

#### IV. SUMMARY COST AND REVENUE DATA

Summary cost and revenue data are presented in two subsections below – one each for California and Oregon. As different survey instruments were used, the data in IV.A are not directly comparable to those in IV.B.

##### IV.A. California

##### California Costs by Operational Configuration

The top three expenditures by OC are given in Table 7. Vessel and gear repairs/ maintenance tend to dominate the fixed cost categories, while crew wages and fuel are the largest expenses for variable costs. It is notable that fixed costs have higher percentages in the Salmon and the Salmon Albacore OCs, while variable costs (particularly crew wages) are higher for the Salmon and Dungeness OCs.

**Table 7: Top Three 2006 CA Commercial Salmon Cost Categories by OC\***

Operational Configuration	Top Three Costs			
	Fixed Cost	% of Total	Variable Cost	% of Total
Salmon	Other Gear Purchase	9.38	Wage	7.25
	Engine Purchase	7.96	Fuel	6.70
	Slip Costs	7.34	Transport	4.52
Salmon & Albacore	Hull Repair	11.04	Fuel	8.59
	Other Gear Purchase	9.29	Wage	8.03
	Interest	7.43	Transport	3.72
Salmon & Dungeness – Small Vessels	Engine Purchase	9.51	Wage	18.92
	Fed Tax	5.58	Fuel	12.71
	Other Gear Repair	5.53	Transport	7.05
Salmon & Dungeness – Medium & Large Vessels	Other Gear Purchase	8.68	Wage	16.53
	Fed Tax	7.84	Fuel	6.77
	Hull Repair	7.31	Bait	5.06
All Salmon Fisheries	Other Gear Purchase	8.98	Wage	11.58
	Hull Repair	7.36	Fuel	6.99
	Other Gear Repair	7.12	Transport	4.06

\* Source: Hackett and Hansen (2008)

Tables 8 through 11 give total and average cost for each of the 27 cost categories from the Hackett and Hansen (2008) survey. Average costs are calculated on a “per-fisherman” basis (not per vessel, as with the Oregon data), as some fishermen do not own vessels or may share the use of a vessel. Each table provides these costs for a given OC. Costs are further disaggregated into the four vessel size classes described in section III.A. above.

**Table 8: Estimated Costs Incurred in the CA Salmon OC by Vessel Size Class in 2006\***

Vessel Size Class	Estimated Total Cost (\$)					Estimated Average Cost (\$)			
	Unclassified	< 26'	26' - 36'	> 36'	All	Unclassified	< 26'	26' - 36'	> 36'
<b>Number of Fishermen</b>	73	84	124	60	341	73	84	124	60
<b>Cost Category</b>									
Engine Repair	77,041	88,151	223,991	75,869	<b>465,052</b>	988	1,062	1,750	1,431
Engine Purchase	75,136	110,301	386,614	31,846	<b>603,897</b>	963	1,329	3,020	601
Electrical Gear Repair	25,562	17,219	76,616	62,902	<b>182,299</b>	328	207	599	1,187
Electrical Gear Purchase	70,150	34,403	88,466	39,350	<b>232,369</b>	899	414	691	742
Hull Repair	71,366	42,485	237,592	179,025	<b>530,467</b>	915	512	1,856	3,378
Hull Purchase	43,999	35,208	108,475	39,592	<b>227,273</b>	564	424	847	747
Other Gear Repair	69,581	82,780	243,576	155,233	<b>551,170</b>	892	997	1,903	2,929
Other Gear Purchase	141,401	61,983	336,442	172,396	<b>712,220</b>	1,813	747	2,628	3,253
Vessel Insurance	43,005	40,484	86,849	48,123	<b>218,461</b>	551	488	679	908
Storage	23,746	50,224	80,100	29,722	<b>183,792</b>	304	605	626	561
Interest	51,325	21,826	227,093	118,879	<b>419,123</b>	658	263	1,774	2,243
Federal Taxes	81,062	84,451	162,080	65,856	<b>393,449</b>	1,039	1,017	1,266	1,243
State Taxes	15,665	16,352	28,504	11,639	<b>72,160</b>	201	197	223	220
Boat Reg. Fees	0	19,951	32,622	10,671	<b>63,244</b>	0	240	255	201
Permit Fees	1,889	1,272	2,970	2,907	<b>9,039</b>	24	15	23	55
Commercial License	5,892	6,779	11,583	3,778	<b>28,032</b>	76	82	90	71
Slip	94,018	100,182	258,877	103,993	<b>557,071</b>	1,205	1,207	2,022	1,962
Other Slip	8,191	2,621	2,138	249	<b>13,199</b>	105	32	17	5
Bait	25,967	26,262	68,007	90,004	<b>210,240</b>	333	316	531	1,698
Wage	95,011	123,307	235,993	95,889	<b>550,201</b>	1,218	1,486	1,844	1,809
Food	45,676	56,768	130,141	74,465	<b>307,050</b>	586	684	1,017	1,405
Fuel	115,117	84,630	183,784	124,761	<b>508,291</b>	1,476	1,020	1,436	2,354
Harbor	11,067	19,341	29,882	10,519	<b>70,808</b>	142	233	233	198
Ice	15,331	9,938	26,308	20,556	<b>72,132</b>	197	120	206	388
Transportation	72,225	70,451	142,943	57,783	<b>343,403</b>	926	849	1,117	1,090
Membership	13,031	8,000	15,572	5,354	<b>41,956</b>	167	96	122	101
Landing Taxes	5,287	2,010	10,726	5,482	<b>23,505</b>	68	24	84	103
<b>TOTAL COSTS</b>	1,297,740	1,217,376	3,437,943	1,636,842	<b>7,589,901</b>	16,637	14,668	26,859	30,884

\* Source: Hackett and Hansen (2008)

**Table 9: Estimated Costs Incurred in the CA Salmon & Albacore OC by Vessel Size Class in 2006\***

Vessel Size Class	Estimated Total Cost (\$)					Estimated Average Cost (\$)			
	Unclassified	< 26'	26' - 36'	> 36'	All	Unclassified	< 26'	26' - 36'	> 36'
<b>Number of Fishermen</b>	10	6	8	38	62	10	6	8	38
<b>Cost Category</b>									
Engine Repair	10,541	2,246	3,200	39,560	<b>55,547</b>	1,054	449	400	1,014
Engine Purchase	11,618	3,433	5,397	15,761	<b>36,208</b>	1,162	687	675	404
Electrical Gear Repair	3,049	1,366	1,041	29,485	<b>34,941</b>	305	273	130	756
Electrical Gear Purchase	2,167	659	1,224	16,965	<b>21,015</b>	217	132	153	435
Hull Repair	30,148	852	3,378	98,437	<b>132,816</b>	3,015	170	422	2,524
Hull Purchase	13,874	730	1,516	19,604	<b>35,724</b>	1,387	146	189	503
Other Gear Repair	9,463	2,990	3,230	67,331	<b>83,014</b>	946	598	404	1,726
Other Gear Purchase	21,151	1,696	4,501	84,396	<b>111,743</b>	2,115	339	563	2,164
Vessel Insurance	28,388	2,140	1,997	31,080	<b>63,605</b>	2,839	428	250	797
Storage	3,168	762	1,039	12,718	<b>17,687</b>	317	152	130	326
Interest	22,894	1,027	3,685	61,840	<b>89,446</b>	2,289	205	461	1,586
Federal Taxes	18,534	1,989	2,480	51,636	<b>74,639</b>	1,853	398	310	1,324
State Taxes	4,160	513	453	9,801	<b>14,927</b>	416	103	57	251
Boat Reg. Fees	0	411	532	3,835	<b>4,779</b>	0	82	67	98
Permit Fees	177	103	98	658	<b>1,036</b>	18	21	12	17
Commercial License	588	155	150	1,698	<b>2,592</b>	59	31	19	44
Slip	13,016	1,545	3,536	46,679	<b>64,776</b>	1,302	309	442	1,197
Other Slip	1,096	57	14	452	<b>1,618</b>	110	11	2	12
Bait	1,916	11,273	1,274	20,592	<b>35,056</b>	192	2,255	159	528
Wage	24,463	9,027	4,666	58,541	<b>96,696</b>	2,446	1,805	583	1,501
Food	6,936	1,049	1,262	26,428	<b>35,676</b>	694	210	158	678
Fuel	30,976	6,040	3,693	62,613	<b>103,320</b>	3,098	1,208	462	1,605
Harbor	5,083	6,784	381	3,725	<b>15,972</b>	508	1,357	48	96
Ice	5,260	1,999	326	8,757	<b>16,341</b>	526	400	41	225
Transportation	9,635	4,156	2,133	28,816	<b>44,740</b>	963	831	267	739
Membership	962	1,171	329	5,187	<b>7,649</b>	96	234	41	133
Landing Taxes	483	14	111	1,292	<b>1,900</b>	48	3	14	33
<b>TOTAL COSTS</b>	279,744	64,188	51,644	807,888	<b>1,203,465</b>	27,974	12,837	6,456	20,715

\* Source: Hackett and Hansen (2008)

**Table 10: Estimated Costs Incurred in the CA Salmon & Dungeness – Small Vessels OC by Vessel Size Class in 2006\***

Vessel Size Class	Estimated Total Cost (\$)			Estimated Average Cost (\$)	
	Unclassified	< 26'	All	Unclassified	< 26'
<b>Number of Fishermen</b>	2	11	13	2	11
<b>Cost Category</b>					
Engine Repair	2,452	9,419	<b>11,870</b>	1,226	856
Engine Purchase	7,300	23,384	<b>30,684</b>	3,650	2,126
Electrical Gear Repair	1,231	2,206	<b>3,436</b>	615	201
Electrical Gear Purchase	3,743	4,187	<b>7,930</b>	1,872	381
Hull Repair	2,569	8,523	<b>11,092</b>	1,284	775
Hull Purchase	1,925	9,123	<b>11,047</b>	962	829
Other Gear Repair	4,367	13,491	<b>17,858</b>	2,183	1,226
Other Gear Purchase	4,496	11,469	<b>15,965</b>	2,248	1,043
Vessel Insurance	1,525	6,271	<b>7,796</b>	763	570
Storage	2,000	6,145	<b>8,145</b>	1,000	559
Interest	122	2,177	<b>2,299</b>	61	198
Federal Taxes	7,383	10,629	<b>18,013</b>	3,692	966
State Taxes	936	2,584	<b>3,520</b>	468	235
Boat Reg. Fees	0	3,257	<b>3,257</b>	0	296
Permit Fees	0	1,468	<b>1,468</b>	0	133
Commercial License	204	830	<b>1,034</b>	102	75
Slip	2,500	14,968	<b>17,468</b>	1,250	1,361
Other Slip	0	0	<b>0</b>	0	0
Bait	2,400	7,747	<b>10,147</b>	1,200	704
Wage	19,003	42,074	<b>61,077</b>	9,501	3,825
Food	1,775	4,752	<b>6,527</b>	888	432
Fuel	9,053	31,961	<b>41,014</b>	4,527	2,906
Harbor	3,100	1,651	<b>4,751</b>	1,550	150
Ice	0	0	<b>0</b>	0	0
Transportation	3,500	19,251	<b>22,751</b>	1,750	1,750
Membership	40	1,325	<b>1,365</b>	20	120
Landing Taxes	1,183	1,099	<b>2,283</b>	592	100
<b>TOTAL COSTS</b>	82,806	239,992	<b>322,797</b>	41,403	21,817

