

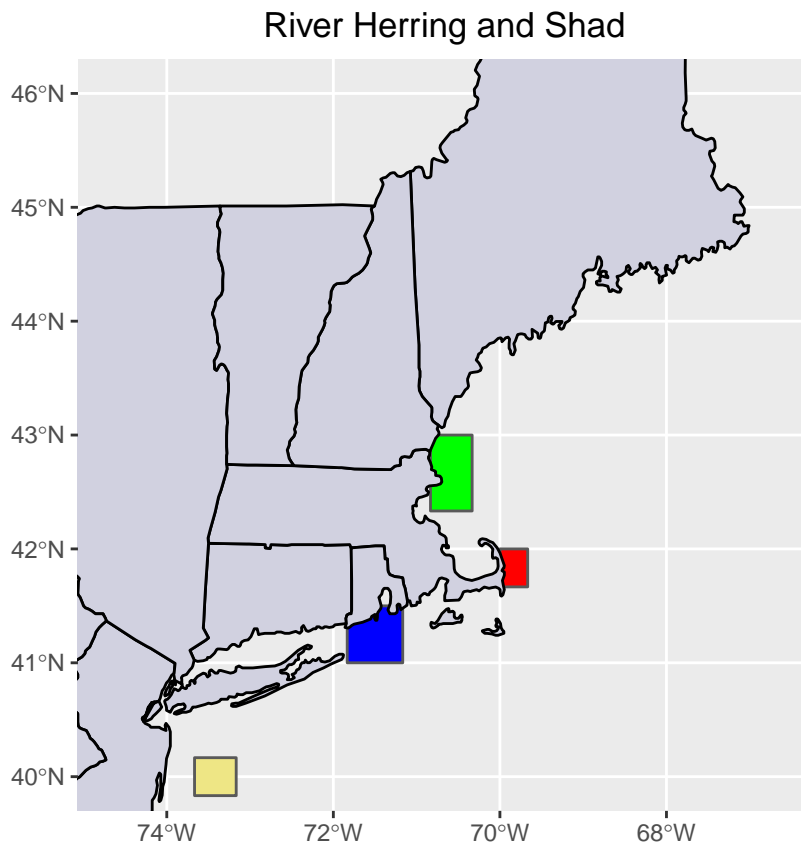
Appendix 2 - Spatial Economic Analyses of Selected Areas that had higher levels of observed RH/S Catch

## Maps for River Herring

Min-Yang Lee

June 09, 2021

### Maps of Selected Fishery Landings and Revenue



**Data sources:**

Commerical Fisheries landings data, Vessel Trip Reports, and Surfclam/OceanQuahog Logbooks

**Caveats and notes:**

- When mapped, values are reported in nominal dollars per square kilometer.
- When mapped, values reported are nominal dollars per square kilometer.
- Pounds are reported in landed pounds.

- Data summarized here is based on vessels that are required to provide federal VTRs.

