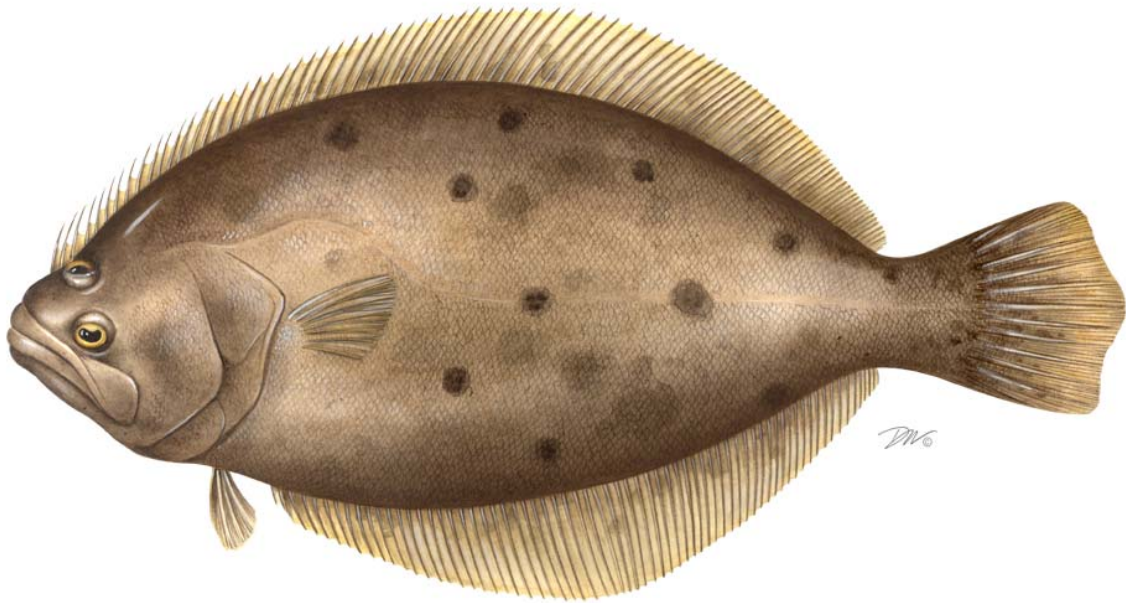


2010 REVIEW OF THE  
ATLANTIC STATES MARINE FISHERIES COMMISSION  
FISHERY MANAGEMENT PLAN FOR THE 2009 SUMMER FLOUNDER FISHERY

**SUMMER FLOUNDER**  
*(Paralichthys dentatus)*



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## **2010 REVIEW OF THE ASMFC FISHERY MANAGEMENT PLAN FOR SUMMER FLOUNDER (*Paralichthys dentatus*)**

### **I. Status of the Fishery Management Plan**

The summer flounder (*Paralichthys dentatus*) fishery of the Atlantic Coast is managed jointly by the ASMFC and the Mid-Atlantic Fishery Management Council (MAFMC). The original ASMFC Fishery Management Plan, established in 1982, recommended a 14 inch minimum size. The MAFMC Plan, prepared in 1988 and based on the ASMFC plan, established a 13" minimum size. Since then, fourteen amendments have been developed and approved, except Amendment 1 which would have required a 5–1/2" minimum mesh size in the codend of trawls and Amendment 11 which would have reallocated commercial quota shares.

Amendment 2 (approved in August 1992) provided a strategy for reducing fishing mortality to  $F_{max}$ , balanced against reasonable impacts on the fishermen. Management measures included a federal (EEZ) moratorium on entry into the commercial fishery, vessel and dealer permitting and reporting requirements, an annual commercial quota, and minimum mesh requirements with an exemption program. Recreational fishery measures include size limits, possession limits, and seasonal closures.