\* Source: Hackett and Hansen (2008)

**Table 11: Estimated Costs Incurred in the CA Salmon & Dungeness – Medium and Large Vessels OC by Vessel Size Class in 2006\***

Vessel Size Class	Estimated Total Cost (\$)				Estimated Average Cost (\$)		
	Unclassified	26' - 36'	> 36'	All	Unclassified	26' - 36'	> 36'
<b>Number of Fishermen</b>	27	52	75	148	27	52	75
<b>Cost Category</b>							
Engine Repair	37,054	100,704	127,009	<b>264,767</b>	1,372	1,937	1,740
Engine Purchase	46,265	166,036	60,584	<b>272,885</b>	1,714	3,193	830
Electrical Gear Repair	19,288	45,293	108,941	<b>173,522</b>	714	871	1,492
Electrical Gear Purchase	30,382	40,134	73,470	<b>143,986</b>	1,125	772	1,006
Hull Repair	79,491	127,768	307,073	<b>514,332</b>	2,944	2,457	4,206
Hull Purchase	30,195	60,153	70,478	<b>160,826</b>	1,118	1,157	965
Other Gear Repair	85,154	134,625	277,942	<b>497,722</b>	3,154	2,589	3,807
Other Gear Purchase	130,483	150,172	329,598	<b>610,253</b>	4,833	2,888	4,515
Vessel Insurance	72,004	46,555	93,819	<b>212,378</b>	2,667	895	1,285
Storage	23,000	37,271	53,470	<b>113,742</b>	852	717	732
Interest	37,054	120,448	209,540	<b>367,041</b>	1,372	2,316	2,870
Federal Taxes	101,124	107,723	342,490	<b>551,337</b>	3,745	2,072	4,692
State Taxes	23,462	18,541	63,570	<b>105,573</b>	869	357	871
Boat Reg. Fees	0	18,754	25,542	<b>44,296</b>	0	361	350
Permit Fees	419	5,130	4,591	<b>10,140</b>	16	105	62
Commercial License	2,365	4,412	6,759	<b>13,536</b>	88	85	93
Slip	51,347	114,473	194,275	<b>360,095</b>	1,902	2,201	2,661
Other Slip	5,383	100	6,422	<b>11,905</b>	199	2	88
Bait	136,084	101,849	118,170	<b>356,103</b>	5,040	1,959	1,619
Wage	361,986	250,601	549,740	<b>1,162,326</b>	13,407	4,819	7,531
Food	45,245	57,674	124,898	<b>227,817</b>	1,676	1,109	1,711
Fuel	127,708	101,961	246,280	<b>475,949</b>	4,730	1,961	3,374
Harbor	5,004	25,945	12,180	<b>43,129</b>	185	499	167
Ice	11	70	0	<b>80</b>	0	1	0
Transportation	63,020	67,068	115,215	<b>245,302</b>	2,334	1,290	1,578
Membership	9,308	16,019	14,557	<b>39,885</b>	345	308	199
Landing Taxes	19,411	8,798	26,087	<b>54,296</b>	719	169	357
<b>TOTAL COSTS</b>	1,542,248	1,928,274	3,562,700	<b>7,033,223</b>	57,120	37,088	48,803

\* Source: Hackett and Hansen (2008)

## California Costs by County

According to CDFG landings records, commercial fishermen landed salmon in 18 California counties in 2006. Sonoma County led the state in total number of commercial salmon fishing trips in 2006, followed by San Mateo and Mendocino Counties (Table 12). When the trip data are disaggregated by OC, the resulting lists of top three counties reveal considerable heterogeneity, with only Mendocino County appearing in the top-three lists for all OC's (Table 13).

**Table 12: Top Three California Counties Based on Frequency of All Commercial Salmon Fishing Trips in 2006\***

County	Shares of Total Statewide Trips in 2006 (%)
Sonoma	28.98
San Mateo	16.73
Mendocino	11.54

\* Source: Hackett and Hansen (2008)

**Table 13: Top Three California Counties Based on Frequency of All Commercial Salmon Fishing Trips in 2006, by OC\***

Salmon		Salmon & Albacore		Salmon & Dungeness – Small Vessels		Salmon & Dungeness – Medium & Large Vessels	
County	Share of Statewide Trips (%)	County	Share of Statewide Trips (%)	County	Share of Statewide Trips (%)	County	Share of Statewide Trips (%)
Sonoma	42	Humboldt	34	Marin	43	San Mateo	24
Monterey	21	Santa Cruz	17	Sonoma	18	Sonoma	23
Mendocino	12	Mendocino	10	Mendocino	14	Mendocino	11

\* Source: Hackett and Hansen (2008)

One can see from Table 14 and Figure 1 below that Sonoma County ranks first among all California counties in terms of total costs associated with commercial salmon fishing in 2006, whereas Orange County ranked last.

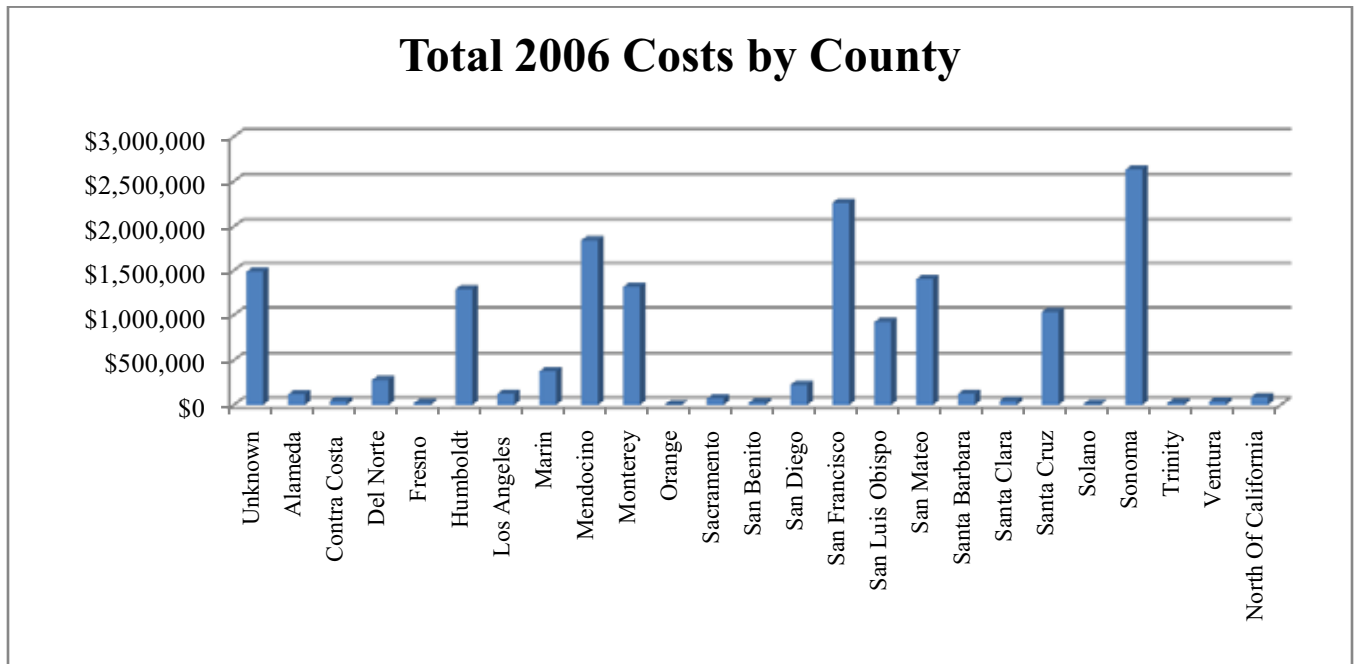
**Table 14: Estimated Commercial Salmon Costs Incurred in 2006, by California County (All OC's)\***

<b>California County</b>	<b>Total Cost (\$)</b>		<b>California County</b>	<b>Average Cost (\$)</b>
Sonoma	2,034,785		San Diego	24,792
San Francisco	1,815,646		San Benito	22,425
Mendocino	1,410,632		Humboldt	21,406
Unknown	1,275,788		Los Angeles	18,433
Monterey	1,110,070		North Of California	18,189
Humboldt	984,654		Trinity	17,919
San Luis Obispo	966,359		Fresno	16,526
San Mateo	964,284		Santa Clara	16,385
Santa Cruz	859,542		Sacramento	14,662
Marin	291,862		Unknown	13,718
Del Norte	175,568		San Luis Obispo	13,238
San Diego	173,547		San Francisco	12,436
Santa Barbara	108,627		Santa Cruz	11,310
Los Angeles	92,163		Marin	11,225
Alameda	86,967		Mendocino	10,076
North Of California	72,756		Monterey	9,824
Sacramento	58,649		Contra Costa	9,271
Contra Costa	37,084		Santa Barbara	9,052
Ventura	33,671		Sonoma	8,443
Santa Clara	32,770		Ventura	8,418
San Benito	22,425		San Mateo	7,840
Trinity	17,919		Del Norte	7,023
Fresno	16,526		Alameda	4,141
Solano	10,753		Solano	3,584
Orange	2,460		Orange	2,460

\* Source: Hackett and Hansen (2008)



**Figure 1: Total Estimated 2006 Commercial Salmon Costs by California County (All OC's)\***



\* Source: Hackett and Hansen (2008)

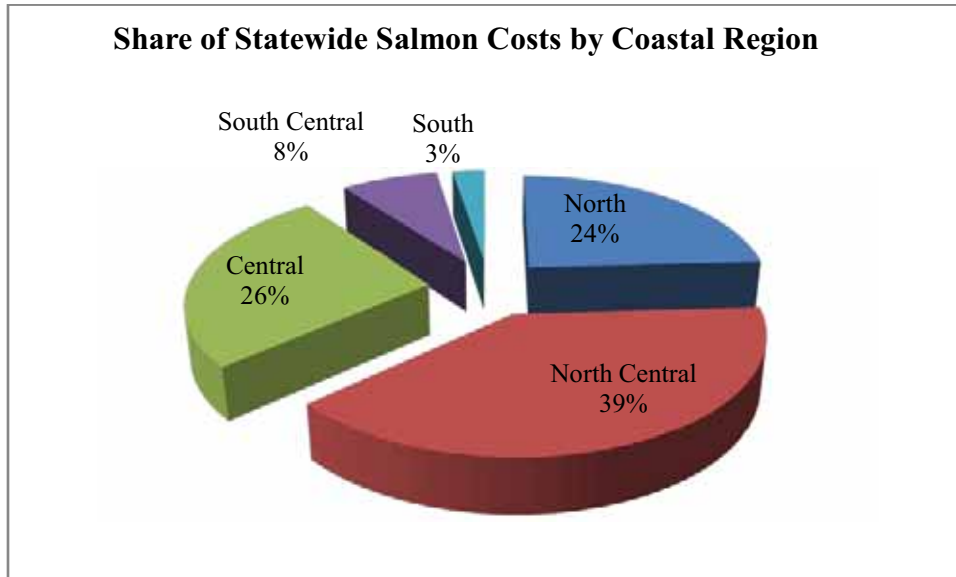
**California Costs by Region**

California can be divided into five coastal regions: North, North Central, Central, South Central, and South (Table 15). Commercial salmon costs by California coastal region are shown in Figure 2 below. Fishermen in the North Central region incurred the largest share of California’s total estimated 2006 salmon costs, likely due to the large number of commercial fishermen making landings and having their home ports in this region. The southern regions have fewer salmon fishermen with home and landing ports in the area (as salmon are less frequently encountered off southern California), and thus contribute the least to statewide costs.