## Selected Maps

Midwater Trawl River herring

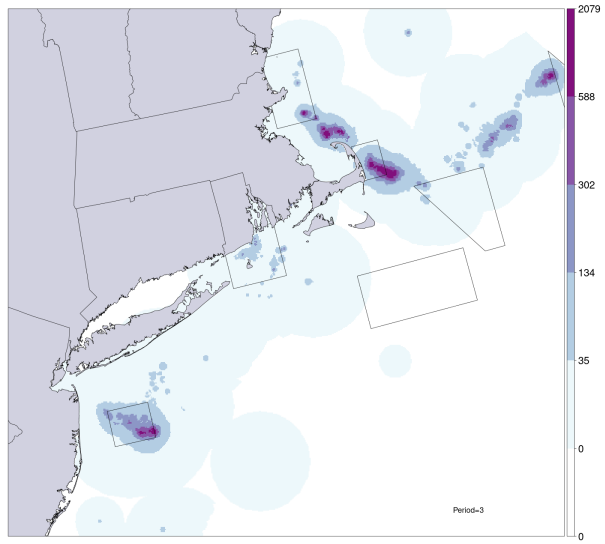
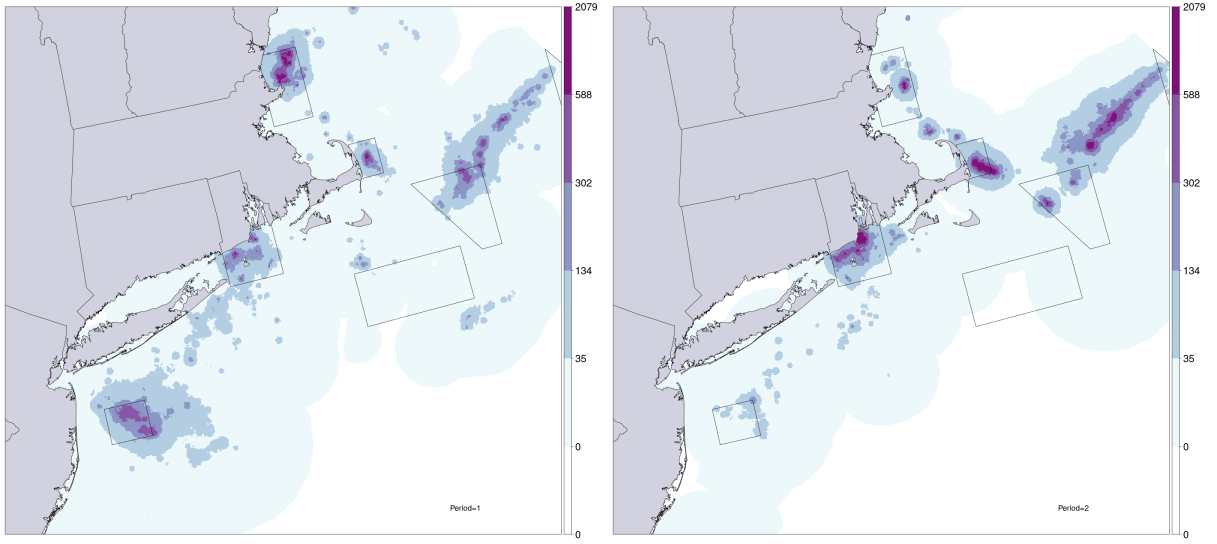


Figure 1: Total Revenue by Midwater Trawl. Top Left: 2008-2011. Top Right: 2012-2015. Bottom: 2016-2019.

## **Small Mesh Bottom Trawl River herring**

### **References**

DePiper GS (2014) Statistically assessing the precision of self-reported VTR fishing locations.  
Benjamin S, Lee MY, DePiper G. 2018. Visualizing fishing data as rasters. NEFSC Ref Doc 18-12; 24 p.

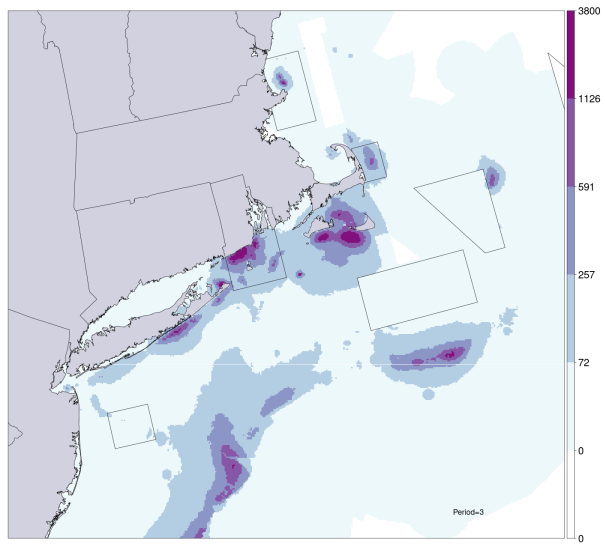
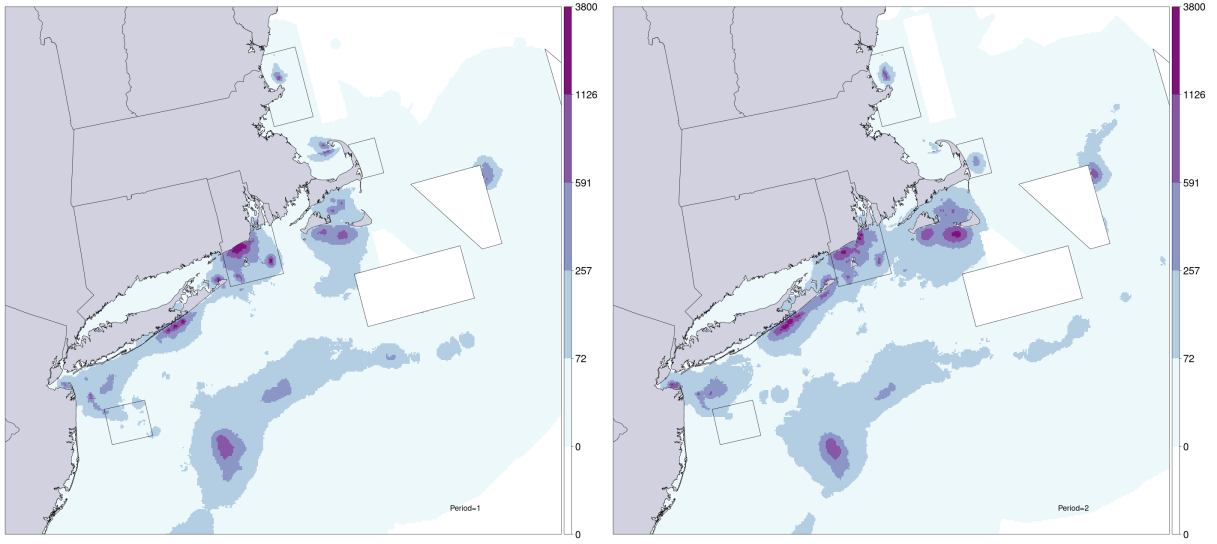


