

VPA Tables and Figures

Table D1. Total Atlantic Coast harvest of striped bass in metric tons and numbers from 1982 to 2001.

Year	<u>Commercial</u>		<u>Recreational</u>		<i>Total</i>	
	MT	N	MT	N	MT	N
1982	992	428,630	1,144	217,256	2,136	645,886
1983	639	357,541	1,217	299,444	1,856	656,985
1984	1,104	870,871	579	114,463	1,683	985,334
1985	4,312	174,621	372	133,522	4,684	308,143
1986	68	17,681	501	114,623	569	132,304
1987	63	13,552	388	43,755	451	57,307
1988	117	33,310	570	86,725	687	120,035
1989	91	7,402	332	37,562	423	44,964
1990	313	115,636	1,010	163,242	1,323	278,878
1991	460	153,798	1,653	262,469	2,113	416,267
1992	638	230,714	1,830	300,180	2,468	530,894
1993	777	312,860	2,564	428,719	3,341	741,579
1994	805	307,443	3,084	565,167	3,889	872,610
1995	1,555	534,914	5,675	1,089,183	7,230	1,624,097
1996	2,178	766,518	6,003	1,175,112	8,181	1,941,630
1997	2,679	1,058,181	7,267	1,515,296	9,946	2,573,477
1998	2,936	1,223,828	5,771	1,366,353	8,707	2,590,181
1999	2,941	1,103,812	6,245	1,319,794	9,186	2,423,606
2000	3,003	1,051,275	7,756	1,924,001	10,759	2,975,276
2001	2,826	941,733	8,889	2,012,314	11,715	2,954,047

Table D2. Total 2001 striped bass discard and harvest in numbers and % of total by fishery component.

Fishery Component	Discard	Discard Losses	Harvest	Total Catch
Recreational	13,456,350	1,076,508	2,012,314	3,088,822
Commercial	2,023,439	310,900	941,733	1,252,633
Sampling			2,343	2,343
Total	15,479,789	1,387,408	2,956,390	4,343,798

Percent of Total

Fishery Component	Discard Losses	Harvest	Total Catch
Recreational	24.78%	46.33%	71.11%
Commercial	7.16%	21.68%	28.84%
Sampling		0.05%	0.05%
Total	31.94%	68.06%	100.00%

Table D3. Atlantic Coast striped bass commercial harvest in numbers at age by state, 2001.

State	Age															Total	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
Maine																	0
New Hampshire																	0
Massachusetts	0	0	0	0	0	0	1,877	7,090	6,673	8,342	9,176	3,962	2,294	626	208	40,248	
Rhode Island	0	0	16	122	779	1,543	1,841	1,841	744	934	1,139	589	614	458	297	10,917	
Connecticut																	0
New York	0	0	0	209	6,842	10,682	10,263	23,668	3,700	1,745	768	349	70				58,296
New Jersey																	0
Delaware	0	0	34	1,247	10,932	9,448	5,926	5,349	946	89	402						34,373
Maryland	0	0	81,433	141,666	169,554	83,660	32,555	14,582	5,389	4,245	2,749	1,983	795	199			538,808
PRFC	0	0	1,492	40,281	32,396	6,394	3,410	2,558	853	213	0	0	0	213			87,809
Virginal	0	165	3,215	6,077	20,234	26,951	30,885	33,327	9,352	7,183	4,050	4,998	750	1,000	159		148,346
North Carolina	0	0	0	0	0	0	69	3,680	5,710	8,415	3,676	878	439	69			22,936
Total	0	165	86,190	189,602	240,736	138,678	86,825	92,095	33,367	31,165	21,960	12,759	4,962	2,564	665		941,733

Table D4. Estimated Atlantic Coast commercial discard losses at age for 2001.

Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total
2001	1	2,638	58,079	77,958	88,808	29,410	18,877	11,613	9,664	6,371	4,778	1,957	737	10	0	310,900

Table D5. Reported scientific removals at age for 2001.

Year	Age															Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
2001	0	15	337	956	660	120	63	56	50	51	21	10	3	1		2,343

Table D6. Total Atlantic Coast striped bass recreational landings in numbers at age by state, 2001.

State	Age															Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
Maine	0	0	12,070	19,382	17,763	5,406	1,862	3,206	7	35	115	42	29	27	6	59,947
New Hampshire	0	0	0	397	1,165	2,289	3,124	2,394	1,804	1,192	1,604	895	429	0	0	15,291
Massachusetts	0	0	0	5,058	6,488	38,087	85,493	71,709	41,694	14,091	13,709	6,312	3,948	1,442	0	288,032
Rhode Island	0	0	0	262	12,953	24,631	19,322	14,236	3,082	1,787	1,746	1,112	661	197	138	80,127
Connecticut	0	0	0	1,027	12,187	11,205	7,608	6,632	3,575	167	312	1,001	1,460	2,731	5,507	53,412
New York	0	0	0	4,173	23,885	55,309	48,074	36,796	7,233	5,135	4,351	1,270	2,026	541	917	189,710
New Jersey	0	0	0	18,505	105,286	159,608	116,225	70,521	39,494	21,947	17,285	6,330	2,989	1,495	523	560,208
Delaware	0	0	736	432	2,026	3,481	10,012	13,089	3,312	1,655	2,926	2,548	671	307	0	41,195
Maryland	0	47,386	81,500	87,717	31,086	33,625	21,125	18,583	19,320	14,548	15,510	5,525	4,434	1,241	956	382,557
Virginia	0	559	17,487	31,868	75,877	62,904	45,005	40,275	8,216	7,581	4,483	5,528	893	1,041	102	301,819
North Carolina	0	0	0	4,214	3,766	181	2,590	9,008	8,358	5,888	6,011	0	0	0	0	40,016
Total	0	47,945	111,793	173,036	292,482	396,725	360,440	286,449	136,095	74,025	68,051	30,562	17,541	9,022	8,149	2,012,314

Table D7. Total Atlantic Coast striped bass recreational discard losses in numbers at age by state, 2001.

State	Age															Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
Maine	110	3,858	20,848	17,224	13,401	5,883	3,955	3,443	554	134	134	51	32	11	4	69,639
New Hampshire	0	654	2,054	2,800	2,843	1,587	1,268	1,303	279	104	124	67	50	12	0	13,147
Massachusetts	0	6,233	27,455	75,063	89,902	74,347	69,146	60,716	16,978	4,439	4,725	1,979	1,320	258	310	432,872
Rhode Island	0	870	2,103	1,090	5,960	7,839	5,788	4,159	844	489	478	304	181	54	38	30,197
Connecticut	3,367	14,178	10,722	8,064	26,053	8,950	4,608	5,051	3,633	620	1,063	1,152	443	177	532	88,617
New York	276	5,567	11,569	6,884	14,025	10,683	7,969	4,999	1,128	703	590	184	283	85	134	65,073
New Jersey	99	3,824	5,415	14,468	28,558	13,500	6,373	2,820	1,195	522	343	88	42	14	0	77,262
Delaware	0	13	437	568	2,444	2,457	3,500	3,516	725	262	438	342	74	40	0	14,816
Maryland	25,426	62,527	77,792	30,745	19,194	4,643	6,072	2,974	883	466	165	146	94	34	43	231,204
Virginia	5,463	13,434	16,714	6,606	4,124	998	1,305	639	190	100	35	31	20	7	9	49,676
North Carolina	0	0	6	290	1,366	828	555	553	246	94	58	0	0	0	9	4,006
Total	34,741	111,159	175,115	163,803	207,871	131,714	110,540	90,174	26,655	7,933	8,154	4,346	2,541	693	1,079	1,076,508

Table D8. Atlantic Coast striped bass commercial landings in numbers at age, 1982-2001.

Year	Age															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total
1982	0	45,129	200,221	117,158	22,927	5,035	3,328	2,861	1,871	4,407	5,837	7,639	2,509	2,810	6,898	428,630
1983	0	54,348	120,639	120,999	38,278	7,416	1,954	677	607	1,690	1,314	2,375	2,656	1,856	2,733	357,541
1984	0	478,268	270,140	55,598	30,580	21,688	6,441	1,744	1,020	771	146	279	1,096	1,042	2,058	870,871
1985	0	53,699	45,492	7,545	9,448	19,248	21,569	6,581	3,692	1,514	466	607	493	894	3,373	174,621
1986	0	639	6,020	3,207	180	703	1,425	1,199	546	182	105	220	288	963	2,004	17,681
1987	0	0	3,087	4,265	1,618	252	1,104	1,075	448	233	95	273	302	235	565	13,552
1988	0	0	2,086	3,961	15,491	6,469	2,803	539	541	218	266	108	250	41	537	33,310
1989	0	0	0	0	0	139	1,111	959	1,007	631	475	164	343	444	2,129	7,402
1990	0	650	12,551	48,024	29,596	15,122	3,111	2,357	1,147	519	272	130	428	322	1,407	115,636
1991	0	2,082	22,430	44,723	41,048	21,614	8,546	4,412	4,816	1,163	269	125	80	553	1,937	153,798
1992	0	640	32,277	58,009	46,661	41,581	22,186	11,514	8,746	6,314	1,062	464	169	346	745	230,714
1993	0	1,848	21,073	93,868	87,447	42,112	32,485	13,829	8,396	6,420	3,955	763	184	76	404	312,860
1994	0	1,179	22,873	71,614	101,512	48,269	28,530	14,886	8,902	5,323	2,513	1,250	198	68	326	307,443
1995	0	6,726	35,190	114,519	134,709	98,471	38,918	34,191	37,324	21,827	8,364	3,166	997	363	149	534,914
1996	0	557	50,102	127,825	179,031	161,361	120,693	51,995	29,907	18,864	11,663	9,674	2,264	1,134	1,449	766,518
1997	0	335	96,860	293,511	225,218	201,397	103,129	60,000	33,262	18,888	11,811	7,861	2,753	2,178	978	1,058,181
1998	0	3,122	65,861	209,898	526,183	192,473	70,124	59,604	44,017	25,365	14,592	5,878	3,837	1,387	1,487	1,223,828
1999	0	7,344	93,998	233,720	275,305	235,925	76,755	47,252	54,777	35,387	24,006	9,883	6,832	1,836	795	1,103,812
2000	0	0	50,392	217,214	308,615	183,048	127,913	56,940	38,767	42,264	15,849	5,434	2,614	1,593	633	1,051,275
2001	0	165	86,190	189,602	240,736	138,678	86,825	92,095	33,367	31,165	21,960	12,759	4,962	2,564	665	941,733

Table D9. Atlantic Coast striped bass commercial discard losses in numbers at age, 1982-2001.

year	age															total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1982	0	31,645	3,644	11,456	5,623	1,291	2,397	1,014	369	92	85	0	0	7	0	57,624
1983	0	24,067	1,453	2,878	7,761	2,311	610	610	262	174	0	0	0	0	0	40,127
1984	0	33,575	1,611	5,812	9,734	11,272	2,815	117	586	66	0	52	0	0	0	65,639
1985	0	7,728	30,472	5,939	10,891	3,395	2,742	1,045	261	131	131	0	0	0	0	62,734
1986	0	5,841	20,758	100,067	27,989	13,315	4,295	1,415	346	0	0	0	0	0	0	174,024
1987	0	4,206	14,382	28,597	51,389	16,940	6,520	1,319	1,011	395	111	86	111	0	0	125,066
1988	0	6,142	22,593	36,616	70,959	71,694	23,232	9,116	3,110	1,653	218	195	24	0	0	245,552
1989	0	13,854	50,240	49,029	83,396	82,757	33,479	15,502	6,342	705	1,409	1,409	663	41	0	338,827
1990	0	14,526	68,713	80,935	111,888	115,702	71,600	36,256	5,948	1,539	1,401	1,503	0	0	0	510,011
1991	79	12,632	37,009	64,210	77,335	56,894	36,912	24,857	6,610	4,071	6,542	16	0	0	0	327,167
1992	117	3,698	34,218	36,746	44,412	34,688	14,798	11,179	3,398	2,356	991	0	0	0	0	186,601
1993	0	7,449	50,160	79,011	95,116	63,487	20,941	15,351	9,270	4,606	1,651	536	260	0	0	347,839
1994	0	31,770	47,169	45,081	88,122	84,570	39,229	12,524	6,223	3,674	712	415	30	0	0	359,518
1995	0	72,822	75,520	53,551	94,158	121,592	61,447	19,083	7,569	4,269	2,290	2,346	807	0	0	515,454
1996	0	27,133	114,085	76,336	61,884	58,787	30,835	14,916	6,148	3,989	159	502	50	0	0	394,824
1997	476	7,108	64,352	61,871	30,602	20,951	14,002	6,592	1,963	4,309	2,658	801	1,060	0	0	216,743
1998	0	13,233	53,899	98,510	83,288	29,197	12,970	12,591	7,860	4,372	3,891	2,419	3,311	124	367	326,031
1999	984	58,076	49,894	43,744	55,740	14,477	5,213	3,704	1,980	1,304	648	612	240	3	0	236,620
2000	196	178,457	189,933	157,291	62,699	33,918	26,938	7,831	4,111	3,876	801	863	41	17	25	666,996
2001	0	2,638	58,079	77,958	88,808	29,410	18,877	11,613	9,664	6,371	4,778	1,957	737	10	0	310,900

Table D10. Atlantic Coast striped bass recreational harvest and discard losses in numbers at age, 1982-2001.