The management system established under Amendment 2 has been modified by the following amendments. Amendment Three (approved in July 1993) revised the mesh requirement exemption program. Amendment Four (approved in September 1993) revised the state-specific shares of the coastwide quota allocation in response to a reporting issue in Connecticut. Amendment Five (approved in December 1993) allows states to transfer or combine their commercial quota shares. Amendment Six (approved in May 1994) allows properly stowed nets with a cod end mesh size less than that stipulated in the plan to be aboard vessels in the summer flounder fishery. Amendment 7 (approved May 1995) adjusted the stock rebuilding schedule and capped the 1996-1997 commercial quotas at 18.51 million pounds. There is no Amendment 8 or 9 to the ASMFC FMP. The MAFMC adopted Scup management measures as Amendment 8 and Black Sea Bass measures as amendment 9, while the ASMFC adopted separate Scup and Black Sea Bass Management Plans.

Amendment 10, approved by the ASMFC in May 1997, initially sought to examine the commercial quota management system. Its scope was expanded to address a number of federal and state issues in the fishery, including: 1) allow framework adjustments to the minimum mesh for any portion of the net; 2) require 5.5" diamond mesh between the wings and the codend of trawls; 3) continue the federal moratorium on entry; 4) remove the requirement that federally permitted vessels must land summer flounder every year; 5) modify the federal vessel replacement criteria; 6) implement state *de minimis* criteria; 7) prohibit transfer at sea; 8) require states to report summer flounder landings from state waters to the NMFS; and 9) allow states to implement a summer flounder filet at sea permit system. The amendment also proposed alternative commercial quota schemes, including 1) a trimester quota with state-by-state shares during summer, 2) a trimester coastwide quota of equal periods, and 3) a revision to the allocation formula. Ultimately, the Board and Council decided to maintain the current state-by-state quota allocation system.

Amendment 12, approved by the Commission in October 1998, was developed to bring the Summer Flounder, Scup, and Black Sea Bass Fishery management Plan in to compliance with the new and revised National Standards and other required provisions of the Sustainable Fisheries Act.

Specifically, the amendment revised the overfishing definitions (National Standard 1) for summer flounder, scup and black sea bass and addressed the new and revised standards relative to the existing management measures (National Standard 8-consider effects on fishing communities, National Standard 9-reduce bycatch, National Standard 10-promote safety at sea). The Amendment also identified essential habitat for summer flounder, scup and black sea bass. Finally, Amendment 12 added a framework adjustment procedure that allows the Council to add or modify management measures through a streamlined public review process. Amendment 12 was partially approved by NMFS on April 28, 1999.

Framework Adjustment 2 to the Summer Flounder, Scup and Black Sea Bass FMP, adopted in January 2001, provided the information and analyses necessary to implement a system of conservation equivalency for the recreational summer flounder fishery. Based on a coastwide recreational harvest limit, Framework 2 allows states to customize summer flounder recreational management measures in order to address issues associated with the availability of summer flounder on spatial and temporal scales.

Addenda III and IV were approved on January 29, 2001. Addendum IV provides that, upon the recommendation of the relevant monitoring committee and joint consideration with the Council, the Board will make a decision concerning what state regulations will be rather than forward a recommendation to NMFS. The states will then be responsible for implementing the Board's decision. Addendum III established specifications for the 2001 recreational summer flounder fishery.

In December 2000, the Commission approved Amendment 13. Although there were some management alternatives included in public hearing drafts of the document that could have resulted in changes to summer flounder management measures, none were approved for implementation. As a result, Amendment 13 will have no impact on the summer flounder fishery.

The Commission approved Addendum VIII in December of 2003. Under this addendum, state-specific targets for recreational landings are derived from the coastwide harvest limit based on each state's proportion of landings reported in 1998.

The Commission approved Addendum XIII in August of 2004. This addendum modifies the FMP so that, within a given year, TALs for the summer flounder, scup, and/or black sea bass can be specified for up to three years. Multi-year TALs do not have to be constant from year to year, but instead are based upon expectations of future stock conditions as indicated by the best available scientific information during the year in which specifications are set.

