

18. Assessment of the skate stock complex in the Bering Sea and Aleutian Islands

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Alaska skate harvest recommendations

Quantity	As estimated or <i>specified last year for:</i>		As estimated or <i>recommended this year for:</i>	
	2013	2014	2014	2015
M (natural mortality rate)	0.13	0.13	0.13	0.13
Tier	3a	3a	3a	3a
Projected total (age 0+) biomass (t)	650,483	630,086	603,520	579,785
Female spawning biomass (t)				
Projected	194,072	189,811	185,076	178,762
$B_{100\%}$	266,810	266,810	266,810	266,810
$B_{40\%}$	106,724	106,724	106,724	106,724
$B_{35\%}$	93,384	93,384	93,384	93,384
F_{OFL}	0.113	0.113	0.113	0.113
$maxF_{ABC}$	0.098	0.098	0.098	0.098
F_{ABC}	0.098	0.098	0.098	0.098
OFL (t)	36,315	34,596	32,381	30,278
Maximum ABC (t)	31,720	30,218	28,282	26,444
ABC (t)	31,720	30,218	28,282	26,444
Status	As determined <i>last year for:</i>		As determined <i>this year for:</i>	
	2011	2012	2012	2013
Overfishing	No	n/a	No	n/a
Overfished	n/a	No	n/a	No
Approaching overfished	n/a	No	n/a	No

other skate harvest recommendations				
Quantity	As estimated or <i>specified last year for:</i>		As estimated or <i>recommended this year for:</i>	
	2013	2014	2014	2015
<i>M</i> (natural mortality rate)	0.1	0.1	0.1	0.1
Tier	5	5	5	5
Biomass (t)	94,684	94,684	94,684	94,684
<i>F_{OFL}</i>	0.1	0.1	0.1	0.1
<i>maxF_{ABC}</i>	0.075	0.075	0.075	0.075
<i>F_{ABC}</i>	0.075	0.075	0.075	0.075
OFL (t)	9,468	9,468	9,468	9,468
Maximum ABC (t)	7,101	7,101	7,101	7,101
ABC (t)	7,101	7,101	7,101	7,101
Status	As determined <i>last year for:</i>		As determined <i>this year for:</i>	
	2011	2012	2012	2013
Overfishing	No	n/a	No	n/a

aggregate harvest recommendations for the BSAI complex				
Quantity	As estimated or <i>specified last year for:</i>		As estimated or <i>recommended this year for:</i>	
	2013	2014	2014	2015
OFL (t)	45,800	44,100	41,849	39,746
ABC (t)	38,800	37,300	35,383	33,545