

Multispecies Monitoring Report

1998

Appendix I

Statistical Areas Associated with Stock Definitions

Appendix Table 1.1. Statistical areas defining species' stock area.

American Plaice

Gulf of Maine/

Mid Atlantic: 500-526, 530-539, 541-543, 551-562, 600's

Other: 310, 320, 330, 340, 350, 464-467, area unknown.

COD

Gulf of Maine: 510-515.

Georges Bank: 520s, 530s, 540s, 600's. Area 500 was apportioned between Gulf of Maine and Georges Bank cod.

Other: 310, 320, 330, 340, 350, 464-467. Area unknown was apportioned among known stock areas.

Haddock

Gulf of Maine: 510-515, Area 500 apportioned between Georges Bank and Gulf of Maine haddock.

Georges Bank: 520-526, 537-539, 551-562, Area 500 apportioned between Georges Bank and Gulf of Maine haddock.

Other : 310, 320, 330, 340, 350, 464-467, 533, 534, 541-543, 600s. Area unknown was apportioned among known stock areas.

Pollock

SA 4 & 5: 464-562.

Other: 310, 320, 330, 340, 350, 600s, area unknown.

Redfish

SA 5: 500-562.

Other: 310, 320, 330, 340,, 350, 464-467, 600s, unknown areas.

White hake: all areas.

Windowpane

North: 464-467, 510-515, 521-525, 542, 543, 551, 552, 561, 562.

South: 526, 530-539, 541, 600s.

Other: 310, 320, 330, 340, 350, 500, 520, area unknown.

Winter flounder

Gulf of Maine: 510-515.

Georges Bank: 522, 525, 551, 552, 561, 562.

Southern New England

/Mid Atlantic: 521, 526, 537-539, 600's

Other: 310, 320, 330, 340, 350, 464-467, 500, 520, 530, 533, 534, 541-543, area unknown.

Witch flounder

GOM/ GB: 510-526, 551-562

Other: 310, 320, 330, 340, 350, 464-467, 530-539, 541-543, 600s, area unknown.

Yellowtail flounder

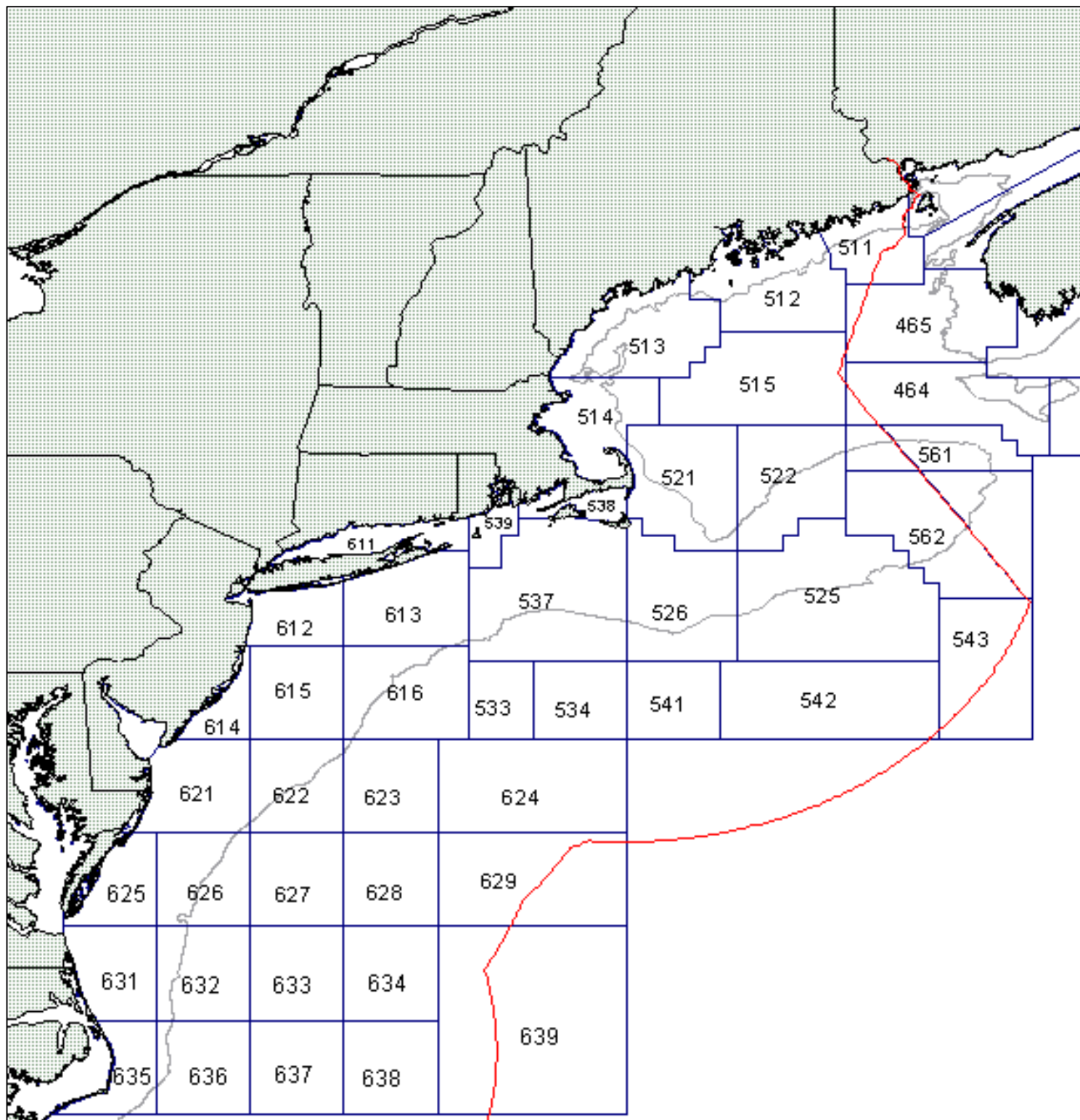
Cape Cod Bay: 514, 521.

Georges Bank: 522, 525, 551, 552, 561, 562.

Southern New England: 526, 537-539.

Other: 310, 320, 330, 340, 350, 464-467, 511, 512, 513, 515, 533, 534, 541-543, 600s. Areas 500, 510, 520, 530 and area unknown were apportioned among known stock areas.

Appendix Figure 1.1. Statistical areas used in stock definitions in appendix Table 1.1



Multispecies Monitoring Report

1998

Appendix II

Preliminary Prorated Monthly Landings for January through December 1997

APPENDIX TABLE 2.1 - 1997 PRELIMINARY PRORATED COD LANDINGS

	JAN-97	FEB-97	MAR-97	APR-97	MAY-97	JUN-97	JUL-97	AUG-97	SEP-97	OCT-97	NOV-97	DEC-97	JAN-DEC 1997
	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS
NORTH = 464 + 465	0	0	0	0	0	12,371	0	0	0	0	0	0	12,371
OTTER TRAWL	0	0	0	0	0	12,371	0	0	0	0	0	0	12,371
GILLNET	0	0	0	0	0	0	0	0	0	0	0	0	0
HOOK	0	0	0	0	0	0	0	0	0	0	0	0	0
OTHER GEAR	0	0	0	0	0	0	0	0	0	0	0	0	0
GULF OF MAINE	667,328	1,097,317	898,087	1,565,107	1,439,906	1,477,725	864,563	585,433	673,810	953,137	1,096,666	904,255	12,223,334
OTTER TRAWL	330,431	672,570	549,648	983,874	1,072,521	966,608	345,789	148,505	181,918	332,190	561,425	426,657	6,572,136
GILLNET	115,903	250,086	229,563	450,822	346,019	494,858	499,876	405,499	469,311	596,981	483,614	242,202	4,584,735
HOOK	201,999	151,628	82,159	75,661	15,359	1,964	8,336	20,567	18,472	20,428	42,436	223,774	862,783
OTHER GEAR	18,995	23,032	36,717	54,750	6,007	14,295	10,562	10,863	4,108	3,538	9,191	11,622	203,680
GEORGES BANK + SNE/MA	626,441	720,736	1,072,610	2,037,630	3,188,051	2,367,532	1,595,026	1,252,625	1,203,537	885,191	395,760	1,039,402	16,384,541
OTTER TRAWL	348,745	482,498	779,203	1,539,925	2,427,881	1,346,039	539,466	571,411	820,893	629,510	252,615	510,367	10,248,554
GILLNET	54,321	32,314	33,315	120,361	581,175	842,010	777,340	287,294	147,875	144,407	78,734	63,076	3,162,223
HOOK	158,709	119,881	135,533	230,294	134,049	65,215	226,659	279,892	160,223	55,457	15,717	267,554	1,849,183
OTHER GEAR	64,667	86,043	124,559	147,050	44,945	114,269	51,559	114,029	74,544	55,818	48,694	198,405	1,124,582
ALL AREAS	1,293,770	1,818,053	1,970,697	3,602,737	4,627,957	3,857,628	2,459,588	1,838,059	1,877,346	1,838,329	1,492,426	1,943,657	28,620,246
OTTER TRAWL	679,176	1,155,068	1,328,852	2,523,799	3,500,403	2,325,017	885,256	719,916	1,002,811	961,700	814,040	937,025	16,833,062
GILLNET	170,223	282,400	262,878	571,184	927,194	1,336,868	1,277,216	692,793	617,187	741,388	562,349	305,278	7,746,958
HOOK	360,708	271,510	217,692	305,955	149,408	67,179	234,995	300,458	178,696	75,884	58,153	491,328	2,711,966
OTHER GEAR	83,662	109,075	161,276	201,799	50,952	128,563	62,121	124,891	78,653	59,357	57,885	210,026	1,328,262

1. Landings in live weight.

2. Gear data are based on vessel trip reports.

APPENDIX TABLE 2.2 - 1997 PRELIMINARY PRORATED HADDOCK LANDINGS

		JAN-97	FEB-97	MAR-97	APR-97	MAY-97	JUN-97	JUL-97	AUG-97	SEP-97	OCT-97	NOV-97	DEC-97	JAN-DEC 1997
		LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS
NORTH = 464 + 465		0	0	0	0	0	0	0	0	0	0	0	0	0
	OTTER TRAWL	0	0	0	0	0	0	0	0	0	0	0	0	0
	GILLNET	0	0	0	0	0	0	0	0	0	0	0	0	0
	HOOK	0	0	0	0	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0	0	0	0	0
GULF OF MAINE		47,373	66,322	60,599	61,275	12,297	31,717	31,888	56,674	235,508	297,859	287,493	184,586	1,373,593
	OTTER TRAWL	29,202	51,351	45,390	16,332	6,572	22,579	22,991	38,947	217,806	253,069	237,743	131,699	1,073,682
	GILLNET	4,929	10,118	2,525	3,713	3,153	8,455	5,302	5,491	10,820	30,305	19,805	9,135	113,750
	HOOK	13,229	4,623	11,294	39,989	2,517	482	3,486	12,170	6,876	14,466	29,945	43,740	182,817
	OTHER GEAR	14	231	1,390	1,240	54	201	109	67	6	19	0	12	3,343
GEORGES BANK		87,061	83,137	58,549	79,097	116,961	110,854	117,663	91,756	476,995	415,495	109,290	194,108	1,940,966
	OTTER TRAWL	74,106	71,839	53,893	69,683	111,912	81,077	74,656	80,103	467,828	410,959	100,500	169,792	1,766,347
	GILLNET	3,354	2,636	172	1,362	2,445	15,831	18,609	4,297	1,016	3,531	3,720	4,872	61,844
	HOOK	9,523	8,488	4,434	7,908	1,236	13,738	24,019	7,356	5,615	997	5,066	19,439	107,819
	OTHER GEAR	79	173	50	144	1,368	209	379	0	2,537	8	4	5	4,955
GEORGES BANK SOUTH		0	0	103	0	0	0	105	0	0	0	0	0	208
	OTTER TRAWL	0	0	103	0	0	0	0	0	0	0	0	0	103
	GILLNET	0	0	0	0	0	0	0	0	0	0	0	0	0
	HOOK	0	0	0	0	0	0	105	0	0	0	0	0	105
	OTHER GEAR	0	0	0	0	0	0	0	0	0	0	0	0	0
SNE/MID-ATLANTIC		0	0	0	0	0	21	29	212	0	1,357	0	0	1,620
	OTTER TRAWL	0	0	0	0	0	21	2	0	0	0	0	0	23
	GILLNET	0	0	0	0	0	0	27	209	0	1,357	0	0	1,594
	HOOK	0	0	0	0	0	0	0	3	0	0	0	0	3
	OTHER GEAR	0	0	0	0	0	0	0	0	0	0	0	0	0
ALL AREAS		134,435	149,460	119,251	140,372	129,258	142,592	149,684	148,642	712,503	714,712	396,783	378,694	3,316,385
	OTTER TRAWL	103,307	123,190	99,386	86,016	118,484	103,677	97,648	119,050	685,634	664,028	338,243	301,491	2,840,155
	GILLNET	8,283	12,754	2,696	5,075	5,598	24,286	23,938	9,997	11,836	35,193	23,524	14,007	177,188
	HOOK	22,751	13,111	15,728	47,897	3,754	14,219	27,610	19,529	12,491	15,464	35,011	63,179	290,744
	OTHER GEAR	92	404	1,440	1,384	1,422	410	488	67	2,543	27	4	17	8,299

