 ± 0.0 (0)	0	562.7 ± 377.2 (5)	11	1973.7 ± 821.0 (7)	12	1630.9 ± 630.4 (12)	12	1312.9 ± 346.0 (28)	13		
15.1	381.6 ± 387.6 (21)	7	0.0 ± 0.0 (0)	0	103.3 ± 47.8 (2)	4	279.1 ± 74.2 (7)	8	345.6 ± 134.7 (4)	11	0.0 ± 0.0 (0)	0	339.9 ± 240.4 (34)	11		
15.2	58.0 ± 58.1 (24)	7	0.0 ± 0.0 (0)	0	0.0 ± 0.0 (0)	0	0.0 ± 0.0 (0)	0	0.0 ± 0.0 (0)	0	434.1 ± 167.2 (16)	11	208.4 ± 75.4 (40)	11		
15.3	177.5 ± 171.4 (24)	7	0.0 ± 0.0 (0)	0	0.0 ± 0.0 (0)	0	0.0 ± 0.0 (0)	0	260.5 ± 78.0 (5)	7	440.9 ± 140.8 (11)	9	260.3 ± 111.1 (40)	10		
16.1	4.1 ± 7.1 (36)	5	0.0 ± 0.0 (0)	0	0.0 ± 0.0 (0)	0	0.0 ± 0.0 (0)	0	0.0 ± 0.0 (0)	0	0.0 ± 0.0 (0)	0	4.1 ± 7.1 (36)	5		
16.2	3.1 ± 3.7 (24)	5	0.0 ± 0.0 (0)	0	0.0 ± 0.0 (0)	0	0.0 ± 0.0 (0)	0	0.0 ± 0.0 (0)	0	0.0 ± 0.0 (0)	0	3.1 ± 3.7 (24)	5		
18.1	56.0 ± 38.0 (18)	9	0.0 ± 0.0 (0)	0	352.9 ± 180.4 (3)	7	170.2 ± 114.2 (6)	8	650.7 ± 641.9 (2)	7	684.1 ± 179.2 (3)	9	201.3 ± 55.6 (32)	9		
18.2	22.3 ± 13.1 (13)	10	0.0 ± 0.0 (0)	0	84.1 ± 26.1 (3)	9	191.6 ± 77.0 (9)	10	289.6 ± 107.8 (10)	11	302.3 ± 80.3 (5)	11	166.9 ± 34.0 (40)	11		
18.3	170.8 ± 75.3 (14)	10	0.0 ± 0.0 (0)	0	153.0 ± 54.6 (6)	10	453.5 ± 159.4 (5)	11	534.7 ± 136.9 (8)	8	589.2 ± 140.9 (7)	12	352.4 ± 50.2 (40)	12		
19.1	15.4 ± 10.6 (9)	10	0.0 ± 0.0 (0)	0	26.9 ± 24.7 (5)	10	72.8 ± 52.1 (2)	7	312.0 ± 131.7 (2)	6	234.5 ± 141.5 (11)	13	124.9 ± 54.8 (29)	13		
19.2	26.9 ± 0.0 (1)	7	0.0 ± 0.0 (0)	0	83.1 ± 32.5 (2)	8	145.1 ± 63.0 (1)	13	239.3 ± 124.0 (5)	12	246.9 ± 65.1 (8)	13	188.1 ± 39.8 (24)	13		
19.3	99.4 ± 0.0 (1)	7	173.0 ± 0.0 (1)	7	67.9 ± 40.3 (2)	5	334.3 ± 66.3 (2)	7	240.1 ± 83.3 (2)	8	400.5 ± 153.1 (12)	11	310.9 ± 92.6 (20)	11		
20.1	50.0 ± 46.2 (12)	8	0.0 ± 0.0 (0)	0	180.7 ± 125.4 (2)	6	0.0 ± 0.0 (0)	0	783.1 ± 340.3 (2)	6	1391.4 ± 913.0 (16)	10	774.7 ± 457.4 (32)	10		
20.2	91.8 ± 44.9 (8)	5	0.0 ± 0.0 (0)	0	245.2 ± 0.0 (1)	6	477.1 ± 202.1 (3)	6	760.9 ± 505.5 (2)	7	1103.3 ± 722.7 (21)	11	755.6 ± 389.9 (40)	12		
