Groundfish Committee Report

NEFMC Groundfish Staff

NEFMC Meeting January 31, 2018

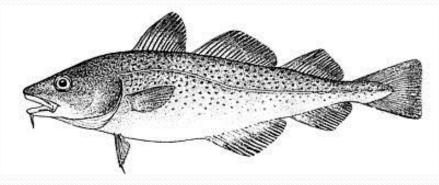


Recreational Measures for Gulf of Maine Cod and Haddock for Fishing Year 2018

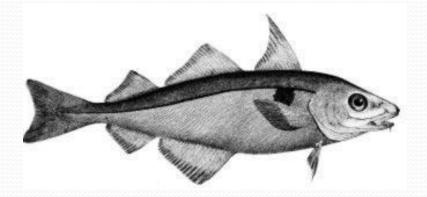
Proposed FY 2018 Recreational Sub-ACLs

If Framework Adjustment 57 ACLs are implemented:

220 mt for Gulf of Maine cod



3,358 mt for Gulf of Maine haddock



Bioeconomic Modeling

- Incorporates available MRIP data and 2018 biological assessment projections
- Incorporates new post-release haddock mortality rates
- Evaluates how status quo measures affect mortality in FY2018
- Evaluates how alternative measures affect mortality in FY2018

Gulf of Maine haddock post-release mortality estimates for the recreational fishery by season and size class (Mandelman *et al. 2017*)

Season	Waves	Size Class	Estimated Mortality
		Small (<50 cm)	0.321
Spring	1, 2, 3	Large (≥50 cm)	0.113
		Small (<50 cm)	0.742
Fall	4, 5, 6	Large (≥50 cm)	0.459

How accurate is the model for cod?

GOM Cod	ACL (mt)	Actual	Model
FY 2013	486	639	409 (36% lower)
FY 2014	486	623	422 (32% lower)
FY 2015	121	85	132 (55% higher)
FY 2016	157	286	132 (54% lower)
FY 2017	157	244*	147 (40% lower)
FY 2018	220 - payback		

^{*}Preliminary

How accurate is the model for haddock?

GOM Had	ACL (mt)	Actual	Model
FY 2013	74	232	57 (407% lower)
FY 2014	87	659	80 (824% lower)
FY 2015	372	382	323 (13% lower)
FY 2016	928	1,031	709 (32% lower)
FY 2017	1,160	740*	1,160 (56% higher)
FY 2018	3,358		

^{*}Preliminary

Fishing Year 2018 Mortality Projections

FY 2018 Gulf of Maine Cod and Haddock Simulation Projections

			Haddock			Cod				1
				Had			Cod		% Under	% Under
				Total			Total		Had ACL	Cod ACL
			Had	Mortality		Cod	Mortality	Angler	(out of	(out of
	Had	Had	Closed	mt	Cod	Closed	mt	Trips	100	100
Option	Limit	Size	Season	(Median)	Limit	Season	(Median)	(Median)	(Simulations)	(Simulations)
0 (Status Quo)	12	17"	Mar-Apr 14, Sep 17 - Oct 31	920	0	May-Apr	226	155,733	100	19
1 (Status Quo, no MA Cod Possession)	12	17"	Mar-Apr 14, Sep 17 - Oct 31	916	0	May-Apr	193	155,160	100	56
2 (Additional May Had Closure)	12	17"	Mar-Apr 14, May, Sep 17 - Oct 31	822	0	May-Apr	194	150,713	100	57

