HARVEST OF INTERTIDAL, NONFOOD INVERTEBRATES 1981

A collecting permit from the Oregon Department of Fish and Wildlife is required to take intertidal nonfood invertebrates from permit areas or in excess of personal bag limits (10 animals). Upon expiration of a permit, harvesters are required to report kinds and numbers of animals taken by areas.

Collecting reports are analyzed to determine commercial and educational harvest and number of animals taken by taxonomic groups by area. Collecting trends are determined by analyzing index species, harvest and number of collectors.

Results and Discussion

In 1981, 130 collecting permits were issued. Collecting reports were returned by 52 percent of the permittees. Reports showed a total harvest of 6852 animals taken by 55 collectors (Table 1).

Table 1. Summary of Intertidal, Nonfood Issued, Collecting Reports Ret			
Educational permits issued Commercial permits issued	130	100% 0%	
Collecting reports returned Collecting reports showing no harvest Collecting reports showing a harvest	67 12 55	52% 18% 82%	
Educational harvest Commercial harvest Total harvest	6,852 0 6,852	100%	

Commercial Harvest

No commercial permits were applied for in 1981.

Educational Harvest

A harvest of 6,852 were taken by 55 collectors. Harvesters concentrated on taking sea urchins, sea urchins and limpets which accounted for 42 percent of the harvest. Table 2 lists the number of animals by taxonomic groups and harvest area. The percentage of the "others" catagory increased over last year (0.8% to 28.6%) due to a large collection of mussels in the Sunset area and a large collection of clams in the Central coast area. The harvest was more evenly distributed throughout all areas than last year with Sunset Bay — Cape Arago receiving the heaviest pressure taking 41% of the harvest. Yaquina Head was the most visited permit area and the central coast was the most frequently used open area (Table 3).

Table 3. Educational Collecting Intensity by Area, Oregon Coast, 1981.

Location	Permitees Collecting in Area	<u>Percentage</u>
Boiler Bay	8	11.8
Shell Cove	1	1.5
Yaquina Head	25	37 . 8
Neptune State Park	3	4.4
Sunset Bay-Cape Arago	16	23.5
Harris Beach	1	1.5
North Coast		
(Columbia River - Tillamook Bay) 2	2.9
Central Coast		
(Tillamook Bay Coos Bay)	10	14.7
South Coast		
(Coos Bay - California border)	2	2.9
TOTAL	<u>2</u> 68	

Table 2. Recertidal Nonfood Invertebrates Harvested by Educational Collectors Along the Oregon Coast, by Area and Taxonomic Group, 1981.

Animal Group	Haystack Rock	Boiler Bay	Shell Cove (Depoe Bay)	Yaquina Head	Neptune State Park	Sunset Bay-Cape Arago	Harris Beach Permit Area	North Coast	Central Coast ²	South _{3/} Coast	Total	Percentage
Coelenterata Sea anemones	0	12	0	72	0	68	0	1	7	0	160	2.3
Annelida Marine worms	0	23	0	89	14	126	0	1	21	2	276	4.0
Arthropoda Hermit & Porce- lain crabs Ghost & mud shrimp Shore, spider	0 0	27 0	0	117 20	10 0	51 5	0	0	7 44	3	215 ~ 69	3.1 1.0
& kelp crabs	0	13	0	102	1	32	0	1	55	4	208	3.0
Mullusca Chitons Snails, limpets Sea slugs or	0	16 670	0 4	72 265	7	543 624	0	25 25	8 11	4 6	651 1612	9.5 23.5
nudibranchs	0	16	0	54	5	8	0	. 0	2	4	89	1.3
Echinodermata Sea stars or								;				
star fi sh	0	23	1	97	5	64	0	2	7	9	208	3.0
Sea urchi ns	0	676	0	422	4	196	0	0	1	2	1301	19.0
Sand dollars	0	0	0	0	0	20	0	0	0	0	∠ 20	.3
Brittle stars	0	1	0	11	3	7	0	0	0	0	22	.3
Sea cucumbers	0	0	0	- 14	1	25	0	0	3	19	62	•9
Other groups	0	17	0	127	1	1041	25	0	746	2	≥ 1959	28.6
Total	0	1494	5	1462	58	2810	25	31	912	55	6852	
Percentage	0	21.8	0.1	21.3	0.8	41.0	0.4	0.5	13.3	0.8	100	

 $[\]frac{1}{2}$ / Columbia River to Tillamook Bay $\frac{2}{3}$ / Tillamook Bay to Coos Bay $\frac{3}{3}$ / Coos Bay to California border.

HAYSTAC	CKBOILER BS	HELL CO	YAQUINA	NEPTUNE	SUNSET	HARRIS	NORTH	CENTRAL	SOUTH	TOTAL PERCEN
ANEMONES	12	GENT GENE GENE GENE GENE GENE GENE GENE	72		68		1	7		160 2.3
WORMS	23		89	14	126		1	21	2	276 4.0
HERMIT C G.SHRIMP	27		117 20	10	51 5			7 44	3	215 3.1. 69 1.0.
SHORE C.	13		102	1	32		1	55	4	208 3.0
CHITONS LIMPETS NUDIBRAN	16 670 16	4	72 265 54	7 7 5	543 624 8		1 25	8 11 2	6 4	651 9.5 1612 23.5 89 1.3
SEA STAR JRCHINS S.DOLLAR	23 676	1	97 422	5 4	64 196 20		2	7	9 2	208 3.0 1301 19.0 20 .3
BRITTLE CUCUMBER	1		11	3	7 25		A A	3	19	22 .3° 62 .9°
THER	17		127	1	1041	25		746	2	1959 28.6
TOTAL PERCENT	1494 21-8	5 <i>0</i> ./	1462 24-3	58 0-8	2810 #/o			912 /3.3	55 Ø.8	6852 100