DATA APPENDIX

TO

PACIFIC COAST GROUNDFISH LIMITED ENTRY FIXED GEAR SABLEFISH PERMIT STACKING (CATCH SHARES) PROGRAM REVIEW

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FOREWORD

This Data Appendix provides the tables which contain the numerical data that generated the graphs and figures displayed in the Pacific Coast Groundfish Limited Entry Fixed Gear Sablefish Permit Stacking (Catch Shares) Program Review (August 2014). The figures in the program review provided the necessary information for the Council's assessment of the sablefish program and the original data behind the figures is maintained at the Council office in Excel spreadsheets. However, to assure the data gathered in the program review is easily accessible to the public and identifiable for any future assessments, staff has assembled this Data Appendix.

The tables in this appendix follow the order of the original figures in the program review. However, some tables contain data for more than one figure. Each table heading references the original figure or figures (e.g., Table 1 provides the data for Figure 3-1 (the first figure in the program review), while Table 4 provides the data for both Figure 3-4 and Figure 3-5). A rendition of the actual figure or figures from the program review (sometimes at a reduced scale) accompanies each table for additional reference and visualization of the data.

LIST OF TABLES

TABLE OF FIGURES

Table 1. Data for Figure 3-1: Average duration in days from first to last day of landings for vessels participating in the primary sablefish fishery (1998-2013).

						Season Duration (days)		Average Season Duration (days)		
Year	# of vessels	Total lbs landed	Avg lbs per vessel	Earliest Date	Latest Date	Longest Duration	Shortest Duration	Unweighted	Weighted*	Percent Change
1998	118	2,116,139	14,202	8/1/1998	8/7/1998	7	1	3	3	-1%
1999	144	4,331,380	29,070	8/17/1999	8/25/1999	9	1	4	5	10%
2000	142	3,896,169	26,149	8/6/1999	8/15/2000	10	1	4	4	7%
2001	106	3,746,353	25,143	8/15/2001	10/31/2001	75	1	33	37	13%
2002	101	2,502,820	24,780	4/4/2002	10/31/2002	196	1	65	72	12%
2003	97	3,641,530	24,440	4/2/2003	10/31/2003	167	1	63	76	20%
2004	92	4,323,320	46,993	4/3/2004	10/31/2004	206	1	60	71	18%
2005	80	4,315,698	28,964	4/2/2005	10/31/2005	183	1	64	68	6%
2006	82	4,354,658	29,226	4/6/2006	10/31/2006	195	1	57	57	0%
2007	86	3,326,913	22,328	4/2/2007	10/31/2007	178	1	51	52	0%
2008	84	3,283,974	39,095	4/2/2008	10/31/2008	188	1	54	52	-2%
2009	86	4,086,828	27,428	4/2/2009	10/31/2009	206	1	73	78	7%
2010	90	3,709,787	24,898	4/2/2010	10/31/2010	197	1	60	65	8%
2011	100	3,165,060	21,242	4/2/2011	10/31/2011	203	1	69	81	17%
2012	97	2,955,164	30,466	4/3/2012	10/31/2012	202	1	75	78	4%
2013	90	2,127,981	14,282	4/2/2013	10/31/2013	211	1	73	72	-1%
Overall Average Percent Change										7%

* Each vessel's season duration is weighted by its total landings during the year. This adjusts the fleet average season length to reflect invlovement levels by vessels participating in the sector. For example, the season durations for vessels making a few, small landings are discounted, while vessels making many, relatively large landings would be weighted relatively more heavily in the calculation of fleet average season duration.

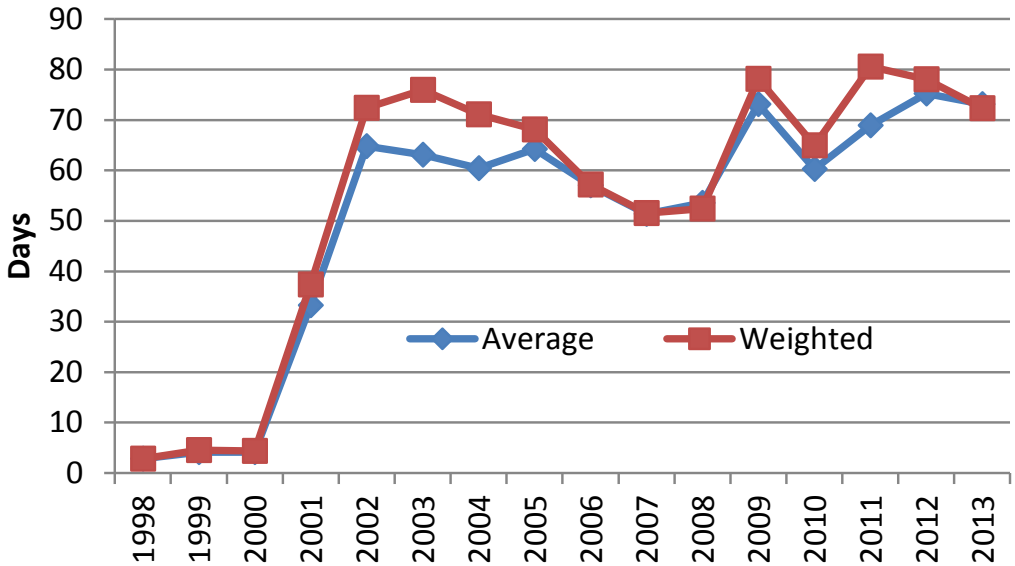

Figure 3-1.

Table 2. Data for Figure 3-2: Number of vessels participating in the LEFG primary sablefish fishery from 1998 to 2013. Vessel counts for years prior to 1998 are estimated based on vessels in the LE fishery that landed at least 1 mt of sablefish north of Santa Barbara County within the appropriate season periods.

Year	Vessels in Primary Fishery
1996	164
1997	163
1998	118
1999	144
2000	142
2001	106
2002	101
2003	97
2004	92
2005	80
2006	82
2007	86
2008	84
2009	86
2010	90
2011	100
2012	97
2013	90

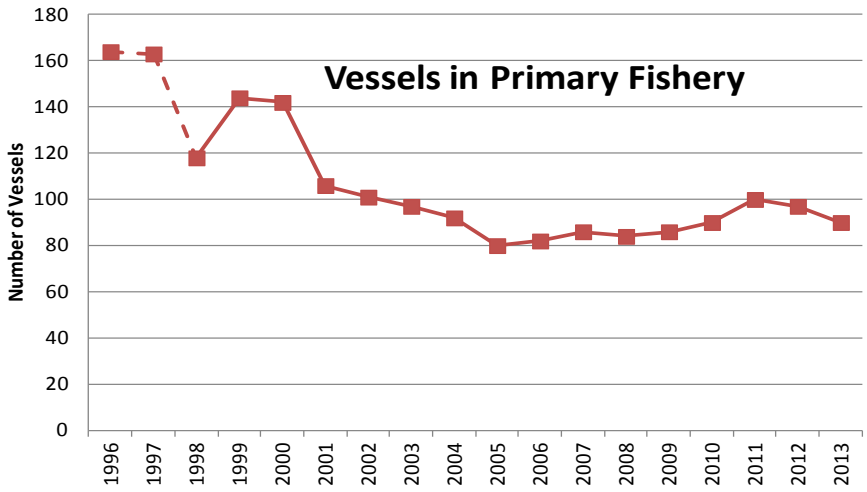

Figure 3-2.

Table 3. Data for Figure 3-3: LEFG Sablefish fishery allocations by total, primary, and DTL fisheries, 1996-2013. Prior to 2002 there were no explicit allocations to the primary and DTL fisheries.

Sablefish LEFG sector allocations (mt)			
Year	Total	Primary Fishery	DTL
1996	2,478.425		
1997	2,478.425		
1998	1,652.283		
1999	2,516.237		
2000	2,429.769		
2001	2,352.184		
2002	1,486.159	1,263.235	222.924
2003	2,194.611	1,865.419	329.192
2004	2,544.728	2,163.018	381.709
2005	2,538.182	2,157.454	380.727
2006	2,481.637	2,109.392	372.246
2007	1,919.990	1,631.991	287.998
2008	1,919.990	1,631.991	287.998
2009	2,415.084	2,052.822	362.263
2010	2,462.345	2,092.993	369.352
2011	1,880.302	1,598.256	282.045
2012	1,822.767	1,549.352	273.415
2013	1,360.245	1,156.208	204.037

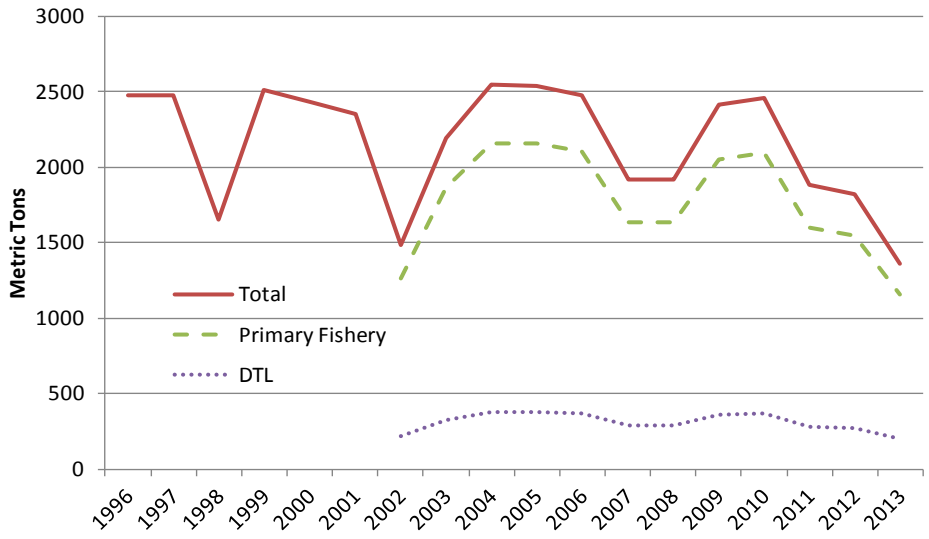

Figure 3-3.

Table 4. Data for Figure 3-4: LEFG sablefish allocations and landings, 1996 through 2013. Years prior to 2002 include the mop-up and DTL fisheries, while years from 2002 to 2013 are for the primary season only. And--Data for Figure 3-5: Pre- and post-program LEFG sablefish allocations and landings as a percent of the allocations, 1996 through 2013.

Sablefish LEFG sector allocations & landings (mt)			
Year	Allocation	Landings	% landed
1996	2,478	2,522	102%
1997	2,478	2,764	112%
1998	1,652	1,481	90%
1999	2,516	2,394	95%
2000	2,430	2,373	98%
2001	2,352	1,848	79%
2002	1,263	1,135	90%
2003	1,865	1,652	89%
2004	2,163	1,961	91%
2005	2,157	1,958	91%
2006	2,109	1,976	94%
2007	1,632	1,510	92%
2008	1,632	1,490	91%
2009	2,053	1,856	90%
2010	2,093	1,683	80%
2011	1,598	1,437	90%
2012	1,549	1,340	87%
2013	1,156	968	84%
average 2002-2012			90%
	= preprogram		

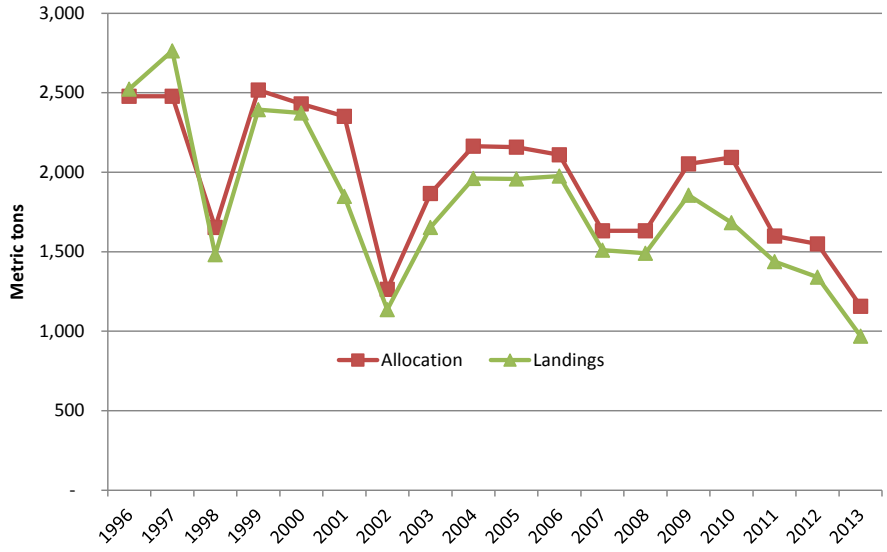

Figure 3-4.

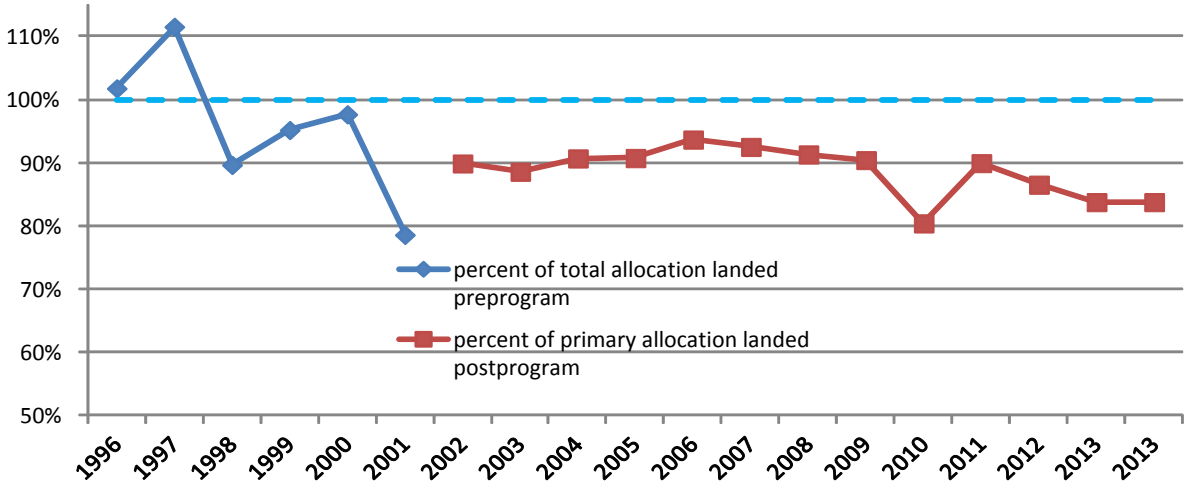
110%
100%
90%
80%
70%
60%
50%
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2013
percent of total allocation landed preprogram
percent of primary allocation landed postprogram

Figure 3-5.

Table 5. Data for Figure 3-6: Cumulative share of landings by the number of vessels participating in the LEFG primary sablefish fishery during selected years from 1996-2012.

