

A Report on the Discard Data from the Southeast Fisheries Science Center's Coastal Fisheries Logbook Program

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I. Introduction

The Southeast Fisheries Science Center (SEFSC) initiated a program to collect information on the type and amount of marine resources that are discarded or interacted with by vessels in the Gulf of Mexico reef fish, South Atlantic snapper-grouper, king and Spanish mackerel and shark fisheries in the southeastern United States. The reporting regulations for the fishery management plans for all of these fisheries requires mandatory reporting for every trip that is taken by a vessel with a federal permit in these fisheries. The SEFSC developed a supplemental form that is used with the existing logbook form to collect discard data as mandated by the Sustainable Fisheries Act.

The purpose of this report is to provide the results from the supplemental discard form for the first two years that this reporting activity has been conducted. The program was initiated in July 2001 when vessels were selected to report. The selected vessel owners were requested to begin reporting their discards for all trips that were landed after August 1, 2001 through July 31, 2002. In July 2002, a different set of vessels was selected to report their discards for the period August 1, 2002 through July 31, 2003. The information in this reports includes the discard data for the period August 1, 2001 through July 31, 2003.

II. Methods

To reduce the reporting burden on the fishermen, a 20% sample of the vessels with a Gulf of Mexico, South Atlantic snapper-grouper, king mackerel, Spanish mackerel or shark permit was selected to report. To assure that the sample is representative of the total universe of vessels with Federal permits, a stratified, random sample was selected from the universe of all vessels with the above types of Federal permits. For the first year (8/1/2001 - 7/31/2002), a 3 tiered stratification was used. One tier was geographical, and the universe was divided into two geographical strata - the Gulf of Mexico (Florida Keys to the Texas-Mexican border) and the South Atlantic (which extends from the North Carolina - Virginia border to the Florida Keys). The second stratum was based on the type of gear. There were 5 categories in this stratum - handline, longline, trolling, trap and gill nets. The third stratum was based on the fishing activity of the vessels during calendar year 2000. There were two strata in this tier - (1) vessels that made between 1 and 10 trips and (2) vessels that made more than 10 trips. In all, there were 20 strata for the sampling in the first year. However, there were too few boats that used gill nets in the Gulf of Mexico, so all of the boats that used gill nets in the Gulf were combined into a single strata. Consequently, random selections were made in 19 strata.

A total of 2,384 vessels had an active permit when the sample selections were made in July 2001. However, 115 of these vessels were eliminated from the universe because they did

not fit into any of the defined strata. The majority of these vessels reported using diving gear (spear guns and/or power heads) or reported using an unspecified type of gear. Thus, a total of 2,269 vessels comprised the universe of all "eligible" vessels that were used to make the random selections. A 20% selection of the vessels in each of the 19 strata was made which resulted in 455 vessels being selected to report.

Similar to the first year, a stratified, random procedure was used to select the vessels to submit their discard information for the second year, 8/1/2002 - 7/31/2003, of the discard survey. However, slightly different criteria were used to make the selection for the second year. First, the vessels that were selected to report for the first year were removed from the universe before the random selections were made. Second, vessels, that was selected to report their cost data as part of that data collection program, were also eliminated from the universe of available vessels. Lastly, only two tiers were used instead of the three that were used for the first year. The fishing activity strata was eliminated because too many of the vessels changed their fishing patterns and moved to a different strata from the one they were selected to represent. Consequently, 10 strata were used for random selections made for the second year.

The numbers of vessels selected to report for each of the two survey years are presented in Table 1.

Table 1. Numbers of vessels selected for each strata during the two survey period.

Gulf of Mexico	Survey period 8/1/2001 - 7/31/2002	Survey period 8/1/2002 - 7/31/2003
Handline*	162	176
Bottom Longline	28	23
Trolling	17	5
Traps/Pots	9	11
Gillnet	5	0
South Atlantic		
Handline*	136	162
Bottom Longline	9	7
Trolling	65	3
Traps/Pots	9	44
Gillnet	15	14
Total	455	445

The * Handline gear includes electric or bandit rig gear.

selected

fishermen were instructed to complete a supplemental discard form for every fishing trip that they made. If they did not have any discards for the trip, they were instructed to complete a discard form and write "no discards" on the form. It is very important that fishermen understand the need to report for every trip, even when they did not discard any fish. If they did not fish during a calendar month and submitted a no-fishing form, then they did not have to submit a discard form.

III. Results

There were 455 vessels that were selected to report their discards or interactions with marine mammals or sea birds during the first survey year, August 2001 through July 2002. Out of these vessels, logbooks with fishing information were received from 377 vessels for 8,212 trips. Of those vessels, 185 submitted discard information for 3,351 trips, and 192 of them did not submit any discard information. Of the remaining 108 vessels (455 - 377), 68 of them submitted a no-fishing report for each of the 12 month and 32 of them submitted no-fishing reports for some of the twelve months, but not all of them. For the second survey year, August 2002 through July 2003, there were 381 vessels, out of the 445 selected, that submitted logbooks and reported fishing activity for 9,539 trips. Of those 381 vessels, 237 submitted discard information for 6,006 trips. There were 147 vessels that submitted logbooks that did not contain any discard information.

For the 3,351 trips where discards forms were submitted during the first survey year, fishermen reported discarding fish for 2,092 trips and no discards were reported for 1,259 trips. For the 2,092 trips where discards were reported, 1,051 of the discards were reported for the South Atlantic and 1,041 were reported for the Gulf of Mexico. For the trips (1,259) where no discards were reported, 1,031 were in the South Atlantic and 228 were in the Gulf of Mexico. For the 6,006 trips where discards forms were submitted during the second survey year, fishermen reported discarding fish for 3,590 trips and no discards were reported for 2,416 trips. For the 3,590 trips where discards were reported, 1,950 of them were in the South Atlantic and 1,640 were in the Gulf of Mexico. For the 2,416 trips where no discards were reported, 2,022 were in the South Atlantic and 394 were in the Gulf of Mexico.

From the 3,351 trips where discards were reported in the first survey year, a total of 244,959 discards were reported. In the South Atlantic, fishermen reported 126,095 discards and in the Gulf of Mexico fishermen reported 118,864 discards. From the 6,006 trips where discards were reported in the second survey year, a total of 359,458 discards were reported. In the South Atlantic, fishermen reported 129,643 discards and in the Gulf of Mexico, fishermen reported 229,815 discards. The total numbers of discards by species and gear for the two survey years are presented in Appendix I, Tables I-1 and I-2 for the Gulf of Mexico and South Atlantic regions, respectively. For the trips with discards, the numbers of trips and the average number of discards per trip are presented by species and gear for the two survey years combined in Appendix II, Table II-1 and II-2 for the Gulf of Mexico and South Atlantic regions, respectively.

In addition to the numbers of discards, fishermen are asked to record their best estimate of the condition of the fish (animals) when they were released. The fishermen are also asked to specify a reason why the fish (animals) were discarded. For descriptive purposes, the top species for which discards were reported in the South Atlantic and Gulf of Mexico are uses to provide the respective percentages for the condition of the fish released and the reason for the discard.

The fishermen are given 6 options for the condition of released fish. These options are; all animals are dead, majority of the animals are dead, all animals are alive when released, majority of animals are alive, the fish are kept but not sold, and the condition of the animals is

unknown. The percentages for the numbers of animals for the top species by the 6 options are provided for the South Atlantic and Gulf of Mexico in Tables 2 and 3, respectively. The percentages for the three reasons why fish were discarded for the top species are presented for trips reported in the South Atlantic and Gulf of Mexico in Tables 4 and 5, respectively.

Table 2. The numbers of discards and the percent for each of the 6 condition categories for the top species with discards in the South Atlantic.

