

ADDITIONAL REBUILDING RUN FOR PACIFIC OCEAN PERCH

The Washington Department of Fish and Wildlife (WDFW) has a preliminary annual catch limit (ACL) proposal for Pacific ocean perch (POP), which we will discuss in more detail under Agenda Item G.4. We are proposing an ACL for 2017 only of 388 mt. Under Amendment 21, the following allocations would result:

ACL = 388 mt

Off the Top Deductions: 24.4 mt

Fishery Harvest Guideline (HG): 363.60 mt

Trawl HG (95% of Fishery HG): 345.42 mt

Whiting Allocation (all sectors): 58.72 mt

 Catcher Processor Sector Allocation: 19.97 mt

 Mothership Sector Allocation: 14.09 mt

Shoreside IFQ Allocation: 311.36 mt

In support of this proposal, WDFW requested a new scenario be run for the POP rebuilding analysis where the ACL is set to 388 mt in 2017 and is then fully harvested. WDFW thanks Dr. Owen Hamel for his timely response to the request.

Table 1 reports the results for the new scenario together with the range of scenarios already considered by the Council. A report with the corresponding table considered by the Council in November is appended for reference. The results show that the difference between 172 mt to 388 mt in 2017 causes a decline of 0.3 to 0.5% in the probability of rebuilding by 2045 and 2071, respectively. However, the difference is not substantial enough to change the Ttarget year of 2051. Recent experience in the trawl fisheries suggest that catch is highly unlikely to reach 172 mt let alone 388 mt.

Table 1. Updated rebuilding runs with the June 2016 catch stream for 2011-2016 and assume a catch of 388 mt in 2017 with the SPR management kicking in in 2018 so the AC (annual catch) for every run is 388 in 2017). ACL and OFL projections from the 2011, Fall 2015, and June 2016 rebuilding analyses with SPR=0.864 are included for comparison (*Source: Owen Hamel, NWFSC, October 7, 2015 and updated June 24, 2016*). Run 4 (shaded) is the focus of WDFW’s proposal.

Case	1		3		4 from 2011 RA		4 from 2015 RA		4 from 2016 RA		4		5		6		11		12
RUN	F=0		SPR for ACTs		SPR for ACLs		SPR for ACLs		SPR for ACLs		SPR for ACLs		SPR from ACTs		SPR from ACLs		40-10		OFL
SPR	1		0.880		0.864		0.864		0.864		0.864		0.858		0.839		>=0.500		0.500
T50%	2043		2050		2051		2051		2051		2051		2052		2053		*		*
P2045	56.3%		41.0%		38.7%		39.4%		39.6%		39.3%		38.7%		36.6%		25.1%		25.1%
P2071	84.8%		75.1%		73.2%		73.6%		73.8%		73.3%		72.7%		70.4%		25.4%		25.2%
	AC	OFL	AC	OFL	AC	OFL	AC	OFL	AC	OFL	AC	OFL	AC	OFL	AC	OFL	AC	OFL	AC=OFL
2017	388	964	388	964	169	948	171	961	172	964	388	964	388	964	388	964	388	964	388
2018	0	981	152	981	173	972	176	985	176	988	175	981	183	981	212	981	740	981	981
2019	0	1007	155	1002	177	993	179	1006	180	1009	178	1001	187	1001	216	1000	737	982	973
2020	0	1031	158	1020	180	1010	182	1023	183	1026	182	1018	190	1018	219	1016	733	980	963
2021	0	1055	161	1039	183	1028	185	1040	186	1043	185	1036	194	1035	223	1032	732	979	955
2022	0	1079	164	1058	187	1047	189	1059	189	1062	188	1055	197	1054	227	1050	736	980	948
2023	0	1106	167	1079			192	1079	193	1082	192	1075	201	1074	231	1069	743	982	944
2024	0	1128	170	1097			195	1096	196	1098	195	1092	204	1090	234	1085	746	983	939
2025	0	1156	173	1119			199	1117	200	1120	198	1113	208	1111	239	1105	752	988	938
2026	0	1185	177	1143			203	1140	204	1143	203	1137	212	1134	243	1126	756	992	937

WEST COAST PACIFIC OCEAN PERCH PROJECTIONS FROM THE 2011 REBUILDING
ANALYSIS WITH ACTUAL CATCH NUMBER IN 2011-2014, AND ACLS IN 2015 AND
2016

Owen Hamel, NWFSC, October 7, 2015

Table 1. Catch values used in the updated rebuilding analysis for 2011 – 2016.

Year	ACL	Estimated or <i>Assumed</i> Catch
2011	180	62
2012	183	56
2013	150	58
2014	153	71
2015	158	<i>158</i>
2016	164	<i>164</i>

Table 2. Updated rebuilding runs with the above catch stream for 2011-2016. When RUN is a year, it represents the lowest SPR that will result in a 50% probability of rebuilding by that year. 2011 rebuilding analysis ACL and OFL projections with SPR=0.864 are included for comparison.

Case	1		2		3		4 from 2011 RA		4		5		6		7		8		9		10		11		12
RUN	F=0		2045		SPR for ACTs		SPR for ACLs		SPR for ACLs		SPR from ACTs		SPR from ACLs		2055		2060		2065		2071		40-10		OFL
SPR	1		0.942		0.880		0.864		0.864		0.858		0.839		0.818		0.782		0.752		0.730		≥0.500		0.500
T50%	2043		2045		2050		2051		2051		2051		2053		2055		2060		2065		2071		*		*
P2045	57.0%		50.0%		41.2%		38.7%		39.4%		38.9%		36.9%		34.7%		31.5%		29.6%		28.4%		25.1%		25.1%
P2071	85.4%		80.9%		75.4%		73.2%		73.6%		72.9%		70.6%		67.1%		61.8%		55.5%		50.0%		25.4%		25.2%
	ACL	OFL	ACL	OFL	ACL	OFL	ACL	OFL	ACL	OFL	ACL	OFL	ACL	OFL	ACL	OFL	ACL	OFL	ACL	OFL	ACL	OFL	ACL	OFL	ACL=OFL
2017	0	961	68	961	149	961	169	948	171	961	180	961	208	961	239	961	297	961	348	961	389	961	717	961	961
2018	0	991	70	989	153	986	173	972	176	985	184	985	212	984	245	983	303	981	354	979	396	978	720	966	958
2019	0	1017	71	1013	156	1007	177	993	179	1006	188	1005	217	1003	249	1001	308	997	360	993	401	990	719	968	951
2020	0	1041	73	1034	159	1025	180	1010	182	1023	191	1022	220	1019	253	1016	312	1010	364	1004	405	1000	715	967	943
2021	0	1064	74	1055	162	1044	183	1028	185	1040	194	1039	224	1035	257	1031	316	1023	368	1016	409	1010	717	967	936
2022	0	1089	76	1077	165	1063	187	1047	189	1059	198	1057	227	1053	261	1047	320	1037	373	1029	414	1022	721	969	930
2023	0	1115	78	1101	168	1084			192	1079	202	1077	231	1072	265	1065	325	1053	378	1043	419	1035	729	972	927
2024	0	1137	79	1121	171	1101			195	1096	205	1094	235	1087	269	1080	329	1066	382	1054	423	1045	733	973	922
2025	0	1165	81	1146	174	1123			199	1117	209	1115	239	1107	273	1099	334	1083	387	1070	429	1059	739	978	922
2026	0	1194	83	1172	178	1147			203	1140	213	1137	244	1129	278	1119	340	1101	393	1086	435	1074	744	983	922