

FISH COMMISSION OF OREGON
TRAWL INVESTIGATIONS

Report of cruise 67-9, Pacific ocean perch

Vessel: MV Sunrise, chartered trawler.

Dates: September 14-18, 1967

Objectives: 1. To obtain catch-per-effort data normally supplied by commercial trawlers on Pacific ocean perch and associated species in Loran blocks 2H4 2500 and 2600.

2. To take length frequencies by sex of Pacific ocean perch.

Materials and Methods: A 3-1/2-inch mesh (stretched measure) Eastern otter trawl with a 54-foot head rope, a 76-foot foot rope with rubber rollers, and a 320-mesh body was used.

Results: Ten tows were made of 1 to 2 hours duration. Nine tows were made by the Sunrise and one tow was made by the commercial trawler Lynda Dawn.

Seven length-frequency samples were taken, six of Pacific ocean perch (S. alutus) and one of yellowmouth rockfish (S. reedii). Table 1 shows location and depth of tow, time fished, and poundages of fish caught. Length frequencies are shown in Table 2.

Table 3 lists the common and scientific names of fishes caught according to the category listed in Table 1.

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Fish Commission of Oregon
Research Division
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Table 1. Location of tows and catch in pounds per tow.
(Numbers in parentheses are pounds per hour.)

Tow no.	Depth (fms)	Loran		Time (hrs)	Pacific ocean perch	Other ^{1/} rockfish	Flat-fish	Round fish
		2H4	2H5					
1	147-146	2690-2635	- -	2.0	500 (250)	500 (250)	160 (80)	100 (50)
2	160-148	2622-2682	- -	2.0	1,440 (720)	160 (80)	550 (275)	600 (300)
3	152-154	2682-2632	- -	2.0	480 (240)	120 (60)	90 (45)	760 (380)
4	157-158	2695-2630	- -	2.0	100 (50)	150 (75)	450 (225)	15 (7)
5	155-158	2510-2510	3360 -	2.0	T	22,000 (11,000)	12 (6)	30 (15)
6	170-176	2510-2515	3360-3362	2.0	20 (10)	190 (80)	5 (3)	70 (35)
7	153-200	2510-2525	3360-3368	1.0	-	3,000 (3,000)		
8	146-142	2588-2638	- -	2.0	190 (80)	40 (20)	106 (53)	270 (135)
9	183-190	2655-2710	- -	2.0	160 (80)	640 (320)	20 (10)	850 (425)
10 ^{2/}	151	2528	- - -	1.3		3,000 (2,300)	-	-

^{1/} Other rockfish caught consisted of species generally sold on the market as perch.

^{2/} Tow made by MV Lynda Dawn.

Table 2. Pacific ocean perch and yellowmouth rockfish length-frequency distributions by sex.

Length (cm)	Tow number													
	1		2		3		4		5 ^{1/}		8		9	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	1	1	-	-	-	-	1	1	-	-	1	1	-	-
27	0	0	-	-	5	-	0	2	-	-	3	1	-	-
28	3	1	-	-	1	2	2	1	-	-	1	3	1	-
29	4	2	3	1	5	4	7	2	-	-	8	5	0	-
30	6	5	4	1	1	6	5	8	-	-	7	9	3	1
31	2	2	2	5	5	1	4	0	-	-	10	5	4	0
32	7	10	3	4	2	3	5	2	3	1	6	11	0	0
33	4	5	6	2	3	5	5	4	10	16	5	7	2	1
34	8	5	9	3	7	4	2	4	15	11	3	0	8	1
35	2	6	4	7	3	2	3	8	4	8	0	0	8	3
36	1	3	6	5	3	4	1	4	2	2	1	4	9	4
37	2	7	3	2	0	7	4	2	0	0	2	1	12	6
38	2	6	1	3	0	4	2	3	0	0	0	0	9	7
39	-	2	-	2	0	2	-	1	0	0	0	1	5	4
40	-	0	-	2	0	0	1	1	0	0	1	1	1	8
41	-	2	-	2	1	0	-	1	1	3	-	1	1	2
42	-	0	-	0	-	1	-	0	1	5	-	1	-	1
43	-	0	-	2	-	-	-	1	0	4	-	-	-	2
44	-	0	-	-	-	-	-	1	1	4	-	-	-	1
45	-	1	-	-	-	-	-	-	1	1	-	-	-	1
46	-	-	-	-	-	-	-	-	1	2	-	-	-	-
47	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Total	42	58	41	41	36	45	41	46	39	58	48	51	63	42
% males	42		50		44		48		40		48		60	

^{1/} yellowmouth rockfish

Table 3. Common and scientific names of fishes caught.

Common name	Scientific name
Pacific ocean perch	<u>Sebastes alutus</u>
Rockfishes:	
Rougeye rockfish	<u>S. aleutianus</u>
Blackmouth rockfish	<u>S. crameri</u>
Splitnose rockfish	<u>S. diploproa</u>
Widow rockfish	<u>S. entomelas</u>
Rosethorn rockfish	<u>S. helvomaculatus</u>
Canary rockfish	<u>S. pinniger</u>
Red stripe rockfish	<u>S. proriger</u>
Yellowmouth rockfish	<u>S. reedi</u>
Flag rockfish	<u>S. rubrivinctus</u>
Turkey-red rockfish	<u>S. ruberrimus</u>
Sharpchin rockfish	<u>S. zacentrus</u>
Shortspine channel rockfish	<u>Sebastolobus alascanus</u>
Flatfishes:	
Arrowtooth flounder	<u>Atheresthes stomias</u>
Rex sole	<u>Glyptocephalus zachirus</u>
Pacific halibut	<u>Hippoglossus stenolepis</u>
Clender sole	<u>Lyopsetta exilis</u>
Dover sole	<u>Microstomus pacificus</u>
Round fishes:	
Spiny dogfish	<u>Squalus acanthias</u>
Pacific hake	<u>Merluccius productus</u>
Sablefish	<u>Anoplopoma fimbria</u>
Lingcod	<u>Ophiodon elongatus</u>