

Framework 29

Preliminary Information on SAMS run outputs for specifications

*This document may be updated again as more information becomes available.
(10/24/17 version 2 – 2pm)*

PDT/AP/Committee: Review the preliminary SAMS run outputs for FW29. The outputs shown in Table 1 reflect areas that are currently available to the fishery (i.e. do not include access to CAI or NLS-West). The anticipated outcomes from the specification discussion area:

1. Provide input on open area fishing configurations for FW29, particularly areas that could become open bottom (ex: NLS-ext and Delmarva).
2. Provide input on F rates for setting DAS fishing (ex: $F=0.48$, $F=0.4$, something lower?). Including or excluding NLS-S and DMV will change DAS associated with different F rates.
3. For areas currently available to the fishery (i.e. NOT areas that may open with OHA2), provide tasking to the PDT of additional SAMS runs to be included in FW29, if needed. In doing so, the AP/Committee should identify the number of access area trips, where they would be taken, and the configuration of open areas.
4. For areas that may open to the fishery through OHA2 (i.e. Closed Area I, Nantucket Lightship West), provide tasking to the PDT of additional SAMS runs to be included in FW29, if needed. In doing so, the AP/Committee should identify the number of access area trips, where they would be taken, and the configuration of open areas. This should be done after the recommendations on available areas are made (#3).
 - a. There are three potential OHA2 outcomes that could be addressed in FW29:
 - i. Only NLS-West opens
 - ii. Only CA-I “sliver” opens
 - iii. Both NLS-West and CA-I open
 - b. The AP and Committee should identify potential SAMS runs for each of these scenarios.
5. Provide input on potential access area configurations in the western part of the Nantucket Lightship to be included in FW29.
6. **NEW:** Provide input on allocating CAI carryover pounds through this action.
7. **NEW:** Provide input on where RSA compensation fishing may occur.

Framework 29 - SAMS Runs Outputs

Table 1 provides an overview of FW29 SAMS runs outputs. The runs are described in the table below.

Run	Description
FW28 Preferred Current FY 2017 Specifications	From the FW28 run – applying to 2017 conditions This is added for comparative purposes. Four Access Area Trips at 18,000 DAS: F=0.44, FT DAS = 30.41 1 trip – Closed Area II (CAIIS) 1 trip – NLS (NLS-N, NLS-S, NLS-ext) 1 trip – ET-Flex (ET-Flex) 1 trip – MAAA (HC, ET-Open, DMV)
No Action FW 28 Default Measures	One Access Area Trip in MAAA at 18,000 DAS set at 75% of FW28 allocation (21.75 DAS)
SQ (Status Quo)	Applying the 2017 specs in FY 2018. This is done for comparative purposes. The output is different than the FW28 Pref. because the run projects to 2018.
BASE F=0.48	Five Access Area Trips at 18,000 DAS: F=0.48 1 trip – Closed Area II (CAIIS and CAII-ext) 1 trip – NLS (NLS-N, NLS-S) 3 trip – MAAA (HC, ET-Open, ET-Flex) DMV and NLS-ext open areas and are fished
BASE F=0.4	Five Access Area Trips at 18,000 DAS: F=0.4 1 trip – Closed Area II (CAIIS and CAII-ext) 1 trip – NLS (NLS-N, NLS-S) 3 trip – MAAA (HC, ET-Open, ET-Flex) DMV and NLS-ext open areas and are fished
BASE=0.36	Five Access Area Trips at 18,000 DAS: F=0.4 1 trip – Closed Area II (CAIIS and CAII-ext) 1 trip – NLS (NLS-N, NLS-S) 3 trip – MAAA (HC, ET-Open, ET-Flex) DMV is open, but assume F=0 NLS-ext open areas and are fished
PDT 1	Five Access Area Trips at 18,000 DAS: F=0.4 1 trip – Closed Area II (CAIIS and CAII-ext) 1 trip – NLS (NLS-S and NLS-ext) 3 trip – MAAA (HC, ET-Open, ET-Flex) DMV is open, but assume F=0
PDT 2	Same as PDT 1, but NLS trip comes exclusively out of NLS-S shallow area, and NLS-ext is open area.
Note: DAS calculations in Table 1 reflect reduction for southern port transit declaration.	

Table 1 – FW29 SAMS runs outputs. FW28 preferred outputs included for comparison. Set-asides accounted for in LAGC IFQ only calculation (see row N).

