

APPENDIX D

Historical Economic Data

APPENDIX D TABLES
Historical Economic Data

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Table D-1. California troll chinook and coho average weights (pounds) by area of landing and month for 1976-1984, with 1971-1975 average.

Area of Landing	April	May	June	July	Aug.	Sept.	Season	May	June	July	Aug.	Sept.	Season
	<u>CHINOOK</u>							<u>COHO</u>					
<u>Crescent City</u>													
1971-1975 Average	10.2	8.4	9.3	8.5	9.6	8.0	8.9	4.3	4.9	6.6	8.2	9.0	5.6
1976	6.8	8.4	8.7	8.0	9.2	7.4	8.6	3.7	4.2	5.7	6.2	7.4	4.5
1977	10.3	8.6	9.7	9.6	10.7	8.6	9.5	4.2	5.3	7.7	8.1	9.7	6.7
1978	8.6	8.3	8.4	8.4	8.4	8.4	8.4	4.0	4.1	4.2	4.2	4.2	4.2
1979	b/	8.1	8.2	8.7	8.9	8.9	8.9	4.1	4.4	6.2	6.4	6.4	6.4
1980	-	8.8	10.6	10.3	10.2	9.1	9.3	4.1	4.4	5.8	6.8	7.1	6.2
1981 ^{a/}	-	8.9	9.8	8.8	9.3	8.9	9.0	3.8	4.2	5.9	6.8	7.1	5.2
1982 ^{a/}	-	8.3	8.7	9.8	9.4	9.0	9.2	3.9	4.4	5.9	6.5	6.2	5.9
1983 ^{a/}	-	7.2	7.5	7.6	7.2	-	7.5	-	4.3	4.3	4.5	-	4.3
1984 ^{a/}	-	7.1	7.0	7.9	8.3	-	7.7	-	-	-	7.5	-	7.5
<u>Eureka</u>													
1971-1975 Average	8.3	8.6	10.2	8.9	9.2	10.0	9.2	4.4	5.5	6.9	8.1	6.6	5.5
1976	7.4	8.1	9.0	7.1	7.9	7.0	8.0	3.0	4.5	6.0	6.1	-	3.9
1977	7.7	7.9	8.9	8.6	9.5	10.4	8.4	3.9	4.7	7.6	8.0	6.8	6.2
1978	7.5	8.3	8.5	8.5	8.4	8.4	8.4	4.0	4.3	4.6	4.6	4.7	4.7
1979	-	7.7	8.2	10.8	10.0	8.9	8.8	4.3	4.5	7.7	8.3	7.5	6.0
1980	-	8.6	11.4	9.8	9.8	10.5	9.1	6.3	6.4	5.3	6.4	6.9	5.7
1981 ^{a/}	-	7.6	8.7	9.3	9.4	9.7	8.4	3.6	4.4	5.9	6.8	5.4	5.6
1982 ^{a/}	-	7.8	9.4	9.3	10.4	9.2	8.7	5.2	4.6	5.7	6.2	5.4	5.6
1983 ^{a/}	-	7.2	7.6	8.0	7.6	-	7.4	-	4.3	4.3	5.0	-	4.4
1984 ^{a/}	-	7.2	7.0	8.6	8.0	-	7.7	-	-	7.2	6.7	-	6.7
<u>Fort Bragg</u>													
1971-1975 Average	9.0	8.9	11.1	10.7	11.2	11.4	10.6	4.6	6.3	7.8	9.2	8.1	7.0
1976	8.6	7.6	9.9	9.7	11.6	11.1	9.7	3.8	5.0	5.9	6.0	-	5.1
1977	10.3	9.5	9.8	10.8	10.0	10.1	10.1	4.0	4.2	7.9	8.4	11.0	5.3
1978	7.5	8.3	8.5	8.5	8.4	8.4	8.4	4.0	4.3	4.6	4.6	4.7	4.7
1979	-	8.1	10.6	12.4	10.6	11.3	11.0	4.3	5.2	8.5	8.7	9.7	8.1
1980	-	8.8	11.1	11.2	10.6	10.3	10.7	4.3	6.9	6.2	6.5	6.8	6.3
1981 ^{a/}	-	8.2	10.3	9.7	9.8	9.9	9.4	3.6	4.9	6.0	6.8	7.7	5.6
1982 ^{a/}	7.7	9.7	10.9	9.8	11.5	9.8	10.1	4.0	5.0	6.0	6.5	6.7	6.0
1983 ^{a/}	-	7.0	7.4	7.7	8.3	8.3	7.6	-	4.1	4.6	5.2	-	4.5
1984 ^{a/}	-	7.2	9.9	8.8	8.9	9.6	8.9	-	7.4	7.3	8.1	8.0	7.6
<u>North coast</u>													
1971-1975 Average	8.6	8.6	10.4	9.8	10.7	10.7	9.7	4.4	5.6	7.1	8.8	7.7	6.0
1976	7.9	8.0	9.3	8.2	10.8	10.0	8.6	3.2	4.6	5.8	6.1	7.4	4.4
1977	8.1	8.5	9.3	9.6	10.0	10.0	9.2	4.0	4.8	7.6	8.0	8.2	6.2
1978	8.0	8.2	8.1	8.7	9.6	7.9	8.2	3.2	4.1	5.0	5.4	6.3	4.1
1979	-	7.8	8.7	11.3	10.2	10.4	9.7	4.2	4.6	7.7	8.4	7.9	6.5
1980	-	8.6	11.2	10.9	10.2	10.1	9.8	4.5	4.7	5.7	6.6	7.0	6.0
1981 ^{a/}	-	8.1	10.1	9.3	9.5	9.3	8.9	3.8	4.4	5.9	6.8	6.5	5.4
1982 ^{a/}	7.7	8.3	10.2	9.7	10.4	9.4	9.4	4.1	4.6	5.9	6.4	6.2	5.9
1983 ^{a/}	-	7.2	7.5	7.7	7.9	8.3	7.5	-	4.3	4.4	4.9	-	4.4
1984 ^{a/}	-	7.2	9.8	8.6	8.5	9.6	8.6	-	7.4	7.3	7.0	8.0	7.1

