

4. FISHERY DATA UPDATE

The purpose of this section is to provide a summary of recent landings of HMS on a species by species basis, for both commercial and recreational fisheries.

4.1 Sharks

Commercial and recreational landings of large coastal, small coastal and pelagic shark species during recent years are summarized in the following tables.

Table 4.1 Commercial Landings of Large Coastal Sharks in lb dw: 2001-2006. (Sources: Cortés 2003; Cortés and Neer 2002, 2005; Cortés pers. comm.)

Large Coastal Sharks	2001	2002	2003	2004	2005	2006
Basking**	0	0	0	0	0	0
Bignose*	1,442	0	318	0	98	61
Bigeye sand tiger**	0	0	0	0	0	0
Blacktip	1,135,199	1,099,194	1,474,362	1,092,600	993,380	1,272,016
Bull	27,037	40,463	93,816	49,556	133,265	173,125
Caribbean Reef*	1	0	0	0	0	0
Dusky*	1,973	8,779	23,288	1,025	874	4,183
Galapagos*	0	0	0	0	0	0
Hammerhead, Great	0	0	0	0	0	0
Hammerhead, Scalloped	0	0	0	0	0	0
Hammerhead, Smooth	0	0	0	92	54	108
Hammerhead, Unclassified	69,356	108,160	150,368	116,546	197,067	153,592
Large Coastal, Unclassified	172,494	147,359	51,433	0	0	0
Lemon	24,453	56,921	80,688	67,810	71,805	62,738
Narrowtooth*	0	0	0	0	0	0
Night*	0	0	20	0	0	0
Nurse	387	69	70	317	97	2,258
Sandbar	1,407,550	1,863,420	1,425,628	1,223,241	1,282,477	1,516,497
Sand Tiger**	1,248	409	624	1,832	5,167	3,166
Silky	14,197	30,731	51,588	11,808	17,646	16,173
Spinner	6,970	8,447	12,133	14,806	44,150	96,259
Tiger	26,973	16,115	18,536	30,976	33,477	53,706
Whale**	0	0	0	0	0	0
White**	26	0	1,454	58	0	88
Unclassified, assigned to large coastal	525,661	771,450	908,077	603,229	527,026	397,851

Large Coastal Sharks	2001	2002	2003	2004	2005	2006
Unclassified, fins	23,988	142,565	181,431	137,375	110,613	145,928
Total (excluding fins)	3,414,967 (1,549 mt dw)	4,151,594 (1,883 mt dw)	4,292,403 (1,947 mt dw)	3,213,896 (1,458 mt dw)	3,306,583 (1,500 mt dw)	3,751,821 (1,698 mt dw)

* indicates species that were prohibited in the commercial fishery as of June 21, 2000.

** indicates species that were prohibited as of April 1997.

Table 4.2 Commercial Landings of Small Coastal Sharks in lb dw: 2001-2006. (Sources: Cortés and Neer 2002, 2005; Cortés 2003; Cortés pers. comm.)

Small coastal sharks	2001	2002	2003	2004	2005	2006
Atlantic Angel*	0	495	1,397	818	3,587	249
Blacknose	160,990	144,615	131,511	68,108	120,320	187,907
Bonnethead	63,461	36,553	38,614	29,402	33,295	33,911
Finetooth	303,184	185,120	163,407	121,036	107,327	80,536
Sharpnose, Atlantic	196,441	213,301	190,960	230,880	375,881	519,019
Sharpnose, Atlantic, fins	209	0	0	0	0	0
Sharpnose, Caribbean*	205	0	0	0	0	0
Unclassified Small Coastal	51	35,831	8,634	1,407	9,792	471
Total (excluding fins)	724,332 (329 mt dw)	615,915 (279 mt dw)	534,523 (242 mt dw)	451,651 (205 mt dw)	650,202 (295 mt dw)	822,093 (373 mt dw)

* indicates species that were prohibited in the commercial fishery as of June 21, 2000.

Table 4.3 Commercial Landings of Pelagic Sharks in lb dw: 2001-2006. (Sources: Cortés and Neer 2002, 2005; Cortés 2003; Cortés pers. comm.)