Year	age															Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+	
1982	1,810	28,781	52,833	92,221	29,879	12,854	18,488	12,927	9,453	6,094	5,095	6,029	938	1,276	1,233	279,911
1983	3,625	31,912	56,144	69,265	103,980	29,559	16,149	2,837	2,026	1,845	3,267	3,269	2,220	2,203	1,880	330,182
1984	5,563	30,909	30,946	21,015	20,060	18,720	9,025	2,807	510	1,242	547	5	1,087	3,199	2,657	148,293
1985	1,311	11,102	25,995	26,999	38,364	20,464	19,211	9,658	2,397	1,760	447	220	29	23	5,509	163,489
1986	11,332	14,529	37,064	29,602	21,730	17,954	14,647	21,383	8,299	5,078	3,250	1,344	587	1,561	4,713	193,072
1987	1,368	6,709	20,160	18,560	14,254	7,849	5,580	4,096	4,925	2,355	1,242	1,608	2,889	1,851	6,963	100,408
1988	2,566	24,740	17,076	22,645	20,650	19,753	14,563	14,756	10,344	3,902	3,192	2,949	2,152	2,991	3,565	165,844
1989	729	22,140	29,416	19,216	21,499	12,542	11,055	4,565	3,074	2,422	1,350	392	909	1,122	3,196	133,626
1990	2,123	31,055	43,205	58,871	31,731	34,344	29,368	29,259	13,600	5,198	3,388	1,874	3,521	3,075	4,918	295,530
1991	1,713	58,121	85,813	99,784	43,567	22,929	45,853	53,651	47,331	18,855	7,362	2,613	2,544	2,751	14,465	507,353
1992	2,797	41,431	133,156	94,464	86,059	33,254	25,436	45,087	46,239	36,112	7,248	3,606	1,554	4,579	8,549	569,572
1993	287	60,335	114,073	154,451	105,949	79,780	33,126	38,157	64,920	65,119	35,527	8,028	4,109	1,097	11,327	776,285
1994	5,655	112,473	278,783	173,947	178,115	99,550	67,673	59,288	84,757	71,964	32,788	20,638	3,131	1,455	9,417	1,199,634
1995	3,838	347,272	348,369	279,759	162,474	250,606	104,445	137,595	106,747	62,459	41,591	10,943	7,720	1,562	3,310	1,868,692
1996	465	64,983	475,768	430,833	292,853	237,424	285,000	141,528	104,054	44,865	30,222	34,487	11,419	3,253	1,052	2,158,205
1997	2,057	278,024	325,236	494,939	360,153	371,499	288,376	305,724	165,092	97,283	45,173	21,325	8,470	5,596	3,816	2,772,763
1998	26,421	167,050	365,650	398,264	515,548	289,268	197,340	192,807	163,616	84,105	76,586	36,875	25,688	13,375	15,918	2,568,510
1999	8,162	50,834	287,988	377,852	320,364	463,488	254,502	175,799	136,715	101,802	72,950	34,535	18,610	11,174	6,196	2,320,972
2000	37,743	145,384	177,411	611,244	648,639	563,116	583,058	246,999	117,697	95,309	42,948	22,994	12,530	6,580	6,710	3,318,362
2001	34,741	159,104	286,908	336,838	500,352	528,438	470,980	376,624	162,750	81,958	76,205	34,909	20,081	9,715	9,219	3,088,822

Table D11. Total Atlantic Coast striped bass catch in numbers at age, including scientific sampling, estimated commercial and recreational discard losses, 1982-2001.

Year	Age															Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1982	1,810	105,555	256,699	220,835	58,429	19,180	24,213	16,802	11,692	10,593	11,017	13,668	3,447	4,093	8,131	766,165
1983	3,625	110,327	178,236	193,141	150,019	39,286	18,713	4,125	2,895	3,709	4,581	5,644	4,876	4,059	4,613	727,849
1984	5,563	542,751	302,698	82,425	60,374	51,680	18,280	4,668	2,117	2,078	693	336	2,183	4,241	4,715	1,084,802
1985	1,311	72,529	101,959	40,483	58,703	43,106	43,522	17,283	6,351	3,404	1,043	827	522	917	8,882	400,844
1986	11,332	21,009	63,841	132,875	49,899	31,972	20,367	23,997	9,191	5,260	3,355	1,564	875	2,524	6,717	384,778
1987	1,368	10,915	37,629	51,422	67,260	25,041	13,204	6,490	6,384	2,982	1,448	1,968	3,302	2,086	7,528	239,026
1988	2,566	30,882	41,755	63,222	107,100	97,917	40,598	24,411	13,995	5,773	3,676	3,251	2,426	3,032	4,102	444,706
1989	729	35,994	79,655	68,244	104,896	95,437	45,645	21,026	10,423	3,758	3,234	1,965	1,915	1,608	5,325	479,855
1990	2,123	46,231	124,469	187,830	173,215	165,168	104,079	67,871	20,695	7,256	5,061	3,507	3,949	3,397	6,325	921,176
1991	1,792	72,836	145,252	208,716	161,950	101,438	91,311	82,920	58,757	24,090	14,173	2,755	2,624	3,304	16,402	988,318
1992	2,914	45,769	199,651	189,219	177,132	109,523	62,419	67,781	58,384	44,782	9,301	4,070	1,723	4,925	9,294	986,887
1993	287	69,633	185,306	327,330	288,512	185,379	86,551	67,337	82,587	76,145	41,133	9,327	4,553	1,173	11,731	1,436,983
1994	5,655	145,422	348,825	290,641	367,749	232,389	135,432	86,698	99,882	80,962	36,013	22,302	3,359	1,523	9,743	1,866,595
1995	3,838	426,821	459,079	447,829	391,341	470,669	204,809	190,869	151,640	88,555	52,246	16,455	9,524	1,925	3,459	2,919,060
1996	465	92,673	639,954	634,993	533,768	457,572	436,529	208,439	140,109	67,719	42,043	44,663	13,733	4,387	2,501	3,319,547
1997	2,533	285,466	486,449	850,321	615,973	593,847	405,508	372,316	200,317	120,479	59,642	29,987	12,282	7,774	4,794	4,047,687
1998	26,421	183,404	485,409	706,672	1,125,019	510,938	280,434	265,002	215,493	113,842	95,070	45,172	32,836	14,886	17,771	4,118,368
1999	9,210	116,452	433,400	656,249	651,804	714,112	336,562	226,801	193,497	138,519	97,623	45,054	25,687	13,018	6,991	3,664,980
2000	37,977	323,937	419,860	989,188	1,021,208	780,437	738,105	311,870	160,636	141,488	59,631	29,301	15,191	8,190	7,370	5,044,390
2001	34,741	159,284	373,435	527,397	741,748	667,237	557,868	468,775	196,167	113,175	98,186	47,677	25,046	12,280	9,883	4,343,798

Table D12. Mean weight at age (kg) 1982-2001.

Year	Age														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1982	0.13	0.64	1.09	1.54	2.42	3.75	4.83	5.79	6.20	8.68	10.80	11.20	12.97	13.26	15.91
1983	0.20	0.55	0.94	1.37	2.37	3.29	3.77	5.36	6.01	8.10	9.57	10.39	11.11	11.10	11.12
1984	0.24	0.60	1.69	1.62	2.67	3.39	5.07	5.65	6.76	7.76	8.41	12.65	10.65	11.75	14.75
1985	0.06	0.61	1.07	1.66	2.19	3.59	4.91	5.46	6.77	7.45	9.00	10.69	11.42	14.34	15.98
1986	0.14	0.57	1.27	2.40	2.44	3.12	3.95	5.05	5.44	6.09	7.75	9.16	10.97	11.55	15.83
1987	0.20	0.77	1.41	2.11	2.50	2.91	3.61	4.74	5.52	6.49	7.77	9.78	11.38	11.62	16.46
1988	0.31	0.91	1.10	1.98	3.12	4.02	4.38	4.70	5.24	5.62	8.58	10.40	11.50	11.31	17.00
1989	0.16	0.83	1.22	2.23	3.06	4.53	5.37	6.23	6.04	8.68	8.94	9.74	13.04	9.93	17.11
1990	0.08	0.89	1.14	2.05	2.35	3.83	4.91	5.96	5.70	5.97	7.44	9.08	9.36	10.80	17.65
1991	0.21	0.92	1.29	2.17	2.62	3.17	4.81	5.64	6.46	6.24	9.46	8.30	9.62	15.96	17.09
1992	0.10	0.69	1.31	1.93	2.81	3.67	4.90	5.79	6.96	8.15	9.77	12.44	13.10	11.15	17.65
1993	0.07	0.76	1.31	1.99	2.77	3.58	4.80	6.11	7.03	8.01	9.53	10.76	14.45	13.85	15.36
1994	0.24	1.05	1.69	2.21	2.85	3.50	4.94	6.20	6.80	7.53	9.73	10.69	11.38	9.06	17.75
1995	0.28	0.70	1.35	2.18	2.77	3.65	5.38	6.16	7.27	8.86	7.57	9.73	13.97	15.65	20.37
1996	0.14	1.05	1.47	2.32	3.23	4.52	6.39	7.11	7.81	9.20	9.31	10.10	11.36	12.45	17.30
1997	0.14	1.05	1.47	2.32	3.23	4.52	6.39	7.11	7.81	9.20	9.31	10.10	11.36	12.45	17.30
1998	0.14	1.05	1.47	2.32	3.23	4.52	6.39	7.11	7.81	9.20	9.31	10.10	11.36	12.45	17.30
1999	0.14	1.05	1.47	2.32	3.23	4.52	6.39	7.11	7.81	9.20	9.31	10.10	11.36	12.45	17.30
2000	0.14	1.05	1.47	2.32	3.23	4.52	6.39	7.11	7.81	9.20	9.31	10.10	11.36	12.45	17.30
2001	0.14	1.05	1.47	2.32	3.23	4.52	6.39	7.11	7.81	9.20	9.31	10.10	11.36	12.45	17.30

Table D13. Estimated parameter values and associated SE, T statistic and CV from ADAPT 12+ run prior to re-weighting.

	PAR.	EST.	STD.ERR	T-STATISTIC	C.V.		PAR.	EST.	STD.ERR	T-STATISTIC	C.V.
N	1	1.73E+04	8.72E+03	1.99E+00	0.5	q	NYOHS6	2.60E-04	6.65E-05	3.90E+00	0.26
N	2	1.29E+04	4.95E+03	2.62E+00	0.38	q	NYOHS7	5.47E-04	1.40E-04	3.90E+00	0.26
N	3	6.61E+03	2.04E+03	3.23E+00	0.31	q	NYOHS8	7.92E-04	2.04E-04	3.89E+00	0.26
N	4	4.77E+03	1.32E+03	3.63E+00	0.28	q	NYOHS9	1.27E-03	3.27E-04	3.88E+00	0.26
N	5	3.80E+03	9.64E+02	3.95E+00	0.25	q	NYOHS10	2.13E-03	5.50E-04	3.88E+00	0.26
N	6	4.96E+03	1.20E+03	4.13E+00	0.24	q	NYOHS11	2.74E-03	7.32E-04	3.74E+00	0.27
N	7	2.93E+03	7.40E+02	3.95E+00	0.25	q	NYOHS12+	2.68E-03	6.89E-04	3.88E+00	0.26
N	8	1.52E+03	4.17E+02	3.65E+00	0.27	q	NEFSC2	5.10E-05	1.94E-05	2.63E+00	0.38
N	9	1.61E+03	4.30E+02	3.75E+00	0.27	q	NEFSC3	5.69E-05	1.64E-05	3.48E+00	0.29
N	10	4.57E+02	1.38E+02	3.32E+00	0.3	q	NEFSC4	9.24E-05	2.54E-05	3.63E+00	0.28
N	11	2.86E+02	8.60E+01	3.33E+00	0.3	q	NEFSC5	1.33E-04	3.30E-05	4.04E+00	0.25
q	MACOM7	5.73E-04	1.64E-04	3.49E+00	0.29	q	NEFSC6	2.52E-04	6.24E-05	4.04E+00	0.25
q	MACOM8	8.32E-04	2.39E-04	3.48E+00	0.29	q	NEFSC7	3.89E-04	9.66E-05	4.03E+00	0.25
q	MACOM9	1.46E-03	4.19E-04	3.48E+00	0.29	q	NEFSC8	6.62E-04	1.60E-04	4.14E+00	0.24
q	MACOM10	1.94E-03	5.57E-04	3.48E+00	0.29	q	NEFSC9	9.02E-04	2.25E-04	4.01E+00	0.25
q	MACOM11	2.57E-03	7.38E-04	3.48E+00	0.29	q	NEFSC10	1.51E-03	3.88E-04	3.89E+00	0.26
q	MACOM12+	2.72E-03	7.80E-04	3.48E+00	0.29	q	NEFSC11	1.88E-03	5.40E-04	3.48E+00	0.29
q	CTCPUE3	1.73E-04	3.84E-05	4.52E+00	0.22	q	NEFSC12+	2.69E-03	8.02E-04	3.36E+00	0.3
q	CTCPUE4	2.39E-04	5.17E-05	4.63E+00	0.22	q	HUDSHD8:12	2.76E-04	6.64E-05	4.16E+00	0.24
q	CTCPUE5	3.54E-04	7.64E-05	4.63E+00	0.22	q	YOYNY1	1.12E-04	2.45E-05	4.57E+00	0.22
q	CTCPUE6	4.86E-04	1.05E-04	4.63E+00	0.22	q	YOYNJ1	7.95E-05	1.79E-05	4.45E+00	0.22
q	CTCPUE7	7.33E-04	1.59E-04	4.62E+00	0.22	q	YOYMD1	8.57E-05	1.88E-05	4.57E+00	0.22
q	CTCPUE8	9.35E-04	2.03E-04	4.61E+00	0.22	q	YOYVA1	1.09E-04	2.38E-05	4.57E+00	0.22
q	CTCPUE9	1.52E-03	3.30E-04	4.61E+00	0.22	q	YRLLI2	1.18E-04	2.87E-05	4.13E+00	0.24
q	CTCPUE10	2.74E-03	5.95E-04	4.61E+00	0.22	q	YRLMD2	1.26E-04	2.81E-05	4.49E+00	0.22
q	CTCPUE11	3.30E-03	7.53E-04	4.38E+00	0.23	q	NJTRL2:12	2.12E-05	5.63E-06	3.77E+00	0.27
q	CTCPUE12+	1.06E-03	2.30E-04	4.61E+00	0.22	q	CTTRL4:06	6.49E-05	1.56E-05	4.16E+00	0.24
q	MDSSN3	1.60E-04	3.75E-05	4.27E+00	0.23	q	DETRWL2:07	2.42E-05	6.92E-06	3.50E+00	0.29
q	MDSSN4	2.12E-04	4.96E-05	4.28E+00	0.23	q	VAPN1	8.43E-05	4.14E-05	2.04E+00	0.49
q	MDSSN5	2.75E-04	6.41E-05	4.28E+00	0.23	q	VAPN2	6.41E-05	1.93E-05	3.33E+00	0.3
q	MDSSN6	3.82E-04	8.92E-05	4.28E+00	0.23	q	VAPN3	8.77E-05	2.63E-05	3.34E+00	0.3
q	MDSSN7	5.47E-04	1.28E-04	4.27E+00	0.23	q	VAPN4	1.28E-04	3.81E-05	3.35E+00	0.3
q	MDSSN8	6.35E-04	1.53E-04	4.14E+00	0.24	q	VAPN5	2.12E-04	6.34E-05	3.35E+00	0.3
q	MDSSN9	8.34E-04	1.96E-04	4.26E+00	0.23	q	VAPN6	1.50E-04	4.46E-05	3.35E+00	0.3
q	MDSSN10	1.24E-03	3.11E-04	4.01E+00	0.25	q	VAPN7	5.48E-04	1.64E-04	3.35E+00	0.3
q	MDSSN11	2.33E-03	6.22E-04	3.75E+00	0.27	q	VAPN8	7.96E-04	2.38E-04	3.34E+00	0.3
q	MDSSN12+	1.86E-03	4.36E-04	4.26E+00	0.23	q	VAPN9	1.06E-03	3.17E-04	3.34E+00	0.3
q	NYOHS3	1.10E-04	2.84E-05	3.89E+00	0.26	q	VAPN10	1.55E-03	4.65E-04	3.34E+00	0.3
q	NYOHS4	1.36E-04	3.48E-05	3.90E+00	0.26	q	VAPN11	2.38E-03	7.46E-04	3.19E+00	0.31
q	NYOHS5	1.98E-04	5.08E-05	3.91E+00	0.26	q	VAPN12+	1.81E-03	5.99E-04	3.02E+00	0.33

Table D14. Fishing mortality for several age intervals in 12+ and 13+ runs.

