

# DRAFT

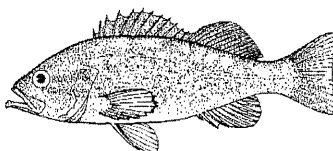
## Addendum

to

### Status of the Yellowtail Rockfish in 2004

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## Executive Summary

**Decision Table:** To bracket the uncertainty in this assessment the Executive Summary Table 2 shows three future spawning biomass states-of-nature and three catch scenarios projected over 12 years. The 'status quo' fixes the fishing mortality rate that closely matches the 2005 catch to what was seen in 2004.

Executive Summary Table 2. South Vancouver area. Decision table for three future spawning biomass states-of-nature and three catch scenarios. The 'status quo' fixes the fishing mortality rate that closely matches the 2005 catch to what was seen in 2004.

Decision Table South Vancouver				Low state (less likely)		Middle state (more likely)		High state (less likely)	
	Year	Catch	Landings	Sp. Bio	Depletion	Sp. Bio	Depletion	Sp. Bio	Depletion
Status Quo (F67%)	2005	1,611	1,353	7,430	0.822	9,251	1.024	11,520	1.275
	2006	1,592	1,337	7,229	0.824	8,979	1.023	11,152	1.271
	2007	1,598	1,342	7,167	0.856	8,911	1.065	11,080	1.324
	2008	1,615	1,357	7,180	0.911	8,963	1.137	11,188	1.419
	2009	1,637	1,375	7,238	0.941	9,076	1.179	11,379	1.479
	2010	1,663	1,397	7,349	0.958	9,231	1.203	11,595	1.511
	2011	1,690	1,420	7,525	0.990	9,408	1.237	11,762	1.547
	2012	1,714	1,440	7,743	1.004	9,578	1.243	11,849	1.537
	2013	1,733	1,456	7,953	1.023	9,728	1.252	11,898	1.531
	2014	1,749	1,469	8,126	1.018	9,851	1.234	11,942	1.496
	2015	1,762	1,480	8,259	1.045	9,951	1.259	11,991	1.517
2016	1,772	1,489	8,355	1.090	10,030	1.308	12,041	1.571	
F50% Moderate Catch (F50%)	2005	2,996	2,517	7,430	1.004	9,251	1.250	11,520	1.556
	2006	2,798	2,350	6,800	0.966	8,456	1.201	10,515	1.494
	2007	2,677	2,249	6,396	0.996	7,983	1.243	9,964	1.552
	2008	2,604	2,187	6,137	1.049	7,714	1.319	9,696	1.657
	2009	2,560	2,150	5,980	1.046	7,571	1.324	9,585	1.676
	2010	2,541	2,134	5,925	0.910	7,524	1.155	9,555	1.467
	2011	2,535	2,130	5,971	0.801	7,537	1.012	9,515	1.277
	2012	2,534	2,129	6,077	0.750	7,574	0.935	9,441	1.165
	2013	2,534	2,128	6,184	0.707	7,615	0.871	9,376	1.072
	2014	2,534	2,128	6,265	0.738	7,651	0.901	9,342	1.100
	2015	2,534	2,128	6,320	0.769	7,680	0.935	9,333	1.136
2016	2,533	2,128	6,355	0.758	7,704	0.919	9,339	1.114	
High Catch (F45%)	2005	3,544	2,977	7,430	0.931	9,251	1.160	11,520	1.444
	2006	3,234	2,716	6,629	0.868	8,250	1.080	10,266	1.344
	2007	3,036	2,550	6,103	0.761	7,634	0.951	9,549	1.190
	2008	2,909	2,443	5,755	0.731	7,262	0.923	9,163	1.164
	2009	2,829	2,376	5,537	0.664	7,046	0.844	8,966	1.074
	2010	2,785	2,340	5,439	0.647	6,946	0.826	8,871	1.055
	2011	2,764	2,322	5,456	0.601	6,921	0.762	8,780	0.967
	2012	2,751	2,311	5,536	0.585	6,928	0.732	8,670	0.916
	2013	2,743	2,304	5,619	0.568	6,945	0.702	8,584	0.867
	2014	2,736	2,298	5,679	0.581	6,963	0.713	8,539	0.874
	2015	2,732	2,295	5,716	0.663	6,979	0.810	8,522	0.989
2016	2,728	2,292	5,738	0.607	6,992	0.740	8,520	0.902	