	BASE Run: 5 total AA trips at 18,000 lbs. 1 trip in CAII, 1 trip in NLS, 3 trips in MAAA. NLS-ext and DMV open areas.								
	1	2	3	4	5	6	7	8	9
A	Run	FW28 Pref.	No Action	SQ	BASE .48	BASE .4	BASE .36	PDT 1	PDT 2
B	Description	Current FY2017 Specs 1 CAII 1 NLS 1 ET-Flex 1 MAAA 13 month FY	FW28 Default Measures	FW 28 Measures 1 CAII 1 NLS 1 ET Flex 1 MAAA	1 CAII 1 NLS 3 MAAA NLS-ext: Open DMV: Open CAIIext: CAII AA	1 CAII 1 NLS 3 MAAA NLS-ext: Open DMV: Open CAIIext: CAII AA	1 CAII 1 NLS 3 MAAA NLS-ext: Open DMV: Open CAIIext: CAII AA	BASE, but NLS trip from NLS-S and NLS- ext, North closed	BASE, but entire NLS trips comes from NLS-S shallow, NLS- ext open, NLS-N closed
C	Total Landings	47.5 mil.	24.6 mil.	43.9 mil.	60 mil.	56.3 mil.	52.1 mil.	48.2 mil.	54.5 mil.
D	FT DAS	30.41	21.75	26	40	34	29	28	31
E	Open Area F	F=0.44	F=0.39	F=0.44	F=0.48	F=0.4	F=0.36	F=0.4	F=0.4
F	Avg. Open LPUE	2,227	2,221	2,182	2,296	2,372	2,418	2,365	2,378
G	Open Landings	23.2 mil.	18.5 mil.	20.6 mil.	33 mil.	29.2 mil.	25 mil.	23.9 mil.	26.9 mil.
H	Overall F	F=0.11	F=0.03	F=0.08	F=0.14	F=0.14	F=0.13	F=0.12	F=0.16
I	AA Trips	4	1	4	5	5	5	5	5
J	Trip Limit	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000
K	FT AA Land (I*J)	72,000	18,000	72,000	90,000	90,000	90,000	90,000	90,000
L	FT DAS Land (D*F)	67,790	48,307	56,732	91,840	80,648	70,122	66,220	73,718
M	Avg. FT projected Land (L+K)	139,790	66,307	128,732	181,840	170,648	160,122	156,220	163,718
N	LAGC IFQ only (5%) (mil lbs)	~2.2 mil.	1.12	2.08	2.89	2.70	2.49	2.30	2.61
O									
P	Open Area Considerations								
Q	CAII-ext	Closed	Closed	Closed	CAII-AA	CAII-AA	CAII-AA	CAII-AA	CAII-AA
R	DMV	MAAA	MAAA	MAAA	Open, fished	Open, fished	Open, F=0	Open, F=0	Open, F=0
S	NLS-ext	NLS	NLS	NLS	Open, fished	Open, fished	Open, fished	NLS AA	Open, fished

Table 2 - Potential OFL and ABC values for FY 2018 and FY 2019 (default) in FW29

	FY2018		FY2019	
	mt	lbs	mt	lbs
OFL	72,055	158,854,083	69,633	153,514,487
ABC/ACL (discards removed)	45,950	101,302,409	45,805	100,982,739
Incidental Catch	23	50,000	23	50,000
RSA	567	1,250,000	567	1,250,021
Observer set-aside	460	1,014,126	458	1,009,717
ACL for fishery	44,900	98,987,556	44,757	98,672,295
Limited Access ACL	42431	93,543,240	42295	93,245,318
Limited Access ACT				
LAGC Total ACL	2470	5,444,316	2462	5,426,976
LAGC IFQ ACL	2245	4,949,378	2238	4,933,615
LA w/ LAGC IFQ ACL (0.5% of ACL)	225	494,938	224	493,361

Table 3 - Limited Access fishery performance through October 19, 2017. LA is at 92.42% of Annual Projected Landings as of Oct. 19, 2017.

	OPEN	CLOSED AREA II	NANTUCKET LIGHTSHIP	ELEPHANT TRUNK FLEX	MID- ATLANTIC	MONTHLY TOTAL	CUMULATIVE TOTAL	% OF SUB- ACL (95,166,945 lb)	% OF SUB- ACT (85,149,139 lb)
March	2,391,924	0	187,553	229,473	743,107	3,552,057	3,552,057	3.73%	4.17%
April	833,808	110,795	1,224,929	1,832,383	2,012,805	6,014,720	9,566,777	10.05%	11.24%
May	3,112,487	708,703	846,687	1,011,591	1,388,231	7,067,699	16,634,476	17.48%	19.54%
June	3,201,233	1,744,284	433,965	474,062	1,021,548	6,875,092	23,509,568	24.7%	27.61%
July	3,338,320	1,532,304	402,695	0	657,428	5,930,747	29,440,315	30.94%	34.58%
August	4,097,392	648,656	640,458	0	571,551	5,958,057	35,398,372	37.2%	41.57%
September	1,888,419	0	289,246	0	322,903	2,500,568	37,898,940	39.82%	44.51%
October	869,594	0	237,646	69,964	427,633	1,604,837	39,503,777	41.51%	46.39%
TOTAL	19,733,177	4,744,742	4,263,179	3,617,473	7,145,206	39,503,777			