22.1	23.3 ± 22.7 (11)	5	0.0 ± 0.0 (0)	0	120.3 ± 0.0 (1)	5	131.1 ± 94.0 (7)	6	226.7 ± 162.7 (8)	10	538.6 ± 0.0 (1)	7	130.5 ± 52.8 (28)	10		
22.2	24.7 ± 26.4 (12)	7	0.0 ± 0.0 (0)	0	32.7 ± 22.3 (7)	8	204.0 ± 147.9 (3)	8	211.2 ± 107.9 (6)	7	173.4 ± 74.2 (12)	8	112.1 ± 30.9 (40)	11		
23.1	51.0 ± 29.2 (10)	7	0.0 ± 0.0 (0)	0	0.0 ± 0.0 (0)	0	49.0 ± 29.2 (2)	7	97.4 ± 42.3 (11)	11	283.6 ± 105.9 (5)	12	110.0 ± 28.8 (20)	13		
23.2	32.0 ± 20.1 (4)	4	0.0 ± 0.0 (0)	0	127.3 ± 133.1 (2)	5	97.0 ± 59.0 (11)	12	102.8 ± 34.7 (10)	13	87.5 ± 0.0 (1)	9	91.7 ± 28.1 (20)	14		
24.1	62.9 ± 83.2 (7)	6	0.0 ± 0.0 (0)	0	56.9 ± 21.9 (4)	6	253.3 ± 182.9 (8)	8	439.4 ± 289.6 (14)	10	699.1 ± 194.7 (7)	10	343.5 ± 114.0 (40)	11		
24.2	21.6 ± 0.0 (1)	7	0.0 ± 0.0 (0)	0	21.9 ± 0.1 (6)	6	35.6 ± 16.0 (5)	8	254.6 ± 104.0 (9)	10	273.6 ± 98.3 (19)	11	196.8 ± 52.3 (40)	11		
26.1	18.4 ± 14.6 (26)	9	0.0 ± 0.0 (0)	0	9.3 ± 6.9 (2)	4	0.0 ± 0.0 (0)	0	0.0 ± 0.0 (0)	0	0.0 ± 0.0 (0)	0	17.7 ± 13.6 (28)	10		
26.2	31.4 ± 16.3 (11)	9	0.0 ± 0.0 (0)	0	24.4 ± 15.2 (4)	8	103.0 ± 48.4 (8)	11	132.2 ± 56.2 (5)	11	0.0 ± 0.0 (0)	0	68.9 ± 18.4 (28)	12		
28.1	27.6 ± 14.0 (19)	9	0.0 ± 0.0 (0)	0	42.8 ± 0.0 (1)	5	126.2 ± 53.6 (8)	9	140.1 ± 60.7 (4)	10	0.0 ± 0.0 (0)	0	66.8 ± 17.5 (32)	10		
28.2	23.4 ± 9.7 (8)	8	0.0 ± 0.0 (0)	0	207.3 ± 127.3 (4)	10	311.0 ± 299.8 (6)	10	423.8 ± 187.1 (11)	11	387.8 ± 154.3 (11)	11	295.2 ± 81.5 (40)	11		
28.3	22.2 ± 8.8 (8)	6	0.0 ± 0.0 (0)	0	0.0 ± 0.0 (0)	0	545.8 ± 359.2 (5)	10	758.9 ± 321.5 (11)	12	1069.8 ± 522.7 (16)	12	709.3 ± 231.4 (40)	13		
30.1	11.4 ± 29.8 (31)	5	0.0 ± 0.0 (0)	0	0.0 ± 0.0 (0)	0	61.3 ± 0.0 (1)	4	0.0 ± 0.0 (0)	0	0.0 ± 0.0 (0)	0	12.9 ± 28.9 (32)	5		
30.2	24.4 ± 32.2 (36)	6	0.0 ± 0.0 (0)	0	79.4 ± 38.2 (4)	5	0.0 ± 0.0 (0)	0	0.0 ± 0.0 (0)	0	0.0 ± 0.0 (0)	0	29.9 ± 29.3 (40)	6		
30.3	14.4 ± 17.5 (32)	5	61.2 ± 79.5 (6)	4	50.2 ± 18.8 (2)	2	0.0 ± 0.0 (0)	0	0.0 ± 0.0 (0)	0	0.0 ± 0.0 (0)	0	23.2 ± 18.4 (40)	5		

