

# GOM Cod and Haddock Catch



Stock	Fishing Year	Rec sub-ACL	Landings	Discards	Total Removals	% of sub-ACL Caught
GOM Cod	2010	2,673	1,507	na	1,507	56%
	2011	2,824	1,640	na	1,640	58%
	2012	2,215	635	1,009	1,644	74%
	2013	486	541	99	639	132%
	2014	486	468	155	623	128%
	2015	121	5	80	85	70%
	2016	157	90	212	302	192%
	2017	157				
GOM Haddock	2010	324	297	na	297	92%
	2011	308	239	na	239	77%
	2012	259	281	na	281	108%
	2013	74	232	0	232	313%
	2014	173	293	366	659	381%
	2015	372	238	144	382	103%
	2016	928	751	315	1,066	115%
	2017	1,160				

## Notes:

- 1) All weights in mt
- 2) na = B2 catch not included consistent with the assessment used as the basis for the ACLs.
- 3) FY 16 estimates are preliminary.

# Bioeconomic Modeling



- Convert to a monthly time-step
- Incorporate available MRIP data and 2017 biological assessment projections
- Evaluate how status quo measures affect mortality
- Evaluate how alternative measures affect mortality

# FY 2017 Mortality Projections



## FY 2017 Gulf of Maine Cod and Haddock Simulation Projections

Option	Haddock				Cod				Angler Trips (Median)	% Under Had ACL (out of 100 Simulations)	% Under Cod ACL (out of 100 Simulations)
	Had Limit	Had Size	Had Closed Season	Had Total Mortality mt (Median)	Cod Limit	Cod Size	Cod Closed Season	Cod Total Mortality mt (Median)			
0 (Status Quo)	15	17"	Mar-Apr 14	1,299	1	24"	May-Jul, Oct-Apr	292	173,259	0	0
1	15	17"	Mar-Apr 14	1,288	0		May-Apr	218	171,790	4	0
2	12	17"	Mar-Apr 14, Sep 17 - Oct 31	1,160	0		May-Apr	147	153,802	50	78
3	12	17"	Mar-Apr 14, Sep	1,137	0		May-Apr	149	153,410	70	78
4	15	17"	Mar-Apr 14, 2 weeks of May	1,118	0		May-Apr	153	154,106	73	61
5	10	17"	Mar-Apr 14, 1 week of May	1,149	0		May-Apr	157	153,204	68	51
6	10 FH 12 PR	17"	Mar-Apr 14 Mar-Apr 14, Sep 17 - Oct 31	1,159	0		May-Apr	153	154,567	51	55

FY 2017 rec sub-ACLs: haddock = 1,160 mt, cod = 157 mt