

Table 4-1. Summary data for potential fish food items collected in surfzone ichthyoplankton. Values as Numbers of Animals/100m³

Data	95 Early June	95 Late June	95 July	96 June	96 July	97 June	97 July	98 May	98 June	98 July	99 May	99 June	99 July
Insecta (LPIL)*	974	16	66	1200	310	84	30	1534	628	325	1975	19	124
<i>Telmatogeton</i> (LPIL)	8	9	1						1				18
<i>Gammarus annulatus</i>	5847	362	713	952	430	16	17	45	1451	499	797	5152	37568
<i>G. mucronatus</i>				6									
<i>Jassa falcata</i>	327	177	42	555	819	233	38	119	276	112	62	18	21
<i>Unciola irrorata</i>		31				1						3	
<i>Hyale plumulosa</i>	8	2	1	130	170		21	10		6			
<i>Stenothoe minuta</i>	4		2	14	17	5		1					10
<i>Corophium insidiosum</i>		21		4	22								
<i>Parahasutorius attenuatus</i>		7	9		6	4	9						
Haustoriidae (LPIL)**			2		7		2					2	
<i>Aeginina longicornis</i>		13							16				
<i>Talorchestia</i> (LPIL)					7								
Hyperiididae (LPIL)					3								
<i>Pseudoleptocuma minor</i>					9								
<i>Idotea balthica</i>	69	100	890	1623	273	61	69		3	22	13		1
<i>Edotia triloba</i>	37	458	74	130	90	48	321	63	162	6	1		
<i>Chirodotea tuftsi</i>						1	2						
Parasitic Isopod		1	2	26	5	1		1	1				
<i>Americamysis bigelowi</i>		2											
<i>Neomysis americana</i>		2			59	2	30						
<i>Emertia talpoida</i>	1		1					3		6	19	6	2
Crab Megalops	6961	4235	27	641	285	1860	1960	1	3598	948	100	592	9375
<i>Crangon septemspinosa</i>	5	4	5	56	15			41	64		14	40	4435
<i>Palaemonetes</i> (LPIL)		28	15		124	3	566	32	71	1499			
Other Shrimp	13	2					4		2	20			
<i>Cancer irroratus</i>	527	418	1	272	19	26	18		95		2	170	5
<i>Callinectes sapidus</i>		13	2		1								
<i>Ovalipes ocellatus</i>							1215			1183			
Grapsidae (LPIL)							5						
Paguridae (LPIL)					5	2	33			66		5	1123
Stomatopoda (LPIL)							34		2				1

Table 4-1. Summary data for potential fish food taxa collected in surfzone ichthyoplankton. Values as Numbers of Animals/100m³

Data	95 Early June	95 Late June	95 July	96 June	96 July	97 June	97 July	98 May	98 June	98 July	99 May	99 June	99 July
<i>Limulus polyphemus</i>			1										
Copepoda (LPIL)	232519	79728	68020	453765	1379735	37018	136610	24991	107899	1595837	415	285	7930
Siphonostomatoida (LPIL)		1			10	5		5			2		
<i>Scolelepis squamata</i>	21	19		24	7	27	37	11	1	19	55	12	74
Nereis (LPIL)	12												
Polynoidae (LPIL)	22	9	1	14	29	1	4	2	5				
<i>Pherusa affinis</i>		17											
Cirratulidae (LPIL)		6											
Syllidae (LPIL)	1	10			2	3		12	3				
<i>Tomopterus</i> (LPIL)					8		401			4			
Phyllodocidae (LPIL)							1		1				
<i>Paranaitis</i> (LPIL)									1				
Rhynchocoela (LPIL)				1									
<i>Mytilus edulis</i>	3210	884	111	10155	5355	204	177	2835	704	103	616	827	23
<i>Tellina agilis</i>					6				6				
Nudibranch (LPIL)								7					

*Insecta is comprised of adult (flying) terrestrial insects- primarily carpenter ants and assortment of flies, beetles, and wasps

