

Proposal 157 - Established GHGs compared to proposed GHGs, with estimated exvessel value in the Sitka Sound commercial sac roe herring fishery, 2011–2020.

Year	Actual forecast biomass (tons)	Actual GHL (tons)	Actual Target HR <sup>a</sup>	Approximate exvessel value based on actual harvest (\$US)	Forecast biomass age-3&4	Forecast biomass age-5+	Proposed GHL age-3&4	Proposed GHL age-5+	Proposed GHL total	Difference in GHL (Proposed –Actual)	Proposed GHL as percent of actual	Proposed total target HR	Additional percent population un-harvested
2011	97,449	19,490	20.0%	\$5,165,513	14,617	82,832	1,462	16,567	18,028	-1,462	93%	18.5%	1.5%
2012	144,143	28,829	20.0%	\$8,336,160	39,571	104,571	3,957	20,915	24,872	-3,957	86%	17.3%	2.7%
2013	76,988	11,549	15.0%	\$4,436,640	17,039	59,948	1,704	8,993	10,697	-852	93%	17.8%	-2.8%
2014	81,663	16,333	20.0%	\$3,052,260	24,287	57,375	2,429	11,475	13,904	-2,429	85%	17.0%	3.0%
2015	44,237	8,712	19.7%	\$2,189,000	4,545	39,692	448	7,817	8,264	-448	95%	19.0%	0.7%
2016	74,707	14,941	20.0%	\$2,458,250	46,937	27,770	4,694	5,554	10,247	-4,694	69%	13.7%	6.3%
2017	73,245	14,649	20.0%	\$4,288,284	6,257	66,988	626	13,398	14,023	-626	96%	19.1%	0.9%
2018	55,637	11,128	20.0%	\$1,003,618	26,611	29,026	2,661	5,805	8,467	-2,661	76%	15.2%	4.8%
2019	64,343	12,869	20.0%	–	30,096	34,247	3,010	6,850	9,859	-3,010	77%	15.3%	4.7%
2020	212,330	25,824	12.2%	–	169,857	42,474	16,986	5,166	22,151	-3,673	86%	12.0%	0.2%
Average 2011–2020	92,474	16,432	19.00%	\$3,092,972	37,982	54,492	3,798	10,254	14,051	-2,381	85%	16.5%	2.2%
Total 2011–2020	–	164,324	–	\$30,929,725	379,818	544,922	37,975	102,538	140,513	-23,811	–	–	–

<sup>a</sup> Precautionary decrements were made in 2013 and 2020, which affect proposed scenarios for those years and should be interpreted accordingly.

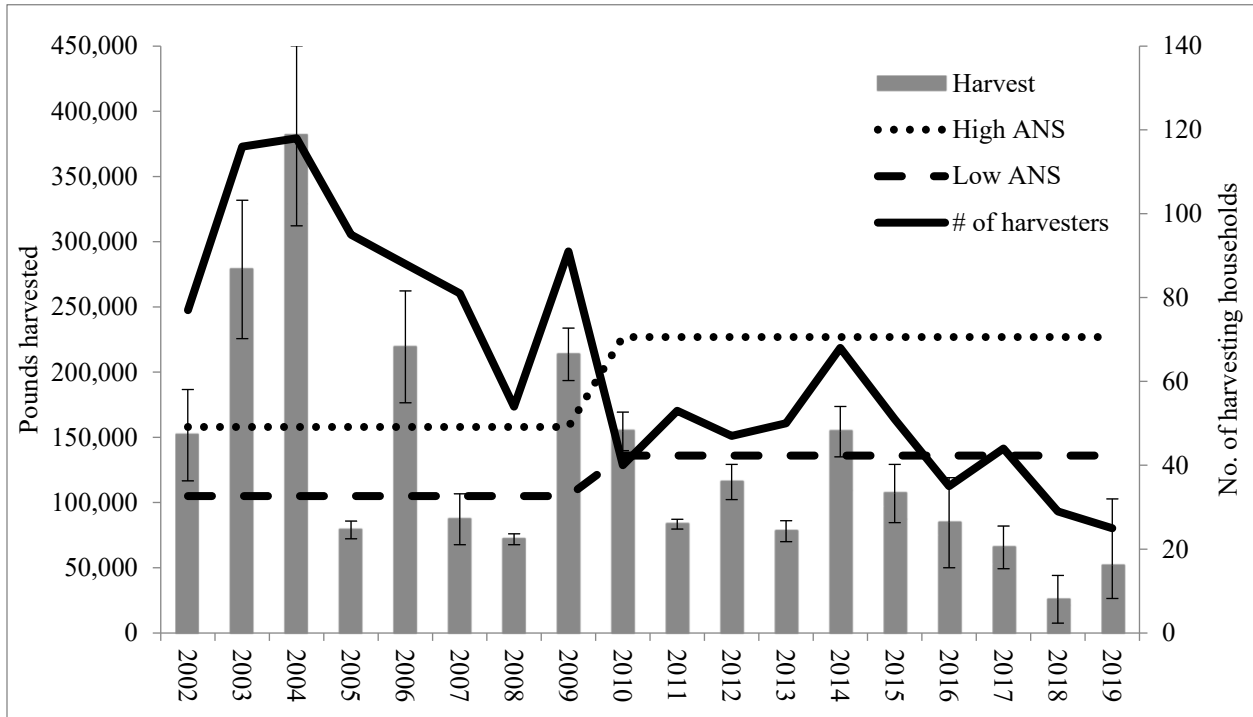
Proposal 157 - Exploitation by age (based on biomass) for Sitka Sound herring, 2001–2020. No fisheries took place in 2019 or 2020 (dashes indicate values not applicable).