Executive Summary Table 2. (cont.) North Columbia area. Decision table for three future spawning biomass states-of-nature and three catch scenarios. The 'status quo' fixes the fishing mortality rate that closely matches the 2005 catch to what was seen in 2004.

Decision Table North Columbia				Low state (less likely)		Middle state (more likely)		High state (less likely)	
	Year	Catch	Landings	Sp. Bio	Depletion	Sp. Bio	Depletion	Sp. Bio	Depletion
Status Quo (F94%)	2005	112	94	4,946	0.378	5,962	0.455	7,186	0.549
	2006	115	97	4,984	0.380	5,997	0.458	7,217	0.551
	2007	121	102	5,084	0.388	6,118	0.467	7,363	0.562
	2008	129	108	5,256	0.401	6,340	0.484	7,647	0.584
	2009	137	115	5,493	0.419	6,655	0.508	8,063	0.615
	2010	146	123	5,787	0.442	7,043	0.538	8,571	0.654
	2011	154	130	6,127	0.468	7,466	0.570	9,097	0.694
	2012	162	136	6,495	0.496	7,888	0.602	9,581	0.731
	2013	169	142	6,862	0.524	8,289	0.633	10,012	0.764
	2014	175	147	7,205	0.550	8,655	0.661	10,396	0.794
2015	180	151	7,513	0.573	8,982	0.686	10,738	0.820	
2016	184	155	7,785	0.594	9,273	0.708	11,045	0.843	
F50% Moderate Catch (F50%)	2005	1,404	1,179	4,946	0.378	5,962	0.455	7,186	0.549
	2006	1,345	1,129	4,562	0.348	5,500	0.420	6,631	0.506
	2007	1,322	1,110	4,289	0.327	5,186	0.396	6,270	0.479
	2008	1,329	1,117	4,126	0.315	5,019	0.383	6,104	0.466
	2009	1,356	1,139	4,058	0.310	4,976	0.380	6,103	0.466
	2010	1,388	1,166	4,068	0.311	5,026	0.384	6,209	0.474
	2011	1,418	1,191	4,142	0.316	5,125	0.391	6,341	0.484
	2012	1,444	1,213	4,252	0.325	5,238	0.400	6,453	0.493
	2013	1,466	1,232	4,368	0.333	5,348	0.408	6,547	0.500
	2014	1,485	1,247	4,472	0.341	5,446	0.416	6,631	0.506
2015	1,499	1,259	4,558	0.348	5,530	0.422	6,710	0.512	
2016	1,511	1,269	4,627	0.353	5,602	0.428	6,782	0.518	
High Catch (F45%)	2005	1,650	1,386	4,946	0.378	5,962	0.455	7,186	0.549
	2006	1,556	1,307	4,482	0.342	5,406	0.413	6,520	0.498
	2007	1,510	1,269	4,145	0.316	5,019	0.383	6,077	0.464
	2008	1,503	1,263	3,930	0.300	4,793	0.366	5,845	0.446
	2009	1,521	1,278	3,820	0.292	4,703	0.359	5,789	0.442
	2010	1,547	1,299	3,796	0.290	4,710	0.360	5,845	0.446
	2011	1,572	1,321	3,840	0.293	4,772	0.364	5,930	0.453
	2012	1,594	1,339	3,922	0.299	4,852	0.370	6,002	0.458
	2013	1,613	1,355	4,011	0.306	4,932	0.376	6,063	0.463
	2014	1,628	1,367	4,090	0.312	5,003	0.382	6,120	0.467
2015	1,640	1,377	4,155	0.317	5,065	0.387	6,176	0.471	
2016	1,649	1,385	4,205	0.321	5,118	0.391	6,228	0.475	

Executive Summary Table 2. (cont.) Eureka/South Columbia area. Decision table for three future spawning biomass states-of-nature and three catch scenarios. The 'status quo' fixes the fishing mortality rate that closely matches the 2005 catch to what was seen in 2004.