FY 2018 rec sub-ACLs: haddock = 3,358 mt, cod = 220 mt - payback

RAP and Committee recommendation

				Had			Cod		% Under	% Under
				Total			Total		Had ACL	Cod ACL
			Had	Mortality		Cod	Mortality	Angler	(out of	(out of
	Had		Closed	mt	Cod	Closed	mt	Trips	100	100
Option	Limit	Size	Season	(Median)	Limit	Season	(Median)	(Median)	(Simulations)	(Simulations)*
0		4 !!					•••		400	
(Status Quo)	12	17"	Mar-Apr 14, Sep 17 - Oct 31	920	0	May-Apr	226	155,733	100	19
1 (Status Quo, no MA	12	17"	Mar-Apr 14, Sep 17 - Oct 31	916	0	May-Apr	193	155,160	100	57
Cod Possession) 2 (Additional May Had	12	17"	Mar-Apr 14, May, Sep 17 - Oct 31	822	0	May-Apr	194	150,713	100	56
Closure)								100). 10		
3 (No MA Cod Possession, no Had Minimum Size)	12		Mar-Apr 14, Sep 17 - Oct 31	979	0	May-Apr	213	162,543	100	34
4 (Additional May Had Closure, no Had Minimum Size)	12		Mar-Apr 14, May, Sep 17 - Oct 31	864	0	May-Apr	203	157,731	100	45
5 (Additional May Had Closure, 16" Had Minimum Size)	12	16"	Mar-Apr 14, May, Sep 17 - Oct 31	835	0	May-Apr	198	153,441	100	51
6 (Additional May Had Closure, 15" Had Minimum Size)	12	15"	Mar-Apr 14, May, Sep 17 - Oct 31	854	0	May-Apr	200	157,203	100	50
7 (Split Measures by Mode)	10 FH 12 PR	17"	Mar-Apr 14, Sep 17 - Oct 31 Mar-Apr 14, May, Sep 17 - Oct 31	839	0	May-Apr	198	152,091	100	51
	FY 2018 rec sub-ACLs: haddock = 3,358 mt, cod = 220 mt - payback *Assumes a cod sub-ACL of 200 mt									

^{*}Assumes a cod sub-ACL of 200 mt

For Today

The Council will consider recommending recreational measures for Gulf of Maine cod and Gulf of Maine haddock for fishing year 2018.



Recreational Measures for Georges Bank Cod for Fishing Year 2018

FW57 - Section 4.3.1

Recreational Management Measures - Georges Bank Cod Management Measures for the Recreational Fishery

Option 1: No Action

Option 2: Temporary administrative measure to allow the Regional Administrator authority to adjust the recreational measures for Georges Bank cod (*Preferred Alternative*) *For FY2018 and FY2019 only*

Calculation of the catch target for the recreational fishery. Data source: Recreational catches in 2017 groundfish operational assessments, NEFSC.

		Recreational						
Catch (mt)	2012	2013	2014	2015	2016	Average 12-1		
Commercial landings	2,007	1,312	1,514	1,300	1,109			
Commercial discards	120	83	19	31	33			
Recreational landings	56	6	88	124	369	sum =	643	
Recreational discards	1	1	2	15	30	sum =	49	
Canadian landings	395	384	430	472	428			
Canadian discards	75	39	28	20	12		+	
Catch for Assessment	2,653	1,824	2,081	1,962	1,982		692	
						5-yr avg	138.4	

FW57 PDT Analysis suggests:

- 10 fish bag limit for all modes private, charter, and party
- Increase the minimum fish size from 22 in up to 24 in

For Today

The Council will possibly consider recommending recreational measures for Georges Bank cod.



Control Date

Background

The current "control date" is March 30, 2006 and may be used for establishing eligibility criteria for determining levels of future access to the charter/party fishery subject to Federal authority.

- Helps to distinguish from established participants from speculative entrants
- Additional qualification criteria may apply
- Weighted criteria may be used
- Does not commit the Council to take action
- Can be revised or rescinded
- Gives the public notice to locate and preserve records to verify activity



For Today

The Council will consider recommending a new control date for the charter/party fishery.



Amendment 23: Groundfish Monitoring

Amendment 23 Timeline

2018	
JAN 30-31	NEFMC – Receives progress report
TBD	Groundfish PDT meeting
TBD	Groundfish Advisory Panel meeting
TBD	Groundfish Committee meeting
APR 17-19	NEFMC – Approves range of alternatives
TBD	Groundfish PDT meeting
TBD	Groundfish Advisory Panel meeting
TBD	Groundfish Committee meeting
JUN 12-14	NEFMC – Receives progress report (or approves range of alternatives, if not in April)

A23 Alternatives Outline (Draft)

