

Harvest Projection Assessments

GOA Groundfish Plan Team



September, 2026

Dusky rockfish - Omori
Flathead sole - Cronin-Fine
Shallow water flatfish - Bryan
Deep water flatfish - McGilliard

GOA Dusky Rockfish (Tier 3a)

Not overfishing, overfished or approaching overfished

- Fishery Trends: increased in 2026, but under ABC
 - Catches in 2024-2025 were low, but increased in 2026
- Survey Trends: near average
 - Last survey 2025, next 2027
 - Use model-based, sdmTMB for survey index
- Last full/update assessment 2024, next 2027
- 2027 spawning biomass 32,665; trend steady
- ABC: 5,693 t, OFL: 6,920 t
 - No reduction in ABC

Quantity/Status	As estimated or <i>specified</i> <i>last year for:</i>		As estimated or <i>recommended this year for:</i>	
	2025	2026	2027*	2028*
M (natural mortality)	0.07	0.07	0.07	0.07
Tier	3a	3a	3a	3a
Projected total (age 4+) biomass (t)	85,912	83,297	79,386	78,764
Projected female spawning biomass (t)	35,982	34,478	32,665	31,312
B _{100%}	59,467	59,467	59,469	59,469
B _{40%}	23,787	23,787	23,788	23,788
B _{35%}	20,813	20,813	20,814	20,814
F _{OFL}	0.111	0.111	0.111	0.111
maxF_{ABC}	0.090	0.090	0.090	0.090
F _{ABC}	0.090	0.090	0.090	0.090
OFL (t)	7,705	7,319	6,920	6,577
maxABC (t)	6,338	6,021	5,693	5,411
ABC (t)	6,338	6,021	5,693	5,411
Status	As determined <i>last year for:</i>		As determined <i>this year for:</i>	
	2024	2025	2026	2027
Overfishing	No	n/a	No	n/a
Overfished	n/a	No	n/a	No
Approaching overfished	n/a	No	n/a	No

GOA Flathead Sole (Tier 3a)

Not overfishing, overfished or approaching overfished

- Fishery Trends: catch is low but around the same level as past couple of years
- Survey Trends: Increase by ~44.7% from last survey value (2023)
 - last survey 2025, next 2027
- Last full/update assessment 2022, next 2027
- 2026 spawning biomass 100,537 t trend stable
- ABC: 41,975 t, OFL: 51,152 t
 - Very small reduction in ABC

Quantity	As estimated or specified last year for:		As estimated or recommended this year for:	
	2025	2026	2027	2028
M (natural mortality rate)	0.2	0.2	0.2	0.2
Tier	3a	3a	3a	3a
Projected total (3+) biomass (t)	293,674	291,288	288,245	285,673
Female spawning biomass (t)	98,986	100,272	100,537	100,241
$B_{100\%}$	92,582	92,582	92,582	92,582
$B_{40\%}$	37,033	37,033	37,033	37,033
$B_{35\%}$	32,404	32,404	32,404	32,404
F_{OFL}	0.36	0.36	0.36	0.36
$maxF_{ABC}$	0.29	0.29	0.29	0.29
F_{ABC}	0.29	0.29	0.29	0.29
OFL (t)	50,587	51,176	51,152	50,740
maxABC (t)	41,476	41,980	41,975	41,639
ABC (t)	41,476	41,980	41,975	41,639
Status	As determined last year for:		As determined this year for:	
	2025	2026	2027	2028
Overfishing	No	n/a	No	n/a
Overfished	n/a	No	n/a	No
Approaching overfished	n/a	No	n/a	No

Thanks to Lee Cronin-Fine

GOA Shallow-water flatfish (Tier 3a, 5)

Not overfishing, overfished or approaching overfished

- Fishery Trends: overall catch remains low
- Survey Trends: English sole increasing, NRS and YFS declining, all others variable and flat
- Last full/update assessment 2021, next 2027
- ABC: 56,518 t, OFL: 69,206 t
 - Small reduction in ABC

Quantity/Status	As estimated or <i>specified in 2024 for:</i>		As estimated or <i>recommended this year for:</i>	
	2025	2026	2027	2028
<i>M</i> (natural mortality)	0.2**	0.2**	0.2**	0.2**
Tier	3a, 5	3a, 5	3a, 5	3a, 5
Biomass (t)	454,847	455,146	448,887	446,886
<i>F</i> _{OFL}	*	*	*	*
<i>maxF</i>_{ABC}	*	*	*	*
<i>F</i> _{ABC}	*	*	*	*
OFL (t)	69,277	69,610	69,206	68,867
<i>maxABC</i> (t)	56,559	56,910	56,518	56,236
ABC (t)	56,559	56,910	56,518	56,236
Status	As determined in <i>2024 for:</i>		As determined <i>this year for:</i>	
	2023	2024	2025	2026
Overfishing	No	n/a	No	n/a

