1999

Appendix IV

The Gulf of Maine Cod Fishery

Number of vessels and landings by selected Ports, States, Gear Sector, and Vessel Sizes

1999

Appendix V

Expected change in DAS usage for 1999 DAS allocation Options (Analysis reprinted from 1998 MSMC report) Appendi x Table 5.1. Expecte d change in DAS usage for 1999 DAS allocatio n options based on 1997 VMS/cal l-in data. Shaded areas represe nt the status quo allocatio n of DAS.

Analysis is repeate d from last year's report. DAS in 1998 did not decline expecte

d by 7.4%

Fleet DAS permits								
DAS			100	97	93	88	84	
allocation Nominal effort reduction from 1997			114%	110%	106%	100%	95%	
Effective effort reduction			6%	6%	6%	6%	7%	
Expected 1999 DAS			29,360	29,353	29,346	29,328	29,173	
Individu al DAS permits Nominal reduction	Effective	Expected 1999 DAS						
form 1993	from 1997							
43% 45% 47%	9% 9% 9%	14,636 14,636 14,636	43,996 43,996 43,996	43,989 43,989 43,989	43,982 43,982 43,982	43,964 43,964 43,964	43,809 43,809 43,809	•
50% 53%	9% 11%	14,631 14,427	43,991 43,787	43,984 43,780	43,977 43,773	43,959 43,756	43,804 43,601	
55%	13%	13,987	43,347	43,340	43,333	43,315	43,160	
58%	17%	13,411	42,771	42,764	42,757	42,739	42,584	1
60% 62%	20% 24%	12,911 12,193	42,271 41,554	42,264 41,547	42,257 41,539	42,239 41,522	42,084 41,367	1
65%	29%	11,433	40,793	40,786	40,779	40,761	40,606	
67%	34%	10,651	40,011	40,004	39,997	39,979	39,824	
70%	39%	9,864	39,224	39,217	39,210	39,192	39,037	
73%	44%	9,050	38,410	38,403	38,396	38,378	38,223	
75%	48%	8,433	37,793	37,786	37,779	37,761	37,606	
77%	53%	7,600	36,960	36,953	36,946	36,928	36,773	
80%	58% 63%	6,757 5 001	36,117	36,110	36,103	36,085	35,930	
82% 85%	63% 69%	5,901 5,039	35,261 34,399	35,254 34,392	35,247 34,385	35,229 34,367	35,074 34,212	
87%	74%	4,176	33,536	33,529	33,522	33,504	33,349	
90%	80%	3,307	32,667	32,660	32,653	32,635	32,480	

9	2%	84%	2,654	32,014	32,007	32,000	31,982	31,827
9 Table 7.4. Expecte change in DAS usage for 1999 DAS allocati on 1997 VMS/cal l-in data. Shaded areas represe nt the status quo allocati on of		84%	2,654	32,014	32,007	32,000	31,982	31,827
DAS								

						Fleet		
Total		Individu						
		al						
Expected DAS usage	Effective reduction from 1997	Nominal reduction form 1993	Expected 1999 DAS	Effective reduction from 1997	Nominal effort reduction from 1996	DAS allocation	Expected 1999 DAS	Effective effort reduction
47,477	0%	1997 DAS used	16,133	0%	1997 DAS used		31,344	0%
43,996	7%	43%	14,636	9%	114%	100	29,360	6%
43,989	7%	45%	14,636	9%	110%	97	29,353	6%
43,982	7%	47%	14,636	9%	106%	93	29,346	6%
43,959	7%	50%	14,631	9%	100%	88	29,328	6%
43,601	8%	53%	14,427	11%	95%	84	29,173	7%
42,841	10%	55%	13,987	13%	90%	79	28,854	8%
41,778	12%	58%	13,411	17%	85%	74	28,367	9%
40,813	14%	60%	12,911	20%	81%	71	27,902	11%
39,373	17%		12,193	24%	75%	66	27,180	13%
37,782	20%		11,433	29%	70%	62	26,349	16%
36,038	24%	67%	10,651	34%	65%	57	25,387	19%

34,159	28%	70%	9,864	39%	60%	53	24,295	22%
32,121	32%	73%	9,050	44%	55%	48	23,072	26%
30,494	36%	75%	8,433	48%	51%	45	22,061	30%
28,181	41%	77%	7,600	53%	46%	40	20,582	34%
25,699	46%	80%	6,757	58%	40%	35	18,942	40%
23,056	51%	82%	5,901	63%	35%	31	17,155	45%
20,240	57%	85%	5,039	69%	30%	26	15,201	52%
17,252	64%	87%	4,176	74%	25%	22	13,076	58%
14,061	70%	90%	3,307	80%	20%	17	10,755	66%
11,535	76%	92%	2,654	84%	15%	13	8,882	72%

The MSMC did not have time to update this Table from last year's report. The Table is included to allow Council members an approximation to DAS allocations if DAS are reduced. The Groundfish Plan Development Team can update these analyses if the Council decides to reduce DAS in the annual adjustment.