	All discard	ls dead	Majority	dead	All discard	ls alive	Majority alive		
Species Name	Number	Number Percent		Number Percent		Percent	Number	Percent	
SEA BASS,BLACK	60	0.1	105	0.1	85,120	94.2	5,035	5.6	
SNAPPER, VERMILION	427	1.3	4,637	14.5	11,466	35.7	15,096	47.0	
PORGY,RED,UNC	220	0.7	7,805	24.8	8,991	28.5	13,717	43.5	
MENHADEN	423	2.0	17,744	84.0		0.0	2,751	13.0	
SHARK,DOGFISH,SPINY		0.0	120	1.5	631	7.7	7,465	90.9	
SEA BASS,ROCK		0.0		0.0	6,104	77.1	1,642	20.8	
SNAPPER,YELLOWTAIL	293	4.7	120	1.9	3,390	53.9	2,231	35.5	
SCAMP	39	0.8	450	8.9	2,554	50.6	1,989	39.4	
GRUNT,WHITE		0.0		0.0	2,244	53.5	1,756	41.9	
SNAPPER,RED	36	0.9	156	3.8	1,726	41.6	2,230	53.7	
FINFISHES,UNC,FOOD	1	0.0		0.0		0.0		0.0	
GROUPERS		0.0	3,100	82.7	295	7.9	349	9.3	
SHARK,DOGFISH,UNC	133	5.2	101	4.0	1,178	46.4	1,128	44.4	
GRUNTS		0.0		0.0	2,113	87.6	232	9.6	
GROUPER,GAG	13	0.6	33	1.4	1,588	66.9	697	29.4	
HIND,SPECKLED	60	3.0	646	31.9	361	17.8	925	45.7	

Table 2. Continued

	Kept no	t sold	Unkno	own	Unrepo	orted	Total	
Species Name	Number	Percent	Number	Percent	Number	Percent		
SEA BASS,BLACK	77	0.1	15	0.0		0.0	90,412	
SNAPPER, VERMILION	465	1.5		0.0		0.0	32,091	
PORGY,RED,UNC	740	2.4		0.0	30	0.1	31,503	
MENHADEN		0.0	204	1.0		0.0	21,122	
SHARK,DOGFISH,SPINY		0.0		0.0		0.0	8,216	
SEA BASS,ROCK	9	0.1		0.0	160	2.0	7,915	
SNAPPER, YELLOWTAIL	183	2.9	37	0.6	37	0.6	6,291	
SCAMP	11	0.2		0.0		0.0	5,043	
GRUNT,WHITE	16	0.4		0.0	180	4.3	4,196	
SNAPPER,RED	2	0.1		0.0		0.0	4,150	
FINFISHES,UNC,FOOD	4,030	100.0		0.0		0.0	4,031	
GROUPERS	1	0.0		0.0	5	0.1	3,750	
SHARK,DOGFISH,UNC		0.0		0.0		0.0	2,540	
GRUNTS	67	2.8		0.0		0.0	2,412	
GROUPER,GAG	39	1.6		0.0	3	0.1	2,373	
HIND,SPECKLED	13	0.6	14	0.7	6	0.3	2,025	

Table 3. The numbers of discards and the percent for each of the 6 condition categories for the top species with discards in the Gulf of Mexico.

	All disca	rds dead	Majori	ty dead	All disca	rds alive	Majority alive		
Species Name	Number	Number Percent		Percent	Number	Percent	Number	Percent	
SNAPPER,RED	13,501	9.6	46,681	33.2	11,353	8.1	47,380	33.7	
GROUPER,RED	620	0.7	5,500		36,863	38.6	48,780	51.0	
SNAPPER, VERMILION	290	1.9	3,325	21.4	4,552	29.4	6,470	41.7	
GROUPER,GAG	27	0.2	44	0.3	9,979	70.1	3,347	23.5	
GROUPERS	2	0.0	17	0.1	1,145	8.7	11,684	88.7	
SNAPPERS,UNC	113	1.4	5,515	67.4	802	9.8	1,668	20.4	
SNAPPER,MANGROVE	1,545	22.2	4,740	68.2	447	6.4	170	2.4	
TRIGGERFISHES		0.0		0.0	3,537	72.0	1,255	25.6	
AMBERJACK,GREATER	99	2.1	169	3.5	1,208	25.2	2,216	46.2	
SNAPPER,LANE	8	0.2		0.0	3,729	80.8	745	16.1	
SHARK,UNC	2	0.0	65	1.4	1,459	31.8	3,053	66.6	
AMBERJACK	190	4.9	710	18.2	1,388	35.6	1,554	39.8	
SNAPPER, YELLOWTAIL	127	3.9	65	2.0	1,894	58.8	931	28.9	
DRUM,RED	973	41.6	705	30.1	457	19.5	202	8.6	
SHARK,BLACKTIP	106	4.9	168	7.7	1,649	75.5	257	11.8	
GROUPER,BLACK	2	0.1	139	6.4	1,142	52.4	859	39.4	

Table 3. Continued

	Kept n	ot sold	Unk	nown	Unre	Total	
Species Name	Number	Percent	Number	Percent	Number	Percent	
SNAPPER,RED	51	0.0				0.0	140,812
GROUPER,RED	66	0.1	3,738	3.9	11	0.0	95,578
SNAPPER, VERMILION	772	5.0		0.0	103	0.7	15,512
GROUPER,GAG	43	0.3	791	5.6		0.0	14,231
GROUPERS	7	0.1	20	0.2	300	2.3	13,175
SNAPPERS,UNC	35	0.4	44	0.5	4	0.1	8,181
SNAPPER,MANGROVE	18	0.3	5	0.1	28	0.4	6,953
TRIGGERFISHES	30	0.6		0.0	88	1.8	4,910
AMBERJACK,GREATER	505	10.5	603	12.6		0.0	4,800
SNAPPER,LANE	2	0.0		0.0	134	2.9	4,618
SHARK,UNC	6	0.1	2	0.0		0.0	4,587
AMBERJACK	5	0.1	55	1.4	2	0.1	3,904
SNAPPER,YELLOWTAIL	121	3.8		0.0	86	2.7	3,224
DRUM,RED	2	0.1		0.0		0.0	2,339
SHARK,BLACKTIP		0.0		0.0	3	0.1	2,183
GROUPER,BLACK	24	1.1	11	0.5	2	0.1	2,179

Table 4. The numbers of discards and percent for each of the 3 reasons for the top species with discards in the South Atlantic.

	Regulator	y discards	Market c	onditions	Un-rep	ported	
Species Name	Number	Percent	Number	Percent	Number	Percent	Total discards
SEA BASSE,ATLANTIC,BLACK,UNC	90,247	99.8	119	0.1	46	0.1	90,412
SNAPPER, VERMILION	31,710	98.8	135	0.4	246	0.8	32,091
PORGY,RED,UNC	31,094	98.7	197	0.6	212	0.7	31,503
MENHADEN	0	0.0	19,022	90.1	2,100	9.9	21,122
SHARK,DOGFISH,SPINY	8,057	98.1	157	1.9	2	0.0	8,216
SEA BASS,ROCK	7,221	91.2	77	1.0	617	7.8	7,915
SNAPPER,YELLOWTAIL	5,926	94.2	72	1.1	293	4.7	6,291
SCAMP	4,962	98.4	44	0.9	37	0.7	5,043
GRUNT,WHITE	1,803	43.0	1,859	44.3	534	12.7	4,196
SNAPPER,RED	4,148	100.0	2	0.1		0.0	4,150
FINFISHES,UNC,BAIT,ANIMAL FOOD	100	2.5	3,730	92.5	201	5.0	4,031
GROUPERS	3,737	99.7	1	0.0	12	0.3	3,750
SHARK,DOGFISH,UNC	2,426	95.5	114	4.5		0.0	2,540
GRUNTS	1,860	77.1	538	22.3	14	0.6	2,412
GROUPER,GAG	2,341	98.7	14	0.6	18	0.8	2,373
HIND,SPECKLED	2,012	99.4		0.0	13	0.6	2,025

Table 5. The numbers of discards and percent for each of the 3 reasons for the top species with discards in the Gulf of Mexico.