**Haustoriidae includes *Parahaustorius holmesi*, *Acanthohaustorius millsi*, and *Haustorius canadensis*

Table 4-2. Summary data for potential fish food items collected in surfzone and nearshore ichthyoplankton in 1999¹

Taxa	May			June			July		
	Surfzone	Nearshore Surface	Nearshore Bottom	Surfzone	Nearshore Surface	Nearshore Bottom	Surfzone	Nearshore Surface	Nearshore Bottom
<i>Gammarus annulatus</i>	797	2.4	409.6	5152	62.7	2227.2	37568	0.4	1.0
<i>Jassa falcata</i>	62	1.3	6.8	18		0.6	21		
<i>Americhelidium americanum</i>			0.7						
<i>Unciola irrorata</i>				3					
Haustoriidae				2					
<i>Phthois macrocoxa</i>							10		
<i>Idotea metallica</i>		0.1				0.3			
<i>Idotea baltica</i>	13						12		
<i>Edotia triloba</i>	1	0.3	3.2		4.2	12.8			
<i>Chirodotea tuftsi</i>		0.2	0.7						
Parasitic Isopod		0.4			0.2				
<i>Mysidopsis bigelowi</i>			2.3						
<i>Neomysis americana</i>			3.2						
<i>Emerita talpoida</i>	19			6			2		
Crab Megalops	100	0.6		592	144.9	10.1	10495	48.0	52.0
<i>Cancer irroratus</i> (juv.)	2			170		0.8	5		
<i>Ovalipes ocellatus</i> (juv.)								X	
Juvenile Shrimp*	14	0.7	5.2	40	6.9	5.6	4592	30.4	397.7
Juvenile Paguridae				5			1123		
<i>Platysquilloides enodis</i>							1	1.1	1.2
<i>Leptocuma minor</i>			1.0			0.2			
<i>Oxyurostylis smithi</i>									
Siphonstomatoida (LPIL)	2								
Insects**	1975	0.1		19	0.2		337	0.8	0.3
<i>Telmatogeton</i> (LPIL) [†]							18		
Copepods	415	19.9	10.4	284	6016.5	3806.8	8109		
<i>Mytilus edulis</i>	616	1.4	3.4	827	0.3		23		
<i>Scolelepis squamata</i>	55			12			80		
<i>Asabellides oculata</i>			0.9						

Table 4-2. Summary data for potential fish food items collected in surfzone and nearshore ichthyoplankton in 1999¹

Taxa	May			June			July		
	Surfzone	Nearshore Surface	Nearshore Bottom	Surfzone	Nearshore Surface	Nearshore Bottom	Surfzone	Nearshore Surface	Nearshore Bottom
Syllidae		X			X			X	X
Phyllodidae					X				X
Terebellidae									X
<i>Tomopterus</i> (LPIL)					X		X	X	

¹Values as Numbers Animals/100m³

**Crangon*, *Palaemonetes*, & *Penaeus*

**Mixture of Adult Hymenoptera, Diptera, Coleoptera, Hemiptera, & Homoptera

^GSame taxon on groins

X = Present

Table 4-3. Summary Data for Rocky Groin Scrape Samples

Groin	Side	Barnacles	<i>Mytilus edulis</i>	<i>Ulva</i> (LPIL)	<i>Telmatogeton</i> (LPIL)	<i>Hyale plumulosa</i>
80	North	Heavy	Few	Heavy	Many	Few
80	South	Moderate	Few	Heavy		
82	North	Few	Moderate	Moderate	Many	Few
82	South	Few		Heavy		
84	North	Few	Moderate	Moderate		
84	South	Few	Few	Heavy	Moderate	Moderate
105	North	Heavy				
105	South	Moderate		Heavy		
109	North	Moderate	Few	Heavy	Moderate	Moderate
109	South	Moderate	Moderate	Heavy		
111	North	Moderate	Moderate	Heavy	Many	Few
111	South	Few	Heavy	Moderate	Many	Many