APPENDIX C

SWORDFISH PERMIT INFORMATION

Table 1. Number of swordfish vessels by size by ability to carry an observer. (Source: Councils' Request to the Secretary of Commerce under Section 303(e). Data input and analysis by NMFS SEFC.)

LENGTH	CARRY OBSERVER YES	CARRY OBSERVER NO	NO ANSWER	TOTAL
1-10	0	0	0	0
11-20	0	1	0	1
21-30	8	21	7	36
31-40	14	45	12	71
41-50	25	40	10	75
51-60	24	21	7	52
61-70	22	23	6	51
71-80	13	18	5	36
81-90	12	4	0	16
91-100	2	0	0	2
TOTALS	120	173	47	340

Table 2. Total number of vessels by month, by gear and by area for a yes response to carrying an observer. (Source: Councils' Request to the Secretary of Commerce under Section 303(e). Data input and analysis by NMFS SEFC.)

	LONGLINE	HARPOON	GILLNET	OTHER	COMBINATION
JANUARY					
Gulf of Mexico	44	1	0	0	3
Florida East Coast	28	1	0	0	5
Jacksonville, FL to Cape Hatteras	0	0	0	0	4
Hatteras through New York	3	0	0	0	3
North of New York	1	2	0	0	1
Caribbean	1	0	0	0	1
TOTALS	77	4	0	0	17
FEBRUARY					
Gulf of Mexico	45	1	0	0	3
Florida East Coast	29	1	0	0	4
Jacksonville, FL to Cape Hatteras	0	0	0	0	4
Hatteras through New York	3	0	0	0	3
North of New York	1	2	0	0	1
Caribbean	1	0	0	0	1
TOTALS	79	4	0	0	16
MARCH					
Gulf of Mexico	33	1	0	0	2
Florida East Coast	37	1	0	0	5
Jacksonville, FL to Cape Hatteras	0	1	0	0	4
Hatteras through New York	3	0	0	0	4
North of New York	2	2	0	0	2
Caribbean	1	0	0	0	2
TOTALS	76	5	0	0	19
APRIL					
Gulf of Mexico	13	1	0	0	2
Florida East Coast	41	1	0	0	5
Jacksonville, FL to Cape Hatteras	3	1	0	0	4
Hatteras through New York	4	0	0	0	4
North of New York	4	2	1	0	3
Caribbean	1	0	0	0	2
TOTALS	66	5	1	0	20

Table 2. Continued

	LONGLINE	HARPOON	GILLNET	OTHER	COMBINATION
MAY					
Gulf of Mexico	9	1	0	0	2
Florida East Coast	39	1	0	0	5
Jacksonville, FL to Cape Hatteras	7	1	0	0	4
Hatteras through New York	5	1	0	0	6
North of New York	10	9	1	0	5
Caribbean	1	0	0	0	2
TOTALS	71	13	1	0	24
JUNE					
Gulf of Mexico	1	0	0	0	1
Florida East Coast	33	0	0	0	0
Jacksonville, FL to Cape Hatteras	19	0	1	0	0
Hatteras through New York	20	0	1	0	5
North of New York	15	31	0	0	14
Caribbean	1	0	0	0	0
TOTALS	89	31	2	0	20
JULY					
Gulf of Mexico	1	0	0	0	0
Florida East Coast	30	0	0	0	0
Jacksonville, FL to Cape Hatteras	18	0	1	0	0
Hatteras through New York	20	0	1	0	5
North of New York	20	30	0	0	15
Caribbean	1	0	0	0	0
TOTALS	90	30	2	0	20
AUGUST					
Gulf of Mexico	2	0	0	0	1
Florida East Coast	24	0	0	0	1
Jacksonville, FL to Cape Hatteras	19	0	0	0	1
Hatteras through New York	20	0	1	0	5
North of New York	22	30	0	0	16
Caribbean	1	0	0	0	0
TOTALS	88	30	1	0	24