GOA (central east) northern rock sole (Tier 3a)

Not overfishing, overfished or approaching overfished

- Fishery Trends: overall catch remains low
- Survey Trends: More variable than western GOA, declining trend
- Last full/update assessment 2021, next 2027
- ABC: 56,518 t, OFL: 69,206 t
 - Small reduction in ABC

Northern rock sole, Central-Eastern GOA	As estimated or specified in 2024 for:		As estimated or recommended this year for:	
	2025	2026	2027	2028
Quantity				
M (natural mortality rate; female, male)	0.2, 0.232*	0.2, 0.232*	0.2, 0.232*	0.2, 0.232*
Tier	3a	3a	3a	3a
Projected total (age 0+) biomass (t)	39,925	40,808	39,988	40,290
Projected Female spawning biomass (t)	17,277	17,890	17,668	17,525
$B_{100\%}$	20,913	20,913	20,913	20,913
$B_{40\%}$	8,365	8,365	8,365	8,365
$B_{35\%}$	7,320	7,320	7,320	7,320
F_{OFL}	0.181	0.181	0.181	0.181
$\max F_{ABC}$	0.153	0.153	0.153	0.153
F_{ABC}	0.153	0.153	0.153	0.153
OFL (t)	5,383	5,504	5,401	5,437
$\max ABC$ (t)	4,600	4,703	4,615	4,646
ABC (t)	4,600	4,703	4,615	4,646
Status	As determined in 2024 for:		As determined this year for:	
	2023	2024	2025	2026
Overfishing	No	n/a	No	n/a
Overfished	n/a	No	n/a	No
Approaching overfished	n/a	No	n/a	No

Thanks to Meaghan Bryan

GOA (west) northern rock sole (Tier 3a)

Not overfishing, overfished or approaching overfished

- Fishery Trends: overall catch remains low
- Survey Trends: Declining trend
- Last full/update assessment 2021, next 2027
- ABC: 9,305 t, OFL: 11,202 t
 - Part of shallow-water flatfish ABC and OFL

Northern rock sole, Western GOA Quantity	As estimated or specified in 2024 year for:		As estimated or recommended this year for:	
	2025	2026	2027	2028
<i>M</i> (natural mortality rate; female, male)	0.2, 0.254*	0.2, 0.254*	0.2, 0.254*	0.2, 0.254*
Tier	3a	3a	3a	3a
Projected total (age 0+) biomass (t)	67,322	67,374	66,515	66,207
Projected Female spawning biomass (t)	30,344	30,491	30,424	29,148
<i>B</i> _{100%}	28,702	28,702	28,702	28,702
<i>B</i> _{40%}	11,481	11,481	11,481	11,481
<i>B</i> _{35%}	10,045	10,045	10,045	10,045
<i>F</i> _{OFL}	0.385	0.385	0.385	0.385
<i>maxE</i>_{ABC}	0.313	0.313	0.313	0.313
<i>F</i> _{ABC}	0.313	0.313	0.313	0.313
OFL (t)	11,046	11,119	11,202	11,169
<i>maxABC</i> (t)	9,168	9,290	9,305	9,279
ABC (t)	9,168	9,290	9,305	9,279
Status	As determined in 2024 year for:		As determined this year for:	
	2023	2024	2025	2026
Overfishing	No	n/a	No	n/a
Overfished	n/a	No	n/a	No
Approaching overfished	n/a	No	n/a	No

GOA (central east) southern rock sole (Tier 3a)

Not overfishing, overfished or approaching overfished

- Fishery Trends: overall catch remains low
- Survey Trends: Variable over time, rather flat
- Last full/update assessment 2021, next 2027
- ABC: 15,540 t, OFL: 18,379 t
 - Small reduction in ABC

