

U.S. MARINE RECREATIONAL FISHERIES

ESTIMATED WEIGHT (LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES, 1993-1997 FOR THE ATLANTIC AND GULF COASTS

Year	Atlantic cod									
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	----- Thousands of pounds -----									
1993...	5,190	17	1,949	20	0	0	0	0	7,139	14
1994...	4,083	25	203	27	0	0	0	0	4,285	24
1995...	3,437	20	1,164	17	0	0	0	0	4,601	16
1996...	3,260	21	72	27	0	0	0	0	3,332	20
1997...	2,550	25	71	11	0	0	0	0	2,622	24
Year	Atlantic croaker									
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	----- Thousands of pounds -----									
1993...	0	0	2,481	9	537	8	593	10	3,611	6
1994...	0	0	4,019	6	851	9	602	17	5,472	5
1995...	0	0	3,374	8	661	18	392	18	4,426	7
1996...	0	0	3,815	8	413	9	433	12	4,661	7
1997...	0	0	7,258	10	492	12	328	14	8,078	9
Year	Atlantic mackerel									
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	----- Thousands of pounds -----									
1993...	1,255	12	66	44	0	0	0	0	1,326	12
1994...	3,675	16	85	52	0	0	0	0	3,760	16
1995...	1,847	13	907	36	0	0	0	0	2,754	15
1996...	2,699	12	422	25	2	59	0	0	3,123	11
1997...	2,636	14	1,190	20	0	0	0	0	3,826	11
Year	Black drum									
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	----- Thousands of pounds -----									
1993...	0	0	2	42	428	13	1,478	13	1,908	11
1994...	0	0	3	74	693	13	1,177	20	1,873	13
1995...	0	0	155	42	658	16	1,307	9	2,121	8
1996...	0	0	99	67	568	13	1,159	8	1,826	8
1997...	0	0	48	0	554	14	1,750	12	2,351	9
Year	Black sea bass									
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	----- Thousands of pounds -----									
1993...	49	16	4,776	22	560	16	509	16	5,894	18
1994...	37	53	2,890	13	623	17	531	11	4,081	10
1995...	64	27	6,099	14	588	12	288	11	7,040	12
1996...	85	19	5,812	15	654	13	249	11	6,801	13
1997...	67	36	4,178	9	526	14	304	15	5,075	8

(1) Gulf of Mexico estimates do not include Texas data.

Note:--Est = estimate. PSE (%) = Proportional standard error.

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Year	Bluefish								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	----- Thousands of pounds -----									
1993. . .	9,209	6	8,735	7	2,348	7	349	22	20,641	4
1994. . .	7,996	8	6,284	8	1,261	6	451	21	15,992	5
1995. . .	5,992	8	6,973	9	1,209	9	600	26	14,775	5
1996. . .	6,644	14	7,050	10	1,040	8	354	14	15,089	8
1997. . .	4,881	8	7,405	10	1,958	8	250	17	14,494	6
Year	Dolphin								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	----- Thousands of pounds -----									
1993. . .	143	21	1,783	40	5,368	6	3,524	13	10,818	9
1994. . .	0	0	393	30	9,619	8	2,765	15	12,778	7
1995. . .	0	0	754	27	12,142	5	6,896	9	19,792	5
1996. . .	0	0	522	49	7,387	6	4,640	12	12,549	6
1997. . .	0	0	208	44	10,380	7	11,934	14	22,521	8
Year	Gag								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	----- Thousands of pounds -----									
1993. . .	0	0	0	0	544	22	2,282	8	2,827	8
1994. . .	0	0	0	0	561	21	1,947	9	2,507	9
1995. . .	0	0	0	0	303	19	2,628	8	2,930	8
1996. . .	0	0	0	0	278	21	1,964	8	2,242	8
1997. . .	0	0	0	0	278	32	2,656	9	2,934	9
Year	Gray snapper								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	----- Thousands of pounds -----									
1992. . .	0	0	0	0	369	12	1,091	7	1,460	6
1993. . .	0	0	0	0	245	13	1,124	8	1,369	7
1994. . .	0	0	0	0	281	10	1,136	9	1,417	8
1995. . .	0	0	0	0	320	14	1,058	8	1,378	7
1996. . .	0	0	0	0	231	13	955	8	1,187	7
1997. . .	0	0	0	0	373	19	877	11	1,249	10
Year	Gray triggerfish								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	----- Thousands of pounds -----									
1993. . .	1	0	106	25	177	17	1,182	11	1,465	9
1994. . .	2	78	39	32	142	13	1,165	11	1,348	10
1995. . .	0	0	65	32	97	15	1,017	9	1,179	8
1996. . .	1	65	155	43	183	15	496	11	836	11
1997. . .	0	0	167	31	168	22	589	10	925	10