Pelagic Sharks	2001	2002	2003	2004	2005	2006
Bigeye thresher*	330	0	0	719	267	0
Bigeye sixgill*	0	0	0	0	0	0
Blue shark	65	137	6,324	423	0	588
Mako, longfin*	9,453	3,008	1,831	1,827	403	2,125
Mako, shortfin	171,888	159,840	151,428	217,171	188,608	107,267
Mako, Unclassified	73,556	58,392	33,203	50,978	35,241	27,231
Oceanic whitetip	922	1,590	2,559	1,082	713	338
Porbeagle	1,152	2,690	1,738	5,832	2,452	3,456
Sevengill*	0	0	0	0	0	0
Sixgill*	0	0	0	0	0	0
Thresher	56,893	53,077	46,502	44,915	24,280	32,549
Unclassified, pelagic	0	5,965	79,439	0	0	411

Pelagic Sharks	2001	2002	2003	2004	2005	2006
Unclassified, assigned to pelagic	31,636	182,983	314,300	356,522	18,057	12,936
Unclassified, pelagic, fins	12,239	0	0	41	0	0
Total (excluding fins)	345,895 (157 mt dw)	467,682 (212 mt dw)	637,324 (289 mt dw)	679,469 (308 mt dw)	270,021 (122 mt dw)	186,901 (85 mt dw)

* indicates species that were prohibited in the commercial fishery as of June 21, 2000.

Table 4.4 Estimates of Total Recreational Harvest of Atlantic Sharks: 2000-2006 (Numbers of Fish in Thousands). (Sources: Cortés and Neer 2005, Cortés, pers. comm. Estimates include prohibited species.)

Species Group	2000	2001	2002	2003	2004	2005	2006
LCS	140.0	137.2	82.8	88.8	66.6	86.2	59.5
Pelagic	13.3	3.8	4.7	4.3	5.0	5.4	18.1
SCS	199.9	212.5	153.8	133.7	126.0	119.1	121.7
Unclassified	10.9	24.5	5.4	18.1	27.9	47.4	7.3

Table 4.5 Recreational Harvest of Atlantic Large Coastal Sharks by Species, in Number of Fish: 2000-2006. (Sources: Cortés and Neer 2005, Cortés, pers. comm.)

LCS Species	2000	2001	2002	2003	2004	2005	2006
Basking**	0	0	0	0	0	0	0
Bignose*	0	0	0	0	17	0	0
Bigeye sand tiger**	0	0	0	0	0	0	0
Blacktip	73,998	49,488	39,756	40,402	30,872	44,831	31,724
Bull	6,075	4,117	1,823	3,455	4,883	1,377	4,284
Caribbean Reef*	59	268	741	0	652	5	47
Dusky*	3,116	5,993	1,047	2,806	142	3,050	191
Galapagos*	0	0	0	0	0	0	0
Hammerhead, Great	925	3,446	4	47	9	162	139
Hammerhead, Scalloped	3,781	1,494	1,358	2,956	930	5,212	537
Hammerhead, Smooth	2	703	2	1	0	0	2
Hammerhead, Unclassified	3,691	0	5,247	0	0	2,676	1,099
Lemon	5,434	5,884	4,921	4,876	5,578	506	1,145
Night*	24	0	0	0	0	15	1
Nurse	2,214	4,934	2,562	563	3,463	2,341	1,553
Sandbar	10,965	36,094	8,530	5,151	3,853	2,795	848
Sand tiger**	0	604	0	0	0	0	1,040
Silky	6,233	3,928	1,741	1,943	399	3,589	2,042
Spinner	4,810	3,384	3,732	4,483	3,435	3,055	2,022
Tiger	1,480	732	126	110	1	1,321	1,309

LCS Species	2000	2001	2002	2003	2004	2005	2006
Whale**	0	0	0	0	0	0	0
White**	0	0	0	0	0	0	0
Requiem shark unclassified	17,164	16,136	11,173	21,990	12,388	15,319	11,511
Total:	139,971	137,205	82,763	88,783	66,622	86,254	59,494

*indicates species that were prohibited in the recreational fishery as of July 1, 1999.

** indicates species that were prohibited as of April 1997.

Table 4.6 Recreational Harvest of Atlantic Pelagic Sharks by Species, in Number of Fish: 2000-2006.
(Sources: Cortés and Neer 2005, Cortés, pers. comm.)

Pelagic Shark Species	2000	2001	2002	2003	2004	2005	2006
Bigeye thresher*	0	0	65	0	0	0	42
Bigeye sixgill*	0	0	0	0	0	0	0
Blue Shark	7,011	950	0	376	0	31	980
Mako, Longfin*	0	0	0	0	0	0	0
Mako, Shortfin	5,813	2,827	3,206	3,922	4,964	3,857	3,363
Mako, Unclassified	0	0	0	0	0	0	0
Oceanic whitetip	0	0	0	0	0	0	0
Porbeagle	0	0	0	0	0	0	0
Sevengill*	0	0	0	0	0	0	0
Sixgill*	0	0	0	0	0	0	0
Thresher	529	0	1,467	0	0	1,504	13,747
Total:	13,353	3,777	4,738	4,298	4,964	5,392	18,132

* indicates species that were prohibited in the recreational fishery as of July 1, 1999.

