

RHODE ISLAND
DEPARTMENT OF ENVIRONMENTAL
MANAGEMENT

DIVISION OF MARINE FISHERIES



Sector Management Plan

2022

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INTRODUCTION

During the 2002 legislative session, the Rhode Island General Assembly adopted the Commercial Fisheries Management Act, establishing a new commercial fishing license system and ending the moratorium on the issuance of new commercial fishing licenses that had been in place since 1995. One purpose of the act was to allow for new entrants into commercial fisheries, while still restricting access to those fisheries where warranted to rebuild depleted marine fishery stocks or otherwise manage marine resources sustainably.

To meet the purposes of the act, regulations developed included licensing “endorsements” to restrict access to, or to otherwise manage commercial harvest for a particular marine species, group of species, or by gear type. As implied by name, access to a species or fishery that is included in the *restricted* endorsement category is *limited*; while species or fisheries included in a *non-restricted* endorsement category is *open*. The following fishery endorsements are currently included in regulation and addressed in this plan:

- *Restricted Finfish*
- *Non-Restricted Finfish*
- *Bay quahog*
- *Soft-shell clam*
- *Whelk*
- *Shellfish Other*
- *Lobster*
- *Non-lobster Crustacean*

Finfish species for which access is limited in the marine waters of Rhode Island and are therefore included in the *Restricted Finfish Endorsement* include black sea bass, scup (during the summer sub-period only), striped bass, summer flounder and tautog. All other regulated species of finfish common in RI waters (e.g., winter flounder, monkfish) are included in the *Non-Restricted Finfish Endorsement*, which is available to any resident or non-resident license holder.

Shellfish species for which access is limited include bay quahog, soft-shell clam, and whelk, and are included in the *Bay Quahog, Soft-Shell Clam, and Whelk endorsements* respectively. All other regulated species of shellfish (e.g., blue mussel, oyster) are included in the *Shellfish Other Endorsement*, which is available to any Rhode Island resident license holder.

Species of crustaceans for which access is limited include lobster, which is included in the *Lobster Endorsement*. All other regulated species of crustaceans (e.g., Blue crab, Jonah crab) are included in the *Non-Lobster Crustacean Endorsement* which is available to any Rhode Island resident license holder.

The availability of any new restricted endorsements is determined annually as a ratio of licenses not renewed. These *exit:entry ratios* are a principal mechanism in the Rhode Island commercial licensing system used to manage harvest through license access restrictions. Exit:entry ratios are reviewed annually by the Industry Advisory Committee (IAC) and Rhode Island Marine Fisheries Council (RIMFC, Council) and presented for public comment at a public hearing in accordance with the requirements of the Administrative Procedures Act (R.I. Gen. Law §42-35).

Determining the level of fishing effort, the impacts to the resource that a particular license type collectively represents, and thus determining the number of licenses desired in a given fishery as a means to limit such effort, is a primary goal of the licensing program.

Pursuant to [R.I. Gen. Law §20-2.1-9\(5\)](#), this management plan is prepared to address the state of the fishery resources of the state, with focus on those fishery resources with the greatest value to the state and is updated annually prior to any proposed changes to commercial license restrictions on effort and catch. Any amendments made to the commercial licensing regulations must be consistent with this management plan.

The primary goal for quota-managed fisheries is to maintain open seasons with economically viable possession limits while minimizing regulatory discards, avoiding harvest overages, maximizing harvest opportunities, and ensuring equitable access to the fishery. However, due to the multi-species nature of the commercial fishing industry, increased effort can result in shorter seasons and higher discards for many species. Information contained in this plan seeks to aid in understanding if management goals are being realized under existing management and to provide guidance as to the degree of potential new effort that could be sustained in RI's most important fisheries.

This plan includes up-to-date information on stock status, management programs, and fishery performance of commercially important species in the state and provides licensing recommendations based on these parameters for the following year. The plan is provided to the IAC in draft form in August, followed by a public hearing in September, and a RIMFC meeting in October. At their annual meeting in October, the Council offers final recommendations on all restricted endorsements and matters brought to the hearing in September.

RESTRICTED FINFISH

BLACK SEA BASS



STOCK STATUS The [2019 operational assessment](#) found that black sea bass is not overfished nor is overfishing occurring. With improved recruitment and declining Fishing mortality (F) rates, Spawning Stock Biomass (SSB) has experienced time series high levels in recent years. SSB in 2018 was estimated at 73.7 million pounds, 2.4 times the SSB target of 31.1 million pounds, and F was estimated at 0.42,

below the F_{target} of 0.46. Recruitment at age 1 averaged 36 million fish from 1989 to 2018, with recent peaks in 2012 (2011 cohort) at 144.7 million and at 79.4 million in 2016 (2015 cohort). The distribution of black sea bass continues to expand northward into the Gulf of Maine (GOM). Starting in 2020, quotas are set based on projections from this operational assessment. This new assessment will include the newly calibrated Marine Recreational Information Program (MRIP) time series—recalibrated historical recreational harvest has resulted in adjustments to biomass estimates over the time series (NEFSC, 2020).

MANAGEMENT PROGRAM

Black sea bass is managed jointly by the Atlantic States Marine Fisheries Commission (ASMFC) and the Mid-Atlantic Fishery Management Council (MAFMC) through the [Summer Flounder, Scup and Black Sea Bass Fishery Management Plan \(FMP\)](#). The FMP establishes coast-wide quotas for each state annually; with Rhode Island’s share of the quota currently at 11%. Minimum size, seasons, and possession limits are then established by each state annually, with review by the ASMFC/MAFMC to assure compliance with the FMP. The specifications for 2020 are presented in the table below. These recommendations are consistent with the advice of the RIMFC. A Multi-Purpose License or Restricted Finfish Endorsement is required to harvest black sea bass in RI waters.

2021 RI COMMERCIAL REGULATIONS

Min. Size	Season	Allocation (%)	Possession Limit (lbs/vsl)
11”	1/1 – 4/30	25%	750/week
	5/1 – 6/30	25%	100/day
	7/1 – 8/15	20%	100/day
	8/16 – 9/14	10%	50/day
	9/15 – 10/31	10%	50/day
	11/1 – 12/ 31	10%	50/day

Currently, only the first sub-period January 1 – April 30 is managed by aggregate, or weekly, possession limits; all other sub-periods are managed by a daily possession limit. Participants in the Cooperative Multi-State Possession and Landing Pilot Program permit program are authorized to carry multiple possession limits for and land black sea bass in cooperating states during the same fishing trip. As a means to reduce regulatory discards and provide greater flexibility to fishing practices, the Division is currently working to determine if aggregate possession limits are feasible for other sub-periods through the Research Pilot Aggregate Program, which began in 2019.

FISHERY PERFORMANCE

In 2020, 477 commercial fishers (Table 2) landed 553,749 pounds of black sea bass in RI valued (x-vessel) at \$1,332,449 (Table 1). In 2021, the possession limit in the first sub-period was increased three times: on February 14 from 500 to 1,000 lbs/week, on February 28 from 1,000 to 1,500 lbs/week, and on March 14 from 1,500 to 2,000 lbs/week. The limit was decreased on April 11 from 2,000 to 1,000 lbs/week, and the commercial fishery was closed on April 22 until the start of the second sub-period. During the second sub-period, the possession limit was decreased once, on June 20 from 100 to 50 lbs/day, and the commercial fishery was closed on June 27 until the start of the third sub-period.

DMF RECOMMENDATIONS FOR 2022

The coastwide quota for 2022 is anticipated to be 6.09 million lbs, equal to the 2021 quota. Based on fishery performance to date in 2021, the Division recommends maintaining the level of effort at or below current levels and maintaining black sea bass as a restricted species. Sub-period quotas have been fully harvested using in-season possession limit adjustments.

SCUP



STOCK STATUS

The 2019 operational stock assessment found that scup is not overfished nor is overfishing occurring. SSB in 2018 was estimated at 411.33 million pounds, about two times higher than the SSB_{target} of 207.28 million pounds, and F was estimated at 0.158, below the F_{target} of 0.215.

Recruitment at age 0 averaged 134 million fish from 1984 to 2018, with peaks in 1999 at 231 million, 2006 at 264 million, and at

262 million in 2007. The 2015 year class estimate was large at 326 million fish while the 2016-2018 estimates have been below average at 83-112 million fish (NEFSC, 2020).

MANAGEMENT PROGRAM

Scup is managed jointly by the ASMFC and MAFMC through the [Summer Flounder, Scup and Black Sea Bass FMP](#). The FMP establishes coast-wide quotas for each state annually, with RI's share currently at 56.19%.

During the two federal sub-periods, the quota is available coast-wide and is managed through daily possession limits. Scup is classified as a non-restricted species in RI during these two federal sub-periods. In the summer however, scup is classified as a restricted species for the purpose of managing catch rates when landings by state waters fishermen increase. RI further manages the summer sub-period by allocating the state quota into a General Category (GC) (i.e., gear types other than floating fish traps) and Floating Fish Trap (FFT) sector, at 40% and 60% respectively, with allocations to these two sectors based on historical landings. Another key aspect of the management program includes DEM’s authority to transfer quota between the FFT and GC sectors, which provides for the full harvest of the RI quota each year. A Multi-Purpose License or Restricted Finfish Endorsement (summer only, Non-Restricted Finfish Endorsement in winter) is required to harvest scup in RI waters.

2021 RI COMMERCIAL GENERAL CATEGORY REGULATIONS

Min. size	Season	Allocation	Starting Poss. limit
9”	Winter I (federal): (1/1 – 4/30)	Coastwide	50,000 lbs/vsl/day
	Summer: (5/1 – 9/30)	40% of sub-period quota	10,000 lbs/vsl/week
	Winter II (federal): (10/1 – 12/31)	Coastwide	24,000 lbs/vsl/day

2021 RI COMMERCIAL FLOATING FISH TRAP REGULATIONS

Min. size	Season	Allocation	Starting Poss. limit
9”	Winter I (federal): (1/1 – 4/30)	Coastwide	50,000 lbs/vsl/day
	Summer: (5/1 – 9/30)	60% of sub-period quota	Unlimited
	Winter II (federal): (10/1 – 12/31)	Coastwide	24,000 lbs/vsl/day

FISHERY PERFORMANCE

In 2020, 361 commercial fishers (Table 2) landed 4,290,954 pounds of scup in RI valued (x-vessel) at \$2,413,734 (Table 1). To date in 2021, no early closures have been needed, and no possession limit modifications have been implemented (Table 3).

