

APPENDIX E - FISH PARASITES

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E1. Station data for 79 locations in the Southern California Bight, July through October 2003.

Station	Type	Location	Lat N (dm)	Long W (dm)	Depth (m)
4006	non-outfall	Santa Monica Bay	33 51.623	118 26.883	61
4021	non-outfall	Santa Monica Bay	33 55.720	118 28.969	36
4026	non-outfall	San Pedro Shelf	33 37.263	118 11.704	43
4029	non-outfall	Northern Channel Islands	34 02.050	119 21.096	82
4030	small POTW	Laguna Shelf	33 30.709	117 46.280	42
4037	non-outfall	Santa Monica Bay	33 59.890	118 42.572	60
4040	small POTW	Oceanside Shelf	33 09.167	117 23.245	58
4041	large POTW	San Pedro Shelf	33 34.042	117 59.377	70
4042	large POTW	San Pedro Shelf	33 41.725	118 17.770	22
4045	large POTW	Santa Monica Bay	33 56.092	118 32.386	57
4048	non-outfall	Oceanside Shelf	33 05.284	117 21.059	72
4064	small POTW	Oceanside Shelf	33 00.368	117 17.800	27
4070	large POTW	Palos Verdes Shelf	33 45.512	118 26.779	72
4073	large POTW	San Pedro Shelf	33 35.861	118 02.768	39
4077	large POTW	Santa Monica Bay	33 55.318	118 31.232	57
4086	non-outfall	Santa Monica Bay	33 50.128	118 28.189	99
4090	non-outfall	San Pedro Shelf	33 39.574	118 07.839	28
4096	non-outfall	Oceanside Shelf	33 16.195	117 33.891	81
4101	non-outfall	Santa Monica Bay	33 59.896	118 33.555	38
4102	large POTW	Palos Verdes Shelf	33 43.246	118 21.878	41
4109	large POTW	Santa Monica Bay	33 57.518	118 31.186	44
4113	non-outfall	San Pedro Shelf	33 35.422	117 58.269	41
4115	non-outfall	Northern Channel Islands	34 04.738	119 42.071	90
4122	non-outfall	San Pedro Shelf	33 36.265	118 08.428	47
4134	non-outfall	Santa Monica Bay	33 49.190	118 25.627	78
4137	large POTW	San Pedro Shelf	33 34.615	118 00.696	55
4141	large POTW	Santa Monica Bay	33 55.475	118 31.573	55
4150	non-outfall	Santa Monica Bay	33 52.613	118 28.220	61
4152	small POTW	Oceanside Shelf	33 06.880	117 21.457	90
4154	non-outfall	San Pedro Shelf	33 37.493	118 04.514	34
4155	non-outfall	Northern Channel Islands	34 06.098	120 08.543	101
4159	non-outfall	Northern Channel Islands	33 59.677	120 20.242	72
4164	non-outfall	San Diego Shelf	32 43.762	117 20.667	102
4165	non-outfall	Santa Monica Bay	34 00.832	118 35.492	34
4166	large POTW	Palos Verdes Shelf	33 42.472	118 21.433	67
4170	large POTW	Palos Verdes Shelf	33 41.911	118 18.230	25
4172	non-outfall	San Diego Shelf	32 35.692	117 14.711	45
4173	non-outfall	Santa Monica Bay	33 54.470	118 34.018	86
4183	small POTW	Santa Barbara Shelf	34 23.993	119 49.831	35
4184	large POTW	San Diego Shelf	32 41.276	117 19.436	91
4185	non-outfall	Santa Monica Bay	33 59.525	118 47.897	44
4200	small POTW	Oceanside Shelf	33 09.545	117 23.857	58
4205	large POTW	Santa Monica Bay	33 55.671	118 32.626	69
4230	large POTW	Santa Monica Bay	33 53.876	118 30.080	53
4232	small POTW	Oceanside Shelf	33 06.435	117 21.443	74

E1. (continued)

Station	Type	Location	Lat N (dm)	Long W (dm)	Depth (m)
4235	non-outfall	Northern Channel Islands	33 53.191	120 00.605	54
4243	non-outfall	Northern Channel Islands	33 57.941	119 36.289	87
4255	non-outfall	Northern Channel Islands	34 03.115	120 33.481	198
4256	non-outfall	San Diego Shelf	32 35.373	117 13.686	36
4265	large POTW	San Pedro Shelf	33 35.488	118 01.595	38
4277	large POTW	Santa Monica Bay	33 54.576	118 29.980	52
4280	small POTW	Oceanside Shelf	33 06.889	117 20.886	41
4286	small POTW	Laguna Shelf	33 30.201	117 45.899	40
4294	large POTW	Palos Verdes Shelf	33 44.144	118 24.581	26
4296	small POTW	Oceanside Shelf	33 09.116	117 22.999	50
4312	large POTW	San Diego Shelf	32 41.456	117 20.157	121
4326	large POTW	Palos Verdes Shelf	33 44.581	118 25.428	41
4328	small POTW	Oceanside Shelf	33 09.719	117 23.157	31
4339	non-outfall	Northern Channel Islands	33 57.191	119 41.211	63
4347	non-outfall	Northern Channel Islands	34 06.780	120 01.559	109
4351	non-outfall	Northern Channel Islands	34 04.267	120 19.738	50
4365	large POTW	Santa Monica Bay	33 57.624	118 31.762	48
4369	large POTW	San Pedro Shelf	33 34.506	117 59.093	57
4384	small POTW	Oceanside Shelf	32 59.933	117 18.070	40
4481	non-outfall	Northern Channel Islands	34 05.786	120 07.431	98
4613	non-outfall	Northern Channel Islands	34 06.427	120 12.439	103
4657	non-outfall	Northern Channel Islands	34 03.390	119 28.280	84
A-0.5-S	small POTW	Oceanside Shelf	33 00.006	117 18.018	38
A-14-S	non-outfall	Oceanside Shelf	32 57.747	117 17.460	32
A2	small POTW	Oceanside Shelf	33 09.773	117 23.393	32
A-4-S	small POTW	Oceanside Shelf	32 59.471	117 17.907	40
C1	non-outfall	Santa Monica Bay	33 59.830	118 43.050	61
T1	large POTW	San Pedro Shelf	33 34.641	118 00.567	55
T11	non-outfall	San Pedro Shelf	33 36.055	118 05.199	60
T12	large POTW	San Pedro Shelf	33 34.868	118 01.670	57
T3	non-outfall	San Pedro Shelf	33 34.856	117 57.345	55
Z2	large POTW	Santa Monica Bay	33 54.450	118 31.460	60
zone 2	large POTW	San Diego Shelf	32 38.792	117 19.241	94

E2. Complete classification of parasite taxa collected at depths of 22-198 m in the southern California Bight, July through October 2003.

Taxon/Species

PLATYHELMINTHES

Monogenea

Monopisthocotylea

Capsalidae

Entobdella hippoglossi (Müller, 1776)

Polyopisthocotylea

Diclidophoridae

Neoheterobothrium hippoglossini Piasecki et al., 2000

Microcotylidae

Microcotyle sebastis Goto, 1894

ANNELIDA

Clitellata

Hirudinida

Rhynchobdellida

Piscicolidae

Austrobdella californiana Burreson, 1977

Austrobdella sp. 1

Austrobdella sp. 2

Austrobdella sp. 3

ARTHROPODA

Crustacea

Maxillopoda

Branchiura

Arguloidea

Argulidae

Argulus sp.

Copepoda

Poecilostomatoida

Bomolochidae

Holobomolochus prolixus (Cressey, 1969)

Holobomolochus spinulus (Cressey, 1969)

Chondracanthidae

Acanthochondria cyclopsetta Pearse, 1952

Acanthochondria dojirii Kabata, 1984

Acanthochondria fraseri Ho, 1972

Acanthochondria hoi Kalman, 2003

Acanthochondria margolisi Kabata, 1984

Auchenochondria lobosa Dojiri and Perkins, 1979

Protochondria longicauda Ho, 1970

Pseudodiocus scorpaenus Ho, 1972

Taeniacanthidae

Taeniacanthodes haakeri Ho, 1972

E2. (continued)

Taxon/Species

Siphonostomatoida

Caligidae

Caligus pectinatus Shiino, 1965

Caligus sp.

Lepeophtheirus bifurcatus Wilson, 1905

Lepeophtheirus pravipes Wilson, 1912

Lepeophtheirus remiopsis Dojiri, 1979

Lepeophtheirus rotundipes Dojiri, 1979

Lepeophtheirus spatha Dojiri and Brantley, 1991

Lepeophtheirus sp.

chalimus

Lernaeopodidae

Clavella parva (Wilson, 1912)

Naobranchia occidentalis Wilson, 1915

Naobranchia scorpaenae Dojiri, 1981

Parabrachiella paralichthyos (Castro-Romero & Baeza-Kuroki, 1986)

Parabrachiella robusta (Wilson, 1912)

Parabrachiella sp. 1

Pennellidae

Phrixecephalus cincinnatus Wilson, 1908

Malacostraca

Eumalacostraca

Isopoda

Cymothoidae

Elthusia californica (Schioedte and Meinert, 1883)

Elthusia vulgaris (Stimpson, 1857)

aegathoid

Gnathiidae

praniza

E3. Host-parasite list of organisms collected at depths of 22-198 m in the Southern California Bight, July through October 2003.

Host	Parasite		
	Species	Family	n
SCORPAENIFORMES			
Scorpaenidae			
<i>Scorpaena guttata</i>	* <i>Austrobdella</i> sp. 1	Piscicolidae	50
	<i>Holobomolochus spinulus</i>	Bomolochidae	3
	<i>Pseudodiocus scorpaenus</i>	Chondracanthidae	83
	<i>Lepeophtheirus rotundipes</i>	Caligidae	790
	<i>Naobranchia scorpaenae</i>	Lernaeopodidae	9,173
	* <i>Elthusa californica</i>	Cymothoidae	1
	<i>Elthusa vulgaris</i>	Cymothoidae	2
	* praniza	Gnathiidae	30
<i>Sebastes caurinus</i>	not infected	----	----
<i>Sebastes chlorostictus</i>	<i>Microcotyle sebastis</i>	Microcotylidae	37
<i>Sebastes dallii</i>	not infected	----	----
<i>Sebastes elongatus</i>	not infected	----	----
<i>Sebastes goodei</i>	not infected	----	----
<i>Sebastes jordani</i>	not infected	----	----
<i>Sebastes miniatus</i>	<i>Parabrachiella robusta</i>	Lernaeopodidae	95
	* praniza	Gnathiidae	1
<i>Sebastes paucispinis</i>	not infected	----	----
<i>Sebastes rubrivinctus</i>	not infected	----	----
<i>Sebastes saxicola</i>	<i>Microcotyle sebastis</i>	Microcotylidae	451
	* <i>Caligus pectinatus</i>	Caligidae	1
	* chalimus	Caligidae	2
	* <i>Clavella parva</i>	Lernaeopodidae	192
	* praniza	Gnathiidae	1
<i>Sebastes semicinctus</i>	* <i>Microcotyle sebastis</i>	Microcotylidae	9
	* chalimus	Caligidae	12
	* <i>Clavella parva</i>	Lernaeopodidae	14
	* praniza	Gnathiidae	3
Hexagrammidae			
<i>Ophiodon elongatus</i>	* chalimus	Caligidae	1
	<i>Elthusa vulgaris</i>	Cymothoidae	6
	* praniza	Gnathiidae	5
<i>Zaniolepis frenata</i>	not infected	----	----
<i>Zaniolepis latipinnis</i>	* chalimus	Caligidae	4
	praniza	Gnathiidae	1
Cottidae			
<i>Chitonotus pugetensis</i>	<i>Holobomolochus prolixus</i>	Bomolochidae	1
	* chalimus	Caligidae	3
	* <i>Elthusa californica</i>	Cymothoidae	1
<i>Icelinus quadriseriatus</i>	* chalimus	Caligidae	67
	* praniza	Gnathiidae	1
<i>Icelinus tenuis</i>	not infected	----	----

E3. (continued)