The MSMC notes that total DAS increased to 52,025 in 1998, a 19% increase over predicted 1998 usage of 43,854 DAS.

1999

Appendix VI

Summary of Framework 30 Area Closures Measures for Georges Bank Cod

Options 3 and 4 require additional closures for Georges Bank cod. The MSMC did not have time to complete area closure analyses for Georges Bank cod. Framework 30 proposed closures to achieve a the $F_{0.1}$ target for Georges Bank cod. These proposals are summarized below.

SUMMARY OF FRAMEWORK 30 CLOSED AREA PROPOSALS

Options 1 and 2 do not require a trip limit to keep landings below the 1999 FY target TAC. Options 3 and 4 use a 2,000 pounds per day trip limit year-round.

Closed areas

The Council considered four primary area closure alternatives, some in combination with a trip limit, and two area closure alternatives to be implemented in conjunction with Framework 31. It adopted one of the latter two.

Closed Area Option 1

This option would close the following block/month combinations:

Block	Month(s)
98	June – September
111	April, May
109	May
110	May
113	June, July, September
114	May, June
	-

Discussion: This option is based on incrementally picking the block/month combinations with the highest landings, using the two-bin effort displacement analysis model, until the projected landings do not exceed the TAC. This option would not require a trip limit.

Closed Area Option 2

This option would close Blocks 98, 99 and 113 year round, and block 114 during May and June.

Discussion: This option differs from Option 1 in that it is based on incrementally selecting contiguous block/month combinations with the highest landings, using the two-bin effort displacement model, to stay below the TAC without a trip limit. Selecting contiguous blocks reduces enforcement problems and costs.

Closed Area Option 3

This option would close blocks 109-114 year round.

Discussion: The Council directed the staff to include an option that closes these specific blocks for sufficient time to keep projected landings below the TAC without a trip limit. The two-bin

analysis, that displaces effort from the closed areas into the open areas, indicated that even if these blocks were to be closed year round, a trip limit of 2,000 pounds per day would be necessary to keep projected landings below the TAC.

Closed Area Option 4

This option would close the following block/month combinations, in addition to a 2,000 pound per day trip limit:

Block	Month
98	July, August
110	May
111	April, May
113	July
114	June

Discussion: This option is similar to Option 1, except that the analysis started with the application of a 2,000 pound per day trip limit. The model incrementally selected the block/month combinations of highest cod landings until the projected landings were below the TAC with a 2,000 pound per day trip limit.

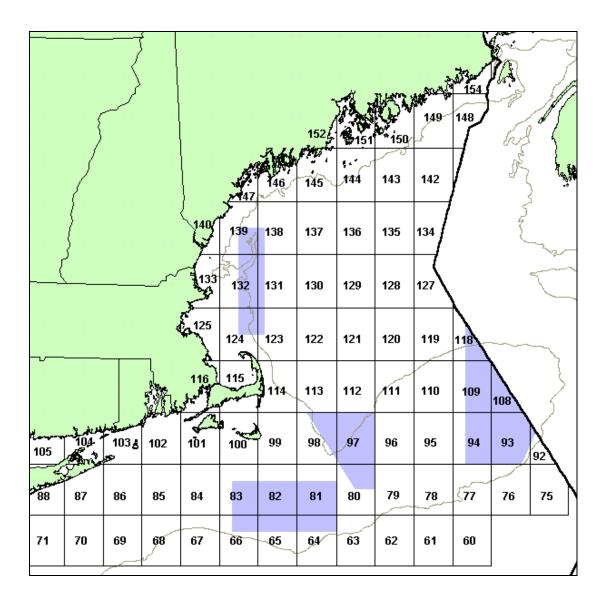


Table 1:
Number
of
Vessels*
in the
Gulf of
Maine
Cod
Fishery
by Gear
Sector
and
Vessel
Class
May
98 - April
99
Fishing
Year.