Table D-1. (continued)

Area of Landing	April	May	June	July	Aug.	Sept.	Season	May	June	July	Aug.	Sept.	Season
	<u>CHINOOK</u>						<u>COHO</u>						
<u>San Francisco</u>													
1971-1975 Average	8.7	9.7	11.4	11.9	11.1	11.3	10.7	5.2	6.5	8.7	8.9	8.9	7.4
1976	8.4	6.7	9.2	10.0	11.8	11.5	8.8	4.2	1.9	6.0	6.8	7.5	5.0
1977	8.5	8.1	8.6	10.1	12.1	14.2	9.4	4.5	5.7	7.4	8.4	11.5	6.7
1978	8.3	8.7	8.9	9.0	8.9	8.9	8.7	4.3	4.5	5.2	5.2	5.2	5.2
1979	-	10.2	11.9	14.1	12.8	10.2	12.0	4.8	5.4	8.2	6.8	7.0	6.9
1980	-	8.0	10.6	10.7	11.8	12.7	10.0	5.4	-	6.9	6.8	11.1	7.0
1981 ^{a/}	-	8.8	9.7	11.1	10.6	9.8	10.4	2.6	5.6	5.6	6.7	10.0	6.1
1982 ^{a/}	7.6	8.9	10.1	10.2	10.8	11.0	9.9	3.7	5.4	6.4	6.4	7.2	5.8
1983 ^{a/}	-	6.4	6.9	7.4	8.5	14.5	7.1	3.8	3.7	4.7	5.1	-	4.5
1984 ^{a/}	-	7.7	8.5	9.2	8.7	9.0	8.9	-	7.0	7.8	7.5	10.5	7.6
<u>Monterey</u>													
1971-1975 Average	9.2	10.5	11.2	11.2	12.7	10.9	11.0	4.8	6.7	8.5	10.1	13.3	6.0
1976	7.9	9.6	9.6	10.7	14.2	12.5	10.2	4.3	5.0	6.7	8.2	-	5.1
1977	9.2	9.0	9.6	11.6	13.4	9.3	10.1	4.4	4.6	6.7	7.0	-	5.4
1978	8.3	8.9	8.6	9.2	9.4	9.3	9.3	4.2	3.8	4.1	4.1	4.2	4.2
1979	-	9.7	11.6	13.3	12.4	10.4	11.1	5.3	5.9	8.9	7.7	7.6	6.5
1980	-	8.4	11.8	11.1	12.8	12.1	10.6	4.0	6.8	6.2	7.5	6.6	6.9
1981 ^{a/}	-	8.5	-	10.8	11.2	8.4	10.1	-	-	-	-	-	-
1982 ^{a/}	8.4	9.3	10.1	11.1	10.9	11.8	10.0	4.7	4.4	2.5	4.9	6.7	4.1
1983 ^{a/}	-	6.4	6.8	7.8	8.3	-	6.9	1.7	4.0	5.0	-	-	4.1
1984 ^{a/}	-	8.0	8.6	9.6	9.7	9.0	8.4	-	6.3	8.0	8.3	-	6.6
<u>Southcoast</u>													
1971-1975 Average	8.8	10.0	11.3	11.7	11.5	11.2	10.8	5.0	6.5	8.7	9.0	9.2	7.1
1976	8.2	7.9	9.4	10.3	13.3	11.8	9.3	4.2	4.9	6.4	6.8	7.5	5.0
1977	8.7	8.4	9.0	10.4	12.6	12.9	9.5	4.4	5.4	7.3	8.1	11.5	6.4
1978	8.3	8.9	8.7	10.3	9.6	8.5	9.1	4.2	4.3	6.7	5.2	5.0	4.9
1979	8.6	10.0	11.8	13.9	12.7	10.2	11.8	5.1	5.5	8.3	6.8	7.0	6.8
1980	-	8.2	11.2	10.8	12.3	12.5	10.1	5.1	6.9	6.9	7.2	10.1	7.0
1981 ^{a/}	-	8.7	9.7	11.0	10.7	9.7	10.3	1.6	5.6	5.1	6.6	10.0	5.7
1982 ^{a/}	8.2	9.0	10.1	10.6	10.8	11.2	9.9	3.9	5.3	6.2	6.3	7.2	5.7
1983 ^{a/}	-	6.4	6.8	7.6	8.4	14.5	7.0	2.9	3.8	4.8	5.1	-	4.5
1984 ^{a/}	-	8.0	8.6	9.2	8.8	9.0	8.7	-	6.7	7.8	7.6	10.5	7.4
<u>Statewide</u>													
1971-1975 Average	8.8	9.2	10.7	10.4	11.3	11.1	10.2	4.5	5.7	7.3	8.8	8.1	6.1
1976	8.2	8.0	9.3	8.6	12.3	11.3	9.2	3.5	4.7	5.9	6.2	7.5	4.6
1977	8.5	8.5	9.1	9.9	10.7	11.2	9.4	4.0	4.9	7.6	8.0	8.8	6.3
1978	8.1	8.5	8.4	9.5	8.7	8.3	8.6	3.2	4.1	5.1	5.4	6.1	4.1
1979	8.4	8.6	10.4	12.1	10.6	10.3	10.4	4.2	4.6	7.7	8.1	7.6	6.5
1980	-	8.4	11.2	10.8	11.2	10.8	10.0	4.6	4.9	5.7	6.6	7.1	6.1
1981 ^{a/}	-	8.2	10.1	10.6	9.8	9.4	9.4	3.7	4.4	5.9	6.8	6.6	5.4
1982 ^{a/}	8.0	8.5	10.2	9.9	10.5	9.8	9.6	4.0	4.8	5.9	6.4	6.3	5.9
1983 ^{a/}	-	6.8	7.4	7.7	8.1	9.1	7.3	2.9	4.3	4.4	4.9	-	4.4
1984 ^{a/}	-	7.6	8.8	8.9	8.7	9.5	8.7	-	6.7	7.8	7.1	8.1	7.3

a/ Average weights for 1981-1984 were calculated using field sample data and may be different from average weights calculated using dealer reported weight and numbers for the same year.