The Commission approved Addendum XV in December of 2004. This Addendum has been developed to allow for a change in the allocation scheme for the increase commercial quota from 2004 to 2005, approximately 1.3 million pounds, as well as the additional quota from 2004 to 2006, approximately 1.6 million pounds. For the fishing years 2005 and 2006, the associated quota increases will be allocated to the following states as a bycatch allocation. 75,000 pounds of summer flounder will be allocated each to Maryland, New York, Connecticut, and Massachusetts; 15,000 lbs to Delaware; 5,000 lbs to Maine; and 90 lbs to New Hampshire.

The Commission approved Addendum XVII in August of 2005. Addendum XVII establishes a program wherein the board could sub-divide the recreational summer flounder coastwide allocations into voluntary regions. This is an addition management tool in the management toolbox. This addendum also allows the averaging or combination of multiple years of data (i.e. landings-per-angler, length-frequency distributions) in analyses to determine the impacts of proposed recreational management programs. These programs may include minimum fish sizes, possession limits, and fishing seasons. The averaging of annual harvest estimates will not be allowed.

The Commission approved Addendum XVIII in February of 2006. The addendum seeks to stabilize fishing rules as close to those that existed in 2005, in part, to minimize the drastic reductions facing three states. The addendum allows the three states (NY, CT, and MA) facing large reductions in their harvest targets to capitalize on harvest opportunities that are foregone by states that choose to maintain their 2005 recreational fishing rules in 2006.

The objectives of the FMP have not changed and are to: 1) reduce fishing mortality of summer flounder to assure overfishing does not occur; 2) reduce fishing mortality on immature summer flounder to increase spawning stock biomass; 3) improve yield from the fishery; 4) promote compatible management regulations between State and Federal jurisdictions; 5) promote uniform and effective enforcement of regulations; and 6) minimize regulations to achieve the stated objectives.

The management unit includes summer flounder in US waters in the western Atlantic Ocean from the southern border of North Carolina northward to the US - Canadian border. States and jurisdictions with a declared interest in the summer flounder FMP include all those from North Carolina through Massachusetts except Pennsylvania and the District of Columbia, as well as NMFS and USFWS. An ASMFC plan review team, Technical Committee, and species board, and the MAFMC Demersal Species Committee are actively working on this plan. A joint ASMFC-MAFMC Technical Monitoring Committee provides annual framework adjustment advice.

Addendum XIX, approved in August 2007, broadens the descriptions of stock status determination criteria contained within the Summer Flounder, Scup, and Black Sea Bass FMP to allow for greater flexibility in those definitions, while maintaining objective and measurable status determination criteria for identifying when stocks or stock complexes covered by the FMP are overfished. It establishes acceptable categories of peer-review for stock status determination criteria. When these specific peer-review metrics are met and new or updated information is available, the new or revised stock status determination criteria may be incorporated by the Commission directly into the annual management measures for each species.

## **II. Status of the Stock**

The most recent peer review of the summer flounder assessment was the June 2010 Stock Assessment Update. The working group updated the statistical catch at age model, ASAP, with the current year's data.

Relative to the reference points the stock is not overfished and overfishing is not occurring, but is it not rebuilt. F has been declining since the 90s. In 1996 it dropped below 1.0 for the first time since management began. F is estimated to be 0.237 in 2009, below the threshold. SSB declined in the 80s and began to increase in the 90s. In 2009, SSB is estimated to be 117.9 million pounds or 89% of its target. Average recruitment (the number of juvenile fish that will be able to reproduce that year) since 1982 is 42 million fish. Previously, the largest class was in 1983 at 81.6 million fish and the lowest was in 1988 at 12.8 million fish. The 2009 year class estimate is now the largest at 82 million fish.

## **III. Status of the Fishery**

During the late 1980's landings declined dramatically, reaching a low of 9.3 million pounds in the commercial fishery in 1990 and 3.2 million pounds in the recreational fishery in 1989. Following this record low, the commercial landings showed an increasing trend through 1995, but have varied without trend through 2009. For the past three years commercial landings have been over less than 11 million pounds, with 2009 landings at 10.7 million pounds. The principle gear used in the fishery is the otter trawl. Commercial discard losses in the otter trawl and scallop dredge fisheries are estimates from observer data and recently account for 5 to 10% of the total commercial catch.