Table 2. Continued

	LONGLINE	HARPOON	GILLNET	OTHER	COMBINATION
SEPTEMBER					
Gulf of Mexico	4	0	0	0	1
Florida East Coast	24	0	0	0	2
Jacksonville, FL to Cape Hatteras	18	0	0	0	1
Hatteras through New York	25	0	1	0	5
North of New York	19	29	0	0	16
Caribbean	1	0	0	0	1
TOTALS	91	29	1	0	26
OCTOBER					
Gulf of Mexico	8	0	0	0	1
Florida East Coast	27	0	0	0	2
Jacksonville, FL to Cape Hatteras	19	0	0	0	2
Hatteras through New York	25	0	0	0	6
North of New York	14	13	0	0	13
Caribbean	1	0	0	0	1
TOTALS	94	13	0	0	25
NOVEMBER					
Gulf of Mexico	27	0	0	0	1
Florida East Coast	27	1	0	0	2
Jacksonville, FL to Cape Hatteras	7	0	0	0	2
Hatteras through New York	6	0	0	0	6
North of New York	12	5	0	0	10
Caribbean	1	0	0	0	1
TOTALS	80	6	0	0	22
DECEMBER					
Gulf of Mexico	38	0	0	0	1
Florida East Coast	33	1	0	0	3
Jacksonville, FL to Cape Hatteras	1	0	0	0	4
Hatteras through New York	5	0	0	0	5
North of New York	6	3	0	0	4
Caribbean	1	0	0	0	1
TOTALS	84	4	0	0	18

Table 3. Number of swordfish vessel-months* by gear and by area for a yes response to carrying an observer. (Source: Councils' Request to the Secretary of Commerce under Section 303(e). Data input and analysis by NMFS SEFC.)

	LONGLINE	HARPOON	GILLNET	OTHER	COMBINATION
Gulf of Mexico	225	5	0	0	18
Florida East Coast	372	7	0	0	34
Jacksonville, FL to Cape Hatteras	111	3	2	0	30
Hatteras through New York	139	1	4	0	57
North of New York	126	158	2	0	100
Caribbean	12	0	0	0	12
TOTALS	985	174	8	0	251

*This table is a summation of the monthly information shown in Table 2. Vessel-month refers to a vessel fishing in a particular area in a particular month. The numbers shown here in Table 3 are not numbers of vessels; the total number of vessels as of October 29, 1984 was 340.

Table 4. Number of swordfish vessels by month, by gear and by area. (Source: Councils' Request to the Secretary of Commerce under Section 303(e). Data input and analysis by NMFS SEFC.)

	LONGLINE	HARPOON	GILLNET	OTHER	COMBINATION
JANUARY					
Gulf of Mexico	98	2	0	0	4
Florida East Coast	57	3	0	0	6
Jacksonville, FL to Cape Hatteras	2	0	0	0	4
Hatteras through New York	11	1	0	0	5
North of New York	7	4	0	0	1
Caribbean	2	0	0	0	1
TOTALS	177	10	0	0	21
FEBRUARY					
Gulf of Mexico	97	2	0	0	4
Florida East Coast	60	3	0	0	5
Jacksonville, FL to Cape Hatteras	2	0	0	0	4
Hatteras through New York	11	1	0	0	5
North of New York	6	4	0	0	1
Caribbean	1	0	0	0	2
TOTALS	177	10	0	0	21
MARCH					
Gulf of Mexico	66	2	0	0	2
Florida East Coast	81	3	0	0	8
Jacksonville, FL to Cape Hatteras	3	1	0	0	4
Hatteras through New York	14	0	0	0	6
North of New York	6	5	0	1	5
Caribbean	2	0	0	0	2
TOTALS	172	11	0	1	27
APRIL					
Gulf of Mexico	35	2	0	0	2
Florida East Coast	93	3	0	0	7
Jacksonville, FL to Cape Hatteras	8	1	0	0	4
Hatteras through New York	18	1	0	0	6
North of New York	11	6	1	1	5
Caribbean	2	0	0	0	2
TOTALS	167	13	1	1	26