Host	Parasite		
	Species	Family	n
PLEURONECTIFORMES			
Paralichthyidae			
<i>Citharichthys fragilis</i>	* <i>Argulus</i> sp.	Argulidae	1
<i>Citharichthys sordidus</i>	* <i>Argulus</i> sp.	Argulidae	5
	<i>Holobomolochus prolixus</i>	Bomolochidae	6
	* <i>Lepeophtheirus remiopsis</i>	Caligidae	5
	chalimus	Caligidae	1
	<i>Naobranchia occidentalis</i>	Lernaeopodidae	62
	* <i>Parabrachiella</i> sp. 1	Lernaeopodidae	5
	<i>Phrixecephalus cincinnatus</i>	Pennellidae	272
	* <i>Elthusa californica</i>	Cymothoidae	1
	<i>Elthusa vulgaris</i>	Cymothoidae	32
	* aegathoid	Cymothoidae	5
	praniza	Gnathiidae	30
<i>Citharichthys stigmaeus</i>	<i>Holobomolochus prolixus</i>	Bomolochidae	500
	<i>Taeniacanthodes haakeri</i>	Taeniacanthidae	1
	* <i>Caligus pectinatus</i>	Caligidae	2
	<i>Caligus</i> sp.	Caligidae	1
	* <i>Lepeophtheirus remiopsis</i>	Caligidae	1
	chalimus	Caligidae	15
	* <i>Elthusa californica</i>	Cymothoidae	3
	<i>Elthusa vulgaris</i>	Cymothoidae	5
	* aegathoid	Cymothoidae	1
	praniza	Gnathiidae	8
<i>Citharichthys xanthostigma</i>	<i>Holobomolochus prolixus</i>	Bomolochidae	7
	* <i>Lepeophtheirus remiopsis</i>	Caligidae	4
	<i>Clavella parva</i>	Lernaeopodidae	48
	<i>Naobranchia occidentalis</i>	Lernaeopodidae	258
	* <i>Parabrachiella</i> sp. 1	Lernaeopodidae	54
	* <i>Phrixecephalus cincinnatus</i>	Pennellidae	1
	* <i>Elthusa californica</i>	Cymothoidae	1
	* <i>Elthusa vulgaris</i>	Cymothoidae	2
	praniza	Gnathiidae	65
<i>Hippoglossina stomata</i>	<i>Neoheterobothrium hippoglossini</i>	Diclidophoridae	71
	<i>Austrobdella californiana</i>	Piscicolidae	24
	<i>Holobomolochus prolixus</i>	Bomolochidae	65
	<i>Protochondria longicauda</i>	Chondracanthidae	8
	<i>Taeniacanthodes haakeri</i>	Taeniacanthidae	60
	* <i>Caligus pectinatus</i>	Caligidae	1
	<i>Lepeophtheirus remiopsis</i>	Caligidae	2
	<i>Lepeophtheirus</i> sp.	Caligidae	1
	chalimus	Caligidae	14
	* <i>Elthusa californica</i>	Cymothoidae	1
	praniza	Gnathiidae	23

E3. (continued)

Host	Parasite		
	Species	Family	n
<i>Paralichthys californicus</i>	<i>Entobdella hippoglossi</i>	Capsalidae	79
	<i>Holobomolochus prolixus</i>	Bomolochidae	73
	<i>Acanthochondria hoi</i>	Chondracanthidae	54
	<i>Auchenochondria lobosa</i>	Chondracanthidae	4
	<i>Taeniacanthodes haakeri</i>	Taeniacanthidae	1
	* <i>Caligus pectinatus</i>	Caligidae	1
	* <i>Lepeophtheirus remiopsis</i>	Caligidae	1
	<i>Lepeophtheirus spatha</i>	Caligidae	11
	chalimus	Caligidae	2
	* aegathoid	Cymothoidae	1
	* praniza	Gnathiidae	7
<i>Xystreurus liolepis</i>	* <i>Neoheterobothrium hippoglossini</i>	Diclidophoridae	34
	* <i>Austrobdella</i> sp. 3	Piscicolidae	1
	<i>Holobomolochus prolixus</i>	Bomolochidae	21
	<i>Acanthochondria cyclopsetta</i>	Chondracanthidae	32
	<i>Taeniacanthodes haakeri</i>	Taeniacanthidae	2
	* <i>Lepeophtheirus bifurcatus</i>	Caligidae	1
	chalimus	Caligidae	54
	<i>Parabrachiella paralichthyos</i>	Lernaeopodidae	26
Pleuronectidae			
<i>Glyptocephalus zachirus</i>	* <i>Lepeophtheirus pravipes</i>	Caligidae	1
<i>Lepidopsetta bilineata</i>	* <i>Elthusa vulgaris</i>	Cymothoidae	2
<i>Lyopsetta exilis</i>	not infected	----	----
<i>Microstomus pacificus</i>	<i>Acanthochondria margolisi</i>	Chondracanthidae	7
	praniza	Gnathiidae	88
<i>Parophrys vetulus</i>	<i>Acanthochondria dojirii</i>	Chondracanthidae	69
	<i>Lepeophtheirus remiopsis</i>	Caligidae	11
	chalimus	Caligidae	6
	<i>Elthusa vulgaris</i>	Cymothoidae	5
	praniza	Gnathiidae	429
<i>Pleuronichthys coenosus</i>	<i>Holobomolochus prolixus</i>	Bomolochidae	1
<i>Pleuronichthys decurrens</i>	* <i>Holobomolochus prolixus</i>	Bomolochidae	14
	* <i>Acanthochondria fraseri</i>	Chondracanthidae	15
	* <i>Taenicanthodes haakeri</i>	Taeniacanthidae	7
	* chalimus	Caligidae	5
	* <i>Elthusa vulgaris</i>	Cymothoidae	1
	* praniza	Gnathiidae	3
<i>Pleuronichthys verticalis</i>	* <i>Austrobdella</i> sp. 2	Piscicolidae	22
	<i>Holobomolochus prolixus</i>	Bomolochidae	51
	<i>Acanthochondria fraseri</i>	Chondracanthidae	73
	<i>Taenicanthodes haakeri</i>	Taeniacanthidae	65
	* <i>Lepeophtheirus pravipes</i>	Caligidae	2
	chalimus	Caligidae	350
	* <i>Elthusa californica</i>	Cymothoidae	1

E3. (continued)

Host	Parasite		
	Species	Family	n
<i>P. verticalis</i> (continued)	* <i>Elthusa vulgaris</i>	Cymothoidae	10
	* aegathoid	Cymothoidae	1
	praniza	Gnathiidae	264
Cynoglossidae			
<i>Symphurus atricaudus</i>	not infected	-----	-----
			TOTAL = 14,620

* = new host record; n = total number of parasites found on a particular species of host

E4. Parasite-host list of organisms collected at depths of 22-198 m in the Southern California Bight, July through October 2003.

Parasite		Host		
Species	n	Species	Family	n
PLATYHELMINTHES				
Capsalidae				
<i>Entobdella hippoglossi</i>	79	<i>Paralichthys californicus</i>	Paralichthyidae	7
Diclidophoridae				
<i>Neoheterobothrium hippoglossini</i>	71	<i>Hippoglossina stomata</i>	Paralichthyidae	39
	34	* <i>Xystreureys liolepis</i>	Paralichthyidae	10
Microcotylidae				
<i>Microcotyle sebastis</i>	37	<i>Sebastes chlorostictus</i>	Scorpaenidae	10
	451	<i>Sebastes saxicola</i>	Scorpaenidae	80
	9	* <i>Sebastes semicinctus</i>	Scorpaenidae	4
ANNELIDA				
Piscicolidae				
<i>Austrobdella californiana</i>	24	<i>Hippoglossina stomata</i>	Paralichthyidae	19
<i>Austrobdella</i> sp. 1	50	* <i>Scorpaena guttata</i>	Scorpaenidae	26
<i>Austrobdella</i> sp. 2	22	* <i>Pleuronichthys verticalis</i>	Pleuronectidae	15
<i>Austrobdella</i> sp. 3	1	* <i>Xystreureys liolepis</i>	Paralichthyidae	1
ARTHROPODA				
Argulidae				
<i>Argulus</i> sp.	1	* <i>Citharichthys fragilis</i>	Paralichthyidae	1
	5	* <i>Citharichthys sordidus</i>	Paralichthyidae	5
Bomolochidae				
<i>Holobomolochus prolixus</i>	1	<i>Chitonotus pugetensis</i>	Cottidae	1
	6	<i>Citharichthys sordidus</i>	Paralichthyidae	6
	500	<i>Citharichthys stigmaeus</i>	Paralichthyidae	351
	7	<i>Citharichthys xanthostigma</i>	Paralichthyidae	7
	65	<i>Hippoglossina stomata</i>	Paralichthyidae	40
	73	<i>Paralichthys californicus</i>	Paralichthyidae	20
	21	<i>Xystreureys liolepis</i>	Paralichthyidae	16
	1	<i>Pleuronichthys coenosus</i>	Pleuronectidae	1
	14	* <i>Pleuronichthys decurrens</i>	Pleuronectidae	9
	51	<i>Pleuronichthys verticalis</i>	Pleuronectidae	45
<i>Holobomolochus spinulus</i>	3	<i>Scorpaena guttata</i>	Scorpaenidae	3
Chondracanthidae				
<i>Acanthochondria cyclopsetta</i>	32	<i>Xystreureys liolepis</i>	Paralichthyidae	15
<i>Acanthochondria dojirii</i>	69	<i>Parophrys vetulus</i>	Pleuronectidae	47
<i>Acanthochondria fraseri</i>	15	* <i>Pleuronichthys decurrens</i>	Pleuronectidae	13
	73	<i>Pleuronichthys verticalis</i>	Pleuronectidae	55
<i>Acanthochondria hoi</i>	54	<i>Paralichthys californicus</i>	Paralichthyidae	20
<i>Acanthochondria margolisi</i>	7	<i>Microstomus pacificus</i>	Pleuronectidae	6
<i>Auchenochondria lobosa</i>	4	<i>Paralichthys californicus</i>	Paralichthyidae	4
<i>Protochondria longicauda</i>	8	<i>Hippoglossina stomata</i>	Paralichthyidae	7
<i>Pseudodiocus scorpaenus</i>	83	<i>Scorpaena guttata</i>	Scorpaenidae	59

E4. (continued)

Parasite		Host		
Species	n	Species	Family	n
Taeniacanthidae				
<i>Taeniacanthodes haakeri</i>	1	<i>Citharichthys stigmaeus</i>	Paralichthyidae	1
	60	<i>Hippoglossina stomata</i>	Paralichthyidae	13
	1	<i>Paralichthys californicus</i>	Paralichthyidae	1
	2	<i>Xystreurys liolepis</i>	Paralichthyidae	2
	7	* <i>Pleuronichthys decurrens</i>	Pleuronectidae	3
	65	<i>Pleuronichthys verticalis</i>	Pleuronectidae	28
Caligidae				
<i>Caligus pectinatus</i>	1	* <i>Sebastes saxicola</i>	Scorpaenidae	1
	2	* <i>Citharichthys stigmaeus</i>	Paralichthyidae	2
	1	* <i>Hippoglossina stomata</i>	Paralichthyidae	1
	1	* <i>Paralichthys californicus</i>	Paralichthyidae	1
<i>Caligus</i> sp.	1	<i>Citharichthys stigmaeus</i>	Paralichthyidae	1
<i>Lepeophtheirus bifurcatus</i>	1	* <i>Xystreurys liolepis</i>	Paralichthyidae	1
<i>Lepeophtheirus prapipes</i>	1	* <i>Glyptocephalus zachirus</i>	Pleuronectidae	1
	2	* <i>Pleuronichthys verticalis</i>	Pleuronectidae	1
<i>Lepeophtheirus remiopsis</i>	5	* <i>Citharichthys sordidus</i>	Paralichthyidae	5
	1	* <i>Citharichthys stigmaeus</i>	Paralichthyidae	1
	4	* <i>Citharichthys xanthostigma</i>	Paralichthyidae	4
	2	<i>Hippoglossina stomata</i>	Paralichthyidae	2
	1	* <i>Paralichthys californicus</i>	Paralichthyidae	1
	11	<i>Parophrys vetulus</i>	Pleuronectidae	9
<i>Lepeophtheirus rotundipes</i>	790	<i>Scorpaena guttata</i>	Scorpaenidae	191
<i>Lepeophtheirus spatha</i>	11	<i>Paralichthys californicus</i>	Paralichthyidae	5
<i>Lepeophtheirus</i> sp. chalmus	1	<i>Hippoglossina stomata</i>	Paralichthyidae	1
	2	* <i>Sebastes saxicola</i>	Scorpaenidae	2
	12	* <i>Sebastes semicinctus</i>	Scorpaenidae	12
	1	* <i>Ophiodon elongatus</i>	Hexagrammida	1
	4	* <i>Zaniolepis latipinnis</i>	Hexagrammida	2
	3	* <i>Chitonotus pugetensis</i>	Cottidae	2
	67	* <i>Icelinus quadriseriatus</i>	Cottidae	63
	1	<i>Citharichthys sordidus</i>	Paralichthyidae	1
	15	<i>Citharichthys stigmaeus</i>	Paralichthyidae	12
	14	<i>Hippoglossina stomata</i>	Paralichthyidae	8
	2	<i>Paralichthys californicus</i>	Paralichthyidae	2
	54	<i>Xystreurys liolepis</i>	Paralichthyidae	16
	6	<i>Parophrys vetulus</i>	Pleuronectidae	6
	5	* <i>Pleuronichthys decurrens</i>	Pleuronectidae	2
	350	<i>Pleuronichthys verticalis</i>	Pleuronectidae	82
Lernaeopodidae				
<i>Clavella parva</i>	192	* <i>Sebastes saxicola</i>	Scorpaenidae	112
	14	* <i>Sebastes semicinctus</i>	Scorpaenidae	9
	48	<i>Citharichthys xanthostigma</i>	Paralichthyidae	39

E4. (continued)