Recreational landings in 1997 were 11.9 million pounds, double the estimate for 1995. The landings continued to increase through 2000, 16.5 million pounds. Since landings have varied without trend, in 2009 the 6.3 million pounds were landed. Recreational losses have recently accounted for 15 to 20% of the total catch.

## **IV. Status of Assessment Advice**

The summer flounder stock assessment model had historically exhibited a retrospective pattern of underestimation of F and overestimation of SSB; the causes of this pattern have not been determined. A recent pattern of overestimation in recruitment is also evident. Over the last 7 years, the annual internal model retrospective error in F has ranged from +11% in the 2006 terminal year to -35% in 2003, while the annual internal model retrospective error in SSB has ranged from -13% in 2006 to +45% in 2003. Over the last 3 terminal years, the annual internal model retrospective error in recruitment has ranged from +54% for the 2008 year class to +80% for the 2006 year class. Comparison of the estimates for SSB, R, and F over the last three assessments indicates consistency of those estimates in line with the most recent internal retrospective pattern of the 2010 assessment model.

Landings that correspond to fishing at or near the threshold F rate ( $F_{MSY}=F_{35\%}=0.310$ ) may result in overfishing if the previous retrospective pattern of underestimation of F occurs in the future.

### **Biological Reference Points**

- F Threshold= $F_{35\%} = 0.31$
- F Target=  $F_{40\%} = 0.255$
- Current (2009)  $F=0.237$  overfishing is not occurring
- Spawning Stock Biomass (SSB) threshold = 66.2 million lbs
- SSB target = 132.4 million lbs
- Current SSB (2009) =117.9 million lbs stock is not overfished

### **V. Status of Research and Monitoring**

Several states and NMFS conduct seasonal sampling cruises using an otter trawl to assess the condition of summer flounder populations inshore and in the Exclusive Economic Zone (EEZ). Massachusetts collects age and maturity samples and local abundance indices from spring and fall otter trawl surveys, as well as young of the year information in its winter flounder juvenile seine survey. The Commonwealth monitored the commercial fishery through the observation of six directed trawl fishery trips. Rhode Island monitors the commercial quota for summer flounder using an automated IVR system and dealers are required to provide weekly reports through the IVR of summer flounder landings. Connecticut commercial summer flounder landings are monitored through monthly commercial fishermen logbooks, and weekly and monthly dealer reports. These reports contain daily records of fishing and dealer purchase activity. There was no sea sampling or port sampling activity for summer flounder in 2004. New York conducts a survey of anglers on open boats on Great South Bay to collect data on age and size composition from which mortality rates are calculated. New Jersey collects data from the commercial trawl fishery and conducts an ocean trawl survey from which data on summer flounder are collected and catch-per-unit-of-effort and distribution information are generated for juveniles and adults. Delaware's commercial landings are monitored through a mandatory monthly harvest report from all state-licensed fishermen. Maryland constructs a juvenile index from trawl data collected in the ocean side bays and is also compiling data on population age, sex, and size from summer flounder taken in pound nets. A statewide voluntary angler survey is conducted and records location, time spent fishing, number of fish caught, number kept, and lengths of the first 20 fish caught. Virginia prepares a young-of-the-year index from data collected from beach seine and trawl surveys. North Carolina conducts two otter trawl surveys for juvenile fluke, conducts tagging programs to determine migrations and to assess mortality, and collects information on age and growth and catch-per-unit-of-effort for the winter trawl fishery, the estuarine gill net fishery, pound net fisheries, the ocean sink net fishery and the long haul seine fishery.

