

Orientation: Existing Analyses – Extracts

November 2017..... 1
 March 2018 3
 March Analysis Related to Gear Switching and Sablefish Management Area Issues..... 3
 March Analysis Related to Attainment..... 4
 March Analyses Related to Other Policies Impacting Attainment 5

November 2017

<u>F.2, Attachment 6, November 2018</u> (also includes analytical information provided in September 2017))														
Southern Sablefish Issues														
<i>What is the nature of the S of 36 gear conflict problem</i>	p. 18 (pg. 4)	References to Catch Share Review – Gear switching starts on 3-132 Southern allocation and utilization on 3-134 Conflicts with other fisheries on 3-183												
<i>How active have northern vessels been in the south?</i>	p. 18-19 (pg. 4-5)	2011 – 2016 – 11 vessels with activity in the north accounted for 50-60% of southern trawl sector sablefish. No more than 4 in any one year.												
<i>Where is trawl sector southern sablefish landed?</i>	p. 19 (pg. 5)	Ninety percent in Morrow Bay												
<i>How significant is the unused southern allocation relative to the northern allocation?</i>	p. 19 (pg. 5)	Unused southern allocation equal to about 25 percent of northern allocation. If there were a single coastwide allocation, vessels that have been travelling south might stay north (see 50% to 60% value above). (Table 2)												
<i>If north and south were combined, how might accumulation limits be adjusted?</i>	p. 19-20 (pg. 5-7)	Recalculation of limits based on neutral result (using 2016 trawl allocations) (Table 3)												
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>QS Control</th> <th>QP Vessel</th> </tr> </thead> <tbody> <tr> <td>North</td> <td>3%</td> <td>4.5%</td> </tr> <tr> <td>South</td> <td>10%</td> <td>15.0%</td> </tr> <tr> <td>Neutral Coastwide</td> <td>4.7%</td> <td>7.1%</td> </tr> </tbody> </table>		QS Control	QP Vessel	North	3%	4.5%	South	10%	15.0%	Neutral Coastwide	4.7%	7.1%
	QS Control	QP Vessel												
North	3%	4.5%												
South	10%	15.0%												
Neutral Coastwide	4.7%	7.1%												
Gear Switching														
<i>Analysis requests</i>	p. 21 (pg. 7)	Four bullets from June 2017 Council meeting												
Caveats														
<ul style="list-style-type: none"> • In the following, data for 2017 is partial, allowing only limited conclusions for 2017 results. • Permit counts for gear switching should be considered lower bounds (There are IFQ landings without an associated LE Permit code—mainly south of 36° N. lat.—that might or might not affect the total counts) • In some cases, southern sablefish landing totals are also lower bounds due to missing LE permit codes and omitted permit records. See March 2018 analysis for complete data. 														
<i>How many vessels have been involved in gear switching</i>	p. 21 (pg. 7)	Cumulative total number of permits with at least one year (over 50) (Figure 2) (may be a lower bound count)												
<i>Information useful for developing a gear switching endorsement qualifying requirement.</i>	p. 22 (pg. 8)	Number of years in which a vessel made one gear switched deliveries. Thirty out of the over 50 vessels gear switching have participated in not more than 2 of 7 years. (Figure 3) (may be a lower bound count)												
<i>How many vessels gear switch each year and how much is landed?</i>	p. 22 (pg. 8)	After the first few years of the program, on average, just over 15 vessels gear switched in each year. (Figure 4) (may be a lower bound).												

March 2018

March Analysis Related to Gear Switching and Sablefish Management Area Issues

<u>H.2, Attachment 1, March 2018</u>		
<i>How significant is the unused southern sablefish allocation relative to the northern allocation?</i>	p. 1 (pg. 20)	Unused southern allocation is around 25% of total northern allocation, equivalent to an exvessel value of \$2 to \$3 million. Reprises and augments September analysis (Table 1).
<i>How much sablefish is landed through gear switching?</i>	p. 2 (pg. 21)	In the north an average of 68% of the landings and 64% of the allocations. In the south an average of 96% of the landings and 31% of the allocation (lower due to the unused sablefish) (Table 2).
<i>What is the difference in profitability between north and south?</i>	p. 3-4 (pg.22-23)	Note that while there is only a small differential in exvessel prices (Table 3, p. 3) there is a large differential in the price for QP and possibly QS (Table 4 and Table 5). This indicates a likelihood that there are higher harvest costs or other barriers to participation in the south making it less profitable to fish there.
<i>Are vessel QP limits constraining harvest?</i>	p. 4-6 (pg. 23-25)	For sablefish north, the average number of vessels reaching more than 90% of the QP limit is 2.7, of which 2.0 are using fixed gear. For sablefish south the average number is 0.4, of which all are using fixed gear (Table 7).
<i>Might reducing the vessel QP limit for sablefish make more sablefish available for vessels using trawl gear.</i>	p. 6 (pg. 25)	The amount of QP potentially feed up by reducing the limits, for example, from 4.5% to 3.0% would cause a redistribution of about 5.1% of the catch (roughly 75% of it from fixed gear vessels, on average). Whether those QP would then be acquired by vessels using trawl gear is uncertain (Table 8).