Vessel Count	1996	1997	1998	2000	2002	2004	2006	2008	2010	2012
1	0.0005	0.0004	0.0004	0.0003	0.0005	0.0001	0.0001	0.0010	0.0001	0.0006
2	0.0011	0.0009	0.0008	0.0012	0.0031	0.0002	0.0033	0.0028	0.0009	0.0012
3	0.0017	0.0014	0.0015	0.0021	0.0062	0.0005	0.0068	0.0047	0.0026	0.0035
4	0.0023	0.0019	0.0028	0.0032	0.0096	0.0008	0.0105	0.0070	0.0046	0.0062
5	0.0030	0.0024	0.0046	0.0043	0.0131	0.0010	0.0142	0.0096	0.0072	0.0094
6	0.0037	0.0030	0.0066	0.0055	0.0167	0.0017	0.0178	0.0126	0.0108	0.0127
7	0.0045	0.0039	0.0086	0.0068	0.0202	0.0030	0.0215	0.0155	0.0145	0.0160
8	0.0053	0.0050	0.0108	0.0082	0.0239	0.0043	0.0252	0.0193	0.0181	0.0195
9	0.0063	0.0062	0.0131	0.0099	0.0275	0.0067	0.0289	0.0230	0.0219	0.0233
10	0.0074	0.0076	0.0155	0.0118	0.0312	0.0092	0.0327	0.0267	0.0258	0.0271
11	0.0085	0.0091	0.0181	0.0137	0.0349	0.0119	0.0364	0.0305	0.0296	0.0310
12	0.0097	0.0108	0.0206	0.0156	0.0386	0.0154	0.0401	0.0343	0.0334	0.0349
13	0.0109	0.0126	0.0235	0.0176	0.0423	0.0189	0.0439	0.0381	0.0373	0.0388
14	0.0122	0.0144	0.0265	0.0196	0.0460	0.0225	0.0476	0.0419	0.0412	0.0428
15	0.0135	0.0163	0.0297	0.0219	0.0498	0.0261	0.0514	0.0457	0.0450	0.0468
16	0.0149	0.0183	0.0329	0.0242	0.0535	0.0298	0.0551	0.0495	0.0489	0.0508
17	0.0163	0.0204	0.0363	0.0266	0.0573	0.0336	0.0589	0.0533	0.0528	0.0548
18	0.0177	0.0224	0.0398	0.0290	0.0610	0.0375	0.0626	0.0571	0.0567	0.0588
19	0.0191	0.0246	0.0433	0.0316	0.0648	0.0413	0.0664	0.0609	0.0606	0.0628
20	0.0206	0.0267	0.0468	0.0341	0.0685	0.0451	0.0717	0.0647	0.0645	0.0668
21	0.0221	0.0290	0.0504	0.0366	0.0723	0.0489	0.0783	0.0685	0.0684	0.0708
22	0.0236	0.0317	0.0544	0.0392	0.0761	0.0528	0.0848	0.0725	0.0723	0.0749
23	0.0251	0.0344	0.0584	0.0418	0.0799	0.0566	0.0914	0.0768	0.0762	0.0789
24	0.0267	0.0372	0.0625	0.0446	0.0837	0.0604	0.0980	0.0815	0.0802	0.0829
25	0.0283	0.0399	0.0667	0.0474	0.0875	0.0643	0.1046	0.0874	0.0841	0.0870
26	0.0299	0.0431	0.0709	0.0504	0.0913	0.0682	0.1118	0.0934	0.0880	0.0910
27	0.0315	0.0463	0.0755	0.0534	0.0950	0.0720	0.1192	0.0997	0.0919	0.0951
28	0.0333	0.0495	0.0803	0.0565	0.0988	0.0759	0.1267	0.1062	0.0959	0.0991
29	0.0352	0.0528	0.0850	0.0596	0.1026	0.0798	0.1342	0.1128	0.0998	0.1032
30	0.0370	0.0564	0.0897	0.0627	0.1064	0.0837	0.1416	0.1195	0.1037	0.1072
31	0.0389	0.0601	0.0948	0.0661	0.1102	0.0876	0.1491	0.1262	0.1077	0.1113
32	0.0409	0.0638	0.0999	0.0697	0.1140	0.0915	0.1566	0.1329	0.1117	0.1154
33	0.0429	0.0676	0.1051	0.0733	0.1179	0.0954	0.1641	0.1397	0.1172	0.1194
34	0.0450	0.0716	0.1102	0.0770	0.1217	0.0993	0.1716	0.1467	0.1228	0.1235
35	0.0471	0.0756	0.1154	0.0810	0.1255	0.1035	0.1791	0.1540	0.1286	0.1275
36	0.0492	0.0796	0.1207	0.0850	0.1294	0.1078	0.1866	0.1616	0.1347	0.1316
37	0.0513	0.0837	0.1260	0.0890	0.1333	0.1134	0.1943	0.1692	0.1415	0.1357
38	0.0536	0.0878	0.1314	0.0930	0.1372	0.1198	0.2022	0.1768	0.1483	0.1398
39	0.0559	0.0920	0.1369	0.0971	0.1410	0.1262	0.2110	0.1844	0.1552	0.1440
40	0.0583	0.0964	0.1423	0.1012	0.1451	0.1328	0.2202	0.1920	0.1621	0.1484

Vessel (continued)										
Count	**1996**	**1997**	**1998**	**2000**	**2002**	**2004**	**2006**	**2008**	**2010**	**2012**
41	0.0607	0.1008	0.1478	0.1055	0.1492	0.1395	0.2299	0.2000	0.1690	0.1529
42	0.0631	0.1053	0.1533	0.1098	0.1547	0.1464	0.2398	0.2103	0.1759	0.1574
43	0.0656	0.1098	0.1589	0.1141	0.1610	0.1532	0.2500	0.2207	0.1836	0.1622
44	0.0682	0.1146	0.1647	0.1184	0.1673	0.1602	0.2602	0.2312	0.1914	0.1678
45	0.0708	0.1196	0.1706	0.1228	0.1737	0.1673	0.2704	0.2417	0.1991	0.1739
46	0.0734	0.1245	0.1764	0.1271	0.1802	0.1746	0.2807	0.2523	0.2069	0.1803
47	0.0761	0.1294	0.1823	0.1316	0.1867	0.1821	0.2910	0.2630	0.2147	0.1867
48	0.0789	0.1346	0.1882	0.1361	0.1932	0.1898	0.3013	0.2743	0.2225	0.1933
49	0.0817	0.1397	0.1941	0.1407	0.1998	0.1975	0.3117	0.2856	0.2304	0.2001
50	0.0845	0.1449	0.2001	0.1454	0.2064	0.2057	0.3229	0.2970	0.2392	0.2071
51	0.0873	0.1501	0.2061	0.1500	0.2130	0.2157	0.3341	0.3084	0.2480	0.2142
52	0.0902	0.1554	0.2121	0.1547	0.2196	0.2261	0.3455	0.3198	0.2571	0.2213
53	0.0930	0.1608	0.2182	0.1594	0.2263	0.2367	0.3578	0.3313	0.2665	0.2284
54	0.0959	0.1663	0.2244	0.1642	0.2332	0.2473	0.3707	0.3427	0.2764	0.2355
55	0.0989	0.1719	0.2305	0.1690	0.2403	0.2579	0.3838	0.3542	0.2867	0.2426
56	0.1019	0.1776	0.2367	0.1739	0.2478	0.2685	0.3978	0.3657	0.2971	0.2497
57	0.1049	0.1833	0.2429	0.1789	0.2554	0.2792	0.4118	0.3791	0.3076	0.2569
58	0.1080	0.1891	0.2491	0.1840	0.2631	0.2900	0.4259	0.3930	0.3182	0.2642
59	0.1111	0.1949	0.2553	0.1891	0.2708	0.3008	0.4399	0.4072	0.3290	0.2716
60	0.1142	0.2007	0.2615	0.1943	0.2785	0.3117	0.4539	0.4213	0.3398	0.2792
61	0.1174	0.2065	0.2678	0.1994	0.2863	0.3230	0.4679	0.4356	0.3508	0.2872
62	0.1207	0.2125	0.2740	0.2045	0.2948	0.3345	0.4823	0.4500	0.3621	0.2952
63	0.1240	0.2186	0.2803	0.2097	0.3040	0.3462	0.4968	0.4647	0.3735	0.3033
64	0.1274	0.2247	0.2867	0.2149	0.3140	0.3578	0.5113	0.4795	0.3853	0.3114
65	0.1308	0.2309	0.2930	0.2200	0.3243	0.3696	0.5280	0.4966	0.3971	0.3195
66	0.1342	0.2371	0.2993	0.2252	0.3347	0.3827	0.5450	0.5138	0.4091	0.3276
67	0.1378	0.2433	0.3057	0.2305	0.3451	0.3963	0.5674	0.5315	0.4224	0.3366
68	0.1413	0.2496	0.3120	0.2357	0.3555	0.4107	0.5914	0.5498	0.4358	0.3476
69	0.1449	0.2560	0.3184	0.2410	0.3660	0.4252	0.6156	0.5684	0.4502	0.3587
70	0.1486	0.2625	0.3248	0.2463	0.3773	0.4402	0.6400	0.5870	0.4649	0.3698
71	0.1523	0.2690	0.3312	0.2516	0.3886	0.4559	0.6644	0.6072	0.4800	0.3819
72	0.1561	0.2755	0.3375	0.2569	0.4002	0.4719	0.6890	0.6282	0.4951	0.3957
73	0.1598	0.2820	0.3439	0.2623	0.4124	0.4881	0.7137	0.6496	0.5102	0.4099
74	0.1637	0.2887	0.3503	0.2676	0.4248	0.5055	0.7384	0.6748	0.5265	0.4241
75	0.1675	0.2953	0.3567	0.2730	0.4377	0.5240	0.7631	0.7001	0.5438	0.4389
76	0.1714	0.3020	0.3631	0.2783	0.4514	0.5448	0.7879	0.7254	0.5615	0.4539
77	0.1753	0.3087	0.3701	0.2837	0.4654	0.5667	0.8137	0.7507	0.5805	0.4691
78	0.1793	0.3155	0.3776	0.2891	0.4795	0.5893	0.8459	0.7782	0.6061	0.4843
79	0.1834	0.3222	0.3852	0.2945	0.4936	0.6121	0.8784	0.8057	0.6320	0.4996
80	0.1878	0.3290	0.3935	0.2999	0.5077	0.6360	0.9136	0.8390	0.6580	0.5148
81	0.1922	0.3359	0.4020	0.3053	0.5220	0.6600	0.9568	0.8752	0.6839	0.5304
82	0.1967	0.3427	0.4105	0.3107	0.5364	0.6851	1.0000	0.9113	0.7127	0.5485

Vessel (continued)										
Count	**1996**	**1997**	**1998**	**2000**	**2002**	**2004**	**2006**	**2008**	**2010**	**2012**
83	0.2012	0.3496	0.4194	0.3161	0.5534	0.7106		0.9556	0.7415	0.5667
84	0.2057	0.3565	0.4288	0.3214	0.5704	0.7361		1.0000	0.7711	0.5865
85	0.2102	0.3634	0.4386	0.3268	0.5882	0.7616			0.8013	0.6064
86	0.2148	0.3704	0.4486	0.3322	0.6061	0.7871			0.8352	0.6277
87	0.2196	0.3774	0.4589	0.3376	0.6243	0.8147			0.8721	0.6539
88	0.2245	0.3846	0.4693	0.3430	0.6429	0.8429			0.9092	0.6807
89	0.2294	0.3919	0.4797	0.3485	0.6617	0.8744			0.9546	0.7098
90	0.2343	0.3991	0.4903	0.3540	0.6820	0.9080			1.0000	0.7393
91	0.2394	0.4065	0.5010	0.3596	0.7028	0.9526				0.7692
92	0.2445	0.4138	0.5118	0.3654	0.7244	1.0000				0.8004
93	0.2499	0.4212	0.5226	0.3712	0.7480					0.8323
94	0.2554	0.4287	0.5335	0.3775	0.7727					0.8677
95	0.2610	0.4363	0.5444	0.3838	0.7974					0.9061
96	0.2666	0.4438	0.5554	0.3902	0.8222					0.9531
97	0.2725	0.4515	0.5664	0.3968	0.8547					1.0000
98	0.2783	0.4591	0.5775	0.4034	0.8873					
99	0.2842	0.4667	0.5888	0.4100	0.9201					
100	0.2902	0.4744	0.6023	0.4177	0.9558					
101	0.2963	0.4820	0.6176	0.4263	1.0000					
102	0.3025	0.4897	0.6330	0.4348						
103	0.3088	0.4973	0.6524	0.4437						
104	0.3152	0.5050	0.6719	0.4525						
105	0.3217	0.5129	0.6924	0.4615						
106	0.3282	0.5207	0.7142	0.4707						
107	0.3348	0.5285	0.7367	0.4798						
108	0.3414	0.5365	0.7595	0.4890						
109	0.3482	0.5444	0.7823	0.4983						
110	0.3553	0.5524	0.8052	0.5076						
111	0.3625	0.5604	0.8290	0.5169						
112	0.3697	0.5684	0.8528	0.5263						
113	0.3770	0.5764	0.8767	0.5356						
114	0.3845	0.5844	0.9008	0.5450						
115	0.3919	0.5924	0.9253	0.5544						
116	0.3994	0.6005	0.9499	0.5639						
117	0.4069	0.6086	0.9748	0.5733						
118	0.4145	0.6166	1.0000	0.5828						
119	0.4220	0.6248		0.5923						
120	0.4298	0.6329		0.6019						
121	0.4377	0.6411		0.6129						
122	0.4456	0.6493		0.6240						
123	0.4536	0.6575		0.6361						
124	0.4617	0.6657		0.6509						

Vessel (continued)										
Count	**1996**	**1997**	**1998**	**2000**	**2002**	**2004**	**2006**	**2008**	**2010**	**2012**
125	0.4699	0.6740		0.6672						
126	0.4781	0.6822		0.6836						
127	0.4866	0.6905		0.7003						
128	0.4952	0.6987		0.7185						
129	0.5042	0.7070		0.7368						
130	0.5132	0.7154		0.7558						
131	0.5223	0.7237		0.7752						
132	0.5315	0.7321		0.7950						
133	0.5408	0.7404		0.8150						
134	0.5501	0.7488		0.8351						
135	0.5594	0.7572		0.8553						
136	0.5688	0.7656		0.8758						
137	0.5787	0.7740		0.8963						
138	0.5886	0.7824		0.9170						
139	0.5986	0.7909		0.9377						
140	0.6087	0.7993		0.9584						
141	0.6190	0.8077		0.9792						
142	0.6296	0.8161		1.0000						
143	0.6403	0.8246								
144	0.6511	0.8330								
145	0.6625	0.8415								
146	0.6740	0.8499								
147	0.6854	0.8584								
148	0.6971	0.8669								
149	0.7092	0.8754								
150	0.7214	0.8839								
151	0.7337	0.8924								
152	0.7470	0.9009								
153	0.7607	0.9094								
154	0.7746	0.9180								
155	0.7892	0.9265								
156	0.8042	0.9351								
157	0.8196	0.9437								
158	0.8385	0.9523								
159	0.8599	0.9610								
160	0.8816	0.9698								
161	0.9041	0.9786								
162	0.9286	0.9887								
163	0.9611	1.0000								
164	1.0000									