DMF RECOMMENDATIONS FOR 2022

The coastwide quota for 2022 is anticipated to be set at 19.11 million lbs., a slight decrease from 2021, which was set at 20.5 million lbs. Given the anticipated quota, good stock status, and performance to date in 2021, the Division recommends allowing for small increases in effort during the summer sub-period. Additionally, the Division recommends maintaining scup as a restricted species in the summer sub-period and as a non-restricted species only during the federal sub-periods at this time.

STRIPED BASS



STOCK STATUS

A [benchmark stock assessment](#) for striped bass was completed and peer reviewed in November 2018 and subsequently adopted for management use by

the ASMFC management board in May 2019. The assessment findings indicate that the striped bass stock is overfished and experiencing overfishing relative to the updated Biological Reference Points (BRPs). SSB in 2017 was estimated to be 151 million pounds, below both the SSB_{target} and SSB_{threshold}, 252 million pounds and 202 million pounds respectively. SSB has been declining since 2003 and has been below the threshold since 2010. F in 2017 was estimated to be 0.31, above both F_{target} and F_{threshold}, 0.20 and 0.24 respectively. F has been at or above the threshold in 13 of the last 15 years (NEFSC, 2019a).

MANAGEMENT PROGRAM

Striped bass is managed by ASMFC through [Amendment 6](#) to the Interstate FMP for striped bass and its subsequent addenda I-VI, with [Addendum VI](#) being the most recent management document implemented in 2020. The recreational fishery is managed through size and bag limits while the commercial fishery is managed with size limits and state-specific quota allocations. States can implement alternative management measures that are deemed to be equivalent to the preferred measures in the FMP through a Conservation Equivalency (CE) process. In RI, the recreational fishery has a 1 fish bag limit, and as of 2020, a slot limit of 28" - <35". The commercial fishery is split between the General Category (GC) and Floating Fish Trap (FFT) sectors. The GC has a 5 fish possession limit, a 34" minimum size, and gets 61% of the RI allocation. The GC quota is divided between two sub-periods, designed to allocate harvest between inshore bay and offshore Block Island fishing. Days closed to fishing as of 2020 include Friday, Saturday, and Sunday as a means to extend the season as long as possible. The FFT sector operates under an ASMFC approved CE proposal that allows them to have a lower minimum size limit of 26" in exchange for a reduced quota. The FFT fishery opens annually on April 1 at an unlimited possession limit and continues until 70% of the sectors allocation is projected to be harvested. At that time a reduced possession limit of 500 pounds/fish trap licensee/day goes into effect until the FFT allocation is exhausted. If it is projected that the FFT sector will not be able to fully harvest their allocation, the Division may transfer a portion to the GC fishery. A Multi-Purpose License or Restricted Finfish Endorsement is required to harvest Striped bass in RI waters and the harvest of striped bass in federal waters (EEZ) is prohibited.

2021 RI COMMERCIAL GENERAL CATEGORY REGULATIONS

Min. Size	Season	Allocation		Possession Limit
34"	5/20 – 6/30	61%	60%	5 fish/vessel/day CLOSED Fri., Sat., Sun.
	7/1 – 12/31		40%	

2021 RI COMMERCIAL FLOATING FISH TRAP REGULATIONS

Min. Size	Season	Allocation	Possession Limit
26"	4/1 – 12/31	39%	Unlimited until 70% of quota reached, then 500 lbs/licensee/day

FISHERY PERFORMANCE

In 2020, 230 commercial fishers (Table 2) landed 115,891 pounds of striped bass in RI valued (x-vessel) at \$355,029 (Table 1). In 2021, the first sub-period of the GC sector closed on June 23rd, with an average of 12,982 lbs (Table 3). The second sub-period began on July 1 and closed prior to the end of the sub-period on July 9 with an underage of 4,286 lbs. As of the writing of this report, 22,758 lbs remain in the FFT quota.

DMF RECOMMENDATIONS FOR 2022

As a result of the findings of the 2018 striped bass benchmark stock assessments overfishing and overfished status, ASMFC implemented Addendum VI to Amendment 6 to the Interstate FMP for striped bass in 2020 to reduce F to a level at or below the target in one year. The 2022 commercial quota for striped bass is expected to be 148,889 pounds as mandated by Addendum VI, minus any overages that may occur in 2021. The ASMFC management board initiated Amendment 7 in August 2020 to address a host of other issues specified within the striped bass FMP. Currently the ASMFC striped bass Plan Development Team is working on Draft Amendment 7 which is expected to go to the Board for final action in February 2022. As this action is still pending, and therefore any management changes to be implemented in 2022 are currently unknown, the Division recommends maintaining effort at or below current levels and maintaining striped bass as a restricted species.

SUMMER FLOUNDER



STOCK STATUS

The [2021 management track assessment](#) found that summer flounder is not overfished nor is overfishing occurring. With improved recruitment and declining fishing mortality rates since the late 1980s, SSB steadily increased, peaking in the early 2000s. SSB in 2019 was estimated at 104.5 million pounds, higher than the SSB_{threshold} of 68.8 million pounds, and F was estimated at 0.340, lower than the F_{threshold} of 0.422. Recruitment at age

0 in 2019 was estimated to be below the time series average of 53 million fish, at 49 million fish (NEFSC, 2021).

MANAGEMENT PROGRAM

Summer flounder is managed jointly by the ASMFC and MAFMC through the [Summer Flounder, Scup and Black Sea Bass FMP](#). In RI, seasons are divided into three seasonal sub-periods. In 2019 it was deemed that closed days were no longer necessary due to a substantial quota increase, and the fishery was restored to 7 days per week.

A Multi-Purpose License or Restricted Finfish Endorsement is required by license holders to harvest summer flounder in RI waters. Participants in the Cooperative Multi-State Possession and Landing Pilot Program permit program are authorized to carry multiple possession limits for and land summer flounder in cooperating states during the same fishing trip. Aggregate possession limits are available to Summer Flounder Exemption Certificate holders through the Aggregate Landing Program permit system during the first sub-period; the Division is currently working to determine if aggregate possession limits are feasible for other sub-periods through the Research Pilot Aggregate Program (2019-2021). The Division is also in the process of revisiting Summer Flounder Exemption Certificate regulations to more effectively characterize and manage effort in the summer flounder fishery.

2021 RI COMMERCIAL REGULATIONS

Min. size	Season	Allocation	Starting Poss. Limit (lbs/vsl/day)
14"	1/1 – 4/30 (Winter)	54%	100 (2,000 Aggregate-bi-week)
	5/1 – 9/15 (Summer)	35%	100
	9/16 – 12/31 (Fall)	11%	100

FISHERY PERFORMANCE

In 2020, 406 commercial fishers (Table 2) landed 1,701,873 pounds of summer flounder in RI valued (ex-vessel) at \$4,704,102 (Table 1). In 2021, the commercial season opened on January 1 at 100 lbs/vessel/day with the aggregate program starting on January 3 at 2,000 lbs/bi-week. The aggregate program possession limit was increased three times during the Winter I period, to 3,000 lbs/bi-week on February 14 to 4,000 lbs/bi-week on February 28, and to 4,500 lbs/bi-week on March 14. The aggregate program closed on April 25 when the 90% trigger was tripped. Thus far during the second sub-period, the possession limit has been increased once, from 100 to 150 lbs/day on July 15.

DMF RECOMMENDATIONS FOR 2022

The coastwide quota for 2022 is estimated to be 18.48 to 18.94 million lbs, depending on methods chosen for setting specifications for the year. This would be a substantial increase from the 2021 coastwide quota, which was set at 12.49 million lbs. Due to the current quota and current level of effort, the Division recommends maintaining effort at or below current levels and maintaining as a restricted species.

TAUTOG



STOCK STATUS

The [2016 stock assessment update](#), analyzes the stock in 4 regions (Massachusetts/Rhode Island - MARI, Long Island Sound, New Jersey/New York Bight, and Delaware/Maryland/Virginia); the updated assessment finds that the MARI region is not overfished nor is overfishing occurring. SSB has

been fairly steady over the past several years, and is estimated at 2,196 mt, above the threshold of 2,004 mt. F is estimated at 0.23, below the target of 0.28 (ASMFC, 2016).

MANAGEMENT PROGRAM

Tautog is managed regionally by the ASMFC through [Amendment 1](#) to the [Interstate FMP for Tautog](#). Although not specifically required by the FMP, RI has an established commercial quota, which in part achieves the F targets required by the FMP. The commercial quota has remained stable for the past several years at 51,348 pounds. Currently, tautog quota is split between 3 seasons, spring and fall receiving 45% of the quota, and the summer season receiving 15% of the annual quota. Beginning in 2020 and continuing into 2021, per Amendment 1, a commercial tagging program has been instituted in RI. All commercial tautog must be tagged by the fisherman prior to offload for sale in RI. Multi-Purpose License or Restricted Finfish Endorsement is required by license holders to harvest Tautog in RI waters.

2021 RI COMMERCIAL REGULATIONS

Min. Size	Season	Allocation	Possession Limit
16"	1/1 – 3/31		Closed
	4/1 – 5/31	42.5%	10 fish/day
	6/1 – 7/31		Closed
	8/1 - 9/15	15%	10 fish/day
	9/16 - 10/14		Closed
	10/15 - 12/31	42.5%	10 fish/day

FISHERY PERFORMANCE

In 2020, 204 commercial fishers (Table 2) landed 52,561 pounds of tautog in RI valued (x-vessel) at \$161,720 (Table 1). In 2021, the spring season closed 11 days early.

DMF RECOMMENDATIONS FOR 2022

The quota for 2022 is anticipated to be 51,348 pounds, minus any overages that may occur in 2021. Due to uncertainty in stock status pending a 2021 stock assessment update due to be completed in October 2021 with the newly calibrated MRIP data and difficulty with maintaining open seasons, the Division recommends maintaining effort at or below current levels and maintaining as a restricted species.

2022 LICENSING RECOMMENDATIONS - RESTRICTED FINFISH ENDORSEMENT

DMF

The Division remains neutral regarding the exit:entry ratio for the Restricted Finfish endorsement providing there is no impact to the Division's ability to manage quota. The Division has no recommendation to amend the current 1:1 ratio for 2022.