Introduction	 Purpose and need Background on Groundfish Sector Monitoring Program
<u>Alternatives</u>	
Monitoring Cover Levels *input from Sept Committee meeting	 Re-evaluate 30% CV precision standard Alternatives methodologies for determining total monitoring coverage levels Knowing total monitoring coverage level at a time certain
Improving monitoring of discards *input from Sept Committee meeting and Nov AP meeting	Electronic monitoring (EM) – in place of ASM, audit- based, maximum retention-based
Improving monitoring of landings *input from Sept Committee meeting and Nov AP meeting	 Dockside monitoring program EM for landings verification (maximum retention)
Streamlining Sector Reporting	Weekly sector reportingOther sector reporting requirements
Funding for Groundfish Monitoring *input from Sept Committee meeting	Funding source ideas

Optimized Retention Discussion

GAP Motion (from Nov 28, 2017)

AP Motion #16:

To include an Optimized Retention approach for EM, where EM runs on 100% of trips and a subset of hauls or trips is reviewed to verify vessel trip reported (VTR)-reported discards. The optimized retention model would eliminate minimum fish size restrictions, but fishermen could choose which fish to keep based on their marketability, and/or the difficulty handling and sorting on deck—modeled upon the West Coast EM program.

GF Committee Motion (from Nov 29, 2017)

Committee Motion #15:

To explore an Optimized Retention approach for EM, where EM runs on 100% of trips and a subset of hauls or trips is reviewed to verify vessel trip reported (VTR)-reported discards. The optimized retention model would eliminate minimum fish size restrictions, but fishermen could choose which fish to keep based on their marketability, and/or the difficulty handling and sorting on deck—modeled upon the West Coast EM program.

Monitoring Workshop/Working Group

2018 Council Priorities:

To amend the priorities for Groundfish for 2018 to include all regulatory requirements and Amendment 23 and <u>by clarifying that work on Amendment 23 includes utilization of workshops/expanded PDT meetings for development of technical elements i.e. EM, DSM etc. and a working group to discuss the topic of how fishery dependent data can be used to inform stock abundance.</u>

Discussed at Executive Committee meeting Jan 26, 2018 Will receive summary from ExCom today

Fishery Dependent Data Workgroup

Tom Nies

New England Fishery Management Council

January 31, 2018



Background

- September 2017: to request that the Executive Committee discuss convening a working group to identify and/or improve methods for using monitoring data in stock assessments to estimate stock biomass.
- December 2017: to amend the priorities for Groundfish for 2018 to include ... a working group to discuss the topic of how fishery dependent data can be used to inform stock abundance.



Tasking

- Explain how assessments use data
- Summarize theoretical utility and limitations of CPUE as an index of abundance
- Identify fishery factors and data needed to create a reliable CPUE
- Compare desired factors with existing conditions
- Identify next steps and provide recommendations or other FDD approaches that could be explored



Logistics

- 10 members:
 - NEFSC Scientists: 2
 - NEFSC nominated scientists: 2
 - Council nominated scientists: 2
 - Industry: 2
 - NMFS and Council staff: 2
- Consensus report, reviewed by SSC
- Preliminary report by June 2018