**Table 15: California Coastal Regions**

Regions	Counties
North	Del Norte, Humboldt, Mendocino
North Central	Alameda, Contra Costa, Marin, Napa, San Francisco, Santa Clara, Solano, Sonoma
Central	Monterey, San Mateo, Santa Cruz
South Central	San Luis Obispo, Santa Barbara, Ventura
South	Los Angeles, Orange, San Diego

**Figure 2: Share of Total 2006 Commercial Salmon Costs by Coastal Region\***



\* Source: Hackett and Hansen (2008)

### California Ex-Vessel Revenue and Net Revenue

California fishermen received nearly \$15 million in gross revenue from commercial fishing activity in the four salmon OCs in 2006. As shown in Table 16, the majority of total revenue was generated from the Salmon & Dungeness – medium and large OC, due in large part to bountiful landings of valuable Dungeness crab by fishermen participating in that OC. As salmon ex-vessel revenue is further apportioned into vessel size classes, the larger vessels accrued the most revenue except in the case of the salmon OC, where medium sized vessels attained the highest total revenue (Table 17). Recall that ex-vessel revenue is solely derived from landing receipts from commercial fishing, and does not include disaster payments, income from other sources, or other transfers (e.g. Social Security).

**Table 16: Ex-Vessel California Revenues in 2006 by OC\***

Operational Configuration	Ex-Vessel Revenue in 2006 (\$)	
	Total	Average
Salmon	2,801,917	8,217
Salmon & Albacore	550,182	8,874
Salmon & Dungeness – Small Vessels	300,847	23,142
Salmon & Dungeness – Med. & Large Vessels	11,205,875	75,715
<b>Total</b>	<b>14,858,821</b>	<b>26,345</b>

\*Source: CDFG 2006 landings receipt database

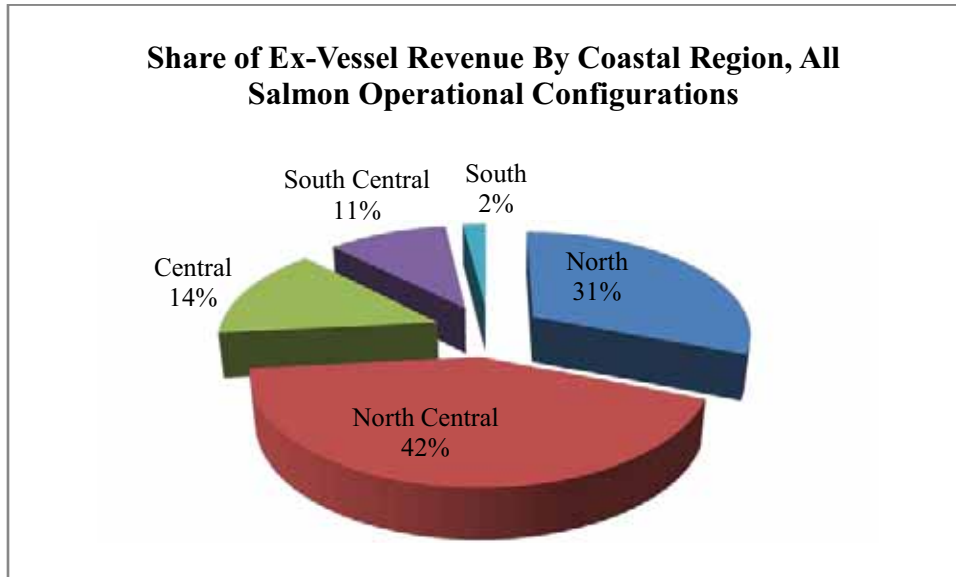
**Table 17: Ex-Vessel California Revenue by OC and Vessel Size Class in 2006 \***

Operational Configuration	Size	Ex-Vessel Revenue in 2006 (\$)	
		Total	Average
Salmon	Unclassified	658,962	9,027
	< 26'	261,617	3,114
	26' – 36'	1,103,370	8,898
	> 36'	77,968	12,966
Salmon & Albacore	Unclassified	82,476	8,248
	< 26'	13,565	2,261
	26' – 36'	16,292	2,037
	> 36'	437,849	11,522
Salmon & Dungeness – Small Vessels	Unclassified	115,379	57,690
	< 26'	185,468	16,861
Salmon & Dungeness – Med. & Large Vessels	Unclassified	2,137,792	79,177
	26' – 36'	2,351,022	47,020
	> 36'	6,717,061	92,014

\*Source: CDFG 2006 landings receipt database

Figure 3 provides information on the share of ex-vessel commercial fishing revenue in the four salmon OCs by California coastal region. The North Central region had the largest share of statewide ex-vessel revenue, while in contrast the South region had smallest share of revenue.

**Figure 3: Share of 2006 Ex-Vessel Commercial Revenue by California Coastal Region\***



\* Source: CDFG 2006 landings receipt database

Ex-vessel revenues in 2006 from the four commercial salmon OCs in California were heavily impacted by fishing restrictions that occurred along the coast. As mentioned in section II above, ex-vessel revenues in 2006 in California were down \$7.6 million in nominal terms from 2005. The steep decline in revenue created negative net revenues in three of the four salmon OCs evaluated in this study, and for the entire California salmon fishery taken as a whole (Table 18). Table 19 further examines salmon net revenues within the OC's vessel size classes. The disastrous season resulted in over half of the participating 2006 salmon fishermen having negative net revenues (Table 20).

**Table 18: California Net Revenues in 2006 by Operational Configuration\***

OC	Total Net Revenues (\$)	Average Net Revenues (\$)
Salmon	-4,787,984	-14,305
Salmon & Albacore	-653,283	-10,537
Salmon & Dungeness – Small Vessels	-21,950	-1,689
Salmon & Dungeness – Med. & Large Vessels	4,172,652	28,194
All Salmon Fisheries	-1,290,565	-2,346

\*Source: Hackett and Hansen (2008) and CDFG

**Table 19: 2006 California Estimated Net Revenue by Vessel Size Class and Operational Configuration\***

Vessel Size Class	Estimated Total Net Revenue (\$)					Estimated Average Net Revenue (\$)			
	Unclassified	< 26'	26' - 36'	> 36'	All	Unclassified	< 26'	26' - 36'	> 36'
<b>Operational Configuration</b>									
Salmon	-638,778	-896,882	-2,279,137	-973,187	<b>-4,787,984</b>	-7,611	-11,329	-17,121	-18,817
Salmon Albacore	-197,268	-50,623	-35,352	-370,039	<b>-653,283</b>	-19,727	-10,577	-4,419	-9,193
Salmon Dungeness – Small Vessels	32,573	-54,524	n/a	n/a	<b>-21,950</b>	16,287	-4,956	n/a	n/a
Salmon Dungeness – Med. & Large Vessels	595,544	n/a	422,748	3,154,361	<b>4,172,652</b>	22,057	n/a	9,932	43,211

\*Source: Hackett and Hansen (2008) and CDFG

**Table 20: Net Revenue Status in 2006 for Commercial Fishermen Active in all California Salmon Operational Configurations**

	<b>Number of Fishermen</b>	<b>Share of All CA Salmon Fishermen (%)</b>
Negative Net Revenue	380	69
Positive Net Revenue	170	31
Total	550	100

\*Source: Hackett and Hansen (2008) and CDFG

#### **IV.B. Oregon**

This section of the report is built on data from the NOAA NMFS (2008) survey covering open access groundfish vessels, as well as various types of vessels targeting salmon and other species groups. This survey collected cost data for California, Oregon, and Washington (CA/OR/WA) commercial fishing vessels, and the following tables provide information for vessels that landed salmon in 2005 and 2006. CA/OR/WA data refer to information drawn from (or aggregated by) the entire survey area, while Oregon data refer to information drawn from (or aggregated for) all Oregon vessels (defined as vessels that made a majority of their landings at Oregon ports in 2005 or 2006, as requested by ODFW personnel). As previously noted, revenue data for each state are derived from the PacFin database. Note that while the California data in section IV.A are aggregated from the individual fisherman level, the NOAA NMFS (2008) data reported below are aggregated from the individual vessel level. The vessel-level data for CA/OR/WA and for Oregon are organized for use in the FEAM vessel impacts model, as requested by ODFW personnel.

Tables 21 through 24 provide average costs for surveyed Oregon (OR) and for CA/OR/WA vessels landing salmon in 2006 and 2005 by cost categories and FEAM vessel type. ODFW personnel requested additional analysis specifically focused on the salmon troller FEAM vessel type, and this information is provided in Tables 25 through 27 below. From the list of top three cost categories for the salmon troller FEAM vessel type given in Table 25 below, one can see that captain’s wages and elective repairs and maintenance costs were consistently the top two. The third largest expense for these vessels in 2005 was crew wage, while in 2006 it was vessel fuel.