Table D-2. Monthly Oregon commercial troll chinook and coho salmon average dressed weights.

Year	May	June	July	Aug.	Sept.	Oct.	Nov.	Total
<u>Chinook</u>								
1976	10.2	10.3	10.8	10.5	9.7	10.6	11.7	10.4
1977	8.8	10.5	10.5	10.0	9.4	11.0	14.1	10.2
1978	9.6	9.8	9.9	9.2	9.5	12.0	18.5	9.9
1979	11.9	9.9	11.0	10.2	10.9	9.0	16.3	10.5
1980	10.7	10.5	10.6	10.3	9.8	9.9	16.4	10.4
1981	9.2	9.1	10.7	9.8	8.6	10.5	14.4	9.8
1982	9.4	10.4	10.4	10.0	8.8	9.8	12.9	10.1
1983	8.8	8.0	7.9	7.8	8.8	10.1	11.7	8.2
1984 ^{a/}	8.6	8.5	8.5	8.2	9.2	16.6	16.6	8.5
<u>Coho</u>								
1971-1975 Average		5.1	6.1	7.0	7.2	7.9		6.2
1976	-	4.1	5.0	5.8	5.7	6.2	-	5.0
1977	-	4.6	6.0	7.1	6.6	7.6	-	5.9
1978	-	4.4	4.5	5.1	4.9	5.2	-	4.5
1979	-	-	6.3	6.8	6.2	-	-	6.4
1980	-	-	5.5	5.9	6.1	-	-	5.7
1981	-	-	4.8	6.0	-	-	-	5.4
1982	-	-	5.2	5.6	-	-	-	5.2
1983	-	-	3.4	3.8	3.6	-	-	3.4
1984 ^{a/}	-	-	-	5.1	-	-	-	5.1

a/ Preliminary.

Table D-3. Monthly Washington commercial troll chinook and coho salmon average dressed weights. a/

Year	May		June		July		August		September		October		Season ^{c/}	
	Treaty	Non-treaty	Treaty	Non-treaty	Treaty	Non-treaty	Treaty	Non-treaty	Treaty	Non-treaty	Treaty	Non-treaty	Treaty	Non-treaty
1971-1975 Average			4.2		5.1		6.4		7.1		8.5		5.6	
1976			3.6		4.2		5.2		5.6		6.5		4.2	
1977			4.1		4.6		5.7		6.5		6.9		5.2	
1978			3.8		3.9		5.2		5.8		6.5		4.6	
1979	2.6	-	3.3	4.8	4.7	4.8	5.8	6.4	5.7	6.8	-	3.9	5.5	
1980	2.5	-	3.4	-	4.3	4.8	5.7	6.0	6.9	5.7	-	3.7	5.2	
1981	1.7	-	2.9	-	3.9	4.7	4.7	4.7	5.9	5.9	-	4.5	4.3	
1982	2.2	-	3.5	-	4.2	4.2	5.3	4.1	6.5	4.9	-	5.3	5.0	
1983 ^{b/}	2.8	-	3.3	-	4.0	5.0	4.0	4.0	4.8	-	-	4.1	4.2	
1984 ^{b/}	-	-	-	-	3.1	-	5.0	4.5	5.1	-	6.5	-	4.2	4.5
<u>COHO</u>														
<u>CHINOOK</u>														
1979	9.5	10.5	12.0	11.3	15.4	12.4	14.2	12.7	5.4	9.6	6.8	-	6.2	11.9
1980	10.9	12.0	12.6	-	12.5	13.2	14.2	13.5	10.9	13.1	6.7	-	7.3	13.0
1981	7.3	10.2	9.8	-	10.4	12.8	11.0	13.0	8.1	-	5.7	-	6.7	11.4
1982	8.9	9.7	8.0	-	10.2	12.9	8.4	14.0	5.9	13.6	5.5	-	7.0	11.2
1983 ^{b/}	7.1	9.9	8.5	-	9.6	11.8	7.8	12.3	7.2	11.7	5.1	-	6.1	10.5
1984 ^{b/}	6.6	9.1	8.8	-	8.1	-	8.6	10.7	8.0	-	4.4	-	5.3	9.4

a/ Split between treaty and non-treaty beginning in 1979.
 b/ Preliminary.
 c/ Season totals include additional winter treaty troll.

Table D-4. Commercial landings (dressed wt.) and value (\$) of salmon to California, and number of registered vessels making commercial salmon landings.^{a/}

Year	Pounds Landed	Ex-Vessel Value	Vessels Landing Salmon	Nominal Average Ex-Vessel Value/Vessel	Real Average Ex-Vessel Value/Vessel ^{b/}
1960	6,221,000	\$3,339,000	1,365	\$2,450	\$3,570
1961	8,638,000	4,698,000	1,615	2,910	4,200
1962	6,673,000	4,023,000	1,563	2,570	3,640
1963	7,849,000	3,959,000	1,611	2,460	3,430
1964	9,481,000	5,013,000	1,774	2,830	3,890
1965	9,674,000	4,989,000	2,001	2,490	3,350
1966	9,447,000	4,845,000	1,929	2,510	3,270
1967	7,402,000	3,945,000	2,137	1,850	2,340
1968	6,952,000	4,014,000	2,249	1,780	2,160
1969	6,151,000	3,843,000	2,125	1,810	2,090
1970	6,629,000	5,101,000	2,065	2,470	2,700
1971	8,117,000	4,757,000	2,221	2,140	2,230
1972	6,423,000	4,830,000	2,392	2,020	2,020
1973	9,669,000	8,991,000	2,848	3,160	2,990
1974	8,749,000	8,013,000	3,185	2,520	2,190
1975	6,925,000	6,972,000	3,150	2,210	1,760
1976	7,788,000	10,707,000	3,526	3,040	2,300
1977 ^{c/}	5,930,000	12,074,000	3,797	3,180	2,270
1978	6,804,000	11,001,000	4,919	2,240	1,490
1979	8,746,000	21,870,000	4,593	4,290	2,640
1980	6,019,000	13,141,000	4,738	2,770	1,550
1981	6,037,000	15,020,000	4,101	3,660	1,870
1982 ^{c/}	7,907,000	19,489,000	3,767 (5,964) ^{d/}	5,170	2,500
1983 ^{c/}	2,308,000	4,609,000	3,216 (4,617) ^{d/}	1,430	665
1984 ^{c/}	2,970,000	7,885,000	2,570 (4,180) ^{d/}	3,070	1,370

a/ Derived from vessel registrations and fish landing tickets.

b/ Using Implicit GNP Price Deflator.

c/ Preliminary.

d/ Number of commercial salmon vessel permits issued.

