PROGRESS REPORT

<u>State</u>: NEW HAMPSHIRE <u>Grant</u>: F-61-R-24/F21AF00591

Grant Title: NEW HAMPSHIRE'S MARINE FISHERIES INVESTIGATIONS

Project III: MULTI-SPECIES EVALUATION

Job 2: COASTAL HARVESTERS PROGRAM

Objective: To collect catch and effort information from coastal

harvesters targeting and catching recreationally important finfish species or species not currently being reported to the National Oceanic and Atmospheric Administration Fisheries Service directly from harvesters fishing strictly

in state waters.

Period Covered: January 1, 2021 - December 31, 2021

ABSTRACT

Between January 1, 2021 and December 31, 2021, the NH Fish and Game Department conducted one investigation to collect catch and effort information from coastal harvesters targeting and catching recreationally important finfish species from the state of New Hampshire's coast and estuarine waters. Individuals who obtain a Harvest Permit to take marine species in New Hampshire coastal and estuarine waters are required to complete and submit trip-level logbooks on a monthly basis detailing harvest and effort. The majority of those who obtain this permit are seeking bait for other recreational fisheries. The harvest of these baitfish is not captured or quantified by any other harvest and effort reporting programs.

The reporting compliance rate was approximately 78% in 2021, with 16 individuals out of 73 permittees not reporting. The total reported annual marine species harvest in New Hampshire's coastal and estuarine waters decreased from 331,714 lbs in 2020, to 64,792 lbs in 2021. American Eel Anguilla rostrata, Atlantic Menhaden Brevoortia tyrannus, and Killifish Fundulus spp. continue to be species consistently harvested as bait for recreational fisheries. In response to low river herring (Alewife Alosa pseudoharengus and Blueback Herring Alosa aestivalis) spawning returns and not

meeting the fishery-independent target outlined in NH's Atlantic States Marine Fisheries Commission River Herring Sustainable Fishing Plan the NH Fish and Game Department closed the fishery to all harvest of river herring beginning in 2021. Participation in the coastal harvester program decreased as a result of the river herring closure.

Harvesters used seven different gear types to capture six taxa of marine species from New Hampshire waters in 2021. Atlantic Menhaden represented the most sought after and harvested species of baitfish.

INTRODUCTION

In New Hampshire (NH), persons harvesting horseshoe crabs Limulus polyphemus by any method, American Eels Anguilla rostrata by any method other than angling, or marine finfish by seine, net, weir, pot, or trap from coastal and estuarine waters are required to obtain a Harvest Permit from the NH Fish and Game Department. A Harvest Permit is also required to take any species, except American lobster Homarus americanus and crabs, for commercial purposes from state waters, unless reported through another method (e.g., National Oceanic and Atmospheric Administration's (NOAA) Vessel Reporting Program). The permittees are required to complete monthly logbooks on their harvest and effort. Collection of this information fills a gap in the fishery-dependent data collection program. Most of these harvesters either harvest exclusively in state waters or retain the marine species they catch for personal use (e.g., food, bait, etc.); thus, the information is not captured by NOAA's Fisheries Service commercial reporting program. certain gear restrictions (i.e., no mobile gear in state waters) traditional commercial finfish operations in NH obtain this permit. majority of people obtaining the permit are individuals seeking bait for various fisheries such as the recreational Striped Bass Morone saxatilis fishery and NH's lobster fishery.

Many of the fish targeted and retained by these harvesters, such as river herring (Alewife Alosa pseudoharengus and Blueback Herring Alosa aestivalis), Atlantic Menhaden Brevoortia tyrannus, and American Eel, are forage for important recreationally harvested finfish species.

Information from the coastal harvester's mandatory logbooks provides annual harvest and effort information useful for improving the quality of stock assessments and fisheries management.

PROCEDURES

Mandatory trip-level logbooks are required to be submitted on a monthly basis for those months an individual holds a permit to harvest marine species within the coastal or estuarine waters of NH. The required elements to be reported are in accordance with the Atlantic Coastal Cooperative Statistics Program's standards which include date fished, trip number, species sought, quantity of species retained, disposition of the harvest, area fished, gear type, number and size of gear, effort (in hours), number of sets, and quantity of bycatch by species. If the individual used a boat or sold their catch, the following elements are also required: port, county and state harvest was landed, hours at sea, number of crew, dealer license number, and unload date. The reports are required to be submitted by the tenth day of the following month for those months the individual is permitted to harvest whether or not effort occurred. Permits for subsequent years are not issued to an individual until the previous years' reporting requirements have been met.