Year	Age 3	Age 4	Age 5	Age 6	Age 7	Age 8+	Total
2001	13%	15%	21%	23%	23%	23%	18%
2002	10%	12%	17%	18%	18%	18%	15%
2003	6%	7%	9%	10%	10%	10%	8%
2004	7%	8%	11%	12%	13%	13%	10%
2005	7%	9%	12%	13%	14%	14%	12%
2006	8%	9%	12%	14%	14%	14%	12%
2007	9%	11%	15%	17%	17%	17%	14%
2008	10%	11%	16%	17%	18%	18%	14%
2009	8%	10%	14%	15%	15%	15%	13%
2010	10%	12%	16%	18%	18%	18%	16%
2011	11%	13%	18%	20%	20%	20%	18%
2012	10%	12%	17%	18%	19%	19%	17%
2013	5%	5%	8%	8%	8%	8%	8%
2014	15%	17%	24%	26%	26%	26%	24%
2015	9%	11%	15%	17%	17%	17%	14%
2016	10%	12%	17%	18%	18%	18%	14%
2017	14%	17%	23%	25%	26%	26%	22%
2018	4%	4%	6%	6%	7%	7%	5%
2019	–	–	–	–	–	–	–
2020	–	–	–	–	–	–	–
Average 2001–2018	9%	11%	15%	16%	17%	17%	14%

Proposal 158 – Sitka Sound herring percent age composition of model-estimated mature numbers of fish, 1980–2020.

Year	Age 3	Age 4	Age 5	Age 6	Age 7	Age 8+	Age 5+ sum	Exvessel value (\$US)
1980	6	70	21	2	0	2	24	\$2,122,340
1981	5	15	61	17	1	1	80	\$2,380,574
1982	8	11	14	51	14	2	80	\$3,198,079
1983	50	11	5	6	22	7	39	\$5,063,050
1984	14	65	5	2	2	11	21	\$3,731,200
1985	4	31	50	4	1	9	65	\$7,878,650
1986	24	9	23	33	2	7	66	\$7,407,923
1987	62	19	3	6	8	2	19	\$4,401,504
1988	5	78	9	1	2	4	16	\$4,251,300
1989	0	14	72	7	1	5	85	\$1,213,500
1990	0	2	16	70	7	6	98	\$7,950,360
1991	70	0	1	5	21	4	30	\$217,512
1992	1	86	0	0	2	10	13	\$1,368,840
1993	0	4	85	0	0	11	96	\$3,483,612
1994	13	0	4	74	0	9	87	\$3,630,354
1995	54	15	0	1	26	3	31	\$3,928,708
1996	18	64	6	0	1	11	18	\$14,349,728
1997	31	28	33	3	0	5	40	\$4,726,328
1998	30	42	13	12	1	2	28	\$1,669,545
1999	11	50	25	7	6	1	39	\$4,869,488
2000	26	21	32	14	4	4	53	\$2,777,101
2001	26	37	11	15	7	4	36	\$5,794,448
2002	18	44	21	5	7	5	38	\$4,444,206
2003	47	21	18	8	2	4	32	\$3,201,154
2004	7	67	11	9	4	3	26	\$5,162,064
2005	12	16	53	8	6	5	71	\$6,114,908
2006	18	25	11	34	5	7	57	\$2,631,288
2007	20	31	16	7	19	7	48	\$5,704,503
2008	21	35	19	8	3	14	44	\$8,919,320
2009	13	39	22	11	5	10	47	\$12,689,300
2010	12	28	29	15	7	9	60	\$12,145,663
2011	5	29	23	21	11	12	67	\$5,165,513
2012	3	13	28	20	18	19	84	\$8,336,160
2013	16	8	11	22	15	28	75	\$4,436,640
2014	4	35	7	8	16	31	61	\$3,052,260
2015	53	6	17	3	3	19	41	\$2,189,000
2016	2	76	3	8	1	10	21	\$2,458,250
2017	18	5	62	2	5	8	77	\$4,288,284
2018	19	35	3	34	1	7	46	\$1,003,618
2019	72	11	8	1	7	2	17	–
2020	0	88	5	3	0	4	12	–
Total exvessel value 1980–2020								\$188,356,274
Total fishery revenue retrospective loss under proposal, 1980–2020								\$11,473,680
Average annual fishery revenue retrospective loss under proposal, 1980–2021								\$1,912,280
Percent of fishery revenue retrospective loss, 1980–2020								6.1%

Proposal 159 - Total pounds harvested, number of harvesting households, and ANS for subsistence use of herring spawn on kelp and branches in Sitka Sound, 2002–2019.



Proposal 167 - Total Sitka Sound commercial sac roe herring harvest (including Section 13-A and 13-B) compared to Section 13-A harvest, 1999–2020.

Year	Total sac roe harvest (tons)	Section 13-A harvest (tons)	Percent of harvest from Section 13-A
1999	9,218	262	3%
2002	9,788	986	10%
2006	9,967	4,244	43%
2012	13,232	3,551	27%
2013 <sup>a</sup>	5,688	–	–
2016	9,769	829	8%
Average	9,610	1,648	15%

Proposal 167 - Sitka Sound sac roe fishery area (Sections 13-A/B) and Hoonah Sound spawn-on-kelp fishery area (Section 13-C) and historical spawn shoreline.