	Regulatory of	liscards	Market con	ditions	Un-repo	Un-reported		
Species Name	Number	Percent	Number	Percent	Number	Percent	Total discards	
CNIADDED DED	120 222	00.0	206	0.2	1 102	0.0	140.013	
SNAPPER,RED	139,333		286		,			
GROUPER,RED	93,368	97.7	283	0.3	1,927	2.0	95,578	
SNAPPER, VERMILION	14,742	95.0	2	0.0	768	5.0	15,512	
GROUPER,GAG	13,826	97.2	5	0.0	400	2.8	14,231	
GROUPERS	12,864	97.6		0.0	311	2.4	13,175	
SNAPPERS,UNC	8,146	99.6	31	0.4	4	0.1	8,181	
SNAPPER, MANGROVE (Duplicate of 3760)	6,914	99.4	13	0.2	26	0.4	6,953	
TRIGGERFISHES	4,650	94.7	152	3.1	108	2.2	4,910	
AMBERJACK,GREATER	3,291	68.6	9	0.2	1,500	31.3	4,800	
SNAPPER,LANE	4,475	96.9	2	0.0	141	3.1	4,618	
SHARK,UNC	3,852	84.0	691	15.1	44	1.0	4,587	
AMBERJACK	3,900	99.9	1	0.0	3	0.1	3,904	
SNAPPER, YELLOWTAIL	2,949	91.5	190	5.9	85	2.6	3,224	
DRUM,RED	2,339	100.0		0.0		0.0	2,339	
SHARK,BLACKTIP	2,156	98.8	25	1.2	2	0.1	2,183	
GROUPER,BLACK	2,159	99.1	8	0.4	12	0.6	2,179	

Appendix I

Numbers of discards by gear for the Gulf of Mexico and South Atlantic

Table I-1. Numbers of discards by species and gear for vessels selected to report during each of the two survey years from the South Atlantic.

	Handlir		Bottom le		Traps/		Trol		Gill 1		Dive g		Total all	
Species Name	Year 1	Year 2	Year 1	Year 2	Year 1	Year 2	Year 1	Year 2	Year 1	Year 2	Year 1	Year 2	Year 1	Year 2
AMBERJACK	37	171						32					37	203
AMBERJACK,GREATER	409	1,044	7					32					416	1,076
BALLYHOO	1,035	420						24			2		1,035	420
BARRACUDA BLACK BELLIED ROSEFISH	71 47	164 2						24			2		73 47	188
BLUE RUNNER	49	145						1					49	146
BLUEFISH		3					110			103			110	106
BONITO, ATLANTIC	24	341					13	7					37	348
CHUBS									67	66			67	66
COBIA	54	33					2	3		10			56	46
CREVALLE	15	51						1					15	52
DOLPHINFISH	207	217	3				245	58					455	275
DRUM,RED	1	66								9			1	75
EEL,MORAYS FILEFISH (dup 4560 recode)	2	39			240			11					2 240	50
FINFISHES,UNC FOR FOOD	2	49			240			10		159			240	218
FINFISHES,UNC,BAIT,ANIMAL FOOD	2,010	2,021						10		157			2,010	2,021
GROUPER,BLACK	252	1,362				3	27	5					279	1,370
GROUPER,GAG	958	1,221			101	93							1,059	1,314
GROUPER,NASSAU	1	9											1	9
GROUPER,RED	331	471			1	57		7			3		335	535
GROUPER,WARSAW	161	46											161	46
GROUPERS	584	3,166											584	3,166
GRUNT,BLUESTRIPED	120	1 175				1							120	1
GRUNT,TOMTATE GRUNT,WHITE	250 9	1,175 596				3,591							250	1,175 4,187
GRUNIS	257	690				1,465							257	2,155
HIND,SPECKLED	821	1,204				1,403							821	1,204
HOGFISH	5	3											5	3
JEWFISH	4	5											4	5
KING MACKEREL and CERO	428	412					48	791		26			476	1,229
MENHADEN									204	20,918			204	20,918
PARROTFISH	12	29											12	29
PINFISH,SPOTTAIL		13			75								75	13
PORGY, RED, UNC	15,907	14,844	57		280	361	30	2	22				16,296	15,207
RAINBOW RUNNER	4	36											4	36
REMORA DI IDDEDEIGH (SEA CHI IDS)	6	107 102						11	127				6 127	118 102
RUDDERFISH (SEA CHUBS) SAILFISH	7	102					2	1	127				127	102
SCAMP	2,836	2,164			19	10	14	1					2,869	2,174
SCUP	2,030	2,101			20	10							20	1
SCUPS OR PORGIES,UNC	18	7			20	450			104				142	457
SEA BASS,ROCK	763	1,061			2,200	3,891							2,963	4,952
SEA BASSE, ATLANTIC, BLACK, UNC	1,874	1,672			65,830	20,689		325	22				67,726	22,686
SEA CATFISH									75	26			75	26
SEA GULL	3	3						3					3	6
SEA TROUT, GRAY, UNC	15	1 200						40	10	7			10	7
SHARK, ATLANTIC SHARPNOSE SHARK, BLACKTIP	17	1,396 297				4	1	40	5	31 13			17 7	1,471 310
SHARK, BONNETHEAD	1	12					1		50	13			50	12
SHARK,DOGFISH,SMOOTH		12	22						30	1,071			22	1,071
SHARK,DOGFISH,SPINY	29	121	195						0	7,871			224	7,992
SHARK, DOGFISH, UNC	936	4								1,597	3		939	1,601
SHARK,DUSKY	2	1								13			2	14
SHARK,HAMMERHEAD	7	2	15						1	3	1		23	5
SHARK,NURSE	1	79									1		1	79
SHARK,SANDBAR	168	1	10				10			5	J		188	6
SHARK,TIGER	58	5	1					2-		225	1		59	5
SHARK,UNC SNAPPER,LANE	262 55	554 12				14		37		325	1		262 55	930 12
SNAPPER, LANE SNAPPER, MANGROVE (Duplicate of 3760)	1,065	539									5		1,070	539
SNAPPER,MUTTON	1,063	539 57						1	3		٦		1,070	58
SNAPPER,RED	2,478	1,645			6	1	11		1		9		2,504	1,646
SNAPPER,SILK	156	82											156	82
SNAPPER, VERMILION	13,793	17,895	51		145	177					30		14,019	18,072
SNAPPER, YELLOWTAIL	2,277	4,005						9]		2,277	4,014
SPANISH MACKEREL	28	7								190	1		28	197
TILEFISH,SAND	1	138									1		1	138
TOADFISHES	4	. 3			78						J		82	. 3
TRIGGERFISH, GRAY	69	493			300	311					1		369	804
TRIGGERFISHES TUNA,ALBACORE	79 10	270			120	48		1]		199 10	319
TUNA,ALBACORE TUNA,LITTLE (TUNNY)	61	432					261	133			1		322	565
TUNA,YELLOWFIN	3	35					5	101]		8	136
TURTLE,LOGGERHEAD(SEA)	1	2					3	101			J		1	2
													1	