1. Landings in live weight.

2. Gear data are based on vessel trip reports.

APPENDIX TABLE 2.3 - 1997 PRELIMINARY PRORATED YELLOWTAIL LANDINGS

	JAN-97	FEB-97	MAR-97	APR-97	MAY-97	JUN-97	JUL-97	AUG-97	SEP-97	OCT-97	NOV-97	DEC-97	JAN-DEC-97
	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS
NORTH = 464 + 465	0	0	0	0	0	0	0	0	0	0	0	0	0
OTTER TRAWL	0	0	0	0	0	0	0	0	0	0	0	0	0
GILLNET	0	0	0	0	0	0	0	0	0	0	0	0	0
HOOK	0	0	0	0	0	0	0	0	0	0	0	0	0
OTHER GEAR	0	0	0	0	0	0	0	0	0	0	0	0	0
GULF OF MAINE	713	1,052	4,241	30,196	51,147	44,641	5,917	4,433	1,182	2,814	4,299	3,866	154,499
OTTER TRAWL	702	1,048	2,184	16,892	32,639	29,349	4,224	3,971	755	2,573	4,225	3,796	102,359
GILLNET	11	4	1,618	13,181	18,363	15,292	1,672	398	414	240	74	69	51,336
HOOK	0	0	0	0	0	0	0	0	0	0	0	0	0
OTHER GEAR	0	0	439	123	145	0	21	64	13	0	0	0	805
CAPE COD	113,043	159,830	238,319	284,918	227,576	139,333	48,711	70,737	125,387	254,917	373,032	213,828	2,249,632
OTTER TRAWL	89,614	67,546	78,617	158,252	106,620	86,538	38,673	65,541	124,322	252,747	367,929	209,059	1,645,456
GILLNET	19,575	85,633	154,484	119,980	118,541	51,290	8,549	3,334	267	1,159	2,264	2,353	567,428
HOOK	0	0	0	1	0	0	4	7	0	0	0	2	14
OTHER GEAR	3,854	6,651	5,219	6,685	2,415	1,506	1,485	1,856	798	1,011	2,838	2,416	36,734
GEORGES BANK	259,122	121,998	418,003	184,590	232,162	162,230	90,341	75,061	82,534	66,226	17,387	392,544	2,102,198
OTTER TRAWL	259,122	121,626	417,192	182,839	230,511	157,127	87,762	73,492	81,914	65,310	17,151	392,034	2,086,078
GILLNET	0	0	0	0	0	0	0	0	0	0	0	0	0
HOOK	0	0	0	0	0	0	0	0	0	0	0	0	0
OTHER GEAR	0	373	811	1,752	1,651	5,103	2,579	1,569	620	915	237	511	16,121
GEORGES BANK SOUTH	0	0	8,078	0	0	0	0	0	0	0	0	13,374	21,452
OTTER TRAWL	0	0	8,078	0	0	0	0	0	0	0	0	13,374	21,452
GILLNET	0	0	0	0	0	0	0	0	0	0	0	0	0
HOOK	0	0	0	0	0	0	0	0	0	0	0	0	0
OTHER GEAR	0	0	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN NEW ENGLAND	97,141	89,402	79,315	62,017	35,585	29,725	59,328	33,374	43,185	24,316	5,910	37,830	597,128
OTTER TRAWL	97,133	89,336	79,280	60,606	34,706	28,767	58,520	33,233	43,162	24,130	5,815	37,313	592,001
GILLNET	7	66	35	940	1	0	0	0	0	0	12	1	1,062
HOOK	1	0	0	0	0	0	0	0	0	0	0	0	1
OTHER GEAR	0	0	0	472	878	958	808	141	22	185	83	516	4,063
S. NEW ENGLAND SOUTH	0	0	0	0	4	900	0	0	0	0	0	0	904
OTTER TRAWL	0	0	0	0	4	0	0	0	0	0	0	0	4
GILLNET	0	0	0	0	0	0	0	0	0	0	0	0	0
HOOK	0	0	0	0	0	900	0	0	0	0	0	0	900
OTHER GEAR	0	0	0	0	0	0	0	0	0	0	0	0	0
SUM ALL GEAR													
MID-ATLANTIC	139,029	337,959	280,100	170,790	24,291	56,806	101,897	10,367	17,571	5,625	5,669	37,304	1,187,408
OTTER TRAWL	137,321	333,721	274,785	167,860	17,199	50,280	100,072	9,007	13,667	2,641	4,259	34,339	1,145,151
GILLNET	21	38	92	31	2	0	0	0	0	0	0	0	183
HOOK	0	0	0	0	0	0	0	0	0	0	0	0	0
OTHER GEAR	1,687	4,200	5,223	2,899	7,090	6,526	1,825	1,361	3,904	2,984	1,410	2,965	42,074
ALL AREAS	609,047	710,241	1,028,057	732,512	570,765	433,634	306,194	193,973	269,859	353,896	406,297	698,746	6,313,221
OTTER TRAWL	583,891	613,276	860,137	586,448	421,678	352,060	289,251	185,243	263,821	347,401	399,379	689,914	5,592,501
GILLNET	19,614	85,741	156,229	134,131	136,907	66,582	10,221	3,732	681	1,399	2,350	2,423	620,010
HOOK	1	0	0	1	0	900	4	7	0	0	0	2	914
OTHER GEAR	5,541	11,224	11,691	11,932	12,180	14,093	6,718	4,991	5,357	5,096	4,568	6,407	99,797

1. Landings in live weight.

2. Gear data are based on vessel trip reports.

APPENDIX TABLE 2.4 - 1997 PRELIMINARY PRORATED ATLANTIC POLLOCK LANDINGS

		JAN-97	FEB-97	MAR-97	APR-97	MAY-97	JUN-97	JUL-97	AUG-97	SEP-97	OCT-97	NOV-97	DEC-97
		LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS
A450		532,342	728,271	481,636	645,562	496,589	1,169,172	912,482	739,471	889,696	860,854	841,077	1,048,391
	OTTER TRAWL	295,060	385,280	331,263	394,776	280,072	837,955	395,220	304,203	520,684	475,752	409,963	507,488
	GILLNET	222,429	331,800	136,590	244,697	191,301	295,592	501,541	416,913	362,746	381,246	423,626	513,028
	HOOK	12,278	7,414	3,470	2,093	2,157	2,467	7,089	13,624	4,560	2,484	4,750	18,301
	OTHER GEAR	2,575	3,777	10,312	3,997	23,059	33,158	8,632	4,731	1,707	1,372	2,738	9,574
A600		60	605	109	213	2,598	429	717	3,480	2,496	14,430	1,247	275
	OTTER TRAWL	60	202	0	0	0	427	309	93	0	0	27	0
	GILLNET	0	0	0	4	9	0	408	3,373	2,496	14,430	1,203	80
	HOOK	0	0	0	0	0	0	0	7	0	0	0	0
	OTHER GEAR	0	403	109	209	2,589	1	0	7	0	0	18	194
ALL AREAS		532,402	728,875	481,744	645,775	499,187	1,169,601	913,200	742,950	892,192	875,284	842,324	1,048,666
	OTTER TRAWL	295,120	385,481	331,263	394,776	280,072	838,382	395,529	304,295	520,684	475,752	409,990	507,488
	GILLNET	222,429	331,800	136,590	244,701	191,310	295,592	501,949	420,287	365,241	395,675	424,829	513,108
	HOOK	12,278	7,414	3,470	2,093	2,157	2,467	7,089	13,631	4,560	2,484	4,750	18,301
	OTHER GEAR	2,575	4,180	10,421	4,205	25,648	33,160	8,632	4,738	1,707	1,372	2,756	9,769

1. Landings in live weight.

2. Gear data are based on vessel trip reports.

APPENDIX TABLE 2.5 - 1997 PRELIMINARY PRORATED REDFISH LANDINGS

		JAN-97	FEB-97	MAR-97	APR-97	MAY-97	JUN-97	JUL-97	AUG-97	SEP-97	OCT-97	NOV-97	DEC-97
		LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS
A400		0	0	0	0	0	638	0	0	0	0	0	0
	OTTER TRAWL	0	0	0	0	0	638	0	0	0	0	0	0
	GILLNET	0	0	0	0	0	0	0	0	0	0	0	0
	HOOK	0	0	0	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0	0	0	0
	SUM ALL GEAR												
A500		34,424	53,391	62,725	76,846	11,360	39,554	46,702	47,360	60,382	53,943	24,221	35,426
	OTTER TRAWL	32,319	51,504	61,801	73,900	8,833	36,374	41,526	41,992	54,452	51,560	22,079	32,744
	GILLNET	1,955	1,849	294	2,899	2,247	3,135	4,906	4,290	5,294	2,174	1,823	2,505
	HOOK	149	38	90	43	42	25	259	1,072	616	201	319	177
	OTHER GEAR	0	0	539	4	238	20	11	5	21	7	0	0
	SUM ALL GEAR												
A600		173	574	193	11	3	464	87	385	145	1,114	20	330
	OTTER TRAWL	173	574	193	8	0	463	81	24	10	14	0	330
	GILLNET	0	0	0	0	0	0	0	361	134	1,100	0	0
	HOOK	0	0	0	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	3	3	1	6	0	1	0	20	0
	SUM ALL GEAR												
ALL AREAS		34,597	53,965	62,918	76,857	11,363	40,656	46,789	47,745	60,527	55,057	24,241	35,756
	OTTER TRAWL	32,492	52,078	61,994	73,908	8,833	37,475	41,607	42,016	54,462	51,574	22,079	33,074
	GILLNET	1,955	1,849	294	2,899	2,247	3,135	4,906	4,651	5,428	3,274	1,823	2,505
	HOOK	149	38	90	43	42	25	259	1,072	616	201	319	177
	OTHER GEAR	0	0	539	7	241	21	17	5	22	7	20	0

1. Landings in live weight.

2. Gear data are based on vessel trip reports.

APPENDIX TABLE 2.6 - 1997 PRELIMINARY PRORATED WHITE HAKE LANDINGS

		JAN-97	FEB-97	MAR-97	APR-97	MAY-97	JUN-97	JUL-97	AUG-97	SEP-97	OCT-97	NOV-97	DEC-97
		LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS
A400		0	0	0	0	0	0	0	0	0	0	0	0
	OTTER TRAWL	0	0	0	0	0	0	0	0	0	0	0	0
	GILLNET	0	0	0	0	0	0	0	0	0	0	0	0
	HOOK	0	0	0	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0	0	0	0
A500		208,734	251,676	158,135	147,692	121,223	451,538	591,022	743,435	745,693	617,505	448,269	312,838
	OTTER TRAWL	193,193	240,073	115,962	128,237	95,773	348,367	286,396	299,035	394,342	360,018	322,096	86,764
	GILLNET	12,227	9,671	23,289	6,993	24,951	90,027	211,234	334,530	270,551	141,261	69,301	61,869
	HOOK	3,011	1,872	18,873	12,432	367	12,779	92,932	108,660	80,458	116,225	56,871	164,045
	OTHER GEAR	302	60	11	30	132	365	459	1,210	342	0	2	160
A600		5,138	3,292	3,362	10,962	16,328	9,429	5,998	15,456	5,369	7,648	1,500	3,181
	OTTER TRAWL	5,129	3,292	3,362	10,962	16,328	9,429	4,613	1,244	611	488	1,500	3,086
	GILLNET	8	0	0	0	0	0	107	13,110	4,758	6,947	0	0
	HOOK	0	0	0	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	1,278	1,102	0	213	0	95
ALL AREAS		213,871	254,968	161,497	158,654	137,551	460,966	597,020	758,891	751,062	625,153	449,769	316,019
	OTTER TRAWL	198,323	243,365	119,324	139,199	112,101	357,796	291,009	300,279	394,952	360,506	323,596	89,850
	GILLNET	12,236	9,671	23,289	6,993	24,951	90,027	211,341	347,640	275,310	148,209	69,301	61,869
	HOOK	3,011	1,872	18,873	12,432	367	12,779	92,932	108,660	80,458	116,225	56,871	164,045
	OTHER GEAR	302	60	11	30	132	365	1,737	2,313	342	213	2	255

APPENDIX TABLE 2.7 - 1997 PRELIMINARY PRORATED AMERICAN PLAICE LANDINGS

		JAN-97	FEB-97	MAR-97	APR-97	MAY-97	JUN-97	JUL-97	AUG-97	SEP-97	OCT-97	NOV-97	DEC-97
		LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS
NORTH = 464 + 465		0	0	0	0	0	4,046	0	0	0	0	0	0
	OTTER TRAWL	0	0	0	0	0	4,046	0	0	0	0	0	0
	GILLNET	0	0	0	0	0	0	0	0	0	0	0	0
	HOOK	0	0	0	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0	0	0	0
GEORGES BANK		378,379	444,860	450,429	935,912	1,059,428	1,295,281	772,259	908,483	991,047	595,710	429,714	373,255
	OTTER TRAWL	376,517	436,836	422,841	816,014	965,378	1,255,711	761,343	904,571	984,894	595,091	429,017	370,945
	GILLNET	420	1,751	12,455	88,620	91,190	25,632	4,450	2,405	1,692	464	697	298
	HOOK	0	0	2	13	18	15	21	2	1	6	0	1
	OTHER GEAR	1,443	6,273	15,131	31,265	2,842	13,924	6,445	1,505	4,461	148	0	2,012
GEORGES BANK SOUTH		0	0	337	0	0	0	0	0	0	0	0	0
	OTTER TRAWL	0	0	337	0	0	0	0	0	0	0	0	0
	GILLNET	0	0	0	0	0	0	0	0	0	0	0	0
	HOOK	0	0	0	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN NEW ENGLAND		986	1,283	1,023	2,673	3,318	3,574	156	8,535	921	2,020	577	4,577
	OTTER TRAWL	986	1,283	1,023	2,673	3,036	3,572	156	8,535	921	2,016	577	4,563
	GILLNET	0	0	0	0	0	0	0	0	0	3	0	14
	HOOK	0	0	0	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	282	2	0	0	0	0	0	0
MID-ATLANTIC		16	92	680	178	1,522	5,451	1,016	15	0	44	0	23
	OTTER TRAWL	16	79	680	178	1,521	5,451	1,016	15	0	41	0	23
	GILLNET	0	0	0	0	1	0	0	0	0	3	0	0
	HOOK	0	0	0	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	13	0	0	0	0	0	0	0	0	0	0
ALL AREAS		379,382	446,235	452,469	938,763	1,064,268	1,308,351	773,431	917,033	991,968	597,773	430,291	377,855
	OTTER TRAWL	377,520	438,198	424,881	818,865	969,935	1,268,779	762,515	913,121	985,814	597,148	429,594	375,530
	GILLNET	420	1,751	12,455	88,620	91,191	25,632	4,450	2,405	1,692	470	697	312
	HOOK	0	0	2	13	18	15	21	2	1	6	0	1
	OTHER GEAR	1,443	6,285	15,131	31,265	3,124	13,925	6,445	1,505	4,461	148	0	2,012

1. Landings in live weight.

2. Gear data are based on vessel trip reports.

APPENDIX TABLE 2.8 - 1997 PRELIMINARY PRORATED WINTER FLOUNDER LANDINGS

		JAN-97	FEB-97	MAR-97	APR-97	MAY-97	JUN-97	JUL-97	AUG-97	SEP-97	OCT-97	NOV-97	DEC-97
		LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS
NORTH = 464 + 465		0	0	0	0	0	0	0	0	0	0	0	0
	OTTER TRAWL	0	0	0	0	0	0	0	0	0	0	0	0
	GILLNET	0	0	0	0	0	0	0	0	0	0	0	0
	HOOK	0	0	0	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0	0	0	0
GULF OF MAINE		67,944	53,486	59,436	201,954	143,798	54,911	19,784	99,754	65,404	120,962	168,171	165,595
	OTTER TRAWL	64,665	46,945	32,898	102,524	68,772	40,042	13,694	95,546	59,697	104,899	162,275	160,495
	GILLNET	2,328	5,004	24,481	96,571	74,987	14,682	5,972	3,649	5,269	15,821	5,651	3,807
	HOOK	0	0	5	32	27	0	0	6	216	203	22	29
	OTHER GEAR	952	1,537	2,052	2,826	11	187	118	554	222	40	223	1,263
GEORGES BANK		41,973	26,693	101,955	60,296	577,001	573,804	388,851	199,923	193,322	158,340	210,109	221,992
	OTTER TRAWL	41,973	26,683	101,255	59,279	575,469	570,430	385,902	198,185	189,882	158,196	207,919	219,333
	GILLNET	0	10	0	0	0	0	0	0	0	0	0	0
	HOOK	0	0	0	0	0	15	0	0	9	4	7	0
	OTHER GEAR	0	0	701	1,016	1,532	3,359	2,949	1,739	3,431	140	2,183	2,659
GEORGES BANK SOUTH		0	0	54	0	0	0	0	0	0	0	0	0
	OTTER TRAWL	0	0	54	0	0	0	0	0	0	0	0	0
	GILLNET	0	0	0	0	0	0	0	0	0	0	0	0
	HOOK	0	0	0	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0	0	0	0
SNE / MID-ATLANTIC		173,368	149,017	179,197	335,973	583,247	571,991	857,954	1,303,161	1,324,613	1,252,406	532,524	489,626
	OTTER TRAWL	170,723	145,505	169,979	317,916	564,883	561,724	848,279	1,274,649	1,315,724	1,227,938	527,641	486,376
	GILLNET	346	375	282	10,324	9,677	7,062	3,028	23,124	4,794	20,125	1,878	310
	HOOK	2	0	1	68	12	102	128	263	78	32	12	184
	OTHER GEAR	2,297	3,136	8,935	7,665	8,675	3,103	6,518	5,126	4,017	4,310	2,992	2,756
S. NEW ENGLAND SOUTH		0	0	0	773	110	0	0	0	0	0	0	0
	OTTER TRAWL	0	0	0	0	104	0	0	0	0	0	0	0
	GILLNET	0	0	0	773	6	0	0	0	0	0	0	0
	HOOK	0	0	0	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0	0	0	0
ALL AREAS		283,285	229,196	340,643	598,996	1,304,156	1,200,706	1,266,588	1,602,839	1,583,339	1,531,708	910,804	877,213
	OTTER TRAWL	277,361	219,134	304,185	479,720	1,209,228	1,172,196	1,247,876	1,568,379	1,565,304	1,491,032	897,836	866,205
	GILLNET	2,674	5,389	24,764	107,669	84,670	21,744	9,000	26,773	10,063	35,946	7,529	4,117
	HOOK	2	0	6	100	39	117	128	268	304	239	42	213
	OTHER GEAR	3,248	4,673	11,688	11,507	10,219	6,649	9,585	7,419	7,669	4,491	5,398	6,678

