RESEARCH REPORTS

DOGFISH COLLECTION AT MOUNT DESERT ISLAND BIOLOGICAL LABORATORY DURING THE SUMMER SEASONS OF 1973 THROUGH 1981

Tabulated by Katherine Spokes and Patricio Silva, Charles A. Dana Research Institute and the Harvard-Thorndike Laboratory of Beth Israel Hospital, Department of Medicine, Beth Israel Hospital and Harvard Medical School, Boston, Mass.

Tables I and II summarize dogfish collection data from 1973 to 1981. A new crew did the collections for this past summer. An additional crew member was added at the end of August. Outside fisherman supplemented the catch as noted in the tables. The areas that were fished regularly are shown in Figure 1. In addition to the 3 areas fished in 1980, one new area (labelled D on the map) was fished regularly this past season. Eight other areas were fished only once, usually on the same trip as one of the regular fishing areas. Gill nets were used throughout the summer, although some handlines were used in late August. Of the 1026 fish that were caught, 504 were females. There was no difference in the number of fish caught when high or low tide occurred in the middle of the fishing period $(24 \pm 14 (10) \text{ vs } 24 \pm 24(9))$. When the tide was rising there were significantly less fish caught than when the tide was falling $(18 \pm 11(10) \text{ vs } 34 \pm 19(8))$. In the tables, averages represent arithemetical means plus or minus standard deviation.

TABLE I Dogfish Collection Data at MDIBL for the Summer Seasons 1973-1981

Year	Number of Collecting Trips	Date of First Trip	Date of Last Trip	Dogfish Collected	Dogfish Delivered to Common Pool	Dogfish/Trip Collected	Dogfish/Trip Delivered to Investigator Live Cars	
1973	30	6/27	8/29	1608	452**	53 <u>+</u> 32	39 <u>+</u> 19	
1974	38	6/19	9/16	1619	148*	43 <u>+</u> 30	39 <u>+</u> 30	
1975	28	6/26	8/28	135 3	366	48 + 26	35 <u>+</u> 20	
1976	47	6/24	8/28	1258**	-	-	27 <u>+</u> 18	
1977	28	6/21	9/9	988	466	35 <u>+</u> 22	17 <u>+</u> 7	
1978	23	6/20	9/8	726	155	32 <u>+</u> 21	22 + 12	
1979*	** 34	6/14	9/11	884	62	26 <u>+</u> 20	24 <u>+</u> 16	
1980	31	6/19	9/12	1258	585	42 <u>+</u> 20	22 + 13	
1981	45 ⁺	6/15	9/10	1026++	225 +++	23 + 18 ⁺⁺	18 + 15 +++	

^{*}Minimum number. On many occasions the records show only a plus (+) sign for dogfish delivered to the common pool. On other occasions the number delivered to the common pool is not stated.

^{**}In the year 1976 the number of dogfish delivered to the common pool was not stated so the number stated here only depicts those dogfish delivered to individual investigator live cars.

^{***}In July 1979 an unusual migration of large numbers of squid into Frenchman Bay disrupted trawl fishing and gill nets were substituted.

⁺Includes 7 deliveries by Gordon King & 1 delivery by Bud Hodgkins; ++Includes 70 fish delivered by Gordon King & 50 fish by Bud Hodgkins; +++Includes 50 fish delivered by Bud Hodgkins, and ++++Includes 7 deliveries by Gordon King.

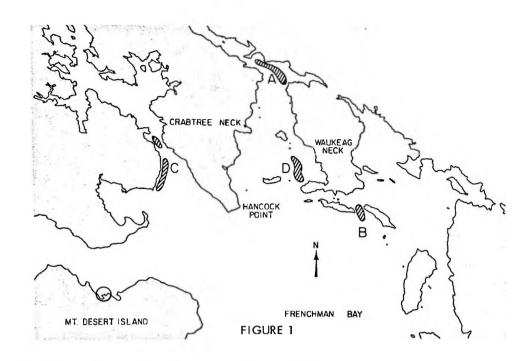


TABLE II Number of Dogfish Collected per Fishing Trip for each Week of the Summer Season

Week	1973	1974	1975	1976+	1977	1978	1979	1980	1981	Average 1973-81	Average 1978-80
1*	8	13	13	13	23	16	8	26	16	15+6	17+9
2	18	31	9	17	32	7	14	10	204	18+10	10+4
3	42	41	86	24	21	25	28	48	28	40+21	34 <u>+</u> 13
4	69	48	31	29	48	25	39	31	50	43+14	32 <u>+</u> 7
5	84	52	62	39	52	41	31	43	21^	48+19	38+6
6	50	55	53	30	33	26	10	41	43	39+15	26+16
7	98	87	72	27	61	53	46	39	10	58+28	46+7
8	65	62	54	38	37	75	27	52	19	49+20	51+24
9	61	50	61	24	36	32	43	85	27	49+19	53+28
10	53	29	35	6	41	25	32	60	50 ⁰⁰⁰	41+13	39+19
11**	-	8	_	-	6	40	12	31	44	24+17	28+14

^{*}Week number 1 includes all collecting trips during the month of June.

^{**}Week number 11 includes all the collecting trips during the month of September.

⁺The number shown for the year 1976 depict only those fish delivered to individual investigator live cars. The total number collected was not available.

⁺⁺Does not include the 1976 numbers; Alncludes 2 deliveries by Gordon King; Mincludes 3 deliveries by Gordon King, and Addincludes 1 delivery by Bud Hodgkins.