**Table 21. 2006 Average Costs and Cost Shares for Oregon Survey Vessel Types\***

FEAM Vessel Type**	2006 Average Costs (\$)						
	Sablefish Fixed Gear	Groundfish Fixed Gear	HMS	Crabber	Salmon Troller	Other ≤ \$15,000	Weighted Average
<b>Number of Vessels</b>	5	6	4	13	10	32	70
<b>Cost Categories</b>							
Captain Wage	22,400	30,667	20,000	19,653	20,400	3,927	13,731
Crew Wage	22,000	17,333	7,500	34,340	3,165	1,498	11,000
Fuel	11,144	5,417	10,250	16,348	4,137	2,772	6,740
Food	850	567	2,475	1,640	1,442	647	1,057
Ice	570	117	684	2,738	1,045	349	907
Bait	2,880	2,342	1,125	6,775	18	545	1,981
Repair, Maintenance, and Improvements	13,640	7,917	33,600	11,799	7,692	4,906	9,105
Insurance	1,000	0	0	8,384	457	618	1,976
Interest	1,000	0	6,000	550	70	349	686
Permit Purchase	0	0	8,750	401	0	127	632
Permit Lease	1,800	0	0	0	0	0	129
<b>Total</b>	<b>76,284</b>	<b>64,358</b>	<b>84,384</b>	<b>102,077</b>	<b>38,357</b>	<b>15,388</b>	<b>47,258</b>
	2006 Average Cost Shares (%)						
Captain Wage	29.4	47.6	23.7	19.3	53.2	25.5	29.1
Crew Wage	28.8	26.9	8.9	33.6	8.3	9.7	23.3
Fuel	14.6	8.4	12.1	16.0	10.8	18.0	14.3
Food	1.1	0.9	2.9	1.6	3.8	4.2	2.2
Ice	0.7	0.2	0.8	2.7	2.7	2.3	1.9
Bait	3.8	3.6	1.3	6.6	0.0	3.5	4.2
Repair, Maintenance, and Improvements	17.9	12.3	39.8	11.6	20.1	31.9	19.3
Insurance	1.3	0.0	0.0	8.2	1.2	4.0	4.2
Interest	1.3	0.0	7.1	0.5	0.2	2.3	1.5
Permit Purchase	0.0	0.0	10.4	0.4	0.0	0.8	1.3
Permit Lease	2.4	0.0	0.0	0.0	0.0	0.0	0.3
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

\* Source: NOAA NMFS (2008)

\*\*Shrimper and "Other > \$15,000" vessels not included (n < 3)

**Table 22. 2005 Average Costs and Cost Shares for Oregon Survey Vessel Types\***

FEAM Vessel Type**	2005 Average Costs (\$)						
	Sablefish Fixed Gear	Groundfish Fixed Gear	HMS	Crabber	Salmon Troller	Other ≤ \$15,000	Weighted Average
<b>Number of Vessels</b>	5	7	1	8	28	29	77
<b>Cost Categories</b>							
Captain Wage	46,400	17,143	n/a	32,768	14,892	2,524	14,342
Crew Wage	26,000	14,671	n/a	32,459	7,691	714	9,460
Fuel	8,844	6,314	n/a	17,482	6,845	1,353	5,964
Food	1,300	629	n/a	1,803	2,182	441	1,289
Ice	570	143	n/a	2,354	1,269	165	818
Bait	4,360	2,621	n/a	8,538	750	147	1,737
Repair, Maintenance, and Improvements	15,700	13,743	n/a	17,393	12,631	4,579	10,394
Insurance	1,760	386	n/a	9,890	2,074	448	2,100
Interest	1,000	71	n/a	1,248	1,317	362	816
Permit Purchase	0	71	n/a	495	1,250	187	583
Permit Lease	0	0	n/a	0	0	0	0
<b>Total</b>	<b>104,934</b>	<b>55,721</b>	<b>n/a</b>	<b>123,182</b>	<b>49,585</b>	<b>10,558</b>	<b>46,685</b>
	<b>2005 Average Costs Shares (%)</b>						
Captain Wage	44.2	30.8	n/a	26.6	30.0	23.9	30.7
Crew Wage	24.8	26.3	n/a	26.4	15.5	6.8	20.3
Fuel	8.4	11.3	n/a	14.2	13.8	12.8	12.8
Food	1.2	1.1	n/a	1.5	4.4	4.2	2.8
Ice	0.5	0.3	n/a	1.9	2.6	1.6	1.8
Bait	4.2	4.7	n/a	6.9	1.5	1.4	3.7
Repair, Maintenance, and Improvements	15.0	24.7	n/a	14.1	25.5	43.4	22.3
Insurance	1.7	0.7	n/a	8.0	4.2	4.2	4.5
Interest	1.0	0.1	n/a	1.0	2.7	3.4	1.7
Permit Purchase	0.0	0.1	n/a	0.4	2.5	1.8	1.2
Permit Lease	0.0	0.0	n/a	0.0	0.0	0.0	0.0
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>n/a</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

\* Source: NOAA NMFS (2008)

\*\*Shrimper and "Other > \$15,000" vessels not included (n < 3)



**Table 23. 2006 Average Costs and Cost Shares for CA/OR/WA Survey Vessel Types\***

FEAM Vessel Type**	2006 Average Costs (\$)							Weighted Average
	Sablefish Fixed Gear	Groundfish Fixed Gear	HMS	Crabber	Salmon Troller	Other > \$15,000	Other ≤ \$15,000	
<b>Number of Vessels</b>	9	10	12	41	27	7	77	183
<b>Cost Categories</b>								
Captain Wage	19,556	26,500	13,208	22,121	18,002	33,286	3,454	13,615
Crew Wage	16,602	11,050	8,346	27,827	3,835	6,989	836	9,387
Fuel	8,142	5,960	9,530	12,740	4,228	17,755	3,601	7,023
Food	1,321	940	2,757	2,562	1,417	5,537	716	1,593
Ice	343	320	903	1,503	699	443	270	664
Bait	2,700	1,805	721	4,688	242	5,009	341	1,700
Repair, Maintenance, and Improvements	9,876	6,250	20,736	13,099	8,112	21,299	5,851	9,595
Insurance	556	80	1,889	5,460	973	775	510	1,767
Interest	1,230	300	2,460	610	535	1,524	233	610
Permit Purchase	11,597	0	2,917	176	407	314	162	941
Permit Lease	1,000	0	0	24	39	0	14	66
<b>Total</b>	<b>71,692</b>	<b>52,905</b>	<b>61,006</b>	<b>90,200</b>	<b>37,955</b>	<b>91,407</b>	<b>15,756</b>	<b>46,352</b>
	2006 Average Costs Shares (%)							
Captain Wage	27.3	50.1	21.7	24.5	47.4	36.4	21.9	29.4
Crew Wage	23.2	20.9	13.7	30.9	10.1	7.6	5.3	20.3
Fuel	11.4	11.3	15.6	14.1	11.1	19.4	22.9	15.2
Food	1.8	1.8	4.5	2.8	3.7	6.1	4.5	3.4
Ice	0.5	0.6	1.5	1.7	1.8	0.5	1.7	1.4
Bait	3.8	3.4	1.2	5.2	0.6	5.5	2.2	3.7
Repair, Maintenance, and Improvements	13.8	11.8	34.0	14.5	21.4	23.3	37.1	20.7
Insurance	0.8	0.2	3.1	6.1	2.6	0.8	3.2	3.8
Interest	1.7	0.6	4.0	0.7	1.4	1.7	1.5	1.3
Permit Purchase	16.2	0.0	4.8	0.2	1.1	0.3	1.0	2.0
Permit Lease	1.4	0.0	0.0	0.0	0.1	0.0	0.1	0.1
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

\* Source: NOAA NMFS (2008)

\*\*Shrimper vessels not included (n < 3)

**Table 24. 2005 Average Costs and Cost Shares for CA/OR/WA Survey Vessel Types\***

FEAM Vessel Type**	2005 Average Costs (\$)							
	Sablefish Fixed Gear	Groundfish Fixed Gear	HMS	Crabber	Salmon Troller	Other > \$15,000	Other ≤ \$15,000	Weighted Average
<b>Number of Vessels</b>	10	14	4	22	78	4	60	192
<b>Cost Categories</b>								
Captain Wage	38,100	18,286	24,500	25,792	14,856	40,000	3,673	14,800
Crew Wage	27,403	10,729	17,525	29,063	6,857	2,900	662	8,958
Fuel	8,593	9,486	11,464	12,150	5,940	16,100	3,715	6,680
Food	1,540	1,171	3,380	2,144	2,067	7,100	708	1,690
Ice	413	239	1,338	1,353	895	400	250	672
Bait	4,237	2,196	1,050	6,307	810	6,863	143	1,642
Repair, Maintenance, and Improvements	10,897	10,336	19,902	14,528	10,374	33,788	3,804	9,508
Insurance	880	193	3,325	7,603	1,551	1,359	426	1,792
Interest	915	763	189	1,166	707	63	247	606
Permit Purchase	39	36	0	6,189	768	3,500	319	1,198
Permit Lease	0	0	0	100	14	0	0	17
<b>Total</b>	<b>92,102</b>	<b>52,671</b>	<b>82,483</b>	<b>105,229</b>	<b>44,130</b>	<b>112,009</b>	<b>13,701</b>	<b>46,956</b>
	<b>2005 Average Costs Shares (%)</b>							
Captain Wage	41.4	34.7	29.7	24.5	33.7	35.7	26.8	31.5
Crew Wage	29.8	20.4	21.2	27.6	15.5	2.6	4.8	19.1
Fuel	9.3	18.0	13.9	11.5	13.5	14.4	27.1	14.2
Food	1.7	2.2	4.1	2.0	4.7	6.3	5.2	3.6
Ice	0.4	0.5	1.6	1.3	2.0	0.4	1.8	1.4
Bait	4.6	4.2	1.3	6.0	1.8	6.1	1.0	3.5
Repair, Maintenance, and Improvements	11.8	19.6	24.1	13.8	23.5	30.2	27.8	20.2
Insurance	1.0	0.4	4.0	7.2	3.5	1.2	3.1	3.8
Interest	1.0	1.4	0.2	1.1	1.6	0.1	1.8	1.3
Permit Purchase	0.0	0.1	0.0	5.9	1.7	3.1	2.3	2.6
Permit Lease	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

\* Source: NOAA NMFS (2008)

\*\*Shrimper vessels not included (n < 3)

**Table 25: Top 3 Average Cost Categories for the Salmon Troller Vessel Type in 2005 and 2006\***

2005 Cost Categories	Share of Total Costs		2006 Cost Categories	Share of Total Costs	
	CA/OR/WA	OR		CA/OR/WA	OR
Captain Wage	37	30	Captain Wage	47	53
Repair, Maintenance, and Improvements	24	25	Repair, Maintenance, and Improvements	21	20
Crew Wage	16	16	Fuel	11	11

\* Source: NOAA NMFS (2008)

Captain and crew earnings expressed as shares of total ex-vessel revenue for the salmon troller FEAM vessel type is given in Table 26. Captains generally receive between one-quarter and one-third of total vessel revenue, while the crew receives between 11 and 16 percent of total vessel revenue. Somewhat surprisingly, average crew size does not increase with vessel revenue and the data in Table 27 show that many commercial fishermen operating salmon troller vessels fish alone or with only one deck hand.