Extra Slides

Table 1. Gulf of Maine Recreational Catch Estimates¹

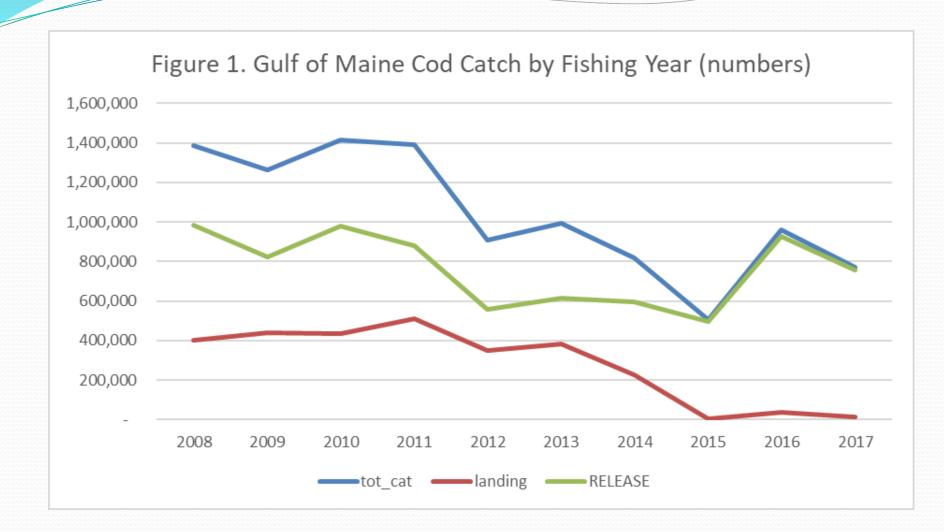
	FY2016	(PSE)	FY2017 ²	(PSE)
Cod/Haddock Angler Trips ³	162,596	(12.1)	150,799	(13.1)
Cod Catch (numbers, a+b1+b2)	960,353	(15.7)	768,134	(22.9)
Cod Kept/Released Dead (numbers, a+b1)	34,995	(23.6)	13,513	(29.1)
Cod Released Alive (numbers, b2)	925,357	(15.8)	754,621	(23.2)
Cod Removals (numbers, a+b1+(b2*0.15))	173,799		126,706	
Cod Removals (weight ⁴ , mt)	286		244	
Cod Avg. Catch Per Trip (numbers)	5.9		5.1	
Cod Avg. Weight of Caught Fish (lbs)	3.2		4.1	
Haddock Catch (numbers, a+b1+b2)	1,733,327	(20.2)	1,281,109	(19.7)
Haddock Kept/Released Dead (numbers, a+b1)	521,621	(23.6)	443,537	(22.2)
Haddock Released Alive (numbers, b2)	1,211,706	(20.7)	837,572	(20.9)
Haddock Removals (numbers, a+b1+(b2*season/size release mortality))	1,190,253		899,309	
Haddock Removals (weight ⁴ , mt)	1,031		740	
Haddock Avg. Catch Per Trip (numbers)	10.7		8.5	
Haddock Avg. Weight of Caught Fish (lbs)	1.7		1.3	

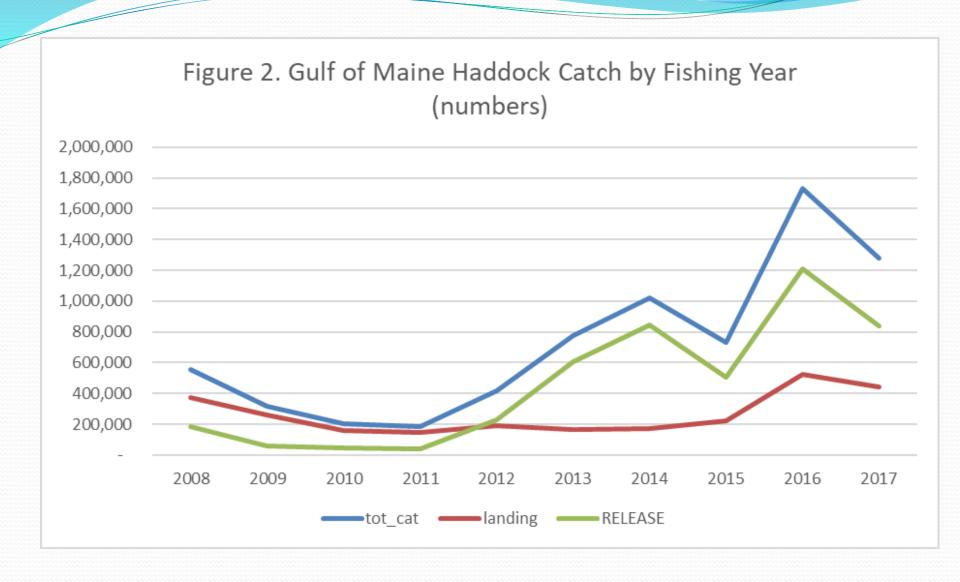
¹Source: Available MRIP data as of Dec. 26, 2017

²Wave 6, 2016 and wave 2, 2017 used as proxies for those waves in FY2017.

