



# New Hampshire Fish and Game Department

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April 17, 2024

Dear License Holder,

Since the fall of 2000, the states of New Hampshire and Maine have conducted an Inshore Bottom Trawl Survey in order to collect abundance and biological information on groundfish, lobsters, and other marine organisms from the shore out to the 12-nautical mile limit. We would like to ask for your cooperation with this year's spring survey.

On April 29<sup>th</sup> and April 30<sup>th</sup> the vessel is scheduled to survey off the coast of New Hampshire. Accompanying this letter are maps of the tow locations for the spring survey along with the Loran C coordinates (using the W and X chains) of the stations. An interactive chart will be available and can be found at the following website. Using a cell phone and clicking on the location button shows where you are in relation to the scheduled tows.

<https://www.maine.gov/dmr/science/fisheries-monitoring-assessment/maine-new-hampshire-inshore-trawl-survey/current>

In order to avoid any gear conflicts, we are asking for your cooperation by *temporarily* moving any fixed gear (lobster traps, gill nets, etc.) from an area roughly 1/8 mile on either side of the 1-nautical mile tow area before the above date(s). It is extremely important to the integrity of this long-term survey that we not have to move the trawl sites to avoid fixed gear.

In the event that adverse weather conditions cause delays or a postponement of the scheduled survey dates, there are several ways for you to get updates on the survey schedule. The best source of information is directly from the boat crew. The vessel will be monitoring channels 16 and 13 and be ready to move to a local working channel if you need to contact them the day of the survey. The survey vessel is the F/V Robert Michael out of Portland, ME, under Captain Rob Tetrault II. You can also contact the vessel via cell phone at 207-350-56561 (Chief Scientist Robyn Linner) or contact Lauren Staples at the Region 3 office in Durham; [lauren.staples@wildlife.nh.gov](mailto:lauren.staples@wildlife.nh.gov) or 603-868-1095.

Finally, I want to thank you all for the outstanding cooperation we have received over the past 24 years from the NH lobster fishing industry in moving gear out of the tow areas. The Department sees the inshore trawl survey as an opportunity to provide credible data to state managers, the New England Fisheries Management Council, the Atlantic States Marine Fisheries Commission, and National Oceanic and Atmospheric Administration (NOAA) for areas where there is currently minimal information on a variety of marine species that fisheries are reliant upon. Enclosed is a brief report that summarizes highlights and results from past surveys. We also have a more detailed report comparing the results of the survey through the fall of 2023. If you would like a copy of this report or have any questions about the survey in general, please contact Lauren Staples at our Durham Regional Office.

Thank you again for your cooperation.

Sincerely,



Cheri Patterson  
Chief Marine Fisheries

Attachment

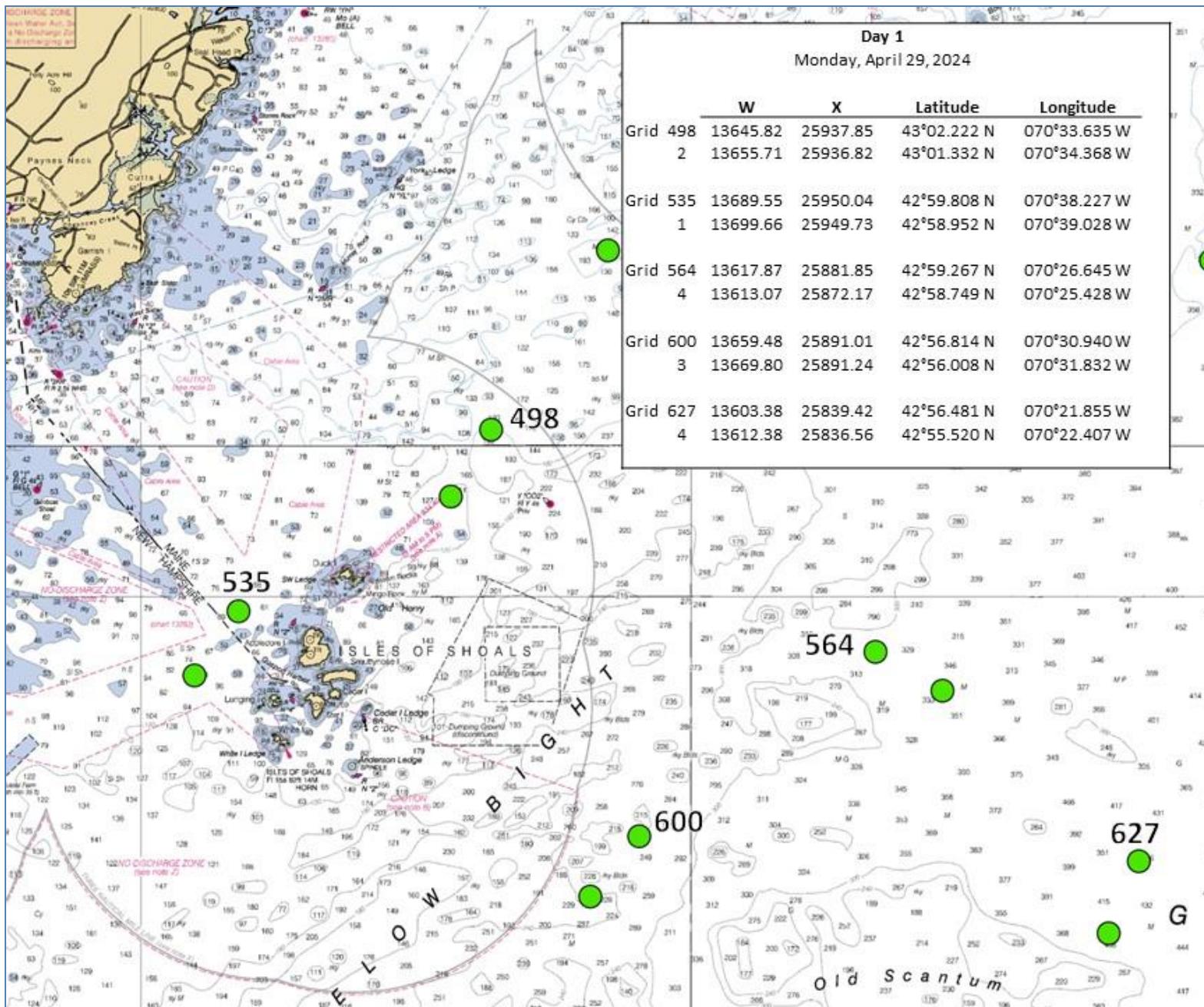
|     |  |   |  |                                       |
|-----|--|---|--|---------------------------------------|
| Cc: | Cheri Patterson<br>Emerald Wright<br>Robert Atwood | Joshua Carloni<br>Matt Lee<br>Cole Brakhage | Conor O'Donnell<br>Renée Zobel<br>Wendy Main | Lauren Staples<br>District 6 Officers |
|-----|--|---|--|---------------------------------------|