Table D-5. Number of vessels landing troll caught salmon in Oregon, 1974-1984.

Year	Number of Vessels	
1974	2,253	
1975	2,304	
1976	2,770	
1977	3,108	
1978	3,158	
1979	3,114	
1980 ^{a/}	3,875	(4,314) ^{b/}
1981	3,615	(3,926) ^{b/}
1982	3,269	(3,646) ^{b/}
1983	2,948 ^{c/}	(3,437) ^{c/}
1984	771 ^{d/}	(3,197) ^{c/}

a/ The establishment of a restricted vessel permit system drew a number of historically active vessels back into the fishery in 1980.

b/ Numbers of vessels holding permits for troll salmon fishing under the state license moratorium, but not necessarily landing salmon, are noted in parentheses.

c/ Preliminary.

d/ Vessels were not required to land one salmon in 1984 to be eligible for a permit in 1985. The ODFW Commission waived this requirement because of the elimination of the coho fishery south of Cape Falcon.

Table D-6. Number of vessels landing troll caught salmon in Washington, 1978-1984.

Year	Number of Vessels	Landings in Dressed Pounds
1978	3,041	4,775,843
1979	2,778	7,785,595
1980	2,626	3,409,198
1981	2,439	3,590,713
1982	2,253	2,673,793
1983	2,045	936,145
1984 ^{a/}	381	(2,109 ^{b/}) 201,001

a/ Preliminary.

b/ Total number of troll permits and vessel delivery permits issued. Of these, 1,587 troll permits and 94 vessel deliver permits participated in the voluntary suspension program in 1984. 147 troll permits and 10 vessel delivery permits were purchased in the state buy-back program.

Table D-7. California commercial salmon troll boat-size catch statistics, 1974-1984 (pounds-dressed).

Year ^a / Catch	Length	Vessels		Catch		
	Category (ft)	Number ^c / Percentage	Percentage	Average Catch/ Boat (lbs.)	Total Catch (lbs.)	Percent of Total
1984 ^b / Catch	20 ≤	311	13	420	130,705	4
	21-25	644	25	489	314,680	11
	26-30	479	19	741	355,049	12
	31-35	274	11	1,293	354,190	12
	36-40	428	11	1,754	750,498	25
	41-45	211	8	2,559	539,983	18
	46-50	152	6	2,427	368,952	12
	51-55	29	1	3,088	89,566	3
	56-60	29	1	1,733	50,246	2
	61-65	10	<1	1,089	10,891	<1
	66-70	1	<1	73	73	<1
Unknown	2	<1	1,977	3,954	<1	
Totals		2,570			2,968,787	
1983 ^b / Catch	20 ≤	464	14	341	158,155	7
	21-25	826	26	385	318,203	13
	26-30	554	17	542	300,446	12
	31-35	331	10	894	295,977	12
	36-40	506	16	1,175	594,343	25
	41-45	252	8	1,419	357,553	15
	46-50	178	6	1,388	247,136	10
	51-55	49	2	1,668	81,708	3
	56-60	33	1	1,114	36,761	2
	61-65	13	<1	887	11,533	<1
	66-70	1	<1	11	11	<1
≥71	6	<1	34	202	<1	
Totals		3,216			2,404,097	
1982	20 ≤	636	16	598	388,945	5
	21-25	994	25	758	813,301	10
	26-30	659	17	1,265	876,166	11
	31-35	404	10	2,094	928,444	12
	36-40	624	15	3,178	2,050,256	26
	41-45	314	8	4,339	1,396,034	17
	46-50	224	5	4,187	1,005,148	13
	51-55	77	2	4,083	319,311	4
	56-60	46	1	3,034	146,307	<1
	61-65	22	<1	2,110	53,259	<1
	66-70	4	<1	370	2,116	<1
≥ 71	7	<1	399	4,692	<1	
Unknown	2	<1		10,268		
Totals		4,013			7,994,297	
1981	20 ≤	705	17	386	272,134	5
	21-25	1,012	25	552	558,711	9
	26-30	667	16	1,012	674,872	11
	31-35	393	10	1,798	706,559	12
	36-40	615	15	2,779	1,708,968	28
	41-45	301	7	3,578	1,077,101	18
	46-50	238	6	2,794	655,040	11
	51-55	79	2	2,833	223,808	4
	56-60	55	1	1,997	109,830	2
	61-65	23	<1	1,414	32,541	<1
	66-70	4	<1	140	561	<1
≥ 71	7	<1	175	1,223	<1	
Unknown	2		1,930	3,860	<1	
Totals		4,101			6,035,190	