The harvest information is reported in either weight or quantity. All quantitative data are converted to weight using the conversions in Table 3.2-1. Harvest weight, effort, and CPUE data are compiled by species. Effort measurements for each gear are presented in Table 3.2-2. If the number of harvesters reporting a single species is less than three, harvest, effort, and location data are not published to protect the confidentiality of an individual's data.

RESULTS

Between January 1, 2021 and December 31, 2021, the NH Fish and Game Department conducted one investigation to collect catch and effort information from coastal harvesters targeting and catching recreationally important finfish species from the state of New Hampshire's coast and estuarine waters. Seventy-three individuals obtained harvest permits in 2021 (Table 3.2-3); the reporting compliance rate was approximately 78% with 16 non-reporters. Thirteen permittees reported harvesting 64,792 lbs of marine species in 2021, an 80% decrease from 331,714 lbs in 2020 (Table 3.2-4).

Seven different gear types were used to harvest six taxa from NH's waters (Table 3.2-5). Atlantic Menhaden were harvested with three different gear types; cast net, gill net, and seine. American Eels were harvested with two gear types, while the remainder of species were each harvested by one gear type. Minnow traps was the only gear used to harvest multiple species.

Atlantic Menhaden were the most sought after and harvested species in 2021 representing approximately 94% of NH's total harvested weight (Tables 3.2-

3 and 3.2-6). Five individuals reported harvesting 60,900 lbs of Atlantic Menhaden in 2021, a decrease from the 310,361 lbs harvested in 2020 (Tables 3.2-3 and 3.2-4). Targeted harvest of Atlantic Menhaden occurred in state waters between June and July (Table 3.2-6). Seventy percent (42,600 lbs) of Atlantic Menhaden were harvested in July (Table 3.2-6) with 99% (42,100 lbs) of the July harvest being from the Seabrook coast (Tables 3.2-6 and 3.2-7).

Due to closure of the in-state fishery for river herring in 2021, no river herring were harvested at any locations (Tables 3.2-3 and 3.2-8).

Killifish Fundulus spp. were harvested by three individuals using minnow traps in NH's estuarine and coastal waters (Tables 3.2-3 and 3.2-5). Killifish annual harvest has been increasing in recent years with the second highest catch of 34 lbs in 2021 (Table 3.2-4). Minnow traps had a total CPUE of 1.97 Killifish per hour (Table 3.2-9).

Various species of finfish were targeted and harvested in 2021 including American Eel, Atlantic Menhaden, and Killifish. A complete summary of effort and CPUE by gear, month, and area for selected marine species is presented in Table 3.2-10.

DISCUSSION

Mandatory reporting of harvest activities on various marine species in NH coastal and estuarine waters closes a reporting gap between harvesting in federal waters, which is reported to NOAA Fisheries Service, and state waters. Species-specific harvest and effort data from this program are utilized in fisheries management for some species as well as address bait fish or requirements for various Atlantic States Marine Fisheries Commission's fishery management plans. Some of the harvested finfish species are not only important as a forage base for recreationally important fish, but also used widely as bait in recreational fisheries (i.e., Striped Bass, Bluefish Pomatomus saltatrix, and American lobster).

The anadromous river herring is a prime example of this; they are an important forage fish in both freshwater as young-of-the-year and the marine environment as juveniles and adults. River herring are used as bait by both recreational anglers and the lobster fishery, therefore have been one of the most sought after baitfish of permittees in NH waters over the last ten years (Table 3.2-4). However, in recent years New Hampshire has experienced a decline in river herring spawning returns (see F-61-R-PI-1) and has seen relatively high harvest (Table 3.2-4). Due to NH not meeting its fishery-independent target outlined in NH's Atlantic States Marine Fisheries Commission River Herring Sustainable Fishing Plan the NH Fish and Game

Department closed the fishery to all harvest of river herring beginning in 2021. The decrease in coastal harvester permits issued in 2021 (Table 3.2-3) was largely a reflection of the closure.

With the drastic decline in the Atlantic Herring Clupea harengus population, restrictive commercial quotas, and much lower landings, bait needs have shifted to Atlantic Menhaden when abundant in state waters. This species accounted for most of the harvest in 2021 with a total harvest of 60,900 lbs (Table 3.2-4). Five individuals reported fishing effort for Atlantic Menhaden in 2021 (Table 3.2-3), a notable decrease from the previous three years. The overall increase in harvest in recent years is largely from individuals seeking Atlantic Menhaden for use as bait in the lobster fishery.

