

### **Summary of 2016 Groundfish Mortality in California**

The California Department of Fish and Wildlife (CDFW) provides the following informational report on mortality of select groundfish species for 2016. The following tables provide estimated mortality of select species by month for the recreational sector (Table 1), estimated mortality of select species by month for the commercial sector (Table 2), and estimated harvest compared to federally designated harvest specifications (Table 3). Mortality is reported in metric tons and includes landings plus discards for the recreational fishery and landings for the commercial fishery without discard mortality estimates. These 2016 data are preliminary. CDFW will provide updates on the status of the 2017 fishing season as it progresses.

Table 1. Estimated mortality (mt) of select groundfish species in the California recreational sector by month, 2016.

Species	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
<b>BOCACCIO</b>	-	0.0	3.8	7.7	11.8	6.7	1.8	8.7	9.1	11.5	4.6	2.4	68.1
<b>CANARY ROCKFISH</b>	-	-	0.7	1.2	3.9	3.6	2.9	5.0	3.6	0.8	1.1	0.8	23.6
<b>COWCOD</b>	-	-	0.3	0.1	0.1	0.1	-	-	0.1	-	0.0	-	0.7
<b>YELLOWEYE ROCKFISH</b>	-	-	-	0.0	0.2	0.2	0.1	0.3	0.2	0.1	0.0	0.2	1.3
Black Rockfish	0.0	0.0	0.1	4.4	15.7	26.4	37.4	41.2	23.2	8.9	4.6	3.1	165.0
Blackgill Rockfish S 40°10' N lat.	-	-	-	-	-	-	-	-	-	-	-	-	-
Blue Rockfish	0.1	0.0	3.6	11.5	8.1	13.1	18.3	22.0	23.4	18.5	15.8	9.0	143.4
Cabazon	1.0	0.9	1.6	2.0	5.0	5.4	7.9	8.4	7.5	2.7	0.5	2.6	45.5
CA Scorpionfish	2.0	4.5	3.6	5.6	14.0	13.7	15.4	12.8	0.1	0.3	0.1	0.1	72.2
Greenlings	0.4	0.5	0.2	0.7	1.6	1.5	1.0	1.2	1.6	0.6	0.6	0.5	10.4
Lingcod S 40°10' N lat.	0.5	0.3	3.8	29.2	66.8	65.6	61.3	111.5	79.8	44.6	20.8	95.6	579.8
Nearshore RF N 40°10' N lat	-	-	-	0.0	0.5	1.4	1.5	4.4	2.0	0.7	-	-	10.5
Nearshore RF S 40°10' N lat.	0.3	0.4	14.3	48.1	52.7	65.0	77.9	77.9	73.5	59.0	36.3	29.9	535.3

Note: 0.0 indicates trace mortality; a dash (-) indicates no mortality.

Table 2. Estimated mortality (mt) of select groundfish species in the California commercial sector by month, 2016.

Species	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
<b>BOCACCIO</b>	0.6	0.6	-	0.0	0.6	0.6	0.6	0.6	0.4	0.3	0.1	0.5	4.9
<b>CANARY ROCKFISH</b>	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>COWCOD</b>	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>YELLOWEYE ROCKFISH</b>	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Rockfish	0.3	2.1	3.6	9.3	5.6	6.9	10.0	12.1	6.6	5.8	0.1	0.7	63.1
Blackgill Rockfish S 40°10' N lat.	1.6	1.3	3.4	2.4	2.0	1.6	2.4	2.6	2.8	0.9	0.5	1.1	22.6
Blue Rockfish	0.4	1.0	0.8	0.3	0.4	0.2	0.9	1.2	0.9	0.9	0.3	0.9	8.2
Cabazon	1.8	2.2	-	-	4.8	2.5	4.6	5.0	3.9	2.1	1.2	1.8	29.9
CA Scorpionfish	-	0.0	-	-	0.2	0.4	0.7	0.5	0.2	0.1	0.1	0.0	2.2
Greenlings	0.4	0.7	0.0	0.0	0.6	0.3	0.5	0.9	0.7	0.4	0.1	0.3	4.9
Lingcod S 40°10' N lat.	1.7	-	1.9	0.1	9.8	5.3	9.2	10.2	9.4	6.1	2.7	2.8	59.2
Nearshore RF N 40°10' N lat.	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.6	0.2	0.0	-	0.0	1.1
Nearshore RF S 40°10' N lat.	5.5	7.0	-	-	8.1	6.6	9.5	12.5	9.9	6.5	3.3	6.9	75.8

Note: Landings include non-trawl, non-IFQ fixed-gears for limited entry and open access sectors.  
 Data are preliminary and mortality estimates do not include discard mortality.  
 Blackgill rockfish landings include both IFQ and non-IFQ sectors.  
 Neither black nor blue rockfishes are included in the Nearshore Rockfish North or South monthly amounts.  
 0.0 indicates trace mortality; a dash (-) indicates no mortality.

Table 3. Estimated mortality (mt) of select groundfish species in California during 2016 compared to corresponding 2016 harvest specifications.

	Reference point description	Estimated mortality (mt)	Management reference points	
			ACL/HG (mt)	% of ACL/HG
<b>Overfished Stocks</b>				
Bocaccio	HG (rec)	68.1	178.8	38%
Canary rockfish	HG (rec)	23.6	24.3	97%
Cowcod	Non-Trawl Alloc.	0.7	2.6	27%
Yelloweye rockfish	HG (rec)	1.3	3.4	38%
<b>Non-Overfished Stocks</b>				
Black rockfish	HG (statewide)	228.1	420	54%
Blackgill rockfish S 40°10' N lat. <sup>a</sup>	HG	22.6	117	19%
Blue rockfish	HG (statewide)	151.6	198.3	76%
Cabazon	ACL	75.4	151	50%
California scorpionfish <sup>b</sup>	ACL	74.4	111	67%
Greenlings	HG (statewide)	15.3	55.3	28%
Lingcod S 40° 10' N lat.	Non-Trawl Alloc.	639.0	515.3	124%
Nearshore rockfish N 40°10' N lat. <sup>c, d</sup>	HG	11.6	23.7	49%
Nearshore rockfish S 40°10' N lat. <sup>d</sup>	ACL	611.1	1,002	61%

a) Includes IFQ landings.

b) The recreational fishery for California scorpionfish closed on September 1.

c) Applies only between 40°10' N lat. and 42° N lat.

d) Does not include black and blue rockfish mortality estimates.