a - Includes 14 taxa as listed in Table 3.

b - Estimate of % cover by volume.

c - Taxonomic diversity.

d - Wetland survey dates: .1-June, .2-early July, .3-late July.

Table 25(cont). Dry weights(mg) from mean number of selected aquatic invertebrate taxa<sup>a</sup>, by vegetation cover, from sweep net(0.5mm mesh) samples of selected Riske Creek wetlands, summer 1985.

Wetland no.	VEGETATION COVER <sup>b</sup>										TOTAL	
	0 % Mean ± SD(n) TD <sup>c</sup>	>0-1 % Mean ± SD(n) TD	>1-5 % Mean ± SD(n) TD	>5-25 % Mean ± SD(n) TD	>25-50 % Mean ± SD(n) TD	>50-100 % Mean ± SD(n) TD						
31.1	6.9 ± 14.2(20) 9	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	39.1 ± 76.1( 9) 9	13.6 ± 0.0( 1) 3	98.6 ± 87.3( 2) 7	21.9 ± 23.8(32) 12					
.2	1.9 ± 1.7(15) 6	0.0 ± 0.0( 0) 0	24.1 ± 13.7(10) 10	38.0 ± 28.1(10) 10	123.0 ± 0.0( 1) 6	0.0 ± 0.0( 0) 0	21.1 ± 7.9(40) 13					
.3	21.6 ± 14.2(18) 8	41.4 ± 20.1( 4) 11	162.5 ± 88.7(11) 13	228.0 ± 98.0( 7) 13	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	98.6 ± 30.7(40) 14					
33.1	4.9 ± 5.7(40) 7	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	4.9 ± 5.7(40) 7					
.2	5.3 ± 5.3(40) 5	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	5.3 ± 5.3(40) 5					
40.1	47.9 ± 77.6(27) 10	0.0 ± 0.0( 0) 0	175.5 ± 71.4( 3) 3	236.7 ± 171.1(10) 12	0.0 ± 0.0( 1) 5	0.0 ± 0.0( 0) 0	107.2 ± 50.0(50) 12					
.2	210.4 ± 733.2(28) 11	0.0 ± 0.0( 0) 0	176.5 ± 71.4( 3) 3	230.5 ± 112.9( 5) 5	1212.2 ± 0.0( 1) 5	0.0 ± 0.0( 0) 0	274.9 ± 516.4(40) 11					
41.1	1.0 ± 2.1(40) 2	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	1.0 ± 2.1(40) 2					
.2	5.7 ± 8.8(40) 4	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	5.7 ± 8.8(40) 4					
42.1	114.0 ± 71.6(23) 10	0.0 ± 0.0( 0) 0	112.2 ± 39.1( 7) 11	229.6 ± 189.2( 7) 5	429.1 ± 0.0( 1) 5	137.2 ± 60.1( 2) 8	143.4 ± 46.0(48) 12					
.2	44.7 ± 22.0(17) 10	0.0 ± 0.0( 0) 0	99.0 ± 40.2(12) 11	76.1 ± 37.4( 3) 10	372.2 ± 170.3( 5) 10	155.6 ± 44.8( 3) 10	112.6 ± 27.7(40) 11					
50.1	25.3 ± 14.2(30) 9	0.0 ± 0.0( 0) 0	34.5 ± 13.5( 3) 6	136.2 ± 57.3( 5) 11	145.4 ± 98.2( 2) 6	0.0 ± 0.0( 0) 0	45.9 ± 13.8(40) 11					
.2	27.2 ± 29.0(29) 9	0.0 ± 0.0( 0) 0	24.9 ± 12.5( 3) 6	78.4 ± 36.8( 7) 11	143.3 ± 0.0( 1) 8	0.0 ± 0.0( 0) 0	30.9 ± 22.0(40) 11					
51.1	51.3 ± 68.5(20) 9	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	51.3 ± 68.5(20) 9					