Table 4. Continued

	LONGLINE	HARPOON	GILLNET	OTHER	COMBINATION
MAY					
Gulf of Mexico	24	2	0	0	2
Florida East Coast	87	3	0	1	7
Jacksonville, FL to Cape Hatteras	15	1	0	0	4
Hatteras through New York	20	2	0	0	10
North of New York	18	16	1	1	9
Caribbean	1	0	0	0	2
TOTALS	165	24	1	2	34
JUNE					
Gulf of Mexico	9	1	0	0	2
Florida East Coast	68	2	0	1	4
Jacksonville, FL to Cape Hatteras	28	0	1	0	1
Hatteras through New York	41	5	1	0	12
North of New York	40	79	0	0	34
Caribbean	3	0	0	0	1
TOTALS	189	87	2	1	54
JULY					
Gulf of Mexico	6	1	0	0	0
Florida East Coast	55	1	0	1	1
Jacksonville, FL to Cape Hatteras	29	1	1	0	0
Hatteras through New York	41	5	1	0	10
North of New York	49	88	0	0	38
Caribbean	2	0	0	0	1
TOTALS	182	96	2	1	50
AUGUST					
Gulf of Mexico	7	1	0	0	1
Florida East Coast	48	1	0	1	2
Jacksonville, FL to Cape Hatteras	29	0	0	0	1
Hatteras through New York	45	5	1	0	12
North of New York	53	90	0	0	39
Caribbean	2	0	0	0	1
TOTALS	184	97	1	1	56

Table 4. Continued

	LONGLINE	HARPOON	GILLNET	OTHER	COMBINATION
SEPTEMBER					
Gulf of Mexico	10	2	0	0	1
Florida East Coast	50	1	0	1	3
Jacksonville, FL to Cape Hatteras	27	0	0	0	1
Hatteras through New York	54	5	1	0	11
North of New York	49	84	0	0	39
Caribbean	1	0	0	0	3
TOTALS	191	92	1	1	58
OCTOBER					
Gulf of Mexico	22	1	0	0	2
Florida East Coast	58	1	0	0	3
Jacksonville, FL to Cape Hatteras	29	1	0	0	2
Hatteras through New York	54	1	0	0	11
North of New York	38	26	0	0	27
Caribbean	1	0	0	0	3
TOTALS	202	30	0	0	48
NOVEMBER					
Gulf of Mexico	54	2	0	0	2
Florida East Coast	55	2	0	0	3
Jacksonville, FL to Cape Hatteras	12	0	0	0	2
Hatteras through New York	31	1	0	0	11
North of New York	29	9	0	1	15
Caribbean	3	0	0	0	2
TOTALS	184	14	0	1	35
DECEMBER					
Gulf of Mexico	75	2	0	0	2
Florida East Coast	60	2	0	0	4
Jacksonville, FL to Cape Hatteras	6	0	0	0	4
Hatteras through New York	19	1	0	0	8
North of New York	15	6	0	1	5
Caribbean	3	0	0	0	1
TOTALS	178	11	0	1	24

Table 5. Number of swordfish vessel-months* by gear and by area. (Source: Councils' Request to the Secretary of Commerce under Section 303(e). Data input and analysis by NMFS SEFC.)

	LONGLINE	HARPOON	GILLNET	OTHER	COMBINATION
Gulf of Mexico	503	20	0	0	24
Florida East Coast	772	25	0	5	53
Jacksonville, FL to Cape Hatteras	190	5	2	0	31
Hatteras through New York	359	28	4	0	107
North of New York	321	417	2	5	218
Caribbean	23	0	0	0	21
TOTALS	2,168	495	8	10	454

*This table is a summation of the monthly information shown in Table 4. Vessel-month refers to a vessel fishing in a particular area in a particular month. The numbers shown here in Table 5 are not numbers of vessels; the total number of vessels as of October 29, 1984 was 340.

Table 6. Average trip length in days by month and by area. (Source: Councils' Request to the Secretary of Commerce under Section 303(e). Data input and anlysis by NMFS SEFC.)