Table I-1. Continued

	Hano	flines*	Bottom	longlines	Traps	s/Pots	Tro	lling	Gill	Nets	Dive	e gear	Total a	all gear
Species Name	Year 1	Year 2	Year 1	Year 2	Year 1	Year 2	Year 1		Year 1	Year 2	Year 1	Year 2	Year 1	Year 2
TURTLES,UNC	1	2											1	2
WAHOO		1					4						4	1
AFRICAN POMPANO	1												1	0
AMBERJACK,LESSER	12		48				422						482	0
BANDED RUDDERFISH	168												168	0
BIGEYE	10												10	0
BIGEYE SCAD	200												200	0
BONITO,UNC	197						20						217	0
EEL,CONGER									1				1	0
GROUPER, MISTY	1												1	0
GROUPER, SNOWY	12	-											12	0
GROUPER, YELLOWFIN	21												27	0
JACKS,UNC. LONGTAIL BASS	21		1										1	0
MACKEREL,UNC. (Scomber)	2		1										2	0
MARGATE	1												1	0
MARLIN, WHITE			1										1	0
MULLETS	50												50	0
SHARK, BIGEYE THRESHER			1										1	0
SHARK, BIGNOSE			1										1	0
SHARK,BLUE	2	!	15										17	0
SHARK,LEMON	1								1			1	1	0
SHARK,MAKO UNC	1												1	0
SHARK,NIGHT	2	1	7										9	0
SHARK,SCALLOPED HAMMERHEAD			2										2	0
SHARK,SIXGILL BIGEYE	4	ŀ											4	0
SHARK,SMOOTH HAMMERHEAD			3										3	0
SNAPPER,QUEEN			2										2	0
SNAPPERS,UNC	586	·											586	0
TILEFISH					125								125	0
TILEFISH, BLUELINE	14	1											14	0
TILEFISH,UNCLASSIFIED	20	1											20	0
TRIGGERFISH,OCEAN TUNA,BLACKFIN	20						2						20	0
TURTLES,LEATHERBACK			1				2						1	0
ANGELFISHES		6	1										0	6
CERO		16						1					0	17
CRAB,UNC										264			0	264
CRABS,BLUE,HARD										30			0	30
CROAKER, ATLANTIC, UNC										5			0	5
DRUM,BLACK										50			0	50
DRUMS										3			0	3
FLOUNDER, ATLANTIC & GULF, UNC										11			0	11
GRUNT,FRENCH		6											0	6
HIND,RED		5											0	5
HIND,ROCK		40											0	40
HORSESHOE CRAB										96			0	96
JACK,ALMACO		32											0	32
JACK,BAR		4	1										0	4
NEEDLEFISH,ATLANTIC PILOTFISH		29							1			1	0	29
POMPANO								l '	1	А		1	0	1
PORGY, JOLTHEAD		1								"			0	1
RAYS,UNC		Ι ΄								108			0	108
SAND PERCH									1	224		1	0	224
SCADS,ROUGH		200]			0	
SEA ROBINS								I		153			0	153
SHARK,ATLANTIC ANGEL										22			0	22
SHARK,BLACKNOSE		22											0	22
SHARK,CARIBBEAN SHARPNOSE		3								1		1	0	4
SHARK,FINETOOTH		10	1										0	10
SHARK,SAND TIGER		54	1					I		5			0	59
SHARK,SILKY		1										1	0	1
SHARK, SPINNER										20			0	20
SKATES SNAPPER,BLACK										961		1	0	961
		,,											0	1 11
SNAPPER,GRAY AT (MANGROVE) SPADEFISH		11								65		1	0	65
SPADEFISH SQUIRRELFISHES										65			0	5
STINGRAYS		1 1								140		1	0	141
STURGEONS,UNC		l '								140			0	2
SURGEONFISHES		R										1	0	8
TARPON) ,											0	2
TAUTOG		1 ~								2		1	0	2
TUNA,BLUEFIN,UNC								1		1 ~			0	1
* Handline gear includes bandit rig gear.	•								•					

^{*} Handline gear includes bandit rig gear.

Table I-2. Numbers of discards by species and gear for vessels selected to report during each of the two survey years from the Gulf of Mexico.