Decision Table Eureka\ South Columbia				Low state (less likely)		Middle state (more likely)		High state (less likely)	
	Year	Catch	Landings	Sp. Bio	Depletion	Sp. Bio	Depletion	Sp. Bio	Depletion
Status Quo (F99.2%)	2005	5.4	4.6	1,722	0.274	2,019	0.321	2,366	0.377
	2006	6.4	5.4	2,011	0.320	2,384	0.380	2,827	0.450
	2007	7.2	6.0	2,420	0.385	2,933	0.467	3,554	0.566
	2008	7.7	6.5	2,862	0.456	3,547	0.565	4,395	0.700
	2009	8.2	6.9	3,216	0.512	4,035	0.642	5,061	0.806
	2010	8.5	7.1	3,447	0.549	4,328	0.689	5,434	0.865
	2011	8.6	7.2	3,589	0.572	4,480	0.713	5,591	0.890
	2012	8.7	7.3	3,683	0.586	4,556	0.725	5,635	0.897
	2013	8.8	7.4	3,749	0.597	4,593	0.731	5,626	0.896
	2014	8.8	7.4	3,796	0.604	4,609	0.734	5,596	0.891
2015	8.8	7.4	3,828	0.610	4,613	0.735	5,559	0.885	
2016	8.9	7.5	3,849	0.613	4,610	0.734	5,522	0.879	
F50% Moderate Catch (F50%)	2005	540.2	453.8	1,722	0.274	2,019	0.321	2,366	0.377
	2006	601.5	505.2	1,864	0.297	2,214	0.352	2,628	0.419
	2007	635.1	533.5	2,094	0.333	2,548	0.406	3,101	0.494
	2008	645.6	542.3	2,315	0.369	2,887	0.460	3,601	0.573
	2009	646.2	542.8	2,432	0.387	3,074	0.489	3,884	0.619
	2010	633.2	531.9	2,440	0.389	3,087	0.491	3,904	0.622
	2011	612.4	514.4	2,393	0.381	3,007	0.479	3,779	0.602
	2012	594.4	499.3	2,329	0.371	2,902	0.462	3,615	0.576
	2013	578.9	486.3	2,266	0.361	2,799	0.446	3,457	0.550
	2014	565.3	474.9	2,207	0.351	2,707	0.431	3,321	0.529
2015	554.0	465.3	2,154	0.343	2,629	0.419	3,210	0.511	
2016	544.9	457.7	2,108	0.336	2,565	0.408	3,121	0.497	
High Catch (F45%)	2005	636.0	534.2	1,722	0.274	2,019	0.321	2,366	0.377
	2006	700.3	588.3	1,838	0.293	2,183	0.348	2,593	0.413
	2007	731.5	614.5	2,038	0.324	2,483	0.395	3,024	0.482
	2008	735.7	618.0	2,225	0.354	2,780	0.443	3,473	0.553
	2009	728.9	612.3	2,308	0.368	2,924	0.466	3,703	0.590
	2010	707.9	594.7	2,288	0.364	2,902	0.462	3,679	0.586
	2011	679.5	570.8	2,219	0.353	2,797	0.445	3,526	0.561
	2012	655.6	550.7	2,141	0.341	2,676	0.426	3,345	0.533
	2013	635.5	533.8	2,067	0.329	2,564	0.408	3,179	0.506
	2014	618.3	519.4	2,002	0.319	2,467	0.393	3,040	0.484
2015	604.2	507.6	1,945	0.310	2,386	0.380	2,928	0.466	
2016	593.1	498.2	1,896	0.302	2,321	0.370	2,841	0.452	

Executive Summary Table 2. (cont.) All three areas combined. Decision table for three future spawning biomass states-of-nature and three catch scenarios. The 'status quo' fixes the fishing mortality rate (by area) that closely matches the 2005 catch to what was seen in 2004.