In summary, species harvested in NH's coastal waters for use as bait in recreational fisheries continue to be an important resource in state waters. This demand for bait has maintained the American Eel, Atlantic Menhaden, and Killifish fisheries. Thirteen of the 73 Harvest permittees reported harvesting 64,792 lbs of marine species in 2021. Seven different gear types were used to harvest six different taxa. River herring are an important bait species and represent one of the most sought after and harvested species by permittees in past years, but due to a closure of the fishery no river herring were allowed to be harvested in 2021. Atlantic Menhaden have been abundant in state waters in recent years and harvest has increased considerably. Species harvested for use as bait in New Hampshire's recreational fisheries continue to be an important commodity in state waters.

Table 3.2-1. Conversion factors used to adjust harvest reported in numbers of marine species by persons with Harvest Permits for New Hampshire coastal and estuarine waters from 2021.

| Species | Conversions |
|-------------------|---------------------------|
| American Eel | 4 fish = 1 lb |
| Atlantic Menhaden | 1 fish = 1 lb |
| Horseshoe crab | 1 male = 0.56 lb |
| noisesile clab | 1 female = 1.77 lb |
| Killifish | 1 liquid quart = 1.125 lb |
| KIIIIIISII | 1 liquid quart = 275 fish |
| River herring | 1 fish = 0.5 lb |

Table 3.2-2. Effort measurements for each gear type reported by persons with Harvest Permits for New Hampshire coastal and estuarine waters from 2021.

| Gear | Effort |
|----------------|-------------------------------|
| Cast net | Hours fished |
| Eel pot | Trap haul set over days |
| Gill net | (Net area/100) * Hours fished |
| Hand | Hours fished |
| Minnow trap | Trap haul set over days |
| Scallop dredge | Hours fished |
| Seine | (Net area/100) * Hours fished |

F-61-RIII-2_21_AR

Table 3.2-3. Number of Harvest Permittees that reported fishing effort for each marine species by year and total number of Harvest Permits that were issued for New Hampshire coastal and estuarine waters from 2012-2021.

| | | | | Nui | mber of | permitte | ees | | | |
|------------------------------|------|------|------|------|---------|----------|------|------|------|------|
| Species | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 |
| American Eel | 7 | 8 | 6 | <3 | 8 | 3 | 4 | <3 | 3 | <3 |
| American Plaice | <3 | _ | - | _ | _ | _ | - | _ | - | _ |
| Atlantic Cod | <3 | _ | - | _ | _ | _ | - | _ | _ | - |
| Atlantic Herring | ı | _ | _ | _ | _ | _ | <3 | _ | _ | _ |
| Atlantic Mackerel | ı | _ | - | _ | <3 | <3 | - | <3 | _ | - |
| Atlantic Menhaden | <3 | _ | _ | _ | _ | 3 | 19 | 19 | 19 | 5 |
| Atlantic sea scallop | - | _ | _ | _ | _ | <3 | <3 | <3 | <3 | <3 |
| Atlantic surf clam | - | _ | _ | _ | _ | _ | _ | _ | <3 | _ |
| Atlantic Tomcod | - | _ | _ | _ | _ | _ | _ | _ | _ | <3 |
| Bluefish | <3 | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Cusk | <3 | _ | _ | _ | _ | _ | _ | _ | - | _ |
| Goosefish | <3 | _ | _ | _ | _ | _ | _ | _ | - | _ |
| Haddock | <3 | _ | _ | _ | _ | _ | _ | _ | - | _ |
| Horseshoe crab | - | _ | 3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 |
| Killifish | 3 | 4 | <3 | 3 | 4 | 3 | 4 | 4 | 4 | 3 |
| Pollock | <3 | _ | _ | _ | _ | _ | _ | _ | - | - |
| Rainbow Smelt | - | _ | _ | <3 | <3 | _ | _ | _ | - | _ |
| River herring | 20 | 20 | 29 | 21 | 23 | 14 | 16 | 21 | 17 | _ |
| Silver Hake | <3 | _ | _ | _ | _ | _ | _ | _ | - | - |
| Spiny Dogfish | <3 | _ | _ | _ | _ | _ | _ | _ | - | _ |
| Stickleback Spp. | - | _ | _ | _ | <3 | <3 | <3 | _ | - | _ |
| White Hake | <3 | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Winter Flounder | <3 | _ | _ | _ | - | _ | _ | - | _ | _ |
| Witch Flounder | <3 | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| # Permits issued | 108 | 102 | 83 | 74 | 76 | 70 | 95 | 105 | 99 | 73 |
| # Permittees reported effort | 35 | 31 | 34 | 28 | 36 | 24 | 40 | 45 | 43 | 13 |