Parasite		Host		
Species	n	Species	Family	n
<i>Naobranchia occidentalis</i>	62	<i>Citharichthys sordidus</i>	Paralichthyidae	53
	258	<i>Citharichthys xanthostigma</i>	Paralichthyidae	132
<i>Naobranchia scorpaenae</i>	9173	<i>Scorpaena guttata</i>	Scorpaenidae	169
<i>Parabrachiella paralichthyos</i>	26	<i>Xystreureys liolepis</i>	Paralichthyidae	14
<i>Parabrachiella robusta</i>	95	<i>Sebastes miniatus</i>	Scorpaenidae	20
<i>Parabrachiella</i> sp. 1	5	* <i>Citharichthys sordidus</i>	Paralichthyidae	5
	54	* <i>Citharichthys xanthostigma</i>	Paralichthyidae	47
Pennellidae				
<i>Phrixecephalus cincinnatus</i>	272	<i>Citharichthys sordidus</i>	Paralichthyidae	242
	1	* <i>Citharichthys xanthostigma</i>	Paralichthyidae	1
Cymothoidae				
<i>Elthusa californica</i>	1	* <i>Scorpaena guttata</i>	Scorpaenidae	1
	1	* <i>Chitonotus pugetensis</i>	Cottidae	1
	1	* <i>Citharichthys sordidus</i>	Paralichthyidae	1
	3	* <i>Citharichthys stigmaeus</i>	Paralichthyidae	3
	1	* <i>Citharichthys xanthostigma</i>	Paralichthyidae	1
	1	* <i>Hippoglossina stomata</i>	Paralichthyidae	1
	1	* <i>Pleuronichthys verticalis</i>	Pleuronectidae	1
<i>Elthusa vulgaris</i>	2	<i>Scorpaena guttata</i>	Scorpaenidae	2
	6	<i>Ophiodon elongatus</i>	Hexagrammida	6
	32	<i>Citharichthys sordidus</i>	Paralichthyidae	32
	5	<i>Citharichthys stigmaeus</i>	Paralichthyidae	
	2	* <i>Citharichthys xanthostigma</i>	Paralichthyidae	2
	2	* <i>Lepidopsetta bilineata</i>	Pleuronectidae	1
	5	<i>Parophrys vetulus</i>	Pleuronectidae	5
	1	* <i>Pleuronichthys decurrens</i>	Pleuronectidae	1
	10	* <i>Pleuronichthys verticalis</i>	Pleuronectidae	10
aegathoid	5	* <i>Citharichthys sordidus</i>	Paralichthyidae	5
	1	* <i>Citharichthys stigmaeus</i>	Paralichthyidae	1
	1	* <i>Paralichthys californicus</i>	Paralichthyidae	1
	1	* <i>Pleuronichthys verticalis</i>	Pleuronectidae	1
Gnathiidae				
praniza	30	* <i>Scorpaena guttata</i>	Scorpaenidae	27
	1	* <i>Sebastes miniatus</i>	Scorpaenidae	1
	1	* <i>Sebastes saxicola</i>	Scorpaenidae	1
	3	* <i>Sebastes semicinctus</i>	Scorpaenidae	3
	5	* <i>Ophiodon elongatus</i>	Hexagrammida	3
	1	<i>Zaniolepis latipinnis</i>	Hexagrammida	1
	1	* <i>Icelinus quadriseriatus</i>	Cottidae	1
	30	<i>Citharichthys sordidus</i>	Paralichthyidae	30
	8	<i>Citharichthys stigmaeus</i>	Paralichthyidae	8
	65	<i>Citharichthys xanthostigma</i>	Paralichthyidae	59
	23	<i>Hippoglossina stomata</i>	Paralichthyidae	19
	7	* <i>Paralichthys californicus</i>	Paralichthyidae	6

E4. (continued)

Parasite		Host		
Species	n	Species	Family	n
praniza (continued)	88	<i>Microstomus pacificus</i>	Pleuronectidae	28
	429	<i>Parophrys vetulus</i>	Pleuronectidae	208
	3	* <i>Pleuronichthys decurrens</i>	Pleuronectidae	3
	264	<i>Pleuronichthys verticalis</i>	Pleuronectidae	124
TOTAL = 14,620		TOTAL = 2,870		

* = new host record; parasite n = total number of parasites found on a particular species of host; hos total number of hosts with a particular species of parasite

E5. Host-parasite prevalence of individual host and parasite species by Region collected at depths of 22-198 m in the Southern California Bight, July through October 2003.

Host	Parasite	PREVALENCE (%)				
		SCB*	NCI	NMS	CMS	SMS
SCORPAENIFORMES						
Scorpaenidae						
<i>Scorpaena guttata</i>	<i>Austrobdella</i> sp. 1	12.0	0.0	-----	15.7	3.2
	<i>Holobomolochus spinulus</i>	1.4	0.0	-----	2.0	0.0
	<i>Pseudodiocus scorpaenus</i>	27.3	100	-----	25.5	30.6
	<i>Lepeophtheirus rotundipes</i>	88.4	100	-----	88.9	87.1
	<i>Naobranchia scorpaenae</i>	78.2	100	-----	83.0	66.1
	<i>Elthusa californica</i>	0.5	0.0	-----	0.7	0.0
	<i>Elthusa vulgaris</i>	0.9	0.0	-----	1.3	0.0
	praniza	12.5	100	-----	15.0	4.8
<i>Sebastes caurinus</i>	not infected	0.0	-----	-----	0.0	-----
<i>Sebastes chlorostictus</i>	<i>Microcotyle sebastis</i>	45.5	-----	-----	45.5	-----
<i>Sebastes dallii</i>	not infected	0.0	-----	-----	0.0	-----
<i>Sebastes elongatus</i>	not infected	0.0	-----	-----	0.0	0.0
<i>Sebastes goodei</i>	not infected	0.0	-----	-----	0.0	-----
<i>Sebastes jordani</i>	not infected	0.0	-----	-----	-----	0.0
<i>Sebastes miniatus</i>	<i>Parabrachiella robusta</i>	76.9	-----	-----	80.0	0.0
	praniza	3.8	-----	-----	4.0	0.0
<i>Sebastes paucispinis</i>	not infected	0.0	-----	-----	0.0	-----
<i>Sebastes rubrivinctus</i>	not infected	0.0	-----	-----	-----	0.0
<i>Sebastes saxicola</i>	<i>Microcotyle sebastis</i>	14.7	0.0	-----	24.6	0.7
	<i>Caligus pectinatus</i>	0.2	0.0	-----	0.0	0.7
	chalimus	0.4	0.0	-----	0.3	0.7
	<i>Clavella parva</i>	20.5	0.0	-----	29.9	10.7
	praniza	0.2	0.0	-----	0.0	0.7
<i>Sebastes semicinctus</i>	<i>Microcotyle sebastis</i>	0.7	1.9	-----	0.9	0.0
	chalimus	2.1	0.0	-----	3.3	0.5
	<i>Clavella parva</i>	1.5	1.9	-----	0.6	3.2
	praniza	0.5	0.0	-----	0.9	0.0
Hexagrammidae						
<i>Ophiodon elongatus</i>	chalimus	1.1	-----	-----	1.1	0.0
	<i>Elthusa vulgaris</i>	6.8	-----	-----	6.9	0.0
	praniza	3.4	-----	-----	3.4	0.0
<i>Zaniolepis frenata</i>	not infected	0.0	-----	-----	0.0	0.0
<i>Zaniolepis latipinnis</i>	chalimus	0.1	0.0	0.0	0.2	0.0
	praniza	0.1	0.0	0.0	0.1	0.0
Cottidae						
<i>Chitonotus pugetensis</i>	<i>Holobomolochus prolixus</i>	0.2	0.0	-----	0.3	0.0
	chalimus	0.5	0.0	-----	0.6	0.0
	<i>Elthusa californica</i>	0.2	0.0	-----	0.3	0.0
<i>Icelinus quadriseriatus</i>	chalimus	3.9	-----	0.0	4.5	0.8
	praniza	0.1	-----	0.0	0.1	0.0
<i>Icelinus tenuis</i>	not infected	0.0	0.0	-----	0.0	0.0

E5. (continued)

Host	Parasite	PREVALENCE (%)					
		SCB*	NCI	NMS	CMS	SMS	
PLEURONECTIFORMES							
Paralichthyidae							
<i>Citharichthys fragilis</i>	<i>Argulus</i> sp.	9.1	-----	-----	11.1	0.0	
<i>Citharichthys sordidus</i>	<i>Argulus</i> sp.	0.1	0.0	0.0	0.1	0.0	
	<i>Holobomolochus prolixus</i>	0.1	0.0	0.0	0.1	0.0	
	<i>Lepeophtheirus remiopsis</i>	0.1	0.0	0.0	0.1	0.1	
	chalimus	< 0.1	0.0	0.0	< 0.1	0.0	
	<i>Naobranchia occidentalis</i>	0.9	2.4	2.8	0.9	0.1	
	<i>Parabrachiella</i> sp. 1	0.1	0.4	0.0	0.1	0.0	
	<i>Phrixecephalus cincinnatus</i>	4.0	9.7	8.3	3.0	4.5	
	<i>Elthusa californica</i>	< 0.1	0.2	0.0	0.0	0.0	
	<i>Elthusa vulgaris</i>	0.5	0.4	5.6	0.7	0.1	
	aegathoid	0.1	0.0	2.8	0.1	0.0	
	praniza	0.5	0.6	0.0	0.6	0.2	
	<i>Citharichthys stigmaeus</i>	<i>Holobomolochus prolixus</i>	29.6	16.4	6.7	42.2	27.6
		<i>Taeniacanthodes haakeri</i>	0.1	0.0	0.0	0.0	0.2
		<i>Caligus pectinatus</i>	0.2	0.0	0.0	0.0	0.4
		<i>Caligus</i> sp.	0.1	0.0	0.0	0.2	0.0
<i>Lepeophtheirus remiopsis</i>		0.1	0.0	0.6	0.0	0.0	
chalimus		1.0	0.0	0.0	1.4	1.1	
<i>Elthusa californica</i>		0.3	0.0	1.2	0.2	0.0	
<i>Elthusa vulgaris</i>		0.4	1.8	0.6	0.7	0.0	
aegathoid		0.1	0.0	0.6	0.0	0.0	
praniza		0.7	0.0	1.2	0.5	0.8	
<i>Citharichthys xanthostigma</i>	<i>Holobomolochus prolixus</i>	0.6	-----	-----	0.0	1.6	
	<i>Lepeophtheirus remiopsis</i>	0.4	-----	-----	0.5	0.2	
	<i>Clavella parva</i>	3.5	-----	-----	3.3	3.9	
	<i>Naobranchia occidentalis</i>	12.0	-----	-----	11.6	12.6	
	<i>Parabrachiella</i> sp. 1	4.3	-----	-----	4.2	4.4	
	<i>Phrixecephalus cincinnatus</i>	0.1	-----	-----	0.0	0.2	
	<i>Elthusa californica</i>	0.1	-----	-----	0.2	0.0	
	<i>Elthusa vulgaris</i>	0.2	-----	-----	0.3	0.0	
	praniza	5.4	-----	-----	6.9	3.0	
	<i>Hippoglossina stomata</i>	<i>Neoheterobothrium hippoglossini</i>	29.3	-----	-----	31.7	21.9
<i>Austrobdella californiana</i>		14.3	-----	-----	15.8	9.4	
<i>Holobomolochus prolixus</i>		30.1	-----	-----	28.7	34.4	
<i>Protochondria longicauda</i>		5.3	-----	-----	5.9	3.1	
<i>Taeniacanthodes haakeri</i>		9.8	-----	-----	7.9	15.6	
<i>Caligus pectinatus</i>		0.8	-----	-----	1.0	0.0	
<i>Lepeophtheirus remiopsis</i>		1.5	-----	-----	1.0	3.1	
<i>Lepeophtheirus</i> sp.		0.8	-----	-----	1.0	0.0	
chalimus		6.0	-----	-----	6.9	3.1	
<i>Elthusa californica</i>		0.8	-----	-----	1.0	0.0	
<i>Paralichthys californicus</i>	praniza	14.3	-----	-----	14.9	12.5	
	<i>Entobdella hippoglossi</i>	25.9	-----	-----	35.7	15.4	

E5. (continued)