Average F for						
<u>Ages</u>	4,11	4,10	3,8		8,11	7,10
Year	13+	12+	13+	12+	13+	12+
1982	0.43	0.41	0.31	0.34	0.60	0.54
1983	0.40	0.30	0.29	0.25	0.44	0.27
1984	0.15	0.15	0.21	0.18	0.09	0.12
1985	0.17	0.15	0.19	0.15	0.12	0.17
1986	0.15	0.13	0.15	0.11	0.17	0.16
1987	0.07	0.05	0.06	0.04	0.08	0.06
1988	0.13	0.10	0.10	0.07	0.17	0.12
1989	0.08	0.06	0.07	0.06	0.10	0.06
1990	0.13	0.10	0.12	0.09	0.12	0.08
1991	0.14	0.10	0.10	0.08	0.19	0.11
1992	0.11	0.08	0.08	0.07	0.13	0.09
1993	0.15	0.11	0.10	0.08	0.20	0.12
1994	0.16	0.12	0.10	0.09	0.21	0.15
1995	0.20	0.18	0.15	0.13	0.25	0.21
1996	0.21	0.18	0.19	0.17	0.22	0.19
1997	0.27	0.23	0.23	0.21	0.30	0.25
1998	0.27	0.21	0.20	0.17	0.32	0.23
1999	0.28	0.21	0.18	0.16	0.38	0.27
2000	0.29	0.24	0.24	0.21	0.33	0.27
2001	0.32	0.24	0.22	0.19	0.40	0.29
1999-2001 Average	0.30	0.23	0.21	0.19	0.37	0.28

Table D15. Fishing mortality at age in 2001 for 12+ and 13+ group runs.

Age	1	2	3	4	5	6	7	8	9	10	11	12	13
Plus Group													
13+	0	0.03	0.06	0.16	0.16	0.25	0.34	0.35	0.41	0.44	0.41	0.34	0.34
12+	0	0.02	0.06	0.14	0.15	0.21	0.29	0.28	0.3	0.3	0.29	0.29	

Table D16. Back-calculated partial recruitment and 1996-2001 average PR from 12+ run.

Age	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	97-01 av
1	0	0	0.01	0	0.02	0.01	0	0	0	0	0	0	0	0	0	0	0.01	0	0.02	0.01	0
2	0.11	0.15	0.54	0.1	0.03	0.06	0.06	0.1	0.07	0.08	0.07	0.07	0.1	0.13	0.04	0.08	0.05	0.05	0.12	0.08	0.11
3	0.44	0.33	1	0.16	0.13	0.2	0.11	0.39	0.26	0.2	0.39	0.2	0.33	0.27	0.26	0.19	0.17	0.13	0.26	0.19	0.44
4	0.44	0.78	0.37	0.23	0.31	0.35	0.16	0.48	0.74	0.43	0.5	0.45	0.32	0.4	0.53	0.32	0.36	0.28	0.45	0.45	0.44
5	0.28	0.69	0.7	0.42	0.44	0.54	0.37	0.74	1	0.65	0.71	0.55	0.54	0.39	0.69	0.52	0.6	0.41	0.72	0.48	0.28
6	0.2	0.38	0.66	0.89	0.36	0.77	0.41	0.94	0.96	0.61	0.9	0.54	0.47	0.68	0.67	0.84	0.65	0.51	0.88	0.66	0.2
7	0.37	0.37	0.43	1	0.73	0.51	0.66	0.53	0.84	0.55	0.76	0.52	0.42	0.39	1	0.62	0.62	0.58	0.96	0.93	0.37
8	0.89	0.12	0.22	0.67	1	0.85	0.48	1	0.63	0.69	0.82	0.6	0.56	0.57	0.56	1	0.61	0.69	1	0.9	0.89
9	1	0.39	0.13	0.46	0.59	1	1	0.58	0.81	0.55	1	0.74	1	1	0.61	0.55	1	0.61	0.92	0.97	1
10	0.53	1	0.72	0.32	0.62	0.68	0.48	0.8	0.32	1	0.84	1	0.82	0.95	0.72	0.54	0.46	1	0.81	1	0.53
11	0.33	0.52	0.56	0.62	0.5	0.6	0.43	0.75	0.88	0.62	0.8	0.57	0.53	0.52	0.71	0.67	0.64	0.51	0.85	0.82	0.33
12	0.33	0.52	0.56	0.62	0.5	0.6	0.43	0.75	0.88	0.62	0.8	0.57	0.53	0.52	0.71	0.67	0.64	0.51	0.85	0.82	0.33

Table D17. Estimated population abundance, thousands at age, 1982-2002.

Age	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
1	1,733	4,264	3,431	3,643	3,038	3,703	5,627	6,863	7,690	7,776	7,674	9,035	14,803	11,212	12,509	14,225	8,536	11,442	8,381	15,558	17,967
2	1,402	1,490	3,666	2,948	3,135	2,604	3,186	4,841	5,906	6,617	6,691	6,603	7,776	12,736	9,646	10,766	12,241	7,322	9,840	7,179	13,359
3	953	1,109	1,180	2,652	2,470	2,679	2,232	2,713	4,133	5,040	5,628	5,716	5,618	6,558	10,566	8,217	9,002	10,366	6,194	8,169	6,029
4	817	582	789	735	2,188	2,067	2,271	1,882	2,261	3,442	4,204	4,659	4,748	4,512	5,219	8,500	6,621	7,297	8,520	4,942	6,631
5	319	498	322	603	595	1,760	1,731	1,896	1,557	1,772	2,769	3,443	3,706	3,817	3,468	3,903	6,527	5,043	5,672	6,416	3,692
6	144	220	290	221	464	466	1,453	1,391	1,534	1,179	1,375	2,219	2,695	2,849	2,922	2,490	2,788	4,574	3,736	3,935	4,751
7	104	107	153	201	150	370	377	1,159	1,108	1,167	921	1,082	1,738	2,104	2,015	2,091	1,592	1,925	3,275	2,491	2,740
8	36	67	74	115	133	110	306	287	956	857	920	735	851	1,370	1,621	1,330	1,423	1,110	1,345	2,134	1,609
9	23	16	54	60	83	92	89	241	228	759	661	729	570	652	1,002	1,202	799	979	745	868	1,391
10	34	9	11	45	45	63	73	64	198	177	599	515	551	398	420	733	849	488	663	492	556
11	53	19	4	7	35	34	51	58	51	163	130	474	372	399	260	299	519	625	291	440	313
12+	140	80	74	79	122	351	178	193	173	289	279	308	381	239	403	274	602	579	292	415	550
10+	227	108	89	131	202	448	302	315	422	629	1,008	1,297	1,304	1,036	1,083	1,306	1,970	1,692	1,246	1,347	1,419
8+	286	191	217	306	418	650	697	843	1,606	2,245	2,589	2,761	2,725	3,058	3,706	3,838	4,192	3,781	3,336	4,349	4,419
1+	5,758	8,461	10,048	11,309	12,458	14,299	17,574	21,588	25,795	29,238	31,851	35,518	43,809	46,846	50,051	54,030	51,499	51,750	48,954	53,039	59,588

Table D18. Spawning stock biomass of female striped bass in metric tons at age and annual total in MT and millions of pounds (Mlb), 1982-2001.

Age	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	19	13	19	23	66	64	73	56	68	102	126	142	157	162	171	293	227	256	296	171
5	40	57	37	70	73	265	273	288	218	252	419	486	540	595	553	640	1,071	828	945	1,069
6	114	130	172	143	258	264	977	1,108	1,116	684	905	1,489	1,772	1,927	2,246	1,952	2,194	3,627	2,924	3,176
7	197	166	261	339	236	524	564	2,267	2,185	2,115	1,529	1,904	3,060	3,806	4,003	4,834	3,490	4,206	7,139	5,380
8	86	152	153	265	290	212	560	666	2,396	1,993	2,165	1,784	2,051	3,316	4,394	3,855	4,408	3,199	3,843	6,133
9	56	43	154	174	212	230	207	608	639	2,221	1,948	2,198	1,715	2,022	3,243	4,152	2,727	3,607	2,508	2,893
10	128	30	35	149	137	176	193	203	563	494	2,049	1,794	1,888	1,433	1,604	2,887	3,343	1,886	2,818	1,862
11	270	81	18	29	126	112	180	194	194	580	479	1,966	1,544	1,424	1,108	1,284	2,224	2,675	1,240	2,079
12	959	409	476	542	811	2,426	1,260	1,375	1,226	2,062	2,084	2,113	2,737	2,026	2,887	1,945	4,263	4,098	2,056	3,244
Total, MT	1,867	1,080	1,322	1,733	2,208	4,273	4,284	6,763	8,603	10,500	11,701	13,873	15,462	16,709	20,208	21,840	23,946	24,379	23,766	26,004
Total, Mlb	4.11	2.38	2.91	3.81	4.86	9.40	9.42	14.88	18.93	23.10	25.74	30.52	34.02	36.76	44.46	48.05	52.68	53.63	52.29	57.21

Table D19. Estimates of bay-wide fishing mortality and ASMFC Target Fishing mortality estimates.
 (Estimates include a non-harvest mortality of 0.10.)

Year	Bay-wide F	ASMFC target
1993	0.19	0.25
1994	0.20	0.25
1995	0.25	0.30
1996	0.33	0.30
1997	0.25	0.28
1998	0.21	0.28
1999	0.31	0.28
2000	0.28	0.28
2001	0.23	0.28

Figure D1. Proportions of recreational and commercial fishery landings in numbers for 2001.

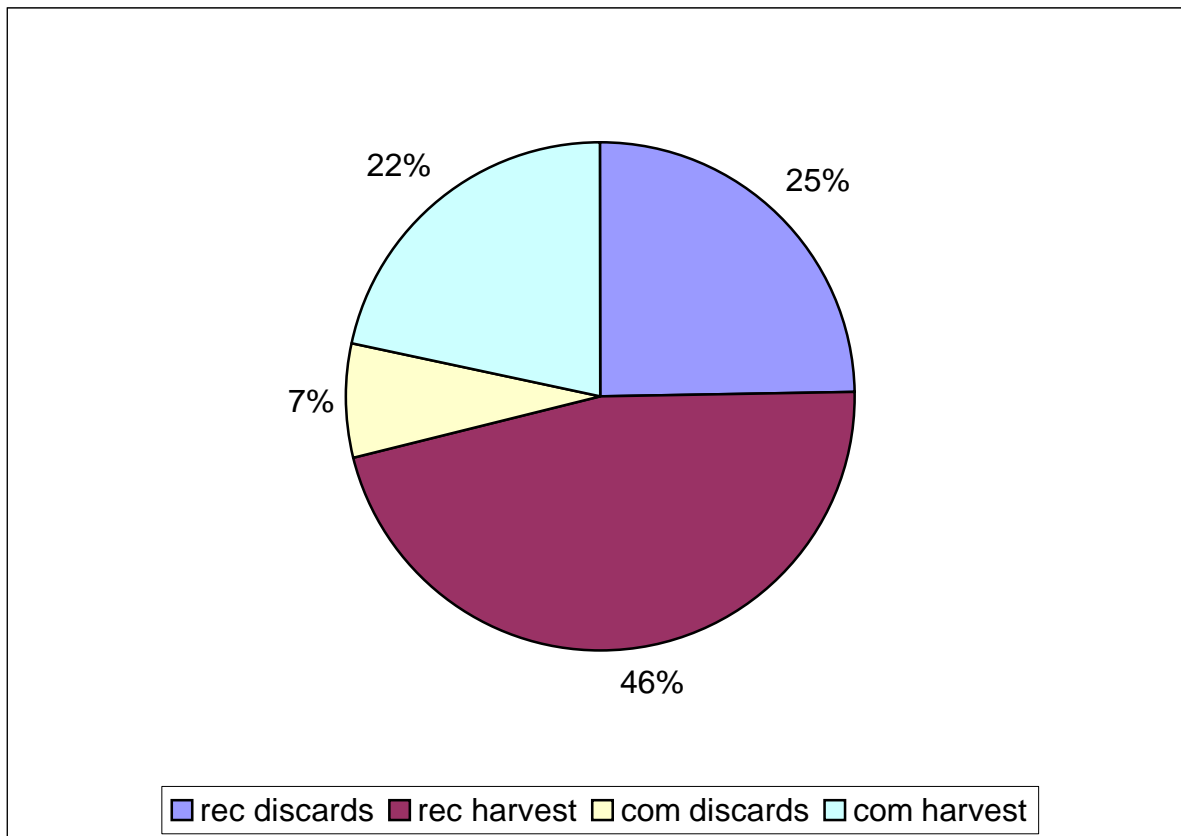


Figure D2. Recreational harvest in numbers of fish and weight (million lb) by state for 2001.