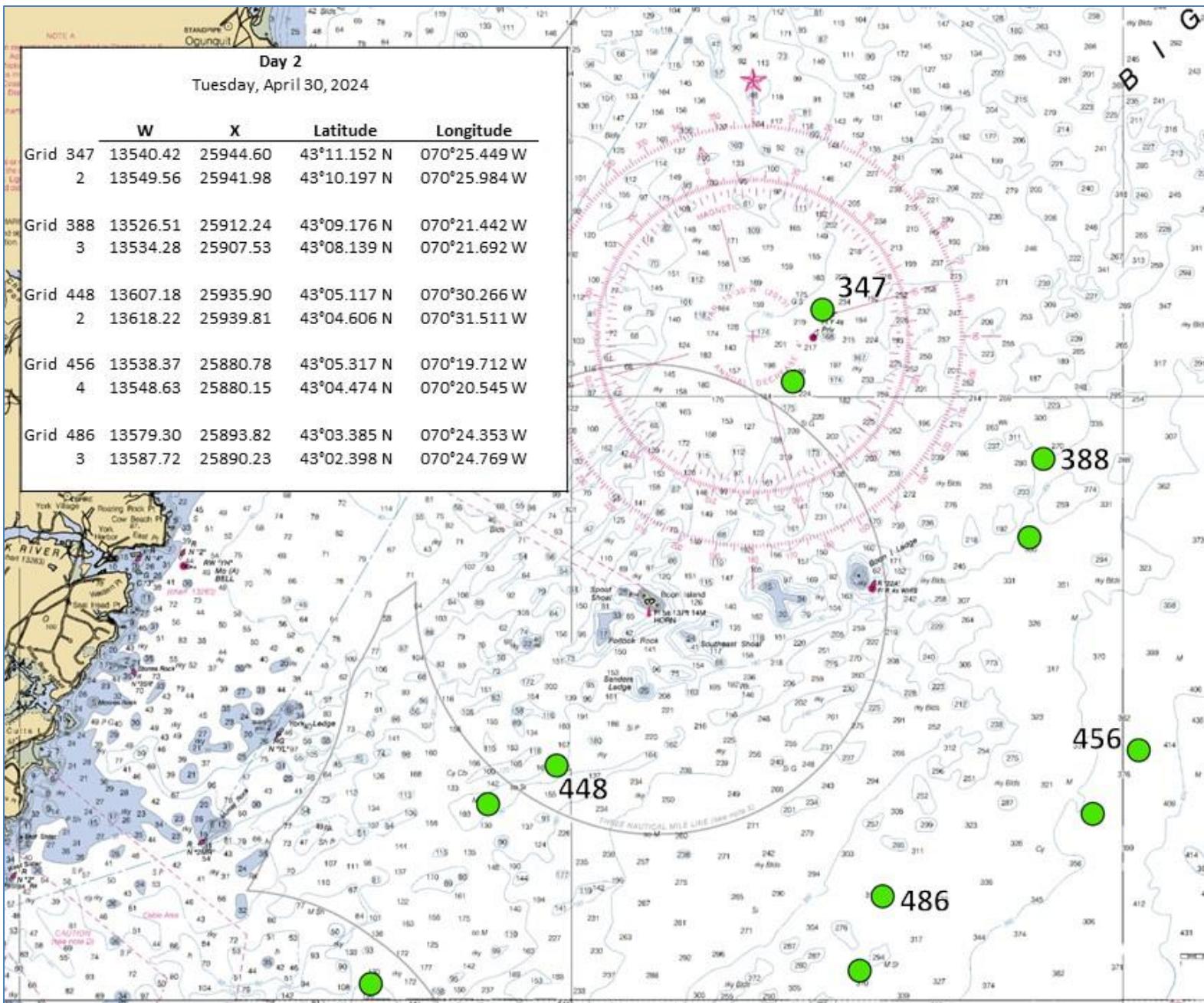
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**Table 1. Mean weight and number per tow of marine species captured in the ME/NH Inshore Trawl Survey in Region 1 (NH and southern ME), Spring 2019-2023.**