Host	Parasite	PREVALENCE (%)					
		SCB*	NCI	NMS	CMS	SMS	
<i>P. californicus</i> (continued)	<i>Holobomolochus prolixus</i>	74.1	----	----	71.4	76.9	
	<i>Acanthochondria hoi</i>	74.1	----	----	78.6	69.2	
	<i>Auchenochondria lobosa</i>	14.8	----	----	7.1	23.1	
	<i>Taeniacanthodes haakeri</i>	3.7	----	----	0.0	7.7	
	<i>Caligus pectinatus</i>	3.7	----	----	0.0	7.7	
	<i>Lepeophtheirus remiopsis</i>	3.7	----	----	7.1	0.0	
	<i>Lepeophtheirus spatha</i>	18.5	----	----	7.1	30.8	
	chalimus	7.4	----	----	7.1	7.7	
	aegathoid	3.7	----	----	7.1	0.0	
	praniza	22.2	----	----	35.7	7.7	
	<i>Xystreureys liolepis</i>	<i>Neoheterobothrium hippoglossini</i>	38.5	----	0.0	40.9	50.0
		<i>Austrobdella</i> sp. 3	3.8	----	0.0	4.5	0.0
		<i>Holobomolochus prolixus</i>	61.5	----	50.0	59.1	100
		<i>Acanthochondria cyclopsetta</i>	57.7	----	0.0	63.6	50.0
<i>Taeniacanthodes haakeri</i>		7.7	----	0.0	4.5	50.0	
<i>Lepeophtheirus bifurcatus</i>		3.8	----	0.0	4.5	0.0	
chalimus		61.5	----	0.0	63.6	100	
<i>Parabrachiella paralichthyos</i>		53.8	----	50.0	50.0	100	
Pleuronectidae							
<i>Glyptocephalus zachirus</i>	<i>Lepeophtheirus pravipes</i>	4.3	4.5	----	----	0.0	
<i>Lepidopsetta bilineata</i>	<i>Elthusa vulgaris</i>	20.0	20.0	----	----	----	
<i>Lyopsetta exilis</i>	not infected	0.0	0.0	----	0.0	0.0	
<i>Microstomus pacificus</i>	<i>Acanthochondria margolisi</i>	1.1	0.0	0.0	1.2	1.4	
	praniza	4.9	1.2	4.8	7.4	3.3	
<i>Parophrys vetulus</i>	<i>Acanthochondria dojirii</i>	8.3	8.3	0.0	10.9	1.6	
	<i>Lepeophtheirus remiopsis</i>	1.6	0.0	5.3	2.0	0.0	
	chalimus	1.1	0.0	0.0	1.5	0.0	
	<i>Elthusa vulgaris</i>	0.9	0.0	5.3	0.8	0.8	
	praniza	36.9	70.8	42.1	43.2	9.7	
<i>Pleuronichthys coenosus</i>	<i>Holobomolochus prolixus</i>	33.3	----	----	33.3	----	
<i>Pleuronichthys decurrens</i>	<i>Holobomolochus prolixus</i>	16.1	14.3	12.5	40.0	0.0	
	<i>Acanthochondria fraseri</i>	23.2	31.0	0.0	0.0	0.0	
	<i>Taenicanthodes haakeri</i>	5.4	0.0	37.5	0.0	0.0	
	chalimus	3.6	2.4	0.0	20.0	0.0	
	<i>Elthusa vulgaris</i>	1.8	2.4	0.0	0.0	0.0	
	praniza	5.4	4.8	12.5	0.0	0.0	
	<i>Austrobdella</i> sp. 2	4.3	----	----	1.9	25.7	
<i>Pleuronichthys verticalis</i>	<i>Holobomolochus prolixus</i>	12.9	----	----	11.5	25.7	
	<i>Acanthochondria fraseri</i>	15.8	----	----	15.0	22.9	
	<i>Taenicanthodes haakeri</i>	8.0	----	----	7.0	17.1	
	<i>Lepeophtheirus pravipes</i>	0.3	----	----	0.3	0.0	
	chalimus	23.6	----	----	23.6	22.9	
	<i>Elthusa californica</i>	0.3	----	----	0.3	0.0	
	<i>Elthusa vulgaris</i>	2.9	----	----	3.2	0.0	
	aegathoid	0.3	----	----	0.3	0.0	
	praniza	35.6	----	----	34.5	45.7	
	Cynoglossidae						
<i>Symphurus atricaudus</i>	not infected	0.0	----	0.0	0.0	0.0	

*SCB = Southern California Bight; NCI = Northern Channel Islands (San Miguel, Santa Rosa, Santa Cruz, and Anacapa); NMS = Northern Mainland Shelf (Point Conception to Point Dume); CMS = Central Mainland Shelf (Point Dume to Dana Point); SMS = Southern Mainland Shelf (Dana Point to United States-Mexico border)

E6. Host-parasite mean intensity of individual host and parasite species by Region collected at depths of 22-198 m in the Southern California Bight, July through October 2003.

Host	Parasite	MEAN INTENSITY					
		SCB*	NCI	NMS	CMS	SMS	
SCORPAENIFORMES							
Scorpaenidae							
<i>Scorpaena guttata</i>	<i>Austrobdella</i> sp. 1	1.9	0.0	----	2.0	1.0	
	<i>Holobomolochus spinulus</i>	1.0	0.0	----	1.0	0.0	
	<i>Pseudodiocus scorpaenus</i>	1.4	1.0	----	1.4	1.4	
	<i>Lepeophtheirus rotundipes</i>	4.1	5.0	----	4.1	4.3	
	<i>Naobranchia scorpaenae</i>	54.3	26.0	----	67.5	13.9	
	<i>Elthusa californica</i>	1.0	0.0	----	1.0	0.0	
	<i>Elthusa vulgaris</i>	1.0	0.0	----	1.0	0.0	
	praniza	1.1	1.0	----	1.1	1.0	
	<i>Sebastes caurinus</i>	not infected	0.0	----	----	0.0	----
	<i>Sebastes chlorostictus</i>	<i>Microcotyle sebastis</i>	3.7	----	----	3.7	----
<i>Sebastes dallii</i>	not infected	0.0	----	----	0.0	----	
<i>Sebastes elongatus</i>	not infected	0.0	----	----	0.0	0.0	
<i>Sebastes goodei</i>	not infected	0.0	----	----	0.0	----	
<i>Sebastes jordani</i>	not infected	0.0	----	----	----	0.0	
<i>Sebastes miniatus</i>	<i>Parabrachiella robusta</i>	4.8	----	----	4.8	0.0	
	praniza	1.0	----	----	1.0	0.0	
<i>Sebastes paucispinis</i>	not infected	0.0	----	----	0.0	----	
<i>Sebastes rubrivinctus</i>	not infected	0.0	----	----	----	0.0	
<i>Sebastes saxicola</i>	<i>Microcotyle sebastis</i>	5.6	0.0	----	5.6	6.0	
	<i>Caligus pectinatus</i>	1.0	0.0	----	0.0	1.0	
	chalimus	1.0	0.0	----	1.0	1.0	
	<i>Clavella parva</i>	1.7	0.0	----	1.7	1.6	
	praniza	1.0	0.0	----	0.0	1.0	
	<i>Sebastes semicinctus</i>	<i>Microcotyle sebastis</i>	2.3	2.0	----	2.3	0.0
	chalimus	1.0	0.0	----	1.0	1.0	
	<i>Clavella parva</i>	1.6	1.0	----	1.5	1.7	
	praniza	1.0	0.0	----	1.0	0.0	
Hexagrammidae							
<i>Ophiodon elongatus</i>	chalimus	1.0	----	----	1.0	0.0	
	<i>Elthusa vulgaris</i>	1.0	----	----	1.0	0.0	
	praniza	1.7	----	----	1.7	0.0	
<i>Zaniolepis frenata</i>	not infected	0.0	----	----	0.0	0.0	
<i>Zaniolepis latipinnis</i>	chalimus	2.0	0.0	0.0	2.0	0.0	
	praniza	1.0	0.0	0.0	1.0	0.0	
Cottidae							
<i>Chitonotus pugetensis</i>	<i>Holobomolochus prolixus</i>	1.0	0.0	----	1.0	0.0	
	chalimus	1.5	0.0	----	1.5	0.0	
	<i>Elthusa californica</i>	1.0	0.0	----	1.0	0.0	
<i>Icelinus quadriseriatus</i>	chalimus	1.1	----	0.0	1.1	1.0	
	praniza	1.0	----	0.0	1.0	0.0	
<i>Icelinus tenuis</i>	not infected	0.0	0.0	----	0.0	0.0	

E6. (continued)

Host	Parasite	MEAN INTENSITY				
		SCB*	NCI	NMS	CMS	SMS
PLEURONECTIFORMES						
Paralichthyidae						
<i>Citharichthys fragilis</i>	<i>Argulus</i> sp.	1.0	----	----	1.0	0.0
<i>Citharichthys sordidus</i>	<i>Argulus</i> sp.	1.0	0.0	0.0	1.0	0.0
	<i>Holobomolochus prolixus</i>	1.0	0.0	0.0	1.0	0.0
	<i>Lepeophtheirus remiopsis</i>	1.0	0.0	0.0	1.0	1.0
	chalimus	1.0	0.0	0.0	1.0	0.0
	<i>Naobranchia occidentalis</i>	1.2	1.3	1.0	1.1	1.0
	<i>Parabrachiella</i> sp. 1	1.0	1.0	0.0	1.0	0.0
	<i>PhrEXOcephalus cincinnatus</i>	1.1	1.3	1.3	1.0	1.2
	<i>Elthusa californica</i>	1.0	1.0	0.0	0.0	0.0
	<i>Elthusa vulgaris</i>	1.0	1.0	1.0	1.0	1.0
	aegathoid	1.0	0.0	1.0	1.0	0.0
	praniza	1.0	1.0	0.0	1.0	1.0
<i>Citharichthys stigmaeus</i>	<i>Holobomolochus prolixus</i>	1.4	1.1	1.2	1.5	1.4
	<i>Taeniacanthodes haakeri</i>	1.0	0.0	0.0	0.0	1.0
	<i>Caligus pectinatus</i>	1.0	0.0	0.0	0.0	1.0
	<i>Caligus</i> sp.	1.0	0.0	0.0	1.0	0.0
	<i>Lepeophtheirus remiopsis</i>	1.0	0.0	1.0	0.0	0.0
	chalimus	1.3	0.0	0.0	1.5	1.0
	<i>Elthusa californica</i>	1.0	0.0	1.0	1.0	0.0
	<i>Elthusa vulgaris</i>	1.0	1.0	1.0	1.0	0.0
	aegathoid	1.0	0.0	1.0	0.0	0.0
	praniza	1.0	0.0	1.0	1.0	1.0
<i>Citharichthys xanthostigma</i>	<i>Holobomolochus prolixus</i>	1.0	----	----	0.0	1.0
	<i>Lepeophtheirus remiopsis</i>	1.0	----	----	1.0	1.0
	<i>Clavella parva</i>	1.2	----	----	1.1	1.4
	<i>Naobranchia occidentalis</i>	2.0	----	----	1.9	2.1
	<i>Parabrachiella</i> sp. 1	1.1	----	----	1.2	1.1
	<i>PhrEXOcephalus cincinnatus</i>	1.0	----	----	0.0	1.0
	<i>Elthusa californica</i>	1.0	----	----	1.0	0.0
	<i>Elthusa vulgaris</i>	1.0	----	----	1.0	0.0
	praniza	1.1	----	----	1.1	1.0
<i>Hippoglossina stomata</i>	<i>Neoheterobothrium hippoglossini</i>	1.8	----	----	1.5	3.3
	<i>Austrobdella californiana</i>	1.3	----	----	1.3	1.0
	<i>Holobomolochus prolixus</i>	1.6	----	----	1.6	1.7
	<i>Protochondria longicauda</i>	1.1	----	----	1.2	1.0
	<i>Taeniacanthodes haakeri</i>	4.6	----	----	2.9	7.4
	<i>Caligus pectinatus</i>	1.0	----	----	1.0	0.0
	<i>Lepeophtheirus remiopsis</i>	1.0	----	----	1.0	1.0
	<i>Lepeophtheirus</i> sp.	1.0	----	----	1.0	0.0
	chalimus	1.8	----	----	1.4	4.0
	<i>Elthusa californica</i>	1.0	----	----	1.0	0.0
	praniza	1.2	----	----	1.0	2.0
<i>Paralichthys californicus</i>	<i>Entobdella hippoglossi</i>	11.3	----	----	13.2	6.5

E6. (continued)