**Table 26: Shares of Salmon Troller Vessel-Type Revenue Allocated to Captain and Crew Wages\***

Salmon Troller Annual Revenue	Average Shares of Salmon Troller Vessel Revenue (%)			
	Captain		Crew	
	CA/OR/WA	Oregon	CA/OR/WA	Oregon
< \$500	30	29	14	16
\$500 to \$5,000	26	28	12	11
\$5,000 to \$25,000	24	24	12	11
> \$25,000	33	30	12	16

\* Source: NOAA NMFS (2008)

**Table 27: Average Crew Size per Salmon Troller-Type Vessel by Vessel Revenue Category\***

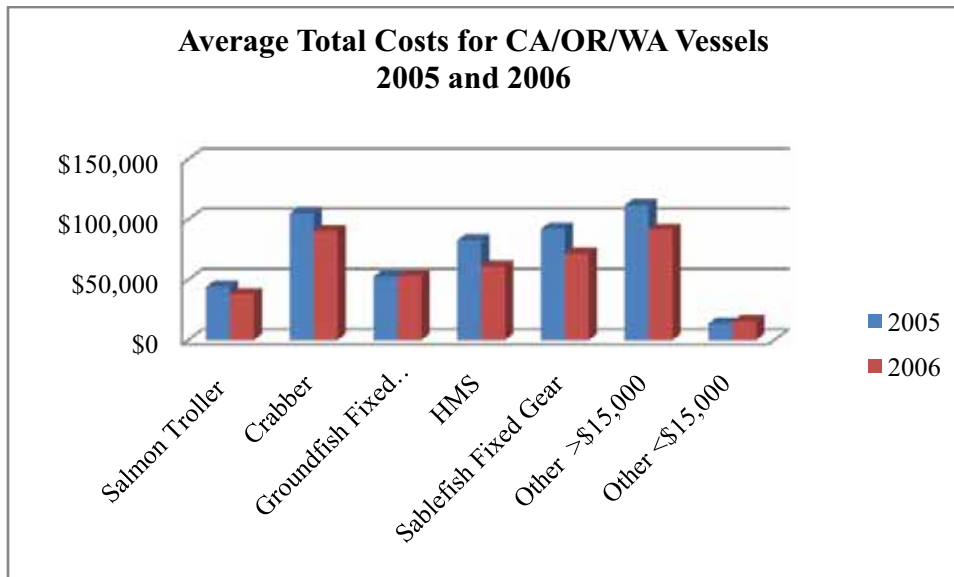
Salmon Troller Annual Revenue	Salmon Troller Average Crew Size**	
	CA/OR/WA	Oregon
< \$500	1.3	n/a
\$500 to \$5,000	0.9	0.9
\$5,000 to \$25,000	0.6	0.6
> \$25,000	0.6	0.7

\* Source: NOAA NMFS (2008)

\*\*Crew size does not include the captain

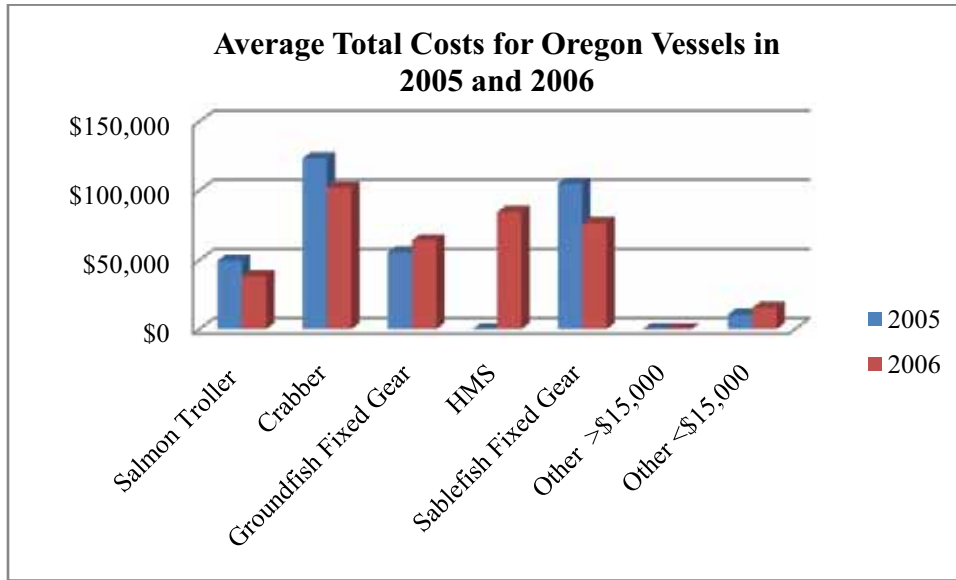
When comparing average total vessel costs between 2005 and 2006 (Figures 4 and 5), it is interesting to note that 2005 costs are generally greater than 2006 costs for five of the seven CA/OR/ WA vessel types, and for three of the five applicable OR vessel types. Tables 28 through 31 may provide the reason for this. It shows that the average number of trips for 2005 vessels were generally higher than for 2006. Therefore, in making more fishing trips, vessels in 2005 most likely incurred more operating costs than in 2006. Data on average number of trips by vessel type for 2006 and 2005 for all Oregon and CA/OR/WA vessels are provided in Tables 32 to 35.

**Figure 4: Average Total Costs for CA/OR/WA Vessels by Type in 2005 and 2006\***



\* Source: NOAA NMFS (2008)

**Figure 5: Average Total Costs for Oregon Vessel Types in 2005 and 2006\***



\* Source: NOAA NMFS (2008)

**Table 28. 2006 Average Number of Trips for Oregon Survey Vessel Types by Species Landed\***

FEAM Vessel Type**	2006 Average Number of Trips					
	Sablefish Fixed Gear	Groundfish Fixed Gear	HMS	Crabber	Salmon Troller	Other ≤ \$15,000
<b>Number of Vessels</b>	5	6	4	13	10	32
<b>Species Group</b>						
Whiting	0	0	0	0	0	0
Groundfish	23	58	3	4	0	5
Salmon Troll	8	3	4	4	10	8
Salmon Net	0	0	0	0	0	0
Crab	5	13	3	38	3	1
Shrimp	0	0	0	1	0	0
Other	2	2	8	3	5	1
<b>Total</b>	<b>38</b>	<b>75</b>	<b>17</b>	<b>51</b>	<b>18</b>	<b>14</b>
<b>2006 Average Distribution of Trips</b>						
Whiting	0.0	0.0	0.0	0.0	0.0	0.0
Groundfish	61.3	76.8	16.2	8.4	1.6	34.4
Salmon Troll	20.8	3.6	23.5	8.0	56.4	51.9
Salmon Net	0.0	0.0	0.0	0.0	0.0	0.0
Crab	13.9	16.9	14.7	75.0	15.9	3.7
Shrimp	0.0	0.0	0.0	2.1	0.0	0.0
Other	4.0	2.7	45.6	6.4	26.1	10.0
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

\* Source: NOAA NMFS (2008)

\*\*Shrimper and "Other > \$15,000" vessels not included (n < 3)

**Table 29. 2005 Average Number of Trips for Oregon Survey Vessel Types by Species Landed\***

FEAM Vessel Type**	2005 Average Number of Trips					
	Sablefish Fixed Gear	Groundfish Fixed Gear	HMS	Crabber	Salmon Troller	Other ≤ \$15,000
<b>Number of Vessels</b>	5	7	1	8	28	29
<b>Species Group</b>						
Whiting	0	0	n/a	0	0	0
Groundfish	27	52	n/a	2	2	5
Salmon Troll	11	10	n/a	6	19	10
Salmon Net	0	0	n/a	0	0	0
Crab	12	20	n/a	24	3	0
Shrimp	0	0	n/a	0	0	0
Other	6	2	n/a	5	3	2
<b>Total</b>	<b>56</b>	<b>84</b>	<b>n/a</b>	<b>38</b>	<b>27</b>	<b>18</b>
<b>2005 Average Distribution of Trips</b>						
Whiting	0.0	0.0	0.0	0.0	0.0	0.0
Groundfish	47.2	62.0	0.0	5.6	6.9	29.8
Salmon Troll	20.2	11.8	0.0	15.9	71.3	56.1
Salmon Net	0.0	0.0	0.0	0.0	0.0	0.0
Crab	22.0	23.9	0.0	64.7	9.9	2.7
Shrimp	0.0	0.0	0.0	0.0	0.0	0.0
Other	10.6	2.4	0.0	13.7	11.9	11.3
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>0.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

\* Source: NOAA NMFS (2008)

\*\*Shrimper and "Other > \$15,000" vessels not included (n < 3)

**Table 30. 2006 Average Number of Trips for CA/OR/WA Survey Vessel Types by Species Landed\***

FEAM Vessel Type**	2006 Number of Trips						
	Sablefish Fixed Gear	Groundfish Fixed Gear	HMS	Crabber	Salmon Troller	Other > \$15,000	Other ≤ \$15,000
<b>Number of Vessels</b>	9	10	12	41	27	7	77
<b>Species Group</b>							
Whiting	0	0	0	0	0	0	0
Groundfish	26	53	2	5	1	4	5
Salmon Troll	6	2	3	4	14	1	8
Salmon Net	0	0	0	0	0	0.3	0.0
Crab	5	13	3	35	2	7	0
Shrimp	0	0	0	0	0	0	0
Other	2	2	8	5	5	60	3
<b>Total</b>	<b>39</b>	<b>69</b>	<b>16</b>	<b>49</b>	<b>21</b>	<b>71</b>	<b>17</b>
	2006 Average Distribution of Trips						
Whiting	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundfish	67.3	76.4	13.9	9.7	4.7	5.6	28.5
Salmon Troll	16.4	2.3	21.1	8.0	64.0	0.8	48.0
Salmon Net	0.0	0.0	0.0	0.0	0.0	0.4	0.1
Crab	12.4	18.9	18.0	70.9	9.8	9.6	2.9
Shrimp	0.0	0.0	0.0	0.7	0.0	0.0	0.0
Other	3.8	2.4	46.9	10.6	21.6	83.6	20.5
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

\* Source: NOAA NMFS (2008)

\*\*Shrimper Vessels not included (n < 3)



**Table 31. 2005 Average Number of Trips for CA/OR/WA Survey Vessel Types by Species Landed\***

FEAM Vessel Type**	2005 Average Number of Trips						
	Sablefish Fixed Gear	Groundfish Fixed Gear	HMS	Crabber	Salmon Troller	Other > \$15,000	Other ≤ \$15,000
<b>Number of Vessels</b>	10	14	4	22	78	4	60
<b>Species Group</b>							
Whiting	0	0	0	0	0	0	0
Groundfish	27	48	0	6	2	5	7
Salmon Troll	8	7	6	7	19	0	10
Salmon Net	0	0	0	0	0	0	0.1
Crab	7	13	2	31	4	5	0
Shrimp	0	0	0	0	0	0	0
Other	6	18	4	5	5	69	5
<b>Total</b>	<b>48</b>	<b>86</b>	<b>12</b>	<b>49</b>	<b>29</b>	<b>79</b>	<b>23</b>
	2005 Average Distribution of Trips						
Whiting	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundfish	56.8	55.6	0.0	11.8	5.7	6.4	31.0
Salmon Troll	16.4	7.8	47.8	15.2	66.1	0.0	45.4
Salmon Net	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Crab	15.4	15.6	17.4	63.6	12.4	6.1	1.3
Shrimp	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	11.4	21.1	34.8	9.4	15.8	87.6	22.1
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