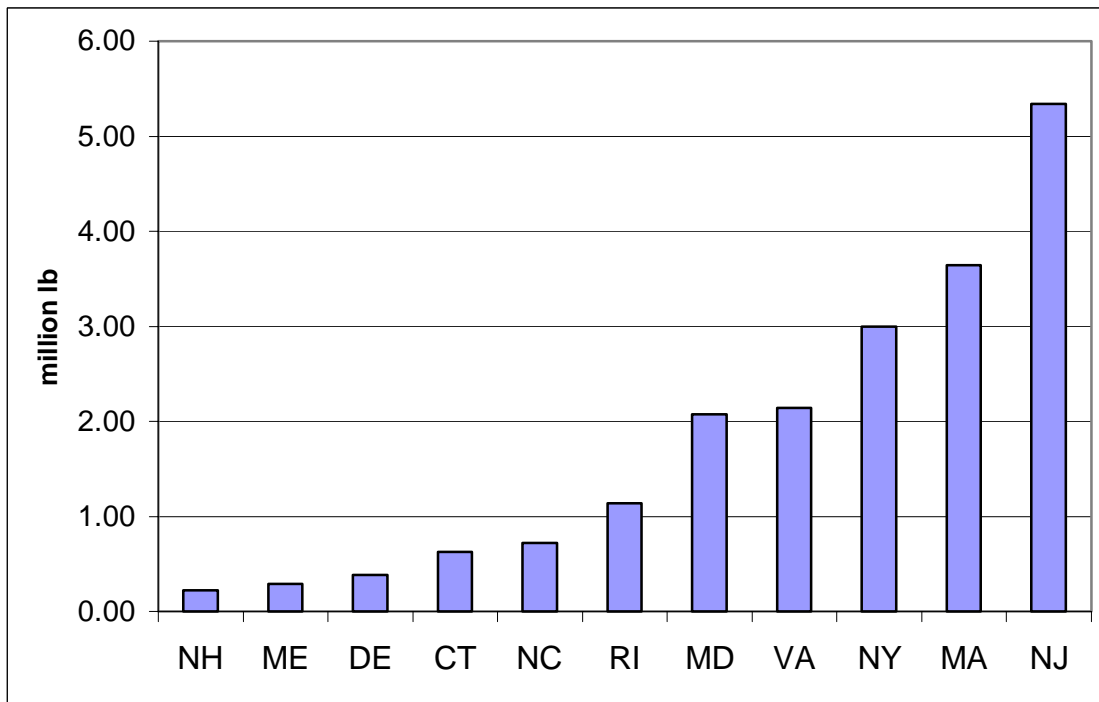
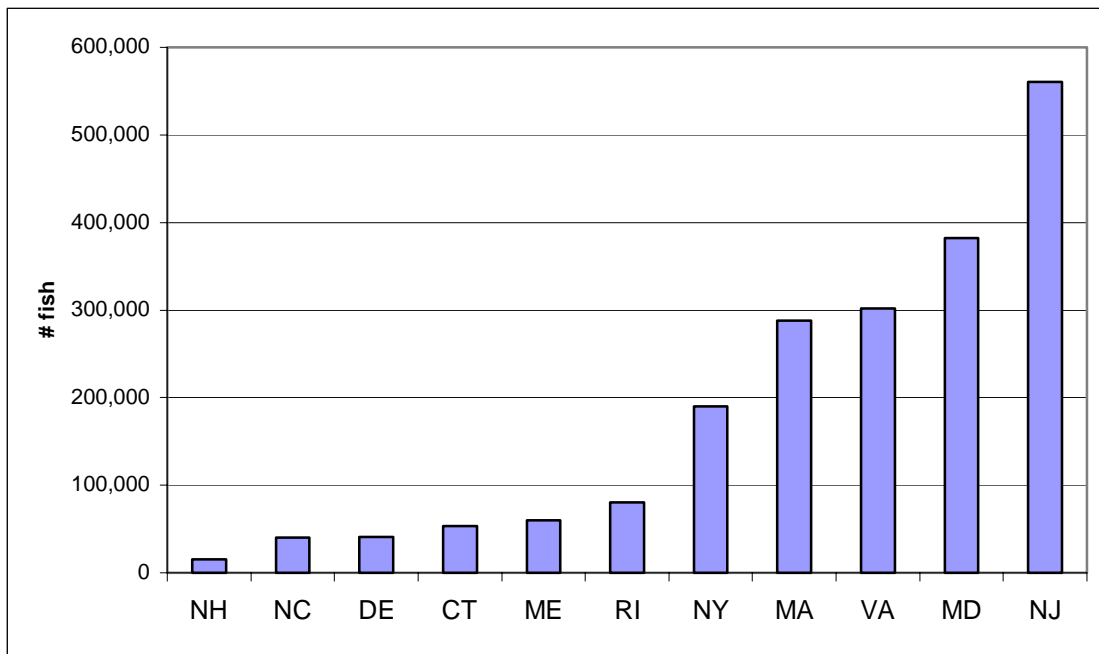


Figure D3. Total losses (harvest and dead discards) for recreational fishery in 1982-2001.

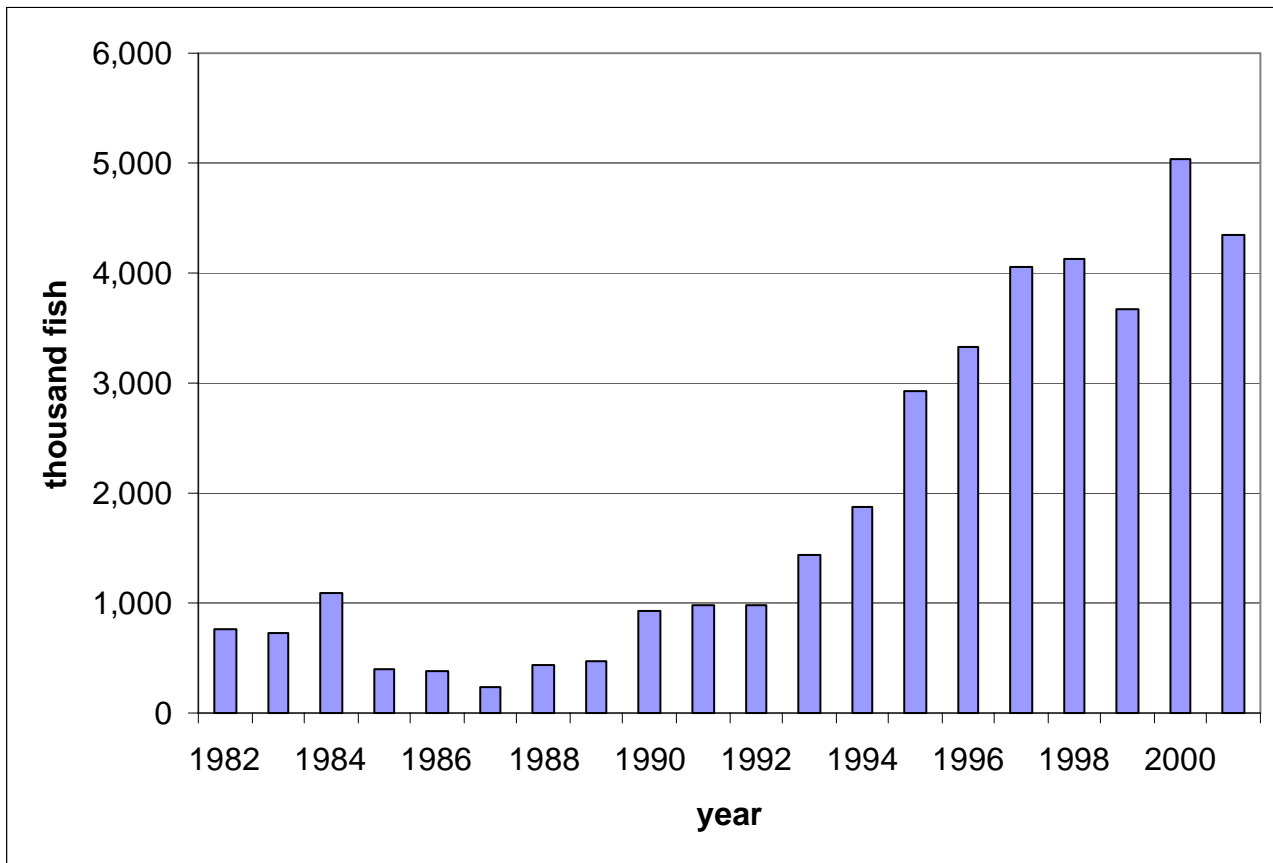


Figure D4. Recreational and commercial catch (harvest and discard) in number in 2000 and 2001.

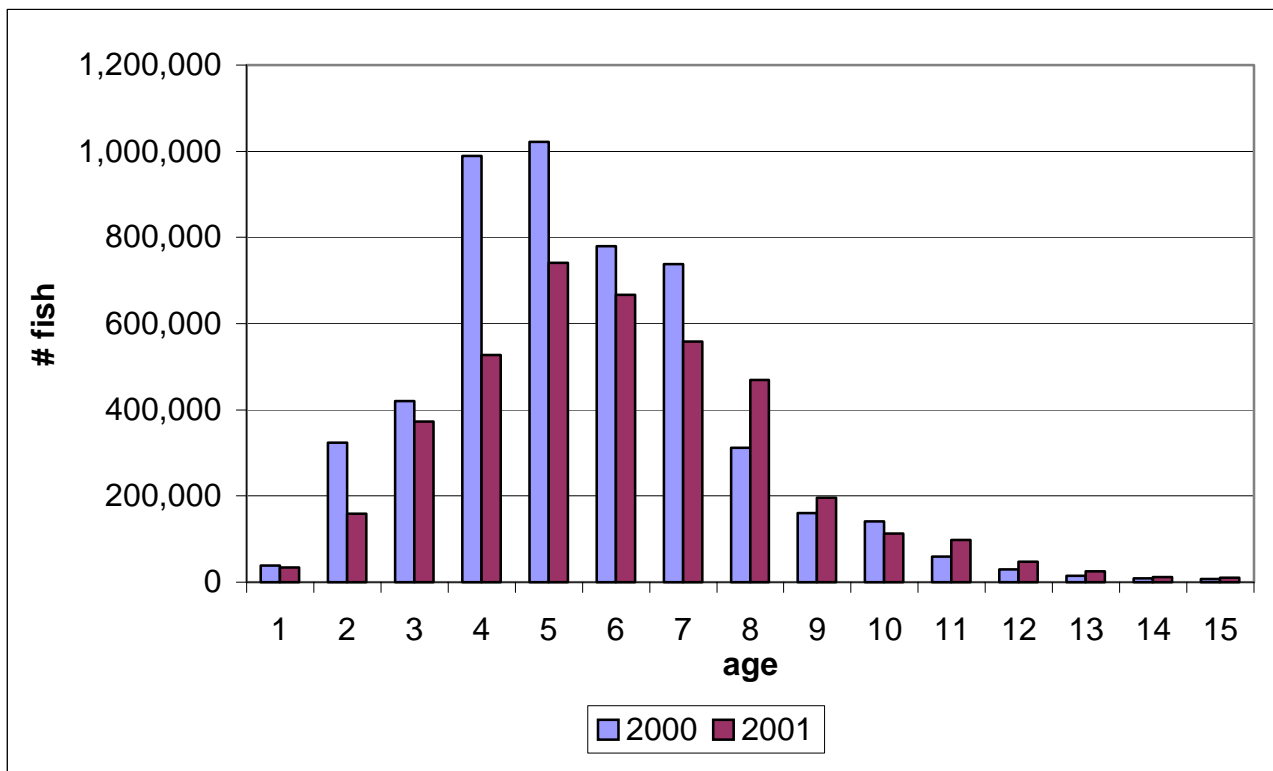


Figure D5. Maryland Spawning Stock Index, ages 2-12+, 1985-2001.

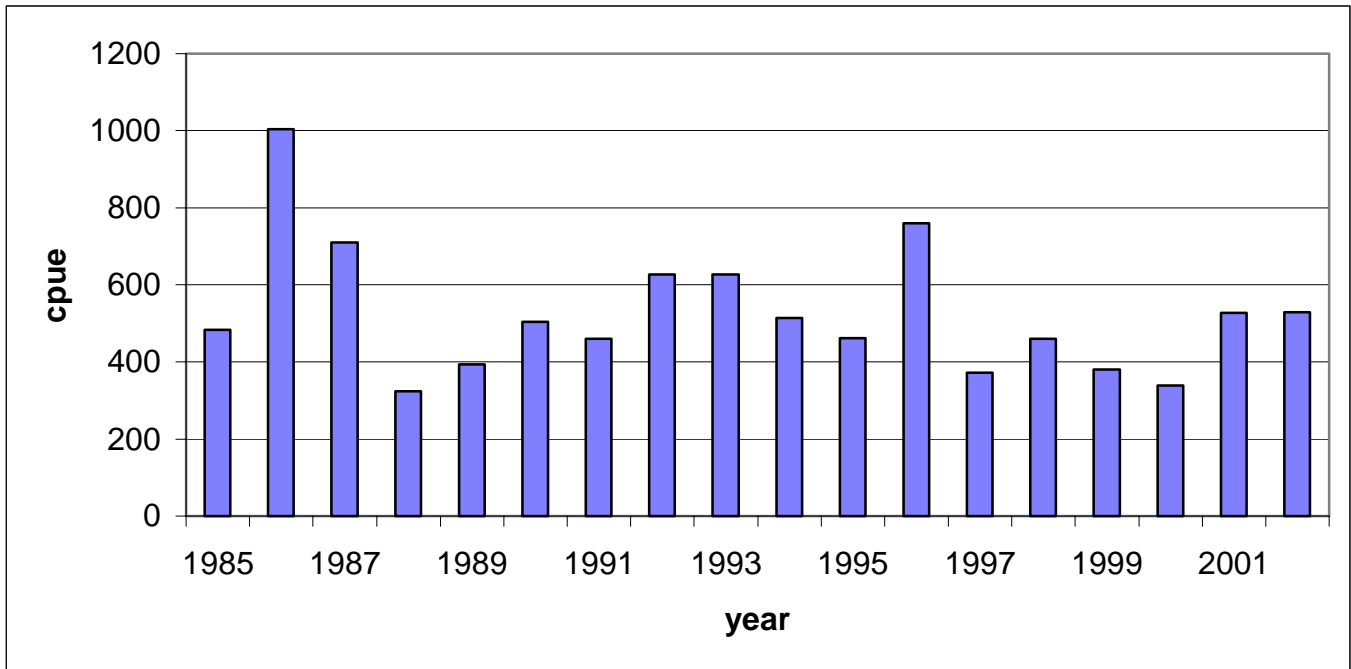


Figure D6. New York Ocean Haul Seine, Total CPUE ages 5-12+, 1987-2001.

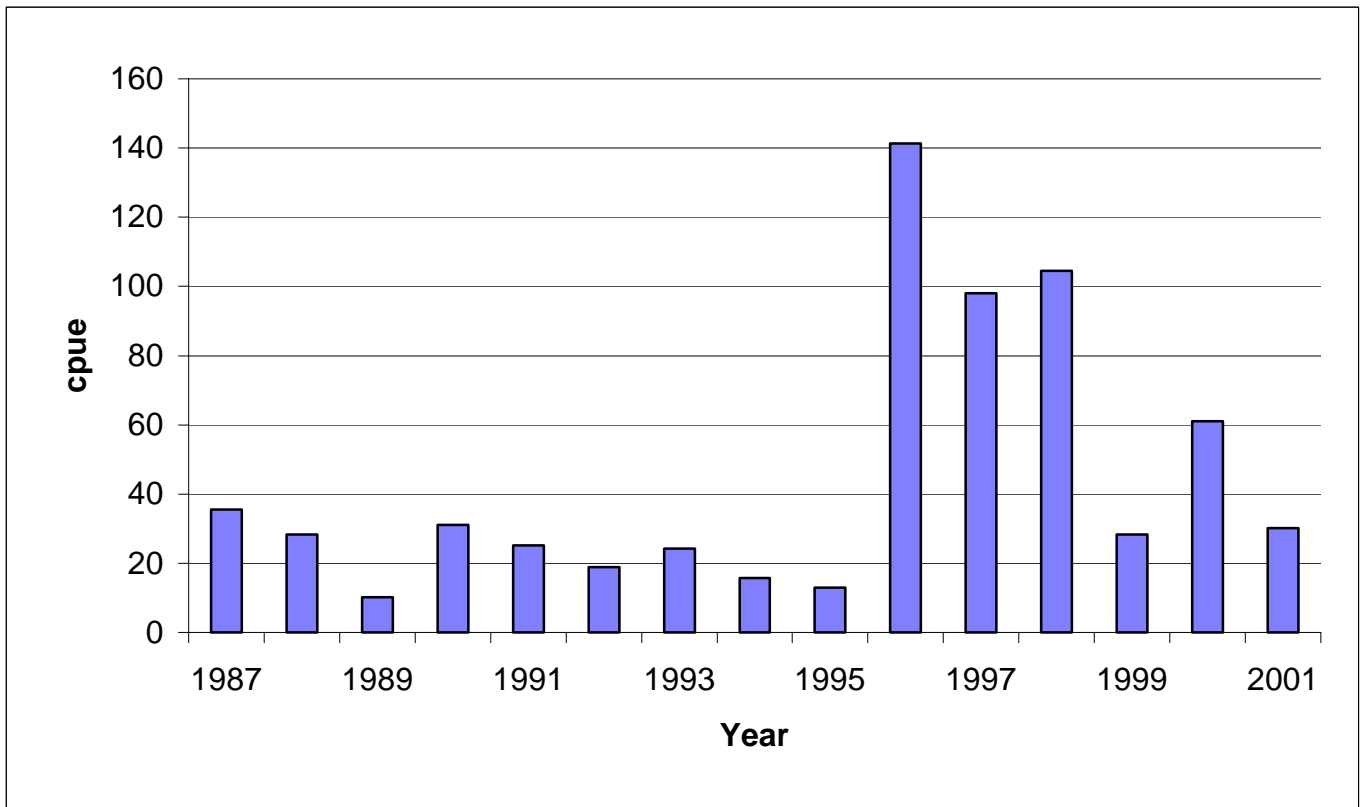


Figure D7. NMFS/NEFSC trawl survey CPUE Ages 2-12+, 1983-2002.