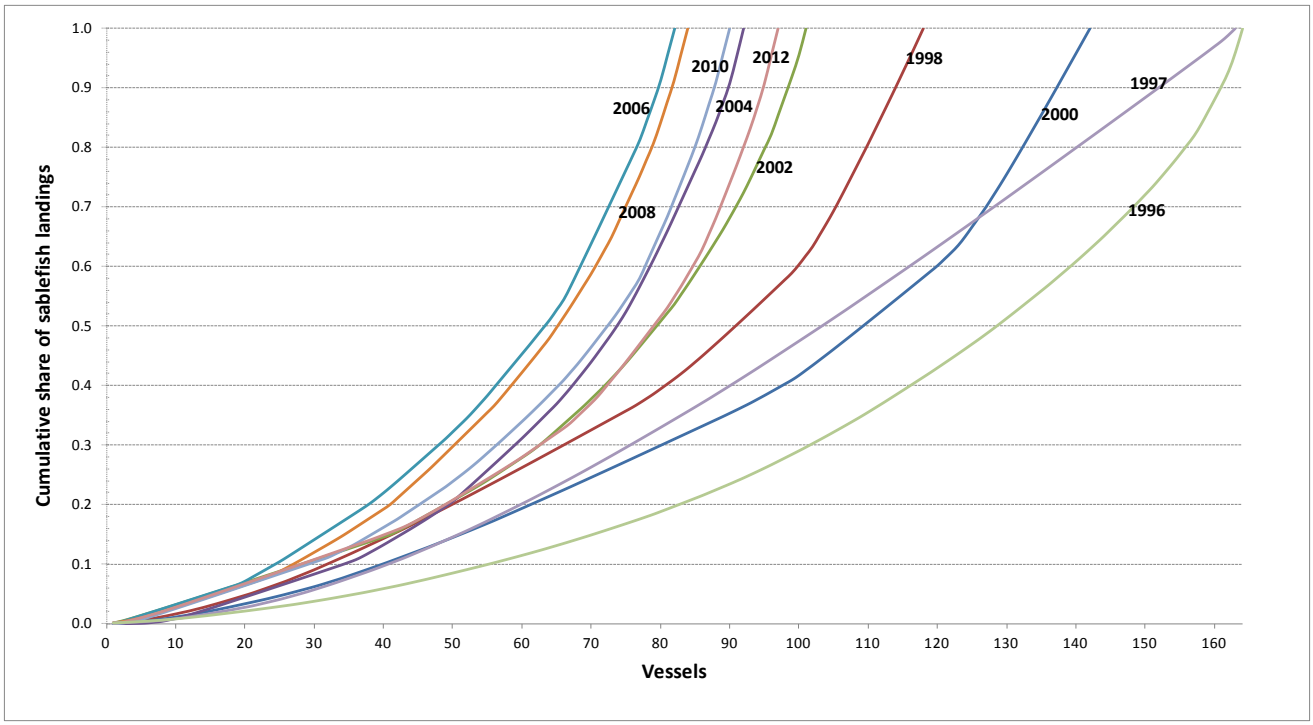
Cumulative share of sablefish landings
Vessels
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
2006
2010
2012
1998
1997
2004
2000
2002
2008
1996

Figure 3-6.

Table 6. Data for Figure 3-7: Concentration of landings by the cumulative share of vessels participating in the LEFG primary sablefish fishery for selected years from 1996-2012.

Cumulative % of Vessels																	
Equal Distr	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.01	0.0010901	0.000902	0.000773	0.000666	0.001177	0.001134	0.003109	0.000339	0.000243	0.001138	7.3E-05	0.000681	0.000978	0.001068	9.92E-05	0.001372	0.001238
0.02	0.0022776	0.00189	0.001455	0.002491	0.002132	0.002499	0.006202	0.00109	0.000243	0.002956	0.003277	0.00272	0.002837	0.002534	0.000945	0.002365	0.003485
0.03	0.0036883	0.00304	0.002843	0.003697	0.004294	0.004124	0.009634	0.00109	0.00049	0.004785	0.006815	0.005491	0.004706	0.00477	0.002617	0.004145	0.003485
0.04	0.0044639	0.003936	0.004625	0.005133	0.005453	0.005752	0.013112	0.003505	0.00075	0.006901	0.010489	0.008539	0.007034	0.00722	0.004624	0.006442	0.006249
0.05	0.0063093	0.006191	0.006566	0.008363	0.008244	0.00817	0.016658	0.006739	0.001016	0.010386	0.014166	0.011618	0.009611	0.010563	0.00716	0.009237	0.009354
0.06	0.0073822	0.007565	0.010774	0.010086	0.009927	0.010657	0.020224	0.010131	0.00169	0.010386	0.014166	0.014864	0.012566	0.014171	0.010795	0.012395	0.012662
0.07	0.009678	0.010791	0.013055	0.014334	0.013668	0.013632	0.023858	0.013578	0.002968	0.014165	0.017847	0.018214	0.012566	0.017838	0.014459	0.015732	0.016034
0.08	0.0122	0.014366	0.015526	0.016516	0.015602	0.01684	0.027517	0.017041	0.004292	0.017949	0.021531	0.018214	0.015541	0.017838	0.018137	0.019086	0.019481
0.09	0.0135033	0.016348	0.018073	0.021069	0.01762	0.020062	0.031184	0.020601	0.006671	0.021741	0.025229	0.021702	0.019262	0.021563	0.021947	0.022458	0.023278
0.1	0.0163003	0.020365	0.020629	0.023425	0.021917	0.023431	0.031184	0.024201	0.009233	0.021741	0.028942	0.025369	0.022994	0.025384	0.021947	0.022458	0.027104
0.11	0.0177169	0.0224	0.023549	0.025955	0.024225	0.026833	0.034876	0.027875	0.011923	0.025557	0.028942	0.029037	0.02675	0.029223	0.025772	0.025833	0.030954
0.12	0.0205633	0.026743	0.0297	0.031133	0.026627	0.030244	0.038571	0.031619	0.011923	0.029376	0.032671	0.032714	0.02675	0.033068	0.029597	0.029217	0.034861
0.13	0.023581	0.031652	0.032946	0.03391	0.031574	0.033669	0.042282	0.035367	0.015375	0.03321	0.036406	0.0364	0.030524	0.03692	0.033445	0.032608	0.038816
0.14	0.0251105	0.034392	0.036334	0.039731	0.034103	0.037137	0.046009	0.039138	0.018915	0.037047	0.040148	0.0364	0.034315	0.03692	0.037302	0.036	0.042786
0.15	0.0282523	0.039939	0.039753	0.042851	0.039206	0.040783	0.053501	0.042916	0.022477	0.037047	0.04389	0.040126	0.038109	0.040777	0.04116	0.039412	0.04677
0.16	0.0314918	0.046267	0.043259	0.049429	0.04182	0.04445	0.05725	0.046706	0.026069	0.040886	0.047633	0.043879	0.041907	0.044636	0.045024	0.042851	0.050766
0.17	0.033295	0.049508	0.050353	0.052872	0.047425	0.048125	0.061004	0.050499	0.029823	0.044729	0.047633	0.047635	0.045705	0.048496	0.048904	0.046293	0.054765
0.18	0.0370363	0.056428	0.054379	0.056454	0.050377	0.055651	0.064763	0.054328	0.03363	0.048574	0.051375	0.05139	0.049506	0.052369	0.052787	0.049838	0.058774
0.19	0.0408897	0.060092	0.05841	0.063668	0.053411	0.059435	0.068528	0.058159	0.037451	0.05242	0.055119	0.055146	0.049506	0.056258	0.052787	0.053433	0.062786
0.2	0.0429246	0.067604	0.062543	0.067439	0.059564	0.063233	0.072295	0.061993	0.041278	0.05242	0.058863	0.058903	0.053309	0.060148	0.056687	0.057053	0.0668
0.21	0.0470862	0.075579	0.066717	0.075195	0.062729	0.067042	0.076077	0.065832	0.04511	0.056266	0.062625	0.058903	0.057112	0.060148	0.060596	0.060711	0.070827
0.22	0.0513277	0.079619	0.070905	0.079183	0.069719	0.070887	0.07987	0.069673	0.048942	0.060116	0.062625	0.062665	0.060916	0.064038	0.064506	0.064372	0.074855
0.23	0.0535824	0.087776	0.080252	0.087301	0.073327	0.074748	0.083663	0.073516	0.052775	0.063967	0.066416	0.066437	0.064721	0.067929	0.068419	0.068117	0.07889
0.24	0.0582877	0.096398	0.084959	0.091601	0.076966	0.078642	0.087457	0.077358	0.052775	0.067946	0.071715	0.070214	0.068526	0.07182	0.072333	0.071883	0.082934
0.25	0.0606587	0.10082	0.089736	0.095903	0.084963	0.082548	0.091251	0.081202	0.056609	0.067946	0.078261	0.074081	0.068526	0.075712	0.076248	0.075659	0.086979
0.26	0.0655524	0.109814	0.094807	0.104639	0.088987	0.086477	0.095046	0.085045	0.060444	0.072049	0.084809	0.078644	0.072461	0.079609	0.080164	0.079446	0.091026
0.27	0.0707951	0.114628	0.099915	0.109054	0.097143	0.090443	0.09884	0.088889	0.064294	0.076963	0.084809	0.084465	0.076754	0.083555	0.084086	0.083252	0.095075
0.28	0.073421	0.124491	0.105053	0.117936	0.101247	0.094423	0.102635	0.088889	0.068156	0.082636	0.091359	0.084465	0.081486	0.083555	0.088012	0.087083	0.095075
0.29	0.0789147	0.134575	0.115354	0.122401	0.10978	0.098406	0.106431	0.092732	0.072019	0.082636	0.097984	0.090695	0.087369	0.087536	0.088012	0.090948	0.099128
0.3	0.0844833	0.139726	0.120666	0.131545	0.114104	0.102397	0.11023	0.096576	0.075882	0.088395	0.10461	0.097152	0.087369	0.091619	0.091937	0.094818	0.103181
0.31	0.08732	0.150081	0.12601	0.136203	0.118436	0.10639	0.114038	0.10042	0.079774	0.094657	0.111801	0.103676	0.093439	0.096038	0.095864	0.098695	0.107238
0.32	0.0930357	0.160818	0.131441	0.140879	0.127132	0.110382	0.117865	0.104267	0.08367	0.101126	0.119211	0.110265	0.09974	0.102069	0.09979	0.102573	0.111297
0.33	0.0959203	0.166289	0.13688	0.150545	0.131571	0.114381	0.121697	0.108124	0.087568	0.107662	0.119211	0.11687	0.106193	0.108518	0.103725	0.106456	0.115356