BARRACUDA	12 3062 199 2151 18 123 12 12 13 131 14 349 10 93 18 129 14 113 15 22 63 18 10 11 1838 16 129 15 5 867 778 4 10 18 1291 19 7572 20 11 62477 10 924 11 924 12 25 11 924 12 92 13 924 14 92 16 639 17 639 18 92 18 93 18 94 18 94
AMBERIACK, GREATER 2644 2098 41	99 2151 8 123 12 12 13 131 14 349 0 93 18 129 14 113 18 10 11 1838 10 11 1838 10 11 1838 10 11 1838 10 11 1838 10 11 1838 11 191 15 62477 12 25 11 62477 12 25 11 62477 12 25 11 62477 12 25 13 177 16 639 17 66 639 17 66 639 18 66 639 19 486 16 636 16 636 17 636 18 636 18 636 18 636 18 757 18 84 18 85 18 86 18 87 18 87 18 88 19 9 7572 10 62477 10 6247
AMBERIACK, GREATER 2644 2098 41	99 2151 8 123 12 12 13 131 14 349 0 93 18 129 14 113 18 10 11 1838 10 11 1838 10 11 1838 10 11 1838 10 11 1838 10 11 1838 11 191 15 62477 12 25 11 62477 12 25 11 62477 12 25 11 62477 12 25 13 177 16 639 17 66 639 17 66 639 18 66 639 19 486 16 636 16 636 17 636 18 636 18 636 18 636 18 757 18 84 18 85 18 86 18 87 18 87 18 88 19 9 7572 10 62477 10 6247
BANDED RUDDERFISH BARRACUDA 42	12 12 13 131 144 149 140 193 188 129 144 113 152 153 168 129 155 867 778 14 10 183 1291 166 162477 1752 1755 175 166 169 177 166 169 166 166 166 166 166 166 166 166
BARRACIDA BALUE FUNNER BLUE FUNNER 10 74 205 BLUE FUNNER 10 76 BLUE FUNNER 10 76 BULIEFINI 10 76 BONTO,ATLANTIC 3 27 3 8 9 92 94 94 CREVALLE 28 27 2 8 124 36 DRUMRED DOPLINISH 86 10 2 DRUMRED 501 1619 188 36 30 31 31 50 EELS,UNC 1 1 24 815 52 FINNESISUNC FOR FOOD 10 516 185 262 GRAYSBY 4 10 GROUPER,BLACK 848 1112 20 120 15 59 2 GROUPER,RED 22 120 15 59 2 3 3 GROUPER,RED 33 13 10 8049 15256 950 13971 40 28 145 3310 GROUPER,SNOWY 22 GROUPER,SNOWY 22 GRUNT,WHITE 170 GRUNTS 331 290 46 55 349 HIND,SPECKLED 2 11 JACKS,UNC. 29 13 JACKS,UNC. 30 1078 144 5 5 KING MACKEREL and CERO 143 159 PORGY,REDUNC 99 157 22 PORGRES 24 REMORA 9 88 43 RUDDERFISH (SEA CHUBS) 21 64 5 SCUPS OR PORGIES,UNC 6 11 5 SEA ASS BLACK 100 88 SEA GULL 1 5 5 SEA TROUT,WHITE 17 2 SHARK,BLACKNOSE	131 349
BLUE RUNNER	14 349 0 93 129 144 113 122 63 18 10 11 1838 16 129 15 5 867 778 14 10 189 1757 22 25 11 62477 12 25 11 62477 12 15 6 6 639 12 11 66 639 12 11 66 639 12 11 66 636 365
BLUEFISH 10 76 3 77 3 8 9 92 94 94 96 15 17 8 17 8 16 17 18 17 18 18 19 17 18 18 19 17 18 18 18 18 18 18 18 18 18 18 18 18 18	0 93 93 129 144 113 63 188 100 1 1838 16 129 15 5 867 778 14 10 16 129 11 62477 12 25 11 62477 12 25 11 62477 12 66 639 2 11 166 62 19 486 16 365
BONTIO,ATLANTIC	129 144 113 152 163 188 100 11 1838 16 129 155 778 14 10 188 1291 199 7572 101 62477 122 25 11 62477 125 12 12 13 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16
COBIA 100 103 4	14 113 122 63 18 10 11 1838 16 129 155 867 778 14 10 129 17572 11 62477 12 2 25 11 924 15 2 2 11 16 6 639 12 11 16 66 639 14 86 66 365
CREVALLE 28 27 2 1 1 124 36 1 125 158 1 125 159 1 125 159 1 125 159 1 125 159 1 125 159 1 125 159 1 125 159 1 125 159 1 127 159 1 137 1 16 127 167 127 167 127 127 127 127 127 127 127 127 127 12	62 63 63 10 64 129 65 867 778 64 10 68 1291 757 751 624777 62477 62477 62477 62477 62477 62477 62477 62477 624777 62477 62477 62477 62477 62477 62477 62477 62477 624777 62477 6
DOLPHINFISH 86	18
DRUM, RED	11 1838 6 129 55 867 778 4 10 88 1291 99 7572 101 62477 122 25 11 924 15 22 19 177 66 639 2 11 66 629 2 11 66 639 2 11 66 639
EEL,MORAYS	66 129 867 778 4 100 188 1291 7572 11 62477 22 25 11 924 155 2 19 177 66 639 2 111 66 62 9 486 66 365
EELS, UNC	778 4 10 1291 199 7572 11 62477 12 25 11 924 15 5 2 11 7766 639 2 11 166 62 9 486 66 365
GRAYSBY 4 10 GROUPER, BLACK 848 1112 20 120 15 59 2 3 3 88 GROUPER, GAG 6566 7191 58 19 117 137 16 127 665 GROUPER, RED 24034 33105 8049 15256 950 13971 40 28 145 3311 GROUPER, SNOWY 22 5 25 GROUPER, SNOWY 22 5 25 GRUNT, FRENCH 2 2 2 5 5 GRUNT, FRENCH 319 236 82 12030 688 GRUNT, FRENCH 3170 1449 7 7 1449 7 1449 7 7 1449 7 7 1449 7 1449 7 7 1449 7 1449 7 7 1449 7 144	4 10 188 1291 199 7572 101 62477 122 25 101 924 155 2 199 177 166 639 2 11 166 62 9 486 166 365
GROUPER, GACK 848	1291 1399 1402 1519 1519 1519 1519 1519 1529 1539 1549 1559 1599 1599 1609 1609 1609 1609 1609 1609 1609 16
GROUPER,GAG 6566 7191 58 8049 15256 950 13971 40 28 145 3316 GROUPER, RED 24034 33105 8049 15256 950 13971 40 28 145 3316 GROUPER, SONOWY 22 25 25 25 25 3310 588 25 25 349 45 3316 588 25 349 45 349 45 349 340 340 340 340 340 340 340 340 340 340	7572 11 62477 12 25 11 924 15 2 19 177 166 639 2 11 16 62 9 486 365
GROUPER,RED	11 62477 12 25 11 924 15 2 19 177 166 639 2 11 166 62 9 486 166 365
GROUPER, SNOWY GROUPERS 139 236 82 1223 GRUNT, FRENCH GRUNT, FRENCH GRUNTS 331 290 HIND, SPECKLED 2 11 JACKS, UNC. 29 13 JACKS, UNC. 29 13 JACKS, UNC. 29 13 JORGE, FRENCH GROUPERS 43 206 1222 CRUNT, WHITE GRUNTS 331 290 HIND, SPECKLED 2 11 JACKS, UNC. 29 13 JACKS, UNC. 29 13 JACKS, UNC. 29 13 JACKS, UNC. 29 13 JACKS, UNC. 29 15 JACKS, UNC. 29 16 JACKS, UNC. 29 17 JACKS, UNC. 29 18 JACKS, UNC. 343 206 18 JACKS, UNC. 343 349 JACKS, UNC. 349 JACKS,	22 25 51 924 55 2 19 177 66 639 2 11 66 62 9 486 66 365
GROUPERS GRUNT, FRENCH GRUNT, WHITE GRUNT GRUNT GRUNTS GRUNT GRUNT GRUNTS GRUNT	31 924 35 2 49 177 66 639 2 11 66 62 9 486 366 365
GRUNT, FRENCH GRUNTS 331 290 HIND, SPECKLED 2 111 JACKS, UNC. 29 13 JEWFISH 14 15 5 467 CRINTS 331 290 HIND, SPECKLED 349 HIND, SPECKLED 349 JEWFISH 14 15 5 467 A 4 A 5 18 PORGY, RED, UNC 99 157 22 669 PUFFERS 24 REMORA 8 RUDDERFISH (SEA CHUBS) 21 64 5 SCAMP 261 252 3 135 SCUPS OR PORGIES, UNC 6 11 11 10 88 120 135 135 135 135 135 135 135 136 137 137 138 138 139 139 139 139 130 131 130 131 131 132 133 134 135 135 135 135 135 135 136 137 137 138 138 138 138 138 138 138 138 138 138	2 177 66 639 2 11 66 62 9 486 66 365
GRUNT, WHITE GRUNTS 331 290 HIND, SPECKLED 12 11 JACKS, UNC. 29 13 JEWFISH 14 15 5 467 KING MACKEREL and CERO 143 159 PORGY, RED, UNC 99 157 22 669 69 PUFFERS 24 REMORA 9 88 43 RUDDERFISH (SEA CHUBS) 21 64 5 SCAMP 261 252 3 135 206 349 4 7 49 3206 18 9 7 7 49 3206 7 7 7 8 9 18 9 18 9 18 18 18 18 18 18 18 18 18 18 18 18 18	19 177 166 639 2 11 166 62 9 486 36 365
GRUNTS 331 290 625 349 999 110 1	66 639 2 11 66 62 9 486 66 365
HIND, SPECKLED JACKS, UNC. 29 13 JEWFISH 14 15 5 467 43 206 18 PORGY, RED, UNC 99 157 22 669 69 PUFFERS 24 REMORA RUDDERFISH (SEA CHUBS) 21 82 84 84 84 84 84 84 84 85 84 84	2 11 66 62 9 486 86 365
JEWFISH 14 15 5 467 43 206 18 KING MACKEREL and CERO 143 159 43 206 18 PORGY, RED, UNC 99 157 22 669 69 79 PUFFERS 24 252 22 669 69 252 22 REMORA 9 88 43 4 25 22	9 486 36 365
KING MACKEREL and CERO 143 159 22 669 69 77 22 669 69 PUFFERS 24 24 REMORA 9 88 43 8	365
PORGY,RED,UNC 99 157 22 669 69 PUFFERS 24 24 252 252 REMORA 9 88 43 252 RUDDERFISH (SEA CHUBS) 21 64 5 SCAMP 261 252 3 135 SCUPS OR PORGIES,UNC 6 11 1078 144 SEA BASS,BLACK 100 88 59 609 SEA GULL 1 5 59 609 SHARK,ATLANTIC SHARPNOSE 6 400 18 SHARK,BLACKNOSE 120 7 SHARK,BLACKTIP 672 1423 15 23 6 44 66	
PUFFERS 24	0 226
REMORA 9 88 43 RUDDERFISH (SEA CHUBS) 21 64 5 SCAMP 261 252 3 135 SCUPS OR PORGIES,UNC 6 111 1078 144 SEA BASS,BLACK 100 88 59 609 SEA GULL 1 5 5 SEA TROUT,WHITE 17 2 SHARK,ATLANTIC SHARPNOSE 6 400 18 SHARK,BLACKNOSE 120 7 SHARK,BLACKNOSE 120 7 SHARK,BLACKTIP 672 1423 15 23 6 4 44 66	
RUDDERFISH (SEA CHUBS) 21 64 5 SCAMP 261 252 3 1355 SCUPS OR PORGIES,UNC 6 11 1 1078 144 SEA BASS,BLACK 100 88 59 609 SEA GULL 1 5 SEA TROUT,WHITE 17 2 SHARK,ATLANTIC SHARPNOSE 6 400 18 SHARK,BLACKNOSE 120 7 SHARK,BLACKTIP 672 1423 15 23 6 4 44 66	252
SCAMP 261 252 3 135 265	
SCUPS OR PORGIES, UNC 6	
SEA BASS,BLACK 100 88 59 609 15	
SEA GULL	
SEA TROUT, WHITE	1 5
SHARK,BLACKNOSE	7 2
SHARK,BLACKTIP 672 1423 15 23 6 44 66	6 418
	20 7
SHARK,BULL 9 2 10 1 1 1 1 1 1	
	2 19
SHARK, DOGFISH, SPINY 135 20	
	286
SHARK,HAMMERHEAD 5 6	5 6 2 455
	48
SHARK, TIGER 1 785 1 17 12	2 814
SHARKUNC 738 782 1456 1553 13 45 220	
SKATES 17 4	7 4
SNAPPER,BLACK 6 7 3	9 7
SNAPPER,LANE 241 20 2829 1528 300	
SNAPPER,MANGROVE 4534 2412 4 3 453	
	30
SNAPPER,RED 29900 109244 984 628 3 20 21 12 3090	
SNAPPER,SILK 6 450 800 100	6 450 24 8988
SNAPPER, VERMILION 2337 8277 215 4187 496 652	
SNAPPER, UPC 825 6812 544 136	
5NATERS,UM	8 259
SOURRELFISHES 2 230	2 230
STINGRAYS 1 2	1 2
TOADFISHES 33 31 27 :	58
TRIGGERFISH,GRAY 111 58 509 353 66	
TRIGGERFISHES 130 174 4375 231 450	
TUNA,LITTLE (TUNNY) 9 130 73 57 121 695 20	3 882
TURTLE,LOGGERHEAD(SEA) 1 1 1	1 1
	2 1
BLACK BELLIED ROSEFISH 6 PONITO UNC 32 17 17 148	0
BONITO, UNC 3 17 148 16 EEL, CONGER 25 26	
FLOUNDER, ATLANTIC & GULF, U 1	51
GROUPER, WARSAW 2	25 0
GROUPER, YELLOWFIN 4	1 0 2 0
	0 1 0 2 0 4 0
MACKEREL, UNC. (Scomber) 5	1 0 2

