ALTERNATIVE HARVEST PROJECTIONS FOR ENGLISH SOLE, REX SOLE, SHARPCHIN ROCKFISH, AND YELLOWTAIL ROCKFISH NORTH OF 40°10' N LATITUDE USED TO INFORM HARVEST SPECIFICATIONS FOR 2017 AND BEYOND

The following tables provide ten-year harvest projections requested to inform 2017 and 2018 harvest specifications. These projections were requested alternative specifications for consideration by the SSC and Council in November. The following tables are included in this attachment:

- Table 1. Projected harvest specifications, spawning biomass, and depletion for the coastwide model in the 2013 English sole assessment assuming future ACL removals (same as Table 8 in Agenda Item I.4, Attachment 4).
- Table 2. Projected harvest specifications, spawning biomass, and depletion for the coastwide model in the 2013 English sole assessment assuming future removals are equal to recent year average catch.
- Table 3. Projected harvest specifications, spawning biomass, and depletion for the coastwide model in the 2013 rex sole assessment assuming future ACL removals (same as Table 12 in Agenda Item I.4, Attachment 4).
- Table 4. Projected harvest specifications, spawning biomass, and depletion for the coastwide model in the 2013 rex sole assessment assuming future removals are equal to recent year average catch.
- Table 5. Projected harvest specifications, spawning biomass, and depletion for the coastwide model in the 2013 sharpchin rockfish assessment assuming future ACL removals (same as Table 13 in Agenda Item I.4, Attachment 4).
- Table 6. Projected harvest specifications, spawning biomass, and depletion for the coastwide model in the 2013 sharpchin rockfish assessment assuming future removals are equal to recent year average catch.
- Table 7. Projected harvest specifications, spawning biomass, and depletion for the coastwide model in the 2013 assessment of yellowtail rockfish north of 40°10' N latitude assuming future ACL removals (REVISED Table 15 in Agenda Item I.4, Attachment 4).
- Table 8. Projected harvest specifications, spawning biomass, and depletion for the coastwide model in the 2013 assessment of yellowtail rockfish north of 40°10' N latitude assuming future removals are equal to recent year average catch.

Table 1. Projected harvest specifications, spawning biomass, and depletion for the coastwide model in the 2013 English sole assessment assuming future ACL removals (same as Table 8 in Agenda Item I.4, Attachment 4).

Year	OFL	ACL	SB	Depletion
2013	10,487	355	25,719	88%
2014	10,623	254	26,019	89%
2015	10,755	300	26,377	90%
2016	10,852	300	26,620	91%
2017	10,914	9,964	26,854	92%
2018	8,255	7,529	19,266	66%
2019	6,697	6,115	14,668	51%
2020	5,799	5,294	12,212	42%
2021	5,301	4,834	10,878	37%
2022	4,994	4,559	10,159	35%
2023	4,793	4,376	9,739	33%
2024	4,642	4,238	9,445	32%
2025	4,529	4,134	9,235	32%
2026	4,452	4,064	9,059	31%

Table 2. Projected harvest specifications, spawning biomass, and depletion for the coastwide model in the 2013 English sole assessment assuming future removals are equal to recent year average catch.

Year	OFL	ABC/ACL (2017 and beyond under default HCRs)	Removal Assumption	SB	Depletion
2013	10,487	6,815	355	25,719	88%
2014	10,623	5,646	254	26,019	89%
2015	10,755	9,853	300	26,377	90%
2016	10,852	7,204	300	26,620	91%
2017	10,914	9,964	300	26,854	92%
2018	10,998	10,041	300	27,050	92%
2019	11,052	10,091	300	27,190	93%
2020	11,101	10,136	300	27,319	93%
2021	11,144	10,175	300	27,380	94%
2022	11,165	10,194	300	27,429	94%
2023	11,198	10,224	300	27,468	94%
2024	11,240	10,262	300	27,499	94%
2025	11,262	10,282	300	27,559	94%
2026	11,293	10,311	300	27,618	94%

Table 3. Projected harvest specifications, spawning biomass, and depletion for the coastwide model in the 2013 rex sole assessment assuming future ACL removals (same as Table 12 in Agenda Item I.4, Attachment 4).

Year	OFL	ACL	SB	Depletion
2013	5,069	560	2,481	78%
2014	5,174	409	2,500	79%
2015	5,313	486	2,539	80%
2016	5,410	486	2,577	81%
2017	5,476	4,999	2,596	82%
2018	4,001	3,639	1,866	59%
2019	3,061	2,786	1,460	47%
2020	2,513	2,291	1,238	39%
2021	2,218	2,019	1,120	36%
2022	2,052	1,858	1,054	34%
2023	1,944	1,772	1,016	33%
2024	1,876	1,708	993	32%
2025	1,830	1,670	974	31%
2026	1,798	1,639	963	31%

Table 4. Projected harvest specifications, spawning biomass, and depletion for the coastwide model in the 2013 rex sole assessment assuming future removals are equal to recent year average catch.