Cumulative % of Vessels (continued)																	
Equal Distr	**1996**	**1997**	**1998**	**1999**	**2000**	**2001**	**2002**	**2003**	**2004**	**2005**	**2006**	**2007**	**2008**	**2009**	**2010**	**2011**	**2012**
0.34	0.1018511	0.177612	0.142333	0.155386	0.140707	0.118379	0.125535	0.11199	0.091482	0.107662	0.12668	0.11687	0.112825	0.108518	0.107665	0.110352	0.119417
0.35	0.1079866	0.183334	0.153308	0.165083	0.14535	0.122382	0.129395	0.115861	0.091482	0.11436	0.134153	0.12348	0.1195	0.115159	0.111669	0.11425	0.123478
0.36	0.1110709	0.194865	0.158943	0.169971	0.149994	0.126386	0.133275	0.119743	0.095399	0.121102	0.141635	0.130091	0.1195	0.121844	0.117188	0.11815	0.127541
0.37	0.1174107	0.206549	0.164703	0.179771	0.159406	0.13039	0.137157	0.123635	0.099346	0.127844	0.149117	0.137126	0.126192	0.12858	0.122833	0.122052	0.131604
0.38	0.1239554	0.212521	0.170561	0.184675	0.164201	0.138398	0.141048	0.127532	0.103509	0.135427	0.149117	0.144348	0.132892	0.135318	0.122833	0.125956	0.135668
0.39	0.1273525	0.224745	0.176424	0.189588	0.173866	0.142459	0.1451	0.131457	0.107843	0.135427	0.156602	0.151718	0.139694	0.142066	0.128613	0.129861	0.139765
0.4	0.1342224	0.230926	0.18229	0.199446	0.17893	0.146543	0.149154	0.135645	0.11344	0.143103	0.164091	0.159142	0.146652	0.148872	0.134733	0.133766	0.144012
0.41	0.1377526	0.243337	0.194074	0.20438	0.184017	0.150656	0.154682	0.140602	0.119755	0.150794	0.171595	0.159142	0.154022	0.148872	0.141507	0.137681	0.148444
0.42	0.1449036	0.256012	0.200068	0.214332	0.19426	0.154785	0.160971	0.146371	0.12618	0.158487	0.179104	0.166575	0.154022	0.155682	0.148349	0.141603	0.15288
0.43	0.1522976	0.262468	0.206091	0.219322	0.199394	0.15901	0.167287	0.152385	0.132764	0.166197	0.179104	0.174083	0.161574	0.162596	0.155196	0.145617	0.15738
0.44	0.1560548	0.275482	0.21214	0.229306	0.209691	0.163238	0.173668	0.158521	0.139533	0.166197	0.18665	0.181594	0.169151	0.169619	0.162054	0.151378	0.162221
0.45	0.1636702	0.288662	0.218245	0.234304	0.214853	0.167475	0.180175	0.165101	0.146357	0.173959	0.194274	0.189106	0.176753	0.176714	0.168974	0.157209	0.167813
0.46	0.171401	0.295324	0.224385	0.239302	0.225227	0.171919	0.186692	0.171688	0.146357	0.181791	0.202155	0.196618	0.184362	0.18394	0.175927	0.163096	0.173867
0.47	0.1753124	0.308732	0.236678	0.249317	0.230459	0.17649	0.193238	0.178314	0.153226	0.192272	0.210988	0.20413	0.191983	0.191534	0.175927	0.169017	0.18027
0.48	0.1834256	0.315476	0.242859	0.254344	0.235743	0.182256	0.199818	0.184988	0.160194	0.192272	0.210988	0.20413	0.191983	0.191534	0.18364	0.175369	0.186694
0.49	0.1922417	0.329026	0.249065	0.264437	0.246323	0.188536	0.206408	0.191696	0.167334	0.202834	0.220247	0.211652	0.199971	0.199266	0.191357	0.181726	0.193255
0.5	0.1966961	0.342712	0.255295	0.269486	0.251623	0.194855	0.212999	0.19842	0.174582	0.21342	0.229892	0.219225	0.210272	0.207004	0.199076	0.188291	0.200102
0.51	0.2057006	0.349573	0.261528	0.279598	0.26227	0.201474	0.219637	0.205196	0.182077	0.22401	0.239818	0.227749	0.220741	0.214787	0.20687	0.194882	0.207096
0.52	0.2102371	0.363366	0.26777	0.284658	0.267607	0.208292	0.226302	0.212174	0.189796	0.234601	0.249963	0.236448	0.231241	0.222755	0.214704	0.201513	0.214183
0.53	0.2196213	0.377395	0.280344	0.289724	0.272957	0.215134	0.233179	0.212174	0.197526	0.234601	0.260187	0.245736	0.241742	0.23308	0.222549	0.20822	0.214183
0.54	0.2293985	0.384626	0.286657	0.299869	0.283722	0.222025	0.240301	0.219333	0.205719	0.245244	0.260187	0.245736	0.241742	0.23308	0.230402	0.215026	0.22127
0.55	0.2343145	0.399148	0.29298	0.304942	0.289108	0.228948	0.247827	0.226938	0.215664	0.255922	0.270425	0.255499	0.252251	0.243555	0.239197	0.221866	0.228376
0.56	0.2445321	0.406451	0.299313	0.315093	0.299887	0.235874	0.255417	0.234556	0.226147	0.266943	0.280707	0.265365	0.263	0.254243	0.239197	0.228708	0.235484
0.57	0.255401	0.421231	0.305669	0.32017	0.305277	0.242809	0.263059	0.242181	0.226147	0.278089	0.290991	0.275731	0.274291	0.264943	0.24803	0.235754	0.242596
0.58	0.2609818	0.436255	0.312029	0.330327	0.310666	0.256689	0.270755	0.249868	0.236679	0.278089	0.301277	0.286164	0.285616	0.276398	0.257068	0.243009	0.249731
0.59	0.2724852	0.443848	0.324775	0.335406	0.321446	0.263629	0.278485	0.257563	0.247268	0.289538	0.301277	0.296633	0.297017	0.288	0.266527	0.250575	0.256892
0.6	0.278341	0.459092	0.331154	0.340486	0.326836	0.270603	0.286296	0.265316	0.257882	0.301053	0.311682	0.307137	0.297017	0.299647	0.27641	0.258152	0.264193
0.61	0.2901845	0.466726	0.337533	0.350767	0.337632	0.277611	0.294802	0.273116	0.268499	0.312591	0.322895	0.307137	0.308429	0.299647	0.28673	0.265759	0.271591
0.62	0.3025499	0.482016	0.343912	0.355926	0.343039	0.285306	0.304006	0.281715	0.279209	0.326052	0.334121	0.317649	0.319843	0.311314	0.297056	0.27339	0.279155
0.63	0.3088302	0.497338	0.350292	0.367107	0.348453	0.293118	0.314033	0.292073	0.289991	0.326052	0.345474	0.328792	0.331262	0.322986	0.307555	0.281032	0.287162
0.64	0.321653	0.505048	0.356677	0.373286	0.359647	0.301076	0.324324	0.302472	0.300811	0.340459	0.345474	0.339988	0.342711	0.33466	0.318246	0.28874	0.295198
0.65	0.3347502	0.520682	0.370115	0.386486	0.365385	0.309058	0.334692	0.3129	0.311725	0.354878	0.357795	0.351255	0.354213	0.346334	0.318246	0.296496	0.30329
0.66	0.3414174	0.536464	0.377568	0.393155	0.37748	0.317046	0.345077	0.323333	0.323045	0.369335	0.37073	0.362547	0.354213	0.358018	0.329003	0.304312	0.311396
0.67	0.3552616	0.544441	0.385209	0.399833	0.383762	0.325063	0.355464	0.33377	0.334533	0.383943	0.383839	0.374009	0.365736	0.369717	0.339799	0.312136	0.319505
0.68	0.3696643	0.560416	0.393525	0.413706	0.396793	0.333082	0.366007	0.344298	0.334533	0.383943	0.397841	0.374009	0.379109	0.369717	0.350784	0.320368	0.327625
0.69	0.3770308	0.568408	0.401985	0.421088	0.403375	0.34261	0.377283	0.355798	0.346174	0.39864	0.397841	0.385545	0.393028	0.381444	0.362073	0.32866	0.336641
0.7	0.3918952	0.584423	0.41944	0.436503	0.409993	0.352214	0.388623	0.367325	0.357816	0.413355	0.411844	0.398742	0.407151	0.393632	0.373501	0.33911	0.347613

Cumulative % of Vessels (continued)																	
Equal Distr	**1996**	**1997**	**1998**	**1999**	**2000**	**2001**	**2002**	**2003**	**2004**	**2005**	**2006**	**2007**	**2008**	**2009**	**2010**	**2011**	**2012**
0.71	0.3993981	0.600492	0.428757	0.444669	0.426252	0.362482	0.400182	0.378877	0.369553	0.428136	0.425856	0.412827	0.421307	0.406017	0.385278	0.349862	0.358666
0.72	0.4144543	0.608552	0.438599	0.461346	0.434808	0.373161	0.41238	0.390455	0.382689	0.428136	0.439876	0.42702	0.421307	0.418881	0.397141	0.36074	0.369824
0.73	0.4298363	0.624781	0.448566	0.469718	0.452547	0.384032	0.424777	0.402443	0.3963	0.443184	0.453905	0.441335	0.435598	0.431865	0.409097	0.371807	0.381854
0.74	0.4377068	0.641115	0.458866	0.478125	0.461531	0.394976	0.437747	0.415877	0.410693	0.458655	0.467935	0.441335	0.44997	0.431865	0.409097	0.383222	0.395713
0.75	0.4536091	0.649308	0.469264	0.495345	0.47067	0.40592	0.451413	0.429858	0.425233	0.475151	0.467935	0.455672	0.464658	0.44543	0.422416	0.396524	0.409914
0.76	0.4698729	0.665734	0.490339	0.50402	0.489028	0.4179	0.465381	0.444148	0.440169	0.492477	0.482331	0.470113	0.479481	0.459571	0.435837	0.4101	0.42413
0.77	0.4781187	0.673974	0.501044	0.521406	0.498297	0.429911	0.479456	0.458527	0.455892	0.492477	0.496772	0.484564	0.479481	0.473842	0.450193	0.424761	0.438882
0.78	0.4952402	0.690468	0.511768	0.53012	0.516918	0.457129	0.493563	0.458527	0.471929	0.509808	0.511266	0.49922	0.496632	0.488266	0.464918	0.439423	0.438882
0.79	0.5041534	0.70703	0.522569	0.5476	0.526256	0.471293	0.507743	0.472999	0.471929	0.528529	0.528028	0.515006	0.513844	0.503244	0.479969	0.454128	0.453894
0.8	0.5222783	0.715354	0.53345	0.556404	0.535633	0.48618	0.522006	0.487531	0.488118	0.550048	0.528028	0.532042	0.531481	0.518677	0.495075	0.468879	0.469108
0.81	0.5407545	0.732082	0.544419	0.565234	0.55441	0.501127	0.536384	0.50208	0.505472	0.572125	0.544956	0.532042	0.549818	0.518677	0.510192	0.483704	0.484345
0.82	0.55006	0.748815	0.56644	0.58291	0.563858	0.516259	0.55336	0.518902	0.524042	0.572125	0.567391	0.549134	0.568389	0.534649	0.526463	0.498543	0.499586
0.83	0.5688379	0.757193	0.577529	0.591753	0.582788	0.531431	0.570433	0.535897	0.544809	0.594313	0.591399	0.567481	0.568389	0.551991	0.526463	0.516079	0.514843
0.84	0.5886166	0.774017	0.588758	0.609474	0.592281	0.546633	0.588186	0.555022	0.566703	0.616553	0.615649	0.585886	0.586976	0.569608	0.543811	0.533673	0.530411
0.85	0.5985515	0.782437	0.602329	0.619847	0.601853	0.56226	0.606145	0.575052	0.589301	0.64056	0.615649	0.607012	0.607241	0.587264	0.561488	0.5513	0.548474
0.86	0.6190299	0.799287	0.61756	0.641068	0.62401	0.580124	0.624322	0.595383	0.612106	0.664745	0.639978	0.628365	0.628172	0.608916	0.580483	0.570141	0.566746
0.87	0.6295987	0.816138	0.632984	0.651996	0.636133	0.5991	0.64293	0.617581	0.635978	0.664745	0.664392	0.650715	0.649575	0.634392	0.606063	0.589141	0.586496
0.88	0.6511429	0.824572	0.671908	0.665388	0.667183	0.619495	0.661727	0.641137	0.660022	0.689308	0.689042	0.650715	0.674838	0.634392	0.632006	0.611052	0.606443
0.89	0.673958	0.841478	0.69236	0.697206	0.683555	0.641348	0.681967	0.66509	0.685139	0.714055	0.713725	0.675345	0.674838	0.660075	0.657971	0.633513	0.627658
0.9	0.6854011	0.849945	0.714223	0.713608	0.71845	0.663301	0.702799	0.689352	0.685139	0.739204	0.713725	0.700254	0.700103	0.68577	0.68394	0.658059	0.653949
0.91	0.7091664	0.866902	0.736737	0.749392	0.736776	0.685693	0.724387	0.713912	0.710587	0.739204	0.738422	0.725193	0.725374	0.711464	0.712668	0.683802	0.680748
0.92	0.7337095	0.883879	0.75945	0.767943	0.755778	0.708945	0.747964	0.738916	0.736052	0.764558	0.76314	0.750271	0.750677	0.737927	0.712668	0.709623	0.709786
0.93	0.7470238	0.892371	0.782278	0.805469	0.795035	0.734645	0.77267	0.763951	0.761573	0.790017	0.78789	0.778355	0.778166	0.766546	0.741543	0.73836	0.739345
0.94	0.7746445	0.909424	0.828975	0.824449	0.814999	0.760841	0.797378	0.78901	0.787102	0.815684	0.813744	0.778355	0.805689	0.766546	0.771069	0.767822	0.769219
0.95	0.804232	0.926544	0.852781	0.843574	0.855325	0.790677	0.822157	0.814237	0.814696	0.843996	0.845908	0.806717	0.805689	0.79535	0.801269	0.797907	0.800363
0.96	0.8195826	0.935118	0.876717	0.882295	0.875801	0.82125	0.854712	0.841707	0.842885	0.843996	0.845908	0.836099	0.839019	0.828249	0.835167	0.831313	0.832329
0.97	0.859901	0.952313	0.900832	0.901823	0.896285	0.855714	0.887334	0.870384	0.874439	0.87742	0.878446	0.869173	0.875165	0.864979	0.872135	0.867739	0.86768
0.98	0.881574	0.960989	0.925338	0.940935	0.937703	0.926745	0.920126	0.9128	0.908031	0.910979	0.91363	0.912292	0.911323	0.909885	0.90924	0.910451	0.906118
0.99	0.9285849	0.978646	0.94988	0.960584	0.958416	0.963037	0.955813	0.956326	0.952629	0.955486	0.95681	0.956031	0.955594	0.954854	0.954596	0.955108	0.953058
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

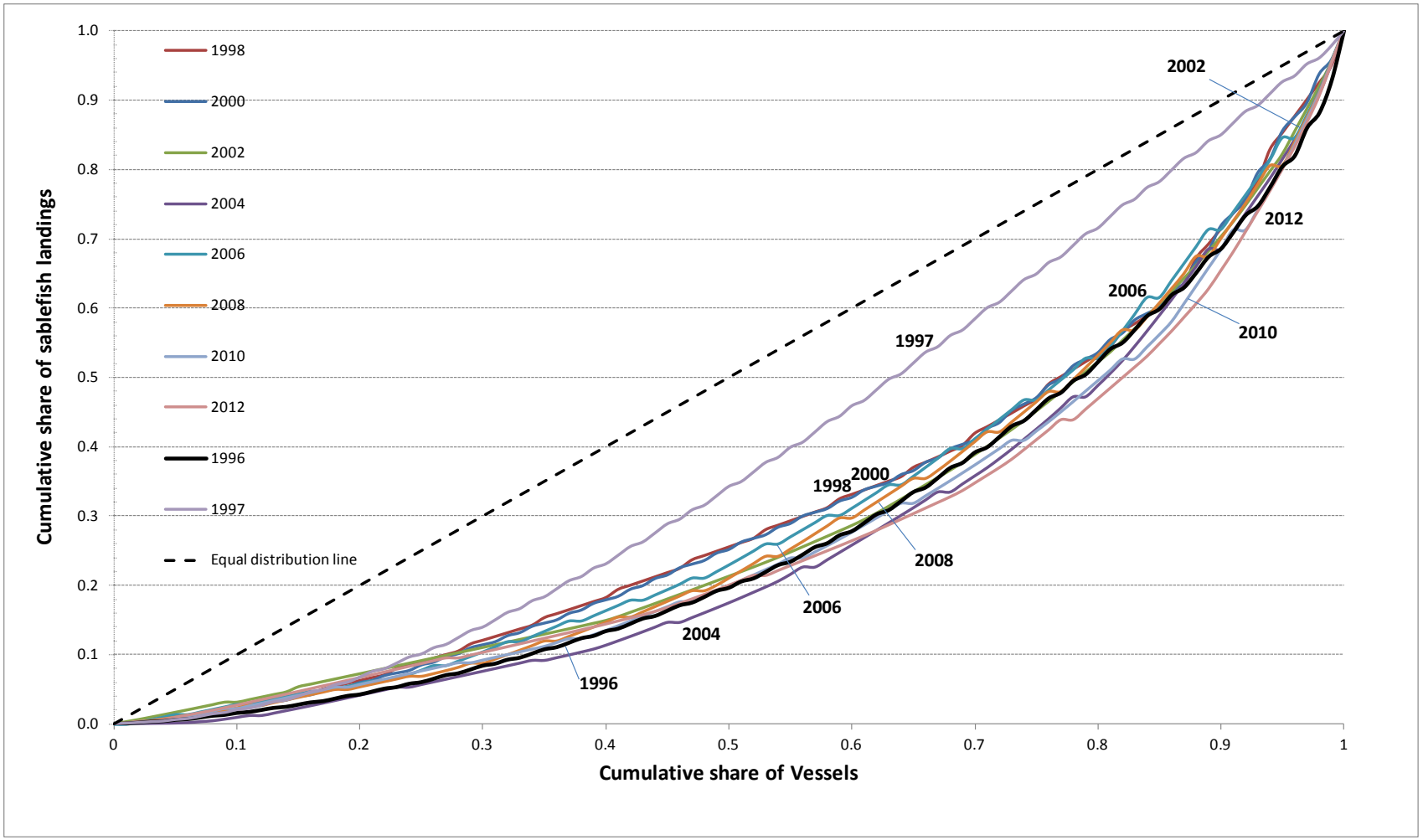
1998
2000
2002
2004
2006
2008
2010
2012
1996
1997
Equal distribution line
Cumulative share of sablefish landings
Cumulative share of Vessels
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
2002
2012
2006
2010
1997
2000
1998
2008
2006
2004
1996

Figure 3-7.