1. Landings in live weight.

2. Gear data are based on vessel trip reports.

APPENDIX TABLE 2.9 - 1997 PRELIMINARY PRORATED WITCH FLOUNDER LANDINGS

	JAN-97	FEB-97	MAR-97	APR-97	MAY-97	JUN-97	JUL-97	AUG-97	SEP-97	OCT-97	NOV-97	DEC-97
	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS
NORTH = 464 + 465	0	0	0	0	0	1,235	0	0	0	0	0	0
OTTER TRAWL	0	0	0	0	0	1,235	0	0	0	0	0	0
GILLNET	0	0	0	0	0	0	0	0	0	0	0	0
HOOK	0	0	0	0	0	0	0	0	0	0	0	0
OTHER GEAR	0	0	0	0	0	0	0	0	0	0	0	0
GULF OF MAINE/ GEORGES BANK	234,660	282,749	289,395	358,275	394,418	544,242	373,831	295,430	358,628	237,041	181,919	251,499
OTTER TRAWL	234,523	282,335	281,547	355,365	371,447	519,794	359,538	287,172	356,401	236,421	181,683	251,333
GILLNET	15	6	55	1,851	16,264	16,714	7,496	5,883	1,375	619	235	33
HOOK	0	0	0	0	0	0	0	0	29	0	0	0
OTHER GEAR	122	408	7,793	1,059	6,707	7,735	6,797	2,374	823	0	0	132
GEORGES BANK SOUTH	0	0	29	0	0	0	0	0	0	0	0	0
OTTER TRAWL	0	0	29	0	0	0	0	0	0	0	0	0
GILLNET	0	0	0	0	0	0	0	0	0	0	0	0
HOOK	0	0	0	0	0	0	0	0	0	0	0	0
OTHER GEAR	0	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN NEW ENGLAND	2,877	5,804	2,098	1,792	7,866	8,607	4,932	18,067	5,516	3,626	3,796	2,691
OTTER TRAWL	2,877	5,804	2,098	1,743	7,654	8,607	4,932	18,067	5,516	3,621	3,796	2,691
GILLNET	0	0	0	49	0	0	0	0	0	5	0	0
HOOK	0	0	0	0	0	0	0	0	0	0	0	0
OTHER GEAR	0	0	0	0	211	0	0	0	0	0	0	0
MID-ATLANTIC	5,386	5,803	5,621	8,635	4,225	4,203	1,335	153	126	394	175	4,626
OTTER TRAWL	5,386	5,667	5,217	8,110	3,882	3,286	1,227	153	126	394	175	4,626
GILLNET	0	98	174	0	0	0	0	0	0	0	0	0
HOOK	0	0	0	0	0	0	0	0	0	0	0	0
OTHER GEAR	0	39	230	525	343	917	109	0	0	0	0	0
ALL AREAS	242,923	294,356	297,142	368,702	406,508	558,286	380,099	313,650	364,271	241,061	185,890	258,816
OTTER TRAWL	242,785	293,806	288,890	365,218	382,983	532,921	365,697	305,392	362,044	240,437	185,655	258,650
GILLNET	15	103	229	1,900	16,264	16,714	7,496	5,883	1,375	624	235	33
HOOK	0	0	0	0	0	0	0	0	29	0	0	0
OTHER GEAR	122	447	8,023	1,584	7,261	8,651	6,906	2,374	823	0	0	132

1. Landings in live weight.

2. Gear data are based on vessel trip reports.

APPENDIX TABLE 2.10 - 1997 PRELIMINARY PRORATED WINDOWPANE FLOUNDER LANDINGS

	JAN-97	FEB-97	MAR-97	APR-97	MAY-97	JUN-97	JUL-97	AUG-97	SEP-97	OCT-97	NOV-97	DEC-97
	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS
GULF of MAINE/ GEORGES BANK	14,138	61,311	215,967	78,886	90,170	36,028	23,153	12,013	26,477	23,438	311,909	28,732
OTTER TRAWL	14,068	61,094	215,504	78,701	89,739	35,421	22,712	11,811	26,465	23,433	311,830	28,732
GILLNET	16	89	373	24	380	15	440	0	11	5	79	0
HOOK	0	0	0	0	0	0	0	0	0	0	0	0
OTHER GEAR	55	129	89	162	50	592	0	202	1	0	0	0
SNE / MID-ATLANTIC	24,750	28,367	40,827	46,376	18,436	8,018	9,435	17,575	4,750	2,897	6,334	27,219
OTTER TRAWL	24,747	28,166	40,821	46,237	17,927	8,017	9,435	17,572	4,085	2,889	6,334	27,219
GILLNET	3	200	0	6	24	0	0	0	665	1	0	0
HOOK	0	0	0	0	0	0	0	0	0	0	0	0
OTHER GEAR	0	0	6	132	486	1	0	3	0	7	0	0
ALL AREAS	38,888	89,678	256,794	125,262	108,606	44,046	32,588	29,588	31,227	26,335	318,243	55,951
OTTER TRAWL	38,814	89,260	256,325	124,938	107,666	43,438	32,148	29,383	30,550	26,321	318,164	55,951
GILLNET	19	290	373	30	404	15	440	0	676	6	79	0
HOOK	0	0	0	0	0	0	0	0	0	0	0	0
OTHER GEAR	55	129	96	294	536	592	0	205	1	7	0	0

1. Landings in live weight.

2. Gear data are based on vessel trip reports.

JAN-DEC 1997
LBS
9,345,543
5,137,714
4,021,509
80,687
105,632
26,657
1,117
22,003
7
3,530
9,372,199
5,138,832
4,043,512
80,694
109,162

JAN-DEC 1997
LBS
638
638
0
0
0
546,333
509,084
33,371
3,032
845
3,500
1,870
1,596
0
34
550,471
511,593
34,967
3,032
879

JAN-DEC 1997	
LBS	
	0
	0
	0
	0
	0
	0
	4,797,759
	2,870,258
	1,255,905
	668,525
	3,072
	87,663
	60,043
	24,931
	0
	2,689
	4,885,422
	2,930,301
	1,280,836
	668,525
	5,761

JAN-DEC 1997
LBS
4,046
4,046
0
0
0
8,634,757
8,319,158
230,073
80
85,448
337
337
0
0
0
29,641
29,339
17
0
284
9,038
9,021
4
0
13
8,677,819
8,361,901
230,094
80
85,744

JAN-DEC 1997
LBS
0
0
0
0
0
1,221,199
952,452
258,221
541
9,985
2,754,258
2,734,505
10
35
19,709
54
54
0
0
0
7,753,078
7,611,339
81,327
882
59,530
883
104
779
0
0
11,729,473
11,298,455
340,337
1,457
89,224

JAN-DEC 1997
LBS
1,235
1,235
0
0
0
3,802,087
3,717,560
50,547
29
33,951
29
29
0
0
0
67,672
67,407
54
0
211
40,682
38,248
272
0
2,162
3,911,704
3,824,478
50,872
29
36,324

JAN-DEC 1997
LBS
922,222
919,508
1,433
0
1,281
234,984
233,450
899
0
635
1,157,206
1,152,958
2,332
0
1,915

Multispecies Monitoring Report

1998

Appendix III

Preliminary Prorated Monthly Landings for January through August 1998

APPENDIX TABLE 3.1 - 1998 PRELIMINARY PRORATED COD LANDINGS

	JAN-98	FEB-98	MAR-98	APR-98	MAY-98	JUN-98	JUL-98	AUG-98	JAN-AUG 1998
	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS
NORTH = 464 + 465	5,412	0	2,147	0	375	0	4,794	1,914	14,642
OTTER TRAWL	0	0	0	0	375	0	624	1,914	2,913
GILLNET	5,412	0	2,147	0	0	0	4,170	0	11,729
HOOK	0	0	0	0	0	0	0	0	0
OTHER GEAR	0	0	0	0	0	0	0	0	0
GULF OF MAINE	718,689	761,883	960,836	1,235,952	1,365,620	1,181,853	440,270	338,336	7,003,439
OTTER TRAWL	451,821	510,264	650,280	732,271	997,098	759,992	162,694	100,150	4,364,570
GILLNET	112,003	68,164	177,597	361,189	313,546	396,809	246,048	212,327	1,887,683
HOOK	134,966	107,779	64,455	71,700	24,411	6,937	12,469	8,736	431,454
OTHER GEAR	19,899	75,676	68,505	70,792	30,564	18,115	19,059	17,122	319,731
GEORGES BANK + SNE/MA	789,171	783,731	979,384	2,294,744	2,381,627	1,579,232	1,155,565	1,013,951	10,977,405
OTTER TRAWL	393,733	280,423	497,274	1,856,541	1,858,082	882,628	488,385	541,959	6,799,025
GILLNET	48,498	48,258	49,125	50,099	278,468	343,768	210,186	69,037	1,097,440
HOOK	251,623	257,269	249,891	223,003	128,342	168,876	387,145	322,642	1,988,792
OTHER GEAR	95,318	197,782	183,093	165,100	116,735	183,959	69,850	80,312	1,092,147
ALL AREAS	1,513,272	1,545,614	1,942,367	3,530,696	3,747,621	2,761,085	1,600,629	1,354,200	17,995,485
OTTER TRAWL	845,554	790,687	1,147,553	2,588,812	2,855,555	1,642,621	651,703	644,022	11,166,508
GILLNET	165,913	116,422	228,870	411,288	592,014	740,577	460,404	281,365	2,996,853
HOOK	386,589	365,048	314,346	294,704	152,753	175,813	399,614	331,379	2,420,246
OTHER GEAR	115,216	273,458	251,598	235,892	147,299	202,074	88,908	97,434	1,411,879

1. Landings in live weight.

2. Landings are estimated for Connecticut for the January - August period and New York for March 1998.

3. Gear data are based on vessel trip reports.

APPENDIX TABLE 3.2 - 1998 PRELIMINARY PRORATED HADDOCK LANDINGS

		JAN-98	FEB-98	MAR-98	APR-98	MAY-98	JUN-98	JUL-98	AUG-98	JAN-AUG 1998
		LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS
NORTH = 464 + 465		4	0	0	0	20	0	425	16,094	16,543
	OTTER TRAWL	0	0	0	0	20	0	90	16,094	16,205
	GILLNET	4	0	0	0	0	0	335	0	338
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0
GULF OF MAINE		155,004	130,676	208,608	128,116	53,548	113,634	170,739	138,031	1,098,356
	OTTER TRAWL	89,044	96,867	169,414	35,835	18,990	54,070	109,019	124,787	698,026
	GILLNET	3,959	1,353	3,876	26,140	9,812	37,717	30,714	7,117	120,689
	HOOK	60,735	24,888	33,746	63,659	9,081	5,641	9,002	5,593	212,347
	OTHER GEAR	1,267	7,567	1,572	2,482	15,665	16,206	22,003	532	67,294
GEORGES BANK		389,173	479,812	306,915	205,387	255,072	343,373	446,349	394,876	2,820,957
	OTTER TRAWL	379,006	460,363	293,778	195,042	235,643	315,849	419,138	370,025	2,668,844
	GILLNET	6,736	10,737	8,875	510	14,125	14,151	2,860	19,683	77,678
	HOOK	3,385	8,672	4,262	9,277	2,869	10,865	24,342	5,159	68,830
	OTHER GEAR	46	40	0	559	2,436	2,507	9	9	5,605
GEORGES BANK SOUTH		0	0	0	0	21	833	0	0	854
	OTTER TRAWL	0	0	0	0	21	833	0	0	854
	GILLNET	0	0	0	0	0	0	0	0	0
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0
SNE/MID-ATLANTIC		8	8	0	0	14	128	39	0	197
	OTTER TRAWL	8	8	0	0	14	0	0	0	30
	GILLNET	0	0	0	0	0	128	39	0	167
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0
ALL AREAS		544,189	610,495	515,524	333,503	308,676	457,968	617,552	549,001	3,936,908
	OTTER TRAWL	468,057	557,238	463,192	230,877	254,688	370,752	528,248	510,907	3,383,959
	GILLNET	10,699	12,090	12,752	26,649	23,937	51,997	33,948	26,800	198,872
	HOOK	64,120	33,560	38,008	72,936	11,950	16,507	33,344	10,752	281,177
	OTHER GEAR	1,313	7,607	1,572	3,041	18,101	18,713	22,012	541	72,900

1. Landings in live weight.

2. Landings are estimated for Connecticut for the January - August period and New York for March 1998.

3. Gear data are based on vessel trip reports.

APPENDIX TABLE 3.3 - 1998 PRELIMINARY PRORATED YELLOWTAIL LANDINGS

		JAN-98	FEB-98	MAR-98	APR-98	MAY-98	JUN-98	JUL-98	AUG-98	JAN-AUG 1998
		LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS
NORTH = 464 + 465		0	0	0	0	0	0	0	0	0
	OTTER TRAWL	0	0	0	0	0	0	0	0	0
	GILLNET	0	0	0	0	0	0	0	0	0
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0
GULF OF MAINE		5,983	8,886	5,332	32,671	31,664	35,366	3,592	365	123,859
	OTTER TRAWL	4,937	1,609	3,593	22,111	21,635	24,005	3,457	349	81,696
	GILLNET	1,046	7,277	1,608	10,560	10,026	11,353	135	16	42,021
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	130	0	3	8	0	0	141
CAPE COD		125,344	255,690	263,775	491,771	227,380	135,342	101,137	59,393	1,659,832
	OTTER TRAWL	111,014	82,649	86,414	244,934	150,804	91,236	88,113	58,380	913,543
	GILLNET	11,284	169,286	171,868	233,010	68,971	42,350	12,403	244	709,415
	HOOK	8	0	0	0	0	4	4	9	25
	OTHER GEAR	3,037	3,756	5,494	13,827	7,604	1,753	617	760	36,848
GEORGES BANK		87,724	154,287	188,864	311,311	370,733	215,535	229,772	238,050	1,796,277
	OTTER TRAWL	87,211	153,552	188,043	308,534	354,246	213,850	202,289	235,556	1,743,280
	GILLNET	0	0	0	0	0	0	0	24	24
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	514	735	822	2,777	16,487	1,685	27,483	2,470	52,973
GEORGES BANK SOUTH		0	0	0	0	0	0	0	0	0
	OTTER TRAWL	0	0	0	0	0	0	0	0	0
	GILLNET	0	0	0	0	0	0	0	0	0
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0
SOUTHERN NEW ENGLAND		21,097	41,037	76,232	28,642	31,685	40,590	74,498	86,691	400,472
	OTTER TRAWL	20,596	40,532	75,827	27,754	30,647	38,528	73,928	86,191	394,003
	GILLNET	0	25	0	247	26	0	0	0	297
	HOOK	5	0	0	0	0	0	0	118	123
	OTHER GEAR	496	480	405	641	1,013	2,063	570	382	6,050
S. NEW ENGLAND SOUTH		0	59	0	0	162	0	0	0	220
	OTTER TRAWL	0	59	0	0	162	0	0	0	220
	GILLNET	0	0	0	0	0	0	0	0	0
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0
MID-ATLANTIC	SUM ALL GEAR									
		69,810	52,676	66,180	24,880	12,286	11,442	16,494	30,135	283,904
	OTTER TRAWL	67,860	49,528	62,769	20,266	8,888	6,331	14,506	28,745	258,892
	GILLNET	12	138	12	0	17	0	0	0	179
	HOOK	0	0	0	0	0	0	0	0	0
ALL AREAS	OTHER GEAR	1,938	3,010	3,399	4,615	3,381	5,111	1,989	1,390	24,832
		309,958	512,636	600,383	889,275	673,908	438,275	425,493	414,634	4,264,564
	OTTER TRAWL	291,618	327,929	416,645	623,598	566,380	373,948	382,292	409,222	3,391,634
	GILLNET	12,342	176,726	173,488	243,816	79,040	53,703	12,538	283	751,937
	HOOK	13	0	0	0	0	4	4	128	149
	OTHER GEAR	5,985	7,980	10,250	21,861	28,488	10,620	30,659	5,001	120,844