	MEAN	STANDARD DEVIATION	NUMBER VESSELS	TOTAL DAYS
JANUARY				
Gulf of Mexico	9.90	5.37	72	713
Florida East Coast	7.13	5.40	52	371
Jacksonville, FL to Cape Hatteras	15.33	8.60	6	92
Hatteras through New York	11.89	7.16	9	107
North of New York	17.00	12.03	3	51
Caribbean	22.00	8.00	2	44
TOTALS	9.57	6.51	144	1,378
FEBRUARY				
Gulf of Mexico	9.73	5.33	73	710
Florida East Coast	7.30	5.33	53	387
Jacksonville, FL to Cape Hatteras	15.33	8.60	6	92
Hatteras through New York	11.89	7.16	9	107
North of New York	17.00	12.03	3	51
Caribbean	22.00	8.00	2	44
TOTALS	9.53	6.43	146	1,391
MARCH				
Gulf of Mexico	10.38	5.47	53	550
Florida East Coast	7.55	5.21	71	536
Jacksonville, FL to Cape Hatteras	13.29	9.41	7	93
Hatteras through New York	11.85	6.25	13	154
North of New York	8.86	10.48	7	62
Caribbean	21.33	5.19	3	64
TOTALS	9.47	6.44	154	1,459
APRIL				
Gulf of Mexico	11.71	6.33	28	328
Florida East Coast	7.68	4.94	82	630
Jacksonville, FL to Cape Hatteras	13.00	8.37	9	117
Hatteras through New York	13.67	11.09	15	205
North of New York	10.25	9.71	12	123
Caribbean	21.33	5.19	3	64
TOTALS	9.85	7.33	149	1,467

Table 6. Continued.

	MEAN	STANDARD DEVIATION	NUMBER VESSELS	TOTAL DAYS
MAY				
Gulf of Mexico	11.44	7.35	18	206
Florida East Coast	7.58	5.01	79	599
Jacksonville, FL to Cape Hatteras	12.47	6.58	19	237
Hatteras through New York	13.74	12.76	19	261
North of New York	9.58	8.04	24	230
Caribbean	25.00	0.00	2	50
TOTALS	9.83	7.78	161	1,583
JUNE				
Gulf of Mexico	7.60	4.84	5	38
Florida East Coast	5.69	2.65	58	330
Jacksonville, FL to Cape Hatteras	8.17	3.75	24	196
Hatteras through New York	8.24	4.17	41	338
North of New York	8.08	7.50	95	768
Caribbean	14.00	0.00	1	14
TOTALS	7.52	5.67	224	1,684
JULY				
Gulf of Mexico	9.25	3.96	4	37
Florida East Coast	5.40	2.55	45	243
Jacksonville, FL to Cape Hatteras	6.62	2.34	26	172
Hatteras through New York	8.44	5.25	39	329
North of New York	8.19	7.58	116	950
Caribbean	14.00	0.00	1	14
TOTALS	7.55	6.10	231	1,745
AUGUST				
Gulf of Mexico	14.50	8.10	6	87
Florida East Coast	5.80	3.93	41	238
Jacksonville, FL to Cape Hatteras	7.26	4.27	27	196
Hatteras through New York	9.18	9.19	45	413
North of New York	8.07	7.71	118	952
Caribbean	14.00	0.00	1	14
TOTALS	7.98	7.36	238	1,900

Table 6. Continued.

	MEAN	STANDARD DEVIATION	NUMBER VESSELS	TOTAL DAYS
SEPTEMBER				
Gulf of Mexico	12.33	7.47	9	111
Florida East Coast	6.70	5.29	44	295
Jacksonville, FL to Cape Hatteras	7.84	5.27	25	196
Hatteras through New York	8.94	10.43	52	465
North of New York	8.03	7.75	108	867
Caribbean	30.00	0.00	2	60
TOTALS	8.31	8.12	240	1,994
OCTOBER				
Gulf of Mexico	13.11	6.81	18	236
Florida East Coast	6.22	4.51	50	311
Jacksonville, FL to Cape Hatteras	8.74	5.45	27	236
Hatteras through New York	9.91	10.92	46	456
North of New York	10.66	8.08	53	565
Caribbean	30.00	0.00	2	60
TOTALS	9.51	8.24	196	1,864
NOVEMBER				
Gulf of Mexico	10.72	5.61	43	461
Florida East Coast	6.10	4.70	48	293
Jacksonville, FL to Cape Hatteras	11.83	6.50	12	142
Hatteras through New York	12.59	13.77	27	340
North of New York	13.43	9.58	28	376
Caribbean	25.00	5.00	2	50
TOTALS	10.39	8.80	160	1,662
DECEMBER				
Gulf of Mexico	10.47	5.41	60	628
Florida East Coast	6.06	4.90	47	285
Jacksonville, FL to Cape Hatteras	14.00	8.60	7	98
Hatteras through New York	10.00	6.90	17	170
North of New York	9.56	10.07	9	86
Caribbean	22.00	8.00	2	44
TOTALS	9.23	6.67	142	1,311

Table 7. Average trip length in days by area - grand totals for 1983. (Source: Councils' Request to the Secretary of Commerce under Section 303(e). Data input and anlysis by NMFS SEFC.)