\* Source: NOAA NMFS (2008)

\*\*Shrimper Vessels not included (n < 3)

**Table 32. 2006 Average Number of Trips for Oregon Vessel Types by Species Landed (*All Active Fishermen*)\***

FEAM Vessel Type**	2006 Number of Trips					
	Sablefish Fixed Gear	Groundfish Fixed Gear	HMS	Crabber	Salmon Troller	Other ≤ \$15,000
<b>Number of Vessels</b>	17	19	22	81	46	184
<b>Species Group</b>						
Whiting	0	0	0	0	0	0
Groundfish	20	44	2	4	1	5
Salmon Troll	3	2	4	5	11	6
Salmon Net	0	0	0	0	0	0
Crab	3	8	1	34	1	0
Shrimp	0	0	0	0	0	0
Other	3	4	6	4	5	2
<b>Total</b>	<b>30</b>	<b>58</b>	<b>13</b>	<b>47</b>	<b>18</b>	<b>14</b>
	2006 Average Distribution of Trips					
Whiting	0.0	0.0	0.0	0.0	0.0	0.0
Groundfish	66.4	75.6	13.8	7.8	5.4	39.0
Salmon Troll	11.5	3.6	29.7	10.1	61.5	40.7
Salmon Net	0.0	0.0	0.0	0.0	0.0	0.0
Crab	11.5	14.2	6.5	73.4	5.5	3.3
Shrimp	0.8	0.0	0.0	0.0	0.0	0.0
Other	9.8	6.7	50.0	8.7	27.5	17.0
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

\* Source: NOAA NMFS (2008)

\*\*Shrimper and "Other > \$15,000" vessels not included (n < 3)

**Table 33. 2005 Average Number of Trips for Oregon Vessel Types by Species Landed (*All Active Fishermen*)\***

FEAM Vessel Type**	2005 Average Number of Trips					
	Sablefish Fixed Gear	Groundfish Fixed Gear	HMS	Crabber	Salmon Troller	Other ≤ \$15,000
<b>Number of Vessels</b>	18	23	11	50	123	223
<b>Species Group</b>						
Whiting	0	0	0	0	0	0
Groundfish	27	45	2	4	1	6
Salmon Troll	6	4	6	9	19	9
Salmon Net	0	0	0	0	0	0
Crab	7	9	1	33	3	0
Shrimp	0	0	0	0	0	0
Other	2	4	5	4	3	2
<b>Total</b>	<b>42</b>	<b>62</b>	<b>13</b>	<b>50</b>	<b>26</b>	<b>17</b>
<b>2005 Average Distribution of Trips</b>						
Whiting	0.0	0.0	0.0	0.0	0.0	0.0
Groundfish	63.2	72.2	12.2	8.6	3.4	35.7
Salmon Troll	15.3	6.9	43.5	18.5	72.8	52.5
Salmon Net	0.0	0.0	0.0	0.0	0.0	0.0
Crab	15.9	14.5	5.4	65.7	12.4	1.6
Shrimp	0.0	0.0	0.0	0.0	0.0	0.0
Other	5.5	6.5	38.8	7.2	11.4	10.2
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

\* Source: NOAA NMFS (2008)

\*\*Shrimper and "Other > \$15,000" vessels not included (n < 3)

**Table 34. 2006 Average Number of Trips for CA/OR/WA Vessel Types by Species Landed (*All Active Fishermen*)\***

FEAM Vessel Type	2006 Average Number of Trips							
	Sablefish Fixed Gear	Groundfish Fixed Gear	HMS	Shrimper	Crabber	Salmon Troller	Other > \$15,000	Other ≤ \$15,000
<b>Number of Vessels</b>	49	81	50	4	232	170	14	501
<b>Species Group</b>								
Whiting	0	0	0	0	0	0	0	0
Groundfish	24	35	2	4	3	1	8	5
Salmon Troll	2	2	3	0	4	14	0	5
Salmon Net	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
Crab	2	4	1	0	32	4	3	1
Shrimp	0	0	0	47	0	0	0	0
Other	6	30	7	10	4	4	49	6
<b>Total</b>	<b>34</b>	<b>71</b>	<b>13</b>	<b>60</b>	<b>44</b>	<b>23</b>	<b>61</b>	<b>17</b>
	2006 Average Distribution of Trips							
Whiting	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundfish	69.4	49.1	14.3	6.2	7.2	4.9	12.8	27.7
Salmon Troll	7.2	2.3	25.7	0.0	10.3	59.2	0.5	30.9
Salmon Net	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.1
Crab	6.5	5.8	8.9	0.0	73.4	17.4	5.2	3.8
Shrimp	0.6	0.6	0.0	78.0	0.0	0.9	0.1	0.1
Other	16.3	42.2	51.1	15.8	9.1	17.5	81.1	37.5
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

\* Source: NOAA NMFS (2008)

**Table 35. 2005 Average Number of Trips for CA/OR/WA Vessel Types by Species Landed (*All Active Fishermen*)\***

FEAM Vessel Type	2005 Average Number of Trips							
	Sablefish Fixed Gear	Groundfish Fixed Gear	HMS	Shrimper	Crabber	Salmon Troller	Other > \$15,000	Other ≤ \$15,000
<b>Number of Vessels</b>	56	86	27	4	122	409	11	436
<b>Species Group</b>								
Whiting	0	0	0	0	0	0	0	0
Groundfish	29	37	1	6	5	1	10	6
Salmon Troll	3	3	5	3	8	18	4	8
Salmon Net	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.1
Crab	4	4	0	1	32	5	0	0
Shrimp	0	1	0	37	0	0	0	0
Other	5	56	5	13	4	4	43	6
<b>Total</b>	<b>42</b>	<b>100</b>	<b>12</b>	<b>60</b>	<b>48</b>	<b>28</b>	<b>57</b>	<b>21</b>
<b>2005 Average Distribution of Trips</b>								
Whiting	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundfish	69.6	36.4	10.3	9.7	9.4	3.5	16.9	30.8
Salmon Troll	7.8	2.6	44.4	4.6	16.3	64.2	7.1	38.0
Salmon Net	0.0	0.0	0.0	0.8	0.1	0.1	0.0	0.2
Crab	10.6	4.3	3.6	0.8	66.1	18.4	0.0	2.3
Shrimp	0.0	0.7	0.0	62.2	0.4	0.1	0.0	0.0
Other	12.1	56.0	41.7	21.8	7.8	13.7	76.0	28.7
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

\* Source: NOAA NMFS (2008)

## Oregon Ex-Vessel Revenue and Net Revenue

The next eight tables give average ex-vessel revenues by vessel type for commercial fishing vessels that landed salmon on the west coast in 2005 and 2006. Ex-vessel revenues are further broken down by species landed and the type of gear used. The first two tables (Tables 36 and 37) refer to survey respondents that made a majority of their landings in Oregon. The second pair of tables (Tables 38 and 39) covers CA/OR/WA fishermen who responded to the survey. The third pair of tables (Tables 40 and 41) covers all vessels that made a majority of their landings Oregon. The final two tables (Tables 42 and 43) refer to all active west coast fishermen that landed salmon in CA/OR/WA. These average ex-vessel revenues pertain to individual participating vessels in each vessel type category. Recall that revenues are entirely derived from landing receipts from commercial fishing, and do not include disaster payments or other sources of income.

**Table 36. 2006 Average Ex-Vessel Revenue for Oregon Survey Vessel Types\***

FEAM Vessel Type**	2006 Average Revenue (\$)						
	Sablefish Fixed Gear	Groundfish Fixed Gear	HMS	Crabber	Salmon Troller	Other ≤ \$15,000	Weighted Average
Number of Vessels	5	6	4	13	10	32	70
<b>Species Group</b>							
Whiting	0	0	0	0	0	0	0
Groundfish	61,473	33,910	2,344	9,103	201	1,522	9,846
Salmon Troll	7,491	1,298	6,583	7,199	16,971	3,337	6,309
Salmon Net	0	0	0	0	0	0	0
Crab	11,325	22,384	7,454	148,086	9,646	221	32,135
Shrimp	0	0	0	10,184	0	0	1,891
HMS	821	295	39,193	8,414	9,306	446	5,419
Pelagic Species	0	0	0	8	0	0	1
Halibut	220	0	0	599	111	34	158
<b>Total***</b>	<b>81,330</b>	<b>57,921</b>	<b>55,574</b>	<b>183,631</b>	<b>36,245</b>	<b>5,560</b>	<b>55,772</b>

	2006 Average Ex-Vessel Revenue Shares (%)						
Whiting	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundfish	75.6	58.5	4.2	5.0	0.6	27.4	17.7
Salmon Troll	9.2	2.2	11.8	3.9	46.8	60.0	11.3
Salmon Net	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crab	13.9	38.6	13.4	80.6	26.6	4.0	57.6
Shrimp	0.0	0.0	0.0	5.5	0.0	0.0	3.4
HMS	1.0	0.5	70.5	4.6	25.7	8.0	9.7
Pelagic Species	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Halibut	0.3	0.0	0.0	0.3	0.3	0.6	0.3
<b>Total</b>	<b>100.0</b>	<b>99.9</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

\* Source: NOAA NMFS (2008)

\*\*Shrimper and "Other > \$15,000" vessels not included (n < 3)

\*\*\*Total also includes revenue from species groups not listed

**Table 37. 2005 Average Ex-Vessel Revenue for Oregon Survey Vessel Types\***

FEAM Vessel Type**	2005 Average Revenue (\$)						
	Sablefish Fixed Gear	Groundfish Fixed Gear	HMS	Crabber	Salmon Troller	Other ≤ \$15,000	Weighted Average
<b>Number of Vessels</b>	5	7	1	8	28	29	77
<b>Species Group</b>							
Whiting	0	0	n/a	0	0	0	0
Groundfish	69,127	33,098	n/a	5,033	1,755	1,876	9,817
Salmon Troll	13,592	4,064	n/a	13,601	35,624	4,667	11,068
Salmon Net	0	0	n/a	0	0	0	0
Crab	15,168	16,750	n/a	86,349	4,832	331	19,397
Shrimp	0	0	n/a	0	0	0	0
HMS	5,125	56	n/a	10,532	6,506	173	3,336
Pelagic Species	0	0	n/a	0	0	0	0
Halibut	2,899	0	n/a	160	467	18	312
<b>Total***</b>	<b>105,912</b>	<b>53,996</b>	<b>n/a</b>	<b>116,485</b>	<b>49,731</b>	<b>7,066</b>	<b>44,161</b>
	2005 Average Ex-Vessel Revenue Shares (%)						
Whiting	0.0	0.0	n/a	0.0	0.0	0.0	0.0
Groundfish	65.3	61.3	n/a	4.3	3.5	26.5	22.2
Salmon Troll	12.8	7.5	n/a	11.7	71.6	66.1	25.1
Salmon Net	0.0	0.0	n/a	0.0	0.0	0.0	0.0
Crab	14.3	31.0	n/a	74.1	9.7	4.7	43.9
Shrimp	0.0	0.0	n/a	0.0	0.0	0.0	0.0
HMS	4.8	0.1	n/a	9.0	13.1	2.5	7.6
Pelagic Species	0.0	0.0	n/a	0.0	0.0	0.0	0.0
Halibut	2.7	0.0	n/a	0.1	0.9	0.3	0.7
<b>Total</b>	<b>100.0</b>	<b>99.9</b>	<b>0.0</b>	<b>99.3</b>	<b>98.9</b>	<b>100.0</b>	<b>99.5</b>