³Angler trips = number of trips that targeted and/or caught cod or haddock

⁴All weights are based on round weights calculated from MRIP length frequencies and length to weight equations used in the assessments.





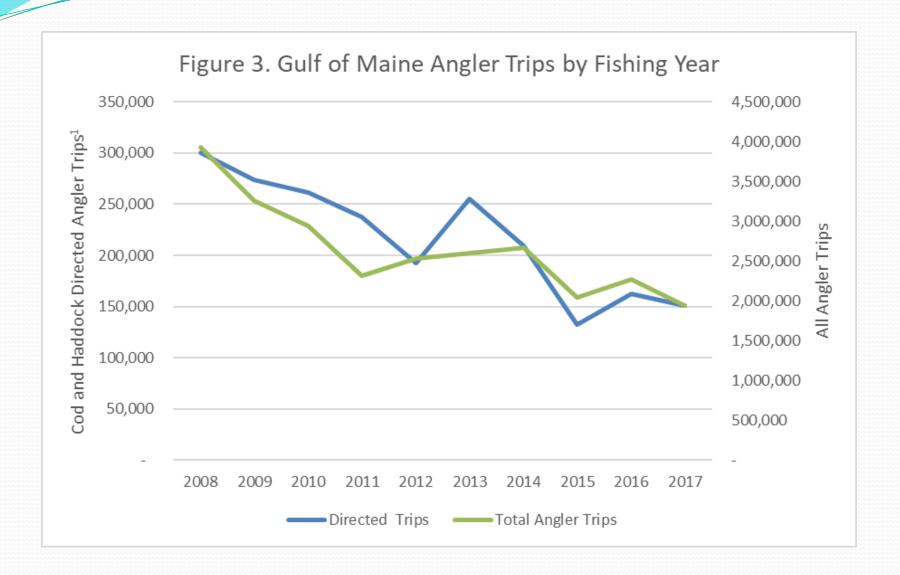


Table 1. George's Bank Cod Recreational Catch Estimates¹

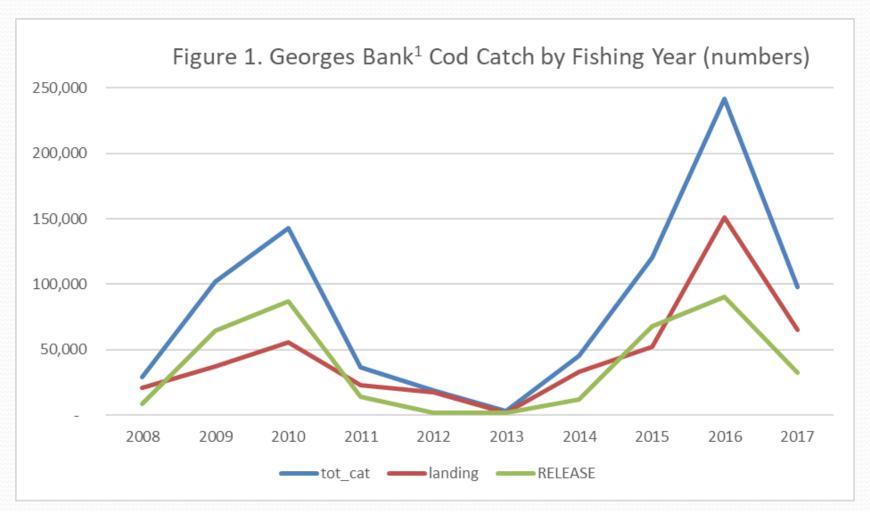
	FY2016	(PSE)	FY2017 ²	(PSE)
Cod Angler Trips ³	92,319	(21.4)	61,841	(25.7)
Cod Catch (numbers, a+b1+b2)	241,720	(23.9)	97,871	(31.4)
Cod Kept/Released Dead (numbers, a+b1)	151,067	(25.1)	65,407	(32.1)
Cod Released Alive (numbers, b2)	90,653	(26.7)	32,464	(36.4)
Cod Removals (numbers, a+b1+(b2*0.30))	178,263		75,146	
Cod Removals (weight ⁴ , mt)	451		198	
Cod Avg. Catch Per Trip (numbers)	2.6		1.6	
Cod Avg. Weight of Caught Fish (lbs)	4.9		5.2	