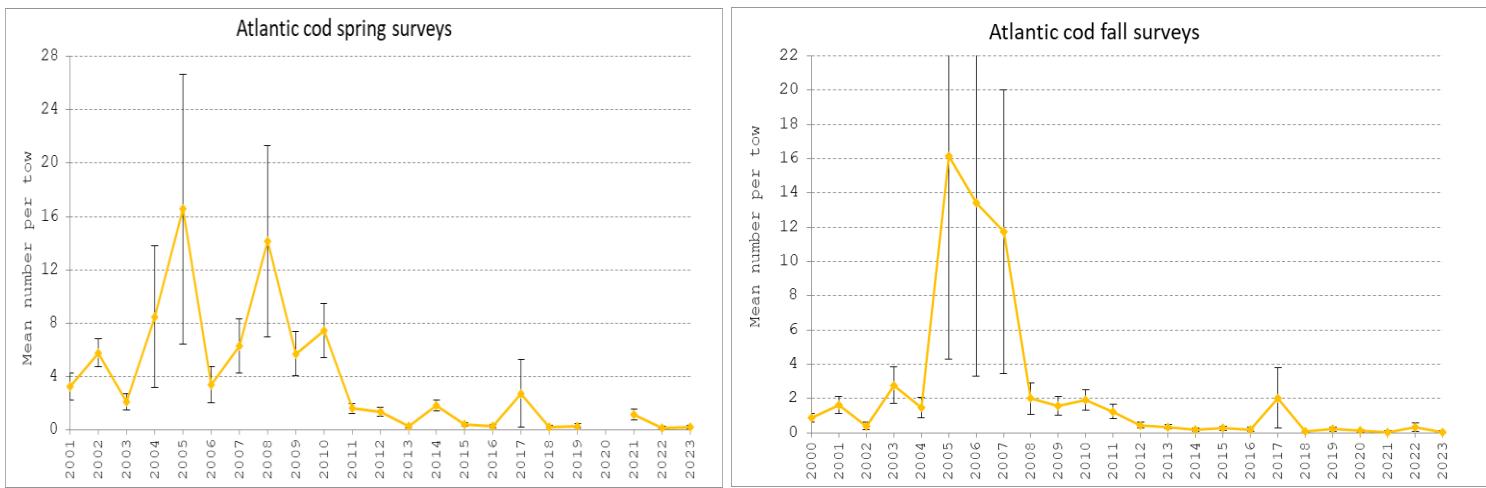
| Species              | Region 1 (NH to Cape Elizabeth) - Spring 2019-2023 |               |               |               |               |                |                |             |                     |         |
|----------------------|--|---------------|---------------|---------------|---------------|----------------|----------------|-------------|---------------------|---------|
|                      | Stratum 1  |               | Stratum 2     |               | Stratum 3     |                | Stratum 4      |             | Region 1 all strata |         |
|                      | 5-20 fathoms                                       | 21-35 fathoms | 21-35 fathoms | 36-55 fathoms | 36-55 fathoms | 56-80+ fathoms | 56-80+ fathoms |             |                     |         |
| Species              | kg/tow   | #/tow         | kg/tow        | #/tow         | kg/tow        | #/tow          | kg/tow         | #/tow       | kg/tow              | #/tow   |
| Acadian Redfish      | 0.159  | 4.423         | 0.355         | 13.597        | 0.301         | 9.376          | 9.948          | 154.503     | 2.691               | 45.475  |
| Alewife              | 3.593  | 204.736       | 2.910         | 143.251       | 9.122         | 341.68         | 5.584          | 166.463     | 5.302               | 214.032 |
| Alligatorfish        |  |               | 0.006         | 2.251         | 0.001         | 0.424          |                |             | 0.002               | 0.669   |
| American lobster     | 16.457   | 66.538        | 42.437        | 160.329       | 24.953        | 94.144         | 5.734          | 13.145      | 22.395              | 83.539  |
| American Plaice      | 0.012  | 0.248         | 0.899         | 11.290        | 5.597         | 53.174         | 8.899          | 39.962      | 3.852               | 26.169  |
| American Sand Lance  | 0.010  | 0.625         |               |               |               |                |                |             | 0.002               | 0.156   |
| American Shad        | 0.138  | 2.489         | 0.409         | 10.913        | 0.388         | 6.385          | 0.086          | 1.292       | 0.255               | 5.270   |
| Atlantic Cod         | 0.160  | 0.681         | 0.277         | 0.984         | 0.071         | 0.044          | 0.384          | 0.167       | 0.223               | 0.469   |
| Atlantic Halibut     | 0.080  | 0.311         |               |               | 0.056         | 0.083          | 0.348          | 0.042       | 0.121               | 0.109   |
| Atlantic Herring     | 24.711   | 570.949       | 9.028         | 328.178       | 23.703        | 517.928        | 1.376          | 10.718      | 14.704              | 356.943 |
| Atlantic Mackerel    | 0.377  | 6.229         | 0.355         | 4.201         | 0.109         | 0.888          | 0.003          | 0.083       | 0.211               | 2.850   |
| Atlantic Menhaden    |  |               |               |               |               |                | 0.014          | 0.050       | 0.003               | 0.013   |
| Atlantic rock crab   | 0.034  | 1.296         | 0.014         | 0.052         | 0.009         | 0.063          |                |             | 0.014               | 0.353   |
| Atlantic Silverside  |  |               |               |               |               |                | 0.001          | 0.050       | 0.000               | 0.013   |
| Atlantic Wolffish    |  |               |               |               |               |                | 0.411          | 0.050       | 0.103               | 0.013   |
| Black Sea Bass       |  |               |               |               | 0.008         | 0.106          |                |             | 0.002               | 0.027   |
| Blood star           | 0.083  | 0.063         | 0.001         | 0.656         |               |                |                |             | 0.021               | 0.180   |
| Blueback Herring     | 3.006  | 183.286       | 3.509         | 173.967       | 7.116         | 307.314        | 1.148          | 32.562      | 3.695               | 174.282 |
| Blue mussel          | 0.011  | 0.167         | 0.003         | 0.053         | 0.000         | 0.042          |                |             | 0.004               | 0.065   |
| Bobtail squid        |  |               |               |               |               |                | 0.003          | 0.125       | 0.001               | 0.031   |
| Brittle/Basket stars |  |               | 0.009         | 0.046         |               |                |                |             | 0.002               | 0.012   |
| Buckler Dory         |  |               |               |               | 0.001         | 0.042          |                |             | 0.000               | 0.010   |
| Butterfish           | 0.375  | 15.454        | 0.754         | 16.986        | 0.651         | 8.083          | 0.004          | 0.0917      | 0.446               | 10.154  |
| Comb jelly           | 0.694  | 9.271         | 0.421         | 8.143         | 0.073         | 3.860          | 0.004          | 0.796       | 0.298               | 5.517   |
| Common star          | 0.000  | 0.063         |               |               |               |                |                |             | 0.000               | 0.016   |
| Crangon shrimp       | 0.003  | 1.797         | 0.000         | 1.961         | 0.001         | 0.208          | 0.000          | 0.300       | 0.001               | 1.066   |
| Cunner               | 0.546  | 9.093         | 0.515         | 7.282         | 0.011         | 0.167          | 0.003          | 0.050       | 0.269               | 4.148   |
| Cusk                 |  |               |               |               |               |                | 0.092          | 0.050       | 0.023               | 0.013   |
| Daubed Shanny        |  |               | 0.001         | 0.050         |               |                |                |             | 0.000               | 0.013   |
| Dichelo shrimp       | 0.003  | 2.531         | 0.137         | 89.767        | 1.318         | 595.464        | 0.845          | 412.393     | 0.576               | 275.039 |
| Fourbeard Rockling   |  |               | 0.009         | 0.111         | 0.002         | 0.063          | 0.067          | 0.604       | 0.020               | 0.194   |
| Fourspot Flounder    | 0.015  | 0.083         | 0.081         | 0.516         | 0.146         | 1.301          | 0.053          | 0.633       | 0.074               | 0.633   |
| Gulf Stream Flounder |  |               |               |               | 0.001         | 0.040          |                |             | 0.000               | 0.010   |
| Haddock              | 0.001  | 0.250         | 0.074         | 1.177         | 1.110         | 4.824          | 23.406         | 34.94907407 | 6.148               | 10.300  |
| Jonah crab           | 0.040  | 0.430         | 0.127         | 0.748         | 0.066         | 0.231          | 0.222          | 0.975       | 0.114               | 0.596   |
| Little Skate         | 0.093  | 0.125         | 0.082         | 0.125         | 0.227         | 0.333          | 0.041          | 0.042       | 0.111               | 0.156   |
| Longfin squid        | 0.099  | 3.519         | 0.120         | 3.684         | 0.017         | 1.082          |                |             | 0.059               | 2.071   |
| Longhorn Sculpin     | 2.039  | 13.115        | 7.251         | 62.069        | 1.659         | 12.944         | 0.239          | 1.296       | 2.797               | 22.356  |
| Lumpfish             | 0.011  | 0.052         | 0.118         | 0.206         | 0.498         | 0.952          | 0.496          | 0.850       | 0.281               | 0.515   |
| Monkfish             | 0.017  | 0.385         | 0.338         | 1.341         | 0.294         | 1.100          | 1.651          | 1.688       | 0.575               | 1.128   |
| Montagui shrimp      | 0.000  | 0.156         |               |               | 0.001         | 0.443          | 0.039          | 16.625      | 0.010               | 4.306   |
| Moon jelly           | 0.004  | 0.000         |               |               |               |                |                |             | 0.001               | 0.000   |
| Moon snail           | 0.005  | 0.042         |               |               |               |                |                |             | 0.001               | 0.010   |
| Mysidacea            |  |               |               |               |               |                | 0.000          | 0.100       | 0.000               | 0.025   |
| Northern Searobin    | 0.003  | 0.063         |               |               |               |                |                |             | 0.001               | 0.016   |
| Northern shrimp      |  |               |               |               | 0.728         | 85.107         | 4.273          | 543.126     | 1.250               | 157.058 |
| Ocean Pout           | 0.023  | 0.115         | 0.267         | 3.565         | 0.164         | 1.377          | 0.135          | 0.730       | 0.147               | 1.447   |
| Pollock              |  |               | 0.018         | 0.198         | 0.050         | 0.102          | 0.399          | 0.804       | 0.116               | 0.276   |
| Radiated Shanny      |  |               | 0.000         | 0.046         |               |                |                |             | 0.000               | 0.012   |
| Rainbow Smelt        | 0.022  | 3.396         |               |               |               |                |                |             | 0.006               | 0.849   |
| Rat-tail cucumber    |  |               | 0.000         | 0.050         |               |                |                |             | 0.000               | 0.013   |
| Red crab             |  |               |               |               |               |                | 0.006          | 0.042       | 0.001               | 0.010   |
| Red cushion star     |  |               | 0.007         | 0.105         |               |                |                |             | 0.002               | 0.026   |
| Red Hake             | 0.148  | 5.815         | 0.299         | 7.623         | 3.170         | 24.531         | 9.086          | 57.168      | 3.176               | 23.784  |
| Red jelly            | 0.020  | 0.167         |               |               |               |                |                |             | 0.005               | 0.042   |