Table D-7. continued

Year ^{a/}	Length	Vessels		Catch		
	Category (ft)	Number ^{c/}	Percentage	Average Catch/ Boat (lbs.)	Total Catch (lbs.)	Percent of Total Catch
1980	20 ≤	899	19	295	265,227	4
	21-25	1,207	26	498	600,980	10
	26-30	751	16	940	705,880	12
	31-35	449	10	1,557	699,165	12
	36-40	652	14	2,271	1,480,781	25
	41-45	324	7	3,140	1,017,350	17
	46-50	252	5	2,989	753,176	12
	51-55	91	2	2,610	237,517	4
	56-60	63	1	2,710	170,761	3
	61-65	29	<1	1,791	51,947	1
	66-70	9	<1	156	1,404	<1
	≥ 71	9	<1	70	627	<1
Unknown	3	<1	11,113	33,338	<1	
Total		4,738			6,018,153	
1979	20 ≤	1,049	22	545	571,611	7
	21-25	1,168	25	736	859,388	10
	26-30	690	15	1,275	879,448	10
	31-35	416	9	2,298	955,860	11
	36-40	615	13	3,647	2,242,923	26
	41-45	296	6	4,957	1,467,126	17
	46-50	205	4	5,105	1,046,621	12
	51-55	76	1	5,308	403,372	5
	56-60	46	1	5,063	232,901	3
	61-65	17	<1	3,317	56,393	1
	66-70	9	<1	1,110	9,987	<1
	≥ 71	5	<1	334	1,669	<1
Unknown	2	<1	8,444	16,887	<1	
Totals		4,594			8,744,186	
1978	20 ≤	1,233	25	447	550,850	8
	21-25	1,162	24	614	713,895	11
	26-30	700	14	1,143	800,217	12
	31-35	431	9	1,753	755,539	11
	36-40	650	13	2,516	1,635,382	24
	41-45	328	6	2,957	969,740	14
	46-50	233	5	3,614	842,111	12
	51-55	83	2	3,693	306,524	5
	56-60	62	1	2,819	174,789	3
	61-65	19	<1	2,022	38,426	<1
	66-70	9	<1	344	3,095	<1
	≥ 71	7	<1	198	1,385	<1
Unknown	2	<1	5,916	11,832	<1	
Totals		4,919			6,803,783	
1977	20 ≤	871	21	466	406,906	7
	21-25	856	21	612	524,056	9
	26-30	556	13	1,229	722,182	12
	31-35	364	9	1,964	714,956	12
	36-40	529	13	2,568	1,358,628	23
	41-45	251	6	3,550	891,169	15
	46-50	157	4	4,033	633,247	11
	51-55	58	1	4,558	264,391	4
	56-60	55	1	2,716	149,395	3
	61-65	22	1	1,271	27,968	<1
	66-70	3	<1	990	2,969	<1
	≥ 71	4	<1	2,169	8,667	<1
Unknown	395	10	569	224,899	4	
Totals		4,121			5,929,433	

a/ Derived from vessel registrations and fish landing tickets.

b/ Preliminary.

c/ Number of boats include only those recording pounds greater than zero.

Table D-8. Oregon salmon troll boat-size catch statistics (pounds of fish), 1978-1984.

Year	Length Category (feet)	Vessels		Poundage	
		Number ^{b/}	Percentage	Number	Percentage
1984 ^{a/}	< 20	15	2.0	2,111	0.4
	20-29	301	39.0	119,823	19.3
	30-39	260	33.7	260,983	42.0
	40-49	155	20.1	199,972	32.2
	≥ 50	33	4.3	32,927	5.3
	No length given	7	0.9	5,004	0.8
TOTAL		771		620,820	
1983	< 20	96	3.3	18,884	1.1
	20-29	1,559	52.8	538,997	30.7
	30-39	687	23.3	631,596	36.0
	40-49	421	14.3	458,043	26.1
	≥ 50	166	5.6	90,047	5.1
	no length given	22	0.7	15,406	0.9
TOTAL		2,951		1,752,973	
1982	< 20	115	3.5	53,528	1.1
	20-29	1,656	50.7	1,403,485	27.8
	30-39	760	23.2	1,757,422	34.8
	40-49	495	15.1	1,368,158	27.1
	≥ 50	205	6.3	434,457	8.6
	no length given	38	1.2	40,234	0.8
TOTAL		3,269		5,057,284	
1981	< 20	138	3.8	57,187	1.1
	20-29	1,787	49.3	1,661,845	31.9
	30-39	834	23.1	1,859,471	35.6
	40-49	569	15.7	1,323,819	25.4
	≥ 50	235	6.5	268,036	5.1
	no length given	52	1.4	37,393	0.7
TOTAL		3,615		5,215,715	
1980	< 20	172	4.4	35,745	0.8
	20-29	1,909	49.3	1,056,819	24.6
	30-39	865	22.3	1,502,453	35.0
	40-49	640	16.5	1,340,416	31.2
	≥ 50	269	6.9	343,213	8.0
	no length given	20	0.5	14,982	0.3
TOTAL		3,875		4,293,628	
1979	< 20	129	4.1	95,119	1.3
	20-29	1,567	49.4	2,149,194	29.6
	30-39	718	22.6	2,401,024	33.0
	40-49	493	15.5	2,015,614	27.7
	≥ 50	177	5.6	532,875	7.3
	no length given	90	2.8	78,773	1.1
TOTAL		3,174		7,272,599	
1978	< 20	155	4.7	73,470	1.2
	20-29	1,599	48.3	1,451,587	31.2
	30-39	730	22.1	1,585,081	34.0
	40-49	481	14.5	1,111,362	23.8
	≥ 50	185	5.6	381,883	8.2
	no length given	158	4.8	56,422	1.2
TOTAL		3,308		4,659,805	

a/ Preliminary.

b/ Includes only vessels with permits for 1980 to present.

Table D-9. Washington salmon troll boat-size catch statistics (pounds of fish), 1978-1984.