Table I-2. Continued

	Hand	ines*	Bottom l	onglines	Traps	/Pots	Trol	lling	Gill Net	Dive	gear	Total all	gear
Species Name	Year 1	Year 2	Year 1	Year 2	Year 1	Year 2	Year 1	Year 2	Year 1	Year 1	Year 2	Year 1	Year 2
MADIBUDIC			_									-	
MARLIN,UNC OCTOPUS			5		2							5 2	0
PINFISH,SPOTTAIL					50							50	0
PORGY,KNOBBED					150							150	0
SCORPIONFISH-THORNYHEADS	8				150								0
SHARK, LEMON	8 11									,		8 12	0
	11									1		12	0
SHARK,REEF SHARK,SIXGILL	19		600									600	0
	40		600		75								0
SPOT	40				75							115	0
SWORDFISH			2									2	0
TUNA,BLACKFIN							1					1	0
TURTLE,GREEN(SEA)			1									1	0
CHUBS		4										0	4
CRIMSON ROVER		2										0	2
FILEFISH		2										0	2
GROUPER,MISTY				4								0	4
GROUPER,NASSAU		1										0	1
GRUNT,BLUESTRIPED		22				1324						0	1346
HAKE,ATLANTIC,				122								0	122
HERRINGS,UNC				1								0	1
HOGFISH		6										0	6
JACK,BAR		4										0	4
MARGATE						72						0	72
PARROTFISH		3										0	3
PINFISH		280										0	280
PORGY,JOLTHEAD						110						0	110
PORGY, WHITEBONE						6						0	6
RAYS,UNC				2								0	2
SAILFISH		2										0	2
SEA BASS,ROCK		150				142						0	292
SEA CATFISH		60										0	60
SHARK, CARIBBEAN SHARPNOSE		10										0	10
SHARK,DOGFISH,SMOOTH				23								0	23
SHARK,SAND TIGER		3		100]	l		0	103
SHARK,SILKY				3								0	3
SNAPPER,DOG						30						0	30
SNAPPER,GRAY AT		20										0	20
SPADEFISH		7]	l		0	7
TILEFISH,BLUELINE				861]	l		0	861
TUNA, YELLOWFIN		1		1								0	2

^{*} Handline gear includes bandit rig gear.

Appendix II

The number of trips and average number of discards per trip for Gulf of Mexico and South Atlantic

Table II-1. Numbers of trip and reported discards per trip for the vessels selected to report in the South Atlantic region for the period, 8/1/2001 - 7/31/2003.

	Hand	llines*	Bottom	Longline	Tran	s/Pots	Tro	lling	Gill	Nets	Dive	e Gear
	Number of	Discards per										
Species Name	trips	trip										
AFRICAN POMPANO	1							l				
AMBERJACK	56		,				14					
AMBERJACK,GREATER AMBERJACK,LESSER	203		3				17					
f	3 5		3	16.0			2	211.0				
ANGELFISHES BALLYHOO												
	24											
BANDED RUDDERFISH BARRACUDA	76						18	1.3			١,	2.0
BIGEYE	2						10	1.3			1	2.0
BIGEYE SCAD	4	50.0										
BLACK BELLIED ROSEFISH	11	4.5										
BLUE RUNNER	40	4.9					1	1.0				
BLUEFISH	1	3.0					1	110.0	16	6.4		
BONITO, ATLANTIC	72						9	2.2	10	0.1		
BONITO,UNC	21	9.4					7	2.9				
CERO	10						1	1.0				
CHUBS	10	1.0						1.0	21	6.3		
COBIA	47	1.9					5	1.0	6			
CRAB,UNC									19			
CRABS,BLUE,HARD				1					1	30.0		
CREVALLE	15	4.4		1			1	1.0		1		
CROAKER, ATLANTIC, UNC				1					1	5.0		
DOLPHINFISH	42	10.1	1	3.0			44	6.9				
DRUM,BLACK]]					1	50.0		
DRUM,RED	6	11.2							4	2.3		
DRUMS									1	3.0		
EEL,CONGER									1	1.0		
EEL,MORAYS	14	2.9					3	3.7				
FILEFISH (dup 4560 recode)	1	1.0			8	30.0						
FINFISHES,UNC FOR FOOD	8	6.4					5	2.0	9	17.7		
FINFISHES, UNC, BAIT, ANIMAL FOOD	37											
FLOUNDER, ATLANTIC & GULF, UNC									3	3.7		
GROUPER, BLACK	172	9.4			1	3.0	4	8.0				
GROUPER,GAG	314	6.9			23	8.4						
GROUPER, MISTY	1	1.0										
GROUPER,NASSAU	8	1.3										
GROUPER,RED	196	4.1			9	6.4	5	1.4			1	3.0
GROUPER, SNOWY	6	2.0										
GROUPER, WARSAW	30	6.9										
GROUPER, YELLOWFIN	1	1.0										
GROUPERS	50	75.0										
GRUNT,BLUESTRIPED	6	20.0			1	1.0						
GRUNT,FRENCH	2	3.0										
GRUNT,TOMTATE	17	83.8										
GRUNT, WHITE	26	23.3			22	163.2						
GRUNTS	40	23.7			11	133.2						
HIND,RED	2	2.5										
HIND,ROCK	22	1.8										
HIND,SPECKLED	122	16.6										
HOGFISH	6	1.3										
HORSESHOE CRAB				1					9	10.7		
JACK,ALMACO	7											
JACK,BAR	1	4.0		1								
JACKS,UNC.	3		1	6.0								
JEWFISH	9			1								
KING MACKEREL and CERO	212	4.0		1			223	3.8	5	5.2		
LONGTAIL BASS			1	1.0								
MACKEREL,UNC. (Scomber)	1	2.0										
MARGATE	1	1.0										
MARLIN,WHITE			1	1.0								
MENHADEN				1					123	171.7		
MULLETS	1	50.0										
NEEDLEFISH, ATLANTIC	8	3.6										
PARROTFISH	26	1.6		1								
PILOTFISH				1			1	1.0				
PINFISH, SPOTTAIL	5	2.6		1	1	75.0						
POMPANO POD CIVIO TIVE A D				1					1	4.0		
PORGY, JOLTHEAD	1	1.0	_									
PORGY,RED,UNC	420		7	8.1	12	53.4	2	16.0	6	3.7		
RAINBOW RUNNER	7	5.7		1								
RAYS,UNC				1					11	9.8		
REMORA	44						9	1.2				
RUDDERFISH (SEA CHUBS)	7	14.6		1			_		22	5.8	1	
SAILFISH	6	1.2		l			3	1.0		ļ.	l	