Decision Table Aggregate of All Three Areas				Low state (less likely)		Middle state (more likely)		High state (less likely)	
	Year	Catch	Landings	Sp. Bio	Depletion	Sp. Bio	Depletion	Sp. Bio	Depletion
Status Quo (F by Area)	2005	1,727	1,451	14,098	0.496	17,232	0.606	21,071	0.741
	2006	1,714	1,439	14,223	0.500	17,360	0.611	21,196	0.746
	2007	1,726	1,450	14,671	0.516	17,962	0.632	21,997	0.774
	2008	1,752	1,471	15,298	0.538	18,849	0.663	23,230	0.817
	2009	1,783	1,498	15,948	0.561	19,765	0.696	24,503	0.862
	2010	1,818	1,527	16,583	0.584	20,602	0.725	25,601	0.901
	2011	1,853	1,557	17,242	0.607	21,354	0.751	26,450	0.931
	2012	1,884	1,583	17,921	0.631	22,022	0.775	27,065	0.952
	2013	1,911	1,605	18,564	0.653	22,609	0.796	27,536	0.969
	2014	1,933	1,623	19,127	0.673	23,115	0.813	27,934	0.983
	2015	1,951	1,639	19,600	0.690	23,547	0.829	28,288	0.995
2016	1,965	1,651	19,989	0.703	23,913	0.841	28,608	1.007	
F50% Moderate Catch (F50%)	2005	4,940	4,150	14,098	0.496	17,232	0.606	21,071	0.741
	2006	4,743	3,985	13,226	0.465	16,169	0.569	19,774	0.696
	2007	4,634	3,893	12,779	0.450	15,717	0.553	19,335	0.680
	2008	4,578	3,846	12,578	0.443	15,620	0.550	19,402	0.683
	2009	4,562	3,832	12,470	0.439	15,621	0.550	19,573	0.689
	2010	4,562	3,832	12,433	0.438	15,637	0.550	19,668	0.692
	2011	4,566	3,835	12,505	0.440	15,669	0.551	19,635	0.691
	2012	4,573	3,841	12,659	0.445	15,714	0.553	19,508	0.686
	2013	4,579	3,847	12,819	0.451	15,761	0.555	19,379	0.682
	2014	4,584	3,850	12,945	0.456	15,804	0.556	19,294	0.679
	2015	4,587	3,853	13,032	0.459	15,839	0.557	19,252	0.677
2016	4,589	3,855	13,089	0.461	15,870	0.558	19,241	0.677	
High Catch (F45%)	2005	5,830	4,897	14,098	0.496	17,232	0.606	21,071	0.741
	2006	5,490	4,611	12,949	0.456	15,839	0.557	19,380	0.682
	2007	5,278	4,434	12,285	0.432	15,135	0.533	18,650	0.656
	2008	5,148	4,324	11,910	0.419	14,835	0.522	18,481	0.650
	2009	5,079	4,266	11,665	0.410	14,672	0.516	18,457	0.649
	2010	5,040	4,234	11,524	0.405	14,558	0.512	18,395	0.647
	2011	5,016	4,213	11,514	0.405	14,490	0.510	18,236	0.642
	2012	5,001	4,201	11,599	0.408	14,456	0.509	18,017	0.634
	2013	4,991	4,192	11,698	0.412	14,440	0.508	17,825	0.627
	2014	4,982	4,185	11,771	0.414	14,433	0.508	17,698	0.623
	2015	4,975	4,179	11,815	0.416	14,431	0.508	17,626	0.620
2016	4,970	4,175	11,840	0.417	14,431	0.508	17,590	0.619	