The Division held a workshop on June 22 to solicit recommendations regarding the availability of all fishery endorsements. For the Restricted Finfish endorsement, recommendations were made to maintain status quo (1:1), further restrict availability/no new entrants (1:0), and to liberalize to 1:2. The Division subsequently noticed all three options and held a public hearing on September 13, 2021.

RIMFC

The Council met on October 12, 2021 to provide recommendations to the Director on the proposed rules which were subject of the hearing held on September 13th. At this meeting, the Council recommended to amend the ratio from 1:1 to 1:2, which was subsequently adopted. This amendment will result in the availability of twenty-four new Restricted Finfish endorsements available for issuance in 2022.

NON-RESTRICTED FINFISH

ATLANTIC HERRING



STOCK STATUS

The [2020 Atlantic herring management track stock assessment](#), peer reviewed in June 2020, indicates that overfishing of Atlantic herring is not occurring, but the stock is overfished. Spawning stock biomass has been declining since 2014 and was estimated to be 172 million lbs., well below the SSB threshold of 296.5 million lbs. In 2019, F was estimated to be 0.25, well below the

Fthreshold. of 0.54. Recruitment has been highly variable over the past 50 years, but has been at record-low levels since 2013. Age 1 recruitment in 2019 was estimated to be 666 million fish, well below the time series median of 3.43 billion fish (Wilberg - 2020 Management Track Peer Review Committee Report.pdf n.d.)

MANAGEMENT PROGRAM

Atlantic herring is managed jointly by the ASMFC, NOAA Fisheries and NEFMC. At ASMFC, Atlantic herring are managed through [Amendment 3 to the Interstate FMP for Atlantic Herring](#). Annual specifications are calculated and regional ACLs (quotas) are broken out into fishing

areas. Area 2 encompasses Southern New England (SNE) waters including RI state waters. The 2021 Atlantic herring quota for Area 2 was set to 1,338 metric tons. River herring bycatch is a concern within the Atlantic herring fishery and also has regional ACLs (catch caps) that are set by fishing area and gear type. When the catch cap for river herring is reached in any given area, the Atlantic herring fishery is closed until the next fishing year. The 2020 Area 2 river herring catch cap was set at 251.9 mt. A Multi-Purpose License or Non-Restricted Finfish Endorsement is required to harvest Atlantic herring in RI waters.

In RI, any vessel is eligible to participate in the state waters Atlantic herring fishery. From 2013 to 2021, a permit was required to possess greater than 2,000 pounds; this permit was intended to address issues arising from prohibited species interactions (mainly river herring), and gear conflicts. Amendment 8 to the NEFMC Atlantic herring fishery management plan, which prohibits mid-water trawling inshore of the 12-nautical mile territorial sea boundary, was promulgated by NOAA Fisheries in January of 2021. Because this midwater trawl prohibition addresses many of Division’s concerns surrounding species interactions and gear conflict, Rhode Island’ requirement for the Atlantic herring permit in state waters was removed from regulation in 2021.

FISHERY PERFORMANCE

In 2020, 23 commercial fishers (Table 2) landed 450,137 pounds of Atlantic herring in RI valued (ex-vessel) at \$103,486 (Table 1). A state quota has not been established.

DMF RECOMMENDATIONS FOR 2022

It is recommended that Atlantic herring be maintained as a non-restricted species.

BLUEFISH



STOCK STATUS

The 2021 Operational Stock Assessment Operational Stock Assessment for Bluefish indicates that the stock is overfished but not currently experiencing overfishing. SSB in 2019 was estimated to be 95,742 MT, which is less than the SSBthreshold (100,865 MT). F in 2019 was estimated to be 0.172, below the

Fthreshold (F_{msy} proxy = $F_{35\%SPR}$ = 0.181) (Northeast Fisheries Science Center (NEFSC) 2020).

MANAGEMENT PROGRAM

Bluefish is managed jointly by the ASMFC and MAFMC through the [FMP for Bluefish](#), which sets commercial state-by-state quota allocations; Rhode Island has previously received 6.8% but will receive 9.61% under the newly adopted Amendment 2 to the Bluefish FMP. This increase in allocation will be phased in over the next seven years starting in 2022. Annual commercial coastwide quotas and recreational measures are set jointly by the ASMFC and MAFMC through their specification process. Results of the 2021 operational assessment will be used to set

specifications for the 2022-2023 fishing years. In 2020, RI adopted a reduced recreational possession limit of 5 fish per person per day for the for-hire sector and 3 fish per person per day for the remainder of recreational fishers. To constrain commercial harvest, and prevent any commercial quota overage, RI has adopted weekly aggregate possession limits to allow commercial fishermen to maximize their harvest when they encounter bluefish in large numbers, while minimizing operational costs, and still allowing for up-to-date quota tracking. Additionally, RI also adopted an increased minimum size of 18” and a reduced aggregate possession limit in the summer of 6,000 pounds per vessel per week in 2020. A Multi-Purpose License or Non-Restricted Finfish Endorsement is required to harvest bluefish in RI waters.

2021 RI COMMERCIAL REGULATIONS

Min. Size	Season	Possession Limit (lbs/vsl)
18”	1/1 – 4/30	1000/bi-week
	5/1 – 11/15	6000/week
	11/16 – 12/31	500/week

FISHERY PERFORMANCE

In 2020, 301 commercial fishers (Table 2) landed 334,919 pounds of bluefish in RI valued (x-vessel) at \$394,868 (Table 1). In 2021, the first sub-period remained open for its entirety with no possession limit decreases imposed. The second sub-period has ~,71,071 pounds remaining as of the writing of this report. The state is actively pursuing commercial quota transfers or 2021 to avoid any fishery closures.

DMF RECOMMENDATIONS FOR 2022

In June of 2021, the ASMFC Bluefish Board and MAFMC took action on the Bluefish Allocation and Rebuilding Amendment. As part of this action, the RI commercial allocation will increase from 6.81% to 9.61% with the increase being phased in over the next seven years at 0.40% each year. The approval of the amendment and these revised specifications by NOAA Fisheries is expected to happen later in 2021 so they may be implemented in 2022. At this point in time the 2022 RI allocation is estimated to be the same as 2021, 188,366 lbs. The ASMFC and MAFMC are currently going their annual specification process for 2022 and therefore this quota is subject to change. As it has been projected that the recreational fishery is likely to over-harvest the RHL, no recreational to commercial sector transfers will be possible for 2022. Given a similar quota and the current level of effort, the Division recommends maintaining effort at current levels and maintaining bluefish as a non-restricted species.

However, RI has required frequent commercial transfers from Atlantic states in past years. RI has received transfers ranging from 100,000 lbs. to 180,000 lbs. between 2014 and 2020. The Division will continue to monitor the situation and may consider adding bluefish to the restricted category in the future if transfers continue to occur frequently.

COD



STOCK STATUS

RI State waters are considered part of the George’s Bank (GB) cod stock. An updated [operational assessment](#) for the GB Atlantic Cod stock was completed in 2019. This was a data-limited assessment using the PlanBsmooth approach that updated

commercial fishery catch data through 2018 and updated research survey indices of abundance. Based on this assessment, stock status cannot be quantitatively determined due to a lack of biological reference points, however it is qualitatively assessed as overfished. Overfishing status is unknown. Projections cannot be computed using the PlanBsmooth assessment approach, but instead this approach applies an estimate of recent change in the smoothed survey biomass (rate of change is estimated to be 0.936 in 2019) to the average of the recent three years of catch to produce catch advice (thus influenced by uncertainty in survey estimates). The smoothed survey biomass is decreasing, but without a biomass reference point it is not known if rebuilding is on schedule (NEFSC, 2019b).

MANAGEMENT PROGRAM

Atlantic cod is managed on a federal fishing year (May 1 - April 30) through the NEFMC [Northeast Multispecies FMP](#). Effective July 30, 2020, the 2021 ACL was set at 2,720,504 pounds under Framework 59, identical to FY 2020 under Framework 59. Under Framework 58, the minimum size was lowered to 19” for the commercial fishery and 21” for the recreational and party/charter fisheries. In an effort to complement federal FMPs, RI has adopted a minimum size limit and daily possession limit consistent with federal regulations, and state quota set at 1% of the GB ACL (equal to 27,205 pounds for 2021). A Multi-Purpose License or Non-Restricted Finfish Endorsement is required to harvest Atlantic cod in RI waters.

2021 RI COMMERCIAL REGULATIONS

Min. Size	Season	Possession Limit (lbs/vsl/day)
19”	5/1 – 4/30	1,000

FISHERY PERFORMANCE

In 2020, 113 commercial fishers (Table 2) landed 17,589 pounds of Atlantic cod in RI valued (x-vessel) at \$37,426 (Table 1). These landings include fish caught in state waters, as well as fish caught in federal waters. State-water landings for RI during federal fishing year 2020 totaled approximately 7,944 pounds, or 29.2% of the RI state-water quota. The state quota for cod has not been harvested since its inception in 2009.

Cod abundance in state waters is ephemeral and potential landings for a given year cannot be accurately projected. This fishery still appears to be resource limited and given the ACL for 2021, it is unlikely that the RI state quota will be fully harvested.

DMF RECOMMENDATIONS FOR 2022

The Division recommends that effort be maintained at current levels and that this species be maintained as a non-restricted species.

MENHADEN



STOCK STATUS

In February of 2020, the ASMFC management board adopted both the single-species and Ecological Reference Point (ERP) benchmark stock assessments for management use. According to the single-species, or traditional stock assessment, the stock is not overfished nor is overfishing occurring relative to the current single-species reference points. The current BRPs use F and Fecundity (FEC, number of mature ova) to determine stock status. F in 2017 was

estimated to be 0.11, below both the threshold and target, 0.6 and 0.22 respectively. The ERP assessment did find that the current F threshold and target levels may be too high and should actually be lower to properly account for the importance of menhaden as forage for other species. Fecundity in 2017 was found to be above both the threshold and target (SEDAR, 2020).