Table 7. Data for Figure 3-8: Gini coefficients for the concentration of landings by vessels in the LEFG primary sablefish fishery for years before and after full implementation of the permit stacking program in 2002.

Year	Gini coeff
1996	0.438127
1997	0.220271
1998	0.377510
1999	0.356107
2000	0.381421
2001	0.447166
2002	0.415969
2003	0.440806
2004	0.460581
2005	0.402129
2006	0.389987
2007	0.408382
2008	0.412460
2009	0.422398
2010	0.441056
2011	0.464195
2012	0.450571
2013	0.467329

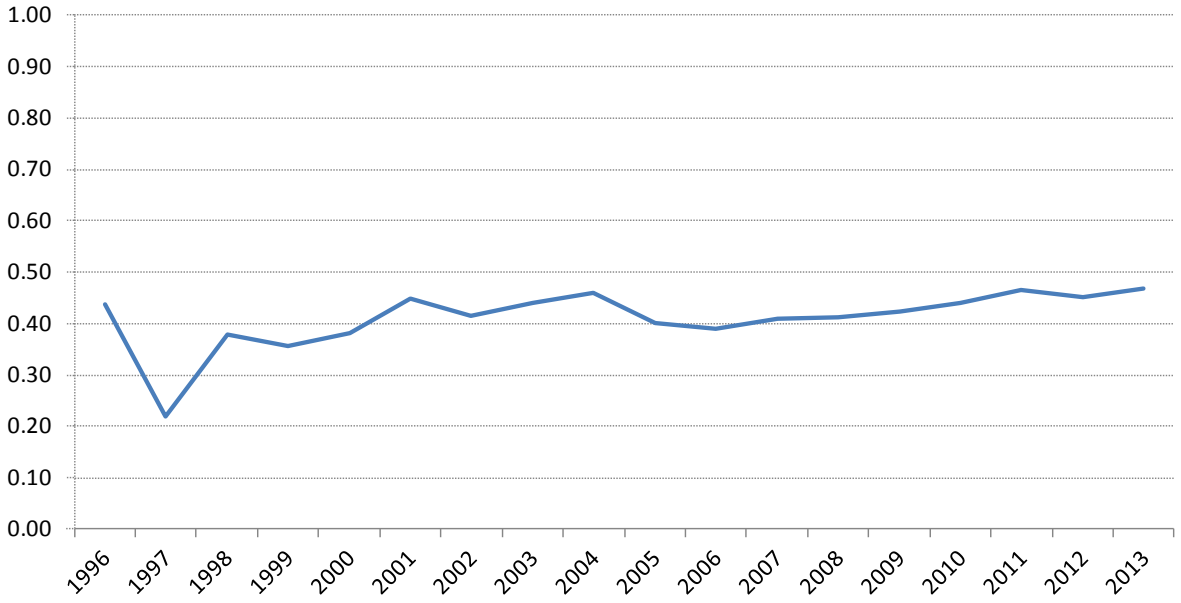

Figure 3-8.

Table 8. Data for Figure 3-9: Number of LEFG sablefish vessels in 2012 with unstacked and stacked permits by vessel length class.

Fixed Gear Sablefish Vessels in 2012		
Vessel Length Class (feet)	Unstacked Permits	Stacked Permits
>=60	5	15
>=50 and <60	9	9
>=43 and <50	11	11
>=35 and <43	13	7
<35	16	1

Note: There were three pemits, length endorsement 64.1, 45 and 34.2, that were not associated with vessels on the reference date, 07-01-2012.

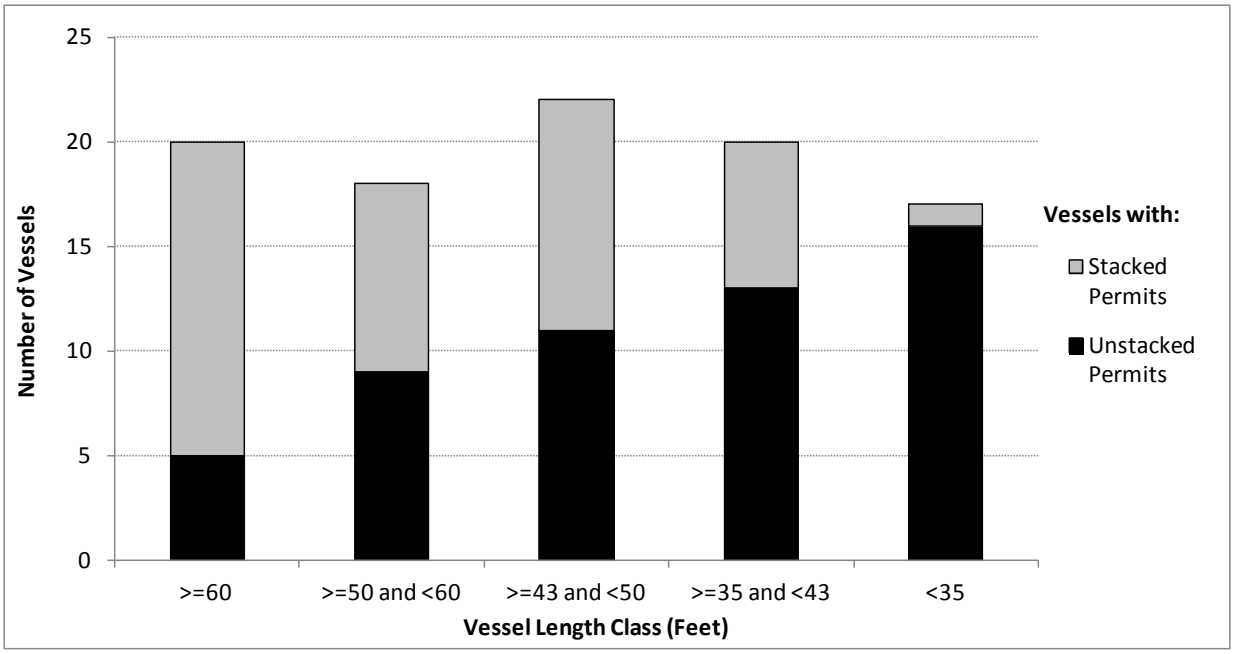

Figure 3-9.

Table 9. Data for Figure 3-10: Number of LEFG sablefish permits in 2012 by permit length endorsement class and status (unstacked, stacked base, and stacked-non-base).

Fixed Gear Sablefish Permits in 2012			
Permit Length Endorsement Class (feet)	Unstacked Permits	Stacked Base Permits	Stacked Non-Base Permits
>=60	11	16	14
>=50 and <60	12	13	12
>=43 and <50	7	9	12
>=35 and <43	18	4	20
<35	6	1	6

Note: There were three pemits, length endorsement 64.1, 45 and 34.2, that were not associated with vessels on the reference date, 07-01-2012.

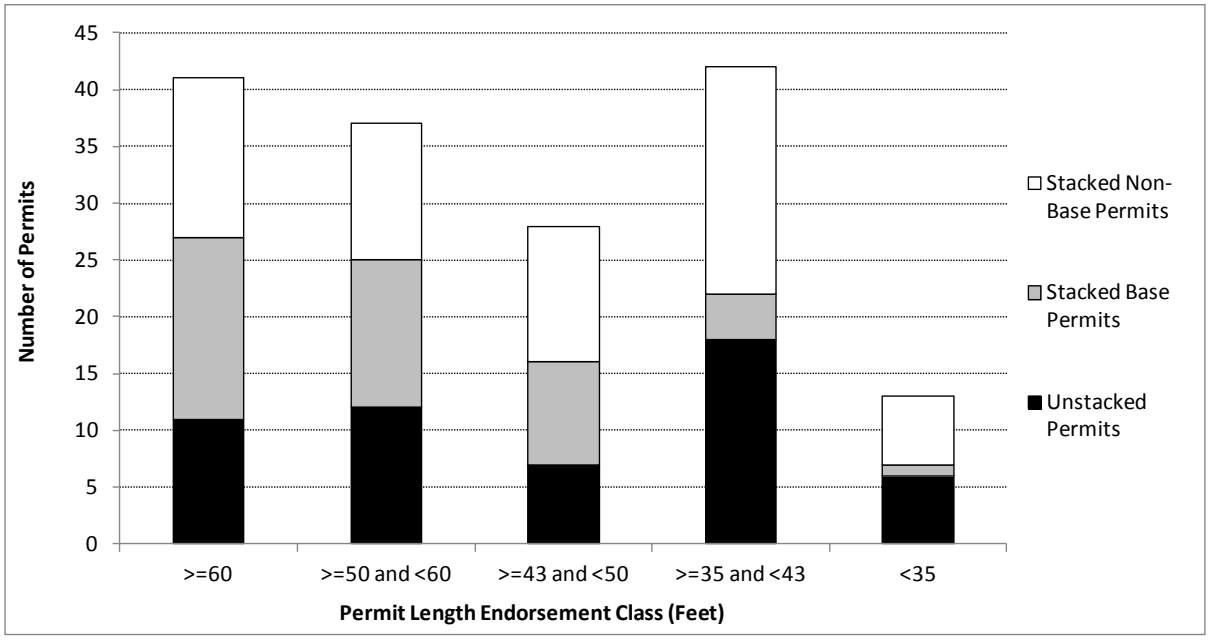

Figure 3-10.

Table 10. Data for Figure 3-11: Involvement (percent of West Coast ex-vessel revenue) in the LEFG sablefish fishery by port group (data for even years 1996-2012).

Port Group	1996	1998	2000	2002	2004	2006	2008	2010	2012
Puget Sound	9.9%	15.6%	10.4%	16.8%	16.0%	19.0%	10.8%	4.3%	4.3%
North Washington Coast	6.0%	7.7%	9.9%	8.2%	9.1%	6.4%	6.0%	4.2%	5.6%
South & Central WA Coast	9.2%	10.0%	4.9%	7.7%	10.2%	12.6%	11.8%	16.5%	9.8%
Astoria	7.7%	11.7%	16.7%	10.3%	7.7%	7.1%	6.7%	0.9%	2.7%
Tillamook	0.8%	0.0%	0.0%	0.0%	0.2%	0.3%	0.0%	0.1%	0.0%
Newport	14.2%	16.4%	16.1%	13.8%	19.2%	16.3%	17.6%	16.0%	18.4%
Coos Bay	8.4%	6.1%	9.9%	9.6%	8.1%	8.9%	11.0%	12.3%	8.8%
Brookings	7.2%	5.5%	4.6%	4.2%	5.2%	6.5%	8.8%	8.6%	7.8%
Crescent City	1.0%	1.5%	2.8%	2.0%	1.6%	3.1%	1.6%	0.8%	1.4%
Eureka	3.5%	4.4%	4.2%	4.9%	3.2%	3.9%	5.5%	4.6%	3.8%
Fort Bragg	7.8%	3.8%	5.5%	5.7%	8.1%	4.9%	7.2%	7.3%	8.9%
Bodega Bay	2.2%	0.1%	0.8%	0.0%	0.0%	0.0%	0.2%	1.2%	2.1%
San Francisco	5.3%	3.1%	3.8%	2.5%	2.8%	2.0%	1.9%	2.3%	2.5%
Monterey	14.0%	7.4%	7.6%	6.9%	4.3%	3.9%	5.0%	3.5%	4.1%
Morro Bay	0.1%	0.0%	0.1%	0.3%	0.1%	2.4%	3.2%	11.6%	6.9%
Santa Barbara	0.5%	1.5%	0.5%	0.7%	0.9%	0.4%	0.3%	3.6%	7.9%
Los Angeles	2.0%	3.0%	1.8%	2.4%	2.4%	0.9%	1.4%	1.5%	1.9%
San Diego	0.2%	2.3%	0.4%	4.2%	1.0%	1.4%	1.0%	0.6%	2.9%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

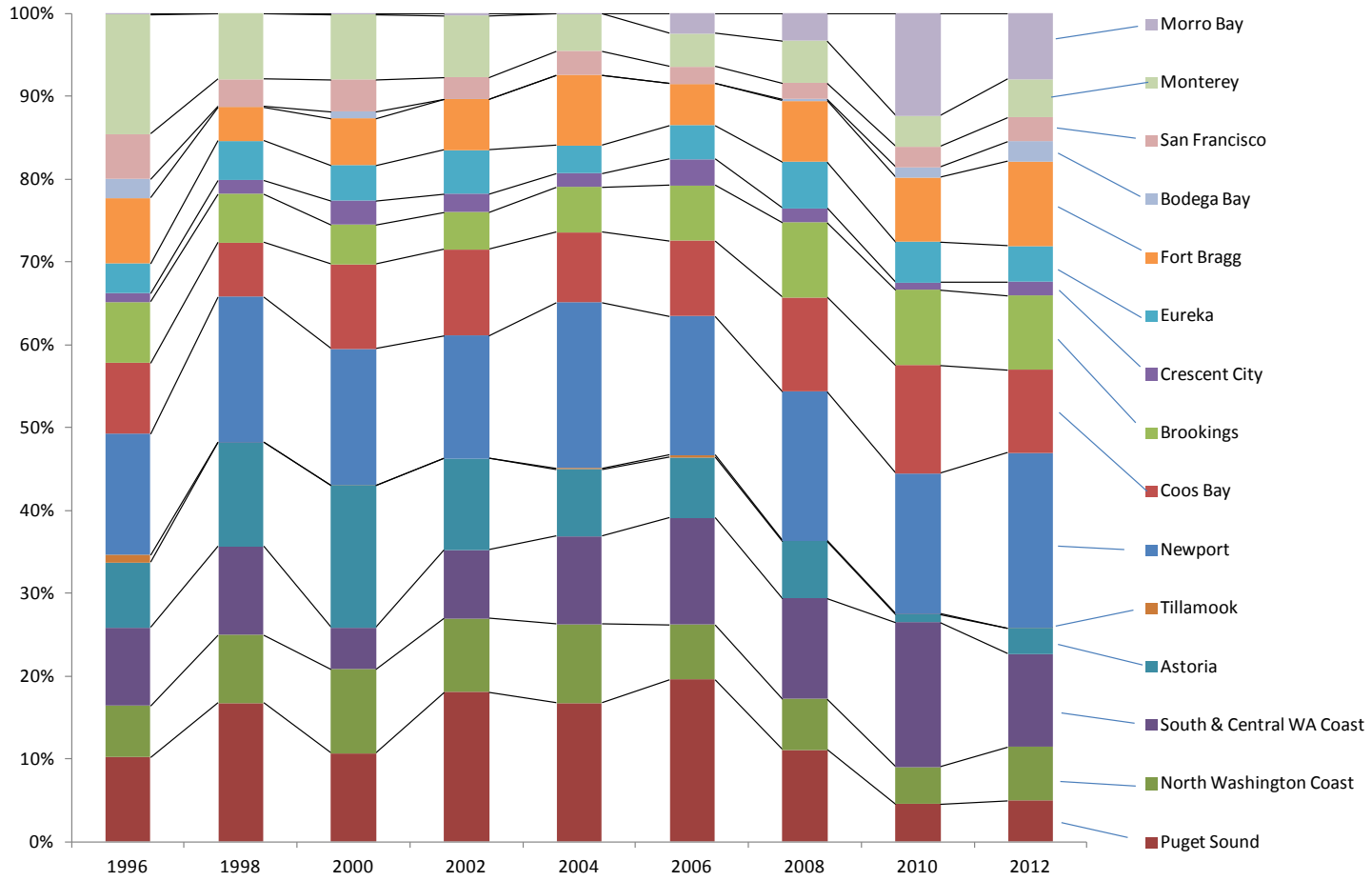
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
1996
1998
2000
2002
2004
2006
2008
2010
2012
Morro Bay
Monterey
San Francisco
Bodega Bay
Fort Bragg
Eureka
Crescent City
Brookings
Coos Bay
Newport
Tillamook
Astoria
South & Central WA Coast
North Washington Coast
Puget Sound

Figure 3-11.