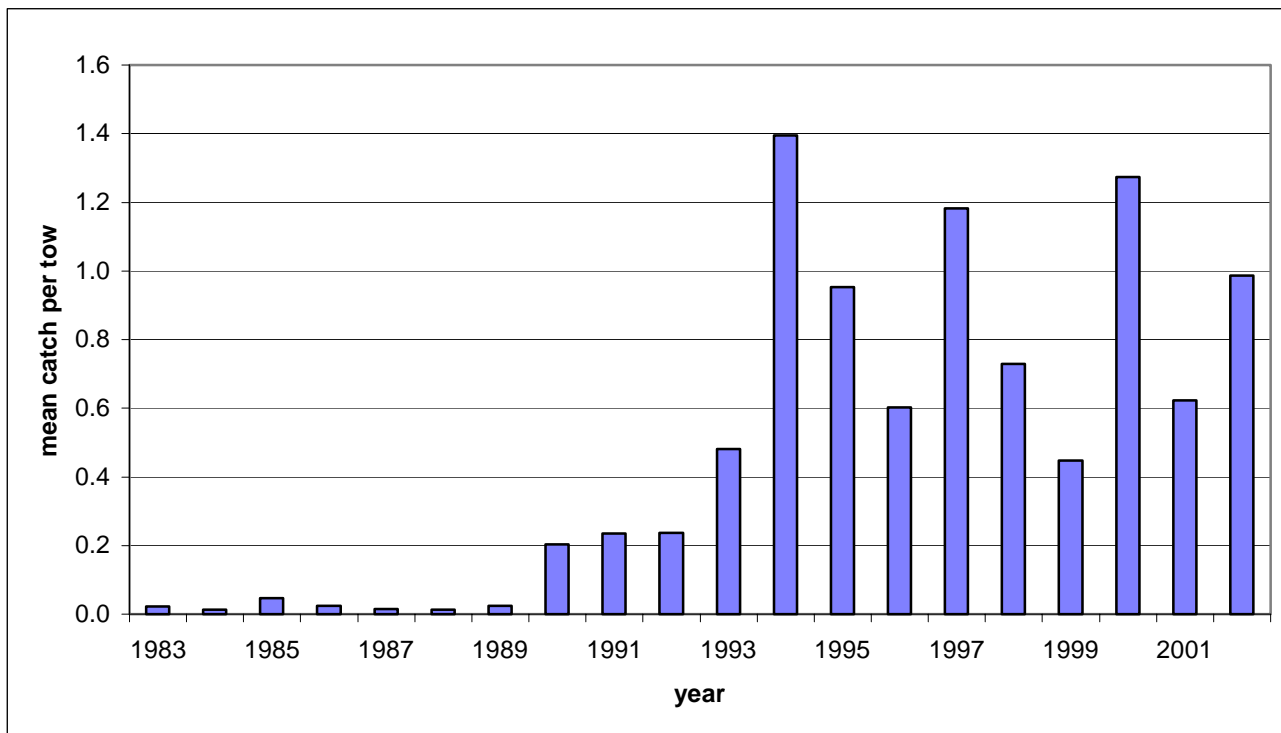


Figure D8. Virginia Rappahannock River Pound Net CPUE, 1991-2002.

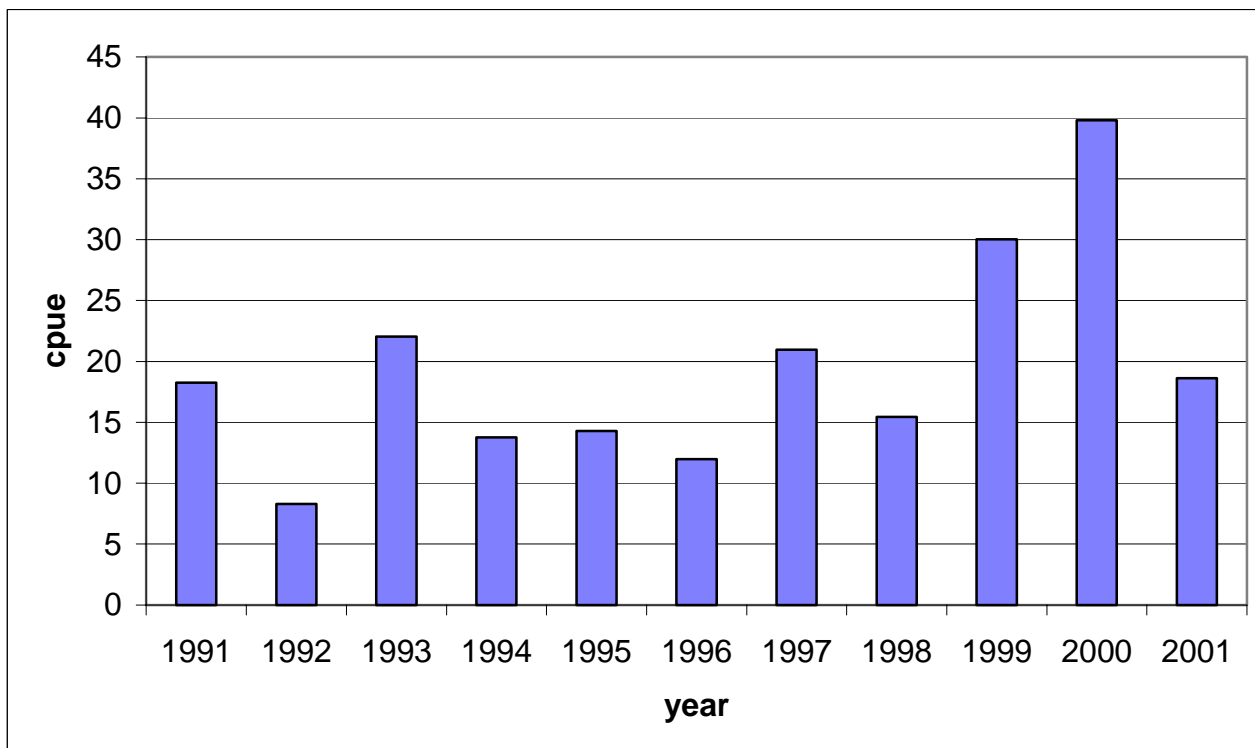


Figure D9. Age aggregated trawl CPUE, Delaware, New Jersey, and Connecticut, 1984-2002.

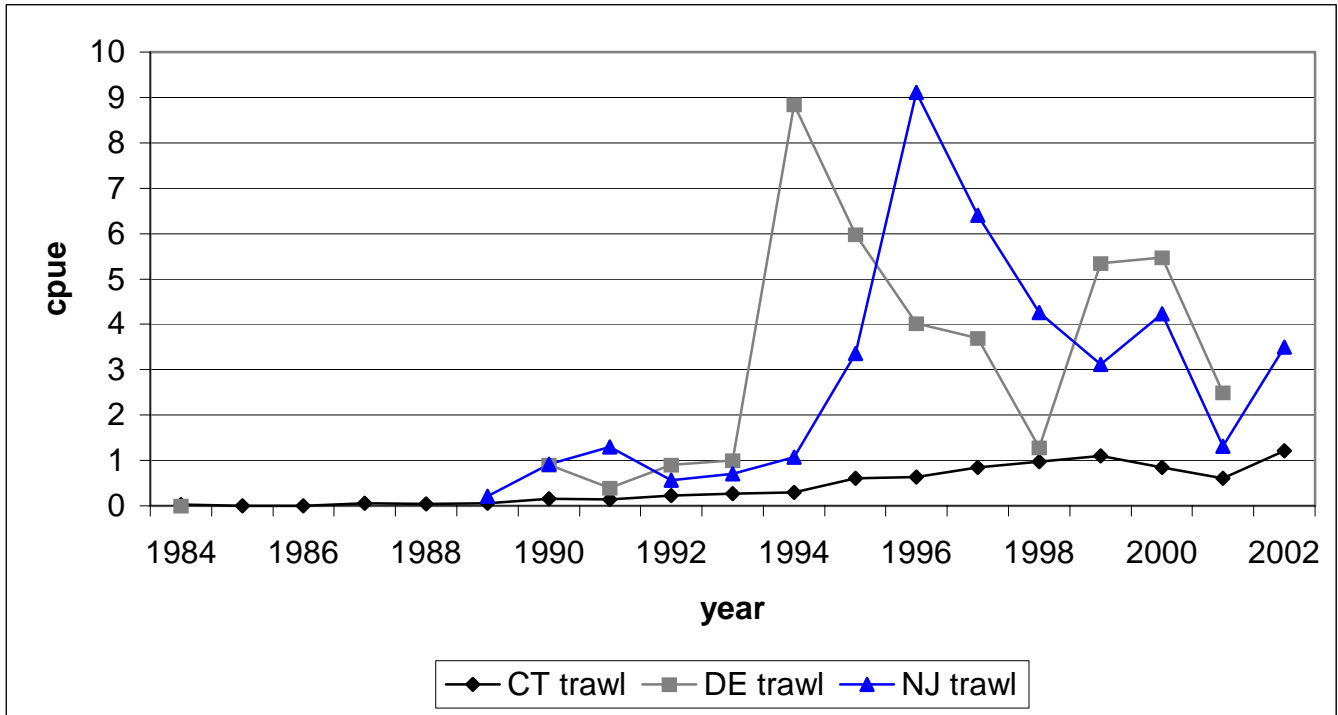


Figure D10. Indices of young of the year abundance for the Chesapeake Stock, Maryland and Virginia surveys, 1981-2001.

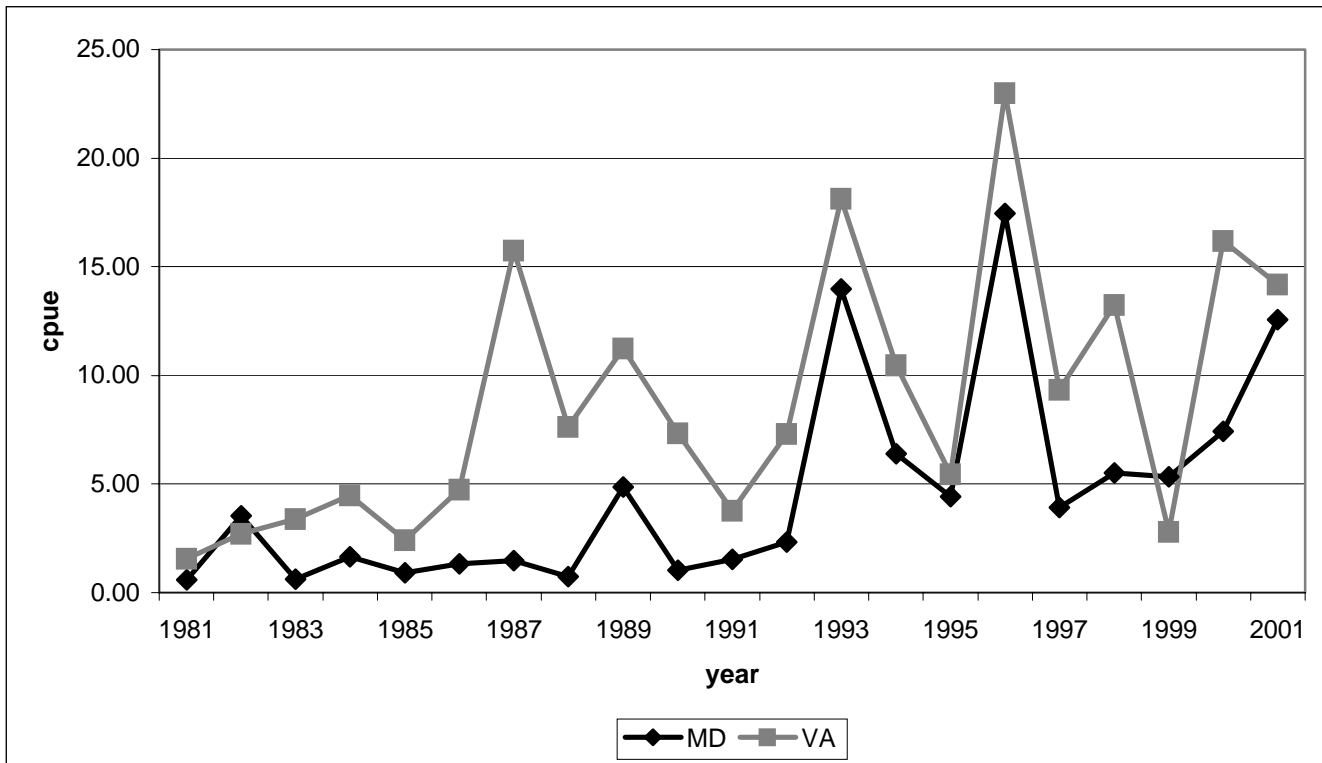


Figure D11. Young of the year survey values for the Hudson (NY) and Delaware Bay (DE, NJ) stocks, 1981-2001.