### **VI. Status of Management Measures and Issues**

Management measures imposed upon harvesters of summer flounder include an annual commercial quota and recreational harvest limit, minimum sizes, minimum mesh requirements for trawls, permits and administrative fees for dealers and vessels, a moratorium on entry into the fishery, mandated use of sea samplers, monitoring of sea turtles in the southern part of the management unit, and collection of data and record keeping by dealers and processors. Fishing mortality has been controlled by a Total Allowable Landings (TAL) since 1983, allocated into a commercial quota (60% of the TAL) and a recreational harvest limit (40% of the TAL). The commercial quota is allocated to each state based on landings during a baseline period, and any overages are subtracted from a state's quota for the following year.

## Summer Flounder Compliance Criteria

The PRT found no compliance issues.

### *De Minimis*

Delaware requests *de minimis* status. The PRT notes that they meet the requirement of *de minimis*.

## COMMERCIAL FISHERY

The following measures may change annually. The 2009 measures are indicated.

Minimum size: 14"

Minimum mesh and threshold: 5.5 diamond, 6" square

Regulation of mesh beyond the codend: 5.5" throughout the mesh

2009 Commercial quota: 11.11 million pounds, 10.88 million lbs after adjustment for the research set a-sides.

In 1998 the Summer Flounder, Scup, and Black Sea Bass Management Board recommended that 15% of each state allocation must be set aside to mitigate discards after closure of the directed summer flounder commercial fishery. To be eligible to land this 15%, the state must adopt appropriate trip limits sufficiently restrictive to allow bycatch landings for the entire year without exceeding the state quota. Additionally, either the state or the fishermen must participate in collection of additional discard data.

The following measures are not subject to annual adjustment.

Quota management provisions: States are required to adopt appropriate measures to manage their quota shares. States may transfer or combine their quota shares as specified in Amendment 5. States must document through a vessel and dealer reporting system all landings that are not otherwise included in the federal monitoring of permit holders. States are required to forward all landings information to the NMFS for inclusion in quota reporting.

Transfer at Sea: States must prohibit permitted summer flounder vessels from transferring summer flounder from one vessel to another at sea. (As specified in Amendment 10)

*De minimis* status: States having commercial landings less than 0.1% of the coastwide total will be eligible for *de minimis* status. (As specified in Amendment 10).

Delaware has requested *de minimis* status and meets the requirements.

## RECREATIONAL FISHERY

The Management Board chose to adopt conservation equivalency for the 2009 recreational fishery under the provisions of Framework 2 (see table 3 for state measures). The following measures are the coastwide non-preferred alternative that the Council recommended to NMFS as required by the FMP:

Minimum size of possession: 20"

Possession limit: 2

Season: May 1-September 30

The Board and Council also recommended precautionary default measures of an 21.5” minimum size and 2 fish possession limit , and a season from May 1-September 30 in the event that any state failed to implement conservationally equivalent measures.

2009 recreational quota: 7.38 million pounds, 7.16 million lbs after adjustment for the research set a-sides.

**OTHER MEASURES**

Filet at sea permit: Party or charter vessels in state waters will be allowed to filet at sea if they obtain a state issued permit allowing such activity. (As specified in Amendment 10)

Reporting:

1. States must submit a commercial fishery management proposal by October 1 of each year. The proposal must detail the specific management measures that the state intends to use to manage their commercial quota allocation. The proposal must be reviewed and approved by the Management Board.

2, States must submit an annual compliance report to the Chairman of the Summer Flounder Plan Review Team by June 1 of each year. The report must detail the state’s management program for the current year and establish proof of compliance with all mandatory management measures and all framework changes specified for the current year. It should include landings information from the previous year, and the results of any monitoring or research program.

*This summary of compliance criteria is intended to serve as a quick reference guide. It in no way alters or supersedes compliance criteria as contained in the Summer Flounder FMP and Amendments thereto.*

**VII. Current State-by-State Implementation of FMP Requirements**

1997 - 2009 Summer Flounder FMP Compliance Schedule

COMMERCIAL:

14" minimum size	3/1/97
5.5" codend mesh	1/1/98
Ability to regulate mesh in any portion of the net	1/1/98
5.5” mesh, body	6/3/98
Prohibition of transfer at sea	1/1/98
Mandatory reporting to NMFS of landings from state waters	1/1/98

RECREATIONAL

Conservation Equivalency to achieve a 40% reduction	TBD
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GENERAL

Submission of annual commercial management plan	10/1/97, annually thereafter
Submission of annual landings and compliance report	6/1/98, annually thereafter



Table 1. Summer Flounder Commercial Landings by State (1994-2009) in thousands of pounds.