Host	Parasite	MEAN INTENSITY					
		SCB*	NCI	NMS	CMS	SMS	
<i>P. californicus</i> (continued)	<i>Holobomolochus prolixus</i>	3.7	----	----	3.0	4.3	
	<i>Acanthochondria hoi</i>	2.7	----	----	3.0	2.3	
	<i>Auchenochondria lobosa</i>	1.0	----	----	1.0	1.0	
	<i>Taeniacanthodes haakeri</i>	1.0	----	----	0.0	1.0	
	<i>Caligus pectinatus</i>	1.0	----	----	0.0	1.0	
	<i>Lepeophtheirus remiopsis</i>	1.0	----	----	1.0	0.0	
	<i>Lepeophtheirus spatha</i>	2.2	----	----	3.0	2.0	
	chalimus	1.0	----	----	1.0	1.0	
	aegathoid	1.0	----	----	1.0	0.0	
	praniza	1.2	----	----	1.2	1.0	
	<i>Xystreurus liolepis</i>	<i>Neoheterobothrium hippoglossini</i>	3.4	----	0.0	3.7	1.0
		<i>Austrobdella</i> sp. 3	1.0	----	0.0	1.0	0.0
		<i>Holobomolochus prolixus</i>	1.3	----	2.0	1.2	1.5
<i>Acanthochondria cyclopsetta</i>		2.1	----	0.0	2.1	2.0	
<i>Taeniacanthodes haakeri</i>		1.0	----	0.0	1.0	1.0	
<i>Lepeophtheirus bifurcatus</i>		1.0	----	0.0	1.0	0.0	
chalimus		3.4	----	0.0	2.8	7.5	
<i>Parabrachiella paralichthyos</i>	1.9	----	2.0	1.7	2.5		
Pleuronectidae							
<i>Glyptocephalus zachirus</i>	<i>Lepeophtheirus pravipes</i>	1.0	1.0	----	----	0.0	
<i>Lepidopsetta bilineata</i>	<i>Elthusa vulgaris</i>	2.0	2.0	----	----	----	
<i>Lyopsetta exilis</i>	not infected	0.0	0.0	----	0.0	0.0	
<i>Microstomus pacificus</i>	<i>Acanthochondria margolisi</i>	1.2	0.0	0.0	1.3	1.0	
	praniza	3.1	1.0	1.0	3.7	2.1	
	<i>Acanthochondria dojirii</i>	1.5	1.0	0.0	1.5	1.0	
<i>Parophrys vetulus</i>	<i>Lepeophtheirus remiopsis</i>	1.2	0.0	1.0	1.3	0.0	
	chalimus	1.0	0.0	0.0	1.0	0.0	
	<i>Elthusa vulgaris</i>	1.0	0.0	1.0	1.0	1.0	
	praniza	2.1	2.5	1.1	2.1	1.5	
	<i>Holobomolochus prolixus</i>	1.0	----	----	1.0	----	
<i>Pleuronichthys coenosus</i>	<i>Holobomolochus prolixus</i>	1.6	1.2	2.0	2.5	0.0	
<i>Pleuronichthys decurrens</i>	<i>Acanthochondria fraseri</i>	1.2	1.2	0.0	0.0	0.0	
	<i>Taenicanthodes haakeri</i>	2.3	0.0	2.3	0.0	0.0	
	chalimus	2.5	1.0	0.0	4.0	0.0	
	<i>Elthusa vulgaris</i>	1.0	1.0	0.0	0.0	0.0	
	praniza	1.0	1.0	1.0	0.0	0.0	
	<i>Pleuronichthys verticalis</i>	<i>Austrobdella</i> sp. 2	1.5	----	----	1.3	1.6
		<i>Holobomolochus prolixus</i>	1.1	----	----	1.2	1.0
<i>Acanthochondria fraseri</i>		1.3	----	----	1.3	1.4	
<i>Taenicanthodes haakeri</i>		2.3	----	----	2.0	3.7	
<i>Lepeophtheirus pravipes</i>		2.0	----	----	2.0	0.0	
chalimus		4.3	----	----	4.6	1.6	
<i>Elthusa californica</i>		1.0	----	----	1.0	0.0	
<i>Elthusa vulgaris</i>		1.0	----	----	1.0	0.0	
<i>P. verticalis</i> (continued)	aegathoid	1.0	----	----	1.0	0.0	
	praniza	2.1	----	----	2.0	2.9	
Cynoglossidae							
<i>Symphurus atricaudus</i>	not infected	0.0	----	0.0	0.0	0.0	

*SCB = Southern California Bight; NCI = Northern Channel Islands (San Miguel, Santa Rosa, Santa Cruz and Anacapa); NMS = Northern Mainland Shelf (Point Conception to Point Dume); CMS = Central Mainland Shelf (Point Dume to Dana Point); SMS = Southern Mainland Shelf (Dana Point to United States-Mexico border)

E7. Host-parasite prevalence of individual host and parasite species by Outfall Type collected at depths of 22-198 m in the Southern California Bight, July through October 2003.

Host	Parasite	PREVALENCE (%)				
		SCB*	Lrg	Sm	Non	
SCORPAENIFORMES						
Scorpaenidae						
<i>Scorpaena guttata</i>	<i>Austrobdella</i> sp. 1	12.0	15.9	4.3	8.3	
	<i>Holobomolochus spinulus</i>	1.4	0.8	0.0	5.6	
	<i>Pseudodiocus scorpaenus</i>	27.3	25.8	34.0	22.2	
	<i>Lepeophtheirus rotundipes</i>	88.4	87.1	91.5	88.9	
	<i>Naobranchia scorpaenae</i>	78.2	82.6	61.7	83.3	
	<i>Elthusa californica</i>	0.5	0.0	0.0	2.8	
	<i>Elthusa vulgaris</i>	0.9	0.8	0.0	2.8	
	praniza	12.5	15.2	6.4	8.3	
	<i>Sebastes caurinus</i>	not infected	0.0	-----	-----	0.0
	<i>Sebastes chlorostictus</i>	<i>Microcotyle sebastis</i>	45.5	-----	-----	45.5
	<i>Sebastes dallii</i>	not infected	0.0	0.0	-----	-----
	<i>Sebastes elongatus</i>	not infected	0.0	0.0	-----	0.0
	<i>Sebastes goodei</i>	not infected	0.0	-----	-----	0.0
	<i>Sebastes jordani</i>	not infected	0.0	0.0	-----	-----
<i>Sebastes miniatus</i>	<i>Parabrachiella robusta</i>	76.9	33.3	0.0	94.7	
	praniza	3.8	0.0	0.0	5.3	
<i>Sebastes paucispinis</i>	not infected	0.0	0.0	-----	-----	
<i>Sebastes rubrivinctus</i>	not infected	0.0	0.0	-----	-----	
<i>Sebastes saxicola</i>	<i>Microcotyle sebastis</i>	14.7	19.8	0.0	19.6	
	<i>Caligus pectinatus</i>	0.2	0.0	0.0	0.6	
	chalimus	0.4	0.0	0.0	1.1	
	<i>Clavella parva</i>	20.5	26.4	18.5	22.3	
	praniza	0.2	0.0	1.5	0.0	
	<i>Sebastes semicinctus</i>	<i>Microcotyle sebastis</i>	0.7	0.0	0.0	1.3
chalimus		2.1	3.0	0.0	2.2	
<i>Clavella parva</i>		1.5	2.2	4.3	0.0	
praniza		0.5	1.3	0.0	0.0	
Hexagrammidae						
<i>Ophiodon elongatus</i>	chalimus	1.1	2.3	-----	0.0	
	<i>Elthusa vulgaris</i>	6.8	4.7	-----	8.9	
	praniza	3.4	4.7	-----	2.2	
<i>Zaniolepis frenata</i>	not infected	0.0	0.0	0.0	0.0	
<i>Zaniolepis latipinnis</i>	chalimus	0.1	0.1	0.0	0.2	
	praniza	0.1	0.0	0.0	0.2	
Cottidae						
<i>Chitonotus pugetensis</i>	<i>Holobomolochus prolixus</i>	0.2	0.6	0.0	0.0	
	chalimus	0.5	1.2	0.0	0.0	
	<i>Elthusa californica</i>	0.2	0.0	0.0	0.4	
<i>Icelinus quadriseriatus</i>	chalimus	3.9	4.4	0.6	4.1	
	praniza	0.1	0.1	0.0	0.0	
<i>Icelinus tenuis</i>	not infected	0.0	0.0	-----	0.0	

E7. (continued)

Host	Parasite	PREVALENCE (%)				
		SCB*	Lrg	Sm	Non	
PLEURONECTIFORMES						
Paralichthyidae						
<i>Citharichthys fragilis</i>	<i>Argulus</i> sp.	9.1	10.0	-----	0.0	
<i>Citharichthys sordidus</i>	<i>Argulus</i> sp.	0.1	0.1	0.0	0.1	
	<i>Holobomolochus prolixus</i>	0.1	0.1	0.0	0.2	
	<i>Lepeophtheirus remiopsis</i>	0.1	0.0	0.0	0.3	
	chalimus	< 0.1	0.0	0.0	0.1	
	<i>Naobranchia occidentalis</i>	0.9	0.7	0.3	1.0	
	<i>Parabrachiella</i> sp. 1	0.1	0.0	0.0	0.2	
	<i>PhrEXOcephalus cincinnatus</i>	4.0	3.4	1.9	4.3	
	<i>Elthusa californica</i>	< 0.1	0.0	0.0	0.0	
	<i>Elthusa vulgaris</i>	0.5	0.4	0.3	0.8	
	aegathoid	0.1	0.0	0.1	0.2	
	praniza	0.5	0.4	0.4	0.7	
	<i>Citharichthys stigmaeus</i>	<i>Holobomolochus prolixus</i>	29.6	44.7	26.3	26.6
		<i>Taeniacanthodes haakeri</i>	0.1	0.0	0.0	0.3
<i>Caligus pectinatus</i>		0.2	0.0	0.2	0.3	
<i>Caligus</i> sp.		0.1	0.0	0.0	0.3	
<i>Lepeophtheirus remiopsis</i>		0.1	0.0	0.2	0.0	
chalimus		1.0	0.0	1.0	1.8	
<i>Elthusa californica</i>		0.3	0.0	0.4	0.3	
<i>Elthusa vulgaris</i>		0.4	1.3	0.2	0.0	
aegathoid		0.1	0.0	0.2	0.0	
praniza		0.7	0.8	1.2	0.0	
<i>Citharichthys xanthostigma</i>		<i>Holobomolochus prolixus</i>	0.6	0.0	1.0	0.6
		<i>Lepeophtheirus remiopsis</i>	0.4	0.0	0.2	0.9
		<i>Clavella parva</i>	3.5	3.9	3.2	3.8
	<i>Naobranchia occidentalis</i>	12.0	8.2	11.0	16.3	
	<i>Parabrachiella</i> sp. 1	4.3	2.0	3.6	7.1	
	<i>PhrEXOcephalus cincinnatus</i>	0.1	0.0	0.2	0.0	
	<i>Elthusa californica</i>	0.1	0.0	0.0	0.3	
	<i>Elthusa vulgaris</i>	0.2	0.0	0.0	0.6	
	praniza	5.4	8.2	3.4	6.2	
	<i>Hippoglossina stomata</i>	<i>Neoheterobothrium hippoglossini</i>	29.3	29.0	33.3	27.5
<i>Austrobdella californiana</i>		14.3	17.4	20.8	5.0	
<i>Holobomolochus prolixus</i>		30.1	34.8	41.7	15.0	
<i>Protochondria longicauda</i>		5.3	7.2	0.0	5.0	
<i>Taeniacanthodes haakeri</i>		9.8	5.8	20.8	10.0	
<i>Caligus pectinatus</i>		0.8	1.4	0.0	0.0	
<i>Lepeophtheirus remiopsis</i>		1.5	0.0	4.2	2.5	
<i>Lepeophtheirus</i> sp.		0.8	0.0	0.0	2.5	
chalimus		6.0	7.2	4.2	5.0	
<i>Elthusa californica</i>		0.8	1.4	0.0	0.0	
praniza		14.3	18.8	16.7	5.0	
<i>Paralichthys californicus</i>	<i>Entobdella hippoglossi</i>	25.9	40.0	33.3	0.0	

E7. (continued)

Host	Parasite	PREVALENCE (%)				
		SCB*	Lrg	Sm	Non	
<i>P. californicus</i> (continued)	<i>Holobomolochus prolixus</i>	74.1	60.0	88.9	75.0	
	<i>Acanthochondria hoi</i>	74.1	70.0	66.7	87.5	
	<i>Auchenochondria lobosa</i>	14.8	10.0	22.2	12.5	
	<i>Taeniacanthodes haakeri</i>	3.7	0.0	11.1	0.0	
	<i>Caligus pectinatus</i>	3.7	0.0	0.0	12.5	
	<i>Lepeophtheirus remiopsis</i>	3.7	10.0	0.0	0.0	
	<i>Lepeophtheirus spatha</i>	18.5	10.0	22.2	25.0	
	chalimus	7.4	10.0	0.0	12.5	
	aegathoid	3.7	10.0	0.0	0.0	
	praniza	22.2	40.0	0.0	25.0	
	<i>Xystreureys liolepis</i>	<i>Neoheterobothrium hippoglossini</i>	38.5	14.3	0.0	56.3
		<i>Austrobdella</i> sp. 3	3.8	0.0	0.0	6.3
		<i>Holobomolochus prolixus</i>	61.5	42.9	66.7	68.8
		<i>Acanthochondria cyclopsetta</i>	57.7	28.6	0.0	81.3
<i>Taeniacanthodes haakeri</i>		7.7	0.0	33.3	6.3	
<i>Lepeophtheirus bifurcatus</i>		3.8	0.0	0.0	6.3	
chalimus		61.5	85.7	33.3	56.3	
<i>Parabrachiella paralichthyos</i>		53.8	42.9	66.7	56.3	
Pleuronectidae						
<i>Glyptocephalus zachirus</i>	<i>Lepeophtheirus pravipes</i>	4.3	0.0	-----	-----	
<i>Lepidopsetta bilineata</i>	<i>Elthusa vulgaris</i>	20.0	-----	-----	-----	
<i>Lyopsetta exilis</i>	not infected	0.0	0.0	-----	0.0	
<i>Microstomus pacificus</i>	<i>Acanthochondria margolisi</i>	1.1	1.3	0.0	1.9	
	praniza	4.9	5.9	6.1	3.9	
<i>Parophrys vetulus</i>	<i>Acanthochondria dojirii</i>	8.3	6.9	0.0	11.3	
	<i>Lepeophtheirus remiopsis</i>	1.6	1.6	4.8	1.4	
	chalimus	1.1	0.3	0.0	2.3	
	<i>Elthusa vulgaris</i>	0.9	0.3	4.8	1.4	
	praniza	36.9	33.4	42.9	37.6	
<i>Pleuronichthys coenosus</i>	<i>Holobomolochus prolixus</i>	33.3	33.3	-----	-----	
<i>Pleuronichthys decurrens</i>	<i>Holobomolochus prolixus</i>	16.1	25.0	12.5	50.0	
	<i>Acanthochondria fraseri</i>	23.2	0.0	0.0	0.0	
	<i>Taeniacanthodes haakeri</i>	5.4	0.0	37.5	0.0	
	chalimus	3.6	25.0	0.0	0.0	
	<i>Elthusa vulgaris</i>	1.8	0.0	0.0	0.0	
	praniza	5.4	0.0	12.5	0.0	
	<i>Austrobdella</i> sp. 2	4.3	2.3	32.1	1.0	
<i>Pleuronichthys verticalis</i>	<i>Holobomolochus prolixus</i>	12.9	13.8	32.1	5.8	
	<i>Acanthochondria fraseri</i>	15.8	16.6	17.9	13.6	
	<i>Taeniacanthodes haakeri</i>	8.0	8.3	21.4	3.9	
	<i>Lepeophtheirus pravipes</i>	0.3	0.5	0.0	0.0	
	chalimus	23.6	27.2	10.7	19.4	
	<i>Elthusa californica</i>	0.3	0.5	0.0	0.0	
	<i>Elthusa vulgaris</i>	2.9	4.1	0.0	1.0	
	aegathoid	0.3	0.5	0.0	0.0	
	praniza	35.6	38.2	53.6	25.2	
	Cynoglossidae					
<i>Symphurus atricaudus</i>	not infected	0.0	0.0	0.0	0.0	

*SCB = Southern California Bight; Lrg (Large-Outfall) = City of Los Angeles Bureau of Sanitation-Hyperion, Los Angeles County Sanitation District, Orange County Sanitation District, and City of San Diego Metropolitan Wastewater Department-Point Loma; SM (Small-Outfall) = Goleta, South Orange County, Oceanside, Encina, and San Elijo; Non (Non-Outfall) = SCB mainland shelf only

E8. Host-parasite mean intensity of individual host and parasite species by Outfall Type collected at depths of 22-198 m in the Southern California Bight, July-October 2003.