Table II-1. Continued

I	2 379 1 5 38	Discards per trip 100.0 13.2	Number of trips	Discards per trip	Number of trips	Discards per trip	Number of trips	Discards per trip	Number of trips	Discards per trip	Number of trips	Discards per trip
SAND PERCH SCADS,ROUGH SCAMP SCUP SCUPS OR PORGIES,UNC SEA BASS,ROCK SEA BASSE,ATLANTIC,BLACK,UNC	2 379 1 5	100.0	trips	trip	trips	trip	trips	trip	trips	frin	trips	trip
SCADS,ROUGH SCAMP SCUP SCUPS OR PORGIES,UNC SEA BASS,ROCK SEA BASSE,ATLANTIC,BLACK,UNC	379 1 5			1					F-	u.p		
SCADS,ROUGH SCAMP SCUP SCUPS OR PORGIES,UNC SEA BASS,ROCK SEA BASSE,ATLANTIC,BLACK,UNC	379 1 5								5	44.8		
SCAMP SCUP SCUPS OR PORGIES, UNC SEA BASS, ROCK SEA BASSE, ATLANTIC, BLACK, UNC	1 5								,	11.0		
SCUP SCUPS OR PORGIES,UNC SEA BASS,ROCK SEA BASSE,ATLANTIC,BLACK,UNC	1 5				6	4.8	1	14.0				
SCUPS OR PORGIES,UNC SEA BASS,ROCK SEA BASSE,ATLANTIC,BLACK,UNC		1.0			1	20.0						
SEA BASSE,ATLANTIC,BLACK,UNC	38	5.0			6	78.3			18	5.8		
	50	48.0			35	174.0						
SEA CATFISH	138	25.7			122	709.2	1	325.0	2	11.0		
									16	6.3		
SEA GULL	4	1.5					1	3.0				
SEA ROBINS									14			
SEA TROUT,GRAY,UNC									3	5.7		
SHARK,ATLANTIC ANGEL									2	11.0		
SHARK,ATLANTIC SHARPNOSE	36	39.3			1	4.0	5	8.0	12	2.6		
SHARK, BIGEYE THRESHER			1	1.0								
SHARK, BIGNOSE	2	11.0	1	1.0								
SHARK,BLACKNOSE SHARK,BLACKTIP	40	11.0 7.5					1	1.0	12	1.5		
SHARK,BLUE	2	1.0	1	15.0			1	1.0	12	1.3		
SHARK,BONNETHEAD	1	12.0	1	15.0					1	50.0		
SHARK,CARIBBEAN SHARPNOSE	1	3.0							1	1.0		
SHARK,DOGFISH,SMOOTH	1	5.0	1	22.0					24	44.6		
SHARK,DOGFISH,SPINY	19	7.9	2	97.5					61			
SHARK,DOGFISH,UNC	21	44.8	-						22		1	3.0
SHARK,DUSKY	2	1.5							4	3.3		
SHARK, FINETOOTH	1	10.0										
SHARK,HAMMERHEAD	3	3.0	2	7.5					4	1.0		
SHARK,LEMON	1	1.0										
SHARK,MAKO UNC	1	1.0										
SHARK,NIGHT	1	2.0	2	3.5								
SHARK,NURSE	31	2.6										
SHARK,SAND TIGER	9	6.0							4	1.3		
SHARK,SANDBAR	16	10.6	4	2.5			3	3.3	1	5.0		
SHARK,SCALLOPED HAMMERHEAD			1	2.0								
SHARK,SILKY	1	1.0										
SHARK,SIXGILL BIGEYE	4	1.0										
SHARK,SMOOTH HAMMERHEAD			1	3.0					_			
SHARK,SPINNER									3	6.7		
SHARK,TIGER	10	6.3	1	1.0		7.0	27	1.4	20	10.0		
SHARK,UNC	57	14.3			2	7.0	27	1.4	30			
SKATES		1.0							28	34.3		
SNAPPER,BLACK SNAPPER,GRAY AT (MANGROVE)	3	1.0 3.7										
SNAPPER, LANE	6	11.2										
SNAPPER,MANGROVE (Duplicate of 3760)	142	11.3									1	5.0
SNAPPER, MUITON	66	3.6					1	1.0	1	3.0		5.0
SNAPPER, QUEEN			1	2.0					-			
SNAPPER,RED	182	22.7			2	3.5	1	11.0			2	4.5
SNAPPER,SILK	22	10.8										
SNAPPER, VERMILION	387	81.9	6	8.5	10	32.2					1	30.0
SNAPPER, YELLOWTAIL	600	10.5					3	3.0				
SNAPPERS,UNC	24	24.4										
SPADEFISH									3	21.7		
SPANISH MACKEREL	11	3.2							21	9.1		
SQUIRRELFISHES	2	2.5										
STINGRAYS	1	1.0							10			
STURGEONS,UNC									2	1.0		
SURGEONFISHES	3	2.7										
TARPON	2	1.0								l		
TAUTOG									1	2.0		
TILEFISH THEESELDLUELDIE	_	2.3			1	125.0						
TILEFISH,BLUELINE	6	2.3										
TILEFISH,SAND TILEFISH,UNCLASSIFIED	17	8.2										
TOADFISHES	2	1.0 2.3			-	15.6						
TRIGGERFISH,GRAY	54	10.4			5 13					1		
TRIGGERFISH, GRAY TRIGGERFISH, OCEAN	34 1	5.0			13	47.0				1		
TRIGGERFISHES	30	11.6			5	33.6	1	1.0				
TUNA,ALBACORE	2	5.5				33.0	,	1.0				
TUNA,BLACKFIN	-	5.5					1	2.0		l		
TUNA,BLUEFIN,UNC							1	1.0		l		
TUNA,LITTLE (TUNNY)	95	5.2					61	6.5		l		
TUNA, YELLOWFIN	5	7.6					9	11.8		l		
TURTLE,LOGGERHEAD(SEA)	3	1.0								l		
TURTLES, LEATHERBACK			1	1.0								
TURTLES,UNC	3	1.0										
WAHOO	1	1.0		L			3	1.3		<u> </u>	L	

Handlines includes bandit rigs.