1. Landings in live weight.

2. Landings are estimated for Connecticut for the January - August period and New York for March 1998.

3. Gear data are based on vessel trip reports.

APPENDIX TABLE 3.4 - 1998 PRELIMINARY PRORATED ATLANTIC POLLOCK LANDINGS

		JAN-98	FEB-98	MAR-98	APR-98	MAY-98	JUN-98	JUL-98	AUG-98	JAN-AUG 1998
		LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS
A450		968,449	791,235	1,427,274	1,210,306	474,776	985,776	1,000,452	1,080,262	7,938,529
	OTTER TRAWL	614,505	636,435	1,010,135	625,194	273,187	467,587	305,072	285,326	4,217,441
	GILLNET	338,069	148,720	411,538	581,949	185,963	505,983	662,118	769,221	3,603,561
	HOOK	9,829	3,309	3,114	548	1,362	1,702	11,679	10,429	41,972
	OTHER GEAR	6,046	2,771	2,486	2,615	14,263	10,505	21,582	15,287	75,555
A600		956	3	23	58	18	179	24,410	0	25,648
	OTTER TRAWL	0	0	0	31	0	0	0	0	31
	GILLNET	0	0	0	0	0	63	24,308	0	24,371
	HOOK	0	1	0	0	0	0	0	0	1
	OTHER GEAR	956	2	23	27	18	116	102	0	1,245
ALL AREAS		969,405	791,238	1,427,297	1,210,364	474,793	985,955	1,024,862	1,080,262	7,964,177
	OTTER TRAWL	614,505	636,435	1,010,135	625,225	273,187	467,587	305,072	285,326	4,217,472
	GILLNET	338,069	148,720	411,538	581,949	185,963	506,046	686,426	769,221	3,627,931
	HOOK	9,829	3,309	3,114	548	1,362	1,702	11,679	10,429	41,973
	OTHER GEAR	7,003	2,773	2,510	2,642	14,281	10,621	21,684	15,287	76,800

1. Landings in live weight.

2. Landings are estimated for Connecticut for the January - August period and New York for March 1998.

3. Gear data are based on vessel trip reports.

APPENDIX TABLE 3.5 - 1998 PRELIMINARY PRORATED REDFISH LANDINGS

		JAN-98	FEB-98	MAR-98	APR-98	MAY-98	JUN-98	JUL-98	AUG-98	JAN-AUG 1998
		LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS
A400		379	0	238	0	113	0	227	2,642	3,599
	OTTER TRAWL	0	0	0	0	113	0	0	2,642	2,756
	GILLNET	379	0	238	0	0	0	227	0	844
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0
A500	SUM ALL GEAR									
		27,970	41,824	86,888	43,692	21,766	42,647	66,395	87,990	419,171
	OTTER TRAWL	26,931	40,623	84,828	42,711	16,759	37,329	50,446	77,411	377,038
	GILLNET	961	1,123	1,510	807	4,886	5,091	10,095	8,974	33,447
	HOOK	79	78	535	157	111	86	875	1,411	3,331
A600	OTHER GEAR	0	0	15	17	10	141	4,978	194	5,355
	SUM ALL GEAR									
		712	102	694	15	0	75	361	0	1,960
	OTTER TRAWL	711	102	198	9	0	75	55	0	1,150
	GILLNET	1	0	0	0	0	0	306	0	307
A600	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	496	7	0	0	0	0	503
	SUM ALL GEAR									
		29,061	41,926	87,820	43,707	21,879	42,722	66,983	90,632	424,730
	OTTER TRAWL	27,642	40,725	85,026	42,720	16,872	37,404	50,501	80,054	380,944
ALL AREAS	GILLNET	1,341	1,123	1,748	807	4,886	5,091	10,628	8,974	34,598
	HOOK	79	78	535	157	111	86	875	1,411	3,331
	OTHER GEAR	0	0	511	24	10	141	4,978	194	5,858
	SUM ALL GEAR									
		29,061	41,926	87,820	43,707	21,879	42,722	66,983	90,632	424,730

1. Landings in live weight.

2. Landings are estimated for Connecticut for the January - August period and New York for March 1998.

3. Gear data are based on vessel trip reports.

APPENDIX TABLE 3.6 - 1998 PRELIMINARY PRORATED WHITE HAKE LANDINGS

		JAN-98	FEB-98	MAR-98	APR-98	MAY-98	JUN-98	JUL-98	AUG-98	JAN-AUG 1998
		LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS
A400		0	0	0	0	2,310	0	21,759	30,769	54,838
	OTTER TRAWL	0	0	0	0	2,310	0	0	30,769	33,079
	GILLNET	0	0	0	0	0	0	21,759	0	21,759
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0
A500		143,848	199,853	250,706	232,505	216,044	552,248	618,525	638,008	2,851,737
	OTTER TRAWL	63,325	105,875	151,616	184,581	73,257	203,682	175,575	235,167	1,193,077
	GILLNET	42,904	59,868	17,849	19,183	73,242	268,717	426,513	393,206	1,301,482
	HOOK	37,521	34,110	81,241	28,736	61,930	79,673	7,292	4,529	335,031
	OTHER GEAR	98	0	0	6	7,615	177	9,145	5,106	22,146
A600		1,650	1,280	230	2,653	309	3,060	23,727	326	33,235
	OTTER TRAWL	1,650	1,175	214	2,652	61	163	87	316	6,317
	GILLNET	0	0	0	0	185	0	23,173	0	23,358
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	104	16	1	63	2,897	467	11	3,559
ALL AREAS		145,498	201,133	250,936	235,158	218,662	555,308	664,011	669,103	2,939,809
	OTTER TRAWL	64,974	107,051	151,830	187,232	75,628	203,844	175,662	266,252	1,232,474
	GILLNET	42,905	59,868	17,849	19,183	73,427	268,717	471,445	393,206	1,346,599
	HOOK	37,521	34,110	81,241	28,736	61,930	79,673	7,292	4,529	335,031
	OTHER GEAR	98	104	16	7	7,678	3,074	9,612	5,117	25,706

1. Landings in live weight.

2. Landings are estimated for Connecticut for the January - August period and New York for March 1998.

3. Gear data are based on vessel trip reports.

APPENDIX TABLE 3.7 - 1998 PRELIMINARY PRORATED AMERICAN PLAICE LANDINGS

		JAN-98	FEB-98	MAR-98	APR-98	MAY-98	JUN-98	JUL-98	AUG-98	JAN-AUG 1998
		LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS
NORTH = 464 + 465		0	0	0	0	317	0	1,556	19,888	21,760
	OTTER TRAWL	0	0	0	0	317	0	1,556	19,888	21,760
	GILLNET	0	0	0	0	0	0	0	0	0
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0
GEORGES BANK		259,254	308,376	445,312	938,160	1,343,926	945,000	710,068	715,162	5,665,259
	OTTER TRAWL	256,310	299,694	422,537	773,983	1,211,781	913,304	698,906	713,188	5,289,703
	GILLNET	541	2,134	14,336	114,850	104,180	20,618	3,764	1,345	261,768
	HOOK	2	0	0	108	216	6	0	11	342
	OTHER GEAR	2,401	6,548	8,439	49,219	27,749	11,072	7,398	620	113,445
GEORGES BANK SOUTH		0	0	0	0	539	12,534	0	0	13,073
	OTTER TRAWL	0	0	0	0	539	12,534	0	0	13,073
	GILLNET	0	0	0	0	0	0	0	0	0
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0
SOUTHERN NEW ENGLAND		300	269	709	5,195	5,458	13,813	8,510	6,571	40,825
	OTTER TRAWL	300	269	709	5,195	5,458	13,813	8,510	6,571	40,825
	GILLNET	0	0	0	0	0	0	0	0	0
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0
MID-ATLANTIC		0	20	693	1,046	5,826	276	128	0	7,988
	OTTER TRAWL	0	20	693	1,017	5,826	276	128	0	7,959
	GILLNET	0	0	0	29	0	0	0	0	29
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0
SUM - ALL AREAS by GEAR		259,554	308,665	446,714	944,401	1,356,066	971,623	720,262	741,621	5,748,905
	OTTER TRAWL	256,611	299,983	423,939	780,194	1,223,921	939,926	709,100	739,646	5,373,320
	GILLNET	541	2,134	14,336	114,879	104,180	20,618	3,764	1,345	261,797
	HOOK	2	0	0	108	216	6	0	11	342
	OTHER GEAR	2,401	6,548	8,439	49,219	27,749	11,072	7,398	620	113,445

1. Landings in live weight.

2. Landings are estimated for Connecticut for the January - August period and New York for March 1998.

3. Gear data are based on vessel trip reports.

APPENDIX TABLE 3.8 - 1998 PRELIMINARY PRORATED WINTER FLOUNDER LANDINGS

		JAN-98	FEB-98	MAR-98	APR-98	MAY-98	JUN-98	JUL-98	AUG-98	JAN-AUG 1998
		LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS
NORTH = 464 + 465		0	0	0	0	234	0	0	0	234
	OTTER TRAWL	0	0	0	0	234	0	0	0	234
	GILLNET	0	0	0	0	0	0	0	0	0
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0
GULF OF MAINE		73,608	50,934	77,238	319,896	111,452	37,853	18,666	10,575	700,222
	OTTER TRAWL	71,942	47,256	49,586	173,660	66,357	25,847	14,715	8,545	457,909
	GILLNET	941	2,755	26,326	144,572	44,044	11,909	3,924	2,010	236,482
	HOOK	3	0	0	48	86	0	0	0	138
	OTHER GEAR	722	923	1,326	1,615	965	97	27	20	5,694
GEORGES BANK		28,051	15,717	75,022	140,894	556,862	293,237	220,762	190,812	1,521,357
	OTTER TRAWL	27,647	14,278	72,484	138,647	550,676	291,798	218,424	188,981	1,502,934
	GILLNET	0	0	0	0	0	0	0	0	0
	HOOK	0	0	0	12	4	16	28	24	84
	OTHER GEAR	404	1,439	2,538	2,234	6,182	1,423	2,309	1,807	18,338
GEORGES BANK SOUTH		391	0	0	0	0	0	0	0	391
	OTTER TRAWL	391	0	0	0	0	0	0	0	391
	GILLNET	0	0	0	0	0	0	0	0	0
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0
SNE / MID-ATLANTIC		67,239	67,292	194,862	331,570	540,300	922,728	1,110,484	1,159,676	4,394,151
	OTTER TRAWL	62,650	61,850	190,447	321,321	502,770	841,980	1,101,211	1,143,841	4,226,069
	GILLNET	1,551	32	23	2,355	4,212	6,974	2,830	180	18,157
	HOOK	21	10	2	71	88	149	159	587	1,088
	OTHER GEAR	3,018	5,400	4,390	7,823	33,231	73,625	6,283	15,069	148,838
S. NEW ENGLAND SOUTH		0	0	0	0	4	0	0	0	4
	OTTER TRAWL	0	0	0	0	4	0	0	0	4
	GILLNET	0	0	0	0	0	0	0	0	0
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0
ALL AREAS		169,289	133,943	347,123	792,359	1,208,852	1,253,818	1,349,911	1,361,064	6,616,360
	OTTER TRAWL	162,629	123,384	312,517	633,628	1,120,041	1,159,625	1,334,350	1,341,367	6,187,541
	GILLNET	2,492	2,788	26,349	146,927	48,255	18,883	6,755	2,190	254,639
	HOOK	24	10	2	132	178	165	188	611	1,309
	OTHER GEAR	4,144	7,762	8,254	11,672	40,378	75,145	8,619	16,896	172,871

1. Landings in live weight.

2. Landings are estimated for Connecticut for the January - August period and New York for March 1998.

3. Gear data are based on vessel trip reports.

APPENDIX TABLE 3.9 - 1998 PRELIMINARY PRORATED WITCH FLOUNDER LANDINGS

		JAN-98	FEB-98	MAR-98	APR-98	MAY-98	JUN-98	JUL-98	AUG-98	JAN-AUG 1998
		LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS
NORTH = 464 + 465		0	0	0	0	143	0	183	1,322	1,648
	OTTER TRAWL	0	0	0	0	143	0	183	1,322	1,648
	GILLNET	0	0	0	0	0	0	0	0	0
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0
GULF OF MAINE/ GEORGES BANK		190,711	293,366	423,417	457,280	491,542	513,394	336,774	317,330	3,023,815
	OTTER TRAWL	189,749	293,220	423,278	452,331	480,002	480,429	328,639	313,223	2,960,871
	GILLNET	870	19	42	1,157	7,710	10,910	3,699	681	25,089
	HOOK	0	0	0	40	14	0	0	0	55
	OTHER GEAR	92	128	97	3,751	3,815	22,055	4,436	3,426	37,800
GEORGES BANK SOUTH		0	0	0	0	42	7,086	0	0	7,128
	OTTER TRAWL	0	0	0	0	42	7,086	0	0	7,128
	GILLNET	0	0	0	0	0	0	0	0	0
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0
SOUTHERN NEW ENGLAND		759	1,307	4,476	4,725	4,857	24,279	24,332	16,464	81,199
	OTTER TRAWL	759	1,307	4,476	4,725	4,839	24,279	24,325	16,464	81,175
	GILLNET	0	0	0	0	0	0	7	0	7
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	18	0	0	0	18
MID-ATLANTIC		5,425	1,114	1,130	3,533	4,004	379	649	476	16,711
	OTTER TRAWL	5,425	1,074	945	2,707	3,385	205	634	476	14,851
	GILLNET	0	0	0	0	0	0	0	0	0
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	40	184	826	618	174	16	0	1,859
ALL AREAS		196,895	295,787	429,023	465,538	500,588	545,138	361,939	335,593	3,130,501
	OTTER TRAWL	195,933	295,601	428,700	459,764	488,412	511,998	353,781	331,486	3,065,674
	GILLNET	870	19	42	1,157	7,710	10,910	3,706	681	25,096
	HOOK	0	0	0	40	14	0	0	0	55
	OTHER GEAR	92	168	281	4,577	4,452	22,230	4,452	3,426	39,677

1. Landings in live weight.

2. Landings are estimated for Connecticut for the January - August period and New York for March 1998.

3. Gear data are based on vessel trip reports.

APPENDIX TABLE 3.10 - 1998 PRELIMINARY PRORATED WINDOWPANE FLOUNDER LANDINGS

	JAN-98	FEB-98	MAR-98	APR-98	MAY-98	JUN-98	JUL-98	AUG-98	JAN-AUG 1998
	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS
GULF of MAINE/ GEORGES BANK	16,872	87,812	279,463	233,730	26,639	23,768	49,332	42,051	759,667
OTTER TRAWL	16,867	87,776	279,432	233,635	25,472	21,940	49,313	42,047	756,483
GILLNET	5	10	0	39	129	27	19	4	232
HOOK	0	0	0	0	0	0	0	0	0
OTHER GEAR	0	26	31	56	1,037	1,801	0	0	2,952
SNE / MID-ATLANTIC	15,538	12,078	29,122	41,835	22,561	9,264	49,378	9,291	189,066
OTTER TRAWL	15,538	12,073	28,890	41,687	22,257	8,971	49,202	9,291	187,908
GILLNET	0	5	1	13	20	0	0	0	38
HOOK	0	0	0	0	0	0	0	0	0
OTHER GEAR	0	0	231	135	284	294	176	0	1,120
ALL AREAS	32,410	99,890	308,584	275,564	49,200	33,032	98,709	51,342	948,733
OTTER TRAWL	32,405	99,849	308,322	275,322	47,729	30,911	98,514	51,339	944,391
GILLNET	5	15	1	51	149	27	19	4	270
HOOK	0	0	0	0	0	0	0	0	0
OTHER GEAR	0	26	262	191	1,321	2,095	176	0	4,071