Table 4 - Limited Access General Category IFQ sub-ACL and fishery performance through October 19, 2017

Limited Access General Category sub-ACL

	OPEN	NANTUCKET LIGHTSHIP	ELEPHANT TRUNK FLEX	MID- ATLANTIC	MONTHLY TOTAL	CUMULATIVE TOTAL	% OF SUB- ACL (2,261,943 lb)	% OF ACL + carryover (2,779,227 lb)
March	92,089	40,082	32,654	567	165,392	165,392	7.31%	5.95%
April	239,560	224,050	192,690	9,954	666,254	831,646	36.77%	29.92%
May	189,746	248,620	102,456	1,115	541,937	1,373,583	60.73%	49.42%
June	232,461	0	47,424	5,388	285,273	1,658,856	73.34%	59.69%
July	215,489	0	0	4,887	220,376	1,879,232	83.08%	67.62%
August	244,837	0	0	7,073	251,910	2,131,142	94.22%	76.68%
September	122,173	0	0	599	122,772	2,253,914	99.65%	81.1%
October	63,325	0	0	1,738	65,063	2,318,977	102.52%	83.44%
TOTAL	1,399,680	512,752	375,224	31,321	2,318,977			

Table 5 - Limited Access with Limited Access General Category IFQ sub-ACL and fishery performance through October 19, 2017

Limited Access with Limited Access General Category sub-ACL

	OPEN	NANTUCKET LIGHTSHIP	ELEPHANT TRUNK FLEX	MID- ATLANTIC	MONTHLY TOTAL	CUMULATIVE TOTAL	% OF SUB- ACL (227,076 lb)	% OF ACL + carryover (268,490 lb)
March	9,722	0	3,018	0	12,740	12,740	5.61%	4.75%
April	26,299	2,969	19,862	0	49,130	61,870	27.25%	23.04%
May	4,098	1,744	0	0	5,842	67,712	29.82%	25.22%
June	7,649	0	0	0	7,649	75,361	33.19%	28.07%
July	13,053	0	0	0	13,053	88,414	38.94%	32.93%
August	26,374	0	0	0	26,374	114,788	50.55%	42.75%
September	33,279	0	0	1,560	34,839	149,627	65.89%	55.73%
October	20,386	0	0	579	20,965	170,592	75.13%	63.54%
TOTAL	140,860	4,713	22,880	2,139	170,592			

Table 6 - Potential combinations of SAMS areas and corresponding exploitable biomass at $F=0.38$. Data from exploitable biomass presented at Sept. 25 PDT meeting.

A full trip is around 2,700 mt		
		ACL18
Nantucket Lightship	ExBms18	$F=0.38$
North only	4735	1320
North + south shallow	11700	3493
North + all south	34751	9783
North + all south + ext	42122	11635
South shallow + ext	14336	4025
South all + ext	37387	10315
West - EFH	23114	8449
Closed Area I		
CAI access only	1044	267
CAI north only	9016	2664
CAI north + access	10060	2931
Closed Area II		
CAII access only	3344	1143
CAII access + ext	7578	2517