Southern rock sole, Central-Eastern GOA	As specified in 2024 for:		As estimated or recommended this year for:	
	2025	2026	2027	2028
Quantity				
M (natural mortality rate; female, male)	0.2, 0.253*	0.2, 0.253*	0.2, 0.253*	0.2, 0.253*
Tier	3a	3a	3a	3a
Projected total (age 0+) biomass (t)	135,442	135,558	133,027	132,225
Projected Female spawning biomass (t)	54,486	56,993	57,045	55,143
$B_{100\%}$	53,439	53,439	53,439	53,439
$B_{40\%}$	21,376	21,376	21,376	21,376
$B_{35\%}$	18,703	18,703	18,703	18,703
F_{OFL}	0.268	0.268	0.268	0.268
$maxF_{ABC}$	0.224	0.224	0.224	0.224
F_{ABC}	0.224	0.224	0.224	0.224
OFL (t)	18,283	18,522	18,379	18,296
$maxABC$ (t)	15,450	15,657	15,540	15,473
ABC (t)	15,450	15,657	15,540	15,473
Status	As determined last year for:		As determined this year for:	
	2023	2024	2025	2026
Overfishing	No	n/a	No	n/a
Overfished	n/a	No	n/a	No
Approaching overfished	n/a	No	n/a	No

GOA (west) southern rock sole (Tier 3a)

Not overfishing, overfished or approaching overfished

- Fishery Trends: overall catch remains low
- Survey Trends: Variable over time, rather flat
- Last full/update assessment 2021, next 2027
- ABC: 12,329 t, OFL: 14,584 t
 - Part of shallow-water flatfish ABC and OFL

Southern rock sole, Western GOA Quantity	As specified in 2024 for:		As estimated or recommended this year for:	
	2024	2025	2027	2028
<i>M</i> (natural mortality rate; female, male)	0.2, 0.271*	0.2, 0.271*	0.2, 0.271*	0.2, 0.271*
Tier	3a	3a	3a	3a
Projected total (age 0+) biomass (t)	113,955	113,202	111,154	109,961
Projected Female spawning biomass (t)	49,053	50,699	50,703	48,502
<i>B</i> _{100%}	43,788	43,788	43,788	43,788
<i>B</i> _{40%}	17,515	17,515	17,515	17,515
<i>B</i> _{35%}	15,326	15,326	15,326	15,326
<i>F</i> _{OFL}	0.222	0.222	0.222	0.222
<i>max F_{ABC}</i>	0.185	0.185	0.185	0.185
<i>F</i> _{ABC}	0.185	0.185	0.185	0.185
OFL (t)	14,925	14,825	14,584	14,325
<i>max ABC</i> (t)	12,612	12,531	12,329	12,109
ABC (t)	12,612	12,531	12,329	12,109
As determined <i>last</i> year for:		As determined <i>this</i> year for:		
Status	2022	2023	2025	2026
Overfishing	No	n/a	No	n/a
Overfished	n/a	No	n/a	No
Approaching overfished	n/a	No	n/a	No

GOA Deepwater Flatfish (Tiers 3a, 6)

Not overfishing, overfished or approaching overfished

- Fishery Trends: almost no fishing in recent years (65 t for 2026 so far)
- Dover sole (Tier 3a) Survey Trends::
 - Increase in 2025 after low biomass 2015-2023
 - last survey 2021, next 2023
- Last full/update assessment 2023, next 2027
- 2027 spawning biomass 23,625 t
- Complex ABC: 6,702 t, OFL: 7,959 t
 - Very similar ABC for 2027 as estimated in 2025
- Tier 6 ABC based on historical catch - no change

Species	Quantity	As estimated or specified last year for:		As estimated or recommended this year for:	
		2026	2027	2027	2028
Dover sole	Tier	3a	3a	3a	3a
	OFL (t)	7,994	7,830	7,835	7,660
	maxABC (t)	6,743	6,604	6,609	6,462
	ABC (t)	6,743	6,604	6,609	6,462
Greenland turbot	Tier	6	6	6	6
	OFL (t)	49	49	49	49
	maxABC (t)	37	37	37	37
	ABC (t)	37	37	37	37
Kamchatka flounder	Tier	6	6	6	6
	OFL (t)	69	69	69	69
	maxABC (t)	51.75	51.75	52	52
	ABC (t)	51.75	51.75	52	52
Deepsea sole	Tier	6	6	6	6
	OFL (t)	6	6	6	6
	maxABC (t)	4	4	4	4
	ABC (t)	4	4	4	4
Deepwater Flatfish Complex	OFL (t)	8,118	7,954	7,959	7,784
	maxABC (t)	6,836	6,697	6,702	6,555
	ABC (t)	6,836	6,697	6,702	6,555
	Status	As determined last year for:		As determined this year for:	
		2024	2025	2025	2026
	Overfishing	no	n/a	no	n/a
	Overfished	n/a	no	n/a	no
	Approaching overfished	n/a	no	n/a	no

Thanks to Carey McGilliard