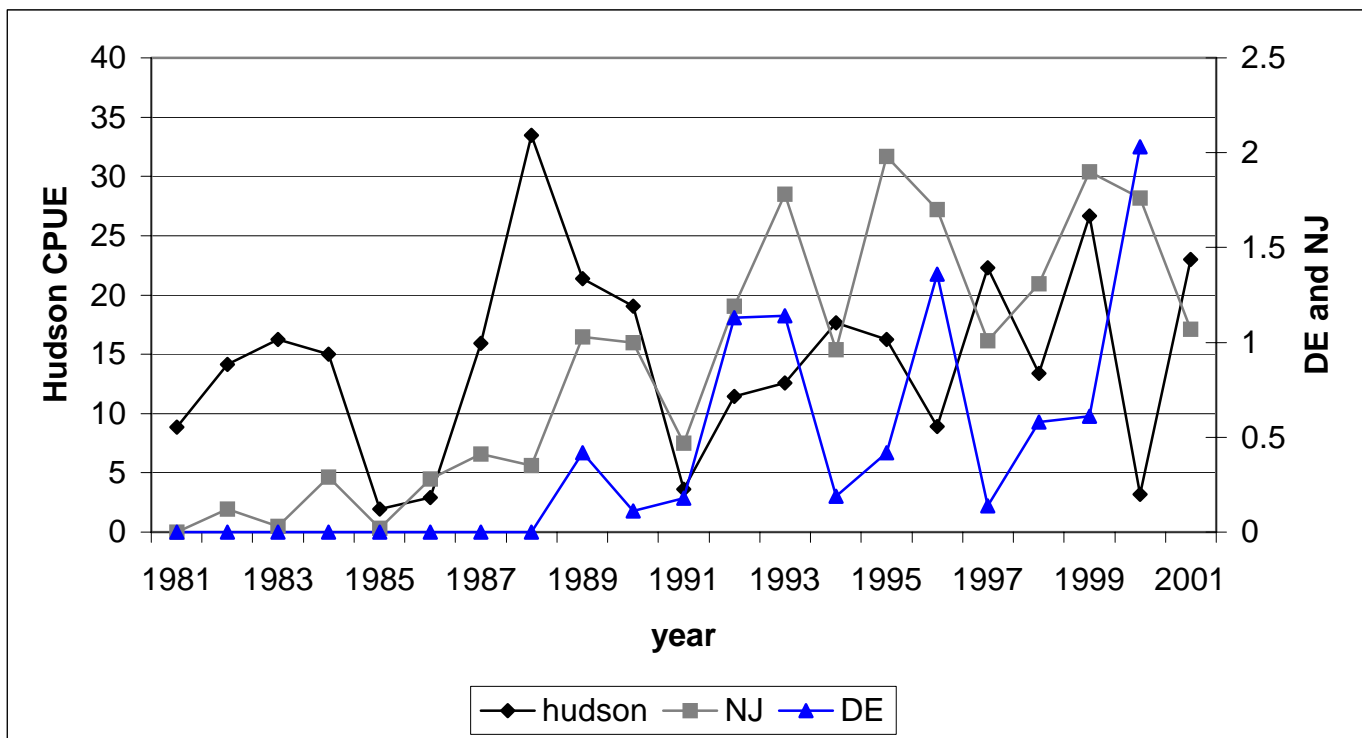


Figure D12. Indices of age-1 striped bass abundance for Long Island and Maryland.

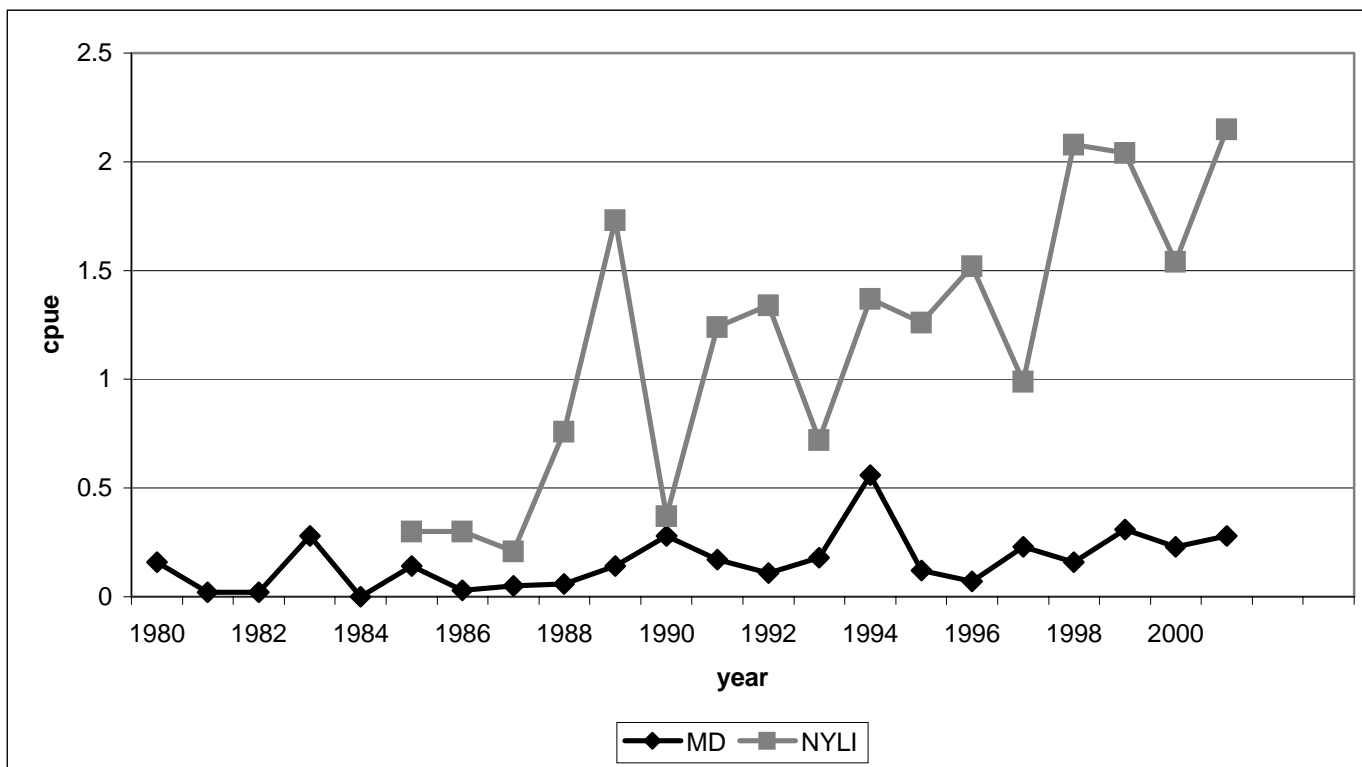


Figure D13. Massachusetts total age 8-12+ CPUE, 1990-2001.

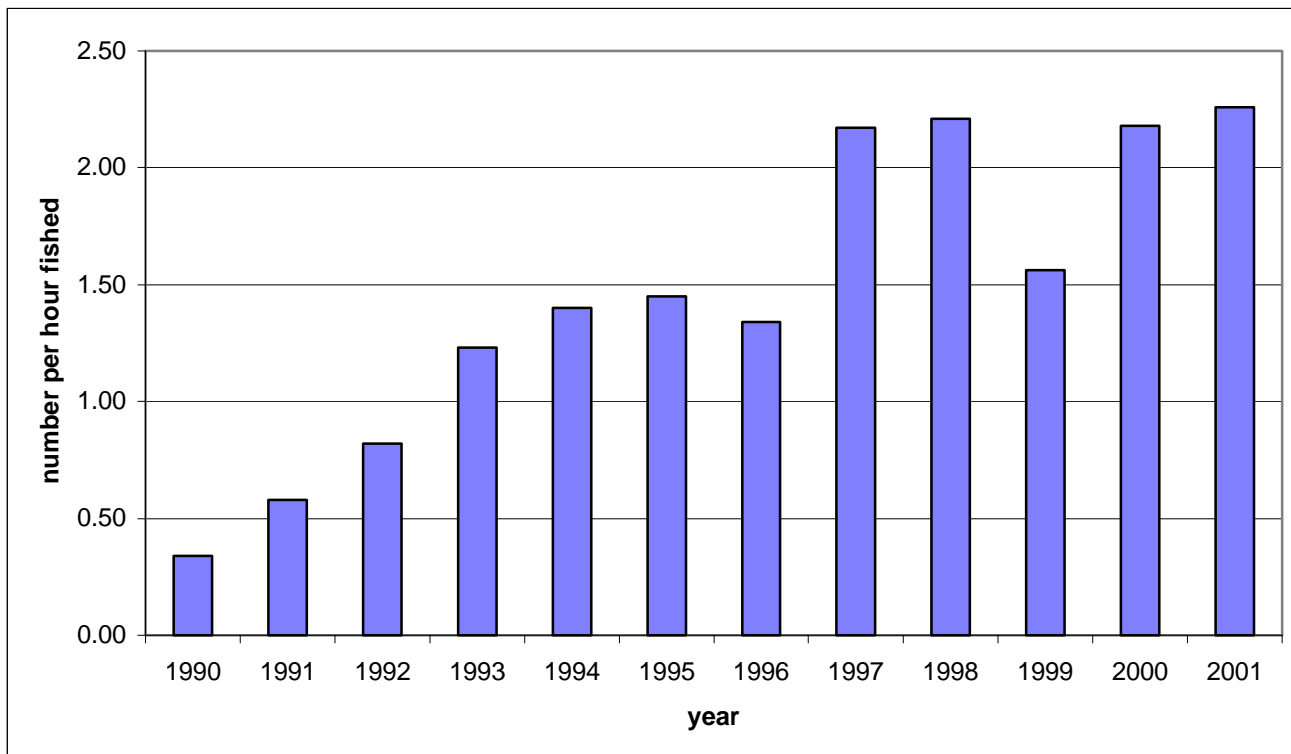


Figure D14. Connecticut total ages 2-12+ CPUE, 1981-2001.

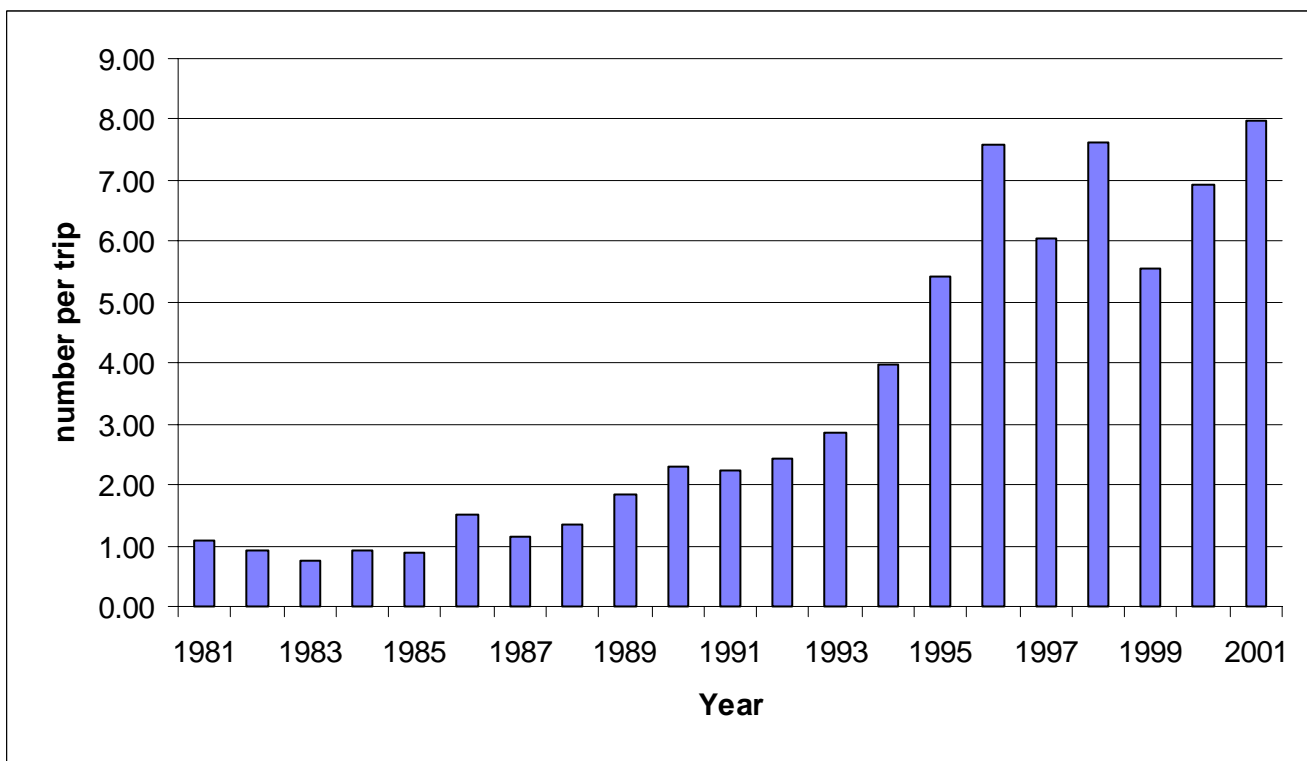


Figure D15. Hudson River shad bycatch indices of striped bass abundance, 1985-2001.

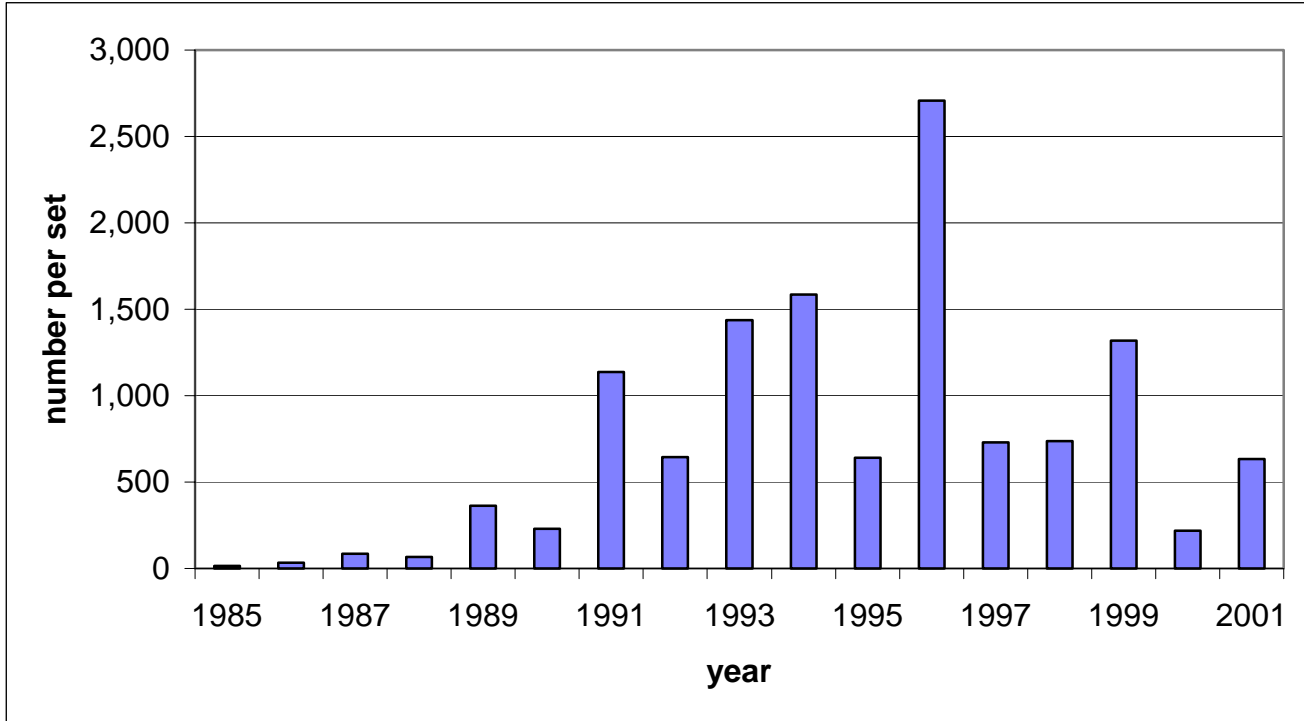


Figure D16. Striped bass fishing mortality from the 2001 ADAPT for age 4 through 10 for 12+ run and 4 through 11 for 13+ run.