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Year	Greater amberjack									
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	----- Thousands of pounds -----									
1993...	0	0	254	23	578	21	3,498	17	4,330	14
1994...	0	0	0	0	1,626	19	1,562	16	3,188	12
1995...	0	0	0	0	623	21	811	15	1,434	13
1996...	0	0	6	57	970	14	994	10	1,970	9
1997...	0	0	0	0	495	21	1,199	22	1,694	17
Year	King mackerel									
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	----- Thousands of pounds -----									
1993...	0	0	141	50	4,285	7	4,119	8	8,545	5
1994...	0	0	11	41	4,176	7	4,634	8	8,821	5
1995...	0	0	15	0	5,008	7	4,697	7	9,719	5
1996...	0	0	7	71	4,314	6	5,700	7	10,020	5
1997...	0	0	127	50	6,377	6	5,416	8	11,921	5
Year	Red drum									
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	----- Thousands of pounds -----									
1993...	0	0	46	11	1,168	8	8,710	5	9,924	5
1994...	0	0	4	0	1,439	9	7,528	5	8,970	4
1995...	0	0	66	0	1,661	11	11,939	4	13,665	4
1996...	0	0	2	0	1,333	8	11,708	5	13,043	4
1997...	0	0	2	0	798	10	12,011	5	12,811	5
Year	Red snapper									
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	----- Thousands of pounds -----									
1993...	0	0	0	0	142	27	4,136	7	4,278	7
1994...	0	0	0	0	201	36	3,734	8	3,935	8
1995...	0	0	0	0	67	20	2,876	8	2,943	8
1996...	0	0	0	0	102	35	2,617	8	2,719	8
1997...	0	0	0	0	88	44	4,456	11	4,544	11
Year	Sand seatrout									
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	----- Thousands of pounds -----									
1993...	0	0	0	0	0	0	2,090	10	2,090	10
1994...	0	0	0	0	0	0	2,884	6	2,884	6
1995...	0	0	0	0	0	0	2,002	8	2,002	8
1996...	0	0	0	0	0	0	1,889	8	1,889	8
1997...	0	0	0	0	0	0	1,453	15	1,453	15

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Year	Scup								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
----- Thousands of pounds -----										
1993...	2,275	13	920	12	4	18	0	0	3,198	10
1994...	1,542	16	1,076	16	10	57	0	0	2,629	12
1995...	1,013	13	299	29	1	54	0	0	1,313	12
1996...	1,618	10	621	14	0	0	0	0	2,239	8
1997...	809	14	384	28	12	41	0	0	1,205	13
Year	Sheepshead								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
----- Thousands of pounds -----										
1993...	0	0	0	0	1,879	13	4,577	6	6,456	6
1994...	0	0	0	0	2,902	10	2,734	8	5,636	6
1995...	0	0	9	77	2,597	11	4,901	6	7,507	6
1996...	0	0	5	58	1,702	8	3,348	6	5,055	5
1997...	0	0	2	0	1,060	11	3,790	9	4,852	8
Year	Southern flounder								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
----- Thousands of pounds -----										
1993...	0	0	0	0	693	8	655	9	1,348	6
1994...	0	0	0	0	1,132	7	664	8	1,796	5
1995...	0	0	0	0	924	9	715	8	1,639	6
1996...	0	0	1	0	478	11	780	8	1,258	7
1997...	0	0	19	57	788	9	677	8	1,483	6
Year	Spanish mackerel								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
----- Thousands of pounds -----										
1993...	1	0	175	18	1,262	7	1,941	7	3,378	5
1994...	0	0	214	14	1,158	6	1,762	6	3,135	4
1995...	0	0	145	29	672	8	1,630	9	2,447	6
1996...	0	0	81	46	986	9	1,637	7	2,704	6
1997...	0	0	22	35	1,415	8	2,095	9	3,533	6
Year	Spot								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
----- Thousands of pounds -----										
1993...	0	0	1,591	11	1,780	7	108	56	3,479	7
1994...	0	0	1,956	6	2,372	8	55	42	4,383	5
1995...	0	0	1,571	10	1,536	7	50	42	3,158	6
1996...	0	0	832	12	1,214	12	5	51	2,051	9
1997...	0	0	1,724	13	976	12	3	44	2,703	9