Table 4.7 Recreational Harvest of Atlantic Small Coastal Sharks by Species, in Number of Fish: 2000-2006. (Sources: Cortés and Neer 2005, Cortés, pers. Comm..)

SCS Species	2000	2001	2002	2003	2004	2005	2006
Atlantic Angel*	0	0	0	0	0	0	0
Blacknose	10,410	14,885	11,438	6,615	15,215	7,110	9,947
Bonnethead	56,436	59,017	51,048	40,066	42,050	31,369	24,302
Finetooth	1,390	6,628	3,027	1,758	286	2,847	268
Sharpnose, Atlantic	130,727	131,912	88,297	85,299	68,421	77,712	87,180
Sharpnose, Caribbean*	0	0	0	0	0	0	0
Smalltail*	973	70	0	0	71	35	0
Total:	199,936	212,512	153,810	133,738	126,043	119,073	121,697

*indicates species that were prohibited in the recreational fishery as of July 1, 1999.

4.2 Tunas

The U.S. catch of tuna and tuna-like fishes (including swordfish, but excluding other billfishes) during recent years is summarized below (major gears only). (NMFS, Annual Report of the United States (to ICCAT), 2007).

Table 4.8 Annual Landings (MT) of Yellowfin Tuna from 2002 to 2006.						
Area	Gear	2002	2003	2004	2005	2006
NW Atlantic	Longline	400	272	659	394	703
	Rod and reel*	2,624	4,672	3,434	3,504	4,649
	Gillnet	5	1	3	0.1	5
	Trawl	0	2	2	0.2	0.7
	Handline	137	148	213	105	103
	Uncl	**	0	11	4	4
Gulf of Mexico	Longline	2,109	1,828	1,812	1,210	1,121
	Rod and reel*	200	640	247	147	258
	Handline	100	59	28	46	43
Caribbean	Longline	12	7	4	141	180
	Handline	7	9	7	10	8
NC Area 94a	Longline	0	5	**	0.5	0
SW Atlantic	Longline	52	42	17	0	0
	Total	5,646	7,685	6,437	5,562	7,075

Note: not all gears are represented in this Table; therefore some total values in the Table are a portion of the total U.S. landings of YFT.

* Rod and Reel catches and landings represent estimates of landings and dead discards based on statistical surveys of the U.S. recreational harvesting sector.

** ≤ 0.05 MT

Table 4.9 Landings (MT) of Skipjack Tuna from 2002 to 2006						
Area	Gear	2002	2003	2004	2005	2006
NW Atlantic	Longline	**	0.9	0.1	0.05	**
	Rod and reel*	23.3	34.0	27.3	8	35
	Gillnet	**	0.9	16.7	2	0.2
	Trawl	**	0.5	0.2	0.07	0.8
	Handline	0.2	0.2	0.6	0.9	0.2
	Trap	**	1.5	**	0	0.3
Gulf of Mexico	Longline	**	**	0.3	0.3	0
	Rod and reel*	13.2	11	6.3	3	6.4
	Handline	0.0	**	0.2	**	0
Caribbean	Longline	2.5	3.3	0.3	0.2	0.2
	Gillnet	0.6	0.4	0.3	0.06	**
	Handline	12.5	9.2	9.6	11	10
	Rod and reel*	33	16	40	4	8
Total		85.3	77.9	101.9	29.6	61

Note: not all gears are represented in this Table; therefore total values in the Table are a portion of the total U.S. landings of SKJ.

* Rod and Reel catches and landings represent estimates of landings and dead discards based on statistical surveys of the U.S. recreational harvesting sector.

** \leq 0.05 MT

Table 4.10 Landings (MT) of Bigeye Tuna by year for 2002-2006						
Area	Gear	2002	2003	2004	2005	2006
NW Atlantic	Longline	329	169	267	273	465
	Rod and reel*	50	189	95	165	422
	Handline	14	6	3	6	21
	Trawl	0.5	**	1	0.6	0
	Uncl	0.0	0.0	4	0.6	0.8
Gulf of Mexico	Longline	41	27	20	25	38
	Rod and reel*	0	0	6	0	24
	Handline	0.6	0.3	0.2	0.1	2
Caribbean	Longline	30	7	3.5	7	11
	Handline	0.0	0.0	0.06	**	0
NC Area 94a	Longline	45	37	5	7	3
SW Atlantic	Longline	91	45	14	0	0
	Total	600	480	419	484	987

Note: not all gears are represented in this Table; therefore total values in the Table are a portion of the total U.S. landings of BET.

* Rod and Reel catches and landings represent estimates of landings and dead discards based on statistical surveys of the U.S. recreational harvesting sector.