	MEAN	STANDARD DEVIATION	NUMBER VESSELS	TOTAL DAYS
Gulf of Mexico	10.55	5.84	389	4,105
Florida East Coast	6.74	4.75	670	4,518
Jacksonville, FL to Cape Hatteras	9.57	6.38	195	1,867
Hatteras through New York	10.08	9.52	332	3,345
North of New York	8.82	8.15	576	5,081
Caribbean	22.70	6.82	23	522
TOTALS	8.90	7.25	2,185	19,438

Table 8. Average number of hooks per set times the average trip length in days by month and by area. (Source: Councils' Request to the Secretary of Commerce under Section 303(e). Data input and analysis by NMFS SEFC.)

	MEAN	STANDARD DEVIATION	NUMBER VESSELS	TOTAL DAYS TIMES HOOKS/SET
JANUARY				
Gulf of Mexico	3,900.74	5,298.53	58	226,243
Florida East Coast	2,904.52	5,573.28	42	121,990
Jacksonville, FL to Cape Hatteras	25,000.00	0.00	2	50,000
Hatteras through New York	6,637.14	9,650.00	7	46,460
North of New York	15,125.00	14,875.00	2	30,250
Caribbean	17,800.00	12,200.00	2	35,600
TOTALS	4,518.08	7,228.69	113	510,543
FEBRUARY				
Gulf of Mexico	3,865.83	5,305.44	58	224,218
Florida East Coast	2,994.40	5,657.34	42	125,765
Jacksonville, FL to Cape Hatteras	25,000.00	0.00	2	50,000
Hatteras through New York	6,637.14	9,650.00	7	46,460
North of New York	15,125.00	14,875.00	2	30,250
Caribbean	17,800.00	12,200.00	2	35,600
TOTALS	4,533.57	7,249.84	113	512,293
MARCH				
Gulf of Mexico	4,479.65	5,970.02	43	192,625
Florida East Coast	2,483.79	4,472.94	57	141,576
Jacksonville, FL to Cape Hatteras	25,000.00	0.00	2	50,000
Hatteras through New York	7,153.00	9,075.08	10	71,530
North of New York	16,750.00	11,667.26	3	50,250
Caribbean	18,533.33	9,145.25	3	55,600
TOTALS	4,759.16	7,325.08	118	561,581
APRIL				
Gulf of Mexico	7,140.79	8,097.56	19	135,675
Florida East Coast	2,508.02	4,223.99	65	163,021
Jacksonville, FL to Cape Hatteras	14,150.00	10,868.65	4	56,600
Hatteras through New York	6,590.83	8,494.73	12	79,090
North of New York	11,714.29	10,006.77	7	82,000
Caribbean	18,533.33	9,145.25	3	55,600
TOTALS	5,199.87	6,635.13	110	571,986

Table 8. Continued.