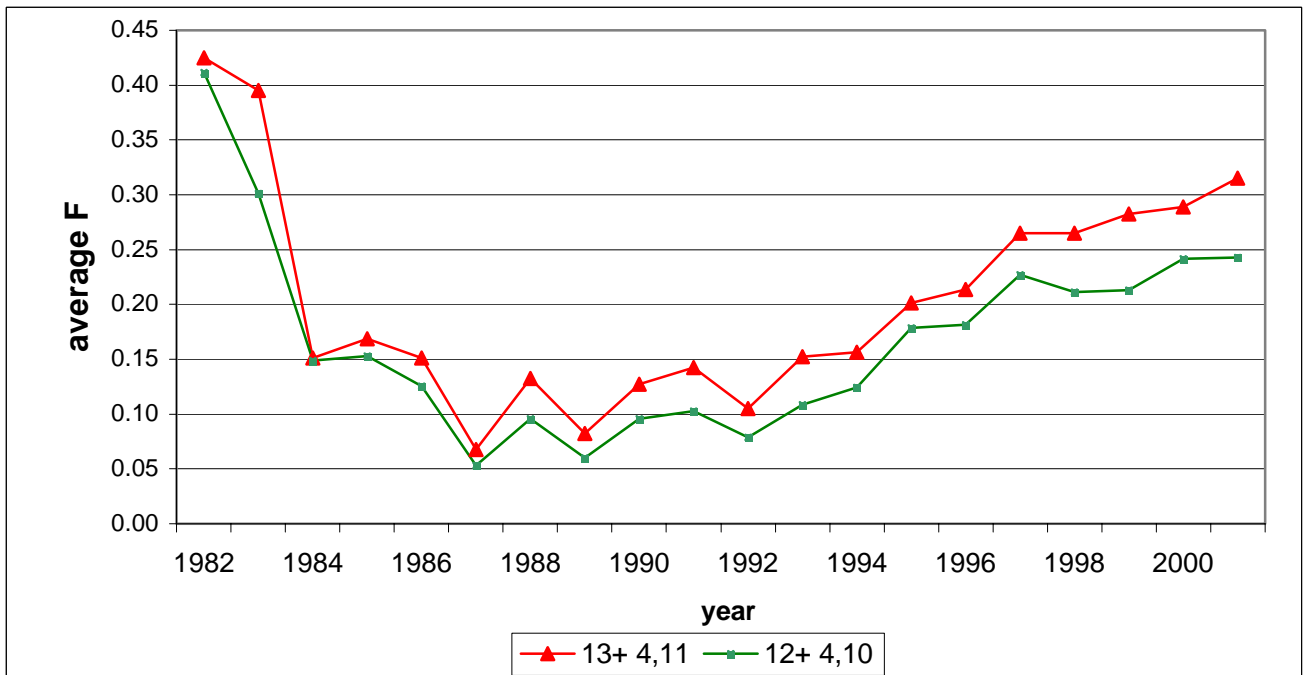


Figure D17. Striped bass fishing mortality from the 2001 ADAPT for ages 7-10 (12+ run) and 8-11 (13+ run).

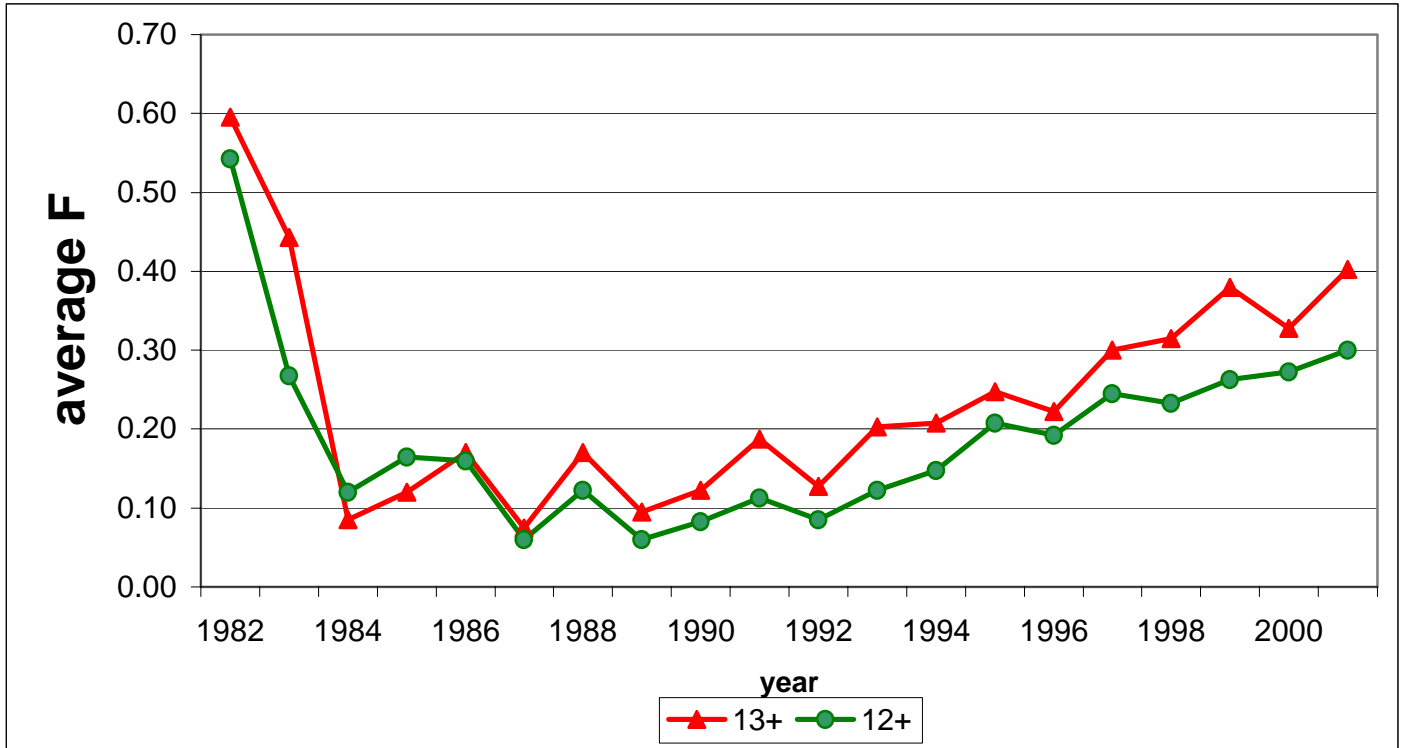


Figure D18. Striped bass fishing mortality from the 2001 ADAPT for ages 3 through 8 for 12+ and 13+ runs.

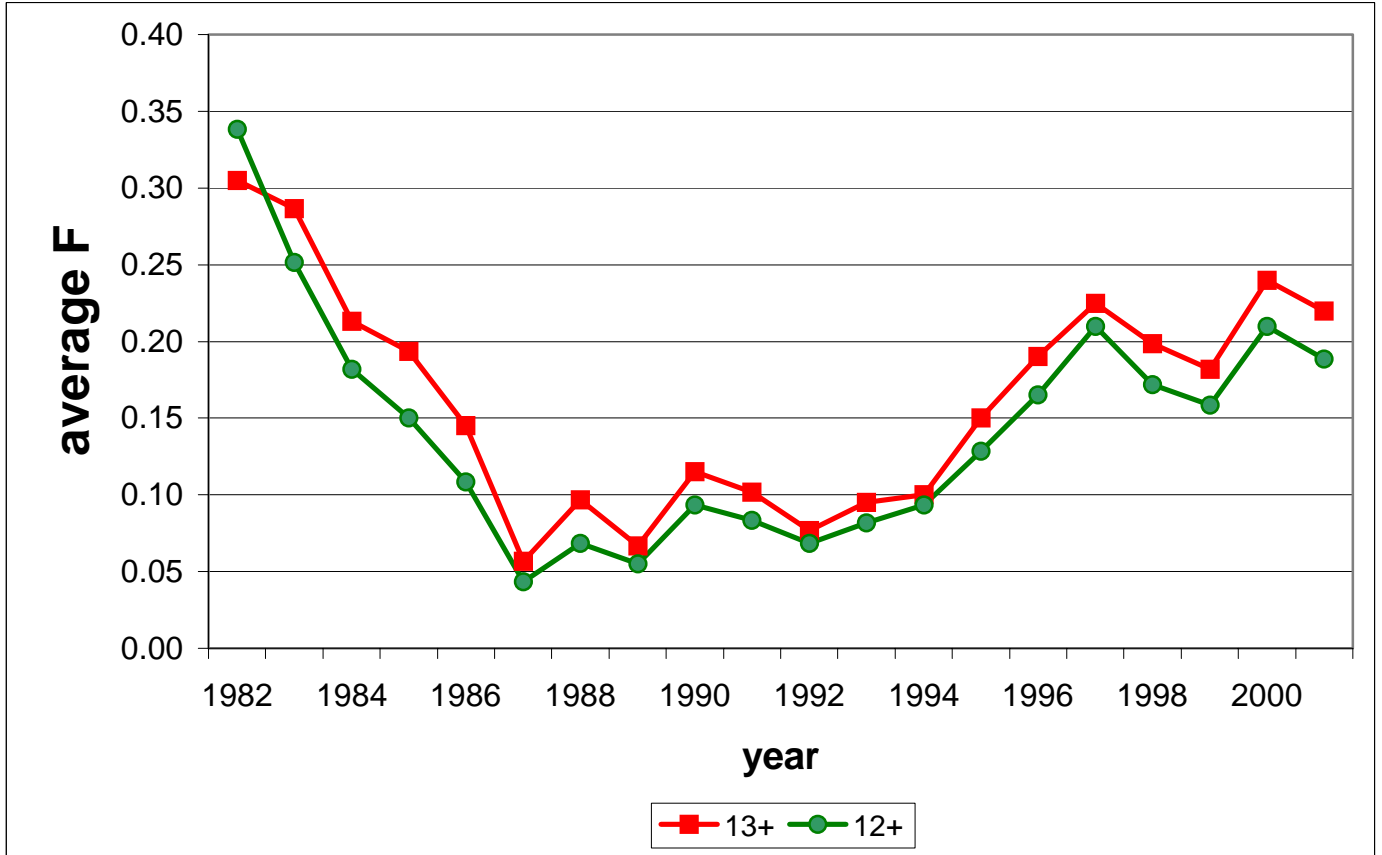


Figure D19. Population size (ages 1-12+) estimates for 12+ and 13+ runs.

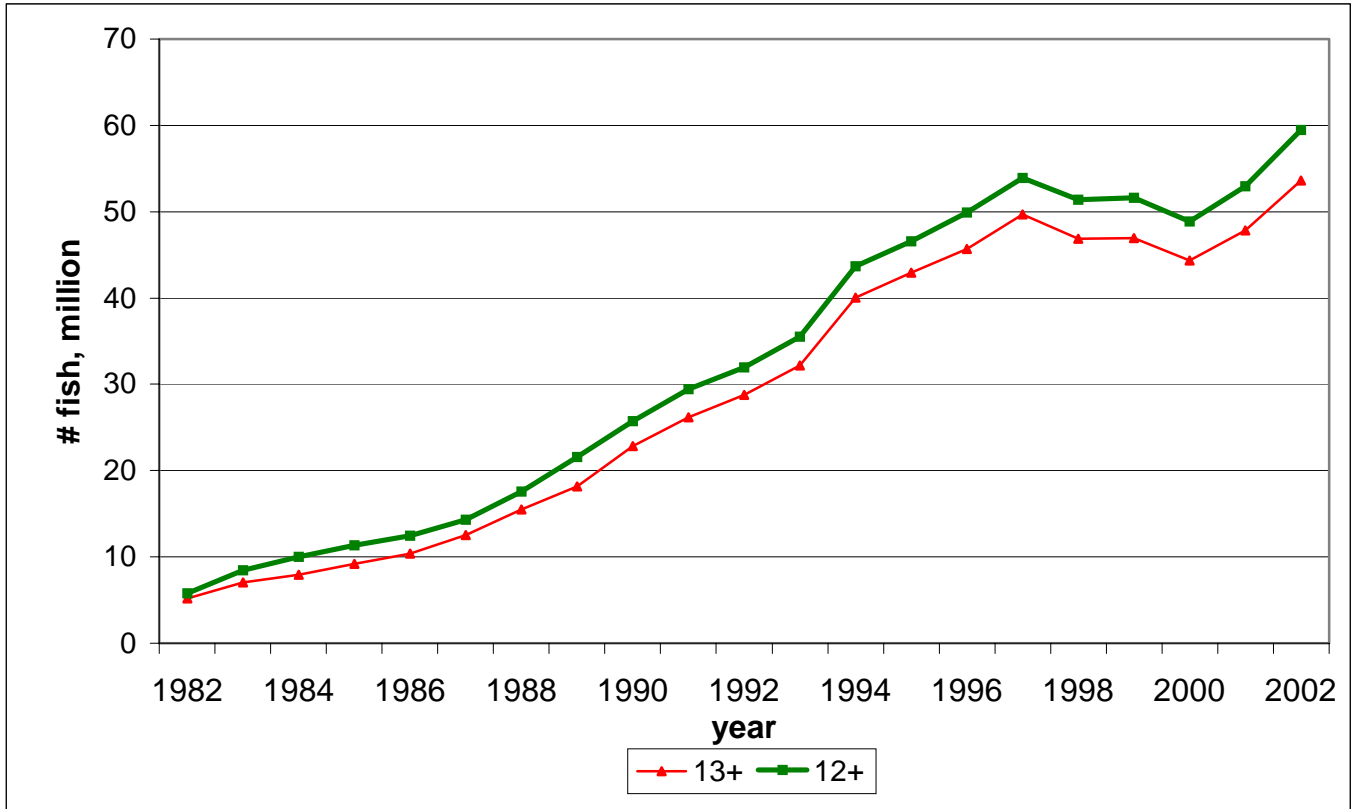


Figure D20. Recruitment (Age 1) for 12+ and 13+ runs.