GEAR		MAINE	•		NEW	MASSAC				
SECTOR & VESSEL		Portland	Other	Tatal	HAMPSHIRE	HUSETTS	Clausestan	New Bedford	Other	Tota
CLASS		Portiand	Other	Total	HAMPSHIRE	Boston	Gloucester	New Bedford	Other	Tota
Otter Trawl Sector:										
	<51 GRT	33	59	92	33	8	40	1	57	1(
	51-150 GRT	34	20	54	2	5	34	13	20	7
	>150 GRT	6	0	6	0	5	7	3	1	1
	SUM	73	79	152	35	18	81	17	78	19
Gillnet	•	<u>.</u>				,				
Sector:	EL ODT	1	10				50		05	
	<51 GRT	15	18	33	27	0	53	1	35	٤
	51-150 GRT	2	0	2	2	0	4	0	0	
	>150 GRT	0	0	0	0	0	0	0	0	
	SUM	17	18	35	29	0	57	1	35	Ę
Hook Sector	:									
	<51 GRT	5	3	8	2	3	24	0	20	2
	51-150 GRT	2	1	3	0	0	0	0	0	
	>150 GRT	0	0	0	0	0	0	0	0	
	SUM	7	4	11	2	3	24	0	20	4
Other Gears	:	<u>.</u>				·				
	<51 GRT	2	9	11	10	0	35	0	47	5
	51-150 GRT	0	0	0	2	0	1	0	5	
	>150 GRT	1	0	1	0	0	0	1	0	
	SUM	3	9	12	12	0	36	1	52	Ę
Total of All Gear Sectors:										
	<51 GRT	55	89	144	72	11	152	2	159	32
	51-150 GRT	38	21	59	6	5	39	13	25	٤
	>150 GRT	7	0	7	0	5	7	4	1	1

	SUM	100	110	210	78	21	198	19	185	42
Source:										
Vessel Trip										
Reports * This										
number										
represents a										
certain amount of										
double										
counting										
because vessels may										
land at										
different										
ports and use different										
gears within										
a fishing										
year. The unique										
count of										
vessels for all gears										
was 554										
vessels for the 98-99										
fishing year.										
Table 2:										
Gulf of										
Maine Cod										
Landings										
in thousands										
of lbs.* by										
gear										
sector and										
vessel										
class										
Мау										
98 - April										
99 Fishing										
Year.										
GEAR		MAINE			NEW	MASSAC			-	
SECTOR &						HUSETTS				
VESSEL CLASS		Portland	Other	Total	HAMPSHIRE	Boston	Gloucester	New Bedford	Other	Tot
Otter Trawl Sector:										
	<51 GRT	123	202	325	550	45	510	0	540	1,(
	51-150 GRT	485	88	573	23	54	587	84	173	٤
	>150 GRT	118	0	118	0	24	150	7	4	
	SUM	726	290	1,016	573	123	1,247	91	717	2,′

Gillnet Sector:

	<51 GRT	227	245	472	718	0	976	0	320	1,:
	51-150 GRT	64	0	64	42	0	154	0	0	
	>150 GRT	0	0	0	0	0	0	0	0	
	SUM	291	245	536	760	0	1,130	0	320	1,4
Hook Sector:		<u> </u>								
	<51 GRT	23	2	25	0	2	76	0	91	
	51-150 GRT	26	1	27	0	0	0	0	0	
	>150 GRT	0	0	0	0	0	0	0	0	
	SUM	49	3	52	0	2	76	0	91	`
Other Gears:										
	<51 GRT	6	18	24	7	0	62	0	95	
	51-150 GRT	0	0	0	0	0	2	0	1	
	>150 GRT	33	0	33	0	0	0	0	0	
	SUM	39	18	57	7	0	64	0	96	•
Total of All Gear Sectors:										
	<51 GRT	379	467	846	1,275	47	1,624	0	1,046	2,7
	51-150 GRT	575	89	664	65	54	743	84	174	1,(
	>150 GRT	151	0	151	0	24	150	7	4	ŕ
	SUM	1,105	556	1,661	1,340	125	2,517	91	1,224	3,9

Source: Vessel Trip Reports and

Dealer Database * Landed Weight

Table 3: Number of Vessels* in the Georges Bank Cod Fishery by Gear Sector and Vessel Class May 98 - April 99 Fishing Year.

GEAR SECTOR &

VESSEL CLASS		Portland	Other	Total	HAMPSHIRE	Boston	Gloucester	New Bedford	Other	Tota
Otter Trawl Sector:										
	<51 GRT	5	0	5	1	4	5	3	19	3
	51-150 GRT	18	1	19	0	6	23	100	38	16
	>150 GRT	6	0	6	0	9	17	32	10	f
	SUM	29	1	30	1	19	45	135	67	26
Gillnet Sector:						,				
	<51 GRT	6	1	7	2	0	17	1	33	Ę
	51-150 GRT	1	0	1	0	0	1	0	1	
	>150 GRT	0	0	0	0	0	0	0	0	
	SUM	7	1	8	2	0	18	1	34	Ę
Hook Secto	or:									
	<51 GRT	1	3	4	0	0	3	0	39	2
	51-150 GRT	1	0	1	0	0	2	0	0	
	>150 GRT	0	0	0	0	0	0	0	0	
	SUM	2	3	5	0	0	5	0	39	2
Other Gear	s:						I			
	<51 GRT	2	1	3	0	0	3	1	112	1 1
	51-150 GRT	0	0	0	0	0	0	3	1	
	>150 GRT	1	0	1	0	0	0	3	0	
	SUM	3	1	4	0	0	3	7	113	12
Total of All Gear Sectors:	_			4						
	<51 GRT	14	5	19	3	4	28	5	203	24
	51-150 GRT	20	1	21	0	6	26	103	40	17
	>150 GRT	7	0	7	0	9	17	35	10	7
	SUM	41	6	47	3	19	71	143	253	48