Table 11. Data for Figure 3-12: Involvement (percent of West Coast ex-vessel revenue) in the LEFG sablefish fishery by port group in terms of three-year averages for periods before and after implementation of the tier program (data for even years 1996-2012).

	Unweighted Average Percent Involvement		
		Post-Tier	
Port Group	Pre-Tier 1996, 1998, 2000	2002, 2004, 2006	2008, 2010, 2012
Puget Sound	12.0%	17.3%	6.5%
North Washington Coast	7.9%	7.9%	5.3%
South & Central WA Coast	8.0%	10.1%	12.7%
Astoria	12.0%	8.4%	3.4%
Tillamook	0.3%	0.1%	0.0%
Newport	15.6%	16.4%	17.3%
Coos Bay	8.1%	8.9%	10.7%
Brookings	5.8%	5.3%	8.4%
Crescent City	1.8%	2.2%	1.3%
Eureka	4.0%	4.0%	4.6%
Fort Bragg	5.7%	6.2%	7.8%
Bodega Bay	1.0%	0.0%	1.2%
San Francisco	4.1%	2.4%	2.2%
Monterey	9.7%	5.0%	4.2%
Morro Bay	0.1%	0.9%	7.2%
Santa Barbara	0.9%	0.6%	3.9%
Los Angeles	2.3%	1.9%	1.6%
San Diego	0.9%	2.2%	1.5%
	100.0%	100.0%	100.0%

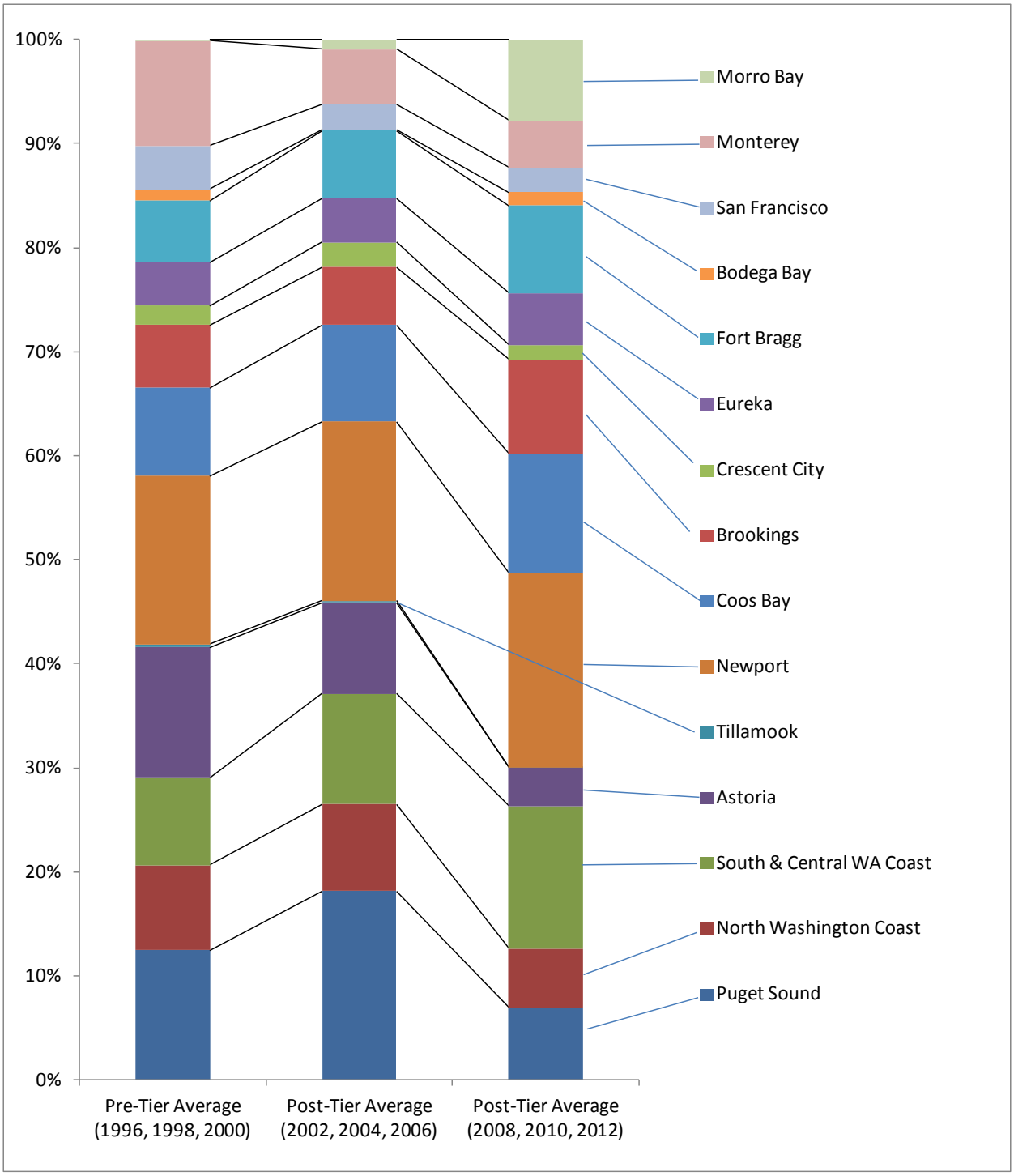
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
Pre-Tier Average (1996, 1998, 2000)
Post-Tier Average (2002, 2004, 2006)
Post-Tier Average (2008, 2010, 2012)
Morro Bay
Monterey
San Francisco
Bodega Bay
Fort Bragg
Eureka
Crescent City
Brookings
Coos Bay
Newport
Tillamook
Astoria
South & Central WA Coast
North Washington Coast
Puget Sound

Figure 3-12.

Table 12. Data for Figure 3-13: Dependence (percent of port total ex-vessel revenue) on LEFG sablefish landings for port groups from Brookings, Oregon to Morro Bay, California (data for even years 1996-2012). And--Data for Figure 3-14: Dependence (percent or port total ex-vessel revenue) on LEFG sablefish landings for port groups from the North Washington Coast to Coos Bay, Oregon (data for even years 1996-2012).

Dependence									
Port_Grp	1996	1998	2000	2002	2004	2006	2008	2010	2012
Puget Sound	26.3%	19.1%	15.0%	19.0%	19.4%	27.2%	23.4%	12.5%	13.3%
North Washington Coast	27.2%	17.5%	29.6%	21.3%	35.2%	25.1%	30.8%	38.5%	27.4%
South & Central WA Coast	2.4%	2.0%	1.8%	1.5%	3.0%	3.6%	2.7%	6.0%	1.8%
Astoria	3.5%	3.2%	6.4%	2.9%	3.6%	2.8%	2.7%	0.6%	1.0%
Tillamook	3.6%	0.1%	0.0%	0.0%	0.4%	0.8%	0.2%	0.5%	0.1%
Newport	7.0%	5.5%	6.8%	5.0%	5.8%	6.4%	6.9%	10.7%	6.9%
Coos Bay	6.2%	3.1%	6.6%	4.5%	2.7%	5.3%	6.5%	10.1%	4.2%
Brookings	8.0%	4.3%	7.1%	5.7%	3.4%	7.2%	15.4%	20.1%	7.1%
Crescent City	0.7%	0.7%	2.8%	2.4%	0.7%	1.7%	2.2%	1.6%	0.7%
Eureka	3.0%	2.1%	5.0%	4.1%	1.7%	3.4%	6.1%	8.2%	1.9%
Fort Bragg	10.4%	3.0%	6.5%	4.4%	9.1%	10.9%	12.8%	19.4%	7.9%
Bodega Bay	7.0%	0.1%	2.2%	0.0%	0.0%	0.0%	0.7%	3.0%	2.4%
San Francisco	2.3%	1.3%	2.9%	1.1%	1.2%	2.1%	2.4%	2.1%	1.1%
Monterey	12.2%	5.1%	7.4%	3.3%	3.8%	7.5%	8.0%	4.9%	3.9%
Morro Bay	0.2%	0.0%	0.2%	0.4%	0.2%	10.3%	14.5%	42.5%	12.3%
Santa Barbara	0.2%	0.5%	0.2%	0.2%	0.3%	0.3%	0.1%	1.6%	3.0%
Los Angeles	0.7%	0.9%	0.6%	0.8%	1.4%	0.4%	0.7%	0.7%	0.6%
San Diego	0.3%	2.6%	0.6%	4.9%	1.9%	2.4%	1.8%	1.9%	5.2%

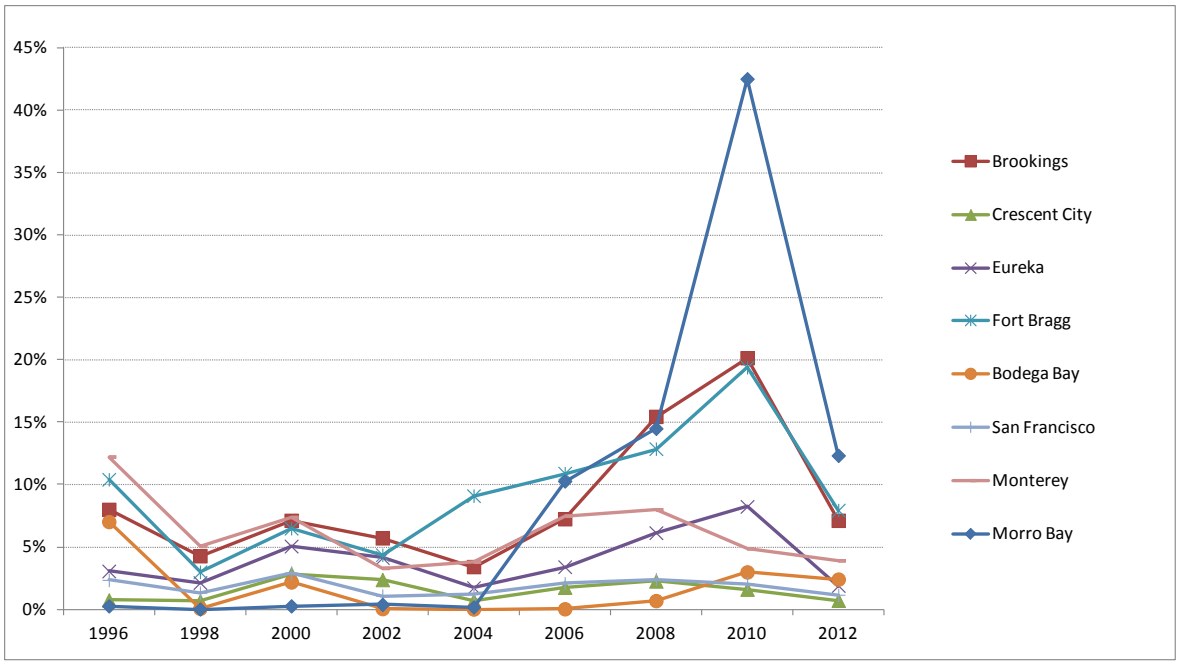

Figure 3-13.

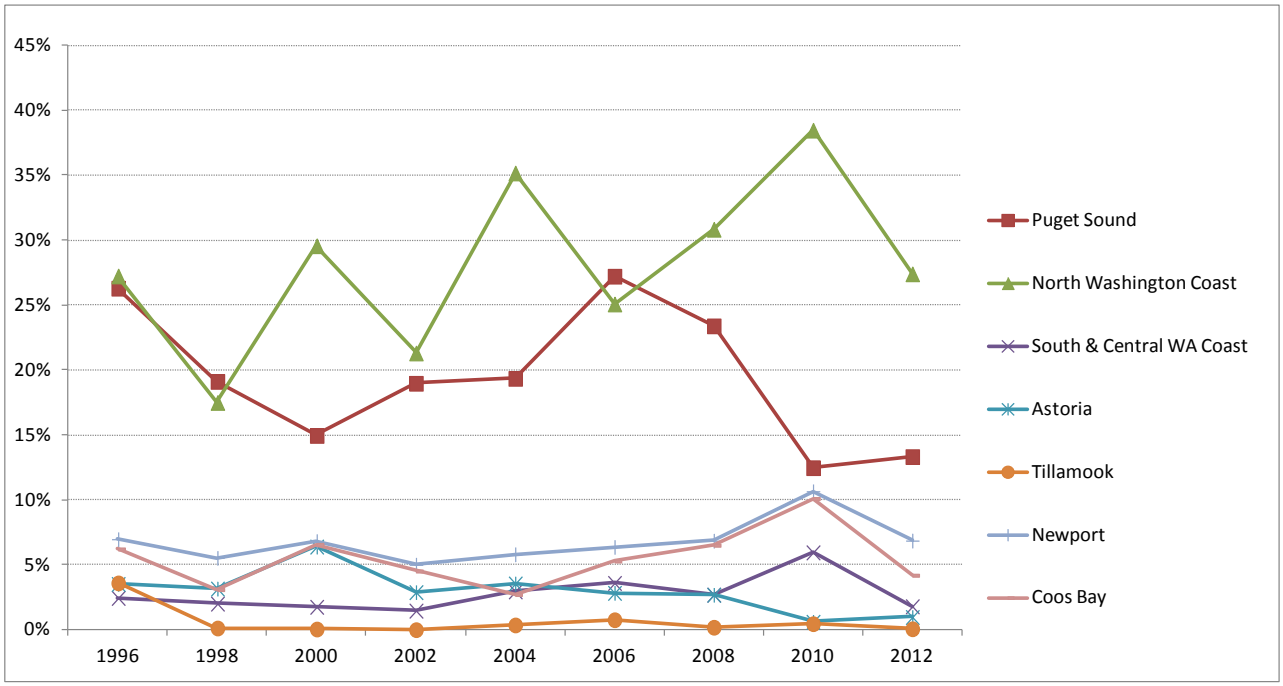

Figure 3-14.

