

GOA Flathead Sole Partial Assessment

(Full assessment planned for 2021)

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Executive summary table

- Projection model uses output from age-structured model
- Used age 3 recruits
- 2018 catch estimated as 2018 current catch up to Oct 6 + 5-yr average Oct 6-Dec 31 catch
- 2019-2020 catch estimated as 2013-2017 average catch

Quantity	As estimated or <i>specified last year for:</i>		As estimated or <i>recommended this year for:</i>	
	2018	2019	2019*	2020*
M (natural mortality rate)	0.2	0.2	0.2	0.2
Tier	3a	3a	3a	3a
Projected total (3+) biomass (t)	281,635	283,107	283,285	282,750
Projected Female spawning biomass (t)	85,765	89,118	89,205	92,655
$B_{100\%}$	91,551	91,551	91,551	91,551
$B_{40\%}$	36,620	36,620	36,620	36,620
$B_{35\%}$	32,043	32,043	32,043	32,043
F_{OFL}	0.36	0.36	0.36	0.36
$maxF_{ABC}$	0.28	0.28	0.28	0.28
F_{ABC}	0.28	0.28	0.28	0.28
OFL (t)	43,011	44,822	44,865	46,666
maxABC (t)	35,266	36,746	36,782	38,273
ABC (t)	35,266	36,746	36,782	38,273
Status	As determined <i>last year</i> for:		As determined <i>this year</i> for:	
	2016	2017	2017	2018
Overfishing	no	n/a	no	n/a
Overfished	n/a	no	n/a	no
Approaching overfished	n/a	no	n/a	no

Area Apportionment

- Random effects model used to smooth survey biomass by area

Quantity	Western	Central	West Yakutat	Southeast	Total
Area Apportionment	35.98%	57.39%	5.48%	1.15%	100.00%
2019 ABC (t)	13,234	21,109	2,016	423	36,782
2020 ABC (t)	13,771	21,965	2,097	440	38,273

- Survey biomass in 2017 was 236,589 t, up by ~ 9% from 2015