| Species             | Region 1 (NH to Cape Elizabeth) - Spring 2019-2023 |         |               |         |               |         |                |          |                     |         |
|---------------------|--|---------|---------------|---------|---------------|---------|----------------|----------|---------------------|---------|
|                     | Stratum 1  |         | Stratum 2     |         | Stratum 3     |         | Stratum 4      |          | Region 1 all strata |         |
|                     | 5-20 fathoms                                       | #/tow   | 21-35 fathoms | #/tow   | 36-55 fathoms | #/tow   | 56-80+ fathoms | #/tow    |                     |         |
| Sand dollar unclass | 0.012  | 1.948   | 0.001         | 0.111   | 0.000         | 0.050   |                |          | 0.003               | 0.527   |
| Sculptured shrimp   |  |         |               |         | 0.000         | 0.050   |                |          | 0.000               | 0.013   |
| Scup                |  |         | 0.018         | 0.050   |               |         |                |          | 0.004               | 0.013   |
| Sea anemone         |  |         | 0.000         | 0.056   | 0.047         | 0.169   | 0.044          | 0.533    | 0.023               | 0.189   |
| Sea scallop         | 0.044  | 3.715   | 0.029         | 4.985   | 0.023         | 0.300   | 0.393          | 42.363   | 0.122               | 12.841  |
| Sea Raven           | 0.155  | 1.031   | 0.089         | 0.564   | 0.055         | 0.083   |                |          | 0.075               | 0.419   |
| Sea sponges         |  |         | 0.006         | 0.053   |               |         |                |          | 0.001               | 0.013   |
| Sea urchin          | 0.000  | 0.125   | 0.000         | 0.050   | 0.000         | 0.044   |                |          | 0.000               | 0.055   |
| Seaweed unclass     | 1.427  | 0.000   | 0.122         | 0.000   |               |         |                |          | 0.387               | 0.000   |
| Shortfin squid      |  |         |               |         | 0.004         | 0.063   | 0.002          | 0.092    | 0.001               | 0.039   |
| Shorthorn Sculpin   | 0.091  | 0.078   |               |         |               |         |                |          | 0.023               | 0.020   |
| Silver Hake         | 20.528   | 913.186 | 8.787         | 168.322 | 44.548        | 757.996 | 104.962        | 1920.123 | 44.706              | 939.907 |
| Smooth Skate        |  |         |               |         | 0.034         | 0.042   | 0.127          | 0.133    | 0.040               | 0.044   |
| Snakeblenny         | 0.005  | 0.228   | 0.006         | 0.250   | 0.010         | 0.400   |                |          | 0.005               | 0.219   |
| Spiny Dogfish       |  |         |               |         |               |         | 6.061          | 4.450    | 1.515               | 1.113   |
| Spoonarm octopus    |  |         |               |         | 0.003         | 0.063   | 0.006          | 0.150    | 0.002               | 0.053   |
| Thorny Skate        | 0.045  | 0.078   |               |         | 0.082         | 0.050   | 2.292          | 0.871    | 0.605               | 0.250   |
| Toad crab           | 0.004  | 0.611   | 0.002         | 0.292   | 0.000         | 0.092   |                |          | 0.002               | 0.249   |
| Unidentified catch  | 0.000  | 0.125   |               |         |               |         |                |          | 0.000               | 0.031   |
| Waved astarte       |  |         |               |         |               |         |                | 0.001    | 0.125               | 0.000   |
| White Hake          | 0.004  | 0.063   | 0.018         | 0.272   | 0.150         | 0.987   | 0.991          | 2.721    | 0.290               | 1.010   |
| Windowpane          | 0.138  | 0.333   | 0.029         | 0.111   | 0.005         | 0.083   |                |          | 0.043               | 0.132   |
| Winter Flounder     | 1.856  | 22.932  | 2.754         | 32.091  | 1.270         | 8.336   | 0.131          | 0.888    | 1.503               | 16.062  |
| Witch Flounder      |  |         | 0.000         | 0.098   | 0.342         | 2.682   | 2.481          | 16.151   | 0.706               | 4.733   |
| Yellowtail Flounder | 0.093  | 0.831   | 1.364         | 8.684   | 3.843         | 23.272  | 0.971          | 5.440    | 1.568               | 9.557   |