F-61-RIII-2_21_AR

Table 3.2-4. Harvest Permittees reported total weight (lb) of harvested marine species by year for New Hampshire coastal and estuarine waters from 2012–2021.

| | | | | | Weight | of harve | st | | | |
|-----------------------|--------|-------|----------------|-------|--------|----------|---------|---------|---------|----------------|
| Species | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 |
| American Eel | 167 | 106 | 35 | a | 44 | 19 | 19 | a | 12 | a |
| American Plaice | a | - | _ | _ | - | _ | - | - | _ | _ |
| Atlantic Cod | a | - | _ | _ | - | _ | _ | - | _ | _ |
| Atlantic Herring | - | - | _ | _ | _ | - | a | _ | _ | _ |
| Atlantic Mackerel | - | _ | _ | _ | а | a | _ | а | _ | _ |
| Atlantic Menhaden | a | - | _ | _ | - | 8,364 | 79,401 | 262,705 | 310,361 | 60,900 |
| Atlantic sea scallop | - | _ | _ | _ | - | a | a | a | a | a |
| Atlantic surf clam | - | - | _ | _ | - | _ | - | - | a | - |
| Atlantic Tomcod | - | _ | - | _ | - | - | - | - | _ | a |
| Bluefish | a | _ | _ | _ | _ | - | _ | _ | _ | _ |
| Cusk | a | - | _ | _ | - | _ | _ | - | _ | - |
| Goosefish | a | - | _ | _ | _ | - | - | - | _ | _ |
| Haddock | a | - | _ | _ | _ | - | - | - | _ | _ |
| Horseshoe crab | - | - | 91 | a | a | a | a | a | a | a |
| Killifish | 4 | 12 | a | 12 | 11 | 6 | 12 | 16 | 79 | 34 |
| Pollock | a | _ | _ | _ | _ | - | _ | _ | _ | _ |
| Rainbow Smelt | - | _ | _ | _ | a | _ | _ | - | _ | - |
| River herring | 2,681 | 4,481 | 5 , 737 | 7,566 | 4,354 | 3,916 | 4,398 | 11,326 | 7,964 | _ |
| Silver Hake | a | _ | _ | _ | _ | - | _ | _ | _ | _ |
| Spiny Dogfish | a | - | _ | _ | - | _ | _ | - | _ | - |
| Stickleback spp.b | - | - | _ | _ | a | a | a | - | _ | _ |
| White Hake | a | - | _ | _ | _ | - | - | - | _ | _ |
| Winter Flounder | a | - | _ | - | _ | - | - | _ | _ | - |
| Witch Flounder | a | - | _ | _ | _ | _ | - | - | _ | - |
| Confidential harvestd | 25,410 | - | a | 138 | 102 | 1,325 | 1,479 | 805 | 13,298 | 3 , 858 |
| Yearly total | 28,262 | 4,599 | 5 , 876 | 7,717 | 4,511° | 13,630° | 85,309° | 274,852 | 331,714 | 64,792 |

^a Weight of harvest not shown due to confidentiality restrictions of the data

^b Catch reported in numbers, no conversion factor available for the appropriate size fish.

 $^{^{\}mbox{\scriptsize c}}$ Yearly total reflects missing lbs from species with no conversion factors.

 $^{^{\}rm d}$ Confidential harvest is the combined weight of all species of fish that were harvested by less than three harvesters for that year.

Table 3.2-5. Percent weight composition, by gear type, for harvested marine species by Harvest Permittees for New Hampshire coastal and estuarine waters in 2021.

| | | Perce | ent weigl | nt compo | sition b | y gear | |
|----------------------|-------------|------------|-------------|----------|----------------|-------------------|-------|
| Species | Cast net | Eel pot | Gill net | Hand | Minnow trap | Scallop dredge | Seine |
| American Eel | | а | | | а | | |
| Atlantic Menhaden | a | | a | | | | a |
| Atlantic sea scallop | | | | | | 100% | |
| Atlantic Tomcod | | | | | 100% | | |
| Horseshoe crab | | | | 100% | | | |
| Killifish | | | | | 100% | | |

a Percent weight composition not shown due to confidentiality restrictions of the data.