Figure 2: Total Revenue by Small Mesh Bottom Trawl. Top Left: 2008-2011. Top Right: 2012-2015. Bottom: 2016-2019.

# Tables and Reports for River Herring Areas

Min-Yang Lee

June 10, 2021

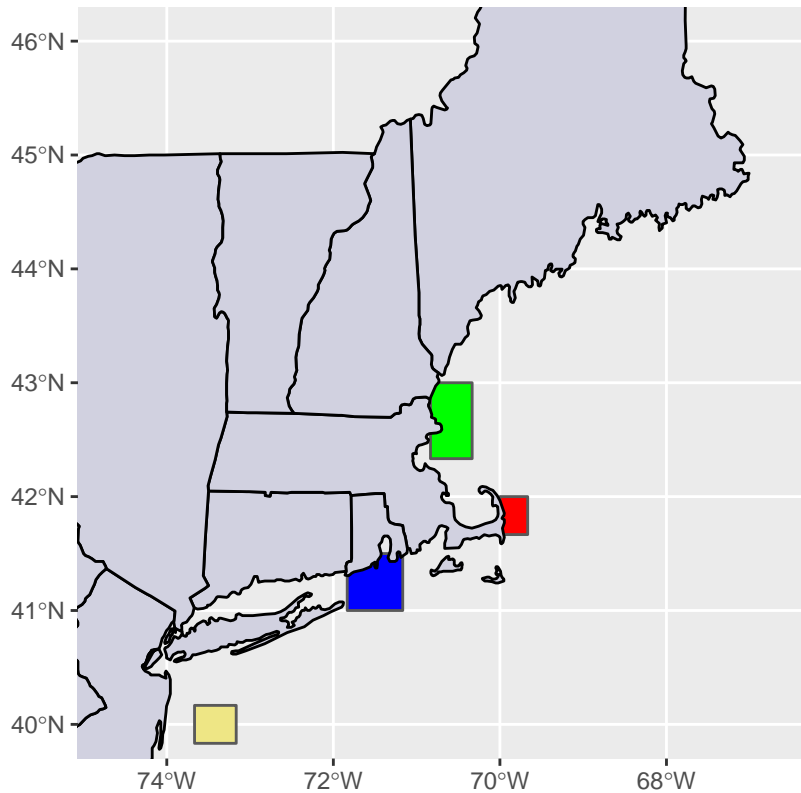
[Back](#)

Descriptions of Selected Fishery Landings and Estimates of Vessel Revenue from Selected Areas

Prepared by:  
National Marine Fisheries Service

June 10, 2021

## River Herring and Shad



Data sources:

Commerical Fisheries landings data, Vessel Trip Reports, and Surfclam/OceanQuahog Logbooks

**In order to meet requirements of maintaining data confidentiality, these strata are presented individually. In addition, records that did not meet the rule of three ( $\geq 3$  unique dealers and  $\geq 3$  unique permits), values were summarized as 'ALL OTHERS'.**

Some caveats/notes:

- Values are reported in nominal dollars. Values in 2019 dollars are reported as well (see below for details).
- Pounds are reported in landed (dressed) pounds.
- Data summarized here is based on vessels that are required to provide federal VTRs.
- Federal lobster vessels, with only lobster permits, do not have a VTR requirement. Many Atlantic Highly Migratory Species permitted vessels also do not have a VTR requirement. Trips with no VTR are not reflected in this summary.
- There exist other fisheries in State waters that may not be reflected in data from federal sources (e.g. whelk, bluefish). It is recommended to query state agencies for additional data within state waters.
- All summaries presented here are built from percentages of a trip that overlapped spatially with the WEAs. These percentages were applied to landings and values for that trip and summed. This differs from simply using the self-reported VTR/clam logbook locations as those place all value from that trip at a single point. Use of the VTR raster model is more representative as smoothing reported locations reduces the effect of location inaccuracy.

#### References

- [DePiper GS \(2014\) Statistically assessing the precision of self-reported VTR fishing locations.](#)  
[Benjamin S, Lee MY, DePiper G. 2018. Visualizing fishing data as rasters. NEFSC Ref Doc 18-12; 24 p.](#)



## Most Impacted FMPs

We define “most impacted” as the FMPs deriving the most revenue from the areas over the twelve year analysis period of 2008 to 2019, indicating the highest potential for impact to industry from a reduction in fishing area. The top 5 FMPs by revenue between all areas were Sea Scallop, American Lobster, Northeast Multispecies, Atlantic Herring and Summer Flounder, Scup, Black Sea Bass. Revenue values have been deflated to 2019 dollars. All numbers have been rounded to the nearest thousand. Specific figures on these FMPs within each area follow. Figure 1.1 Landings from Most Impacted FMPs, RHS 1 NHMA Merge