1. Landings in live weight.

2. Landings are estimated for Connecticut for the January - August period and New York for March 1998.

3. Gear data are based on vessel trip reports.

APPENDIX TABLE 3.2 - 1998 PRELIMINARY PRORATED HADDOCK LANDINGS

		JAN-98	FEB-98	MAR-98	APR-98	MAY-98	JUN-98	JUL-98	AUG-98	JAN-AUG 1998
		LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS
NORTH = 464 + 465		4	0	0	0	20	0	425	16,094	16,543
	OTTER TRAWL	0	0	0	0	20	0	90	16,094	16,205
	GILLNET	4	0	0	0	0	0	335	0	338
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0
GULF OF MAINE		155,004	130,676	208,608	128,116	53,548	113,634	170,739	138,031	1,098,356
	OTTER TRAWL	89,044	96,867	169,414	35,835	18,990	54,070	109,019	124,787	698,026
	GILLNET	3,959	1,353	3,876	26,140	9,812	37,717	30,714	7,117	120,689
	HOOK	60,735	24,888	33,746	63,659	9,081	5,641	9,002	5,593	212,347
	OTHER GEAR	1,267	7,567	1,572	2,482	15,665	16,206	22,003	532	67,294
GEORGES BANK		389,173	479,812	306,915	205,387	255,072	343,373	446,349	394,876	2,820,957
	OTTER TRAWL	379,006	460,363	293,778	195,042	235,643	315,849	419,138	370,025	2,668,844
	GILLNET	6,736	10,737	8,875	510	14,125	14,151	2,860	19,683	77,678
	HOOK	3,385	8,672	4,262	9,277	2,869	10,865	24,342	5,159	68,830
	OTHER GEAR	46	40	0	559	2,436	2,507	9	9	5,605
GEORGES BANK SOUTH		0	0	0	0	21	833	0	0	854
	OTTER TRAWL	0	0	0	0	21	833	0	0	854
	GILLNET	0	0	0	0	0	0	0	0	0
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0
SNE/MID-ATLANTIC		8	8	0	0	14	128	39	0	197
	OTTER TRAWL	8	8	0	0	14	0	0	0	30
	GILLNET	0	0	0	0	0	128	39	0	167
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0
ALL AREAS		544,189	610,495	515,524	333,503	308,676	457,968	617,552	549,001	3,936,908
	OTTER TRAWL	468,057	557,238	463,192	230,877	254,688	370,752	528,248	510,907	3,383,959
	GILLNET	10,699	12,090	12,752	26,649	23,937	51,997	33,948	26,800	198,872
	HOOK	64,120	33,560	38,008	72,936	11,950	16,507	33,344	10,752	281,177
	OTHER GEAR	1,313	7,607	1,572	3,041	18,101	18,713	22,012	541	72,900

1. Landings in live weight.

2. Landings are estimated for Connecticut for the January - August period and New York for March 1998.

3. Gear data are based on vessel trip reports.

APPENDIX TABLE 3.3 - 1998 PRELIMINARY PRORATED YELLOWTAIL LANDINGS

		JAN-98	FEB-98	MAR-98	APR-98	MAY-98	JUN-98	JUL-98	AUG-98	JAN-AUG 1998
		LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS
NORTH = 464 + 465		0	0	0	0	0	0	0	0	0
	OTTER TRAWL	0	0	0	0	0	0	0	0	0
	GILLNET	0	0	0	0	0	0	0	0	0
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0
GULF OF MAINE		5,983	8,886	5,332	32,671	31,664	35,366	3,592	365	123,859
	OTTER TRAWL	4,937	1,609	3,593	22,111	21,635	24,005	3,457	349	81,696
	GILLNET	1,046	7,277	1,608	10,560	10,026	11,353	135	16	42,021
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	130	0	3	8	0	0	141
CAPE COD		125,344	255,690	263,775	491,771	227,380	135,342	101,137	59,393	1,659,832
	OTTER TRAWL	111,014	82,649	86,414	244,934	150,804	91,236	88,113	58,380	913,543
	GILLNET	11,284	169,286	171,868	233,010	68,971	42,350	12,403	244	709,415
	HOOK	8	0	0	0	0	4	4	9	25
	OTHER GEAR	3,037	3,756	5,494	13,827	7,604	1,753	617	760	36,848
GEORGES BANK		87,724	154,287	188,864	311,311	370,733	215,535	229,772	238,050	1,796,277
	OTTER TRAWL	87,211	153,552	188,043	308,534	354,246	213,850	202,289	235,556	1,743,280
	GILLNET	0	0	0	0	0	0	0	24	24
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	514	735	822	2,777	16,487	1,685	27,483	2,470	52,973
GEORGES BANK SOUTH		0	0	0	0	0	0	0	0	0
	OTTER TRAWL	0	0	0	0	0	0	0	0	0
	GILLNET	0	0	0	0	0	0	0	0	0
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0
SOUTHERN NEW ENGLAND		21,097	41,037	76,232	28,642	31,685	40,590	74,498	86,691	400,472
	OTTER TRAWL	20,596	40,532	75,827	27,754	30,647	38,528	73,928	86,191	394,003
	GILLNET	0	25	0	247	26	0	0	0	297
	HOOK	5	0	0	0	0	0	0	118	123
	OTHER GEAR	496	480	405	641	1,013	2,063	570	382	6,050
S. NEW ENGLAND SOUTH		0	59	0	0	162	0	0	0	220
	OTTER TRAWL	0	59	0	0	162	0	0	0	220
	GILLNET	0	0	0	0	0	0	0	0	0
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0
MID-ATLANTIC	SUM ALL GEAR									
		69,810	52,676	66,180	24,880	12,286	11,442	16,494	30,135	283,904
	OTTER TRAWL	67,860	49,528	62,769	20,266	8,888	6,331	14,506	28,745	258,892
	GILLNET	12	138	12	0	17	0	0	0	179
	HOOK	0	0	0	0	0	0	0	0	0
ALL AREAS	OTHER GEAR	1,938	3,010	3,399	4,615	3,381	5,111	1,989	1,390	24,832
		309,958	512,636	600,383	889,275	673,908	438,275	425,493	414,634	4,264,564
	OTTER TRAWL	291,618	327,929	416,645	623,598	566,380	373,948	382,292	409,222	3,391,634
	GILLNET	12,342	176,726	173,488	243,816	79,040	53,703	12,538	283	751,937
	HOOK	13	0	0	0	0	4	4	128	149
	OTHER GEAR	5,985	7,980	10,250	21,861	28,488	10,620	30,659	5,001	120,844

1. Landings in live weight.

2. Landings are estimated for Connecticut for the January - August period and New York for March 1998.

3. Gear data are based on vessel trip reports.

APPENDIX TABLE 3.4 - 1998 PRELIMINARY PRORATED ATLANTIC POLLOCK LANDINGS

		JAN-98	FEB-98	MAR-98	APR-98	MAY-98	JUN-98	JUL-98	AUG-98	JAN-AUG 1998
		LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS
A450		968,449	791,235	1,427,274	1,210,306	474,776	985,776	1,000,452	1,080,262	7,938,529
	OTTER TRAWL	614,505	636,435	1,010,135	625,194	273,187	467,587	305,072	285,326	4,217,441
	GILLNET	338,069	148,720	411,538	581,949	185,963	505,983	662,118	769,221	3,603,561
	HOOK	9,829	3,309	3,114	548	1,362	1,702	11,679	10,429	41,972
	OTHER GEAR	6,046	2,771	2,486	2,615	14,263	10,505	21,582	15,287	75,555
A600		956	3	23	58	18	179	24,410	0	25,648
	OTTER TRAWL	0	0	0	31	0	0	0	0	31
	GILLNET	0	0	0	0	0	63	24,308	0	24,371
	HOOK	0	1	0	0	0	0	0	0	1
	OTHER GEAR	956	2	23	27	18	116	102	0	1,245
ALL AREAS		969,405	791,238	1,427,297	1,210,364	474,793	985,955	1,024,862	1,080,262	7,964,177
	OTTER TRAWL	614,505	636,435	1,010,135	625,225	273,187	467,587	305,072	285,326	4,217,472
	GILLNET	338,069	148,720	411,538	581,949	185,963	506,046	686,426	769,221	3,627,931
	HOOK	9,829	3,309	3,114	548	1,362	1,702	11,679	10,429	41,973
	OTHER GEAR	7,003	2,773	2,510	2,642	14,281	10,621	21,684	15,287	76,800

1. Landings in live weight.

2. Landings are estimated for Connecticut for the January - August period and New York for March 1998.

3. Gear data are based on vessel trip reports.

APPENDIX TABLE 3.5 - 1998 PRELIMINARY PRORATED REDFISH LANDINGS

		JAN-98	FEB-98	MAR-98	APR-98	MAY-98	JUN-98	JUL-98	AUG-98	JAN-AUG 1998
		LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS
A400		379	0	238	0	113	0	227	2,642	3,599
	OTTER TRAWL	0	0	0	0	113	0	0	2,642	2,756
	GILLNET	379	0	238	0	0	0	227	0	844
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0
A500	SUM ALL GEAR	27,970	41,824	86,888	43,692	21,766	42,647	66,395	87,990	419,171
	OTTER TRAWL	26,931	40,623	84,828	42,711	16,759	37,329	50,446	77,411	377,038
	GILLNET	961	1,123	1,510	807	4,886	5,091	10,095	8,974	33,447
	HOOK	79	78	535	157	111	86	875	1,411	3,331
	OTHER GEAR	0	0	15	17	10	141	4,978	194	5,355
A600	SUM ALL GEAR	712	102	694	15	0	75	361	0	1,960
	OTTER TRAWL	711	102	198	9	0	75	55	0	1,150
	GILLNET	1	0	0	0	0	0	306	0	307
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	496	7	0	0	0	0	503
ALL AREAS	SUM ALL GEAR	29,061	41,926	87,820	43,707	21,879	42,722	66,983	90,632	424,730
	OTTER TRAWL	27,642	40,725	85,026	42,720	16,872	37,404	50,501	80,054	380,944
	GILLNET	1,341	1,123	1,748	807	4,886	5,091	10,628	8,974	34,598
	HOOK	79	78	535	157	111	86	875	1,411	3,331
	OTHER GEAR	0	0	511	24	10	141	4,978	194	5,858

1. Landings in live weight.

2. Landings are estimated for Connecticut for the January - August period and New York for March 1998.

3. Gear data are based on vessel trip reports.

APPENDIX TABLE 3.6 - 1998 PRELIMINARY PRORATED WHITE HAKE LANDINGS

		JAN-98	FEB-98	MAR-98	APR-98	MAY-98	JUN-98	JUL-98	AUG-98	JAN-AUG 1998
		LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS
A400		0	0	0	0	2,310	0	21,759	30,769	54,838
	OTTER TRAWL	0	0	0	0	2,310	0	0	30,769	33,079
	GILLNET	0	0	0	0	0	0	21,759	0	21,759
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0
A500		143,848	199,853	250,706	232,505	216,044	552,248	618,525	638,008	2,851,737
	OTTER TRAWL	63,325	105,875	151,616	184,581	73,257	203,682	175,575	235,167	1,193,077
	GILLNET	42,904	59,868	17,849	19,183	73,242	268,717	426,513	393,206	1,301,482
	HOOK	37,521	34,110	81,241	28,736	61,930	79,673	7,292	4,529	335,031
	OTHER GEAR	98	0	0	6	7,615	177	9,145	5,106	22,146
A600		1,650	1,280	230	2,653	309	3,060	23,727	326	33,235
	OTTER TRAWL	1,650	1,175	214	2,652	61	163	87	316	6,317
	GILLNET	0	0	0	0	185	0	23,173	0	23,358
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	104	16	1	63	2,897	467	11	3,559
ALL AREAS		145,498	201,133	250,936	235,158	218,662	555,308	664,011	669,103	2,939,809
	OTTER TRAWL	64,974	107,051	151,830	187,232	75,628	203,844	175,662	266,252	1,232,474
	GILLNET	42,905	59,868	17,849	19,183	73,427	268,717	471,445	393,206	1,346,599
	HOOK	37,521	34,110	81,241	28,736	61,930	79,673	7,292	4,529	335,031
	OTHER GEAR	98	104	16	7	7,678	3,074	9,612	5,117	25,706

1. Landings in live weight.

2. Landings are estimated for Connecticut for the January - August period and New York for March 1998.

3. Gear data are based on vessel trip reports.

APPENDIX TABLE 3.7 - 1998 PRELIMINARY PRORATED AMERICAN PLAICE LANDINGS

		JAN-98	FEB-98	MAR-98	APR-98	MAY-98	JUN-98	JUL-98	AUG-98	JAN-AUG 1998
		LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS
NORTH = 464 + 465		0	0	0	0	317	0	1,556	19,888	21,760
	OTTER TRAWL	0	0	0	0	317	0	1,556	19,888	21,760
	GILLNET	0	0	0	0	0	0	0	0	0
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0
GEORGES BANK		259,254	308,376	445,312	938,160	1,343,926	945,000	710,068	715,162	5,665,259
	OTTER TRAWL	256,310	299,694	422,537	773,983	1,211,781	913,304	698,906	713,188	5,289,703
	GILLNET	541	2,134	14,336	114,850	104,180	20,618	3,764	1,345	261,768
	HOOK	2	0	0	108	216	6	0	11	342
	OTHER GEAR	2,401	6,548	8,439	49,219	27,749	11,072	7,398	620	113,445
GEORGES BANK SOUTH		0	0	0	0	539	12,534	0	0	13,073
	OTTER TRAWL	0	0	0	0	539	12,534	0	0	13,073
	GILLNET	0	0	0	0	0	0	0	0	0
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0
SOUTHERN NEW ENGLAND		300	269	709	5,195	5,458	13,813	8,510	6,571	40,825
	OTTER TRAWL	300	269	709	5,195	5,458	13,813	8,510	6,571	40,825
	GILLNET	0	0	0	0	0	0	0	0	0
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0
MID-ATLANTIC		0	20	693	1,046	5,826	276	128	0	7,988
	OTTER TRAWL	0	20	693	1,017	5,826	276	128	0	7,959
	GILLNET	0	0	0	29	0	0	0	0	29
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0
SUM - ALL AREAS by GEAR		259,554	308,665	446,714	944,401	1,356,066	971,623	720,262	741,621	5,748,905
	OTTER TRAWL	256,611	299,983	423,939	780,194	1,223,921	939,926	709,100	739,646	5,373,320
	GILLNET	541	2,134	14,336	114,879	104,180	20,618	3,764	1,345	261,797
	HOOK	2	0	0	108	216	6	0	11	342
	OTHER GEAR	2,401	6,548	8,439	49,219	27,749	11,072	7,398	620	113,445