Host	Parasite	MEAN INTENSITY				
		SCB*	Lrg	Sm	Non	
SCORPAENIFORMES						
Scorpaenidae						
<i>Scorpaena guttata</i>	<i>Austrobdella</i> sp. 1	1.9	2.0	1.0	1.7	
	<i>Holobomolochus spinulus</i>	1.0	1.0	0.0	1.0	
	<i>Pseudodiocus scorpaenus</i>	1.4	1.5	1.4	1.3	
	<i>Lepeophtheirus rotundipes</i>	4.1	4.0	4.6	3.9	
	<i>Naobranchia scorpaenae</i>	54.3	64.2	19.2	53.2	
	<i>Elthusa californica</i>	1.0	0.0	0.0	1.0	
	<i>Elthusa vulgaris</i>	1.0	1.0	0.0	1.0	
	praniza	1.1	1.1	1.0	1.3	
	not infected	0.0	----	----	0.0	
	<i>Sebastes caurinus</i>	<i>Microcotyle sebastis</i>	3.7	----	----	3.7
<i>Sebastes chlorostictus</i>	not infected	0.0	0.0	----	----	
<i>Sebastes dallii</i>	not infected	0.0	0.0	----	----	
<i>Sebastes elongatus</i>	not infected	0.0	0.0	----	0.0	
<i>Sebastes goodei</i>	not infected	0.0	----	----	0.0	
<i>Sebastes jordani</i>	not infected	0.0	0.0	----	----	
<i>Sebastes miniatus</i>	<i>Parabrachiella robusta</i>	4.8	1.0	0.0	5.2	
	praniza	1.0	0.0	0.0	1.0	
<i>Sebastes paucispinis</i>	not infected	0.0	0.0	----	----	
<i>Sebastes rubrivinctus</i>	not infected	0.0	0.0	----	----	
<i>Sebastes saxicola</i>	<i>Microcotyle sebastis</i>	5.6	5.3	0.0	6.1	
	<i>Caligus pectinatus</i>	1.0	0.0	0.0	1.0	
	chalimus	1.0	0.0	0.0	1.0	
	<i>Clavella parva</i>	1.7	1.9	1.5	1.5	
	praniza	1.0	0.0	1.0	0.0	
	<i>Sebastes semicinctus</i>	<i>Microcotyle sebastis</i>	2.3	0.0	0.0	2.3
	chalimus	1.0	1.0	0.0	1.0	
<i>Clavella parva</i>	1.6	1.4	2.0	0.0		
praniza	1.0	1.0	0.0	0.0		
Hexagrammidae						
<i>Ophiodon elongatus</i>	chalimus	1.0	1.0	----	0.0	
	<i>Elthusa vulgaris</i>	1.0	1.0	----	1.0	
	praniza	1.7	2.0	----	1.0	
<i>Zaniolepis frenata</i>	not infected	0.0	0.0	0.0	0.0	
<i>Zaniolepis latipinnis</i>	chalimus	2.0	1.0	0.0	3.0	
	praniza	1.0	0.0	0.0	1.0	
Cottidae						
<i>Chitonotus pugetensis</i>	<i>Holobomolochus prolixus</i>	1.0	1.0	0.0	0.0	
	chalimus	1.5	1.5	0.0	0.0	
	<i>Elthusa californica</i>	1.0	0.0	0.0	1.0	
<i>Icelinus quadriseriatus</i>	chalimus	1.1	1.1	2.0	1.0	
	praniza	1.0	1.0	0.0	0.0	
<i>Icelinus tenuis</i>	not infected	0.0	0.0	----	0.0	

E8. (continued)

Host	Parasite	MEAN INTENSITY				
		SCB*	Lrg	Sm	Non	
PLEURONECTIFORMES						
Paralichthyidae						
<i>Citharichthys fragilis</i>	<i>Argulus</i> sp.	1.0	1.0	----	0.0	
<i>Citharichthys sordidus</i>	<i>Argulus</i> sp.	1.0	1.0	0.0	1.0	
	<i>Holobomolochus prolixus</i>	1.0	1.0	0.0	1.0	
	<i>Lepeophtheirus remiopsis</i>	1.0	0.0	0.0	1.0	
	chalimus	1.0	0.0	0.0	1.0	
	<i>Naobranchia occidentalis</i>	1.2	1.1	1.0	1.2	
	<i>Parabrachiella</i> sp. 1	1.0	0.0	0.0	1.0	
	<i>Phrixocephalus cincinnatus</i>	1.1	1.1	1.2	1.0	
	<i>Elthusa californica</i>	1.0	0.0	0.0	0.0	
	<i>Elthusa vulgaris</i>	1.0	1.0	1.0	1.0	
	aegathoid	1.0	0.0	1.0	1.0	
	praniza	1.0	1.0	1.0	1.0	
	<i>Citharichthys stigmaeus</i>	<i>Holobomolochus prolixus</i>	1.4	1.5	1.5	1.4
		<i>Taeniacanthodes haakeri</i>	1.0	0.0	0.0	1.0
		<i>Caligus pectinatus</i>	1.0	0.0	1.0	1.0
<i>Caligus</i> sp.		1.0	0.0	0.0	1.0	
<i>Lepeophtheirus remiopsis</i>		1.0	0.0	1.0	0.0	
chalimus		1.3	0.0	1.0	1.4	
<i>Elthusa californica</i>		1.0	0.0	1.0	1.0	
<i>Elthusa vulgaris</i>		1.0	1.0	1.0	0.0	
aegathoid		1.0	0.0	1.0	0.0	
praniza		1.0	1.0	1.0	0.0	
<i>Citharichthys xanthostigma</i>	<i>Holobomolochus prolixus</i>	1.0	0.0	1.0	1.0	
	<i>Lepeophtheirus remiopsis</i>	1.0	0.0	1.0	1.0	
	<i>Clavella parva</i>	1.2	1.2	1.3	1.2	
	<i>Naobranchia occidentalis</i>	2.0	1.9	1.9	2.0	
	<i>Parabrachiella</i> sp. 1	1.1	1.2	1.1	1.2	
	<i>Phrixocephalus cincinnatus</i>	1.0	0.0	1.0	0.0	
	<i>Elthusa californica</i>	1.0	0.0	0.0	1.0	
	<i>Elthusa vulgaris</i>	1.0	0.0	0.0	1.0	
	praniza	1.1	1.2	1.0	1.1	
	<i>Hippoglossina stomata</i>	<i>Neoheterobothrium hippoglossini</i>	1.8	1.5	3.3	1.4
		<i>Austrobdella californiana</i>	1.3	1.4	1.0	1.0
<i>Holobomolochus prolixus</i>		1.6	1.8	1.5	1.3	
<i>Protochondria longicauda</i>		1.1	1.2	0.0	1.0	
<i>Taeniacanthodes haakeri</i>		4.6	1.5	7.4	4.3	
<i>Caligus pectinatus</i>		1.0	1.0	0.0	0.0	
<i>Lepeophtheirus remiopsis</i>		1.0	0.0	1.0	1.0	
<i>Lepeophtheirus</i> sp.		1.0	0.0	0.0	1.0	
chalimus		1.8	1.2	4.0	2.0	
<i>Elthusa californica</i>		1.0	1.0	0.0	0.0	
praniza	1.2	1.0	2.0	1.0		

E8. (continued)

Host	Parasite	MEAN INTENSITY				
		SCB*	Lrg	Sm	Non	
<i>Paralichthys californicus</i>	<i>Entobdella hippoglossi</i>	11.3	6.5	17.7	0.0	
	<i>Holobomolochus prolixus</i>	3.7	1.5	6.3	2.3	
	<i>Acanthochondria hoi</i>	2.7	3.0	2.7	2.4	
	<i>Auchenochondria lobosa</i>	1.0	1.0	1.0	1.0	
	<i>Taeniacanthodes haakeri</i>	1.0	0.0	1.0	0.0	
	<i>Caligus pectinatus</i>	1.0	0.0	0.0	1.0	
	<i>Lepeophtheirus remiopsis</i>	1.0	1.0	0.0	0.0	
	<i>Lepeophtheirus spatha</i>	2.2	3.0	2.0	2.0	
	chalimus	1.0	1.0	0.0	1.0	
	aegathoid	1.0	1.0	0.0	0.0	
	praniza	1.2	1.3	0.0	1.0	
	<i>Xystreureys liolepis</i>	<i>Neoheterobothrium hippoglossini</i>	3.4	3.0	0.0	3.4
		<i>Austrobdella</i> sp. 3	1.0	0.0	0.0	1.0
		<i>Holobomolochus prolixus</i>	1.3	1.0	1.5	1.4
<i>Acanthochondria cyclopsetta</i>		2.1	1.0	0.0	2.3	
<i>Taeniacanthodes haakeri</i>		1.0	0.0	1.0	1.0	
<i>Lepeophtheirus bifurcatus</i>		1.0	0.0	0.0	1.0	
chalimus		3.4	2.5	10.0	3.2	
<i>Parabrachiella paralichthyos</i>		1.9	2.0	2.5	1.7	
Pleuronectidae						
<i>Glyptocephalus zachirus</i>	<i>Lepeophtheirus pravipes</i>	1.0	0.0	----	----	
<i>Lepidopsetta bilineata</i>	<i>Elthusa vulgaris</i>	2.0	----	----	----	
<i>Lyopsetta exilis</i>	not infected	0.0	0.0	----	0.0	
<i>Microstomus pacificus</i>	<i>Acanthochondria margolisi</i>	1.2	1.3	0.0	1.0	
	praniza	3.1	3.8	1.2	3.3	
<i>Parophrys vetulus</i>	<i>Acanthochondria dojirii</i>	1.5	1.9	0.0	1.2	
	<i>Lepeophtheirus remiopsis</i>	1.2	1.0	1.0	1.7	
	chalimus	1.0	1.0	0.0	1.0	
	<i>Elthusa vulgaris</i>	1.0	1.0	1.0	1.0	
	praniza	2.1	2.1	1.1	2.0	
<i>Pleuronichthys coenosus</i>	<i>Holobomolochus prolixus</i>	1.0	1.0	----	----	
<i>Pleuronichthys decurrens</i>	<i>Holobomolochus prolixus</i>	1.6	1.0	2.0	4.0	
	<i>Acanthochondria fraseri</i>	1.2	0.0	0.0	0.0	
	<i>Taeniacanthodes haakeri</i>	2.3	0.0	2.3	0.0	
	chalimus	2.5	4.0	0.0	0.0	
	<i>Elthusa vulgaris</i>	1.0	0.0	0.0	0.0	
	praniza	1.0	0.0	1.0	0.0	
	<i>Pleuronichthys verticalis</i>	<i>Austrobdella</i> sp. 2	1.5	1.4	1.6	1.0
<i>Holobomolochus prolixus</i>		1.1	1.2	1.0	1.2	
<i>Acanthochondria fraseri</i>		1.3	1.4	1.6	1.1	
<i>Taeniacanthodes haakeri</i>		2.3	1.8	3.7	2.8	
<i>Lepeophtheirus pravipes</i>		2.0	2.0	0.0	0.0	
chalimus		4.3	5.0	2.0	2.4	
<i>Elthusa californica</i>		1.0	1.0	0.0	0.0	
<i>Elthusa vulgaris</i>		1.0	1.0	0.0	1.0	

E8. (continued)

Host	Parasite	MEAN INTENSITY			
		SCB*	Lrg	Sm	Non
	aegathoid	1.0	1.0	0.0	0.0
<i>P. verticalis</i> (continued)	praniza	2.1	2.0	3.2	1.8
Cynoglossidae					
<i>Symphurus atricaudus</i>	not infected	0.0	0.0	0.0	0.0

*SCB = Southern California Bight; Lrg (Large-Outfall) = City of Los Angeles Bureau of Sanitation-Hyperion, Los Angeles County Sanitation District, Orange County Sanitation District, and City of San Diego Metropolitan Wastewater Department-Point Loma; SM (Small-Outfall) = Goleta, South Orange County, Oceanside, Encina, and San Elijo; Non (Non-Outfall) = SCB mainland shelf only

E9. Host-parasite prevalence of individual host and parasite species by Large-Outfall collected at depths of 22-198 m in the Southern California Bight, July through October 2003.