\* Source: NOAA NMFS (2008)

\*\*Shrimper and "Other > \$15,000" vessels not included (n < 3)

\*\*\*Total also includes revenue from species groups not listed

**Table 38. 2006 Average Ex-Vessel Revenue for CA/OR/WA Survey Vessel Types\***

FEAM Vessel Type**	2006 Average Revenue (\$)							Weighted Average
	Sablefish Fixed Gear	Groundfish Fixed Gear	HMS	Crabber	Salmon Troller	Other > \$15,000	Other ≤ \$15,000	
<b>Number of Vessels</b>	9	10	12	41	27	7	77	183
<b>Species Group</b>								
Whiting	0	0	0	0	0	0	0	0
Groundfish	54,811	34,399	2,213	8,129	895	3,465	1,229	7,324
Salmon Troll	10,470	779	7,332	6,825	23,329	254	4,344	7,847
Salmon Net	0	0	0	3	0	161	5	9
Crab	6,892	19,073	3,629	110,480	5,807	2,219	332	27,453
Shrimp	0	0	0	3,229	0	0	0	723
HMS	456	189	49,459	8,000	4,462	163	237	5,833
Pelagic Species	0	0	0	2	0	0	1	1
Halibut	982	28	147	1,337	765	6,634	150	789
<b>Total***</b>	<b>73,612</b>	<b>54,489</b>	<b>66,593</b>	<b>138,694</b>	<b>35,262</b>	<b>98,064</b>	<b>6,301</b>	<b>53,643</b>
	<b>2006 Average Ex-Vessel Revenue Shares (%)</b>							
Whiting	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundfish	74.5	63.1	3.3	5.9	2.5	3.5	19.5	13.7
Salmon Troll	14.2	1.4	11.0	4.9	66.2	0.3	68.9	14.6
Salmon Net	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.0
Crab	9.4	35.0	5.5	79.7	16.5	2.3	5.3	51.2
Shrimp	0.0	0.0	0.0	2.3	0.0	0.0	0.0	1.3
HMS	0.6	0.3	74.3	5.8	12.7	0.2	3.8	10.9
Pelagic Species	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Halibut	1.3	0.1	0.2	1.0	2.2	6.8	2.4	1.5
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>94.3</b>	<b>99.5</b>	<b>100.0</b>	<b>13.1</b>	<b>100.0</b>	<b>93.2</b>

\* Source: NOAA NMFS (2008)

\*\*Shrimper Vessels not included (n < 3)

\*\*\*Total also includes revenue from species groups not listed



**Table 39. 2005 Average Ex-Vessel Revenue for CA/OR/WA Survey Vessel Types\***

FEAM Vessel Type**	2005 Average Revenue (\$)							
	Sablefish Fixed Gear	Groundfish Fixed Gear	HMS	Crabber	Salmon Troller	Other > \$15,000	Other ≤ \$15,000	Weighted Average
<b>Number of Vessels</b>	10	14	4	22	78	4	60	192
<b>Species Group</b>								
Whiting	0	0	0	0	0	0	0	0
Groundfish	53,858	32,803	0	9,066	1,153	7,032	1,712	7,386
Salmon Troll	14,785	3,124	13,717	15,577	33,009	0	5,602	18,229
Salmon Net	0	0	0	0	4	0	46	16
Crab	9,840	11,050	5,735	88,215	6,566	1,720	174	14,303
Shrimp	0	0	0	0	0	0	0	0
HMS	4,315	28	69,865	8,875	3,073	31	85	3,975
Pelagic Species	0	0	0	6	0	0	0	1
Halibut	2,061	1,028	194	925	367	15,083	114	791
<b>Total***</b>	<b>84,860</b>	<b>51,044</b>	<b>89,510</b>	<b>122,965</b>	<b>45,410</b>	<b>91,023</b>	<b>7,732</b>	<b>46,857</b>
	2005 Average Ex-Vessel Revenue Shares (%)							
Whiting	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundfish	63.5	64.3	0.0	7.4	2.5	7.7	22.1	15.8
Salmon Troll	17.4	6.1	15.3	12.7	72.7	0.0	72.4	38.9
Salmon Net	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0
Crab	11.6	21.6	6.4	71.7	14.5	1.9	2.3	30.5
Shrimp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HMS	5.1	0.1	78.1	7.2	6.8	0.0	1.1	8.5
Pelagic Species	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Halibut	2.4	2.0	0.2	0.8	0.8	16.6	1.5	1.7
<b>Total</b>	<b>100.0</b>	<b>94.1</b>	<b>100.0</b>	<b>99.8</b>	<b>97.3</b>	<b>26.2</b>	<b>100.0</b>	<b>95.4</b>

\* Source: NOAA NMFS (2008)

\*\*Shrimper Vessels not included (n < 3)

\*\*\*Total also includes revenue from species groups not listed

**Table 40. 2006 Average Ex-Vessel Revenue for Oregon Vessel Types (*All Active Fishermen*)\***

FEAM Vessel Type**	2006 Average Revenue (\$)						
	Sablefish Fixed Gear	Groundfish Fixed Gear	HMS	Crabber	Salmon Troller	Other ≤ \$15,000	Weighted Average
<b>Number of Vessels</b>	17	19	22	81	46	193	378
<b>Species Group</b>							
Whiting	0	0	0	0	0	0	0
Groundfish	23,369	23,689	2,021	3,881	872	1,862	4,248
Salmon Troll	3,957	2,015	8,539	5,230	20,115	2,708	5,728
Salmon Net	0	0	0	0	0	0	0
Crab	265	0	0	0	0	0	12
Shrimp	2,927	12,787	2,547	108,791	2,532	273	24,683
HMS	3,286	1,276	53,553	11,606	10,530	512	7,359
Pelagic Species	0	0	0	1	0	0	0
Halibut	2,043	1,313	406	1,825	316	29	626
<b>Total***</b>	<b>35,849</b>	<b>41,174</b>	<b>67,067</b>	<b>131,591</b>	<b>34,368</b>	<b>5,388</b>	<b>42,717</b>
	2006 Average Ex-Vessel Revenue Shares (%)						
Whiting	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundfish	65.2	57.5	3.0	2.9	2.5	34.6	9.9
Salmon Troll	11.0	4.9	12.7	4.0	58.5	50.3	13.4
Salmon Net	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crab	0.7	0.0	0.0	0.0	0.0	0.0	0.0
Shrimp	8.2	31.1	3.8	82.7	7.4	5.1	57.8
HMS	9.2	3.1	79.9	8.8	30.6	9.5	17.2
Pelagic Species	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Halibut	5.7	3.2	0.6	1.4	0.9	0.5	1.5
<b>Total</b>	<b>100.0</b>	<b>99.8</b>	<b>100.0</b>	<b>99.8</b>	<b>100.0</b>	<b>99.9</b>	<b>99.9</b>

\* Source: NOAA NMFS (2008)

\*\*Shrimper and "Other > \$15,000" vessels not included (n < 3)

\*\*\*Total also includes revenue from species groups not listed

**Table 41. 2005 Average Ex-Vessel Revenue for Oregon Vessel Types (*All Active Fishermen*)\***

FEAM Vessel Type**	2005 Average Revenue (\$)						Weighted Average
	Sablefish Fixed Gear	Groundfish Fixed Gear	HMS	Crabber	Salmon Troller	Other ≤ \$15,000	
<b>Number of Vessels</b>	18	23	11	50	123	152	377
<b>Species Group</b>							
Whiting	0	0	0	0	0	0	0
Groundfish	28,257	22,312	2,102	4,148	751	1,798	4,413
Salmon Troll	5,740	1,945	15,905	13,225	32,108	4,513	10,327
Salmon Net	0	0	0	0	6	0	1
Crab	0	0	0	0	0	0	0
Shrimp	6,485	10,369	2,086	70,689	5,260	140	16,793
HMS	1,631	211	45,300	8,537	6,492	223	5,454
Pelagic Species	0	0	0	0	0	0	0
Halibut	1,630	564	11	1,111	396	92	436
<b>Total***</b>	<b>43,744</b>	<b>35,413</b>	<b>65,407</b>	<b>97,740</b>	<b>45,022</b>	<b>6,765</b>	<b>37,431</b>
	2005 Average Ex-Vessel Revenue Shares (%)						
Whiting	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundfish	64.6	63.0	3.2	4.2	1.7	26.6	11.8
Salmon Troll	13.1	5.5	24.3	13.5	71.3	66.7	27.6
Salmon Net	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shrimp	14.8	29.3	3.2	72.3	11.7	2.1	44.9
HMS	3.7	0.6	69.3	8.7	14.4	3.3	14.6
Pelagic Species	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Halibut	3.7	1.6	0.0	1.1	0.9	1.4	1.2
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

\* Source: NOAA NMFS (2008)

\*\*Shrimper and "Other > \$15,000" vessels not included (n < 3)

\*\*\*Total also includes revenue from species groups not listed

**Table 42. 2006 Average Ex-Vessel Revenue for CA/OR/WA Vessel Types (All Active Fishermen)\***

FEAM Vessel Type	2006 Average Revenue (\$)								
	Sablefish Fixed Gear	Groundfish Fixed Gear	HMS	Shrimper	Crabber	Salmon Troller	Other > \$15,000	Other ≤ \$15,000	Weighted Average
<b>Number of Vessels</b>	49	81	50	4	232	170	14	501	1101
<b>Species Group</b>									
Whiting	0	0	0	62	0	0	0	0	0
Groundfish	22,442	23,201	2,484	6,667	3,602	892	4,301	1,770	4,599
Salmon Troll	4,305	2,551	6,779	0	6,851	24,732	127	2,949	7,293
Salmon Net	0	9	0	0	5	47	192	14	18
Crab	160	528	0	72,650	4	47	31	2	320
Shrimp	2,507	5,777	1,783	76	107,386	6,953	1,106	339	24,488
HMS	1,440	342	56,958	0	7,326	3,718	73	346	4,952
Pelagic Species	16	9	58	29	3	98	848	3	32
Halibut	815	8,711	244	1,872	1,125	448	394	217	1,105
<b>Total**</b>	<b>32,776</b>	<b>42,000</b>	<b>71,257</b>	<b>83,064</b>	<b>126,531</b>	<b>37,334</b>	<b>80,871</b>	<b>5,679</b>	<b>44,126</b>
<b>2006 Average Ex-Vessel Revenue Shares (%)</b>									
Whiting	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Groundfish	68.5	55.2	3.5	8.0	2.8	2.4	5.3	31.2	10.4
Salmon Troll	13.1	6.1	9.5	0.0	5.4	66.2	0.2	51.9	16.5
Salmon Net	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.0
Crab	0.5	1.3	0.0	87.5	0.0	0.1	0.0	0.0	0.7
Shrimp	7.6	13.8	2.5	0.1	84.9	18.6	1.4	6.0	55.5
HMS	4.4	0.8	79.9	0.0	5.8	10.0	0.1	6.1	11.2
Pelagic Species	0.1	0.0	0.1	0.0	0.0	0.3	1.0	0.1	0.1
Halibut	2.5	20.7	0.3	2.3	0.9	1.2	0.5	3.8	2.5
<b>Total</b>	<b>96.7</b>	<b>97.9</b>	<b>95.9</b>	<b>97.9</b>	<b>99.8</b>	<b>98.9</b>	<b>8.7</b>	<b>99.3</b>	<b>97.0</b>