 $Table \ \ II-2. \ \ Numbers of trip and reported discards per trip for the vessels selected to report in the Gulf of Mexico region for the period, 8/1/2001 - 7/31/2003.$

	Handlines*		Bottom Longline		Traps/Pots		Trolling		Gill Nets		D:	Gear
	Number of	Discards per	Number of	Discards per	Number of	Discards per	Number of	Discards per	Number of		Number of	Discards per
Species Name	trips	trip	trips	trip	trips	trip	trips	trip	trips	trip	trips	trip
			•		•							
AMBERJACK	258		9	6.1	2	1.0	5	36.6				
AMBERJACK, GREATER	205		5	8.2			5	3.4		1		
AMBERJACK, LESSER	11	11.9		10.0]					
BANDED RUDDERFISH	29		I o	12.0			1	1.0				
BARRACUDA BLACK BELLIED ROSEFISH	1 29	4.0 6.0	٥	6.6			3	1.3				
BLUE RUNNER	14	19.9			4	35.0	2	2.0				
BLUEFISH	9	9.6				55.0	1	17.0				
BONITO, ATLANTIC	11	2.7	3	3.7			16	11.6				
BONITO,UNC	2	1.5	3	5.7			11	13.5				
CHUBS	3	1.3										
COBIA	72		1	4.0			5	1.6			1	2.0
CREVALLE	12						29	5.5				
CRIMSON ROVER	1	2.0		2.0								
DOLPHINFISH DDLAADED	8	12.0	1	2.0				5.0			١.	21.0
DRUM,RED EEL,CONGER	56	37.9	1	79.0 25.0			6	5.0			1	31.0
EEL,MORAYS	3	1.3	15	8.7								
EELS,UNC	1	1.0	20	42.0	4	13.0						
FILEFISH (dup 4560 recode)	1	2.0	20	.2.0		13.0						
FINFISHES,UNC FOR FOOD	15		21	21.3								
FLOUNDER, ATLANTIC & GULF, UNC	1	1.0										
GRAYSBY	3	4.7										
GROUPER,BLACK	237	8.3	19	7.4	7	10.6		1.0			1	3.0
GROUPER,GAG	534	25.8	10	5.8	7	19.4	2	68.5			6	23.8
GROUPER,MISTY			1	4.0								
GROUPER,NASSAU	1000	1.0	101	100.6	20	572.0	,	20.0			0	21.6
GROUPER, RED	1098	52.0	121	192.6	26	573.9		20.0			8	21.6
GROUPER,SNOWY GROUPER,WARSAW	1 1	5.5 2.0			2	12.5						
GROUPER, YELLOWFIN	2	2.0										
GROUPERS	34	11.0	6	13.7	53	240.0						
GRUNT,BLUESTRIPED	3	7.3			9	147.1						
GRUNT,FRENCH	1	2.0			1	25.0						
GRUNT, WHITE	16	10.6			4	39.0						
GRUNTS	49	12.7			10	97.4						
HAKE,ATLANTIC,RED & WHITE			3	40.7								
HERRINGS,UNC	_		1	1.0								
HIND,SPECKLED	5	2.6										
HOGFISH	5 2	1.2 43.5										
JACK,ALMACO JACK,BAR	1	43.3										
JACKS,UNC.	7	6.0					8	7.0				
JEWFISH	20	1.5	18	26.2			2	2.0				
KING MACKEREL and CERO	66	4.6					30	8.3				
MACKEREL, UNC. (Scomber)	2	2.5										
MARGATE					2	36.0						
MARLIN,UNC			2	2.5								
OCTOPUS					1	2.0						
PARROTFISH	2	1.5										
PINFISH DINFISH COOTTAIL	1	280.0				50.0				1		
PINFISH,SPOTTAIL PORGY,JOLTHEAD					1	50.0 36.7						
PORGY,JOLIHEAD PORGY,KNOBBED					2					1		
PORGY,RED,UNC	11	23.3	3	7.3	16							
PORGY, WHITEBONE	l "	20.0		/.5	1	6.0						
PUFFERS	2	12.0			6	42.0						
RAYS,UNC			1	2.0								
REMORA	37	2.6	12	3.6						1		
RUDDERFISH (SEA CHUBS)	13		1	5.0								
SAILFISH	1	2.0										
SCAMP	105		1	3.0	4	33.8						
SCORPIONFISH-THORNYHEADS	1	8.0										
SCUPS OR PORGIES, UNC	5	3.4			21	58.2				1		
SEA BASS, ROCK	7	21.4			4	35.5						
SEA BASSE,ATLANTIC,BLACK,UNC SEA CATFISH	5	37.6 7.5			10	66.8						
SEA CATRISH SEA GULL	8	7.5 1.5								1		
SEA GULL SEA TROUT, WHITE	3	6.3										
SHARK,ATLANTIC SHARPNOSE	12		1	18.0								
SHARK,BLACKNOSE	l '2	33.0	2	63.5								
SHARK,BLACKTIP	58	36.1	5	7.6			10	5.0				
SHARK,BULL	2	4.5	2	6.0								
SHARK, CARIBBEAN SHARPNOSE	1	10.0										

Table II-2. Continued

	Handlines*		Bottom Longline		Traps/Pots		Trolling		Gill Nets		Dive Gear	
	Number of	Discards per	Number of	Discards per	Number of	Discards per	Number of	Discards per	Number of	Discards per	Number of	Discards per
Species Name	trips	trip	trips	trip	trips	trip	trips	trip	trips	trip	trips	trip
SHARK,DOGFISH,SMOOTH			4	5.0								
			4	5.8 31.0								
SHARK,DOGFISH,SPINY	١ ,	22.5	3									
SHARK, DOGFISH, UNC	2	22.5	5	56.2								
SHARK,HAMMERHEAD	3	3.7 1.2									١.	
SHARK,LEMON							,	10.5			1	1.0
SHARK, NURSE	22		13	7.2			6	10.5				
SHARK, REEF	3	6.3		100.0								
SHARK,SAND TIGER	2	1.5	1	100.0								
SHARK,SANDBAR	6	4.7	3	21.3								
SHARK,SILKY			1	3.0								
SHARK, SIXGILL			1	600.0								
SHARK,TIGER	14		4	4.5			4	3.0				
SHARK,UNC	128	11.9	78	38.6			12	4.8				
SKATES			5	4.2								
SNAPPER,BLACK	4	3.3	1	3.0								
SNAPPER,DOG					1	30.0						
SNAPPER,GRAY AT (MANGROVE)	1	20.0										
SNAPPER,LANE	31	8.4			44	99.0						
SNAPPER,MANGROVE (Duplicate of 3760)	149	46.6			3	2.3						
SNAPPER,MUTTON	18	3.6										
SNAPPER, RED	1115	124.8	58	27.8	2	11.5	5	4.2			1	12.0
SNAPPER,SILK	1	6.0			4	112.5						
SNAPPER, VERMILION	161	65.9	2	107.5	45	104.1						
SNAPPER, YELLOWTAIL	277	11.6			1	10.0						
SNAPPERS,UNC	74	103.2			3	181.3						
SPADEFISH	4	1.8										
SPANISH MACKEREL	13	14.9					8	9.1				
SPOT	1	40.0			2	37.5						
SOUIRRELFISHES			1	2.0	2	115.0						
STINGRAYS			2	1.5								
SWORDFISH			1	2.0								
TILEFISH,BLUELINE			6	143.5								
TOADFISHES			12	5.3	3	9.0						
TRIGGERFISH,GRAY	22	7.7		0.0	14	61.6						
TRIGGERFISHES	46	6.6			50	92.1						
TUNABLACKFIN	"	0.0			50	/2.1	1	1.0				ĺ
TUNALITTLE (TUNNY)	29	4.8	21	6.2			53					
TUNA YELLOWFIN	1	1.0	1	1.0]	15.4				
TURTLE,GREEN(SEA)	1 '	1.0	1	1.0								
TURTLE,LOGGERHEAD(SEA)	1	1.0	1	1.0								ĺ
TURTLES,UNC	0	1.3	2	1.0								
TUKTLES,UNC	8	1.3	3	1.0		l		1		1	1	ı

^{*} Handlines include bandit rig gear.