Source: National Marine Fisheries Service Commercial Landings Data

State	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
MA	1,031	1,127	800	744	707	812	789	694	10,009	926	1,193	1,274	921	660	644	731
RI	2,648	2,320	1,763	1,565	1,712	1,635	1,704	1,799	2,286	2,178	3,085	2,925	2,123	1,516	1,473	1,794
CT	371	319	266	257	263	245	245	247	357	317	406	449	317	205	221	
NY	1,269	1,245	936	822	822	801	812	752	1,053	1,073	1,549	1,799	1,220	942	856	1,140
NJ	2,354	2,319	2,369	1,320	1,863	1,917	1,848	1,745	2,407	2,385	2,630	2,349	2,380	1,697	1,541	1,797
DE	4	4		5	11	8	12	7	3	6	8	5	4	4	1	3
MD	180	175								329	262	338	248		282	323
VA	3,119	3,312	2,286	2,370	2,616	2,196	2,207	2,660	2,970	3,522	3,906	3,869	2,757	1,859	1,657	1,984
NC	3,593	4,582	4,227	1,501	2,983	2,870	3,387	2,785	4,129	3,572	4,844	4,064	3,981	2,670	2,407	2,859
Total	14,569	15,403	12,647	8,584	10,977	10,484	11,004	10,689	23,214	14,308	17,883	17,072	13,951	9,553	9,082	10,631

Table 2. Summer Flounder Recreational Landings by State (1994-2009) in numbers of fish.

Source: "Personal communication from the National Marine Fisheries Service, Fisheries Statistics Division, October 2010"

State	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NH	59	99	0		0	0	147	0	0	364	0	0	1,507	0	1,039	0
MA	164,939	105,896	89,002	220,234	383,447	174,720	378,720	152,132	155,377	177,449	280,938	203,201	218,996	75,860	150,031	48,311
RI	174,284	119,533	357,247	254,024	394,907	432,087	807,170	268,244	190,741	205,435	288,428	187,983	263,716	232,495	206,501	51,293
CT	316,007	188,531	282,054	243,842	261,401	215,311	371,611	152,813	93,366	165,808	217,031	213,131	107,479	108,528	115,821	61,625
NY	1,855,451	579,239	788,024	1,206,254	1,230,402	759,640	1,671,470	699,625	696,343	1,539,115	937,016	1,147,019	801,938	710,514	565,456	264,508
NJ	2,826,431	1,303,958	3,324,028	3,742,162	2,728,286	1,502,689	3,022,809	2,070,234	988,878	1,784,356	1,887,193	1,395,626	1,560,505	1,327,567	851,447	1,012,806
DE	230,479	99,608	480,946	201,443	218,933	180,562	335,664	145,786	106,837	105,743	123,714	90,659	110,222	117,734	32,953	92,039
MD	81,715	139,697	153,580	64,226	206,057	226,912	258,211	139,392	68,891	41,201	65,949	85,192	58,386	157,360	89,729	89,660
VA	665,152	639,609	1,175,389	946,688	1,164,527	378,283	580,517	1,338,134	772,265	451,348	583,664	584,478	862,309	479,211	228,898	231,991
NC*	388,172	149,546	346,717	287,951	391,136	236,791	374,756	327,249	189,458	87,851	172,736	128,926	152,683	184,476	53,090	58,093
Total	6,702,689	3,325,716	6,996,987	7,166,824	6,979,096	4,106,995	7,801,075	5,293,609	3,262,156	4,558,670	4,556,669	4,036,215	4,137,741	3,393,745	2,294,965	1,910,326

\*Includes all landings from North Carolina, both North and South of Cape Hatteras.