Host	Parasite	PREVALENCE (%)					
		SCB*	HY	LA	OC	SD	
SCORPAENIFORMES							
Scorpaenidae							
<i>Scorpaena guttata</i>	<i>Austrobdella</i> sp. 1	12.0	5.7	0.0	47.5	0.0	
	<i>Holobomolochus spinulus</i>	1.4	0.0	0.0	2.5	0.0	
	<i>Pseudodiocus scorpaenus</i>	27.3	34.3	15.0	30.0	23.5	
	<i>Lepeophtheirus rotundipes</i>	88.4	85.7	92.5	87.5	76.5	
	<i>Naobranchia scorpaenae</i>	78.2	97.1	60.0	92.5	82.4	
	<i>Elthusa californica</i>	0.5	0.0	0.0	0.0	0.0	
	<i>Elthusa vulgaris</i>	0.9	2.9	0.0	0.0	0.0	
	praniza	12.5	11.4	17.5	22.5	0.0	
	not infected	0.0	-----	-----	-----	-----	
	<i>Sebastes caurinus</i>	not infected	0.0	-----	-----	-----	-----
	<i>Sebastes chlorostictus</i>	<i>Microcotyle sebastis</i>	45.5	-----	-----	-----	-----
	<i>Sebastes dallii</i>	not infected	0.0	0.0	-----	0.0	-----
	<i>Sebastes elongatus</i>	not infected	0.0	-----	-----	-----	0.0
<i>Sebastes goodei</i>	not infected	0.0	-----	-----	-----	-----	
<i>Sebastes jordani</i>	not infected	0.0	-----	-----	-----	0.0	
<i>Sebastes miniatus</i>	<i>Parabrachiella robusta</i>	76.9	33.3	-----	-----	-----	
	praniza	3.8	0.0	-----	-----	-----	
<i>Sebastes paucispinis</i>	not infected	0.0	0.0	-----	-----	-----	
<i>Sebastes rubrivinctus</i>	not infected	0.0	-----	-----	-----	0.0	
<i>Sebastes saxicola</i>	<i>Microcotyle sebastis</i>	14.7	0.0	40.4	0.0	2.0	
	<i>Caligus pectinatus</i>	0.2	0.0	0.0	0.0	0.0	
	chalimus	0.4	0.0	0.0	0.0	0.0	
	<i>Clavella parva</i>	20.5	20.0	43.1	0.0	0.0	
	praniza	0.2	0.0	0.0	0.0	0.0	
	<i>Microcotyle sebastis</i>	0.7	0.0	0.0	0.0	0.0	
	chalimus	2.1	0.0	0.0	4.8	1.1	
<i>Sebastes semicinctus</i>	<i>Clavella parva</i>	1.5	25.0	0.0	0.8	3.2	
	praniza	0.5	0.0	0.0	2.4	0.0	
	not infected	0.0	-----	-----	-----	-----	
Hexagrammidae							
<i>Ophiodon elongatus</i>	chalimus	1.1	0.0	-----	3.2	-----	
	<i>Elthusa vulgaris</i>	6.8	0.0	-----	6.5	-----	
	praniza	3.4	0.0	-----	6.5	-----	
<i>Zaniolepis frenata</i>	not infected	0.0	0.0	-----	0.0	0.0	
<i>Zaniolepis latipinnis</i>	chalimus	0.1	0.0	0.0	0.4	0.0	
	praniza	0.1	0.0	0.0	0.0	0.0	
Cottidae							
<i>Chitonotus pugetensis</i>	<i>Holobomolochus prolixus</i>	0.2	0.0	0.0	1.1	0.0	
	chalimus	0.5	0.0	0.0	2.1	0.0	
	<i>Elthusa californica</i>	0.2	0.0	0.0	0.0	0.0	
<i>Icelinus quadriseriatus</i>	chalimus	3.9	3.0	2.9	6.8	0.0	
	praniza	0.1	0.0	0.0	0.3	0.0	
<i>Icelinus tenuis</i>	not infected	0.0	0.0	-----	-----	-----	
PLEURONECTIFORMES							
Paralichthyidae							
<i>Citharichthys fragilis</i>	<i>Argulus</i> sp.	9.1	-----	-----	11.1	0.0	
	<i>Argulus</i> sp.	0.1	0.3	0.0	0.0	0.0	
<i>Citharichthys sordidus</i>	<i>Holobomolochus prolixus</i>	0.1	0.1	0.0	0.0	0.0	
	<i>Lepeophtheirus remiopsis</i>	0.1	0.0	0.0	0.0	0.0	

E9. (continued)

Host	Parasite	PREVALENCE (%)					
		SCB*	HY	LA	OC	SD	
<i>C. sordidus</i> (continued)	chalimus	< 0.1	0.0	0.0	0.0	0.0	
	<i>Naobranchia occidentalis</i>	0.9	0.8	1.9	0.4	0.0	
	<i>Parabrachiella</i> sp. 1	0.1	0.0	0.0	0.0	0.0	
	<i>Phrixocephalus cincinnatus</i>	4.0	1.8	4.3	2.9	6.8	
	<i>Elthusa californica</i>	< 0.1	0.0	0.0	0.0	0.0	
	<i>Elthusa vulgaris</i>	0.5	0.7	0.5	0.1	0.2	
	aegathoid	0.1	0.0	0.0	0.0	0.0	
	praniza	0.5	0.6	0.2	0.4	0.0	
	<i>Citharichthys stigmaeus</i>	<i>Holobomolochus prolixus</i>	29.6	40.0	48.5	32.6	-----
<i>Taeniacanthodes haakeri</i>		0.1	0.0	0.0	0.0	-----	
<i>Caligus pectinatus</i>		0.2	0.0	0.0	0.0	-----	
<i>Caligus</i> sp.		0.1	0.0	0.0	0.0	-----	
<i>Lepeophtheirus remiopsis</i>		0.1	0.0	0.0	0.0	-----	
chalimus		1.0	0.0	0.0	0.0	-----	
<i>Elthusa californica</i>		0.3	0.0	0.0	0.0	-----	
<i>Elthusa vulgaris</i>		0.4	0.0	1.8	0.0	-----	
aegathoid		0.1	0.0	0.0	0.0	-----	
praniza		0.7	4.0	0.6	0.0	-----	
<i>Citharichthys xanthostigma</i>		<i>Holobomolochus prolixus</i>	0.6	0.0	0.0	0.0	0.0
	<i>Lepeophtheirus remiopsis</i>	0.4	0.0	0.0	0.0	0.0	
	<i>Clavella parva</i>	3.5	3.8	3.7	4.1	0.0	
	<i>Naobranchia occidentalis</i>	12.0	5.7	3.7	9.4	20.0	
	<i>Parabrachiella</i> sp. 1	4.3	1.9	3.7	1.8	0.0	
	<i>Phrixocephalus cincinnatus</i>	0.1	0.0	0.0	0.0	0.0	
	<i>Elthusa californica</i>	0.1	0.0	0.0	0.0	0.0	
	<i>Elthusa vulgaris</i>	0.2	0.0	0.0	0.0	0.0	
	praniza	5.4	11.3	7.4	7.6	0.0	
	<i>Hippoglossina stomata</i>	<i>Neoheterobothrium hippoglossini</i>	29.3	26.7	30.0	37.5	10.0
		<i>Austrobdella californiana</i>	14.3	6.7	20.0	29.2	0.0
<i>Holobomolochus prolixus</i>		30.1	33.3	45.0	33.3	20.0	
<i>Protochondria longicauda</i>		5.3	6.7	10.0	4.2	10.0	
<i>Taeniacanthodes haakeri</i>		9.8	20.0	0.0	4.2	0.0	
<i>Caligus pectinatus</i>		0.8	0.0	0.0	4.2	0.0	
<i>Lepeophtheirus remiopsis</i>		1.5	0.0	0.0	0.0	0.0	
<i>Lepeophtheirus</i> sp.		0.8	0.0	0.0	0.0	0.0	
chalimus		6.0	6.7	15.0	4.2	0.0	
<i>Elthusa californica</i>		0.8	0.0	5.0	0.0	0.0	
praniza		14.3	33.3	5.0	25.0	10.0	
<i>Paralichthys californicus</i>	<i>Entobdella hippoglossi</i>	25.9	100	33.3	0.0	-----	
	<i>Holobomolochus prolixus</i>	74.1	100	66.7	0.0	-----	
	<i>Acanthochondria hoi</i>	74.1	100	83.3	0.0	-----	
	<i>Auchenochondria lobosa</i>	14.8	0.0	0.0	50.0	-----	
	<i>Taeniacanthodes haakeri</i>	3.7	0.0	0.0	0.0	-----	
	<i>Caligus pectinatus</i>	3.7	0.0	0.0	0.0	-----	
	<i>Lepeophtheirus remiopsis</i>	3.7	0.0	16.7	0.0	-----	
	<i>Lepeophtheirus spatha</i>	18.5	50.0	0.0	0.0	-----	
	chalimus	7.4	0.0	0.0	50.0	-----	
	aegathoid	3.7	0.0	16.7	0.0	-----	
	praniza	22.2	50.0	16.7	100	-----	

E9. (continued)

Host	Parasite	PREVALENCE (%)				
		SCB*	HY	LA	OC	SD
<i>Xystreureys liolepis</i>	<i>Neoheterobothrium hippoglossini</i>	38.5	50.0	-----	0.0	-----
	<i>Austrobdella</i> sp. 3	3.8	0.0	-----	0.0	-----
	<i>Holobomolochus prolixus</i>	61.5	0.0	-----	60.0	-----
	<i>Acanthochondria cyclopsetta</i>	57.7	50.0	-----	20.0	-----
	<i>Taeniacanthodes haakeri</i>	7.7	0.0	-----	0.0	-----
	<i>Lepeophtheirus bifurcatus</i>	3.8	0.0	-----	0.0	-----
	chalimus	61.5	50.0	-----	100	-----
	<i>Parabrachiella paralichthyos</i>	53.8	50.0	-----	40.0	-----
Pleuronectidae						
<i>Glyptocephalus zachirus</i>	<i>Lepeophtheirus pravipes</i>	4.3	-----	-----	-----	0.0
<i>Lepidopsetta bilineata</i>	<i>Elthusa vulgaris</i>	20.0	-----	-----	-----	-----
<i>Lyopsetta exilis</i>	not infected	0.0	-----	-----	-----	0.0
<i>Microstomus pacificus</i>	<i>Acanthochondria margolisi</i>	1.1	0.0	0.0	3.1	1.8
	praniza	4.9	10.8	4.4	12.5	1.8
<i>Parophrys vetulus</i>	<i>Acanthochondria dojirii</i>	8.3	9.1	12.5	10.0	0.0
	<i>Lepeophtheirus remiopsis</i>	1.6	4.5	0.0	5.0	0.0
	chalimus	1.1	1.1	0.0	0.0	0.0
	<i>Elthusa vulgaris</i>	0.9	0.0	1.1	0.0	0.0
	praniza	36.9	55.7	30.7	80.0	9.2
<i>Pleuronichthys coenosus</i>	<i>Holobomolochus prolixus</i>	33.3	-----	33.3	-----	-----
<i>Pleuronichthys decurrens</i>	<i>Holobomolochus prolixus</i>	16.1	-----	25.0	-----	-----
	<i>Acanthochondria fraseri</i>	23.2	-----	0.0	-----	-----
	<i>Taeniacanthodes haakeri</i>	5.4	-----	0.0	-----	-----
	chalimus	3.6	-----	25.0	-----	-----
	<i>Elthusa vulgaris</i>	1.8	-----	0.0	-----	-----
	praniza	5.4	-----	0.0	-----	-----
	<i>Austrobdella</i> sp. 2	4.3	0.9	5.8	0.0	0.0
<i>Pleuronichthys verticalis</i>	<i>Holobomolochus prolixus</i>	12.9	13.7	18.8	3.3	0.0
	<i>Acanthochondria fraseri</i>	15.8	12.0	27.5	10.0	0.0
	<i>Taeniacanthodes haakeri</i>	8.0	4.3	11.6	16.7	0.0
	<i>Lepeophtheirus pravipes</i>	0.3	0.9	0.0	0.0	0.0
	chalimus	23.6	14.5	47.8	26.7	100
	<i>Elthusa californica</i>	0.3	0.0	1.4	0.0	0.0
	<i>Elthusa vulgaris</i>	2.9	2.6	8.7	0.0	0.0
	aegathoid	0.3	0.0	1.4	0.0	0.0
	<i>P. verticalis</i> (continued)	praniza	35.6	41.0	30.4	43.3
Cynoglossidae						
<i>Symphurus atricaudus</i>	not infected	0.0	0.0	0.0	0.0	0.0

*SCB = Southern California Bight; HY = City of Los Angeles Bureau of Sanitation-Hyperion; LA = Los Angeles County Sanitation District; OC = Orange County Sanitation District; SD = City of San Diego Metropolitan Wastewater Department-Point Loma

E10. Host-parasite mean intensity of individual host and parasite species by Large-Outfall collected at depths of 22-198 m in the Southern California Bight, July through October 2003.