.2	22.4 ± 17.9(17) 8	0.0 ± 0.0( 0) 0	29.2 ± 17.6( 8) 9	16.6 ± 5.3( 3) 8	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	23.7 ± 12.0(28) 9					
52.1	50.0 ± 36.6(18) 11	0.0 ± 0.0( 0) 0	124.9 ± 67.2( 4) 12	147.0 ± 88.0(11) 12	223.6 ± 121.9( 6) 14	136.8 ± 0.0( 1) 7	112.4 ± 35.1(40) 14					
.2	20.9 ± 27.2(19) 11	0.0 ± 0.0( 0) 0	60.7 ± 61.4( 6) 12	94.4 ± 40.4(12) 14	170.3 ± 96.1( 3) 13	0.0 ± 0.0( 0) 0	60.1 ± 22.7(40) 14					
53.1	130.4 ± 116.8(15) 7	0.0 ± 0.0( 0) 0	49.4 ± 0.0( 0) 0	67.9 ± 48.8( 8) 10	71.8 ± 45.2(11) 11	63.4 ± 31.4( 6) 10	94.8 ± 46.8(39) 12					
.2	94.9 ± 60.3(9) 7	0.0 ± 0.0( 0) 0	49.4 ± 0.0( 0) 0	56.7 ± 36.6( 3) 10	105.4 ± 34.0( 5) 10	203.3 ± 66.5(21) 12	153.6 ± 48.9(39) 12					
54.1	46.1 ± 24.1(18) 7	0.0 ± 0.0( 0) 0	111.3 ± 46.9( 9) 10	507.0 ± 290.6( 3) 9	693.8 ± 0.0( 1) 4	264.0 ± 231.1( 3) 6	270.8 ± 114.7(40) 12					
.2	70.5 ± 66.6(12) 7	0.0 ± 0.0( 0) 0	70.5 ± 44.2( 2) 4	503.6 ± 370.8( 5) 1	511.3 ± 235.1( 1) 10	381.8 ± 176.8(13) 11	314.4 ± 90.3(40) 14					
56.1	27.1 ± 13.0(27) 10	0.0 ± 0.0( 0) 0	21.4 ± 49.1( 2) 7	110.0 ± 0.0( 1) 5	321.7 ± 112.9( 7) 8	453.7 ± 97.0( 3) 9	116.0 ± 24.0(40) 10					
.2	30.1 ± 23.3(27) 8	0.0 ± 0.0( 0) 0	18.1 ± 6.7( 2) 7	119.5 ± 49.7(11) 9	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	54.1 ± 20.8(40) 9					
60.1	53.6 ± 71.5(18) 10	0.0 ± 0.0( 0) 0	41.0 ± 25.5( 5) 11	115.5 ± 109.3( 6) 10	143.5 ± 20.8( 2) 9	96.1 ± 0.0( 1) 6	79.2 ± 45.3(32) 13					
.2	62.5 ± 64.4(25) 8	0.0 ± 0.0( 0) 0	101.9 ± 102.1(11) 10	85.4 ± 29.5( 4) 8	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	75.6 ± 49.1(40) 11					
68.1	23.1 ± 21.9(14) 3	0.0 ± 0.0( 0) 0	60.1 ± 45.2( 7) 9	97.0 ± 43.0( 6) 9	206.1 ± 72.5( 5) 11	340.7 ± 98.9( 8) 10	128.6 ± 25.2(40) 12					
.2	96.2 ± 76.7( 6) 4	0.0 ± 0.0( 0) 0	61.2 ± 24.0( 6) 11	193.1 ± 127.2( 8) 11	232.0 ± 105.4(12) 10	301.8 ± 100.1( 8) 13	192.2 ± 46.8(40) 14					
70.1	35.0 ± 25.9(18) 11	0.0 ± 0.0( 0) 0	158.0 ± 72.0( 5) 9	122.5 ± 69.2( 3) 11	353.7 ± 108.8( 6) 10	685.0 ± 349.9( 8) 11	235.1 ± 73.5(40) 13					
.2	43.1 ± 36.4(14) 10	0.0 ± 0.0( 0) 0	212.4 ± 75.0( 4) 8	350.2 ± 151.1(10) 11	824.3 ± 526.8( 5) 12	953.0 ± 416.3( 7) 12	395.7 ± 106.3(40) 13					
71.1	26.7 ± 13.3(13) 10	94.1 ± 0.0( 1) 8	187.3 ± 54.1( 9) 11	131.4 ± 162.9(11) 12	510.9 ± 389.9( 8) 12	1190.5 ± 505.5(12) 12	566.9 ± 167.7(40) 14					