Year	Length Category (feet)	Vessels		Poundage	
		Number	Percentage	Number	Percentage
1984 ^{a/}	< 20	16	4.2	3,862	1.9
	20-29	148	38.8	31,273	15.6
	30-39	104	27.3	76,186	37.9
	40-49	91	23.9	76,298	38.0
	≥ 50	11	2.9	6,747	3.4
	Unknown	11	2.9	6,635	3.3
TOTAL		381		201,001	
1983	< 20	127	6.2	12,615	1.4
	20-29	977	47.8	140,057	15.0
	30-39	450	22.0	351,408	37.5
	40-49	253	12.4	350,277	37.4
	≥ 50	75	3.7	36,543	3.9
	Unknown	163	8.0	45,245	4.8
TOTAL		2,045		936,145	
1982	< 20	159	7.1	47,417	1.8
	20-29	1,120	49.7	458,104	17.1
	30-39	550	24.4	910,175	34.0
	40-49	309	13.7	1,112,438	41.6
	≥ 50	88	3.9	135,857	5.1
	Unknown	27	1.2	9,805	<1
TOTAL		2,253		2,673,793	
1981	< 20	155	6.4	66,751	1.9
	20-29	1,171	48.0	786,251	21.9
	30-39	610	25.0	1,262,746	35.2
	40-49	341	14.0	1,222,774	34.1
	≥ 50	106	4.4	218,151	6.1
	Unknown	56	2.3	34,040	1.0
TOTAL		2,439		3,590,713	
1980	< 20	170	6.5	57,043	1.7
	20-29	1,299	49.5	534,604	15.7
	30-39	653	25.0	1,081,402	31.7
	40-49	370	14.1	1,372,662	40.3
	≥ 50	112	4.3	298,042	8.8
	Unknown	22	<1	65,445	1.9
TOTAL		2,626		3,409,198	
1979	< 20	165	6.0	123,014	1.6
	20-29	1,297	46.7	1,486,895	19.1
	30-39	676	24.3	2,652,928	34.1
	40-49	407	14.7	2,850,539	36.6
	≥ 50	134	4.8	599,661	7.7
	Unknown	99	3.6	72,558	1.0
TOTAL		2,778		7,785,595	
1978	< 20	253	8.3	108,421	2.3
	20-29	1,407	46.3	824,533	17.3
	30-39	716	23.5	1,524,774	31.9
	40-49	426	14.0	1,723,090	36.1
	≥ 50	149	4.9	530,852	11.1
	Unknown	90	3.0	64,173	1.3
TOTAL		3,041		4,775,843	

a/ Preliminary

Table D-10. California ocean commercial salmon landings statistics including salmon fleet size and number of vessels landing 50 percent and 90 percent of total landings.

Year	Total Vessels	Number Vessels Landing		Total Pounds
		50 Percent ^{c/}	90 Percent ^{c/}	
1977 ^{a/}	3,797	NA ^{b/}	NA	5,930,000
1978	4,919	542 (11.0%)	2,024 (41.1%)	6,803,832
1979	4,594	373 (8.1%)	1,641 (35.7%)	8,745,769
1980	4,738	431 (9.1%)	1,733 (36.6%)	6,019,398
1981	4,101	395 (9.6%)	1,599 (39.0%)	6,036,586
1982 ^{a/}	3,767	NA	NA	7,907,000
1983 ^{a/}	3,216 ^{a/}	353 (11.0%)	1,268 (39.4%)	2,405,408
1984 ^{a/}	2,570 ^{a/}	213 (8.3%)	918 (35.7%)	2,969,784

a/ Preliminary.

b/ Not available.

c/ Percentage of total fleet in parenthesis.

Table D-11. Number of vessels landing 50 percent and 90 percent of total Oregon salmon troll catch each year, 1974-1984.

Year	Total Vessels ^{a/}	Number Landing 50% lbs. ^{a/}	Number Landing 90% lbs. ^{a/}
1974	1,914	326 (17.0%)	1,032 (53.9%)
1975	1,979	329 (16.6%)	1,054 (53.3%)
1976	2,770	453 (16.4%)	1,460 (52.7%)
1977	3,108	473 (15.2%)	1,597 (51.4%)
1978	3,157	446 (14.1%)	1,576 (49.9%)
1979	3,114	423 (13.6%)	1,449 (46.5%)
1980	3,875	372 (9.6%)	1,375 (35.5%)
1981	3,615	420 (11.6%)	1,391 (38.5%)
1982	3,269	359 (11.0%)	1,249 (38.2%)
1983	2,951	294 (10.0%)	1,082 (36.7%)
1984 ^{b/}	771	88 (11.4%)	333 (43.2%)

a/ Includes licensed (permitted for 1980-1983) and properly identified vessels only. Total poundage on which the numbers are based is not equal to total aggregate troll landings because of landings by unlicensed or misidentified vessels. Percentages of total pounds not credited to licensed vessels were: 1974-19%; 1975-19%; 1976-9.4%; 1977-8.0%; 1978-1.4%; 1979-0.2%; 1980-1.7%; 1981-.11%; 1982-.05%; 1983-.03%; 1984-0.00%.

b/ Preliminary.

Table D-12. Yearly number of vessels landing 50 percent and 90 percent (by numbers of fish) of the total Washington troll salmon catch, 1979-1984.

Year	Total Vessels	Number landing 50% ^{a/}	Number landing 90% ^{b/}
1978	3,041	223 (7.3%)	1,040 (34.2%)
1979	2,778	253 (9.1%)	946 (34.1%)
1980	2,626	206 (7.8%)	883 (31.7%)
1981	2,439	214 (8.8%)	810 (33.2%)
1982	2,253	181 (8.0%)	703 (31.2%)
1983 ^{a/}	2,056	75 (3.6%)	409 (19.9%)
1984 ^{a/}	374	55 (20.1%)	180 (65.7%)

a/ Preliminary

b/ Percentage of total fleet in parentheses.

Table D-13. Vessels landing salmon in California by length and home state--combined north coast and south coast, 1978-1984.