Host	Parasite	MEAN INTENSITY					
		SCB*	HY	LA	OC	SD	
SCORPAENIFORMES							
Scorpaenidae							
<i>Scorpaena guttata</i>	<i>Austrobdella</i> sp. 1	1.9	1.0	0.0	2.2	0.0	
	<i>Holobomolochus spinulus</i>	1.0	0.0	0.0	1.0	0.0	
	<i>Pseudodiocus scorpaenus</i>	1.4	1.6	1.2	1.5	1.5	
	<i>Lepeophtheirus rotundipes</i>	4.1	3.1	4.3	4.8	3.3	
	<i>Naobranchia scorpaenae</i>	54.3	79.8	32.0	89.1	15.7	
	<i>Elthusa californica</i>	1.0	0.0	0.0	0.0	0.0	
	<i>Elthusa vulgaris</i>	1.0	1.0	0.0	0.0	0.0	
	praniza	1.1	1.0	1.3	1.0	0.0	
	<i>Sebastes caurinus</i>	not infected	0.0	----	----	----	----
	<i>Sebastes chlorostictus</i>	<i>Microcotyle sebastis</i>	3.7	----	----	----	----
	<i>Sebastes dallii</i>	not infected	0.0	0.0	----	0.0	----
	<i>Sebastes elongatus</i>	not infected	0.0	----	----	----	0.0
	<i>Sebastes goodei</i>	not infected	0.0	----	----	----	----
	<i>Sebastes jordani</i>	not infected	0.0	----	----	----	0.0
<i>Sebastes miniatus</i>	<i>Parabrachiella robusta</i>	4.8	1.0	----	----	----	
	praniza	1.0	0.0	----	----	----	
<i>Sebastes paucispinis</i>	not infected	0.0	0.0	----	----	----	
<i>Sebastes rubrivinctus</i>	not infected	0.0	----	----	----	0.0	
<i>Sebastes saxicola</i>	<i>Microcotyle sebastis</i>	5.6	0.0	5.3	0.0	6.0	
	<i>Caligus pectinatus</i>	1.0	0.0	0.0	0.0	0.0	
	chalimus	1.0	0.0	0.0	0.0	0.0	
	<i>Clavella parva</i>	1.7	1.2	2.1	0.0	0.0	
	praniza	1.0	0.0	0.0	0.0	0.0	
	<i>Sebastes semicinctus</i>	<i>Microcotyle sebastis</i>	2.3	0.0	0.0	0.0	0.0
chalimus		1.0	0.0	0.0	1.0	1.0	
<i>Clavella parva</i>		1.6	1.0	0.0	2.0	1.3	
praniza		1.0	0.0	0.0	1.0	0.0	
Hexagrammidae							
<i>Ophiodon elongatus</i>	chalimus	1.0	0.0	----	1.0	----	
	<i>Elthusa vulgaris</i>	1.0	0.0	----	1.0	----	
	praniza	1.7	0.0	----	2.0	----	
<i>Zaniolepis frenata</i>	not infected	0.0	0.0	----	0.0	0.0	
<i>Zaniolepis latipinnis</i>	chalimus	2.0	0.0	0.0	1.0	0.0	
	praniza	1.0	0.0	0.0	0.0	0.0	
Cottidae							
<i>Chitonotus pugetensis</i>	<i>Holobomolochus prolixus</i>	1.0	0.0	0.0	1.0	0.0	
	chalimus	1.5	0.0	0.0	1.5	0.0	
	<i>Elthusa californica</i>	1.0	0.0	0.0	0.0	0.0	
<i>Icelinus quadriseriatus</i>	chalimus	1.1	1.1	1.0	1.0	0.0	
	praniza	1.0	0.0	0.0	1.0	0.0	
<i>Icelinus tenuis</i>	not infected	0.0	0.0	----	----	----	
PLEURONECTIFORMES							
Paralichthyidae							
<i>Citharichthys fragilis</i>	<i>Argulus</i> sp.	1.0	----	----	1.0	0.0	
<i>Citharichthys sordidus</i>	<i>Argulus</i> sp.	1.0	1.0	0.0	0.0	0.0	

E10. (continued)

Host	Parasite	MEAN INTENSITY					
		SCB*	HY	LA	OC	SD	
<i>C. sordidus</i> (continued)	<i>Holobomolochus prolixus</i>	1.0	1.0	0.0	0.0	0.0	
	<i>Lepeophtheirus remiopsis</i>	1.0	0.0	0.0	0.0	0.0	
	chalimus	1.0	0.0	0.0	0.0	0.0	
	<i>Naobranchia occidentalis</i>	1.2	1.2	1.0	1.0	0.0	
	<i>Parabrachiella</i> sp. 1	1.0	0.0	0.0	0.0	0.0	
	<i>Phrixecephalus cincinnatus</i>	1.1	1.0	1.1	1.0	1.2	
	<i>Elthusa californica</i>	1.0	0.0	0.0	0.0	0.0	
	<i>Elthusa vulgaris</i>	1.0	1.0	1.0	1.0	1.0	
	aegathoid	1.0	0.0	0.0	0.0	0.0	
	praniza	1.0	1.0	1.0	1.0	0.0	
	<i>Citharichthys stigmaeus</i>	<i>Holobomolochus prolixus</i>	1.4	1.3	1.5	1.4	----
		<i>Taeniacanthodes haakeri</i>	1.0	0.0	0.0	0.0	----
		<i>Caligus pectinatus</i>	1.0	0.0	0.0	0.0	----
<i>Caligus</i> sp.		1.0	0.0	0.0	0.0	----	
<i>Lepeophtheirus remiopsis</i>		1.0	0.0	0.0	0.0	----	
chalimus		1.3	0.0	0.0	0.0	----	
<i>Elthusa californica</i>		1.0	0.0	0.0	0.0	----	
<i>Elthusa vulgaris</i>		1.0	0.0	1.0	0.0	----	
aegathoid		1.0	0.0	0.0	0.0	----	
praniza		1.0	1.0	1.0	0.0	----	
<i>Citharichthys xanthostigma</i>	<i>Holobomolochus prolixus</i>	1.0	0.0	0.0	0.0	0.0	
	<i>Lepeophtheirus remiopsis</i>	1.0	0.0	0.0	0.0	0.0	
	<i>Clavella parva</i>	1.2	1.0	1.0	1.3	0.0	
	<i>Naobranchia occidentalis</i>	2.0	1.7	3.0	1.4	8.0	
	<i>Parabrachiella</i> sp. 1	1.1	1.0	1.0	1.3	0.0	
	<i>Phrixecephalus cincinnatus</i>	1.0	0.0	0.0	0.0	0.0	
	<i>Elthusa californica</i>	1.0	0.0	0.0	0.0	0.0	
	<i>Elthusa vulgaris</i>	1.0	0.0	0.0	0.0	0.0	
	praniza	1.1	1.2	2.0	1.1	0.0	
	<i>Hippoglossina stomata</i>	<i>Neoheterobothrium hippoglossini</i>	1.8	2.5	1.0	1.4	1.0
<i>Austrobdella californiana</i>		1.3	4.0	1.0	1.3	0.0	
<i>Holobomolochus prolixus</i>		1.6	2.2	1.4	1.6	2.5	
<i>Protochondria longicauda</i>		1.1	1.0	1.5	1.0	1.0	
<i>Taeniacanthodes haakeri</i>		4.6	1.7	0.0	1.0	0.0	
<i>Caligus pectinatus</i>		1.0	0.0	0.0	1.0	0.0	
<i>Lepeophtheirus remiopsis</i>		1.0	0.0	0.0	0.0	0.0	
<i>Lepeophtheirus</i> sp.		1.0	0.0	0.0	0.0	0.0	
chalimus		1.8	2.0	1.0	1.0	0.0	
<i>Elthusa californica</i>		1.0	0.0	1.0	0.0	0.0	
praniza	1.2	1.0	1.0	1.0	1.0		
<i>Paralichthys californicus</i>	<i>Entobdella hippoglossi</i>	11.3	12.0	1.0	0.0	----	
	<i>Holobomolochus prolixus</i>	3.7	2.5	1.0	0.0	----	
	<i>Acanthochondria hoi</i>	2.7	5.0	2.2	0.0	----	
	<i>Auchenochondria lobosa</i>	1.0	0.0	0.0	1.0	----	
	<i>Taeniacanthodes haakeri</i>	1.0	0.0	0.0	0.0	----	
	<i>Caligus pectinatus</i>	1.0	0.0	0.0	0.0	----	
	<i>Lepeophtheirus remiopsis</i>	1.0	0.0	1.0	0.0	----	
	<i>Lepeophtheirus spatha</i>	2.2	3.0	0.0	0.0	----	
	chalimus	1.0	0.0	0.0	1.0	----	
	aegathoid	1.0	0.0	1.0	0.0	----	
praniza	1.2	1.0	1.0	1.5	----		

E10. (continued)

Host	Parasite	MEAN INTENSITY				
		SCB*	HY	LA	OC	SD
<i>Xystreureys liolepis</i>	<i>Neoheterobothrium hippoglossini</i>	3.4	3.0	----	0.0	----
	<i>Austrobdella</i> sp. 3	1.0	0.0	----	0.0	----
	<i>Holobomolochus prolixus</i>	1.3	0.0	----	1.0	----
	<i>Acanthochondria cyclopsetta</i>	2.1	1.0	----	1.0	----
	<i>Taeniacanthodes haakeri</i>	1.0	0.0	----	0.0	----
	<i>Lepeophtheirus bifurcatus</i>	1.0	0.0	----	0.0	----
	chalimus	3.4	3.0	----	2.4	----
	<i>Parabrachiella paralichthyos</i>	1.9	1.0	----	2.5	----
Pleuronectidae						
<i>Glyptocephalus zachirus</i>	<i>Lepeophtheirus pravipes</i>	1.0	----	----	----	0.0
<i>Lepidopsetta bilineata</i>	<i>Elthusa vulgaris</i>	2.0	----	----	----	----
<i>Lyopsetta exilis</i>	not infected	0.0	----	----	----	0.0
<i>Microstomus pacificus</i>	<i>Acanthochondria margolis</i>	1.2	0.0	0.0	1.5	1.0
	praniza	3.1	1.8	1.0	6.8	1.5
<i>Parophrys vetulus</i>	<i>Acanthochondria dojirii</i>	1.5	3.0	1.2	1.0	0.0
	<i>Lepeophtheirus remiopsis</i>	1.2	1.0	0.0	1.0	0.0
	chalimus	1.0	1.0	0.0	0.0	0.0
	<i>Elthusa vulgaris</i>	1.0	0.0	1.0	0.0	0.0
	praniza	2.1	2.5	1.5	2.5	1.5
<i>Pleuronichthys coenosus</i>	<i>Holobomolochus prolixus</i>	1.0	----	1.0	----	----
<i>Pleuronichthys decurrens</i>	<i>Holobomolochus prolixus</i>	1.6	----	1.0	----	----
	<i>Acanthochondria fraseri</i>	1.2	----	0.0	----	----
	<i>Taeniacanthodes haakeri</i>	2.3	----	0.0	----	----
	chalimus	2.5	----	4.0	----	----
	<i>Elthusa vulgaris</i>	1.0	----	0.0	----	----
	praniza	1.0	----	0.0	----	----
<i>Pleuronichthys verticalis</i>	<i>Austrobdella</i> sp. 2	1.5	1.0	1.5	0.0	0.0
	<i>Holobomolochus prolixus</i>	1.1	1.2	1.2	1.0	0.0
	<i>Acanthochondria fraseri</i>	1.3	1.4	1.4	1.0	0.0
	<i>Taeniacanthodes haakeri</i>	2.3	1.4	2.1	1.6	0.0
	<i>Lepeophtheirus pravipes</i>	2.0	2.0	0.0	0.0	0.0
	chalimus	4.3	4.8	6.1	1.8	2.0
	<i>Elthusa californica</i>	1.0	0.0	1.0	0.0	0.0
	<i>Elthusa vulgaris</i>	1.0	1.0	1.0	0.0	0.0
	aegathoid	1.0	0.0	1.0	0.0	0.0
<i>P. verticalis</i> (continued)	praniza	2.1	2.0	2.2	1.9	1.0
Cynoglossidae						
<i>Symphurus atricaudus</i>	not infected	0.0	0.0	0.0	0.0	0.0

*SCB = Southern California Bight; HY = City of Los Angeles Bureau of Sanitation-Hyperion;
 LA = Los Angeles County Sanitation District; OC = Orange County Sanitation District;
 SD = City of San Diego Metropolitan Wastewater Department-Point Loma