	MEAN	STANDARD DEVIATION	NUMBER VESSELS	TOTAL DAYS TIMES HOOKS/SET
MAY				
Gulf of Mexico	6,111.67	7,799.05	15	91,675
Florida East Coast	2,448.75	4,375.87	59	144,476
Jacksonville, FL to Cape Hatteras	10,780.00	9,475.21	10	107,800
Hatteras through New York	7,299.23	8,282.19	13	94,890
North of New York	9,254.55	8,929.13	11	101,800
Caribbean	25,000.00	0.00	2	50,000
TOTALS	5,369.46	7,685.96	110	590,641
JUNE				
Gulf of Mexico	1,033.67	857.24	3	3,101
Florida East Coast	1,264.31	745.42	49	61,951
Jacksonville, FL to Cape Hatteras	1,822.11	812.21	19	34,620
Hatteras through New York	2,773.08	3,267.97	26	72,100
North of New York	7,909.26	7,559.82	27	213,550
Caribbean	0.00	0.00	0	0
TOTALS	3,107.44	4,665.35	124	385,322
JULY				
Gulf of Mexico	1,550.00	550.00	2	3,100
Florida East Coast	1,146.51	593.45	37	42,421
Jacksonville, FL to Cape Hatteras	1,460.00	528.64	23	33,580
Hatteras through New York	3,210.42	5,673.99	24	77,050
North of New York	7,362.61	8,418.98	38	279,779
Caribbean	0.00	0.00	0	0
TOTALS	3,515.56	5,931.96	124	435,930
AUGUST				
Gulf of Mexico	13,275.00	11,731.45	4	53,100
Florida East Coast	1,871.85	4,131.60	33	61,771
Jacksonville, FL to Cape Hatteras	2,816.52	5,069.56	23	64,780
Hatteras through New York	3,004.69	5,119.02	32	96,150
North of New York	7,059.97	8,256.21	38	268,279
Caribbean	0.00	0.00	0	0
TOTALS	4,185.23	6,817.72	130	544,080

Table 8. Continued.

	MEAN	STANDARD DEVIATION	NUMBER VESSELS	TOTAL DAYS TIMES HOOKS/SET
SEPTEMBER				
Gulf of Mexico	9,933.33	10,728.73	6	59,600
Florida East Coast	2,977.81	6,047.35	36	107,201
Jacksonville, FL to Cape Hatteras	3,615.91	6,775.56	22	79,550
Hatteras through New York	2,772.63	4,841.35	38	105,360
North of New York	7,715.27	8,687.04	33	254,604
Caribbean	30,000.00	0.00	1	30,000
TOTALS	4,678.79	7,561.68	136	636,315
OCTOBER				
Gulf of Mexico	8,679.55	9,041.86	11	95,475
Florida East Coast	2,309.91	5,050.99	43	99,326
Jacksonville, FL to Cape Hatteras	3,861.25	6,510.50	24	92,670
Hatteras through New York	3,292.16	5,463.77	37	121,810
North of New York	8,040.00	8,525.81	25	201,000
Caribbean	30,000.00	0.00	1	30,000
TOTALS	4,541.00	7,225.30	141	640,281
NOVEMBER				
Gulf of Mexico	5,067.42	6,493.91	33	167,225
Florida East Coast	2,309.17	5,171.84	41	94,676
Jacksonville, FL to Cape Hatteras	6,987.00	9,051.54	10	69,870
Hatteras through New York	5,513.00	7,609.90	20	110,260
North of New York	8,351.76	8,341.33	17	141,980
Caribbean	30,000.00	0.00	1	30,000
TOTALS	5,032.88	7,469.20	122	614,011
DECEMBER				
Gulf of Mexico	4,354.59	5,633.04	49	213,375
Florida East Coast	2,323.05	5,377.94	38	88,276
Jacksonville, FL to Cape Hatteras	13,144.00	10,369.94	5	65,720
Hatteras through New York	5,179.17	8,312.68	12	62,150
North of New York	8,427.50	12,522.69	4	33,710
Caribbean	30,000.00	0.00	1	30,000
TOTALS	4,525.06	7,369.76	109	493,231

Table 9. Average number of hooks per set times the average trip length in days by area - grand totals for 1983. (Source: Councils' Request to the Secretary of Commerce under Section 303(e). Data input and anlysis by NMFS SEFC.)

	MEAN	STANDARD DEVIATION	NUMBER VESSELS	TOTAL DAYS TIMES HOOKS/SET
Gulf of Mexico	4,868.48	6,561.38	301	1,465,412
Florida East Coast	2,310.79	4,597.76	542	1,252,450
Jacksonville, FL to Cape Hatteras	5,172.53	8,050.94	146	755,190
Hatteras through New York	4,131.55	6,608.89	238	983,310
North of New York	8,151.94	8,904.34	207	1,687,452
Caribbean	22,025.00	9,726.99	16	352,400
TOTALS	4,480.15	7,076.52	1,450	6,496,214