¹Source: Available MRIP data as of Dec. 22, 2017

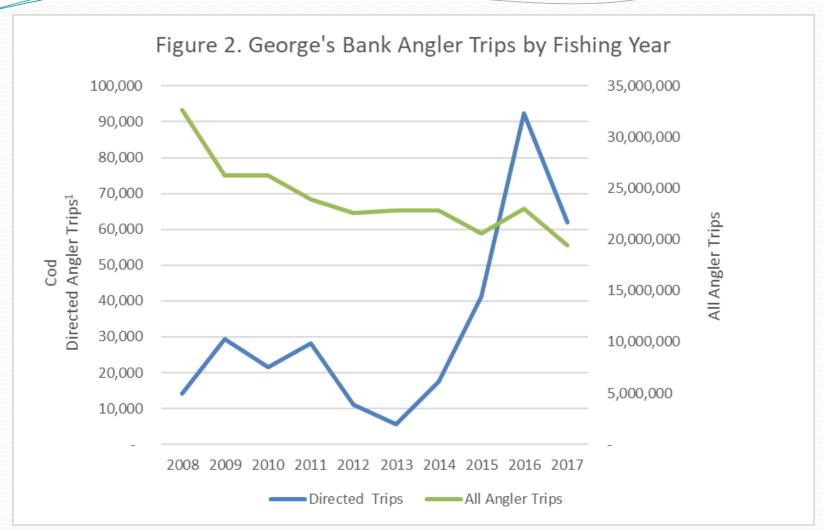
²Wave 6, 2016 and wave 2, 2017 used as proxies for those waves in FY2017.

³Angler trips = number of trips that targeted and/or caught cod

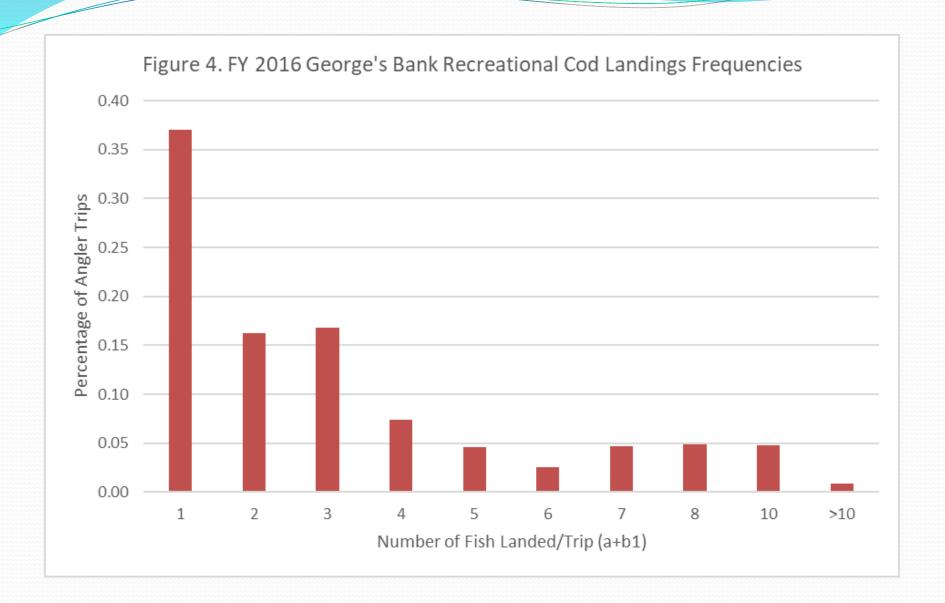
⁴All weights are based on round weights calculated from MRIP length frequencies and length to weight equations used in the assessments.