Home State ^{a/}	Length	1977	1978	1979	1980	1981	1982	1983 ^{b/}	1984 ^{b/}
California	<26	1,655	2,325	2,243	2,069	1,659	1,554	1,265	928
	26-36 ^{c/}	976	1,165	1,152	1,248	1,126	1,076	907	830
	>36 ^{d/}	741	1,006	980	1,138	1,022	884	740	685
	Sub-total	3,372	4,496	4,375	4,455	3,807	3,514	2,882	2,443
Oregon	<26	49	97	68	97	70	61	41	27
	26-36 ^{c/}	77	176	158	163	139	121	88	55
	>36 ^{d/}	153	262	210	228	234	195	122	109
	Sub-total	279	535	436	488	443	377	251	191
Washington	<26	2	5	3	6	3	2	0	5
	26-36 ^{c/}	3	16	20	25	16	17	6	17
	>36 ^{d/}	30	85	59	90	72	59	14	42
	Sub-total	35	106	82	121	91	78	46 ^{c/}	64
Total	<26	1,726	2,462	2,338	2,189	1,746	1,629	1,320	969
	26-36 ^{c/}	1,059	1,365	1,338	1,447	1,291	1,225	1,014	908
	>36 ^{d/}	940	1,378	1,266	1,478	1,347	1,156	909	847
Grand Total ^{e/f/g/}		3,725	5,209	4,947	5,119	4,389	4,012	3,216	2,729

a/ "Home state" refers to the declared state of residence of vessel skipper, who, in most cases, was also the vessel owner.

b/ Preliminary

c/ Length category for 1981 is 26-35.

d/ Length category for 1982 is ≥ 36 .

e/ Includes several vessels of unknown length.

f/ These total are somewhat inflated due to the fact that individual boats may stop both at north and south ports and therefore are counted twice. Includes 31 vessels with home state other than California, Oregon, or Washington and 5 vessels of unknown length.

g/ These totals also include a number of vessels with home states other than California, Oregon, or Washington and several vessels of unknown length. The number year are as follows: 1977, 39 other home states, 395 unknown; 1978, 72 other home states, 5 unknown; 1979, 54 other home states, 5 unknown; 1980, 55 other home states, 5 unknown; 1981, 48 other home states, 5 unknown; 1982, 41 other home states, 2 unknown; 1983, 37 other home states; 1984, 31 other home states and 5 unknown length.

Table D-14. Vessels landing salmon by home state and vessel length. South coast of California (Fort Bragg--south only) 1978-1984.

Home State	Length	1977	1978	1979	1980	1981	1982	1983 ^{b/}	1984 ^{b/}
California	<26	1,114	1,465	1,422	1,454	1,177	1,152	891	722
	26-36	812	914	919	1,008	901	906	766	684
	>36	<u>572</u>	<u>691</u>	<u>632</u>	<u>793</u>	<u>720</u>	<u>738</u>	<u>640</u>	<u>551</u>
Sub-total		2,498	3,070	2,973	3,255	2,798	2,796	2,298 ^{c/}	1,957
Oregon	<26	10	16	7	14	10	10	58	4
	26-36	18	21	15	19	14	29	55	9
	>36	<u>38</u>	<u>46</u>	<u>24</u>	<u>40</u>	<u>36</u>	<u>82</u>	<u>85</u>	<u>47</u>
Sub-total		66	83	46	73	60	121	198	60
Washington	<26	2	2	0	2	1	2	13	3
	26-36	1	3	4	4	3	7	9	8
	>36	<u>15</u>	<u>17</u>	<u>8</u>	<u>21</u>	<u>14</u>	<u>26</u>	<u>15</u>	<u>16</u>
Sub-total		18	22	12	27	18	35	37	27
Total	<26	1,128	1,487	1,435	1,474	1,191	1,168	971	732
	26-36	833	945	944	1,039	925	951	841	707
	>36	<u>636</u>	<u>768</u>	<u>676</u>	<u>867</u>	<u>781</u>	<u>859</u>	<u>759</u>	<u>623</u>
Grand Total ^{c/d/}		2,812	3,202	3,057	3,382	2,898	2,979	2,574	2,064

a/ "Home state" refers to the declared state of residence of vessel skipper, who, in most cases, was also the vessel owner.

b/ Preliminary.

c/ Includes several vessels of unknown length.

d/ Totals include the following vessels with home states other than California, Oregon, or Washington: 1977, 15 vessels; 1978, 27 vessels; 1979, 26 vessels; 1980, 27 vessels; 1981, 22 vessels; 1982, 27 vessels; 1983, 41 vessels; 1984, 20 vessels.

Table D-15. Vessels landing salmon by home state and length of vessel. North coast of California (Crescent City--Eureka only), 1978-1984.

State ^{a/}	Length	1972-1975											1983 ^{b/}	1984 ^{b/}
		Average	1976	1977	1978	1979	1980	1981	1982	1983 ^{b/}	1984 ^{b/}			
CA	<25	378	455	583	860	818	610	480	439	366	204			
	26-36	147	165	218	251	233	238	221	218	238	138			
	>36	154	216	295	315	348	343	302	267	278	128			
	Sub-total	679	836	1,096	1,426	1,399	1,191	1,003	924	882	470			
OR	<25	25	24	43	81	61	83	60	56	49	23			
	26-36	76	106	69	155	143	144	125	114	37	45			
	>36	119	144	42	216	186	188	198	171	81	62			
	Sub-total	220	274	254	452	390	415	383	341	167	130			
WA	<25	0	0	0	3	3	4	2	2	4	2			
	26-36	3	2	2	13	16	21	13	17	11	9			
	>36	40	25	26	68	51	68	58	55	22	25			
	Sub-total	43	27	28	84	70	93	73	74	37	36			
Total	<25	403	479	644	975	900	710	553	505	433	235			
	26-36	226	273	290	420	394	406	362	352	287	192			
	>36	313	385	192	610	590	607	566	499	386	217			
	Grand Total ^{c/d/}	942	1,137	1,597 ^{d/}	2,007	1,886	1,726	1,483	1,358	1,107	646			

a/ "Home state" refers to the declared state of residence of vessel skipper, who, in most cases, was also the vessel owner.

b/ Preliminary.

c/ These totals include several vessels with home states other than California, Oregon, or Washington. By year, the number included are as follows: 1977, 27 vessels; 1978, 45 vessels; 1979, 27 vessels; 1980, 27 vessels; 1981, 48 vessels; 1982, 19 vessels; 1984, 10 vessels.

d/ Include several vessels of unknown length.

Table D-16. Percentages of vessels landing troll salmon in Oregon by license holder's state of residence, 1977-1984.