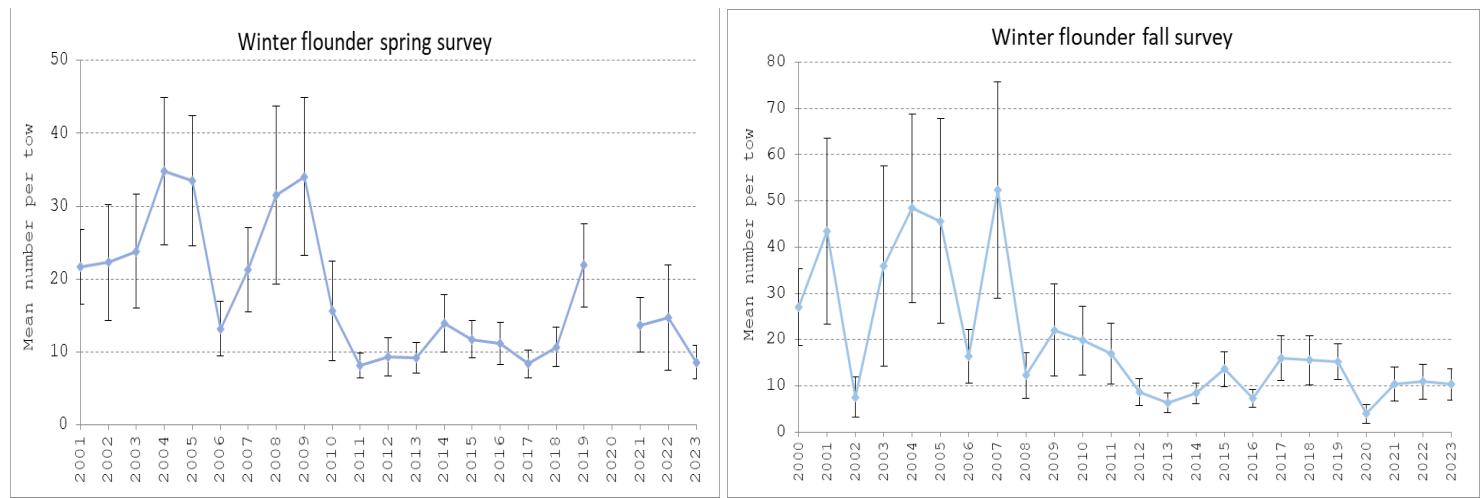
**Table 1-2. Mean weight and number per tow of marine species captured in the ME/NH Inshore Trawl Survey in Region 1 (NH and southern ME), Fall 2019-2023.**

| Species             | Region 1 (NH to Cape Elizabeth) - Fall 2019-2023 |         |               |         |               |         |                |         |                     |         |
|---------------------|--|---------|---------------|---------|---------------|---------|----------------|---------|---------------------|---------|
|                     | Stratum 1  |         | Stratum 2     |         | Stratum 3     |         | Stratum 4      |         | Region 1 all strata |         |
|                     | 5-20 fathoms                                     | #/tow   | 21-35 fathoms | #/tow   | 36-55 fathoms | #/tow   | 56-80+ fathoms | #/tow   |                     |         |
| Species             | kg/tow   | #/tow   | kg/tow        | #/tow   | kg/tow        | #/tow   | kg/tow         | #/tow   | kg/tow              | #/tow   |
| Acadian Redfish     | 0.257  | 6.656   | 0.432         | 17.572  | 0.861         | 25.351  | 9.432          | 151.934 | 2.745               | 50.378  |
| Alewife             | 0.193  | 3.798   | 3.153         | 35.972  | 6.433         | 44.955  | 6.523          | 43.756  | 4.076               | 32.120  |
| Alligatorfish       |  |         | 0.000         | 0.105   | 0.001         | 0.336   |                |         | 0.000               | 0.110   |
| American lobster    | 56.205   | 267.463 | 45.836        | 214.990 | 21.211        | 71.529  | 1.307          | 3.321   | 31.140              | 139.326 |
| American Plaice     |  |         | 0.290         | 3.822   | 3.059         | 38.907  | 13.509         | 69.825  | 4.214               | 28.139  |
| American Shad       | 0.204  | 2.299   | 0.252         | 1.851   | 0.892         | 4.765   | 0.324          | 1.899   | 0.418               | 2.703   |
| Atlantic Cod        | 0.217  | 0.372   | 0.023         | 0.078   | 0.313         | 0.140   | 0.482          | 0.140   | 0.258               | 0.183   |
| Atlantic Hagfish    |  |         |               |         | 0.010         | 0.047   |                |         | 0.002               | 0.012   |
| Atlantic Halibut    | 0.125  | 0.200   |               |         | 0.081         | 0.080   |                |         | 0.052               | 0.070   |
| Atlantic Herring    | 0.444  | 26.370  | 5.233         | 116.905 | 27.737        | 226.929 | 0.220          | 1.662   | 8.408               | 92.966  |
| Atlantic Mackerel   | 3.141  | 24.421  | 0.196         | 2.329   | 0.070         | 1.306   | 0.012          | 0.420   | 0.957               | 7.119   |
| Atlantic Menhaden   | 0.012  | 0.120   | 0.062         | 0.158   | 0.279         | 0.988   | 0.323          | 0.993   | 0.169               | 0.565   |
| Atlantic Moonfish   | 0.001  | 0.773   | 0.001         | 0.373   |               |         | 0.000          | 0.033   | 0.000               | 0.295   |
| Atlantic rock crab  | 0.039  | 2.341   | 0.063         | 0.333   | 0.000         | 0.033   |                |         | 0.026               | 0.677   |
| Atlantic Silverside | 0.000  | 0.059   |               |         |               |         |                |         | 0.000               | 0.015   |
| Atlantic Torpedo    |  |         | 0.760         | 0.050   |               |         |                |         | 0.190               | 0.013   |
| Barndoor Skate      |  |         |               |         | 0.672         | 0.100   | 1.224          | 0.187   | 0.474               | 0.072   |
| Blood star          | 0.001  | 0.543   | 0.000         | 0.168   | 0.000         | 0.000   | 0.000          | 0.033   | 0.000               | 0.186   |
| Blueback Herring    | 0.063  | 0.937   | 0.088         | 0.793   | 1.257         | 8.255   | 1.024          | 6.568   | 0.608               | 4.138   |
| Bluefish            | 0.010  | 0.299   |               |         |               |         |                |         | 0.003               | 0.075   |
| Blue mussel         |  |         | 0.062         | 9.787   |               |         |                |         | 0.016               | 2.447   |
| Brittle star        |  |         |               |         |               |         | 0.0012         | 0.000   |                     |         |
| Butterfish          | 1.520  | 98.458  | 2.257         | 64.772  | 2.025         | 26.164  | 0.752          | 10.374  | 1.638               | 49.942  |
| Common star         |  |         |               |         | 0.004         | 0.044   |                |         | 0.001               | 0.011   |
| Crangon shrimp      | 0.002  | 1.673   | 0.000         | 0.078   | 0.000         | 0.080   | 0.000          | 0.133   | 0.001               | 0.491   |
| Cunner              | 2.221  | 48.806  | 0.550         | 7.587   | 0.018         | 0.150   | 0.002          | 0.033   | 0.698               | 14.144  |
| Dichelo shrimp      | 0.000  | 0.231   | 0.146         | 82.472  | 0.582         | 266.193 | 0.592          | 225.761 | 0.330               | 143.664 |
| Fourbeard Rockling  |  |         | 0.006         | 0.177   | 0.068         | 0.626   | 0.156          | 3.048   | 0.058               | 0.963   |
| Fourspot Flounder   | 0.007  | 0.059   | 0.092         | 0.795   | 0.317         | 1.768   | 0.098          | 0.420   | 0.129               | 0.760   |
| Haddock             | 0.013  | 1.009   | 0.338         | 3.731   | 1.422         | 3.858   | 13.270         | 16.871  | 3.761               | 6.367   |
| Jonah crab          | 0.041  | 0.655   | 0.393         | 2.226   | 0.214         | 1.666   | 0.158          | 1.582   | 0.202               | 1.532   |
| Krill               |  |         |               |         | 0.000         | 0.120   | 7.333          | 0.073   | 0.000               | 0.048   |
| Little Skate        | 0.362  | 0.501   | 0.175         | 0.180   |               |         | 0.109          | 0.073   | 0.161               | 0.189   |
| Longfin squid       | 0.761  | 55.341  | 0.406         | 45.687  | 0.360         | 30.102  | 0.111          | 8.167   | 0.409               | 34.824  |
| Longhorn Sculpin    | 0.518  | 3.769   | 2.541         | 22.336  | 0.337         | 2.309   | 0.034          | 0.200   | 0.857               | 7.153   |
| Lumpfish            |  |         | 0.066         | 0.364   | 0.183         | 0.532   | 0.500          | 0.800   | 0.187               | 0.424   |
| Mantis shrimp       |  |         | 0.000         | 0.053   |               |         |                |         | 0.000               | 0.013   |
| Monkfish            | 0.020  | 0.166   | 1.324         | 2.649   | 6.301         | 5.897   | 7.999          | 6.589   | 3.911               | 3.825   |
| Montagu shrimp      |  |         |               |         | 0.000         | 0.075   | 0.036          | 13.100  | 0.009               | 3.294   |
| Moon jelly          |  |         | 0.051         | 0.067   | 0.007         | 0.118   | 0.100          | 0.433   | 0.039               | 0.154   |
| Northern shrimp     |  |         |               |         | 0.075         | 9.550   | 0.273          | 26.544  | 0.087               | 9.023   |
| Norwegian shrimp    |  |         |               |         |               |         | 0.003          | 2.713   | 0.001               | 0.678   |
| Ocean Pout          | 0.001  | 0.033   | 0.023         | 0.454   | 0.021         | 0.240   | 0.017          | 0.067   | 0.016               | 0.199   |
| Pearlsides          |  |         |               |         | 0.000         | 0.100   | 0.000          | 0.100   | 0.000               | 0.050   |
| Pink glass shrimp   |  |         |               |         |               |         | 0.003          | 1.520   | 0.001               | 0.380   |
| Pollock             |  |         |               |         | 0.026         | 0.193   | 0.138          | 0.213   | 0.041               | 0.102   |
| Porbeagle           |  |         |               |         |               |         | 2.600          | 0.033   | 0.650               | 0.008   |
| Rainbow Smelt       | 0.002  | 0.111   |               |         |               |         |                |         | 0.001               | 0.028   |
| Rat-tail cucumber   | 0.000  | 0.042   |               |         |               |         |                |         | 0.000               | 0.011   |
| Red Hake            | 0.067  | 1.333   | 4.546         | 67.831  | 20.672        | 124.494 | 45.692         | 242.459 | 17.744              | 109.030 |
| Rock Gunnel         | 0.001  | 0.200   |               |         |               |         |                |         | 0.000               | 0.050   |
| Rough Scad          | 0.004  | 0.162   |               |         |               |         |                |         | 0.001               | 0.040   |
| Sand dollar unclass | 0.009  | 1.024   |               |         |               |         |                |         | 0.002               | 0.256   |
| Sculptured shrimp   |  |         |               |         | 0.000         | 0.147   | 0.000          | 0.033   | 0.000               | 0.045   |
| Sea anemone         |  |         | 0.010         | 0.507   | 0.073         | 0.342   | 0.210          | 0.815   | 0.073               | 0.416   |
| Sea pen             |  |         |               |         |               |         | 0.001          | 0.000   |                     |         |