1. Landings in live weight.

2. Landings are estimated for Connecticut for the January - August period and New York for March 1998.

3. Gear data are based on vessel trip reports.

APPENDIX TABLE 3.8 - 1998 PRELIMINARY PRORATED WINTER FLOUNDER LANDINGS

		JAN-98	FEB-98	MAR-98	APR-98	MAY-98	JUN-98	JUL-98	AUG-98	JAN-AUG 1998
		LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS
NORTH = 464 + 465		0	0	0	0	234	0	0	0	234
	OTTER TRAWL	0	0	0	0	234	0	0	0	234
	GILLNET	0	0	0	0	0	0	0	0	0
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0
GULF OF MAINE		73,608	50,934	77,238	319,896	111,452	37,853	18,666	10,575	700,222
	OTTER TRAWL	71,942	47,256	49,586	173,660	66,357	25,847	14,715	8,545	457,909
	GILLNET	941	2,755	26,326	144,572	44,044	11,909	3,924	2,010	236,482
	HOOK	3	0	0	48	86	0	0	0	138
	OTHER GEAR	722	923	1,326	1,615	965	97	27	20	5,694
GEORGES BANK		28,051	15,717	75,022	140,894	556,862	293,237	220,762	190,812	1,521,357
	OTTER TRAWL	27,647	14,278	72,484	138,647	550,676	291,798	218,424	188,981	1,502,934
	GILLNET	0	0	0	0	0	0	0	0	0
	HOOK	0	0	0	12	4	16	28	24	84
	OTHER GEAR	404	1,439	2,538	2,234	6,182	1,423	2,309	1,807	18,338
GEORGES BANK SOUTH		391	0	0	0	0	0	0	0	391
	OTTER TRAWL	391	0	0	0	0	0	0	0	391
	GILLNET	0	0	0	0	0	0	0	0	0
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0
SNE / MID-ATLANTIC		67,239	67,292	194,862	331,570	540,300	922,728	1,110,484	1,159,676	4,394,151
	OTTER TRAWL	62,650	61,850	190,447	321,321	502,770	841,980	1,101,211	1,143,841	4,226,069
	GILLNET	1,551	32	23	2,355	4,212	6,974	2,830	180	18,157
	HOOK	21	10	2	71	88	149	159	587	1,088
	OTHER GEAR	3,018	5,400	4,390	7,823	33,231	73,625	6,283	15,069	148,838
S. NEW ENGLAND SOUTH		0	0	0	0	4	0	0	0	4
	OTTER TRAWL	0	0	0	0	4	0	0	0	4
	GILLNET	0	0	0	0	0	0	0	0	0
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0
ALL AREAS		169,289	133,943	347,123	792,359	1,208,852	1,253,818	1,349,911	1,361,064	6,616,360
	OTTER TRAWL	162,629	123,384	312,517	633,628	1,120,041	1,159,625	1,334,350	1,341,367	6,187,541
	GILLNET	2,492	2,788	26,349	146,927	48,255	18,883	6,755	2,190	254,639
	HOOK	24	10	2	132	178	165	188	611	1,309
	OTHER GEAR	4,144	7,762	8,254	11,672	40,378	75,145	8,619	16,896	172,871

1. Landings in live weight.

2. Landings are estimated for Connecticut for the January - August period and New York for March 1998.

3. Gear data are based on vessel trip reports.

APPENDIX TABLE 3.9 - 1998 PRELIMINARY PRORATED WITCH FLOUNDER LANDINGS

		JAN-98	FEB-98	MAR-98	APR-98	MAY-98	JUN-98	JUL-98	AUG-98	JAN-AUG 1998
		LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS
NORTH = 464 + 465		0	0	0	0	143	0	183	1,322	1,648
	OTTER TRAWL	0	0	0	0	143	0	183	1,322	1,648
	GILLNET	0	0	0	0	0	0	0	0	0
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0
GULF OF MAINE/ GEORGES BANK		190,711	293,366	423,417	457,280	491,542	513,394	336,774	317,330	3,023,815
	OTTER TRAWL	189,749	293,220	423,278	452,331	480,002	480,429	328,639	313,223	2,960,871
	GILLNET	870	19	42	1,157	7,710	10,910	3,699	681	25,089
	HOOK	0	0	0	40	14	0	0	0	55
	OTHER GEAR	92	128	97	3,751	3,815	22,055	4,436	3,426	37,800
GEORGES BANK SOUTH		0	0	0	0	42	7,086	0	0	7,128
	OTTER TRAWL	0	0	0	0	42	7,086	0	0	7,128
	GILLNET	0	0	0	0	0	0	0	0	0
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	0	0	0	0	0
SOUTHERN NEW ENGLAND		759	1,307	4,476	4,725	4,857	24,279	24,332	16,464	81,199
	OTTER TRAWL	759	1,307	4,476	4,725	4,839	24,279	24,325	16,464	81,175
	GILLNET	0	0	0	0	0	0	7	0	7
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	0	0	0	18	0	0	0	18
MID-ATLANTIC		5,425	1,114	1,130	3,533	4,004	379	649	476	16,711
	OTTER TRAWL	5,425	1,074	945	2,707	3,385	205	634	476	14,851
	GILLNET	0	0	0	0	0	0	0	0	0
	HOOK	0	0	0	0	0	0	0	0	0
	OTHER GEAR	0	40	184	826	618	174	16	0	1,859
ALL AREAS		196,895	295,787	429,023	465,538	500,588	545,138	361,939	335,593	3,130,501
	OTTER TRAWL	195,933	295,601	428,700	459,764	488,412	511,998	353,781	331,486	3,065,674
	GILLNET	870	19	42	1,157	7,710	10,910	3,706	681	25,096
	HOOK	0	0	0	40	14	0	0	0	55
	OTHER GEAR	92	168	281	4,577	4,452	22,230	4,452	3,426	39,677

1. Landings in live weight.

2. Landings are estimated for Connecticut for the January - August period and New York for March 1998.

3. Gear data are based on vessel trip reports.

APPENDIX TABLE 3.10 - 1998 PRELIMINARY PRORATED WINDOWPANE FLOUNDER LANDINGS

	JAN-98	FEB-98	MAR-98	APR-98	MAY-98	JUN-98	JUL-98	AUG-98	JAN-AUG 1998
	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS
GULF of MAINE/ GEORGES BANK	16,872	87,812	279,463	233,730	26,639	23,768	49,332	42,051	759,667
OTTER TRAWL	16,867	87,776	279,432	233,635	25,472	21,940	49,313	42,047	756,483
GILLNET	5	10	0	39	129	27	19	4	232
HOOK	0	0	0	0	0	0	0	0	0
OTHER GEAR	0	26	31	56	1,037	1,801	0	0	2,952
SNE / MID-ATLANTIC	15,538	12,078	29,122	41,835	22,561	9,264	49,378	9,291	189,066
OTTER TRAWL	15,538	12,073	28,890	41,687	22,257	8,971	49,202	9,291	187,908
GILLNET	0	5	1	13	20	0	0	0	38
HOOK	0	0	0	0	0	0	0	0	0
OTHER GEAR	0	0	231	135	284	294	176	0	1,120
ALL AREAS	32,410	99,890	308,584	275,564	49,200	33,032	98,709	51,342	948,733
OTTER TRAWL	32,405	99,849	308,322	275,322	47,729	30,911	98,514	51,339	944,391
GILLNET	5	15	1	51	149	27	19	4	270
HOOK	0	0	0	0	0	0	0	0	0
OTHER GEAR	0	26	262	191	1,321	2,095	176	0	4,071

1. Landings in live weight.

2. Landings are estimated for Connecticut for the January - August period and New York for March 1998.

3. Gear data are based on vessel trip reports.

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Appendix IV

Comparison of 1997 MSMC Projection Results to SARC 27 Results

Appendix IV. Comparison of 1997 MSMC projection results to SARC 27 results.

Overall, the MSMC's 1997 conclusions relative to the status of the five major groundfish stocks are consistent with the SARC 27 results (Appendix figures 4.1-4.5): Fishing mortality significantly declined for Georges Bank cod, haddock, and the two yellowtail stocks but remained high for Gulf of Maine cod. Fishing mortality rates for Georges Bank haddock and Southern New England yellowtail were projected to be below the $F_{0.1}$ targets in 1996. Fishing mortality was overestimated for Georges Bank cod and Georges Bank yellowtail. Similarly, trends and magnitude of spawning stock biomass were generally well estimated. The only outlier was spawning stock biomass for Georges Bank Yellowtail, which was underestimated by the MSMC.

Several different factors contributed to differences between MSMC projection results and SARC 24 assessments. Major factors driving these differences include: better estimation of terminal year starting stock size and recruitment estimates used in the 1996 projections, differences in SARC 18 versus SARC 24 assessment configuration, and use of actual landings versus estimated landings. Other factors influencing the projection results to a lesser degree are changes in the partial recruitment, maturity ogives, mean catch weight and stock weight vectors.

Georges Bank cod

The VPA for Georges Bank cod was an update of the SARC 24 assessment. The 1998 MSMC projections were made from 1997 terminal year populations. The 10,350 metric ton catch used in the MSMC projections was very close to the actual 1997 of 10,435 (Appendix figure 4.1).

Shifts in either the catch or stock weights used in the two assessments were not detectable. The exploitation pattern from SARC 27 was similar to the one used in the projections.

Estimates of recent recruitment were similar for SARC 24 and SARC 27. However, the terminal year estimate of the 1996 cohort was overestimated by the SARC 24 VPA compared with SARC 27 results, but this does not impact the projection because they are only partially recruited as age two fish.

The MSMC's projected fishing mortality of 0.24 agrees well with the SARC 27 1997 estimate of 0.26. The 1997 spawning stock biomass estimated by the MSMC (47.0 metric tons) is significantly higher than SARC 27 VPA (36.0 metric tons). This difference can be accounted for by the use of an updated maturity ogive in SARC 27 assessment.

The MSMC projected a total TTAC of 7,692 based on $F_{0.1}=0.17$. The MSMC assumed that the Canadian quota would be 3,000 metric tons and estimated the US TTAC as 4,692. SARC 27 assessment indicated that the total TTAC would be 6,730. However, the MSMC overestimated Canada's 1998 quota by 1,100 mts so that the 1998 US TTAC should have been 4,830 metric tons, which is similar to the MSMC project TTAC of 4,692 metric tons.

With the exception of the overestimate of the 1997 spawning stock biomass, conclusions drawn from the MSMC 1997 Georges Bank cod projection agree reasonably well with those drawn from the SARC 27 VPA. MSMC's estimates of US TTAC for Georges Bank cod will

always contain some uncertainty because the Canadian Quota for the upcoming year is not available at the time of the MSMC report.

Appendix Table 1.0. Comparison of MSMC projections and SARC 27 results for Georges Bank cod.

	MSMC 1997 projection	SARC 27 estimate
1997 Landings (metric tons)	10,350	10,435
1997 Discards (metric tons)	Not estimated	Not estimated
1997 Total Catch (metric tons)	10,350	10,435
1997 Fishing mortality	0.24	0.26
1997 SSB (metric tons)	47,031	35,915
1998 Total TAC (metric tons)	7,692	6,730
1998 Canadian quota (metric tons)	3,000	1,900
1998 US target TAC (metric tons)	4,692	4,830

Georges Bank Haddock

The SARC 27 VPA was an update of the SARC 24 Assessment. The 1997 MSMC results were projected from 1997 terminal year population estimates. The projected 1997 catch of 4,412 metric tons including discards was similar to the SARC 27 estimate of 4,254 metric tons in 1997 (Appendix figure 4.2). The exploitation pattern used in the projections was similar to exploitation in the SARC 27 assessment.

Recruitment was slightly underestimated in the MSMC projections compared to the SARC 27 assessment. The projected 1997 fishing mortality rate (0.14) was slightly overestimated compared to the SARC 27 mortality rate of 0.11. The projected 1997 spawning stock biomass estimate of 40,383 metric tons was similar to the SARC 27 estimate of 40,472 metric tons.

The MSMC projected a total TTAC of 7,997 metric tons and assumed the Canadian quota to be 3,200 metric tons. The MSMC estimated the US TTAC at 4,797 metric tons. Based on the SARC 27 assessment, the total TTAC was estimated at 9,030 metric tons. The actual 1998 Canadian quota was 4,000 metric tons. Thus the US TTAC should have been 5030 (excluding discards). Thus, the MSMC underestimation of the total TTAC was countered by the underestimate of the Canadian quota.

Overall, conclusions about stock status drawn from the 1997 Georges Bank haddock projection agree well with those drawn from the SARC 27 assessment. MSMC's estimates of US TTAC will always contain uncertainty because the Canadian Quota for the upcoming year is not available at the time of the MSMC report.

Appendix Table 2.0. Comparison of MSMC projections and SARC 27 results for Georges Bank haddock.

	MSMC 1997 projection	SARC 27 estimate
1997 Landings (metric tons)	4,024	3,627
1997 Discards (metric tons)	388	626
1997 Total catch (metric tons)	4,412	4,253
1997 Fishing mortality	0.24	0.26
1997 SSB (metric tons)	47,031	35,915
1998 Total TAC (metric tons)	8,781	10,282
1998 Discards (metric tons)	784	1,252
1998 Canadian quota (metric tons)	3,200	4,000
1998 US target TAC (metric tons)	4,797	5,030

Georges Bank yellowtail

The SARC 27 assessment was an update of the SARC 24. The MSMC estimate of 1,673 was slightly under the SARC 27 estimate of 1,834. The MSMC projected the 1997 fishing mortality of 0.15 was similar to the SARC 27 fishing mortality rate of 0.13.

The 1997 projected fishing mortality of 0.15 was close to the SARC 27 estimate of 0.13. The projected spawning stock biomass of 13,130 metric tons was less than the SARC 27 estimate of 15,735.

The MSMC estimated the total TTAC of 2,990 and, with an assumed Canadian quota of 800 metric tons, estimated the US TTAC as 2,145 metric tons. SARC 27 results indicate a total TAC of 3,296 and the actual 1998 Canadian quota was 1,200 metric tons. The difference in total TAC estimates is mainly due to SARC 24's underestimate of recruitment. Based on SARC 27 results, the US TTAC is estimated to be 2,044. Thus, the MSMC's slight underestimation of the Total TTAC was balanced by an underestimate of the 1998 Canadian Quota. Conclusions about Georges Bank yellowtail stock status were similar between the 1997 MSMC projections and SARC 27 results.

Appendix Table 3.0. Comparison of MSMC projections and SARC 27 results for Georges Bank yellowtail.

	MSMC 1997 projection	SARC 27 estimate
1997 landings (metric tons)	1,644	1,776
1997 discards (metric tons)	29	58
1997 total catch (metric tons)	1,673	1,834
1997 Fishing mortality	0.15	0.13
1997 SSB (metric tons)	13,130	15,735
1998 Total TAC (metric tons)	2,990	3,296
1998 Discards (metric tons)	45	52
1998 Canadian quota (metric tons)	800	1,200
1998 US target TAC (metric tons)	2,145	2,044

Southern New England yellowtail

The SARC 27 assessment was an update of the SARC 24 assessment. The 1997 catch was overestimated in the 1997 MSMC report compared to SARC 27 estimate (Appendix Table 4.0, Appendix figure 4.4).

The MSMC projection of 1997 spawning stock biomass (5,261 metric tons) was higher than the SARC 27 estimate of 4,235 metric tons. In general, the SARC 24 estimates of spawning stock biomass (1993-1996) were higher than SARC 27 estimates. The MSMC's projected 1997 fishing mortality rate of 0.14 was close to SARC 27 estimate of 0.13. However, the SARC 24 1996 estimate of F (0.12) was much less than the SARC 27's 1996 estimate of 0.42. This underestimation of F in 1996 is cause for concern. The next assessment update should include a retrospective analysis.

The MSMC estimated the total TAC as 973 metric tons. Given an estimate of 159 metric tons of discard, the MSMC estimated the US TTAC at 814 tons. Based on SARC 27 results, the total TTAC should be 869 metric tons minus 62 metric tons of discards to give an estimated US TTAC of 807. Conclusions about Southern New England yellowtail stock status were similar between the 1997 MSMC projections and SARC 27 results.

Appendix Table 4.0. Comparison of MSMC projections and SARC 27 results for Southern New England yellowtail.

	MSMC 1997 projection	SARC 27 estimate
1997 landings (metric tons)	327	231
1997 discards (metric tons)	68	17
1997 total catch (metric tons)	395	248
1997 Fishing mortality	0.14	0.13
1997 SSB (metric tons)	5,261	4,235
1998 Total TAC (metric tons)	973	869
1998 Discards (metric tons)	159	62
1998 US target TAC (metric tons)	814	807

Gulf of Maine cod

The SARC 27 assessment of Gulf of Maine cod was an update of the SARC 24 assessment. The MSMC 1997 projected catch was 12% less than the SARC 27 estimate of 1997 landings. In 1997, the MSMC chose a conservative estimate of landings to account for Framework 20 measures that had not been fully implemented at the time of the projections.