March Analysis Related to Attainment

H.6, Attachment 1, March 2018		
What are indicators that annual vessel QP limits for individual species are or are not limiting total attainment?		
<i>What are the annual vessel QP and control limits?</i>	p. 21 (pg. 29)	Table 9 lists the annual vessel QP limits.
<i>For which species is the shoreside fishery following well short on attaining its allocations?</i>	p. 22 (pg. 30)	All except petrale sole and northern sablefish, and in many years, Pacific whiting. (Table 10).
<i>For which species might recent ACL increases be contributing to under-attainment in more recent years?</i>	p. 24 (pg. 32)	In particular, widow, Pacific whiting, POP, minor shelf (RCAs more an issue), Dover sole, darkblotched, chilipepper (south), canary, bocaccio rockfish (south), arrowtooth flounder (Figure 1).
<i>How close are vessels coming to the QP limit?</i>	p. 25-26 (pg. 33-34)	Data shows vast majority of vessels do not come close to the vessel QP limit. There are an average of 10.6 instances each year of a vessel approaching within 10% of the limit (Table 12).
SSC Caveat	p. 25 (pg. 33)	The SSC notes this does not necessarily mean that vessels would not take more if vessel QP limits were higher. Fishermen may not move to larger vessels because of the QP limits. Thus QP limits might constrain efficiency (if larger capacity vessels are more efficient). Notes: How vessel efficiency impacts attainment depends on the cause of under attainment. If attainment is market limited, larger more efficient vessels might allow lower exvessel prices, allowing a reduced ex-processor price and expansion of shares in wholesale markets. If attainment is constraining species limited, increased efficiency would not be expected to change attainment.
<i>For which species do the annual vessel limits appear to be most constraining?</i>	p. 27 (pg. 35)	Sablefish (2.7 vessels per year within 10% of the limit) and Petrale (3.3 vessels per year within 10% of the limit). For 10 species, the average is less than 1 vessel per year. For 17 species, no vessel comes within 10% of the limit. (Table 13)
<i>For which species might there not be enough vessels operating to attain the allocation (given the annual vessel QP limit)</i>	p. 28 (pg. 36)	There are eight species/species groups where this might be the case, all in the south (see bolded rows in Table 14, ignore bolding for yelloweye). Reprise of the Sept/Nov analysis..
<i>How much might attainment increase over the short-term with an increase in the vessel QP limit.</i>	p. 29 (pg. 37)	For a 30% increase in the limit, one methodology shows increases in attainment of the allocation of 6% or less for 10 species. As a percent of catch, the increases were greater. (Table 15).
<i>How would a 30% increase in limits change the number of vessels required to take the full trawl allocation?</i>	p. 30 (pg. 38)	For most species, it would decrease the minimum number of vessels required by 1 or 2 (for slope rockfish, it would decrease by 3). (Table 16) ^{a/}
<i>What might limit vessel QP limit increases mean for individual vessels, in terms of vessel income.</i>	p. 31 (pg. 39)	Hypothetical 30% increases of vessel QP limits could mean up to \$200,000 dollars of additional income for a species such as widow rockfish, less for other species, assuming a vessel is able to fully utilize the increase (Table 17) ^{a/}

a/ Shortspine thornyheads and splitnose should be added to Tables 16 and 17.

March Analyses Related to Other Policies Impacting Attainment

Post-season Trading to Cover Previous Year Deficits

Table 20 (p. 40, *pg. 42*). Shows that being able to cover post-season deficits through trading of previous years QP will contribute only a small amount to the QP available in the subsequent year. The species where the provision would be most significant are canary, Pacific ocean perch, Pacific whiting. Table 25 (p. 45, *pg. 43*) shows that there would be adequate amounts of surplus carryover available to cover those deficits.

Eliminate September 1 Expiration of QP in QS Accounts

Table 26 (p. 47, *pg. 44*) shows that some relatively large amounts of Dover sole and whiting have expired on September 1, because they had not been transferred from a vessel account. For constraining species, such as petrale sole and sablefish north the amount of expiring QP is quite small.