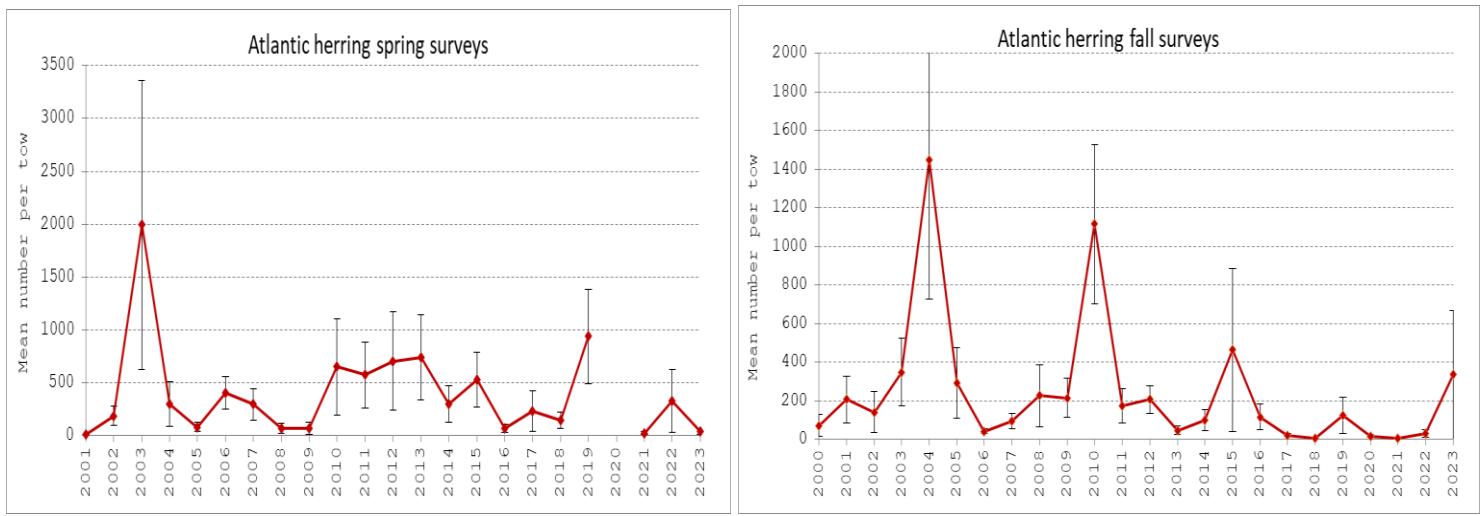
| Species             | Region 1 (NH to Cape Elizabeth)- Fall 2019-2023 |               |               |                |           |          |           |          |                     |         |
|---------------------|---|---------------|---------------|----------------|-----------|----------|-----------|----------|---------------------|---------|
|                     | Stratum 1                                       |               | Stratum 2     |                | Stratum 3 |          | Stratum 4 |          | Region 1 all strata |         |
|                     | 5-20 fathoms                                    | 21-35 fathoms | 36-55 fathoms | 56-80+ fathoms |           |          |           |          |                     |         |
| Species             | kg/tow  | #/tow         | kg/tow        | #/tow          | kg/tow    | #/tow    | kg/tow    | #/tow    | kg/tow              | #/tow   |
| Sea Raven           | 0.063   | 0.267         | 0.108         | 0.211          |           |          |           |          | 0.043               | 0.119   |
| Sea scallop         | 0.018   | 1.783         | 0.009         | 1.389          | 0.004     | 0.132    | 0.744     | 55.135   | 0.194               | 14.610  |
| Sea sponges         | 0.006   | 0.000         | 0.010         | 0.212          |           |          |           |          | 0.004               | 0.053   |
| Sea urchin          | 0.001   | 0.484         |               |                |           |          |           |          | 0.000               | 0.121   |
| Seaweed unclass     | 0.382   | 0.000         |               |                | 0.034     | 0.000    | 0.005     | 0.000    | 0.105               | 0.000   |
| Shrimp              |   |               | 0.000         | 0.040          |           |          | 0.001     | 0.320    | 0.000               | 0.090   |
| Shortfin squid      | 0.012   | 0.167         | 0.294         | 2.217          | 1.114     | 6.663    | 4.476     | 21.359   | 1.474               | 7.601   |
| Shorthorn Sculpin   | 0.003   | 0.053         |               |                |           |          |           |          | 0.001               | 0.013   |
| Silver Hake         | 3.244   | 78.366        | 24.848        | 437.197        | 78.158    | 1397.918 | 125.282   | 1737.518 | 57.883              | 912.750 |
| Silver Rag          | 0.001   | 0.120         | 0.003         | 0.200          | 0.002     | 0.067    | 0.018     | 0.033    | 0.006               | 0.105   |
| Smooth Skate        |   |               |               |                | 0.000     | 0.033    | 0.179     | 0.213    | 0.045               | 0.062   |
| Snakeblenny         |   |               |               |                | 0.002     | 0.040    |           |          | 0.000               | 0.010   |
| Spiny Dogfish       |   |               | 0.314         | 0.150          | 3.710     | 2.294    | 58.893    | 41.122   | 15.729              | 10.892  |
| Spiny lebeid        | 0.000   | 0.042         |               |                |           |          |           |          | 0.000               | 0.011   |
| Spoonarm octopus    |   |               |               |                |           |          | 0.077     | 0.350    | 0.019               | 0.088   |
| Spotted Hake        | 0.003   | 0.037         | 0.015         | 0.137          |           |          |           |          | 0.004               | 0.044   |
| Striped Bass        | 2.481   | 2.453         |               |                | 0.093     | 0.047    |           |          | 0.643               | 0.625   |
| Striped Searobin    | 0.000   | 0.053         |               |                |           |          |           |          | 0.000               | 0.013   |
| Thorny Skate        |   |               |               |                | 0.088     | 0.047    | 5.624     | 1.373    | 1.428               | 0.355   |
| Toad crab           | 0.002   | 0.457         | 0.003         | 0.520          |           |          | 0.000     | 0.040    | 0.001               | 0.254   |
| Trash species       |   |               |               |                |           |          | 0.006     | 0.068    | 0.002               | 0.017   |
| Tunicate unclass    |   |               | 0.008         | 0.168          | 0.001     | 0.211    |           |          | 0.002               | 0.095   |
| Waved astarte       |   |               |               |                |           |          | 0.001     | 0.067    | 0.000               | 0.017   |
| White Hake          | 0.113   | 1.180         | 1.361         | 10.605         | 5.782     | 17.614   | 14.353    | 12.568   | 5.402               | 10.492  |
| Windowpane          | 0.089   | 0.636         | 0.020         | 0.218          |           |          | 0.003     | 0.033    | 0.028               | 0.222   |
| Winter Flounder     | 2.261   | 20.915        | 3.220         | 23.602         | 0.981     | 2.689    | 0.017     | 0.500    | 1.620               | 11.926  |
| Witch Flounder      |   |               | 0.168         | 1.320          | 6.264     | 36.606   | 9.464     | 47.162   | 3.974               | 21.272  |
| Wrymouth            |   |               |               |                | 0.009     | 0.109    |           |          | 0.002               | 0.027   |
| Yellowtail Flounder | 0.175   | 1.268         | 1.021         | 6.045          | 2.440     | 12.775   | 0.092     | 0.513    | 0.932               | 5.150   |