Table 7 - Fishery Performance FY 2011 - FY 2015

		Allocated		% of Total Allocated	Actual		% Difference (allocated vs actual)	% of Total Actual
		mt	lb		mt	lb		
2011	OFL	32,387	71,401,113					81.88%
	ABC/ACL	27,269	60,117,854					97.24%
	Total Projected Landings	23,723	52,300,000		26,518	58,461,465	112%	
	incidental	23	50,000	0.10%	18	38,700	77%	0.07%
	RSA	567	1,250,000	2.39%	553	1,218,781	98%	2.08%
	OBS	273	601,170	1.15%	104	228,370	38%	0.39%
	IFQ	1,452	3,201,880	6.12%	1,382	3,046,245	95%	5.21%
	LA ACT	21,431	47,247,267	90.34%	24,462	53,929,369	114%	92.25%
	LA ACL	24,954	55,014,153		24,462	53,929,369		
2012	OFL	34,382	75,799,335					75.33%
	ABC/ACL	28,961	63,848,076					89.43%
	Total Projected Landings	25,945	57,200,000		25,900	57,098,684	100%	
	incidental	23	50,000	0.09%	28	61,869	124%	0.11%
	RSA	567	1,250,000	2.19%	529	1,167,316	93%	2.04%
	OBS	290	638,470	1.12%	120	263,700	41%	0.46%
	IFQ	1,544	3,405,000	5.95%	1,511	3,331,284	98%	5.83%
	LA ACT	23,546	51,910,044	90.75%	23,711	52,274,515	101%	91.55%
	LA ACL	26,537	58,503,960					
2013	OFL	31,555	69,566,867					57.22%
	ABC/ACL	21,004	46,305,894					85.97%
	Total Projected Landings	17,335	38,216,741		18,056	39,807,589	104%	
	incidental	23	50,000	0.13%	21	47,337	95%	0.12%
	RSA	567	1,250,000	3.27%	553	1,218,204	97%	3.06%
	OBS	210	463,059	1.21%	174	384,545	83%	0.97%
	IFQ	1,111	2,449,856	6.41%	1,095	2,414,256	99%	6.06%
	LA ACT	15,324	33,783,637	88.40%	16,213	35,743,247	106%	89.79%
	LA ACL	19,093	42,092,979		16,213	35,743,247		
2014	OFL	30,419	67,062,415		0			47.75%
	ABC/ACL	20,782	45,816,467		0			69.89%
	Total Projected Landings	17,327	38,463,656		14,524	32,020,980	83%	
	incidental	23	50,000	0.13%	19	42,107	84%	0.13%
	RSA	567	1,250,000	3.27%	433	954,011	76%	2.98%
	OBS	208	458,562	1.20%	177	390,579	85%	1.22%
	IFQ	1,099	2,423,145	6.34%	948	2,089,589	86%	6.53%
	LA ACT	15,567	34,319,360	89.84%	12,948	28,544,694	83%	89.14%
	LA ACL	18,885	41,634,305		12,948	28,544,694		
2015	OFL	38,061	83,910,142			37,206,977		
	ABC/ACL	25,352	55,891,593			36,974,195		
	Total Projected Landings	21,500	47,400,000					
	incidental	23	50,000	0.11%		29,395		
	RSA	567	1,250,021	2.64%		1,223,918		
	OBS	254	559,974	1.18%	196	432,679	77%	
	IFQ	1,348	2,971,831	6.27%	1,161	2,559,595	86%	
	LA ACT	19,331	42,617,560	89.91%	14,317	31,564,479	74%	
	LA ACL	23,161	51,061,265					
2016	OFL	68,418	150,835,870					
	ABC/ACL	37,852	83,449,375					
	Total Projected Landings	21,288	46,932,006					
	incidental	23	50,000	0.11%				
	RSA	567	1,250,000	2.66%				
	OBS	379	835,552	1.78%				
	IFQ	2,029	4,473,180	9.53%				
	LA ACT	18,290	40,322,555	85.92%				
	LA ACL	34,855	76,842,135					

Table 8 - FY2016 Scallop Year End Report

Row	Allocations	Allocated Landings (lbs)	Actual Landings (lbs)	Difference (lbs; Allocated minus Landings)	% caught	Notes
1	Overfishing Limit (OFL)	150,835,870	42,673,763	108,162,107	28%	Row 2+Row 3 + 160,000 lbs for state waters landings
2	Northern Gulf of Maine TAC	67,454	90,586	(23,132)	134%	Northern Gulf of Maine declared trips (Table 4 row 3)
3	Acceptable Biological Catch (ABC), ACL	83,449,375	42,423,177	41,026,198	51%	Row 4+5+6+7
4	Incidental Target Total Allowable Catch (TAC)	50,000	74,341	(24,341)	149%	LAGC Category C permit landings (Table 6 Row 3)
5	Research Set-Aside (RSA) TAC	1,250,000	1,168,536	81,464	93%	Landings on trips with RSA VMS declaration
6	Observer Set-Aside (OBS) TAC	835,552	676,622	158,930	81%	Table 2 total (Row 4)
7	Scallop Fishery ACL	81,315,300	40,503,679	40,811,621	50%	Rows 8+9+10+11
8	Limited Access sub-ACL (94.5% of ACL)	76,842,121	36,821,068	40,021,053	48%	LA total - OSA for LA (Table 2 row 1+3)
9	LAGC IFQ sub-ACL/ACT (5% of ACL)	4,067,529	3,135,800	931,729	77%	Allocation + 2015 carryover - landings
9a	Carryover Total for LAGC IFQ Fleet (FY 2012 to FY 2013)	NA	(356,536)			Sum of all IFQ Only vessels' FY 2015 carryover lbs (Table 6 row 1)
10	Limited Access Vessels with IFQ sub-ACL/ACT (0.5% of ACL)	405,650	347,889	57,761	86%	Allocation + 2015 carryover - landings
10a	Carryover Total for LAGC IFQ/LA Fleet (IFQ lb only)	NA	(31,164)			Sum of all IFQ/LA vessels' FY 2015 IFQ carryover lbs (Table 6 row 2)
11	Unattributed catch	NA	198,922			Table 5 total (Row 4)
12	State Waters Landings	160,000	766,566	(606,566)	479%	Table 3 total (Row 4)