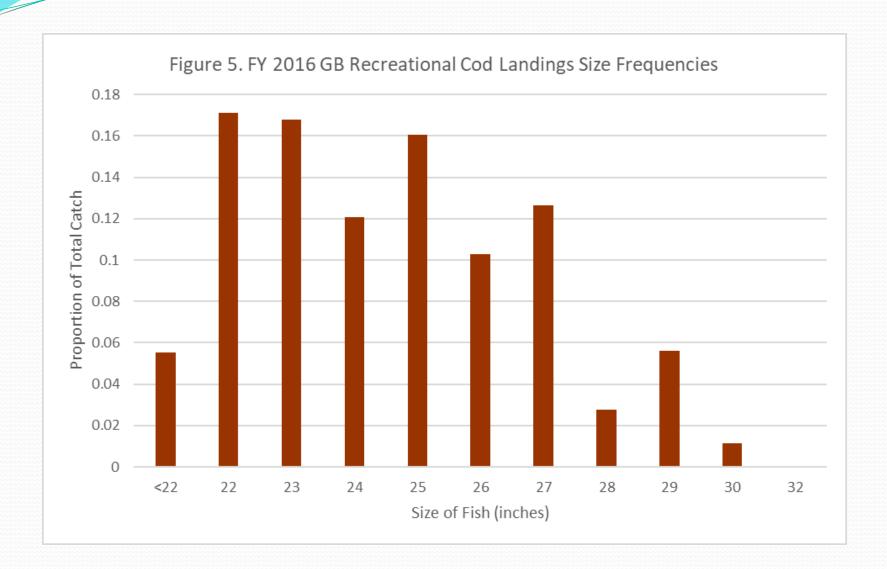


¹Includes catch from Massachusetts anglers (south of Cape Cod) through North Carolina



¹Angler trips that targeted and/or caught cod.





FY16 & FY17 to Date Active Party/Charter Permits

FISHING_YEAR FISHERY_GROUP	PERMIT_TYPE	VESSELS	TOTAL_TRIPS	GROUNDFISH_TRIPS
2016 PCHARTER	Α	25	1,486	691
2016 PCHARTER	C or HA	11	264	115
2016 PCHARTER	D	10	569	113
2016 PCHARTER	I	332	20,441	3,655
2016 PCHARTER	TOTAL	378	22,760	4,574
2017 PCHARTER	Α	26	1,282	471
2017 PCHARTER	C or HA	11	251	52
2017 PCHARTER	D	8	425	71
2017 PCHARTER	I	288	16,641	2,289
2017 PCHARTER	TOTAL	333	18,599	2,883

⁻ held permit at any time during fishing year

⁻ total trips - landed any species

⁻ groundfish trips - landed groundfish

FY16 & FY17 All Groundfish Party/Charter Permits

AP_YEAR	FISHERY_PLAN	FISHERY_VESSELS	
20	16 MUL	Α	745
20	16 MUL	С	14
20	16 MUL	D	47
20	16 MUL	Е	48
20	16 MUL	F	15
20	16 MUL	НА	104
20	16 MUL	1	661
20	16 MUL	TOTAL	1,631
20	17 MUL	Α	705
20	17 MUL	С	12
20	17 MUL	D	42
20	17 MUL	E	49
20	17 MUL	F	12
20	17 MUL	НА	103
20	17 MUL	1	637
20	17 MUL	TOTAL	1,557

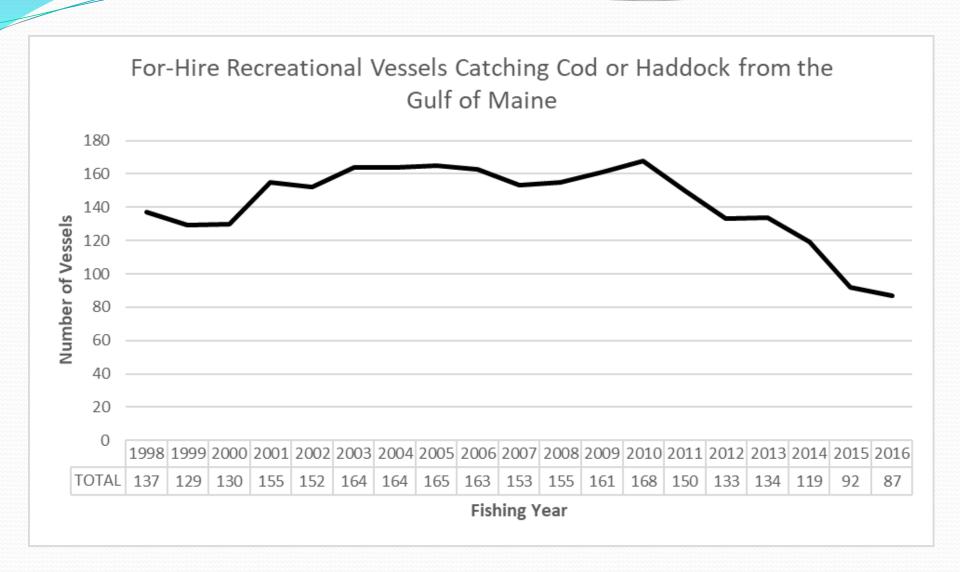
⁻ held permit at any time during fishing year