MANAGEMENT PROGRAM

Atlantic menhaden are managed by the ASMFC through [Amendment 3](#) to the [Interstate FMP for Atlantic Menhaden](#). The amendment addresses a multitude of commercial management measures, including allocation, quota transfers, quota rollovers, incidental catch, and the Episodic Events (EE) Set Aside Program. The ASMFC's Atlantic Menhaden Management Board sets an annual Total Allowable Catch (TAC) for menhaden that is allocated to the Atlantic coast jurisdictions, with each jurisdiction getting a 0.5% minimum quota allocation, with the remainder of the TAC being distributed to the states based on landings history occurring from 2009-2011. A TAC set-aside of 1% is used each year by states in the New England region (New York to Maine) for EE, or periods of time when large amounts of biomass are present (ASMFC, 2017). RI has participated in the EE Set-Aside Program, which has allowed RI state waters to re-open to the landing of menhaden until the set-aside quota was harvested or the program ended. The RI menhaden allocation is 0.52% of the overall TAC. Upon harvest of the RI quota, the landing of menhaden in RI is prohibited, except for non-directed fisheries which have a bycatch allowance of 6,000 pounds/vessel/day, or 12,000 pounds/vessel/day if two licensed fishermen are on board the vessel. A Multi-Purpose License or Non-Restricted Finfish Endorsement is required to harvest Menhaden in RI waters.

In Rhode Island, Narragansett Bay in its entirety is designated a [Menhaden Management Area](#) through RI statute, which provides the Division with the ability to manage menhaden through additional [management measures](#) including:

- Areas permanently closed to purse seining (i.e., Providence River, Greenwich Bay);
- A daily possession limit of 120,000 pounds/vessel;
- Net size certification;
- Vessel capacity restrictions;
- Call-in requirements;
- A threshold amount of 2,000,000 lbs of fish that must be present in the management area before opening the commercial bait fishery;
- An overall cap on the amount of fish that can be harvested (i.e., 50% of the standing stock in the Bay over the threshold amount);
- A threshold amount of fish that must be present for the commercial bait fishery to remain open (i.e., 1.5 million pounds);
- A Fall opening of the fishery (subject to quota or EE availability) in the southern portion of the management area, regardless of biomass levels, with a daily possession limit of 25,000 lbs/vessel.

Biomass levels in the Management Area are monitored on a weekly or bi-weekly basis through a contracted spotter pilot who provides school counts and an estimate of biomass in pounds of fish. A depletion model for open systems (Gibson 2007) uses these spotter pilot estimates, commercial bait landings, and biological information to provide an overall estimate of biomass present, which is then used to open and close the commercial bait fishery in the management area.

[FISHERY PERFORMANCE](#)

In 2020, 12 commercial fishers (Table 2) landed 198,487 pounds of Atlantic menhaden in RI valued (x-vessel) at \$30,896 (Table 1). To date in 2021, the initial RI state quota of 2,196,815 pounds has been landed. RI applied to and was granted access to the ASMFC Episodic Set Aside quota of 4,285,786 million pounds on June 8, 2021. The menhaden management area was opened on May 17 when biomass was estimated to be above the two million pound threshold. The management area subsequently closed on June 9th when the biomass ceiling, or 50% of the biomass above the 1.5 million pound threshold, was fully harvested. As of the writing of this report the management area has remained closed. RI has received ~1,600,000 pounds of commercial quota transfers in 2021 and will continue to monitor biomass and re-open the management as biomass allows.

[DMF RECOMMENDATIONS FOR 2022](#)

RI's commercial menhaden quota for 2022 is expected to be the same as 2021 quota of 2,196,815 pounds. In August 2021 the menhaden Board initiated Addendum III to Amendment 3 to the menhaden FMP. This addendum will address commercial quota allocations and the ASMFC Episodic Event Set Aside Program. Any management changes from this addendum would likely not take effect until 2023. For 2022 management, the Division will be seeking proposals at public workshop to address increased effort in directed purse seine fishery for menhaden observed in 2021.

MONKFISH



STOCK STATUS

The 2019 monkfish operational assessment (NEFSC, 2019c) used an index-based method that calculates the proportional rate of change in smoothed NEFSC survey indices over three most recent years (2016-2018). This is the same approach applied in the 2016 operational assessment (Richards, 2016), which was applied after the population model (SCALE) used in previous assessments was invalidated due to uncertainty in the ageing methodology used to estimate monkfish growth. As a result, Biological reference points specified in the management plan are no longer relevant. Based on trends in survey results, monkfish stock status has remained steady in the southern management area (SMA) in the past three years (range of change 0.96 –1.04 = no change), likely due primarily to the 2015 recruitment event. Biomass in the SMA increased after the 2015 recruitment event but was lower in 2018 (fall 2017 data missing), as abundance of the 2015 year class declined. Recruitment has returned to average levels.

MANAGEMENT PROGRAM

Monkfish is jointly managed by the NEFMC and MAFMC through the Monkfish FMP on a federal fishing year (May 1 - April 30), with the NEFMC having the administrative lead. Monkfish is managed as two stocks, with RI waters considered part of the SMA stock. The SMA monkfish stock is regulated by the NEFMC through minimum size limits, gear restrictions, and Days at Sea (DAS) restrictions. A Multi-Purpose License or Non-Restricted Finfish Endorsement is required to harvest monkfish in RI waters.

In an effort to complement the FMP, RI has adopted a minimum size, weekly possession limit, and state quota on monkfish harvested in state waters. The May 1, 2020 – April 30, 2021 fishing year RI state-water quota (389,027 lbs) is set at 3% of the SMA Total Allowable Landings (TAL) with a possession limit reduction to 50 lbs/vessel/day tail weight when state-water landings reach 2% (259,351 lbs) of the SMA TAL.

2021 RI COMMERCIAL REGULATIONS:

Min. Size	Season	Possession Limit (lbs/vsl/week)
17" whole/11" tail	5/1 – 4/30	14,259 whole/4,900 tail

FISHERY PERFORMANCE

In 2020, 138 commercial fishers (Table 2) landed 2,072,591 pounds of monkfish in RI valued (x-vessel) at \$21,217,444 (Table 1).

DMF RECOMMENDATIONS FOR 2021

Allowing for a modest increase in effort would appear to still provide for the directed fishery to remain open for the entire fishing year. Maintain as a non-restricted species.

WINTER FLOUNDER



STOCK STATUS

The 2020 [SNE/MA operational stock assessment for winter flounder](#) indicates that the stock is overfished but overfishing is not occurring. SSB in 2019 was estimated to be 3,638 mt, which is 30% of the biomass target and 60% of the biomass threshold for an overfished stock. F in 2019 was estimated to be 0.077 which is 27% if the overfishing threshold (NEFSC, 2017).

MANAGEMENT PROGRAM

Winter flounder is jointly managed on a federal fishing year (May 1 - April 30) by the ASMFC and NEFMC. At the NEFMC, winter flounder are managed through the Northeast Multispecies (Groundfish) FMP. Under [Framework Adjustment 58](#), harvest is allowed in the federal SNE/MA stock management area, and federally permitted vessels participating in a sector are allowed to fish with no limit until they reach their sector allowable catch limit. Federally permitted vessels in the “common pool” are currently restricted to a possession limit of 2,000 lb/vsl/day, or 4,000 lbs/vsl/trip limit, which is adjustable by the NMFS regional administrator. The SNE/MA management area remains open to common pool vessels until the allowable catch limit is reached.

At the state level, ASMFC manages the inshore stocks through the FMP for Inshore Stocks of Winter Flounder and its subsequent [amendments and addenda](#). Winter flounder are managed with minimum size, daily possession limits, mesh size restrictions, and areas closed to harvest. In RI, regulations include areas within state waters closed to commercial and recreational harvest, including Point Judith Pond, the Harbor of Refuge, Potters Pond, and Narragansett Bay north of the Colregs line, which aim to protect a recovery of the population in these areas. In order to maintain a stream of commercial landings for biological data collection used in the stock assessment, RI also adopted a 50 lb daily possession limit. A Multi-Purpose License or *Non-Restricted* Finfish Endorsement is required to harvest winter flounder in RI waters.

2021 RI COMMERCIAL REGULATIONS

Min. Size	Season	Possession Limit (lbs/vsl/day)
12”	1/1 – 12/31	50

FISHERY PERFORMANCE

In 2020, 79 commercial fishers (Table 2) landed 92,406 pounds of winter flounder in RI valued (x-vessel) at \$192,168 (Table 1). A state quota has not existed since 2006.

DMF RECOMMENDATIONS FOR 2022

As the fishery is determined to be overfished, with no overfishing occurring, the Division recommends maintaining effort at or below current levels and maintaining winter flounder as a non-restricted species.

SPINY DOGFISH



STOCK STATUS

The most recent operational stock assessment indicated that the spiny dogfish population is not overfished nor is overfishing occurring. Spawning stock biomass was estimated at 106.8 kt compared to a threshold of 79.6 kt, and the fishing mortality estimate of 0.202 was below the fishing mortality reference point of 0.2439 (Sosebee and Rago, 2017). The assessment method used to inform quotas is index based using data from the Northeast Fisheries Science Center (NEFSC) spring trawl survey to inform area swept biomass estimates for the stock. Reliance on the index approach can be problematic when the survey is not conducted in certain years or the survey misses strata (particularly those strata of traditionally high spiny dogfish biomass.) Also, as an index-based approach, several aspects of the population dynamics, most notably age structure of the population, for the species are not utilized to inform the stock status. A research track assessment has begun to improve the assessment methods used to evaluate the stock, with a target peer-review date of July 2022.

MANAGEMENT PROGRAM

Spiny dogfish is managed on a federal fishing year (May 1 - April 30) by the MAFMC and NEFMC through a joint [FMP](#), with the ASMFC overseeing the species interstate [FMP](#) (NEFSC, 2019d). Spiny dogfish are managed under a quota system. The quota for the May 1, 2021 – April 30, 2022 fishing season was set to just over 27.4 million pounds, with Rhode Island's quota part of the Northern Region (Maine through Connecticut) at 58% of the coastwide allocation. Vessels are limited by a maximum possession of 6,000 pounds per vessel per day. No minimum size exists currently with the species. In October 2019, Addendum VI for the ASMFC Spiny Dogfish Interstate Fishery Management Plan was approved, which allows for commercial quota to be transferred between all regions and states. The addendum scoping also solicited comments on whether to recommend eliminating the federal trip limit and replace it with state or regional trip limits. At this point, the federal trip limit has not been amended. A Multi-Purpose License or Non-Restricted Finfish Endorsement is required to harvest spiny dogfish in RI waters.