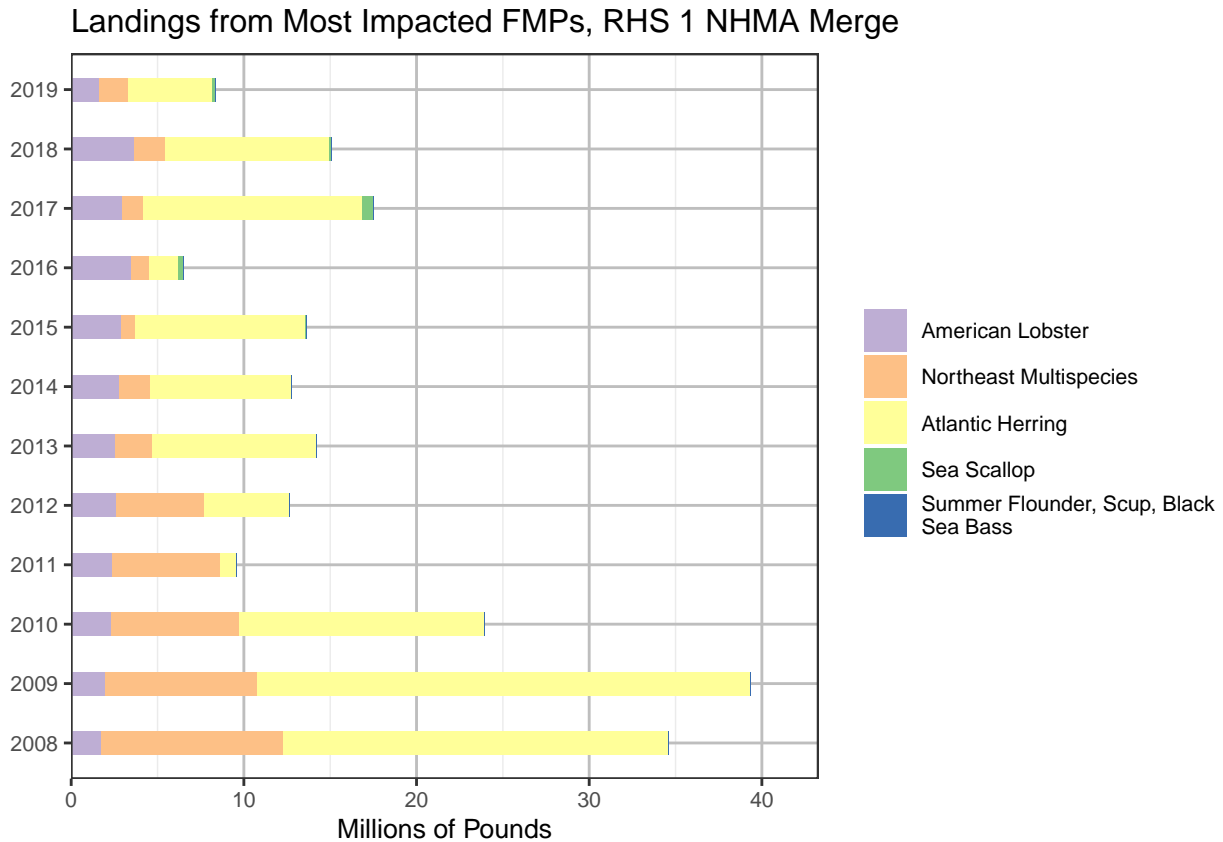


Table 1: Twelve Year Total Landings (Pounds), Most Impacted FMPs, RHS 1 NHMA Merge

FMP	Twelve Year Landings
Atlantic Herring	127,470,000
Northeast Multispecies	48,259,000
American Lobster	30,951,000
Sea Scallop	1,432,000
Summer Flounder, Scup, Black Sea Bass	7,000
<b>Total</b>	<b>208,119,000</b>

Figure 1.2 Revenue from Most Impacted FMPs, RHS 1 NHMA Merge

Revenue from Most Impacted FMPs, RHS 1 NHMA Merge

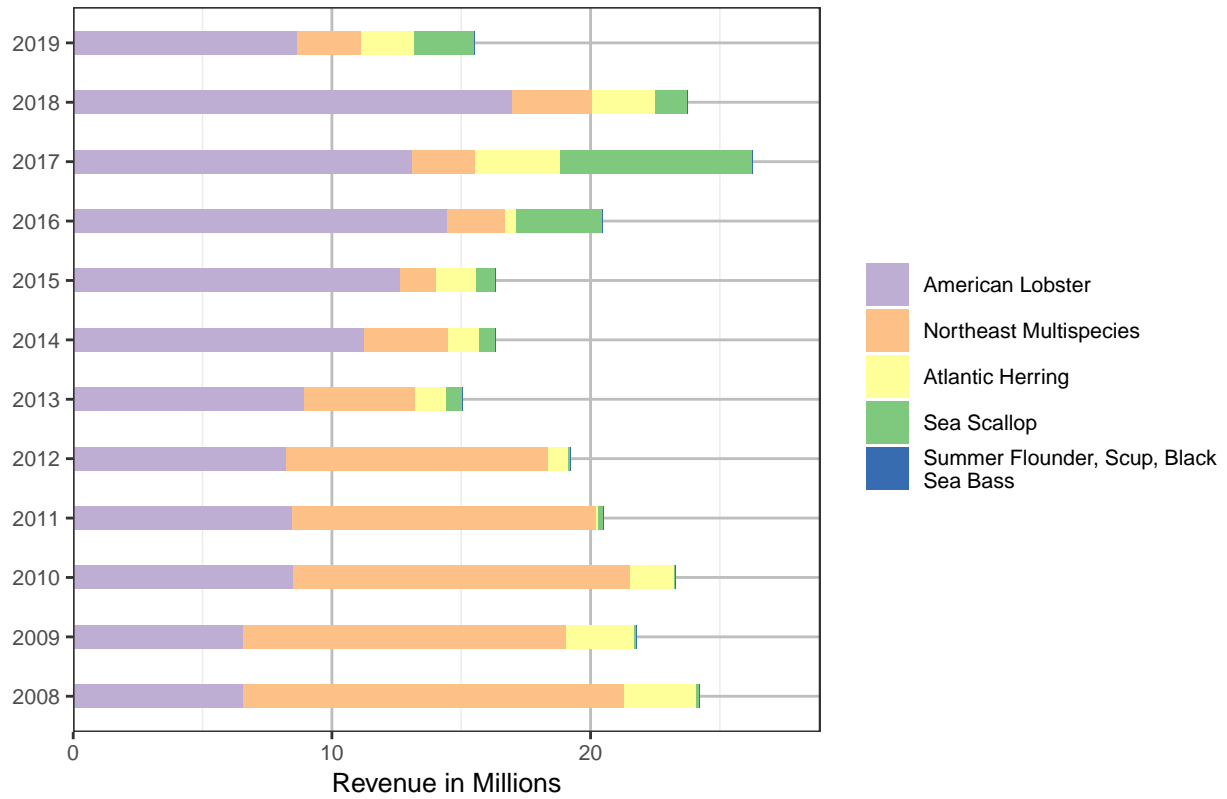


Table 2: Twelve Year Total Revenue for Most Impacted FMPs, RHS 1 NHMA Merge

FMP	Twelve Year Revenue
American Lobster	\$124,370,000
Northeast Multispecies	\$81,052,000
Atlantic Herring	\$20,423,000
Sea Scallop	\$16,784,000
Summer Flounder, Scup, Black Sea Bass	\$13,000
<b>Total</b>	<b>\$242,641,000</b>