Table 3. 2009 recreational management measures for summer flounder by state.

State	Minimum Size (inches)	Possession Limit	Open Season
Massachusetts	18.5	5 fish	July 1-August 13
Rhode Island	21	6 fish	June 17- December 31
Connecticut	19.5	3 fish	June 15-August 19
New York	21	2 fish	May 15-June 15 and July 3-August 17
New Jersey	18	6 fish	May 23 –September 4
Delaware	18.5	4 fish	All Year
Maryland: Atlantic & Coastal Bays	18	3 fish	April 15-September 13
Chesapeake Bay	16.5	1 fish	
PRFC	16.5	1 fish	April 15-September 13
Virginia	19	5 fish	All year
North Carolina	15 in all waters except the following: 14 in Pamlico Sound <sup>A</sup> , Albemarle Sound <sup>B</sup> , and Browns Inlet South <sup>C</sup> (lat/log are listed below)	8 fish	All Year

- A. **PAMLICO SOUND** - No person may possess flounder less than 14 inches total length taken from internal waters for recreational purposes **west of a line** beginning at a point on Point of Marsh in Carteret County at 35° 04.6166'N – 76° 27.8000'W, then running northeasterly to a point at Bluff Point in Hyde County at 35° 19.7000'N – 76° 09.8500'W. In Core and Clubfoot creeks, the Highway 101 Bridge constitutes the boundary north of which flounder must be at least 14 inches total length.
- B. **ALBEMARLE SOUND** - No person may possess flounder less than 14 inches total length taken from internal waters for recreational purposes **west of a line** beginning at a point 35° 57.3950'N – 76° 00.8166'W on Long Shoal Point; running easterly to a point 35° 56.7316'N – 75° 59.3000' W near Marker “5” in Alligator River; running northeasterly along the Intracoastal Waterway to a point 36° 09.3033'N - 75° 53.4916'W near Marker “171” at the mouth of North River; running northwesterly to a point 36° 09.9093'N – 75° 54.6601'W on Camden Point.
- C. **BROWNS INLET-SOUTH** – No person may possess flounder less than 14 inches total length in internal and Atlantic Ocean fishing waters for recreational purposes **west and south of a line** beginning at a point 34° 37.0000'N – 77° 15.000'W; running southeasterly to a point 34° 32.0000'N – 77° 10.0000'W.

Table 4. 2010 Summer flounder recreational regulations.

State	Minimum Size (inches)	Possession Limit	Open Season
Massachusetts	18.5	5 fish	May 22-September 6
Rhode Island	19.5	6 fish	May 1-December 31
Connecticut	19.5	3 fish	May 15-August 25
New York	21	2 fish	May 15-September 6
New Jersey	18	6 fish	May 29-September 6
Delaware	18.5	4 fish	January 1-October 13
Maryland	19	3 fish	April 17-November 22
PRFC	18.5	4 fish	All year
Virginia	18.5	4 fish	All year
North Carolina	15 in all waters except the following: 14 in Pamlico Sound <sup>A</sup> , Albemarle Sound <sup>B</sup> , and Browns Inlet South <sup>C</sup> (lat/log are listed below)	8 fish	All Year

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- B. **ALBEMARLE SOUND** - No person may possess flounder less than 14 inches total length taken from internal waters for recreational purposes west of a line beginning at a point 35° 58.5844'N – 75° 51.6958'W on Haulover Point; running northerly through a point 36° 00.2557'N – 75° 51.9632' W near Marker "1" in Albemarle Sound; running northerly to a point 36° 08.4891'N - 75° 53.5904' W near Marker "173" at the mouth of North River; running northwesterly to a point 36° 09.9041'N – 75° 54.6863'W on North River Point.
- C. **BROWNS INLET-SOUTH** – No person may possess flounder less than 14 inches total length in internal and Atlantic Ocean fishing waters for recreational purposes **west and south of a line** beginning at a point 34° 37.0000'N – 77° 15.000'W; running southeasterly to a point 34° 32.0000'N – 77° 10.0000'W.