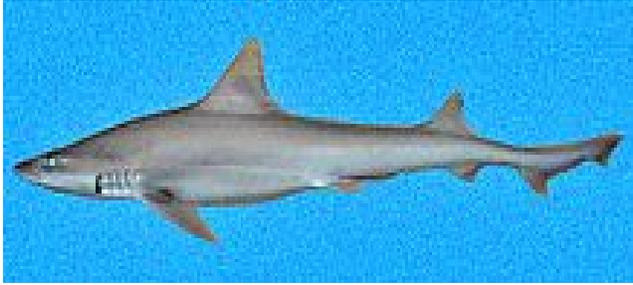
FISHERY PERFORMANCE

In 2020, 29 commercial fishers (Table 2) landed 179,487 pounds of spiny dogfish in RI valued (x-vessel) at \$41,279 (Table 1).

DMF RECOMMENDATIONS FOR 2022

The Division recommends maintaining effort at or below current levels and maintaining as a non-restricted species.

SMOOTH DOGFISH



STOCK STATUS

The [2015 benchmark stock assessment](#) for smooth dogfish indicated that smooth dogfish are not overfished and not experiencing overfishing (SEDAR, 2015). While all model sensitivity runs indicated that the stock is not overfished, one scenario estimated a fishing mortality close to the overfishing reference point. Further, the

peer-reviewers cautioned making major inferences on the stock status given uncertainties in catch and the stock-recruitment relationship (SEDAR, 2015)

MANAGEMENT PROGRAM

Smooth dogfish is jointly managed by NOAA Fisheries and [ASMFC](#). The 2021 Atlantic smooth dogfish quota is 1,802.6 dressed weight (dw), mt (3,971,587 dw lbs). This quota level has not been changed since the 2017 specification. For Rhode Island management, the fishing season is from January 1 through December 31. There is no possession limit or minimum size. A Multi-Purpose License or Non-Restricted Finfish Endorsement is required by license holders to harvest Smooth dogfish in RI waters.

FISHERY PERFORMANCE

In 2020, 30 commercial fishers (Table 2) landed 53,075 pounds of smooth dogfish in RI valued (x-vessel) at \$27,472 (Table 1).

DMF RECOMMENDATIONS FOR 2022

The Division recommends maintaining effort at or below current levels and maintaining as a non-restricted species.

SKATE



STOCK STATUS The skate fishery is broken into two categories: skate wing fishery (primarily winter skate with some barndoor catch) and the skate bait fishery (little skate). Indices of relative abundance (stratified mean weight/tow) have been developed from NEFSC bottom trawl surveys for the seven species in the skate complex. These indices and their rates of change form the basis for the stock status of the complex (K. Sosebee, 2019). For winter skate, the 2016-2018 NEFSC autumn average biomass index of 7.22 kg/tow is above the biomass threshold reference

point (2.83 kg/tow) and above the BMSY proxy (5.66 kg/tow). The 2016-2018 average index is above the 2015-2017 index by 1.2%. For barndoor skate, the 2016-2018 NEFSC autumn average survey biomass index of 1.81 kg/tow is above the biomass threshold reference point (0.78 kg/tow) and the BMSY proxy (1.57 kg/tow). The 2016-2018 average index is above the 2015-

2017 index by 15.3%. It is recommended that winter and barndoor stocks are not overfished and overfishing is not occurring.

For little skate, the 2017-2019 NEFSC spring average biomass index of 5.32 kg/tow is above the biomass threshold reference point (3.07 kg/tow) but below the BMSY proxy (6.15 kg/tow). The 2017-2019 average index is above the 2016-2018 average by 13.4%. It is recommended that the little skate stock is not overfished and overfishing is not occurring.

MANAGEMENT PROGRAM

The skate complex is managed on a federal fishing year (May 1 - April 30) by the NEFMC under the [Northeast Skate Complex FMP](#), which specifies federal-water management for seven skate species (barndoor, clearnose, little, rosette, smooth, thorny and winter skates). The FMP has been updated through a series of amendments and framework adjustments, the most recent being Framework Adjustment 8 [to the Northeast Skate Complex FMP](#), which contains specifications for the 2020 and 2021 fishing years based on updated data and research.

To complement the federal FMP, RI has adopted a weekly wing possession limit of 35,000 pounds/vessel/week; or 79,450 pounds/vessel/week for whole skate. The RI state-water bait fishery is managed and a combination of fishing seasons, daily possession limits, and a maximum size. A Multi-Purpose License or Non-Restricted Finfish Endorsement is required to harvest skate in RI waters.

FISHERY PERFORMANCE

In 2020, 104 commercial fishers (Table 2) landed 2,101,051 pounds (wing weight) of skate, an x-vessel value of \$ 1,198,477 (Table 1) for the skate wing fishery. Also, in 00, 57 fishers (Table 2) landed 5,249,195 pounds of skate with an x-vessel value of \$850,947 (Table 1) for the bait skate fishery.

DMF RECOMMENDATIONS FOR 2022

Allowing for a modest increase in effort and would appear to still provide for the directed skate wing and bait skate fisheries to remain open for the entire fishing year. The Division recommends maintaining as a non-restricted species.

LONGFIN SQUID



STOCK STATUS

According to the MAFMC's [Longfin Squid Fishery Informational Document \(April 2021\)](#), based on the last management track assessment, the status of longfin squid in 2019 was not overfished but there are no overfishing reference points available. The assessment also presented unaveraged trends based on the spring and fall surveys separately representing two dominant cohorts, and solicited input from the reviewers about moving to considering the two

dominant cohorts separately. The reviewers supported moving forward with such an approach - Since the median fall biomass is about five times bigger than the median spring biomass, there

could be considerable management implications if the surveys are ultimately used to manage two cohorts separately (e.g. consideration of either changes to trimester allotments or changes to the overall seasonal management approach might become warranted).

MANAGEMENT PROGRAM

Longfin squid is managed in federal waters jointly by the MAFMC and NOAA Fisheries under the [FMP for Atlantic Mackerel, Squid, and Butterfish](#). The management unit includes all U.S. waters off the U.S. East Coast. In RI, longfin squid is not regulated in state waters. A Non-Restricted Finfish Endorsement is required by license holders to harvest longfin squid in RI waters.

FISHERY PERFORMANCE

In 2020, 132 commercial fishers (Table 2) landed 11.69 million pounds of longfin squid in RI valued (x-vessel) at \$13.64 million (Table 1).

DMF RECOMMENDATIONS FOR 2022

There is no quota established for longfin squid in RI State waters. The Division recommends maintaining longfin squid as a non-restricted species.

NORTHERN SHORTFIN (ILLEX) SQUID



STOCK STATUS . According to the [MAFMC's Illex Fishery Informational Document](#) (April 2021), the status of Illex is unknown with respect to being overfished or not, and unknown with respect to experiencing overfishing or not. Results from the NEFSC Trawl surveys are highly variable and without apparent long-term trend. The Council established a working group (<http://www.mafmc.org/actions/illex-working-group>)

to investigate if current information could suggest that adjustments to the Illex quota are appropriate, and adjustments upward were made in 2020 based on the SSC's review of the workgroup products (<https://www.mafmc.org/sscmeetings/2020/may-12-13>), finding that catches up to 30,000 MT should not cause overfishing. An Illex research track assessment is underway in 2021 and is extending topics investigated by the Council's work group.

MANAGEMENT PROGRAM

Northern shortfin squid is managed by the MAFMC under the [FMP for the Squid, Atlantic mackerel, and Butterfish](#). The management unit includes all U.S. waters off the U.S. East Coast. In RI, Northern shortfin squid is not a regulated species in state waters. A Multi-Purpose License or Non-Restricted Finfish Endorsement is required to harvest northern shortfin squid in RI waters.

FISHERY PERFORMANCE

In 2020, 18 commercial fishers (Table 2) landed 21.77 million pounds of northern shortfin squid with an x-vessel value of \$11.20 million (Table 1).

DMF RECOMMENDATIONS FOR 2022

There is no quota or regulations established for northern shortfin squid in RI State waters. The Division recommends maintaining illex squid as a non-restricted species.

2022 LICENSING RECOMMENDATIONS - NON-RESTRICTED FINFISH ENDORSEMENT

DMF

The Non-Restricted Finfish Endorsement is an open endorsement available to any licensed person. The number of these endorsements issued has decreased over the past several years (Table 4) with no discernible effects on the landings of non-restricted species. The Division recommends maintaining the current open availability status of the Non-Restricted Finfish endorsement for 2022.

RIMFC

No recommendation was made to amend the open availability of the Non-Restricted Finfish endorsement for 2022.

SHELLFISH

BAY QUAHAUG



RESOURCE ASSESSMENT

A formal, peer-reviewed stock assessment does not currently exist, but is being developed. However, both landings and relative abundance indices (the latter derived from DEM's hydraulic clam dredge survey) suggest the resource has been stable over the last several years. A new assessment is being developed to better assess the stock's status and improve its scientific rigor.

MANAGEMENT PROGRAM

A minimum size of 1 inch (hinge width) and daily possession limits have been established. Shellfish management Areas (SMA) with reduced possession limits and restricted harvest schedules have also been established to further manage effort in the coastal ponds and areas of Narragansett Bay. An endorsement category specific to bay quahaug has been established in rule, with either a Multi-Purpose License, Over 65 Shellfish License, Student Shellfish License, or Bay Quahaug Endorsement is required to harvest bay quahaugs in RI waters. An exit:entry ratio of 1:1 is currently established in rule.

FISHERY PERFORMANCE

In 2020, 502 commercial fishers (Table 2) landed 342,010 meat weight pounds of bay quahaugs, in RI worth \$3,392,338 (Table 1).

2022 LICENSING RECOMMENDATIONS - BAY QUAHAUG ENDORSEMENT

DMF

The Division recommends maintaining effort at current levels for the bay quahog fishery.

RIMFC

No recommendation was made to amend the exit:entry ratio of the Bay Quahaug endorsement for 2022.

SOFT-SHELL CLAM



RESOURCE ASSESSMENT

A dynamic depletion model for open populations, based on the work of Restrepo (1998) and Sosa-Cordero (2003), suggested that the soft shell clam population declined from 2006 to 2011 with recruitment failing to replace fishery removals (Gibson 2012) and overfishing occurring. Since 2012 the model has not been updated due to a collapse in the fishery and absence of a recent depletion study. During the peak of the fishery in 2010,

an increase in minimum size, by itself, did not stop overfishing, and catch limits needed to be reduced to less than three bushels per day to bring fishing mortality rates into balance with resource productivity (Gibson 2012).