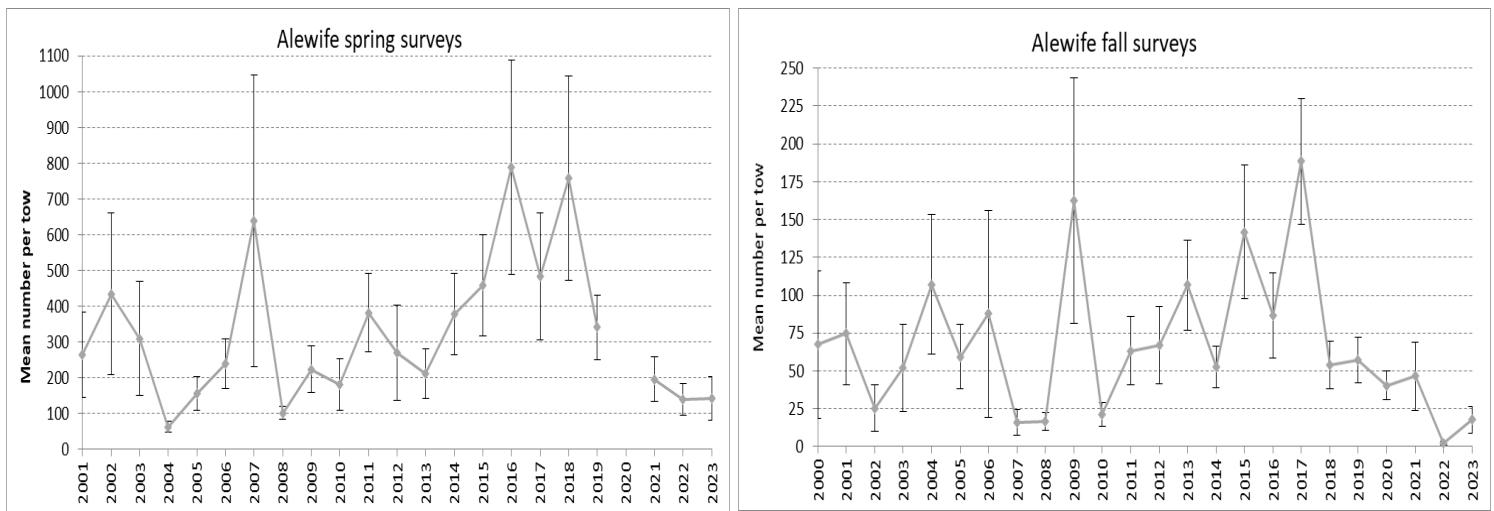
**Figure 1-1. Mean number per tow of Atlantic Cod (*Gadus morhua*) from Region 1 of the ME/NH Inshore Trawl Survey during spring and fall, 2000-2023.**