Table 9 - Overview of Scallop Specifications from 1999 - 2016.

		FT allocations											
Year	Action	DAS	AA trips	Year	CA1	CAII	NLS	VB	HC	ETA	DMV	Possession	
1999	FW11	120	3	1999	Closed	3 trips: byc clo	Closed	Closed	Closed	N/A	N/A	10,000	
2000	FW12	120	6	2000	2 trips	3 trips	1 trip	Closed	Closed	N/A	N/A	10,000	
2001	FW14	120	3 (MA)	2001	Closed	Closed	Closed		3 trips	N/A	N/A	17,000	
2002	FW14	120	3 (MA)	2002	Closed	Closed	Closed		3 trips	N/A	N/A	18,000	
2003	FW15	120	3 (MA)	2003	Closed	Closed	Closed		3 trips	N/A	N/A	21,000	
2004	FW16 - GB AA allocations; A10 and	42	7 (4 MA)	2004	Closed	2 trips	1 trip		4 trips	Closed	N/A	18,000	
2005	FW16	40	5 (3 MA)	2005	1 trip	1 trip	Closed		3 trips	Closed	N/A	18,000	
2006	FW18	52	5 + HC carryover (F18 also allowed vessels to exchange 2006 CA2 and NLS trips for ETA 2007 trips)	2006	Closed	3 trips: byc clo	2 trips: bycatch closure		open for 2005 carryover trips	Closed	N/A	18,000	
2007	FW18/FW20	51	5 + HC carryover (F18 also allowed vessels to exchange 2006 CA2 and NLS trips for ETA 2007 trips)	2007	1 trip	Closed	1 trip		open for 2005 carryover trips	3 trips	Closed (Jan 1, 2007)	18,000	
2008	FW19	35	5 (4 MA)	2008	Closed	Closed	1 trip: bycatch closure		Closed	4 trips	Closed	18,000	
2009	FW19	42	5 (4 MA)	2009	Closed	1 trip: bycatch closure	Closed		Closed	3 trips	1 trip	18,000	
2010	FW21	38	4 (3 MA)	2010	Closed	Closed	1 trip		Closed	2 trips	1 trip	18,000	
2011	FW22	32	4 (2 MA)	2011	1.5 trips (all 313 vessels get 1 trip, 156 vessels get additional trip)	0.5 trips (157 vessels)	Closed (NLS emergency closure by Mar 1, FW22 cont.)		1 trip (313 vesels)	converted to open area	1 trip	18,000	
2012	FW22	34	4	2012	1 trip after emergency action May 2012 (157 vessels get initial trip per FW22 and 156 get CA1 trip	1 trip (313 vesels)	0.5 trips (157 vessels)		1.5 trips (all 313 vessels get 1 trip, 156 vessels get	Closed (Dec 12, 2012, emergenc	Closed (May 2012 EmAc closed DMV and reallocated trips	18,000	
2013	FW24	33	2	2013	118 trips (FW25 later allows unused trips to carryover to future year)	182 trips	116 trips		210 trips	Closed	Closed	13,000	
2014	FW25	31	2	2014	Closed	197 trips	116 trips		Closed	Closed	313 trips (with pot. to opt for 5 DAS)	12,000	
2015	FW26	30.86	3	2015	Closed	Closed	Closed		MAAA Open - 51,000 lbs, 17,000lb trips limit (ETC in place)				
2016	FW27	34.55	3	2016	Closed	Closed	LAGC IFQ Access - 485 Trips		MAAA Open - 51,000 lbs, 17,000lb trips limit (ETC in place)			17,000	