In addition, there is evidence of a decline of soft-shell clams in response to *Mya* leukemia.(Metzger et al. 2016; Walker et al. 2009). In RI, densities have substantially declined in both fished and unfished soft-shell clam beds and landings continue to decline. Results from work in the coastal ponds combined with anecdotal observations and landings suggest that the stock is severely depleted.

MANAGEMENT PROGRAM

A minimum size of 2 inches (longest axis) and daily possession limits have been established. Shellfish management Areas (SMA) with reduced possession limits and restricted harvest schedules have also been established to further manage effort in the coastal ponds and areas of Narragansett Bay. residents only. An endorsement category specific to soft-shell clam has been established in rule, with either a Multi-Purpose License or Soft-shell clam Endorsement required to harvest soft-shell clams in RI waters. An exit:entry ratio of 5:1 is currently established in rule due to the low abundance of soft-shell clams in RI waters.

FISHERY PERFORMANCE

In 2020, 25 commercial fishers (Table 2) landed 1,068 pounds meat weight of soft-shell clams in RI, valued at \$15,688 (Table 1). Currently, landings are the lowest recorded in the time series.

2022 LICENSING RECOMMENDATIONS - SOFT-SHELL CLAM ENDORSEMENT

DMF

Due to the continued poor abundance of the resource, as evidenced by landings data, the Division recommends that further reductions in effort in the soft-shell clam fishery be considered.

RIMFC

No recommendation was made to amend the exit:entry ratio of the Soft-Shell Clam endorsement for 2022.

WHELK (Channeled and Knobbed)



RESOURCE ASSESSMENT

The first Rhode Island whelk resource assessment using a Biomass Dynamic Model (BDM) (Gibson 2010) was updated in 2016 and included data through 2015. The assessment concluded that F has risen since the original assessment with $F_{2015} = 0.5$, which is at or above both F_{msy} and the F target level ($F_{msy}=0.53$; $F_{target} = 0.39$), so overfishing is likely occurring. Stock biomass is declining but remains above the threshold for overfished status. In

2020, the Division was awarded a U.S. Fish and Wildlife Service State Wildlife grant to conduct a histological study of female channeled whelk gonad maturity. The objectives of this research are to develop more accurate estimates of female size at maturity channeled whelk using microscopic, histological methodologies; compare size at maturity estimates from histological gonad examination with estimates generated from macroscopic, visual gonad examination (Angell, 2018); and to provide better information for guiding whelk fishery management in RI state waters.

MANAGEMENT PROGRAM

The two species of whelk landed in RI are managed under the same regulatory provisions. The fishery is open year-round to RI residents only. All whelks must be landed whole in the shell and adhere to a minimum size (2- $\frac{1}{4}$ inch shell height). A commercial possession limit of 35 bushels/day and a 300-pot limit/licensee have been established in rule. The 300-pot limit is enforced via a pot tagging program administered by the Division. An endorsement category specific to whelk has been established in rule, with either a Multi-Purpose License or Whelk Endorsement required to harvest whelk in RI waters. Eligibility for this endorsement is restricted to license holders who hold an actively fished Quahaug or Soft-

Shell Clam Endorsement.

FISHERY PERFORMANCE

In 2020, 9 commercial fishers (Table 2) landed 444,103 pounds live weight of whelk (species combined) in RI, with a value of \$1,235,004 (Table 1). Of the two species landed in RI, channeled whelk constitutes 98% of reported landings.

2022 LICENSING RECOMMENDATIONS - WHELK ENDORSEMENT

DMF

Due to the current status of the resource, the Division recommends maintaining effort at current levels.

RIMFC

No recommendation was made to amend the availability of the Whelk endorsement for 2022.

OYSTER



STOCK STATUS

The status of the RI oyster stock is currently unassessed, but is considered greatly depressed compared to historic levels (Beck et al. 2011; Griffin 2016). According to local researchers studying oyster populations within Narragansett Bay, the effects of disease, environmental conditions, poor sets of new recruits, and fishing pressure are all responsible for the sharp decline in abundance levels (Oviatt et al. 1998).

Given the low abundance of the wild oyster population, increased fishing pressure would facilitate even greater depletions of the resource. Until levels of recruitment increase, the stock will likely remain severely depleted. Several oyster restoration and enhancement projects are currently being conducting in RI waters, as well as research investigating the status of oyster populations throughout RI coastal waters for the purpose of developing a state-wide shellfish restoration and enhancement plan. Further investigation into the effects of fishing effort will be revisited when the stock has recovered.

CURRENT MANAGEMENT PROGRAM

A minimum size of 3 inches (longest axis) and daily possession limits have been established. Shellfish management Areas (SMA) with reduced possession limits and restricted harvest schedules have also been established to further manage effort in the coastal ponds and areas of Narragansett Bay. Oyster harvest is managed under the Shellfish Other Endorsement which is an open entry endorsement. Oyster restoration efforts are being conducted in a number of coastal

ponds and portions of the Narragansett Bay, aimed at identifying the best restoration practices for establishing oyster reefs in the closed areas.

FISHERY PERFORMANCE

In 2020, 12 commercial fishers (Table 2) landed 1,342 meat weight pounds, in RI worth \$23,056 (Table 1).

OTHER SHELLFISH



STOCK STATUS

Other species of shellfish commercially harvested within Rhode Island waters in the Shellfish Other Endorsement other than oysters include blue mussels, bay scallops, sea scallops, surf clams and razor clams. These species are not routinely assessed by DEM, in large part due to the low volume of landings, which results in a lack of available data to conduct comprehensive analytical assessments on the status of these populations. However, landings data and

anecdotal evidence from the commercial fishing industry are reviewed annually by the Division and are used for identifying species that warrant further research.

CURRENT MANAGEMENT PROGRAM

Species of shellfish other than bay quahog, soft-shell clam, and whelk are included and managed under the Shellfish Other Endorsement. Minimum size and possession limits are established for oysters, bay scallop, sea scallop, and surf clam. In addition to creating SMAs to support Oyster management (e.g., Jacobs Point, Bissel Cove, Narrow River, Green Hill Pond), the Sakonnet River SMA was created for the management of surf clams. The Shellfish Other Endorsement is an open license category available to any license holder and is not managed with an exit/entry ratio system.

FISHERY PERFORMANCE

In 2020, 4 commercial fishers (table 2) landed 1,315 meat weight pounds of other shellfish species not including oysters, worth \$9,797 (Table 1). Combined with oyster landings, fishers of all shellfish other species landed a total of 2,657 meat weight pounds, worth \$32,853.

2022 LICENSING RECOMMENDATIONS - SHELLFISH OTHER ENDORSEMENT

DMF

The Division recommends maintaining the current open availability status of the Shellfish Other endorsement for 2022.

RIMFC

No recommendation was made to amend the open availability status of the Shellfish Other endorsement for 2022.

CRUSTACEANS

LOBSTER



STOCK STATUS

The 2020 American Lobster Benchmark Stock Assessment and Peer Review Report indicated disparate trajectories for the two stocks: Gulf of Maine/Georges Bank (GOM/GB) and Southern New England (SNE). The GOM/GB stock size has steadily increased since the 1980s , with stock abundance and recruitment increasing at an

accelerated rate since 2007 (ASMFC, 2020). The GOM/GB stock is not overfished and not experiencing overfishing. The SNE stock increased from the 1980s up until the late 1990s, where after the stock as precipitously declined to record lows in 2018. The 2020 Benchmark Assessment concluded that the SNE stock is severely depleted, with recruitment and spawning stock biomass trajectories highlighting exceptionally low recruitment rates, often termed a recruitment failure (ASMFC, 2020). The poor SNE stock condition has be attributed to several environmental factors (e.g. warming waters, shell disease prevalence, increased predation) as well as continued fishing mortality. Despite attrition among the commercial fleet and fewer traps fished for lobster, the population has continued to decline. Reduced lobster abundances are most pronounced in inshore waters, where several studies have indicated offshore waters may still be habitable for lobsters (Mazur et al. 2020; Tanaka et al. 2020). However, the reduction in SNE lobsters is evident in both inshore and offshore waters (ASMFC, 2020).

MANAGEMENT PROGRAM

Lobster is managed by the ASMFC through the [FMP for lobster](#) and its subsequent [amendments and addenda](#), with management measures varying by Lobster Conservation Management Areas (LCMA). Rhode Island state waters comprise a portion of LCMA 2, but Rhode Island harvesters land lobsters from various LCMA within the Northeast U.S. Shelf. DEM complies with the FMP through a set of management measures including minimum/maximum gauge and escape vent sizes, trap limits, protection of egg-bearing females, v-notching, a recently completed trap reduction schedule , and a 10% conservation tax on trap allocation transfers designed to further reduce the number of traps fished and fishing mortality. Both state (RI-MA) and federal waters are included in LCMA 2, requiring cooperative management for this region. Additionally, in RI, participants in the lobster fishery must possess either a Multipurpose Fishing License, a Principal Effort license with a Lobster Endorsement, or a Commercial Fishing License with Lobster Endorsement. Participants who do not hold a LCMA 2 Lobster Trap Allocation (LTA) are

prohibited from harvesting lobster from pots and are limited to 100 lobsters per day or 500 lobsters for fishing trips 5 days or longer.

Following the 2020 Benchmark Stock Assessment, there has not been discussion on future management actions for the SNE lobster stock. However, there are active discussions on proactive management measures to increase the resiliency of the GOM/GBK lobster population and fishery in the event environmental conditions worsen for the species in this region. The goal of Draft Addendum XXVII is to increase the resiliency of the GOM/GBK stock by considering the standardization of management measures across LCMAs in this stock, such as minimum/maximum sizes, vent sizes, and v-notch definitions.

FISHERY PERFORMANCE

The regional SNE lobster population has experienced a significant decline in abundance since the 1990's (ASMFC, 2020), which has corresponded to the removal of latent effort in the fishery and reduced landings. The number of participants landing lobster decreased from 2017 to 2018 (Table 2). The trap reduction program continued in 2018-2019, with total traps reduced based on the 5% reduction and the conservation tax (Table 6). In 2020, 129 fishers (Table 2) landed 1,694,754 pounds of lobster in RI, with an ex-vessel value of \$9,533,594 (Table 1).