** \leq 0.05 MT

Table 4.11 Landings (MT) of Bluefin Tuna for 2002 to 2006						
Area	Gear	2002	2003	2004	2005	2006
NW Atlantic	Longline	7.8	16.3	28.8	22.3	30
	Handline	4.5	2.5	1.5	2.3	4.7
	Purse Seine	207.7	265.4	31.8	178.3	3.6
	Harpoon	55.5	87.9	41.2	31.5	30.3
	* Rod and reel (>145 cm LJFL)	1008.4	684.8	329.0	254.4	217.2
	* Rod and reel (<145 cm LJFL)	519.3	314.6	387.4	170.4	158.2
Gulf of Mexico	Longline	32.8	53.8	67.3	45.7	17.5
	* Rod and reel	1.5	0.0	0.0	0.0	0.6
NC area 94a	Longline	9.3	11.3	12.1	13	10.1
	TOTAL	1847	1437	899	718	472

Table 4.12 Landings (MT) of Albacore Tuna for 2002 to 2006						
Area	Gear	2002	2003	2004	2005	2006
NW Atlantic	Longline	124.0	95.6	106.6	88.9	82.3
	Gillnet	2.6	0.1	4.9	6	0.8
	Handline	3.9	1.4	6.1	3	2.5
	Trawl	0.3	**	2.7	1.7	1.2
	Rod and reel*	323.0	333.8	500.5	356	284
	Uncl	0.0	0.0	3.6	9.9	6.7
Gulf of Mexico	Longline	9.5	7.7	9.8	6.9	7.6
	Handline	0.0	**	0.0	0.2	0.1
Caribbean	Longline	8.4	4.0	3.2	12	10.5
	Trap	0.6	0.2	0.0	0.0	0.0
	Handline	2.7	2.0	2.1	1	0.4
NC Area 94a	Longline	4.8	1.6	0.2	0.6	**
SW Atlantic	Longline	8.3	2.0	0.5	0.0	0.0
	Total	488	448	640	486	396

Note: not all gears are represented in these Tables; therefore total values in the Table are a portion of the total U.S. landings of ALB and BFT.

** \leq 0.05 MT

* Rod and Reel catches and landings represent estimates of landings and dead discards when available based on statistical surveys of the U.S. recreational harvesting sector.

4.3 Swordfish

The U.S. catch of swordfish during recent years is summarized below (major gears only). (NMFS, Annual Report of the United States (to ICCAT), 2007).

Table 4.13 Catches and Landings (MT) of Swordfish for 2002 to 2006						
Area	Gear	2002	2003	2004	2005	2006
NW Atlantic	* Longline	1,132.8	1,341.3	1,169.6	1,096.3	1,154.5
	Gillnet	0.1	0.0	**	0.0	0.0
	Handline	8.8	10.8	18.7	34.4	32.4
	Trawl	3.9	6.0	8.3	8.2	3.7
	* unclassified	1.6	1.6	3.9	4.7	5.1
	Harpoon	2.8	0.0	0.5	0.0	0.3
	Rod and Reel***	21.5	5.9	24.3	53.1	50.6
Gulf of Mexico	* Longline	549.1	507.6	453	480.9	324.2
	* unclassified	5.7	3.4	**	4.1	2.7
	Rod and Reel***	0.0	**	0.5	1.5	2.1
	Handline	2.9	9.8	4	0.3	4.3
Caribbean	* Longline	329.0	274.5	295.9	143.5	88.9
	* unclassified	0.2	0.15	**	0.7	0
	Rod and Reel***	0.0	0.0	0.4	6.6	0
NC Area 94a	* Longline	587.9	632.8	599.9	552.3	379.6
	* unclassified	0.2	0.3	0.1	1.2	0.0
S Atlantic	* Longline	199.9	20.9	15.7	0.0	0.0
	TOTAL	2,606.5	2,815	2,594	2,387	2,048

Note: not all gears are represented in this Table; therefore total values in the Table are a portion of the total U.S. landings of SWO.

* includes *landings* and *estimated discards* from scientific observer and logbook sampling programs.

** \leq 0.5 MT

*** Rod and Reel catches and landings represent estimates of landings and dead discards when available based on statistical surveys of the U.S. recreational harvesting sector.

4.4 Blue and White Marlin

Reported recreational catches of blue and marlin over the last several years are summarized in the following table.

Table 4.14 Blue and White Marlin Recreational Landings

YEAR	BLUE MARLIN	WHITE MARLIN	TOTAL
2001	77	116	193
2002	88	191	279
2003	108	23	131
2004	31	118	149
2005	76	31	107
2006	64	66	130

References for Section 4:

Cortés, E. and J.A. Neer. 2002. Updated catches of sharks. Shark Bowl Working Document SB/02/15. Document presented at the 2002 Shark Evaluation Workshop, NMFS, Panama City, Florida.

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NMFS. 2007. Annual Report of the United States. ANN/2007. 47 pp.