Year	OFL	ABC/ACL (2017 and beyond under default HCRs)	Removal Assumption	SB	Depletion
2013	5,139	3,034	560	2,550	78%
2014	5,229	3,034	409	2,577	79%
2015	5,336	4,801	486	2,603	80%
2016	5,437	3,295	486	2,628	81%
2017	5,518	4,597	486	2,648	82%
2018	5,582	4,650	486	2,671	83%
2019	5,645	4,702	486	2,685	83%
2020	5,697	4,745	486	2,694	83%
2021	5,737	4,779	486	2,708	84%
2022	5,779	4,814	486	2,713	84%
2023	5,817	4,846	486	2,723	84%
2024	5,856	4,878	486	2,731	85%
2025	5,891	4,907	486	2,736	85%
2026	5,918	4,930	486	2,745	85%

Table 5. Projected harvest specifications, spawning biomass, and depletion for the coastwide model in the 2013 sharpchin rockfish assessment assuming future ACL removals (same as Table 13 in Agenda Item I.4, Attachment 4).

Year	OFL	ACL	SB	Depletion
2013	436	11	5,708	71%
2014	441	10	5,842	72%
2015	446	11	5,973	74%
2016	450	11	6,101	75%
2017	455	415	6,226	76%
2018	448	409	5,981	75%
2019	441	403	5,885	73%
2020	435	397	5,672	71%
2021	428	391	5,576	69%
2022	422	385	5,368	67%
2023	413	377	5,294	66%
2024	405	370	5,229	64%
2025	398	363	5,169	63%
2026	391	357	5,082	61%

Table 6. Projected harvest specifications, spawning biomass, and depletion for the coastwide model in the 2013 sharpchin rockfish assessment assuming future removals are equal to recent year average catch.

Year	OFL	ABC/ACL (2017 and beyond under default HCRs)	Removal Assumption	SB	Depletion
2013	436	187	11	5,708	71%
2014	441	187	10	5,842	72%
2015	446	380	11	5,973	74%
2016	450	369	11	6,101	75%
2017	456	436	11	6,226	77%
2018	463	442	11	6,334	78%
2019	469	448	11	6,406	79%
2020	475	454	11	6,474	80%
2021	481	460	11	6,596	81%
2022	487	466	11	6,715	82%
2023	493	471	11	6,821	83%
2024	499	477	11	6,899	84%
2025	504	482	11	6,928	84%
2026	508	486	11	6,954	85%

Table 7. Projected harvest specifications, spawning biomass, and depletion for the coastwide model in the 2013 assessment of yellowtail rockfish north of $40^{\circ}10^{\circ}$ N latitude assuming future ACL removals (REVISED Table 15 in Agenda Item I.4, Attachment 4).

Year	OFL	ACL	SB	Depletion
2013	6,972	1,476	50,058	67%
2014	7,088	1,449	51,100	68%
2015	7,222	6,590	52,122	69%
2016	6,980	6,344	50,122	67%
2017	6,786	6,196	48,453	65%
2018	6,574	6,002	47,313	63%
2019	6,405	5,848	46,657	61%
2020	6,266	5,721	45,936	59%
2021	6,142	5,608	45,121	58%
2022	6,031	5,506	44,374	57%
2023	5,932	5,416	43,747	56%
2024	5,846	5,338	43,339	55%
2025	5,770	5,268	42,942	54%
2026	5,700	5,204	42,467	54%

Table 8. Projected harvest specifications, spawning biomass, and depletion for the coastwide model in the 2013 assessment of yellowtail rockfish north of $40^{\circ}10^{\circ}$ N latitude assuming future removals are equal to recent year average catch.

Year	OFL	ABC/ACL (2017 and beyond under default HCRs)	Removal Assumption	SB	Depletion
2013	6,980	4,378	1,476	50,058	67%
2014	7,088	4,382	1,449	51,100	68%
2015	7,222	6,590	1,411	52,122	69%
2016	7,321	6,344	1,411	53,118	71%
2017	7,409	7,083	1,411	54,289	71%
2018	7,490	7,160	1,411	55,158	73%
2019	7,591	7,257	1,411	55,889	73%
2020	7,680	7,342	1,411	56,809	74%
2021	7,753	7,412	1,411	57,735	75%
2022	7,833	7,488	1,411	58,619	76%
2023	7,906	7,558	1,411	59,242	77%
2024	7,980	7,629	1,411	59,908	77%
2025	8,042	7,688	1,411	60,626	78%
2026	8,106	7,749	1,411	61,040	79%