DIVISION RECOMMENDATIONS FOR 2022

The state will continue to work with the ASMFC to build a sustainable lobster resource throughout the region. Attrition appears to still be occurring in the industry. The state began to reduce effort through the trap reductions included in Addendum XVIII starting in 2016. This effort aimed to remove latent effort from the fishery that could be reactivated if resource conditions improve, as well as reduce fishing mortality from active fishing effort. Active trap numbers and exploitation rates will be further evaluated after the approval of the 2020 Benchmark Assessment and the final year of the trap reductions schedule to assess the success of management action. Participation in LCMA 2 is based on historical performance and the state has reviewed lobster licensing and made appropriate changes in preparation for limited access-historical performance. An LTA transferability program that was initiated with Addendum XII has been developed in consultation with ASMFC and NOAA Fisheries via Addenda XVIII, XIX, and XXI. This can be used to bring new individuals into the fishery without increasing effort above that qualified in the initial trap allocation.

2022 LICENSING RECOMMENDATIONS - LOBSTER ENDORSEMENT

DMF

In view of ASMFC compliance requirements and state law, the Division recommends that the moratorium on the issuance of new lobster endorsements be continued for 2022.

RIMFC

No recommendation was made to amend the availability of the Lobster endorsement for 2022.

JONAH CRAB



STOCK STATUS

Previously regarded as bycatch in the American lobster fishery, Jonah crab started gaining attention in the mid 2000's as commercial landings started to increase, reaching a high of 20.2 million pounds in 2018 (ASMFC, n.d.). As commercial landings have increased and since ASMFC has started to manage Jonah crab, state, federal, and academic scientists have endeavored to collect data on Jonah crab life history and population characteristics to perform a formal stock assessment. No time table has been set for such an assessment.

MANAGEMENT PROGRAM

Jonah crab is managed at the regional level by the ASMFC [Interstate FMP for Jonah crab](#) and its subsequent addenda I-III. The FMP was first adopted in 2016 and includes an LTA requirement, a minimum size limit of 4.75", and the prohibition of egg bearing females. Pursuant to the FMP, a control date of June 1, 2016 was established in RI. [Addendum I](#) establishes incidental bycatch limits for non-trap gear and non-lobster trap gear, [Addendum II](#) sets limits on claw harvest, and [Addendum III](#) stipulates requirements for harvester reporting and biological data collection.

Per Addendum I, a bycatch limit of 1,000 crabs per trip for non-trap and non-lobster fishermen was set. To avoid the unintentional outcome of this addendum of creating small industries operating solely under this provision, the ASMFC Jonah Crab Board aimed to define bycatch. As per ASMFC, Jonah crab caught under the bycatch limit must comprise an amount lower, in pounds, than the target species the deployed gear is targeting. Target species is further defined as: "those species primarily sought by the fishermen in the fishery" and are "the subject of directed fishing effort." Addendum II, adopted in early 2017, allows Jonah crab fishermen to detach and harvest claws at sea, with a required minimum claw length of 2.75" if the volume of claws landed is greater than five gallons. Currently, only whole Jonah crab may be retained and sold in Rhode Island (i.e., landing detached claws is prohibited).

In RI, Jonah crab is included and managed under the Non-lobster Crustacean Endorsement. The directed fishery is limited to any licensed person who holds an LTA, or any person who does not hold an LTA but can prove participation in the Jonah crab fishery prior to the control date.

FISHERY PERFORMANCE

In 2020, 57 fishers (Table 2) landed 3,319,652 pounds of Jonah Crab, with an ex-vessel value of \$2,763,949 (Table 1).

DMF RECOMMENDATIONS FOR 2022

The Division recommends that RI remains compliant with the ASMFC provisions and continues its work toward collecting biological and fishery information on Jonah Crab for a future, formal stock assessment. No changes to Jonah crab licensing requirements are

recommended for 2022. Maintain as a non-restricted crustacean species as well as continue requirements for the directed fishery.

ATLANTIC ROCK CRAB



STOCK STATUS

Status unknown; No stock assessment has been performed on Atlantic rock crab.

MANAGEMENT PROGRAM

In RI, Atlantic rock crab is included and managed under the Non-Lobster Crustacean Endorsement. As an unrestricted/open endorsement, any license holder may access the fishery. There is neither a possession limit nor any additional restrictions in effort or harvest at this time. A control date was established on June 1, 2016.

FISHERY PERFORMANCE

Being an unregulated fishery, overall performance cannot be determined. In 2020, 28 fishers (Table 2) landed 78,078 pounds of Atlantic rock crab with an ex-vessel value of \$68,776 (Table 1). This is approximately a 17% decrease in landings from 2019.

DMF RECOMMENDATIONS FOR 2022

The Atlantic rock crab fishery is not managed under any FMP; it is an unregulated species. Effort limitations are not subject to lobster trap allocation and tagging requirements making enforcement of un-tagged traps problematic in state waters. Consideration should be given to a dedicated trap tag program to potentially control effort and identify fishery specific gear. No changes to licensing requirements are recommended for 2022. Maintain as a non-restricted crustacean.

HORSESHOE CRAB



STOCK STATUS

The [2019 benchmark stock assessment](#) of horseshoe crab indicates high variability in trends among the coastal regions. The Southeast is the only area indicating an increase in abundance while Delaware Bay and the Northeast show consistent abundance and the New York region is seeing a decline (ASMFC, 2019). While this is an improvement for the Northeast region from the 2013 stock assessment update status which exhibited a decline,

Rhode Island specific data continues to show a downward trend. This neutral status in 2019 was achieved by Rhode Island's negative trend being counterbalanced by the improving Massachusetts stock status.

The Division is currently conducting a state specific stock assessment of horseshoe crab using both fishery dependent and independent data. The goal of this assessment is to guide consideration of management proposals and inquiries submitted by industry and conservation groups alike. As there has been no indication of improvement within the local population since rigorous management measures were taken in 2017, the Division remains concerned about the status of this species on the state level.

MANAGEMENT PROGRAM

The commercial horseshoe crab fishery is managed at the regional level by the ASMFC [Interstate FMP for horseshoe crabs](#) and its subsequent [addenda](#). In RI waters, horseshoe crab is included and managed under the Non-Lobster Crustacean Endorsement. DEM uses temporal closures, possession limits, state established quotas, and a permitting/reporting program to achieve compliance with the FMP. In 2017, DEM regulations were adopted establishing broader time closures, improved reporting and reporting compliance measures, a minimum size of 7" (prosomal width), and daily possession limits for the bait fishery of 60 crabs per person per day. The biomedical daily possession limit is equal to the total annual quota.

In 2019, the Division was awarded a State Wildlife Grant to initiate a deeper investigation into Rhode Island's horseshoe crab population. The goal of this research is to determine whether there are discrete, segregated populations of horseshoe crabs in Rhode Island waters, how different they are from other Southern New England states, and whether there is mixing between spawning contingents. Phenotypic, genetic, and tagging data are the three main components of this study. The results of this study will be used to inform sustainable management practices for horseshoe crabs. Despite the Covid-19 pandemic this research has progressed as scheduled and should be completed by the end of 2022.

FISHERY PERFORMANCE

The use of temporal closures and possession limits in the State's bait fishery has greatly restricted harvest during peak spawning activity and resulted in reduced fishing mortality rates and harvest equity among participants. However, due to a small quota and the nature of accountable commercial harvest, overages may occur annually and must be deducted from the following year possibly resulting in a shorter harvest season and may limit resource access. Annual bait harvest since 2017 has been less than 20% of the allotted quota. Biomedical harvest rates are driven by the needs of biomedical companies which bleed the crabs for medical testing. The estimated mortality rate of bled crabs is 15% (ASMFC, 2019). In 2020, 19 fishers (Table 2) contributed to the combined bait and biomedical fisheries landed 73,567 pounds of horseshoe crab worth \$30,982 in RI (Table 1).

DMF RECOMMENDATIONS FOR 2022

Until the assessment is complete, the Division does not recommend additional changes and recommends maintaining as a non-restricted species in the *Other Crustaceans* endorsement category.

OTHER CRUSTACEANS



STOCK STATUS

Commercial landings in RI of crustacean species other than lobster, horseshoe crab, Jonah crab, and Atlantic rock crab include green crab (*Carcinus maenas*), blue crab (*Callinectes sapidus*), deep-sea red crab (*Chaceon quinqueedens*), and mantis shrimp (*Squilla empusa*). These species are not routinely assessed by DEM, in large part due to the low volume of landings, which results in a lack of available data to conduct comprehensive analytical assessments. However, landings data and anecdotal evidence from the commercial fishing

industry are reviewed annually by DMF and are useful pieces of information in identifying populations that warrant further research.

To date, no assessment of the blue crab population in RI has been conducted. Beginning in the winter of 2021, the Division will be implementing a dedicated blue crab dredge survey with the goal of assessing their distribution and abundance in Narragansett Bay. The data collected from this survey will be used to support future management decisions and potential regulatory changes.

MANAGEMENT PROGRAM

In RI, blue crab are subject to a minimum size of 5” from shell tip to tip. Harvest is limited to 25 crabs, unless using a scoop or crab net, trot, or hand line. Deep-sea red crab is managed by a federal permit.

FISHERY PERFORMANCE

In 2020, 12 fishers (Table 2) landed 57,809 pounds of these species with an x-vessel value of \$41,894 (Table 1).

2022 LICENSING RECOMMENDATIONS - NON-LOBSTER CRUSTACEAN ENDORSEMENT

DMF

The Division recommends maintaining the current open availability status of the Non-Lobster Crustacean endorsement for 2022.

RIMFC

No recommendation was made to amend the open availability status of the Non-Lobster Crustacean endorsement for 2022.

GILL NET ENDORSEMENT

MANAGEMENT PROGRAM

[RIGL § 20-4-13](#) requires a commercial gill net endorsement in order to be authorized to set, haul, or maintain a gill net in state waters. The gill net endorsement is currently under moratorium status, with no new gill net endorsements available for issuance. Gill net endorsements may be renewed annually or transferred as part of a sale of business or family/crew member transaction.

FISHERY PERFORMANCE

During 2021 there were 47 participants in the gill net fishery. The top five species landed were: Skate @ 2,461,174 lbs; Monkfish @ 1,508,689 lbs; Spiny Dogfish @ 149,590 lbs; Bluefish @ 220,944 lbs; and Scup @ 107,181 lbs.