Source: Vessel Trip Reports * This number represents a certain amount of double counting because vessels may land at different ports and use different gears within a fishing year. The unique count of vessels for all gears was 594 vessels for the 98-99 fishing year.

Table 4: Georges Bank Cod Landings in thousands of Ibs.* by Gear Sector and Vessel Class May 98 - April 99 Fishing Year.

GEAR		MAINE			NEW	MASSAC				
SECTOR &		Deathered	Others	Tatal		HUSETTS		New Dealfard	01	<u> </u>
VESSEL CLASS		Portland	Other	Total	HAMPSHIRE	Boston	Gloucester	New Bedford	Other	Tot
Otter Trawl		8					4			
Sector:										
	<51 GRT	7	0	7	2	5	24	3	79	· ·
	51-150 GRT	172	2	174	0	287	697	3,433	179	4,
	>150 GRT	217	0	217	0	596	999	2,232	146	3,9
	SUM	396	2	398	2	888	1,720	5,668	404	8,(
Gillnet Sector		-								
	<51 GRT	15	2	17	25	0	189	7	1,392	1,{
	51-150 GRT	13	0	13	0	0	15	0	216	2
	>150 GRT	0	0	0	0	0	0	0	0	
	SUM	28	2	30	25	0	204	7	1,608	1,8
Hook Sector:							4			
	<51 GRT	0	17	17	0	0	373	0	3,026	3,:
	51-150 GRT	0	0	0	0	0	279	0	0	1
	>150 GRT	0	0	0	0	0	0	0	0	<u> </u>
	SUM	0	17	17	0	0	652	0	3,026	3,(
Other Gears:										
	<51 GRT	16	3	19	0	0	2	0	1,324	1,:
	51-150 GRT	0	0	0	0		0	8	0	
	>150 GRT	66	0	66	0	0	0	1	0	
	SUM	82	3	85	0	0	2	9	1,324	1,:
Total of All										<u> </u>
Gear Sectors										
	<51 GRT	38	22	60	27	5	588	10	5,821	6,4
	51-150 GRT	185	2	187	0	287	991	3,441	395	5, ⁻
	>150 GRT	283	0	283	0	596	999	2,233	146	3,9
	SUM	506	24	530	27	888	2,578	5,684	6,362	15,

Source: Vessel Trip

Reports and Dealer Database * Landed Weight

Table 5: Frequency Distribution of Vessels' Annual GOM Cod Landings May 1998 - April 1999 Fishing Year.

Annual Cod Landings	Number of	%	Landings	%
(in thousands of lbs)	Vessels		(thousand lbs)	
<1	100	18%	19	0%
>0-1	65	12%	67	1%
>1-5	93	17%	310	4%
>5-10	78	14%	615	9%
>10-20	93	17%	1,340	19%
>20-30	53	10%	1,331	19%
>30-40	36	6%	1,239	18%
>40-50	15	3%	656	9%
>50-60	9	2%	484	7%
>60-70	6	1%	387	6%
>70-80	4	1%	297	4%
>80	2	0%	213	3%
Total	554	100%	6,957	100%

Source: Vessel Trip Reports and Dealer Database

Table 6: Frequency Distribution of Vessels' Annual GB Cod Landings May 1998 - April 1999 Fishing Year.

Annual Cod Landings	Number of	%	Landings	%
(in thousands of lbs)	Vessels		(thousand lbs)	
<1	155	26%	21	0%
>0-1	66	11%	64	0%
>1-5	86	14%	255	2%
>5-10	44	7%	345	2%
>10-20	64	11%	1,008	6%
>20-30	34	6%	874	5%
>30-40	31	5%	1,081	6%
>40-50	11	2%	504	3%
>50-60	11	2%	597	4%
>60-70	18	3%	1,180	7%
>70-80	16	3%	1,205	7%
>80	58	10%	9,583	57%
Total	594	100%	16,717	100%

Source: Vessel Trip Reports and Dealer Database

1999

Appendix VII

Management Proposal from David T. Goethel