Table 3.2-6. Harvest Permittees reported harvested weight (lb) of marine species and percentage of annual harvest, by species and month, for New Hampshire coastal and estuarine waters in 2021.

| | | | M | eight of | harvest | | | | | | |
|-------------------|-----|-----------------------------|---|----------|---------|--------|--------|--|--|--|--|
| Species | Jan | Jan Feb Mar Apr May Jun Jul | | | | | | | | | |
| Atlantic Menhaden | | | | | | 18,300 | 42,600 | | | | |
| Killifish | a | a | a | а | a | a | a | | | | |

| Species | Aug | Sep | Oct | Nov | Dec | Annual harvest (lb) | % of annual harvest |
|-------------------|-----|-----|-----|-----|-----|---------------------------|---------------------------|
| Atlantic Menhaden | | | | | | 60,900 | 94% |
| Killifish | а | а | а | а | а | 34 | <1% |

a Weight of harvest not shown due to confidentiality restrictions of the data.

Table 3.2-7. Reported harvested weight (lb) of select marine species by Harvest Permittees for New Hampshire coastal and estuarine waters, by month and area in 2021.

| | | Ĭ |
|-----------------|----------|-----------|
| | Atlantic | |
| Month/area | Menhaden | Killifish |
| January | | |
| Hampton Harbor | | a |
| Squamscott R. | | a |
| February | | |
| Hampton Harbor | | a |
| March | | |
| Squamscott R. | | a |
| April | | |
| Squamscott R. | | a |
| May | | |
| Squamscott R. | | a |
| June | | |
| Hampton Coast | a | |
| Seabrook Coast | a | |
| Squamscott R. | | a |
| Tide Mill Creek | | a |
| July | | |
| Hampton Coast | 500 | |
| Seabrook Coast | 42,100 | |
| Tide Mill Creek | | a |
| August | | |
| Tide Mill Creek | | a |
| September | | |
| Tide Mill Creek | | a |
| October | | |
| Great Bay | | a |
| Tide Mill Creek | | a |
| November | | |
| Tide Mill Creek | | a |
| December | | |
| Great Bay | | a |
| Tide Mill Creek | | a |

^a Weight of harvest not shown due to confidentiality restrictions of the data.

Table 3.2-8. Total reported harvest of river herring by Harvest Permittees, and percentage of total river herring harvested at all locations in New Hampshire from 2012-2021. (No harvest in 2021 due to fishery closure.)

| | Bella | my R. | Coche | co R. | Great | t Bay | Lampr | ey R. |
|------|-------|-------|-----------|----------|-----------|-----------|-------|-------|
| Year | lb | 0/0 | lb | % | lb | % | lb | ଚ |
| 2012 | a | a | a | a | a | a | a | a |
| 2013 | 253 | 6% | а | a | | | a | a |
| 2014 | а | а | а | а | a | a | a | a |
| 2015 | a | а | | | | | a | a |
| 2016 | a | а | | | | | a | a |
| 2017 | a | а | | | | | a | a |
| 2018 | a | a | | | | | a | a |
| 2019 | a | a | | | | | a | a |
| 2020 | a | a | | | | | a | a |
| 2021 | | Ri | ver herri | ng fishe | ry was cl | osed in 2 | 021 | |

| | Littl | e Bay | Oyste | er R. | Salmon E | Falls R. | Squamso | cott R. | Winnic | cut R. | Total harvest |
|------|-------|-------|-------|----------|-----------|------------|----------------|---------|--------|--------|------------------|
| Year | lb | ્ર | lb | િ | lb | % | lb | 0/0 | lb | ્ર | (lb) |
| 2012 | | | | | a | a | 1,647 | 61% | a | a | 2,681 |
| 2013 | | | | | | | 3,942 | 88% | | | 4,481 |
| 2014 | a | a | | | | | 4,380 | 76% | | | 5 , 737 |
| 2015 | | | | | | | 6,446 | 85% | | | 7 , 566 |
| 2016 | | | | | | | 4,206 | 97% | a | a | 4,354 |
| 2017 | | | | | | | 2,529 | 65% | | | 3,916 |
| 2018 | | | | | | | 2,439 | 55% | | | 4,398 |
| 2019 | | | | | | | 8 , 756 | 77% | | | 11,326 |
| 2020 | | | | | | | 5 , 118 | 64% | | | 7,964 |
| 2021 | | · | Ri | ver herr | ing fishe | ry was clo | osed in 20 |)21 | | · | 0 |