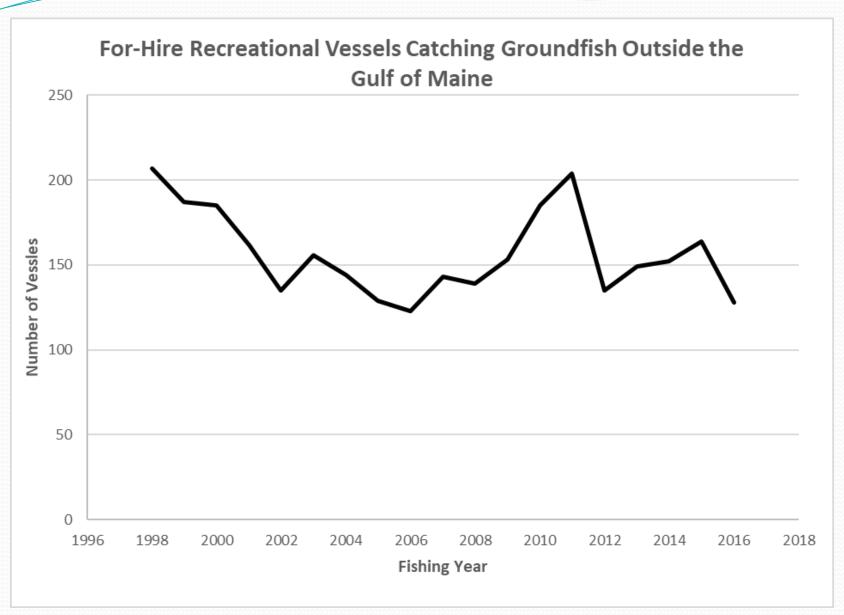
Groundfish Party/Charter Permits on March 30, 2006

AP_YEAR FISHERY_PLAN FISHERY_CAT VESSELS

<u>, , , , , , , , , , , , , , , , , , , </u>		<u> </u>
2005 MUL	Α	1,123
2005 MUL	С	8
2005 MUL	D	94
2005 MUL	E	46
2005 MUL	F	44
2005 MUL	НА	160
2005 MUL		696
2005 Total		2,168

49 fishery category I permits were issued during FY17 to date to vessels which did not hold any multispecies permit during FY16





List of 2018 Priorities

Council set 2018 priorities in December 2017

Legal/Regulatory Requirement- Annual

- Set ABCs/ACLs for US/CA stocks
- Revise rebuilding plans as needed (ocean pout, GB winter flounder, witch flounder, GOM/GB windowpane flounder, and SNE/MA yellowtail flounder)
- Address Status Determination Criteria issue when analytic assessments fail
- Additional guidance on sector overages
- TRAC/TMGC

List of 2018 Priorities

Annual

- Address allocation issues if raised by new MRIP data
- Get input on different ways to manage recreational fishery in light of highly variable catch estimates: for example, consideration of catch error estimates under MRIP, and errors in bioeconomic model used to determine measures
- Specify allocation review triggers
- Sector five-year review

Multi-Year

- ASM action/Amendment 23 (including work groups/workshops necessary and working group on how fishery dependent data can be used to inform stock abundance).
- Scope limited entry in groundfish party/charter fishery
- Cod Stock Structure Working Group