.2	28.7 ± 13.4(13) 9	94.1 ± 0.0( 1) 8	187.3 ± 54.1( 9) 11	131.4 ± 162.8(11) 12	511.5 ± 202.3(13) 12	849.7 ± 261.1( 5) 10	427.0 ± 86.1(40) 12					
76.1	32.4 ± 22.6(40) 10	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	32.4 ± 22.6(40) 10					
.2	34.2 ± 44.2(40) 8	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	34.2 ± 44.2(40) 8					
77.1	43.3 ± 26.1(17) 5	0.0 ± 0.0( 0) 0	84.6 ± 0.0( 1) 5	140.1 ± 21.6( 3) 6	694.2 ± 339.2(12) 10	526.9 ± 413.4( 7) 6	332.1 ± 125.3(40) 11					
.2	21.9 ± 12.7(16) 5	0.0 ± 0.0( 0) 0	41.1 ± 21.6( 4) 4	125.4 ± 31.5( 4) 8	171.9 ± 67.1(12) 9	303.7 ± 148.6( 4) 8	107.4 ± 25.8(40) 10					
89.1	16.5 ± 14.8(15) 3	0.0 ± 0.0( 0) 0	94.0 ± 20.6( 5) 8	92.5 ± 48.0(16) 9	102.9 ± 55.1( 4) 7	436.4 ± 0.0( 0) 6	291.6 ± 21.5(40) 11					
.2	38.0 ± 74.2(21) 8	0.0 ± 0.0( 0) 0	199.8 ± 224.5( 6) 9	467.9 ± 164.7( 8) 10	1371.6 ± 1050.6( 4) 11	436.4 ± 0.0( 0) 6	291.6 ± 21.5(40) 11					
95.1	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	51.8 ± 0.0( 1) 6	161.2 ± 63.9( 5) 11	156.3 ± 107.0( 7) 11	153.1 ± 65.3( 3) 11	150.7 ± 52.3(16) 12					
101.1	15.3 ± 15.4(19) 6	0.0 ± 0.0( 0) 0	5.9 ± 0.0( 1) 2	97.3 ± 39.3( 8) 7	113.7 ± 61.7( 3) 5	268.1 ± 82.7( 3) 6	72.5 ± 18.6(40) 9					
.2	27.2 ± 27.0(20) 7	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	167.9 ± 56.8( 4) 6	373.9 ± 174.3( 3) 7	407.6 ± 149.1( 5) 7	114.8 ± 30.1(40) 9					
102.1	6.2 ± 7.1(16) 5	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	55.3 ± 19.0( 2) 6	97.3 ± 38.0(10) 9	0.0 ± 0.0( 0) 0	42.2 ± 14.2(28) 9					
.2	9.0 ± 7.4(22) 5	0.0 ± 0.0( 0) 0	66.4 ± 32.7( 4) 6	121.9 ± 59.6( 2) 5	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	25.3 ± 8.6(28) 7					
104.1	129.9 ± 90.4(16) 6	0.0 ± 0.0( 0) 0	0.0 ± 0.0( 0) 0	216.2 ± 97.3( 4) 8	1717.5 ± 979.1( 8) 10	0.0 ± 0.0( 0) 0	595.9 ± 284.8(28) 11					
.2	344.6 ± 472.0(16) 6	0.0 ± 0.0( 0) 0	71.2 ± 0.0( 1) 3	1200.3 ± 711.7( 6) 11	2414.0 ± 710.3( 4) 11	4503.6 ± 0.0( 1) 5	964.1 ± 326.8(28) 12					
110.1	6.2 ± 5.4(11) 3	0.0 ± 0.0( 0) 0	22.7 ± 15.9( 2) 3	24.2 ± 12.5( 6) 2	87.9 ± 27.4( 3) 4	0.0 ± 0.0( 0) 0	25.0 ± 5.8(24) 4					
.2	6.2 ± 4.7(14) 4	0.0 ± 0.0( 0) 0	22.7 ± 15.9( 2) 3	52.8 ± 32.5( 6) 4	87.9 ± 42.9( 2) 4	0.0 ± 0.0( 0) 0	25.2 ± 9.8(24) 4					

a - Includes 14 taxa as listed in Table 3.

b - Estimate of % cover by volume.

c - Taxonomic diversity.

d - Wetland survey dates: .1-June, .2-early July, .3-late July.

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