Table 3.2-9. Reported effort and CPUE of marine species by Harvest Permittees for New Hampshire coastal and estuarine waters, by gear type, for each month in 2021.

| | | | | Effort and CPUE | | | | | | | | | | | | |
|-------------------|-------------|-----|--------|-----------------|--------|------|--------|------|--------|------|--------|------|--|--|--|--|
| | Jā | Jan | | Feb | | Mar | | Apr | | ay | Ju | ın | | | | |
| Species | Effort CPUE | | Effort | CPUE | Effort | CPUE | Effort | CPUE | Effort | CPUE | Effort | CPUE | | | | |
| Atlantic Menhaden | | | _ | | _ | | _ | _ | | _ | _ | | | | | |
| Cast net | | - | | | · | | | | | | | | | | | |
| Gill net | | | | | | | | | | | a | a | | | | |
| Seine | | | | | | | | | | | a | a | | | | |
| Killifish | | | | | | | _ | | | | | | | | | |
| Minnow trap | a | a | a | a | a | a | a | a | a | a | a | a | | | | |

| | | Effort and CPUE | | | | | | | | | | Total by | species | |
|-------------------|--------|-----------------|--------|------|--------|------|--------|------|--------|------|--------|----------|---------|------|
| | Jι | 11 | Αυ | ıg | Se | pt | 00 | t | No | V | De | ec . | & ge | ear |
| Species | Effort | CPUE | Effort | CPUE | Effort | CPUE | Effort | CPUE | Effort | CPUE | Effort | CPUE | Effort | CPUE |
| Atlantic Menhaden | | _ | | | | | | | _ | _ | _ | | | |
| Cast net | a | a | | - | | | | | | | | | a | a |
| Gill net | a | a | | | | | | | | | | | a | a |
| Seine | a | a | | | | | | | | | | | a | a |
| Killifish | | | | | | | | | | | | | | |
| Minnow trap | a | a | a | a | a | a | a | a | a | a | a | a | 348.00 | 1.97 |

^a Effort and CPUE for each gear type not shown due to confidentiality restrictions of the data.

Table 3.2-10. Reported fishing effort and CPUE of marine species by Harvest Permittees for New Hampshire coastal and estuarine waters by month, area, and gear type in 2021.

| Month/area/gear | Atlantic Menhaden | | Killifish | |
|-----------------|---|---------------|---|------|
| | Effort | CPUE | Effort | CPUE |
| January | = | = | - | |
| Hampton Harbor | | | | |
| Minnow trap | | | a | a |
| Squamscott R. | | | | |
| Minnow trap | | | a | a |
| February | | = | | |
| Hampton Harbor | | | | |
| Minnow trap | | | a | a |
| March | = | = | | |
| Squamscott R. | | | | |
| Minnow trap | | | a | a |
| April | - | | | |
| Squamscott R. | | | | |
| Minnow trap | | | a | a |
| May | * | | <u></u> | |
| Squamscott R. | | | | |
| Minnow trap | | | a | a |
| June | | <u> </u> | | |
| Hampton Coast | | | | |
| Gill net | a | a | | |
| Seine | a | a | | |
| Seabrook Coast | | | | |
| Gill net | a | a | | |
| Squamscott R. | | | | |
| Minnow trap | | | a | a |
| Tide Mill Creek | | | | |
| Minnow trap | | | a | a |
| July | ======================================= | = | ======================================= | |
| Hampton Coast | | | | |
| Cast net | a | а | | |
| Gill net | a | a | | |
| Seine | ā | a | | |
| Seabrook Coast | | | | |
| Cast net | a | a | | |
| Gill net | a | a | | |
| Seine | a | a | | |
| Tide Mill Creek | | | | |
| Minnow trap | | | a | a |
| August | | | | |
| Tide Mill Creek | | | | |
| Minnow trap | | | a | a |
| September | | | | |
| Tide Mill Creek | | | | |
| Minnow trap | | | a | a |
| October | | - | | |
| Great Bay | | | | |
| Minnow trap | | | a | a |
| Tide Mill Creek | | | | |
| Minnow trap | | | a | a |

Table 3.2-10. (cont.)

| November | = | | | | | |
|-----------------|---|--|---|---|--|--|
| Tide Mill Creek | | | | | | |
| Minnow trap | | | a | a | | |
| December | | | | | | |
| Tide Mill Creek | | | | | | |
| Minnow trap | | | a | a | | |

^a Effort and CPUE for each gear type is not shown due to confidentiality restriction of the data.