SARC 24 recruitment estimates were similar to SARC 27 estimates with the exception of the 1995 year class that was overestimated in SARC 24. The MSMC's projected fishing mortality rate of 0.78 in 1997 was close to the SARC 27 estimate of 0.75. The MSMC projected spawning stock biomass estimate of 7,085 metric tons was less than the SARC 27 estimate of 8,628 metric tons. This can be attributed to the use of an updated maturity ogive in the SARC 27 assessment. The new maturity ogive has cod maturing at an earlier age.

The MSMC projected TTAC of 1,783 metric tons is close to the SARC 27 estimate of 1,793 metric tons. Overall, conclusions on stock status drawn from the MSMC projections closely agree with those from the SARC 27 report.

Appendix Table 5.0. Comparison of MSMC projections and SARC 27 results for Gulf of Maine cod.

	MSMC 1997 projection	SARC 27 estimate
1997 landings (metric tons)	4,812	5,421
1997 discards (metric tons)	Not estimated	Not estimated
1997 total catch (metric tons)	4,812	5,421
1997 Fishing mortality	0.78	0.75
1997 SSB (metric tons)	7,085	8,628
1998 Total TAC (metric tons)	1,783	1,790
1998 Discards (metric tons)	Not estimated	Not estimated
1998 US target TAC (metric tons)	1,783	1,790

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Appendix V

Analysis of the Gulf of Maine Alliance Proposals

The MSMC examined the “New” Alliance proposal entitled *Gulf of Maine Fishermen’s Alliance: Gulf of Maine cod proposal for Annual Adjustment* (Dated: Received Nov 10, 1998). The MSMC also examined the “old” Alliance proposal entitled *Gulf of Maine fishermen’s Alliance*.

1.0 Area closure analyses

Area closures were analyzed using the methodology described in Chapter 8 of the MSMC report. Note that the results for all closures assume an expected 7.4% reduction in DAS in fishing year 1999. Results are shown in Appendix Table 6.6. All of the various Alliance options gave similar results for a given trip limit. None of the options produced expected landings consistent with meeting either $F_{\max}$ or $F_{0.1}$ at trip limits equal to or greater than 300 lbs.

All of the options would achieve the $F_{\max}$ objective at a 200 lbs. trip limit and $F_{0.1}$ objective at 100 lbs. However these results assume that discarding would not increase. The MSMC did not recommend lowering the trip limit to 100 lbs. because of the potential increase in discarding.

2.0 Auxiliary measures

Several aspects of the proposal did not lend themselves to quantitative analyses: creating new permit categories, limiting mobile gear rollers and altering minimum block for the mandatory 120 days from 7 day blocks to 1.5 day blocks, creating optional gillnet day boat fishery with 50 groundfish nets. For example, the MSMC could not analyze the effects of creating two new permit categories for 1) Gulf of Maine Inshore and Offshore and 2) Gulf of Maine offshore and trip limit exemption area. The MSMC can not predict fishermen’s behavior and can not estimate the shifts in effort that would occur with this proposal.

Crediting of steaming time against DAS usage will have the effect of increasing DAS available for fishing and appears to increase mortality. The MSMC recognized that this option was intended to move effort offshore, however, this measure would only reduce effort if this effort were not displaced on “offshore Gulf of Maine cod”. The MSMC notes that fishing mortality on Georges Bank cod needs to be reduced 21% to achieve the $F_{0.1}$ target and this stock should not attract more effort. Removing set days from the DAS clock will also have the effect of increasing DAS available for fishing activities and will likely contribute to increase mortality.

Appendix Table 6.1. Alliance proposal A:700 lbs. trip limit, no year round closures.

Alliance proposal A	123, 124 (half block)	Jan-April
Alliance proposal A	129	June
Alliance proposal A	129 Northern half of block	July-September
Alliance proposal A	132 (half block)	Dec-April
Alliance proposal A	139 (half block)	June-August
Inshore I	124, 125	March
Inshore II	131, 132, 133	April
Inshore III	138, 139, 140	May
Inshore IV	145, 146, 147, 152	June
Cashes Ledge	129	June

Appendix Table 6.2. The old Alliance “B” proposal with 700 lbs. trip limit and no western GOM closure.

Inshore I	124, 125	March
Inshore II	131, 132, 133	April
Inshore III	138, 139, 140	May
Inshore IV	145, 146, 147, 152	June
Offshore year-round	119, 127, 128, 129	Year round

Appendix Table 6.3. New Alliance proposal B: Year 1 includes 700 lbs. trip limit.

Inshore I	124, 125	March
Inshore II	131, 132, 133	April
Inshore III	138, 139, 140	May
Inshore IV	145, 146, 147, 152	June
Cashes Ledge	129	June
Western Gulf of Maine	123, 124, 131, 132, 138, 139 (all partial blocks)	Year round

Appendix Table 6.4. New Alliance proposal “B”: Year 2 includes 700 lbs. trip limit, with no year round closure in Western Gulf of Maine.

Inshore I	118, 119, 120, 121, 122, 123, 124, 125	March
Inshore II	127,128, 129, 130,131, 132, 133,	April
Inshore III	134, 135, 136, 137, 138, 139, 140	May
Inshore IV	142,143,145, 146, 147, 152	June
Offshore closure	127, 128, 129, 119	Year-round

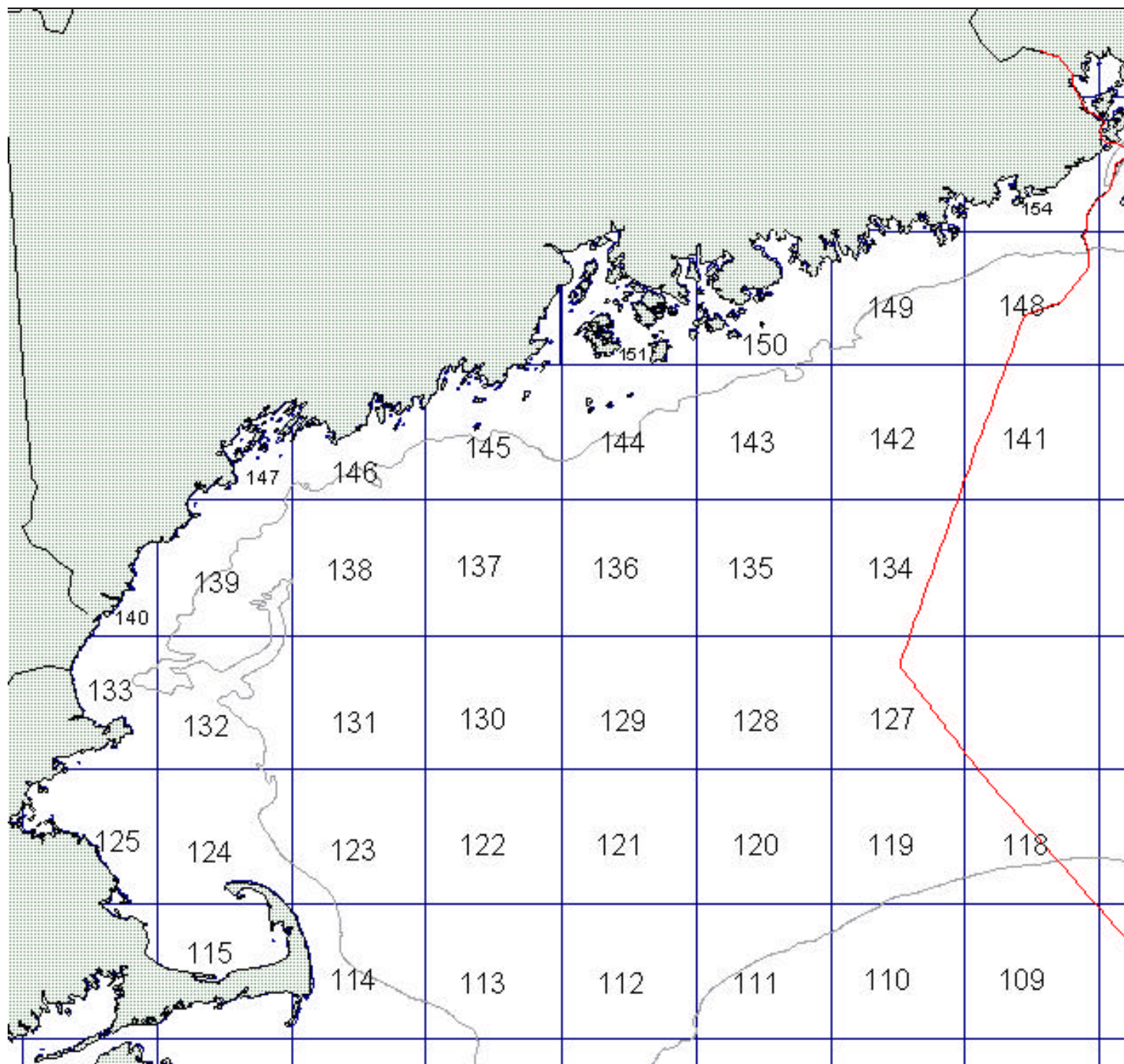
Appendix Table 6.5. New Alliance proposal “B”: Year 3 includes 700 lbs. trip limit with no western Gulf of Maine year-round closure.

Inshore I	118, 119, 120, 121, 122, 123, 124, 125	March
Inshore II	127,128, 129, 130,131, 132, 133,	April
Inshore III	134, 135, 136, 137, 138, 139, 140	May
Inshore IV	142, 143, 144, 145, 146, 147, 152	June
Cashes Ledge	129	June
Stellwagen East to offshore	118, 119, 120, 121,122, 123, 127	Year round

Appendix Table 6.6. Expected fishing year 1999 landings of Gulf of Maine cod for various Alliance proposals. Target landings are 782 metric tons for $F_{0.1}$ and 1,340 metric tons for F_{max} . Years 2 and 3 of the new Alliance B are modeled for fishing year 1999.

Alliance option	Trip Limit per Day						
	700	600	500	400	300	200	100
Old Alliance A	2,303	2,143	1,951	1,718	1,435	1,086	642
Old Alliance B	2,410	2,243	2,043	1,799	1,502	1,136	672
New Alliance B, Year 1	2,253	2,096	1,909	1,681	1,404	1,062	628
New Alliance B, Year 2	2,444	2,273	2,071	1,823	1,523	1,152	681
New Alliance B, Year 3	2,468	2,297	2,092	1,842	1,539	1,164	688

Appendix Figure 5.1. Gulf of Maine divided into thirty minute squares used in describing area closures



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Appendix VI

The Gulf of Maine Cod Fishery

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

Appendix Table 6.1. Number of Vessels* in the Gulf of Maine cod fishery by gear sector and vessel class.

May 97 - April 98 Fishing Year

GEAR SECTOR & VESSEL CLASS	MAINE			NEW HAMPSHIRE	MASSACHUSETTS					RHODE ISLAND			OTHER NORTH EAST	TOTAL		
	Portland	Other	Total		Boston	Gloucester	New Bedford	Other	Total	Pt. Judith	Other	Total		#Vessels*	% of total	
Otter Trawl Sector:																
	<51 GRT	33	73	106	36	7	40	1	57	105	0	0	0	1	248	30.02%
	51-150 GRT	44	16	60	1	9	35	24	13	81	2	1	3	0	145	17.55%
	>150 GRT	8	0	8	0	7	12	4	0	23	0	0	0	0	31	3.75%
	SUM	85	89	174	37	23	87	29	70	209	2	1	3	1	424	51.33%
Gillnet Sector:																
	<51 GRT	13	14	27	26	0	44	1	42	87	0	0	0	1	141	17.07%
	51-150 GRT	1	0	1	1	0	2	0	0	2	0	0	0	0	4	0.48%
	>150 GRT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
	SUM	14	14	28	27	0	46	1	42	89	0	0	0	1	145	17.55%
Hook Sector:																
	<51 GRT	6	7	13	1	4	21	1	31	57	0	0	0	0	71	8.60%
	51-150 GRT	2	0	2	0	0	0	0	1	1	0	0	0	0	3	0.36%
	>150 GRT	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0.12%
	SUM	9	7	16	1	4	21	1	32	58	0	0	0	0	75	9.08%
Other Gears:																
	<51 GRT	3	27	30	15	1	44	0	86	131	0	0	0	0	176	21.31%
	51-150 GRT	0	1	1	0	0	1	1	2	4	0	0	0	0	5	0.61%
	>150 GRT	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0.12%
	SUM	3	28	31	15	1	45	2	88	136	0	0	0	0	182	22.03%
Total of All Gear Sectors:																
	<51 GRT	55	121	176	78	12	149	3	216	380	0	0	0	2	636	77.00%
	51-150 GRT	47	17	64	2	9	38	25	16	88	2	1	3	0	157	19.01%
	>150 GRT	9	0	9	0	7	12	5	0	24	0	0	0	0	33	4.00%
	SUM	111	138	249	80	28	199	33	232	492	2	1	3	2	826	100.00%

Source: Fishing 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 677 vessels for the 97-98 fishing year.

Appendix Table 6.2. Number of Vessels* in the Gulf of Maine cod fishery by gear sector and vessel class.

May 96 - April 97 Fishing Year

GEAR SECTOR & VESSEL CLASS		MAINE			NEW HAMPSHIRE	MASSACHUSETTS					RHODE ISLAND			OTHER NORTH EAST	TOTAL	
		Portland	Other	Total		Boston	Gloucester	New Bedford	Other	Total	Pt. Judith	Other	Total		#Vessels*	% of total
Otter Trawl Sector:																
	<51 GRT	28	67	95	37	11	38	2	59	110	0	0	0	1	243	26.50%
	51-150 GRT	38	17	55	2	13	29	26	17	85	1	2	3	0	145	15.81%
	>150 GRT	15	0	15	0	10	10	4	0	24	0	1	1	0	40	4.36%
	SUM	81	84	165	39	34	77	32	76	219	1	3	4	1	428	46.67%
Gillnet Sector:																
	<51 GRT	20	16	36	23	0	48	0	56	104	0	1	1	2	166	18.10%
	51-150 GRT	3	0	3	1	0	1	0	0	1	0	0	0	0	5	0.55%
	>150 GRT	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0.11%
	SUM	23	16	39	24	0	49	1	56	106	0	1	1	2	172	18.76%
Hook Sector:																
	<51 GRT	7	8	15	2	7	27	1	34	69	0	0	0	0	86	9.38%
	51-150 GRT	1	0	1	0	0	1	0	1	2	0	0	0	0	3	0.33%
	>150 GRT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
	SUM	8	8	16	2	7	28	1	35	71	0	0	0	0	89	9.71%
Other Gears:																
	<51 GRT	8	32	40	19	2	49	1	101	153	0	0	0	1	213	23.23%
	51-150 GRT	1	3	4	1	0	4	0	3	7	0	0	0	1	13	1.42%
	>150 GRT	1	0	1	0	0	0	1	0	1	0	0	0	0	2	0.22%
	SUM	10	35	45	20	2	53	2	104	161	0	0	0	2	228	24.86%
Total of All Gear Sectors:																
	<51 GRT	63	123	186	81	20	162	4	250	436	0	1	1	4	708	77.21%
	51-150 GRT	43	20	63	4	13	35	26	21	95	1	2	3	1	166	18.10%
	>150 GRT	16	0	16	0	10	10	6	0	26	0	1	1	0	43	4.69%
	SUM	122	143	265	85	43	207	36	271	557	1	4	5	5	917	100.00%

Source: Fishing 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 745 vessels for the 96-97 fishing year.

Appendix Table 6.3. Gulf of Maine cod landings in thousands of lbs* by gear sector and vessel class.