Table 13. Data for Figure 3-15: West Coast port dependence on the LEFG sablefish fishery in terms of employment (estimated number of jobs using 2014 data) in comparison to employment by the total non-tribal groundfish fishery (2014 data) and the total port-area labor force (2012 data).

		Estimated Values for 2014 (2015-16 Spex No Action)	
Port Group	Total 2012 Labor Force in Thousands of Jobs	LEFG Sablefish Total Estimated 2014 Employment (number of Jobs)	Non-Tribal Groundfish Total Estimated 2014 Employment (number of jobs)
Puget Sound	2,243	24	44
North WA Coast	41	15	24
South and Central WA Coast	249	23	284
Astoria	21	13	451
Tillamook	13	0	28
Newport	23	41	394
Coos Bay	250	34	181
Brookings	9	12	117
Crescent City	11	4	18
Eureka	60	12	113
Fort Bragg	43	57	179
Bodega Bay	397	6	11
San Francisco	2,184	5	55
Monterey	378	13	80
Morro Bay	143	35	194
Santa Barbara	670	23	65
Los Angeles	6,520	11	34
San Diego	2,544	5	70
Total	15,797	334	2,341

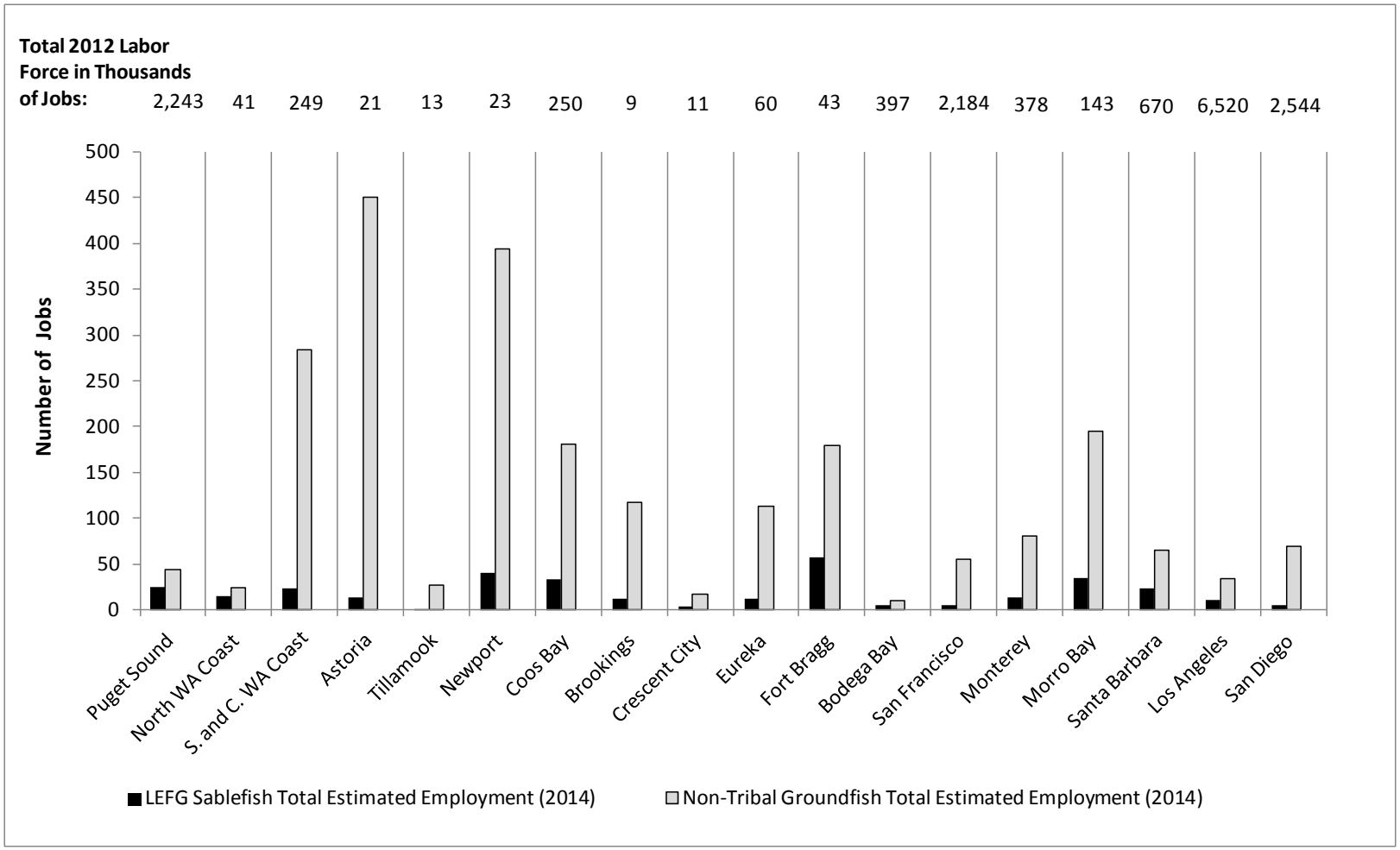
Total 2012 Labor Force in Thousands of Jobs:
2,243
41
249
21
13
23
250
9
11
60
43
397
2,184
378
143
670
6,520
2,544
Number of Jobs
500
450
400
350
300
250
200
150
100
50
0
Puget Sound
North WA Coast
S. and C. WA Coast
Astoria
Tillamook
Newport
Coos Bay
Brookings
Crescent City
Eureka
Fort Bragg
Bodega Bay
San Francisco
Monterey
Morro Bay
Santa Barbara
Los Angeles
San Diego
LEFG Sablefish Total Estimated Employment (2014)
Non-Tribal Groundfish Total Estimated Employment (2014)

Figure 3-15.

Table 14. Data for Figure 1: West Coast port dependence on the LEFG sablefish fishery in terms of income (estimated wages and salaries for 2014) in comparison to income for the total non-tribal groundfish fishery (2014) and the total port area income from all sources (2012 data).

		Estimated Values for 2014 (2015-16 Spex No Action)	
Port Group	Total 2012 Wage and Salary Income in Millions of $'s	LEFG Sablefish Total 2014 Estimated Income ($'s)	Non-Tribal Groundfish Total 2014 Estimated Income ($'s)
Puget Sound	122,828,056	1,424,025	2,987,414
North WA Coast	1,136,215	597,052	910,054
South and Central WA Coast	7,327,517	1,121,132	15,174,221
Astoria	617,072	722,708	29,806,418
Tillamook	286,888	19,562	136,184
Newport	601,603	2,008,790	22,330,506
Coos Bay	7,675,433	1,543,457	9,192,649
Brookings	214,702	544,081	2,771,436
Crescent City	299,677	147,317	567,634
Eureka	1,730,466	396,737	5,204,369
Fort Bragg	1,101,786	1,258,134	5,819,675
Bodega Bay	15,479,670	302,236	406,453
San Francisco	156,775,242	230,915	2,250,260
Monterey	12,269,496	298,337	1,987,105
Morro Bay	4,555,956	1,821,682	5,717,933
Santa Barbara	26,211,332	1,173,989	1,952,961
Los Angeles	324,259,198	539,785	1,069,145
San Diego	105,290,800	226,201	2,964,396
Total	788,661,109	14,376,140	111,248,815

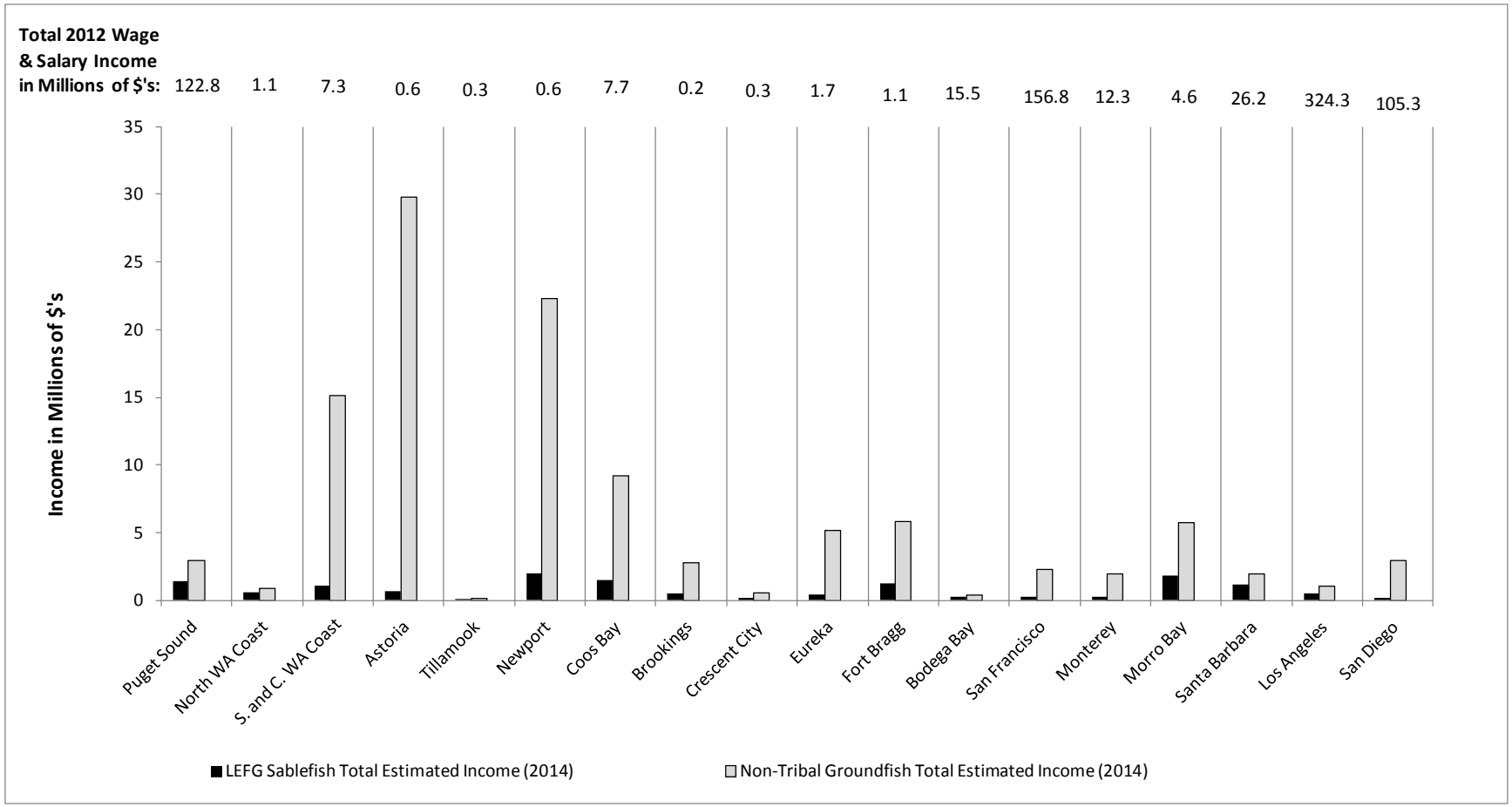
Total 2012 Wage & Salary Income in Millions of $'s:
122.8
1.1
7.3
0.6
0.3
0.6
7.7
0.2
0.3
1.7
1.1
15.5
156.8
12.3
4.6
26.2
324.3
105.3
Income in Millions of $'s
35
30
25
20
15
10
5
0
Puget Sound
North WA Coast
S. and C. WA Coast
Astoria
Tillamook
Newport
Coos Bay
Brookings
Crescent City
Eureka
Fort Bragg
Bodega Bay
San Francisco
Monterey
Morro Bay
Santa Barbara
Los Angeles
San Diego
LEFG Sablefish Total Estimated Income (2014)
Non-Tribal Groundfish Total Estimated Income (2014)

Figure 3-16.

Table 15. Data for Figure 3-17: Gini coefficients for the concentration of landings in the LEFG primary sablefish fishery by permit and vessel owning entities for selected years before and after implementation of the permit stacking program in 2002.

Gini Coefficients by Ownership:		
Year	Permits	Vessels
1998	0.34620323	0.37924739
2000	0.399115251	0.39519876
2002	0.346467735	0.41063374
2004	0.417211079	0.46686599
2008	0.389078077	0.38757818
2012	0.410754236	0.42839144

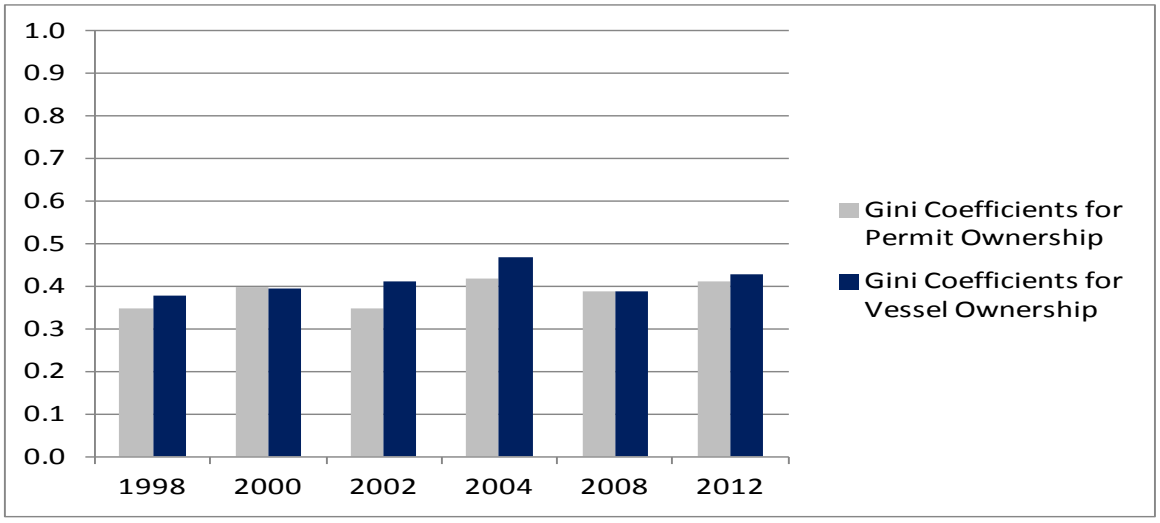

Figure 3-17.

Table 16. Data for Figure 3-18: Total overage for all vessels with overages as a percent of pounds allocated by tier limit category for 2008-2013. Data for 2013 is incomplete.