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Year	Spotted seatrout									
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	----- Thousands of pounds -----									
1993...	0	0	214	22	1,554	7	8,295	5	10,064	4
1994...	0	0	202	14	1,633	6	9,342	4	11,178	3
1995...	0	0	178	18	2,030	8	10,361	5	12,569	4
1996...	0	0	78	22	803	8	9,665	5	10,545	4
1997...	0	0	299	21	1,079	8	9,431	5	10,808	5
Year	Striped bass									
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	----- Thousands of pounds -----									
1993...	1,846	10	3,803	12	16	38	1	0	5,666	9
1994...	2,284	10	4,443	9	77	31	9	37	6,813	7
1995...	2,657	8	8,365	9	237	15	5	17	11,264	7
1996...	3,441	9	10,885	6	288	13	6	36	14,619	5
1997...	5,132	7	10,214	7	765	13	13	63	16,125	5
Year	Summer flounder									
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	----- Thousands of pounds -----									
1993...	552	11	7,812	5	479	7	0	0	8,844	4
1994...	980	9	7,886	4	481	7	0	0	9,347	4
1995...	858	11	4,394	5	251	23	0	0	5,503	5
1996...	1,232	8	8,777	4	407	7	0	0	10,416	3
1997...	1,058	13	10,442	5	381	9	0	0	11,881	4
Year	Tautog									
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	----- Thousands of pounds -----									
1993...	1,673	10	4,244	11	10	64	0	0	5,927	8
1994...	1,119	14	2,346	19	3	0	0	0	3,468	13
1995...	959	16	3,641	10	3	33	0	0	4,604	9
1996...	918	13	2,336	13	12	31	0	0	3,266	10
1997...	551	15	1,587	14	58	52	0	0	2,196	11

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Year	Vermilion snapper								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Est	PSE (%)
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)		
----- Thousands of pounds -----										
1993...	0	0	0	0	98	23	759	11	857	10
1994...	0	0	0	0	73	19	608	13	681	12
1995...	0	0	0	0	44	21	564	11	608	10
1996...	0	0	0	0	79	45	229	14	309	15
1997...	0	0	0	0	73	20	342	16	415	14
Year	Weakfish								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Est	PSE (%)
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)		
----- Thousands of pounds -----										
1993...	7	59	887	11	209	13	0	0	1,102	9
1994...	0	0	1,471	11	324	11	0	0	1,796	10
1995...	0	0	1,689	8	163	18	0	0	1,852	7
1996...	0	0	2,849	7	102	10	0	0	2,951	7
1997...	1	0	3,424	8	261	12	0	0	3,687	8
Year	Winter flounder								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Est	PSE (%)
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)		
----- Thousands of pounds -----										
1993...	559	12	1,570	30	0	0	0	0	2,130	22
1994...	393	12	1,104	17	0	0	0	0	1,497	13
1995...	389	23	1,161	13	0	0	0	0	1,549	11
1996...	328	12	1,383	14	0	0	0	0	1,712	11
1997...	501	16	1,000	16	0	0	0	0	1,501	12
Year	All fishes								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Est	PSE (%)
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)		
----- Thousands of pounds -----										
1993...	24,298	5	55,082	4	37,346	2	68,519	2	185,244	2
1994...	23,915	6	45,859	3	50,089	3	63,572	2	183,436	1
1995...	19,788	6	58,870	8	50,444	2	73,055	2	202,157	3
1996...	21,286	6	55,744	3	43,757	3	64,567	2	185,354	2
1997...	19,319	5	60,237	3	49,316	3	79,314	3	208,185	2

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Note:--Est = estimate. PSE (%) = Proportional standard error.