\* Source: NOAA NMFS (2008)

\*\*Total also includes revenue from species groups not listed

**Table 43. 2005 Average Ex-Vessel Revenue for CA/OR/WA Vessel Types (*All Active Fishermen*)\***

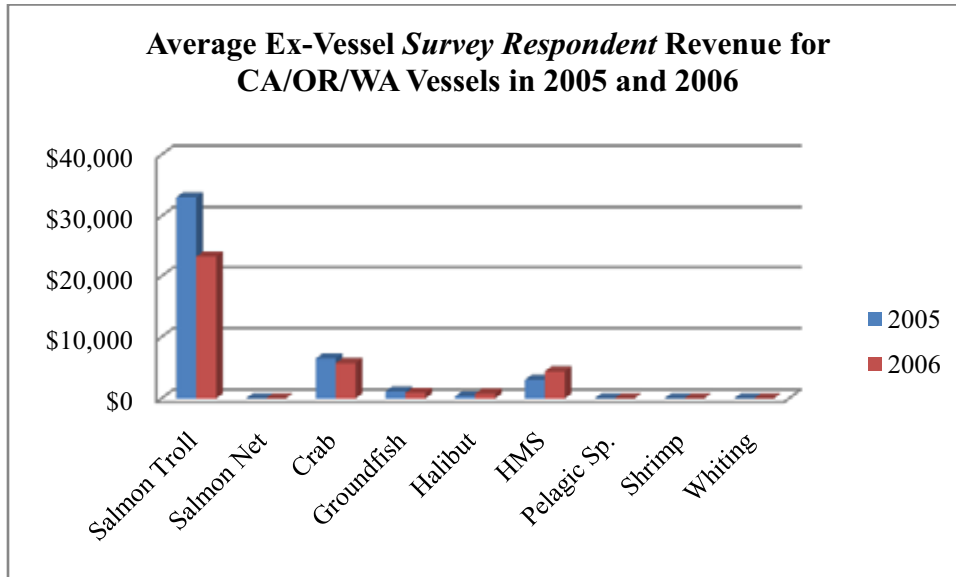
FEAM Vessel Type	2005 Average Revenue (\$)								
	Sablefish Fixed Gear	Groundfish Fixed Gear	HMS	Shrimper	Crabber	Salmon Troller	Other > \$15,000	Other ≤ \$15,000	Weighted Average
<b>Number of Vessels</b>	56	86	27	4	122	409	11	436	1151
<b>Species Group</b>									
Whiting	0	0	0	0	0	0	0	0	0
Groundfish	29,151	22,795	1,838	6,782	5,485	813	7,047	2,013	4,128
Salmon Troll	3,659	1,928	14,979	1,647	13,674	36,869	7,004	4,143	15,301
Salmon Net	0	11	0	168	62	31	0	37	19
Crab	0	548	0	64,551	1,686	12	0	0	449
Shrimp	4,433	4,478	1,206	214	76,834	9,036	4	225	11,935
HMS	969	71	54,103	0	5,954	3,485	1,841	104	3,209
Pelagic Species	1	47	0	8	0	3	1	8	5
Halibut	739	7,685	149	2,062	1,020	303	651	183	843
<b>Total**</b>	<b>39,372</b>	<b>40,684</b>	<b>73,766</b>	<b>75,783</b>	<b>104,736</b>	<b>51,261</b>	<b>99,672</b>	<b>6,761</b>	<b>37,225</b>
	<b>2005 Average Ex-Vessel Revenue Shares (%)</b>								
Whiting	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundfish	74.0	56.0	2.5	8.9	5.2	1.6	7.1	29.8	11.1
Salmon Troll	9.3	4.7	20.3	2.2	13.1	71.9	7.0	61.3	41.1
Salmon Net	0.0	0.0	0.0	0.2	0.1	0.1	0.0	0.5	0.1
Crab	0.0	1.3	0.0	85.2	1.6	0.0	0.0	0.0	1.2
Shrimp	11.3	11.0	1.6	0.3	73.4	17.6	0.0	3.3	32.1
HMS	2.5	0.2	73.3	0.0	5.7	6.8	1.8	1.5	8.6
Pelagic Species	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Halibut	1.9	18.9	0.2	2.7	1.0	0.6	0.7	2.7	2.3
<b>Total</b>	<b>98.9</b>	<b>92.3</b>	<b>98.0</b>	<b>99.5</b>	<b>100.0</b>	<b>98.6</b>	<b>16.6</b>	<b>99.3</b>	<b>96.4</b>

\* Source: NOAA NMFS (2008)

\*\*Total also includes revenue from species groups not listed

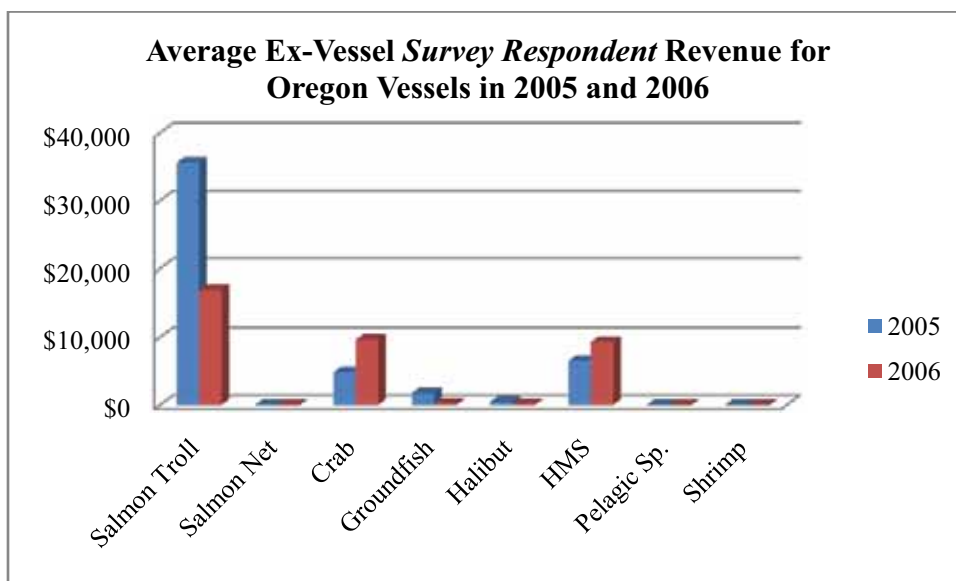
The nearly \$10,000 reduction in average ex-vessel salmon revenues from 2005 to 2006 for CA/OR/WA salmon fishermen are shown in Figure 6. The only noticeable increase in ex-vessel revenue from 2005 to 2006 is for HMS. This increase may indicate a shift in strategy by targeting albacore instead of salmon during the 2006 season. Figure 7 also shows the sharp decline in Oregon average ex-vessel revenue (over \$13,000) from 2005 to 2006. Revenue from salmon caught by troll gear was \$18,000 less in 2006 from 2005. Oregon salmon fishermen appear to have honed their efforts to harvesting crab and HMS species, however, as these revenues increased in 2006.

**Figure 6: Average Ex-Vessel Survey Respondent Revenue for CA/OR/WA Vessels in 2005 and 2006\***



\* Source: NOAA NMFS (2008)

**Figure 7: Average Ex-Vessel Survey Respondent Revenue for Oregon Vessels in 2005 and 2006\***



\* Source: NOAA NMFS (2008)

While Oregon's total net revenue is only 45 percent of CA/OR/WA total net revenue in 2006, on average individual Oregon vessels generated similar net revenues to other west coast vessels (Table 44). Oregon groundfish fixed gear and HMS vessels performed less well compared to CA/OR/WA vessels, however, in 2006. But average net revenue for 2006 Oregon crabbers was over \$33,000 higher than CA/OR/WA vessels. When comparing across years (Tables 44 and 45), total and average net revenues of salmon trollers diverge dramatically. Total 2006 net revenue for CA/OR/WA and Oregon were down by 173 percent and 616 percent, respectively, from 2005. Although 2006 was a dismal year for salmon fishermen, west coast and Oregon crabbers vastly increased their net revenues from 2005.

**Table 44: CA/OR/WA Survey Respondent Net Revenue by Vessel Type in 2006**

FEAM Vessel Type	2006 Net Revenue (\$)			
	CA/OR/WA		Oregon	
	Total	Average	Total	Average
Salmon Troller	-72,700	-2,693	-21,110	-2,111
Crabber	1,988,224	48,493	1,060,197	81,554
Groundfish Fixed Gear	15,839	1,584	-38,626	-6,438
HMS	67,047	5,587	-115,239	-28,810
Sablefish Fixed Gear	17,284	1,920	25,231	5,046
Other > \$15,000	46,604	6,658	0	n/a
Other ≤ \$15,000	-728,035	-9,455	-314,491	-9,828
<b>Total</b>	<b>1,334,262</b>	<b>7,291</b>	<b>595,962</b>	<b>8,514</b>

\* Source: NOAA NMFS (2008)

**Table 45: CA/OR/WA Survey Respondent Net Revenue by Vessel Type in 2005**

FEAM Vessel Type	2005 Net Revenue (\$)			
	CA/OR/WA		Oregon	
	Total	Average	Total	Average
Salmon Troller	99,848	1,280	4,086	146
Crabber	390,189	17,736	-53,574	-6,697
Groundfish Fixed Gear	-22,791	-1,628	-12,078	-1,725
HMS	28,111	7,028	n/a	n/a
Sablefish Fixed Gear	-72,421	-7,242	4,891	978
Other > \$15,000	-83,942	-20,985	n/a	n/a
Other ≤ \$15,000	-358,093	-5,968	-101,265	-3,492
<b>Total</b>	<b>-19,099</b>	<b>-99</b>	<b>-157,941</b>	<b>-2,025</b>

\* Source: NOAA NMFS (2008)