				Overage				Underage			
Tier	Number of Permits Fished	Total Tier Quota (lbs)	Tier Limits (lbs)	Pounds Landed over the Tier Quota	Number of Permits Over	Maximum Overage (lbs)	Avgerage Overage (lbs)	Percent of Pounds Landed under the Tier Quota	Number of Permits Under	Maximum Underage (lbs)	Avgerage Underage (lbs)
All											
2008	161	3,419,500	-	+0.1%	40	562	111	-4.1%	114	-11,457	-1,217
2009	161	4,335,303	-	+0.2%	41	1,847	199	-5.8%	113	-31,739	-2,232
2010	158	3,911,903	-	+0.2%	36	1,984	172	-5.3%	112	-23,313	-1,860
2011	162	3,385,864	-	+0.6%	28	3,409	671	-7.0%	124	-18,533	-1,904
2012	161	3,270,288	-	+0.4%	25	6,433	538	-10.0%	134	-28,346	-2,452
2013[a/]	131	1,997,251	-	+0.3%	19	1,701	358	-27.1%	112	-27,838	-4,839
Tier 1											
2008	28	1,358,000	48,500	+0.1%	8	194	90	-1.4%	20	-9,599	-926
2009	28	1,716,288	61,296	+0.2%	11	1,847	298	-5.3%	17	-31,739	-5,400
2010	28	1,570,268	56,081	+0.0%	10	115	53	-2.0%	16	-23,313	-1,974
2011	28	1,335,516	47,697	+0.0%	2	93	62	-3.8%	26	-11,330	-1,944
2012	28	1,294,664	46,238	+0.6%	11	6,433	652	-9.9%	17	-28,346	-7,518
2013[a/]	23	793,799	34,513	+0.1%	2	629	438	-31.2%	21	-27,838	-11,810
Tier 2											
2008	42	924,000	22,000	+0.2%	9	562	175	-4.7%	32	-8,250	-1,364
2009	42	1,170,204	27,862	+0.2%	11	872	193	-6.8%	29	-14,427	-2,744
2010	41	1,045,172	25,492	+0.1%	10	441	110	-6.7%	29	-11,234	-2,400
2011	42	910,560	21,680	+1.2%	8	3,409	1,390	-9.5%	28	-18,533	-3,090
2012	42	882,714	21,017	+0.3%	5	2,924	607	-9.0%	36	-17,449	-2,213
2013[a/]	35	549,080	15,688	+0.4%	6	1,701	410	-23.2%	29	-12,654	-4,384
Tier 3											
2008	91	1,137,500	12,500	+0.2%	23	560	94	-6.7%	62	-11,457	-1,235
2009	91	1,448,811	15,921	+0.2%	19	783	145	-5.6%	67	-11,553	-1,206
2010	89	1,296,463	14,567	+0.4%	16	1,984	285	-8.3%	67	-11,430	-1,599
2011	92	1,139,788	12,389	+0.7%	18	1,948	420	-8.7%	70	-9,975	-1,415
2012	91	1,092,910	12,010	+0.3%	9	2,416	361	-11.1%	81	-10,287	-1,495
2013[a/]	73	654,372	8,964	+0.5%	11	1,271	315	-25.5%	62	-8,256	-2,691

a/ On the query date (11/04/2013), data were 90 percent complete in PacFIN--through: August for Washington Department of Fish and Wildlife, September for Oregon Department of Fish and Wildlife, and July for California Department of Fish and Wildlife data.

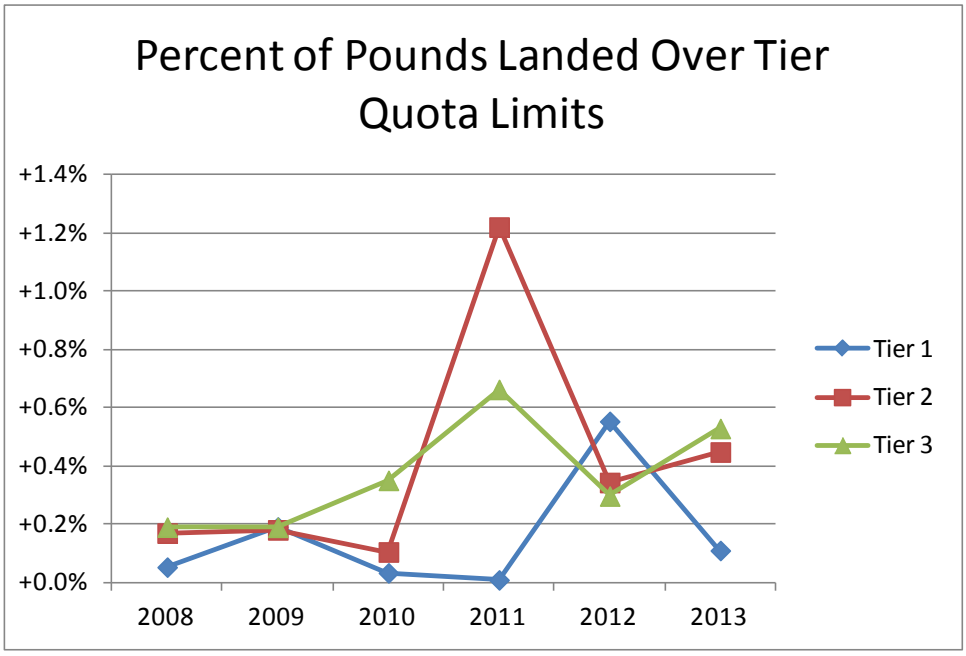

Figure 3-18.

Table 17. Note: Data for Figure 3-19 (number of USCG-reported incidents in the LEFG primary sablefish fishery) and Figure 3-20 (proportion of trip starts on high wind days and fair weather days) is contained in a study conducted by the Northwest Fisheries Science Center (Pfeiffer, L., and Gratz T. 2014. The Effects of the Limited Entry Fixed Gear Sablefish Permit Stacking Program on Vessel Safety. NMFS Working Paper. April 15, 2014. Seattle, Washington). Study authors allowed us to use the figures in our report.

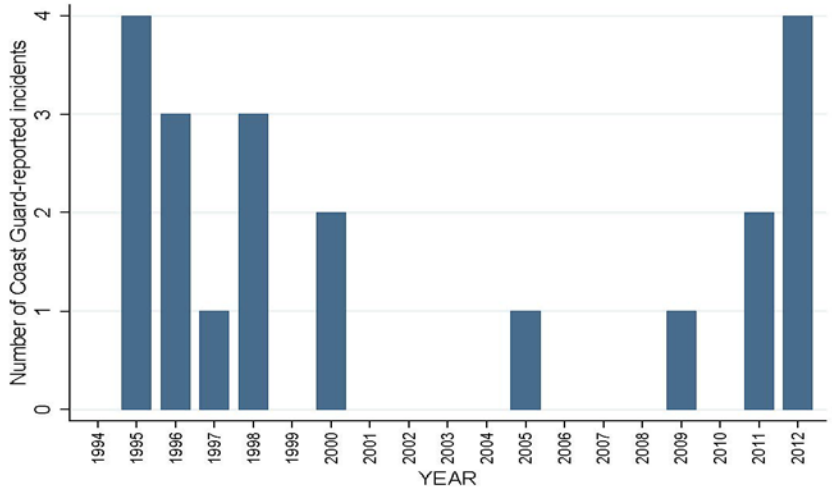

Figure 3-19. From Pfeiffer and Gratz, 2014.

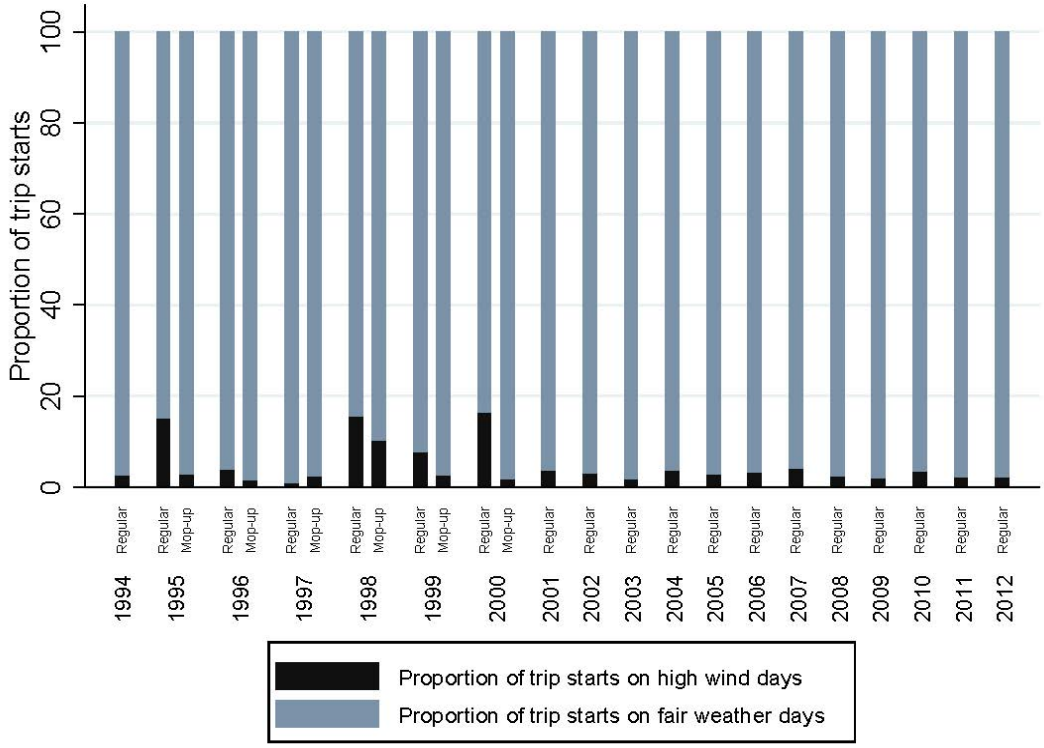

Figure 3-20. From Pfeiffer and Gratz, 2014.

Table 18. Data for Figure 3-21: Average annual ex-vessel sablefish prices by gear type in inflation-adjusted 2013 dollars per pound (1994-2012).

	Average Annual Exvessel Price ($'s/lb)		
Year	Trawl	Pot	Longline
1994	0.93	1.25	1.32
1995	1.54	1.86	1.92
1996	1.50	2.20	2.15
1997	1.57	2.44	2.47
1998	1.38	1.48	1.56
1999	1.19	1.63	1.68
2000	1.41	2.06	2.01
2001	1.50	1.99	2.05
2002	1.41	2.08	2.08
2003	1.50	2.22	2.21
2004	1.28	1.77	1.89
2005	1.36	1.89	2.07
2006	1.53	2.09	2.22
2007	1.68	2.11	2.34
2008	2.01	2.53	2.57
2009	2.02	2.54	2.53
2010	2.03	2.76	2.71
2011	2.55	3.45	3.66
2012	1.81	2.43	2.90

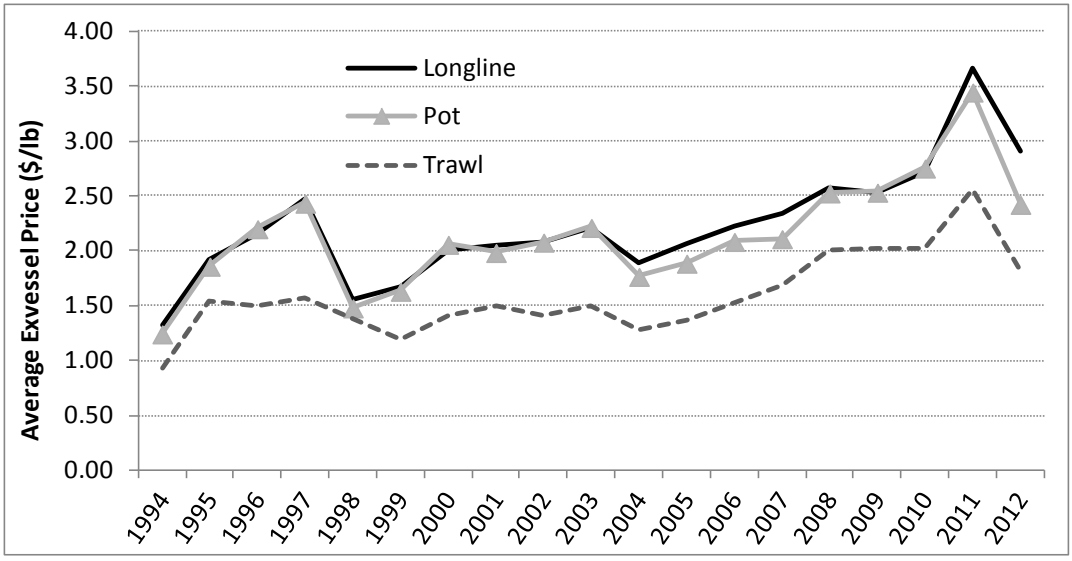

Figure 3-21.

Table 19. Data for Figure 3-22: Average annual ex-vessel prices received for sablefish caught by longline and pot gear expressed as a percent of prices received for trawl-caught sablefish: 1994-2012 (inflation-adjusted 2013 dollars per pound).

	Percent of Average Annual Exvessel Trawl Price	
Year	Pot	Longline
1994	134%	142%
1995	121%	125%
1996	147%	144%
1997	156%	157%
1998	108%	114%
1999	138%	141%
2000	146%	143%
2001	132%	137%
2002	147%	147%
2003	148%	148%
2004	139%	148%
2005	139%	152%
2006	137%	145%
2007	126%	139%
2008	126%	128%
2009	125%	125%
2010	136%	134%
2011	135%	143%
2012	134%	160%

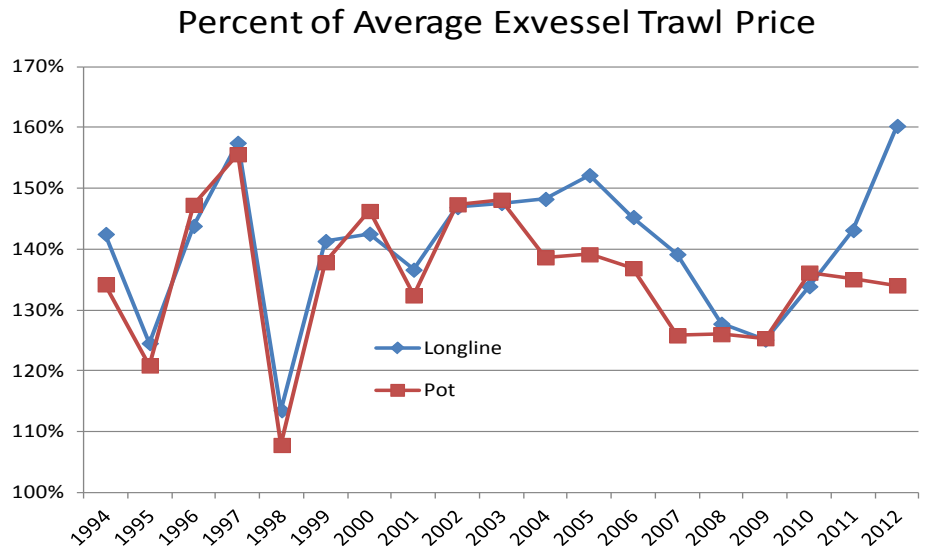

Figure 3-22.