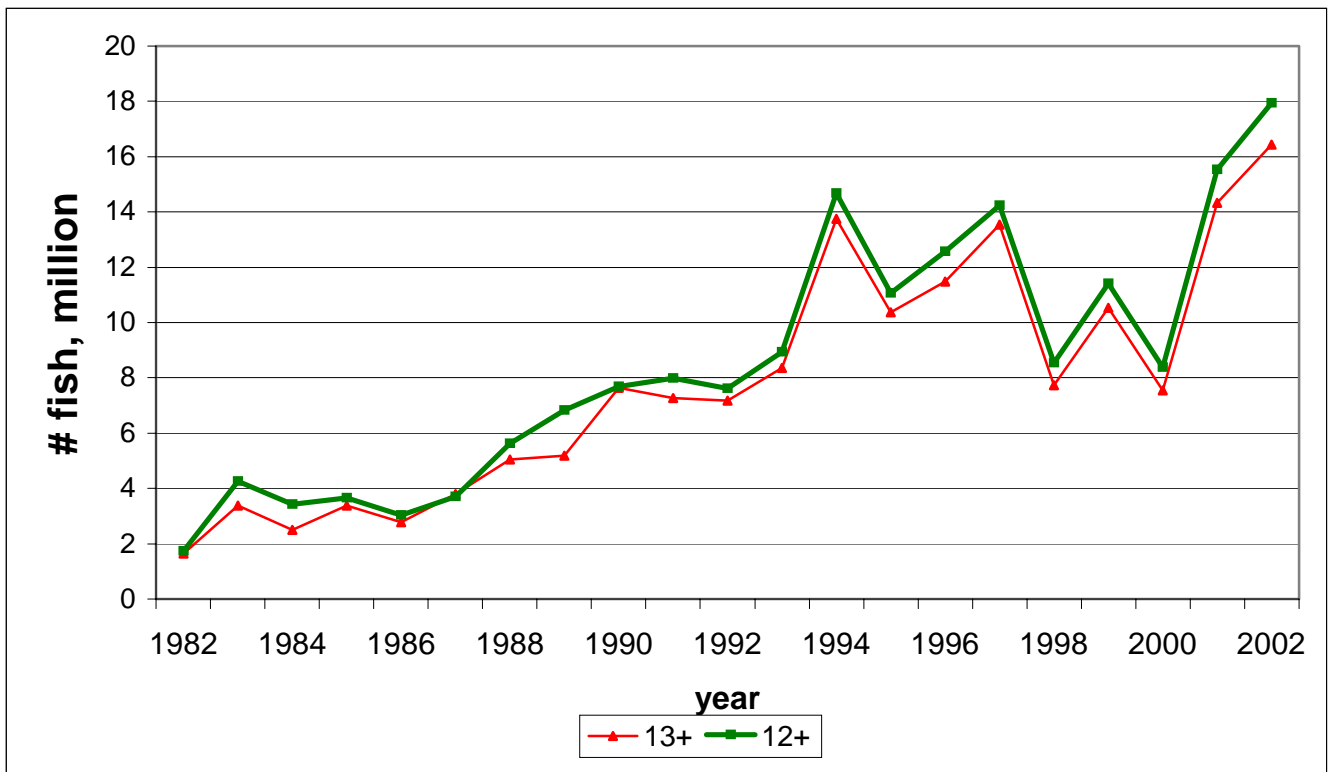


Figure D21. Female spawning stock biomass for 12+ and 13+ runs.

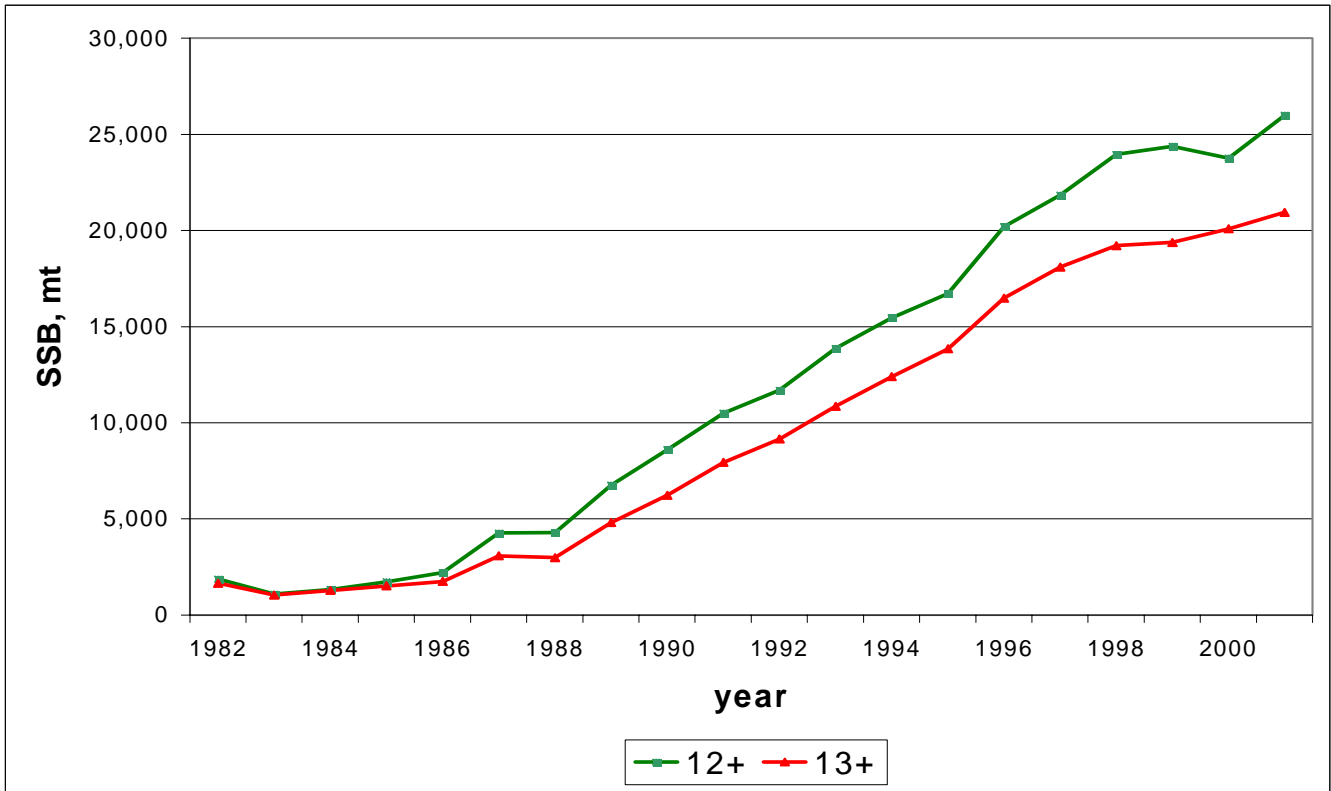


Figure D22. Terminal full F distribution (ages 7-10) based on 500 bootstrap iterations > 80 % confidence intervals are shown by dashed lines.

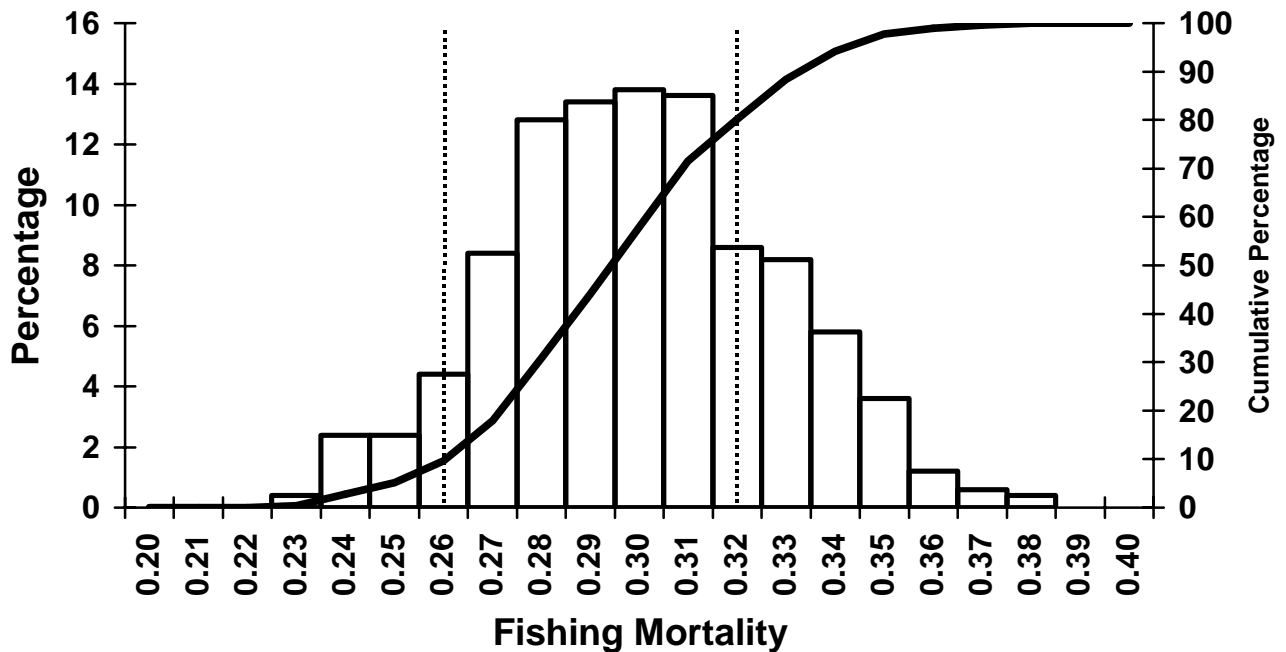
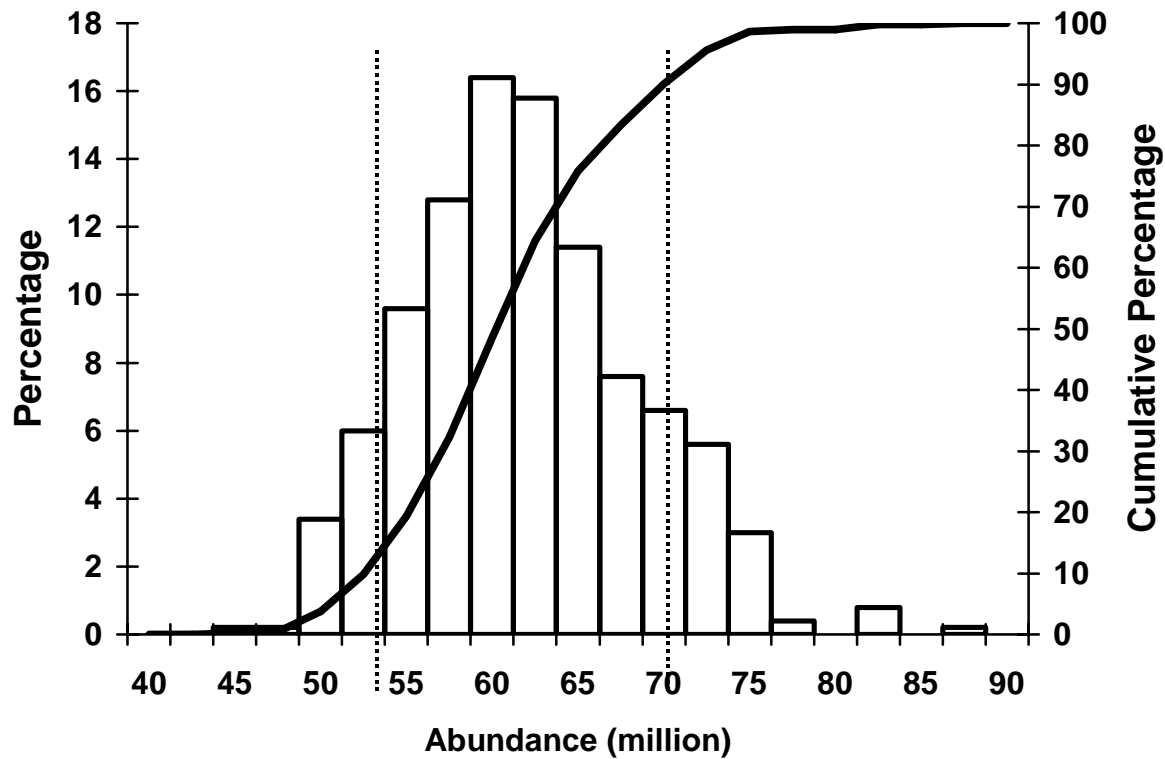


Figure D23. Population size (1+) estimates distribution in 2001 based on 500 bootstrap iterations > 80 % confidence intervals are shown by dashed lines.



Tagging Segment Tables

Table D20. Time series of instantaneous fishing mortality estimates (F) adjusted for live release bias. Results are for Striped bass \geq 18 inches. Reporting Rate (DE) = 0.433.

Coast Programs*

Year	MADFW	NYOHS	NJDEL	NCCOOP
1988		0.28		-0.08
1989		-0.26	-0.23	0.34
1990		0.28	-0.17	0.35
1991		0.00	0.25	0.20
1992	-0.02	-0.18	0.19	-0.08
1993	0.00	0.50	0.30	0.01
1994	-0.01	0.12	0.20	0.39
1995	0.07	-0.16	-0.13	-0.16
1996	0.03	0.13	-0.03	0.46
1997	0.08	0.19	0.35	0.46
1998	0.05	0.54	0.02	0.45
1999	0.07	0.20	0.15	-0.06
2000	0.04	0.39	0.14	0.80
2001	-0.02	0.57	0.14	0.50

Producer Area Programs

Year	DE/PA	MDCB	VARAP	Weighted** Average
1987		0.09		
1988		0.06		
1989		-0.08		
1990		0.22	-0.09	
1991		0.21	1.01	
1992		0.18	-0.08	
1993	0.16	0.23	0.26	0.22
1994	0.11	0.21	0.29	0.20
1995	0.12	0.21	0.17	0.20
1996	0.18	0.25	0.32	0.25
1997	0.22	0.32	0.41	0.31
1998	0.24	0.38	0.70	0.37
1999	0.3	0.45	0.89	0.43
2000	0.33	0.47	0.75	0.46
2001	0.33	0.55	1.20	0.53

* A coastal unweighted average of F for striped bass \geq 18 inches was not provided because MADFW primarily represents fish larger than 28 inches and GOF bootstrap indicated a lack of fit for the full parameterized models of NYOHS and NCCOOP.

** - Weighting Scheme: Delaware (0.10); Maryland (0.90)

VARAP was excluded from the producer area weighted average because a GOF bootstrap analysis indicated a lack of fit for the full parameterized model.