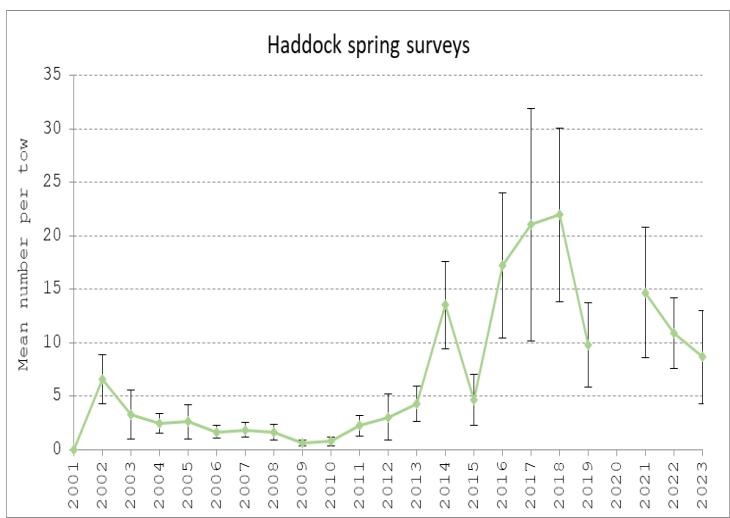
**Figure 1-2. Mean number per tow of Winter Flounder (*Pseudopleuronectes americanus*) from Region 1 of the ME/NH Inshore Trawl Survey during spring and fall, 2000-2023.**



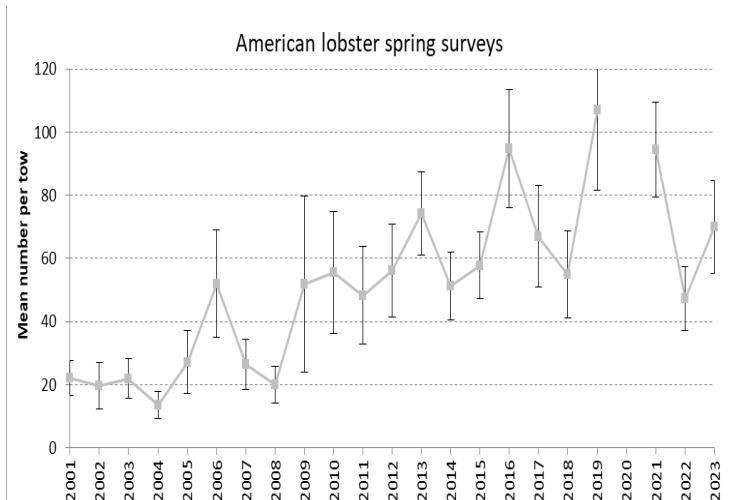
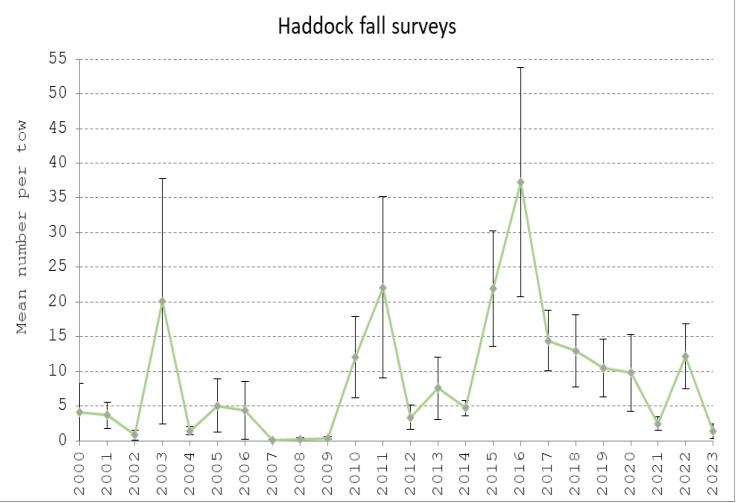
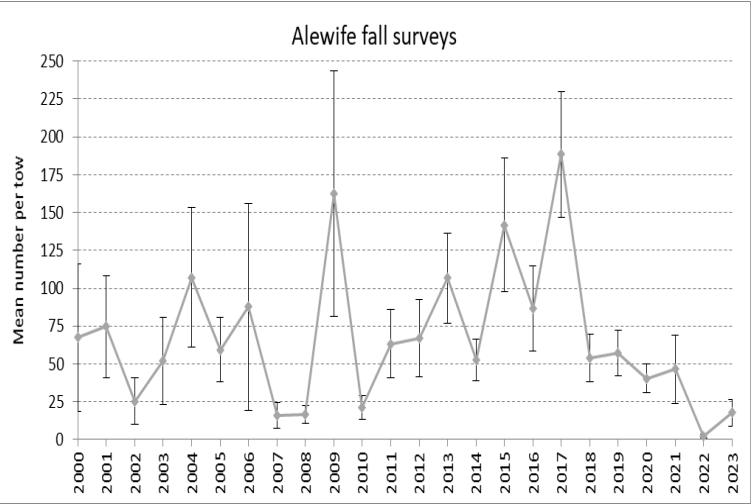
**Figure 1-3. Mean number per tow of Atlantic Herring (*Clupea harengus*) from Region 1 of the ME/NH Inshore Trawl Survey during spring and fall, 2000-2023.**



**Figure 1-4.** Mean number per tow of alewife (*Alosa pseudoharengus*) from Region 1 of the ME/NH Inshore Trawl Survey during spring and fall, 2000-2023.



**Figure 1-5.** Mean number per tow of Haddock (*Melanogrammus aeglefinus*) from Region 1 of the ME/NH Inshore Trawl Survey during spring and fall, 2000-2023.



**Figure 1-6.** Mean number per tow of American lobster (*Homarus americanus*) from Region 1 of the ME/NH Inshore Trawl Survey during spring and fall, 2000-2023.