Year	Oregon	California	Washington	Other/Unknown
1977	83.8	6.9	8.7	0.6
1978	83.6	5.9	10.0	0.5
1979	82.5	6.5	10.3	0.7
1980	80.4	8.5	9.6	1.5
1981	81.2	7.4	9.9	1.6
1982	82.1	6.3	10.2	1.4
1983	85.0	3.9	10.1	1.0
1984 ^{a/}	85.2	2.9	11.0	0.9

a/ Preliminary.

Table D-17. Percentages of vessels landing troll salmon in Washington by license holder's state of residence, 1978-1984.

Year	Washington	Oregon	California	Alaska	Other/Unknown
1978	90.8	4.6	0.3	0.2	4.1
1979	90.9	3.8	0.3	0.3	4.7
1980	93.7	3.6	0.3	0.3	2.1
1981	92.6	3.0	0.4	0.2	3.8
1982	92.6	4.1	0.6	-	2.8
1983	92.7	2.8	0.2	0.1	4.2
1984	94.8	1.6	0.0	0.0	3.7

Table D-18. Average annual wholesale prices of No. 2 diesel fuel, 1975-83.

Year	GNP Price Deflator	Nominal Price/Gallon (¢)	Real Price/Gallon (¢)
1975 ^{a/}	125.6	30.8	24.5
1976	132.1	31.9	24.1
1977	139.8	36.1	25.8
1978	150.0	37.1	24.7
1979	162.8	58.2	35.7
1980	178.6	81.2	45.5
1981	195.5	98.5	50.4
1982 ^{b/}	206.9	92.7	44.8
1983	215.6	82.6	38.4
1984 ^{b/}	223.4	82.6	37.0

a/ July - December average only.

b/ Preliminary data - December not included.

Source: National Energy Information Center, U.S. Department of Energy.

Table D-19. California ocean recreational catch (number of fish) and effort (angler trips) by boat type, 1976-1984 with 1971-1975 average.

Year	Angler Trips		Chinook Catch		Coho Catch	
	Charter	Skiff	Charter	Skiff	Charter	Skiff
1971-1975 Average	102,500	139,300	105,500	64,100	12,200	36,100
1976	75,200	107,000	50,600	30,400	15,300	42,600
1977	80,500	101,700	54,600	49,400	2,400	11,800
1978	52,800	103,000	42,000	34,100	3,600	41,000
1979	78,600	85,000	71,800	40,600	2,000	14,500
1980	69,200	79,200	62,900	22,500	1,700	20,400
1981 ^{a/}	61,100 ^{b/}	66,900	59,500 ^{b/}	24,200	200 ^{b/}	9,500
1982 ^{a/}	80,300 ^{b/}	90,100	102,000 ^{b/}	47,200	1,600 ^{b/}	22,800
1983 ^{a/}	46,200 ^{b/}	65,400	44,800 ^{b/}	17,300	200 ^{b/}	26,700
1984 ^{a/}	57,600 ^{b/}	66,000	69,700 ^{b/}	19,600	200 ^{b/}	18,200

a/ Preliminary.

b/ Includes San Francisco area charterboats only.

Table D-20. Oregon ocean recreational catch (numbers of fish) and effort (angler trips) by boat type, 1979-1984^{a/}.

Year	Angler Trips		Chinook Catch		Coho Catch	
	Charter	Pleasure	Charter	Pleasure	Charter	Pleasure
1979	73,700	187,700	5,400	13,300	59,800	101,800
1980	79,000	218,900	5,100	11,900	98,300	207,500
1981	65,400	242,600	6,600	22,200	64,500	135,300
1982	43,300	182,700	8,200	30,600	48,500	126,700
1983	41,900	184,100	4,700	20,000	39,700	107,200
1984 ^{b/}	24,300	128,700	2,200	14,800	27,300	96,100
1979-1984 Average	54,600	190,783	5,367	18,800	56,400	129,100

a/ Salmon data from surveyed ports only. For 1979-1980 this includes: Astoria, Garibaldi, Depoe Bay, Newport, Winchester Bay, Coos Bay, Gold Beach, and Brookings. In 1981-1984, Pacific City and Florence were also surveyed.

b/ Preliminary.

Table D-21. Washington ocean recreational salmon catch (numbers of fish) and effort (angler trips by boat type), 1979-1984^{a/}.

Year	Angler Trips		Chinook		Coho		Pink	
	Charter	Private	Charter	Private	Charter	Private	Charter	Private
1979	220,800	89,800	61,100	15,700	227,900	62,400	9,400	8,300
1980	193,900	86,200	41,100	12,500	288,400	73,100	100	-
1981	162,200	74,600	62,800	21,700	182,400	55,500	4,600	5,600
1982 ^{b/}	131,900	86,800	85,800	21,000	124,000	82,500	-	-
1983 ^{b/}	123,000	90,400	39,100	9,500	122,600	89,200	700	3,800
1984 ^{c/}	18,300	18,000	1,700	5,300	21,000	19,000	-	-
1979-1983 Average	166,400	85,600	58,000	16,100	189,100	72,500	4,900	5,900

a/ Source: Washington ocean salmon sampling program.

b/ These values include some inriver Columbia River fishing after closure of the ocean fishery.

c/ Includes ocean recreational effort only.

Table D-22. Number of charter boats licensed in Oregon.

Year	Total Number Licensed Charterboats	Licensed by Oregon Residents	Licensed by Washington Residents	Licensed by Residents of Other States
1980	194	192	2	0
1981	248	213	34	1
1982	253	212	40	1
1983	255	206	47	2
1984 ^{a/}	218	185	31	2

a/ Preliminary.

Table D-23. Washington charterboat licenses, 1975-1984.

Year	Number of Licenses Issued
1975	404
1976	427
1977 ^{a/}	569
1978	535
1979	516
1980	510
1981	478
1982	414
1983	363
1984	355 ^{b/c/}

a/ First year moratorium in effect.

b/ Vessel license refund program participated in by 85 boats in 1984.

c/ Buy-back program purchased 21 percent of the 355 total licenses issued during 1984.