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Parasitic investigations in juvenile and adult salmon
in 1968 and 1969 in selected Irish waters

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Table 1. Incidence and abundance of parasites of Smolts by species and area of origin (1969)

SOURCE	No. Smolts examined	DATE	% Parasitised	Trematoda						Nematoda				Acanthocephala		
				Discocotyle sagittata	Crepidostomum metoecus	Crepidostomum farionis	Dergenes farionis	Derogenes varicus	Contracaecum sp.	Metabronema salvelini	Cystidicola farionis	Pomphorhynchus laevis				
LEE	21	28.4.69	33 $\frac{1}{3}$	9(3)	-	-	-	-	-	-	-	-	-	-	33 (9)	-
SLANEY	20	3.4.69	NIL	-	-	-	-	-	-	-	-	-	-	-	-	-
O'NEA	22	10.4.69	27.2	-	-	-	18.9(2)	-	-	-	2 (6)	50(30+)	40 (3)	95(12)	-	-
BOYNE	20	28.4.69	85	-	10(5)	5(5)	-	-	-	-	-	-	-	80(4)	-	-
SUIR	23	6.5.69	100	-	-	3(6)	-	-	-	-	-	30(10)	60(20)	70(12)	-	-
FOYLE	24	6.5.69	100	-	-	-	80 (30+)	-	-	6(3)	-	40(15)	90(8)	-	-	-
CORRIB	9	29.4.69	88.8	-	20(8)	-	-	-	-	-	-	-	-	-	-	-
	20	13.6.69	100	-	12(10)	4(4)	10(40+)	-	-	-	-	85(30+)	90(8)	-	-	-

First figure represents percent of each sample infested and figure in parenthesis indicates mean number parasites per infested fish.

Table 2. Incidence and abundance of parasites by species,
in 51 adult salmon from Irish waters, 1968.

SPECIES	OCCURRENCE
<u>Protozoa</u>	
<i>Discocotyle sagittata</i>	4 (2)
<i>Derogenes varius</i>	86 (40+)
<i>Hemiurus levinseni</i>	4 (3)
<i>Grepidostomum metoecus</i>	10 (12)
<i>Tetracolyte</i> sp.	1 (3)
<u>Cestoda</u>	
<i>Eubothrium crassum</i>	45 (8)
<i>Diphyllobothrium dendriticum</i> (plc.)	2 (1)
<u>Nematoda</u>	
<i>Anisakis</i> larvae	80 (15)
<i>Contracaecum</i> sp.	30 (8)
<i>Raphidascaris</i> sp.	15 (4)
<i>Porrocaecum</i> sp.	9 (6)
<i>Rhabdochona</i> sp.	12 (6)
<i>Ascarophis</i> sp.	5 (4)
<i>Cystidicole farionis</i>	90 (100+)
<i>Camallanus lacustris</i>	8 (2)
<u>Acanthocephala</u>	
<i>Echinorhynchus truttae</i>	4 (2)
<u>Crustaceae</u>	
<i>Salmincola salmonea</i>	4 (6)
<i>Argulus foliaceus</i>	1 (1)

Table 3. Incidence and abundance of Anisakis larve in adult salmon in Irish waters.

Infected Organ	% fish infected		range		mean per infected organ	
	'68	'69	'68	'69	'68	'69
Viscera	80	87.5			2	1
Pyloric caecae	60	56	1-18	1-20	6	5
Liver	25	40	1-5	1-10	1	5
Body cavity (free)	8	10	1-5	1-15	2	3
Stomach	10	4	1-3	1-4	1	1
Intestine	20	5	1-9	1-3	4	2
Mesentery	30	20	1-80	1-15	4	4
Spleen	3	8	1-2	1-8	2	4
Oesophagus	-	-	-	-	-	-
Air bladder	-	1	-	1-1	-	1
Urinary bladder	-	-	-	-	-	-
Muscles	45	20	1-10	1-6	5	4