DMF

The Division recommends that the Gill Net Endorsement remain in moratorium status with no new endorsements available for issuance. The endorsement remains available for renewal by current endorsements holders.

RIMFC

No recommendation was made to amend the availability status of the Gill Net endorsement for 2022.

PURSE SEINE & MID WATER/PAIR TRAWL ENDORSEMENTS

MANAGEMENT PROGRAM

This endorsement is required to deploy either of these two commercial gear types in state waters. Both endorsements are open and available for purchase during the application period at a cost of \$20.

FISHERY PERFORMANCE

During 2020 there were no reports of purse seine or mid water trawl landings from state waters.

DMF

The Division recommends maintaining the current open availability status of the Purse Seine and Mid Water/Pair Trawl endorsement for 2022.

RIMFC

No recommendation was made to amend the availability status of the Purse Seine & Mid-Water/Pair Trawl endorsement for 2022.

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TABLES

Table 1. 2020 pounds landed and total x-vessel value (dollars) for species landed in Rhode Island.

Species	Pounds	Value (x-vessel)
Black Sea Bass	553,749	1,332,449
Scup	4,290,954	2,413,734
Striped Bass	115,891	355,029
Summer Flounder	1,701,873	4,704,102
Tautog	52,561	161,720
Bluefish	334,919	394,868
Atlantic Cod	17,589	37,426
Atlantic Herring	450,137	103,486
Menhaden	198,487	30,896
Monkfish	2,072,591	1,217,444
Winter Flounder	92,406	192,168
Skates (Wings)	2,101,051	1,198,477
Skates (Bait)	5,249,195	850,947
Spiny Dogfish	179,487	41,279
Smooth Dogfish	53,075	27,472
Squid (Longfin)	11,692,093	13,640,903
Squid (Illex)	21,772,706	11,203,586
Lobster	1,694,754	9,533,594
Jonah Crab	3,319,652	2,763,949
Horseshoe Crab	73,567	30,982
Atlantic Rock Crab	78,078	68,776
Other Crabs	57,809	41,894
Quahaug*	342,010	3,392,338
Soft-shell Clam*	1,068	15,688
Whelk (Channeled and Knobbed)	401,771	1,235,004
Other Shellfish*	1,315	9,797
Sea Scallops*	1,272,761	11,338,643
Oyster*	1,342	23,056
* meat weight		

Table 2: Number of participants per species per year (2015-2020)

Species	2015	2016	2017	2018	2019	2020
BAIT SKATE	30	36	42	46	51	57
BLUEFISH	340	362	339	278	333	301
CLAM, NORTHERN QUAHAUG	524	562	538	538	548	502
CLAM, SOFT	62	41	35	31	23	25
COD, ATLANTIC	127	139	107	87	84	113
CRAB, ATLANTIC ROCK	20	31	23	31	29	28
CRAB, HORSESHOE	3	17	17	19	12	15
CRAB, JONAH	67	69	74	67	64	57
DOGFISH, SMOOTH	42	32	39	33	31	30
DOGFISH, SPINY	54	57	48	35	38	29
FLOUNDER, SUMMER (FLUKE)	484	527	502	492	481	406
FLOUNDER, WINTER	120	110	115	100	88	79
MONKFISH	145	165	174	174	158	138
HERRING, ATLANTIC, SEA	32	34	30	27	25	23
LOBSTER, AMERICAN	149	154	149	136	130	129
MENHADEN	9	8	11	7	5	12
OTHER CRUSTACEAN	13	12	12	11	10	12
OYSTER, EASTERN	39	20	14	28	13	12
SCALLOP, SEA	36	56	54	57	49	38
SCUP	418	450	437	433	433	361
SEA BASS, BLACK	484	504	543	507	525	477
SHELLFISH OTHER	5	3	4	5	4	4
SKATE WINGS	127	140	142	139	134	104
SQUID, LONG FINNED (LOLIGO)	153	162	160	164	149	132
SQUID, SHORT FINNED (ILLEX)	6	12	21	27	29	18
STRIPED BASS	292	267	286	267	268	230
TAUTOG	226	231	250	242	250	203
WHELK	153	140	137	109	114	95

Table 3. Possession limit (pounds) modifications for common Rhode Island commercial fisheries January through September 8, 2021.

SPECIES	SUB-PERIOD STARTING POSSESSION LIMIT (LBS)	POSSESSION LIMIT MODIFICATIONS THROUGHOUT SUBPERIOD
Black Sea Bass	750/wk (1/1)	1,000/wk (2/14); 1,500/wk (2/28); 2,000/wk (3/14)
	100/day (5/1)	50/day (6/20); Closed (6/27)
	100/day (7/1)	50/day (7/18); Closed (8/1)
	50/day (9/15)	
Bluefish	1,000/bi-week (1/1)	
	6,000/week (5/1)	
	500/week (11/16)	
Scup (Gen. Cat.)	50,000/day (1/1)	
	10,000/wk (5/1)	20,000/wk (8/15)
Scup (FFT)	50,000/day (1/1)	
	Unlimited (5/1)	
Striped Bass (Gen. Cat.)	5 fish/vessel (5/20)	Closed (6/23)
	5 fish/vessel (7/1)	Closed (7/9)
Striped Bass (FFT)	Unlimited (4/1)	
Summer Flounder	100/day; 2,000/bi-week*(1/3)	3,000/bi-week (2/14); 4,000/bi-week (2/28); 4,500/bi-week (3/14)
	100/day (5/1)	150/day (7/18); 200/day (8/15) 300/day (8/15)**; 500/day (9/5)**
	100/day (9/16)	
Tautog	10 fish/vessel (4/1)	Closed (5/20)
	10 fish/day (8/1)	Closed (8/19)

*possession limits for vessels participating in Aggregate Landing Program

** only for vessels holding a Summer Flounder Exemption certificate

Table 4. Historical commercial license counts (2012 – 2021).

LICENSE TYPE	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
MULTI-PURPOSE LICENSE	853	829	816	804	802	789	771	751	744	739
<i>Gillnet Endorsement</i>	233	227	221	218	218	214	213	204	203	194
<i>Dockside Sale Endorsement</i>	251	241	236	236	245	242	239	237	244	252
<i>Midwater/Pair Trawl Endorsement</i>	131	132	133	137	139	145	145	144	151	157
<i>Purse Seine Endorsement</i>	139	134	134	129	136	140	144	145	156	166
PRINCIPAL EFFORT LICENSE	690	655	615	593	580	586	585	560	553	552
<i>Lobster Endorsement</i>	36	30	27	21	20	19	16	16	15	15
<i>Non-lobster Crustacean Endorsement</i>	33	35	36	33	33	35	36	32	32	39
<i>Quahaug Endorsement</i>	398	376	347	340	322	321	327	305	297	292
<i>Restricted Finfish Endorsement</i>	266	262	258	251	252	266	277	279	287	296
<i>Non-restricted Finfish Endorsement</i>	131	135	133	130	152	159	168	159	169	184
<i>Soft Shelled Clam Endorsement</i>	256	235	204	194	183	186	176	154	143	137
<i>Whelk Endorsement</i>	146	118	79	62	53	63	60	55	58	61
<i>Dockside Sale Endorsement</i>	13	13	12	11	13	15	14	11	13	21
<i>Midwater/Pair Trawl Endorsement</i>	9	8	9	7	10	9	13	13	12	15
<i>Purse Seine Endorsement</i>	8	7	6	5	9	9	13	13	13	15
<i>Other Shellfish Endorsement</i>	225	211	186	177	177	173	166	148	148	150
COMMERCIAL FISHING LICENSE	398	420	404	412	416	429	433	445	435	452
<i>Lobster Endorsement</i>	16	15	14	14	12	11	9	7	7	6
<i>Non-lobster Crustacean Endorsement</i>	114	100	101	95	95	104	104	110	101	104
<i>Quahog Endorsement</i>	158	165	181	189	197	217	215	227	236	251
<i>Restricted Finfish Endorsement</i>	0	0	0	0	0	0	0	0	0	0
<i>Non-restricted Finfish Endorsement</i>	252	256	240	243	248	253	270	213	255	271
<i>Soft Shelled Clam Endorsement</i>	174	163	155	148	139	129	124	125	114	115
<i>Whelk Endorsement</i>	109	92	75	65	58	56	53	50	53	51
<i>Dockside Sale Endorsement</i>	16	14	16	16	15	18	17	18	18	28
<i>Midwater/Pair Trawl Endorsement</i>	40	46	39	39	40	37	41	41	39	45
<i>Purse Seine Endorsement</i>	42	40	42	43	41	40	42	45	30	45
<i>Other Shellfish Endorsement</i>	171	160	149	152	142	129	145	158	143	148
OVER 65 SHELLFISH LICENSE	240	268	289	309	350	369	389	372	420	402
STUDENT SHELLFISH LICENSE	49	48	47	37	48	39	30	37	41	35

Table 5. Rhode Island commercial fishing license and lobster license/endorsement issuance data, 2014-2021 fishing years.

LICENSE TYPE	2014	2015	2016	2017	2018	2019	2020	2021
MULTI-PURPOSE LICENSE	816	804	802	789	771	751	744	739
MPL with Area 2 LTA	308	298	304	304	304	302	301	301
Dockside Sale Endorsement	236	236	245	242	239	237	251	252
PRINCIPAL EFFORT LICENSE	615	593	580	586	585	560	553	552
Lobster Endorsement with LTA	29	25	21	19	19	19	15	15
Non-Lobster Crustacean Endorsement	36	33	33	35	36	32	32	39
Dockside Sale Endorsement	12	11	13	15	14	11	13	21
COMMERCIAL FISHING LICENSE	404	412	416	429	433	445	398	452
Lobster Endorsement with LTA	4	4	4	4	4	3	3	2
Non-Lobster Crustacean Endorsement	101	95	95	104	104	110	101	104
Dockside Sale Endorsement	16	16	15	18	17	18	18	28

Table 6. Description of allocated traps, maximum traps fished, and the reduction of traps in 2021. Traps retired include those associated with the reduction program decrease and the conservation transfer tax.

AREA	# OF TRAPS ALLOCATED	# OF TRAPS TRANSFERRED	MAX # OF TRAPS FISHED	# OF TRAPS RETIRED DUE TO REDUCTIONS
Area 2	60,695	2,313	27,078	1,916
Area 3	27,406	1,410	27,904	2,748

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