May 97- April 98 fishing year

GEAR SECTOR & VESSEL CLASS	MAINE			NEW HAMPSHIRE	MASSACHUSETTS					RHODE ISLAND			OTHER NORTH EAST	TOTAL		
	Portland	Other	Total		Boston	Gloucester	New Bedford	Other	Total	Pt. Judith	Other	Total		Ths. lbs.	% of total	
Otter Trawl Sector:																
	<51 GRT	250	420	670	533	112	514	1	497	1,124	0	0	0	0	2,327	19.90%
	51-150 GRT	1,120	98	1,218	15	165	1,299	158	245	1,867	3	2	5	0	3,105	26.56%
	>150 GRT	282	0	282	0	114	496	68	0	678	0	0	0	0	960	8.21%
	SUM	1,652	518	2,170	548	391	2,309	227	742	3,669	3	2	5	0	6,392	54.67%
Gillnet Sector:																
	<51 GRT	341	404	745	1,379	0	1,295	0	431	1,726	0	0	0	2	3,852	32.95%
	51-150 GRT	71	0	71	124	0	216	0	0	216	0	0	0	0	411	3.52%
	>150 GRT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
	SUM	412	404	816	1,503	0	1,511	0	431	1,942	0	0	0	2	4,263	36.46%
Hook Sector:																
	<51 GRT	22	3	25	9	16	362	0	253	631	0	0	0	0	665	5.69%
	51-150 GRT	27	0	27	0	0	0	0	0	0	0	0	0	0	27	0.23%
	>150 GRT	39	0	39	0	0	0	0	0	0	0	0	0	0	39	0.33%
	SUM	88	3	91	9	16	362	0	253	631	0	0	0	0	731	6.25%
Other Gears:																
	<51 GRT	0	19	19	9	0	95	0	150	245	0	0	0	0	273	2.34%
	51-150 GRT	0	5	5	0	0	26	0	1	27	0	0	0	0	32	0.27%
	>150 GRT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
	SUM	0	24	24	9	0	121	0	151	272	0	0	0	0	305	2.61%
Total of All Gear Sectors:																
	<51 GRT	613	846	1,459	1,930	128	2,266	1	1,331	3,726	0	0	0	2	7,117	60.88%
	51-150 GRT	1,218	103	1,321	139	165	1,541	158	246	2,110	3	2	5	0	3,575	30.58%
	>150 GRT	321	0	321	0	114	496	68	0	678	0	0	0	0	999	8.55%
	SUM	2,152	949	3,101	2,069	407	4,303	227	1,577	6,514	3	2	5	2	11,691	100.00%

Source: Vessel Trip Reports and Dealer Database

* Landed Weight

**Appendix Table 6.4. Gulf of Maine cod landings in thousands of lbs* by gear sector and vessel class.
May 96 - April 97 Fishing Year.**

GEAR SECTOR & VESSEL CLASS	MAINE			NEW HAMPSHIRE	MASSACHUSETTS					RHODE ISLAND			OTHER NORTH EAST	TOTAL		
	Portland	Other	Total		Boston	Gloucester	New Bedford	Other	Total	Pt. Judith	Other	Total		Ths. lbs.	% of total	
Otter Trawl Sector:																
	<51 GRT	155	421	576	588	210	359	0	441	1,010	0	0	0	2	2,176	13.30%
	51-150 GRT	1,366	249	1,615	12	429	2,521	248	199	3,397	0	3	3	0	5,027	30.72%
	>150 GRT	729	0	729	0	393	757	159	0	1,309	0	1	1	0	2,039	12.46%
	SUM	2,250	670	2,920	600	1,032	3,637	407	640	5,716	0	4	4	2	9,242	56.48%
Gillnet Sector:																
	<51 GRT	834	482	1,316	1,747	0	1,715	0	634	2,349	0	1	1	2	5,415	33.09%
	51-150 GRT	166	0	166	168	0	258	0	0	258	0	0	0	0	592	3.62%
	>150 GRT	0	0	0	0	0	0	2	0	2	0	0	0	0	2	0.01%
	SUM	1,000	482	1,482	1,915	0	1,973	2	634	2,609	0	1	1	2	6,009	36.73%
Hook Sector:																
	<51 GRT	114	4	118	0	43	391	0	172	606	0	0	0	0	724	4.42%
	51-150 GRT	39	0	39	0	0	9	0	0	9	0	0	0	0	48	0.29%
	>150 GRT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
	SUM	153	4	157	0	43	400	0	172	615	0	0	0	0	772	4.72%
Other Gears:																
	<51 GRT	27	8	35	16	1	66	0	132	199	0	0	0	0	250	1.53%
	51-150 GRT	12	0	12	0	0	63	0	1	64	0	0	0	0	76	0.46%
	>150 GRT	13	0	13	0	0	0	0	0	0	0	0	0	0	13	0.08%
	SUM	52	8	60	16	1	129	0	133	263	0	0	0	0	339	2.07%
Total of All Gear Sectors:																
	<51 GRT	1,130	915	2,045	2,351	254	2,531	0	1,379	4,164	0	1	1	4	8,565	52.35%
	51-150 GRT	1,583	249	1,832	180	429	2,851	248	200	3,728	0	3	3	0	5,743	35.10%
	>150 GRT	742	0	742	0	393	757	161	0	1,311	0	1	1	0	2,054	12.55%
	SUM	3,455	1,164	4,619	2,531	1,076	6,139	409	1,579	9,203	0	5	5	4	16,362	100.00%

Source: Vessel Trip Reports and Dealer Database

* Landed Weight

Appendix Table 6.5. Frequency distribution of vessels' annual Gulf of Maine cod landings. (Fishing Vessel Logbooks "VTR" Database.)

ANNUAL COD LANDINGS (000'S POUNDS)	OTTER TRAWL											
	FY 95/96				FY 96/97				FY 97/98			
	VESSELS	%	LANDINGS	%	VESSELS	%	LANDINGS	%	VESSELS	%	LANDINGS	%
>0 - 1	117	29%	43,558	1%	62	17%	19,035	0%	53	15%	15,321	0%
>1 - 5	90	23%	251,325	4%	83	23%	243,016	3%	103	29%	272,602	6%
>5 - 10	73	18%	542,504	9%	77	21%	563,282	8%	56	16%	394,278	8%
>10 - 20	47	12%	661,275	11%	48	13%	700,940	10%	84	24%	1,228,919	26%
>20 - 30	19	5%	451,324	8%	28	8%	699,224	10%	22	6%	534,727	11%
>30 - 40	8	2%	276,900	5%	15	4%	526,932	7%	9	3%	323,470	7%
>40 - 50	9	2%	407,660	7%	10	3%	444,243	6%	10	3%	443,279	9%
>50 - 60	8	2%	450,700	8%	5	1%	285,865	4%	6	2%	323,382	7%
>60 - 70	5	1%	334,841	6%	7	2%	455,786	6%	5	1%	336,405	7%
>70 - 80	8	2%	596,273	10%	5	1%	374,184	5%	5	1%	374,911	8%
>80	14	4%	1,771,659	31%	20	6%	2,769,713	39%	4	1%	439,074	9%
TOTAL	398	100%	5,788,019	100%	360	100%	7,082,220	100%	357	100%	4,686,368	100%
ANNUAL COD LANDINGS (000'S POUNDS)	GILLNET											
	FY 95/96				FY 96/97				FY 97/98			
	VESSELS	%	LANDINGS	%	VESSELS	%	LANDINGS	%	VESSELS	%	LANDINGS	%
>0 - 1	45	25%	12,740	0%	30	20%	7,394	0%	14	11%	4,831	0%
>1 - 5	28	16%	65,621	1%	29	20%	78,429	2%	18	14%	51,191	2%
>5 - 10	15	8%	113,080	3%	10	7%	74,667	2%	14	11%	105,687	3%
>10 - 20	32	18%	450,032	10%	17	12%	266,181	6%	17	13%	233,308	7%
>20 - 30	12	7%	298,936	7%	6	4%	150,193	3%	22	17%	557,925	17%
>30 - 40	14	8%	459,524	10%	12	8%	416,625	9%	14	11%	492,486	15%
>40 - 50	5	3%	221,270	5%	11	7%	490,190	10%	8	6%	363,786	11%
>50 - 60	4	2%	228,324	5%	7	5%	384,355	8%	4	3%	219,250	7%
>60 - 70	3	2%	193,339	4%	4	3%	268,282	6%	5	4%	322,306	10%
>70 - 80	4	2%	294,705	7%	3	2%	222,839	5%	2	2%	147,606	4%
>80	17	9%	2,123,019	48%	18	12%	2,397,204	50%	8	6%	863,978	26%
TOTAL	179	100%	4,460,590	100%	147	100%	4,756,359	100%	126	100%	3,362,354	100%
ANNUAL COD LANDINGS (000'S POUNDS)	ALL GEARS											
	FY 95/96				FY 96/97				FY 97/98			
	VESSELS	%	LANDINGS	%	VESSELS	%	LANDINGS	%	VESSELS	%	LANDINGS	%
>0 - 1	365	43%	98,454	1%	281	37%	71,441	1%	208	30%	52,583	1%
>1 - 5	161	19%	405,965	4%	145	19%	391,421	3%	148	22%	379,808	4%
>5 - 10	94	11%	695,463	6%	92	12%	681,935	5%	80	12%	568,495	6%
>10 - 20	84	10%	1,191,809	11%	67	9%	983,049	8%	113	17%	1,636,228	18%
>20 - 30	36	4%	875,106	8%	43	6%	1,065,295	8%	43	6%	1,068,802	12%
>30 - 40	24	3%	818,061	7%	29	4%	1,018,002	8%	27	4%	956,008	11%
>40 - 50	17	2%	762,306	7%	23	3%	1,032,517	8%	20	3%	891,571	10%
>50 - 60	11	1%	625,732	6%	11	1%	603,797	5%	12	2%	651,525	7%
>60 - 70	7	1%	462,598	4%	10	1%	660,779	5%	11	2%	721,110	8%
>70 - 80	16	2%	1,188,340	11%	11	1%	820,468	6%	8	1%	593,097	7%
>80	33	4%	4,128,572	37%	42	6%	5,549,756	43%	14	2%	1,468,082	16%
TOTAL	848	100%	11,252,406	100%	754	100%	12,878,460	100%	684	100%	8,987,309	100%

Multispecies Monitoring Report

1998

Appendix VII

Expected change in DAS usage for 1999 DAS allocation Options

Appendix Table 7.1. Expected change in DAS usage for 1999 DAS allocation options based on 1997 VMS/call-in data. Shaded areas represent the status quo allocation of DAS.

Fleet DAS permits

DAS allocation	100	97	93	88	84	79	74	71	66	62	57	53	48	45	40	35	31	26	22	17	13
Nominal effort reduction from 1997	114%	110%	106%	100%	95%	90%	85%	81%	75%	70%	65%	60%	55%	51%	46%	40%	35%	30%	25%	20%	15%
Effective effort reduction	6%	6%	6%	6%	7%	8%	9%	11%	13%	16%	19%	22%	26%	30%	34%	40%	45%	52%	58%	66%	72%
Expected 1999 DAS	29,360	29,353	29,346	29,328	29,173	28,854	28,367	27,902	27,180	26,349	25,387	24,295	23,072	22,061	20,582	18,942	17,155	15,201	13,076	10,755	8,882

Individual DAS permits

Nominal reduction form 1993	Effective reduction from 1997	Expected 1999 DAS																					
43%	9%	14,636	43,996	43,989	43,982	43,964	43,809	43,490	43,002	42,538	41,815	40,984	40,023	38,930	37,707	36,697	35,217	33,578	31,791	29,837	27,712	25,390	23,517
45%	9%	14,636	43,996	43,989	43,982	43,964	43,809	43,490	43,002	42,538	41,815	40,984	40,023	38,930	37,707	36,697	35,217	33,578	31,791	29,837	27,712	25,390	23,517
47%	9%	14,636	43,996	43,989	43,982	43,964	43,809	43,490	43,002	42,538	41,815	40,984	40,023	38,930	37,707	36,697	35,217	33,578	31,791	29,837	27,712	25,390	23,517
50%	9%	14,631	43,991	43,984	43,977	43,959	43,804	43,485	42,997	42,533	41,810	40,979	40,017	38,925	37,702	36,692	35,212	33,573	31,786	29,832	27,707	25,385	23,512
53%	11%	14,427	43,787	43,780	43,773	43,756	43,601	43,281	42,794	42,329	41,607	40,776	39,814	38,722	37,499	36,488	35,009	33,369	31,582	29,629	27,503	25,182	23,309
55%	13%	13,987	43,347	43,340	43,333	43,315	43,160	42,841	42,354	41,889	41,167	40,336	39,374	38,282	37,059	36,048	34,569	32,929	31,142	29,188	27,063	24,742	22,869
58%	17%	13,411	42,771	42,764	42,757	42,739	42,584	42,265	41,778	41,313	40,591	39,760	38,798	37,706	36,483	35,472	33,993	32,353	30,566	28,612	26,487	24,166	22,293
60%	20%	12,911	42,271	42,264	42,257	42,239	42,084	41,765	41,278	40,813	40,091	39,260	38,298	37,206	35,983	34,972	33,493	31,853	30,066	28,112	25,987	23,666	21,793
62%	24%	12,193	41,554	41,547	41,539	41,522	41,367	41,047	40,560	40,096	39,373	38,542	37,580	36,488	35,265	34,254	32,775	31,135	29,349	27,395	25,269	22,948	21,075
65%	29%	11,433	40,793	40,786	40,779	40,761	40,606	40,287	39,800	39,335	38,613	37,782	36,820	35,728	34,505	33,494	32,015	30,375	28,588	26,634	24,509	22,188	20,315
67%	34%	10,651	40,011	40,004	39,997	39,979	39,824	39,505	39,018	38,553	37,831	37,000	36,038	34,946	33,723	32,712	31,233	29,593	27,806	25,852	23,727	21,406	19,533
70%	39%	9,864	39,224	39,217	39,210	39,192	39,037	38,718	38,231	37,766	37,044	36,213	35,251	34,159	32,936	31,925	30,446	28,806	27,019	25,066	22,940	20,619	18,746
73%	44%	9,050	38,410	38,403	38,396	38,378	38,223	37,904	37,417	36,952	36,229	35,398	34,437	33,344	32,121	31,111	29,631	27,992	26,205	24,251	22,126	19,804	17,931
75%	48%	8,433	37,793	37,786	37,779	37,761	37,606	37,287	36,799	36,335	35,612	34,781	33,819	32,727	31,504	30,494	29,014	27,375	25,588	23,634	21,509	19,187	17,314
77%	53%	7,600	36,960	36,953	36,946	36,928	36,773	36,454	35,966	35,502	34,779	33,948	32,987	31,894	30,671	29,661	28,181	26,542	24,755	22,801	20,676	18,354	16,481
80%	58%	6,757	36,117	36,110	36,103	36,085	35,930	35,611	35,124	34,659	33,937	33,106	32,144	31,052	29,829	28,818	27,339	25,699	23,912	21,958	19,833	17,512	15,639
82%	63%	5,901	35,261	35,254	35,247	35,229	35,074	34,755	34,268	33,803	33,081	32,250	31,288	30,196	28,973	27,962	26,483	24,843	23,056	21,102	18,977	16,656	14,783
85%	69%	5,039	34,399	34,392	34,385	34,367	34,212	33,892	33,405	32,941	32,218	31,387	30,425	29,333	28,110	27,099	25,620	23,980	22,194	20,240	18,114	15,793	13,920
87%	74%	4,176	33,536	33,529	33,522	33,504	33,349	33,030	32,543	32,078	31,356	30,524	29,563	28,470	27,248	26,237	24,758	23,118	21,331	19,377	17,252	14,931	13,058
90%	80%	3,307	32,667	32,660	32,653	32,635	32,480	32,161	31,674	31,209	30,486	29,655	28,694	27,601	26,378	25,368	23,888	22,249	20,462	18,508	16,383	14,061	12,188
92%	84%	2,654	32,014	32,007	32,000	31,982	31,827	31,508	31,020	30,556	29,833	29,002	28,040	26,948	25,725	24,714	23,235	21,595	19,809	17,855	15,729	13,408	11,535

Table 7.4. Expected change in DAS usage for 1999 DAS allocation options based on 1997 VMS/call-in data. Shaded areas represent the status quo allocation of DAS.

Total		Individual			Fleet			
Expected DAS usage	Effective reduction from 1997	Nominal reduction from 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	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%	62%	12,193	24%	75%	66	27,180	13%
37,782	20%	65%	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%