Figure 1.3 Landings from Most Impacted FMPs, RHS 2 Cape Merge

### Landings from Most Impacted FMPs, RHS 2 Cape Merge

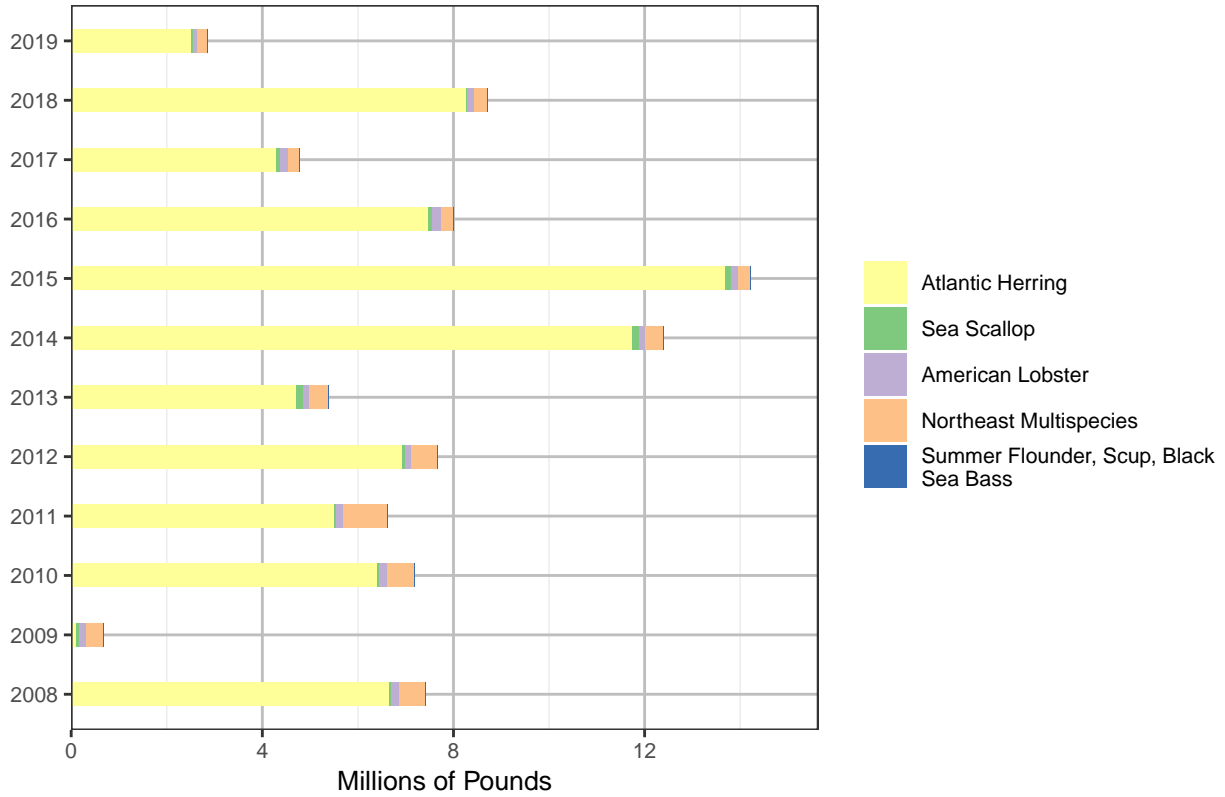


Table 3: Twelve Year Total Landings (Pounds), Most Impacted FMPs, RHS 2 Cape Merge

FMP	Twelve Year Landings
Atlantic Herring	78,262,000
Northeast Multispecies	4,927,000
American Lobster	1,857,000
Sea Scallop	796,000
Summer Flounder, Scup, Black Sea Bass	31,000
<b>Total</b>	<b>85,873,000</b>

Figure 1.4 Revenue from Most Impacted FMPs, RHS 2 Cape Merge

Revenue from Most Impacted FMPs, RHS 2 Cape Merge

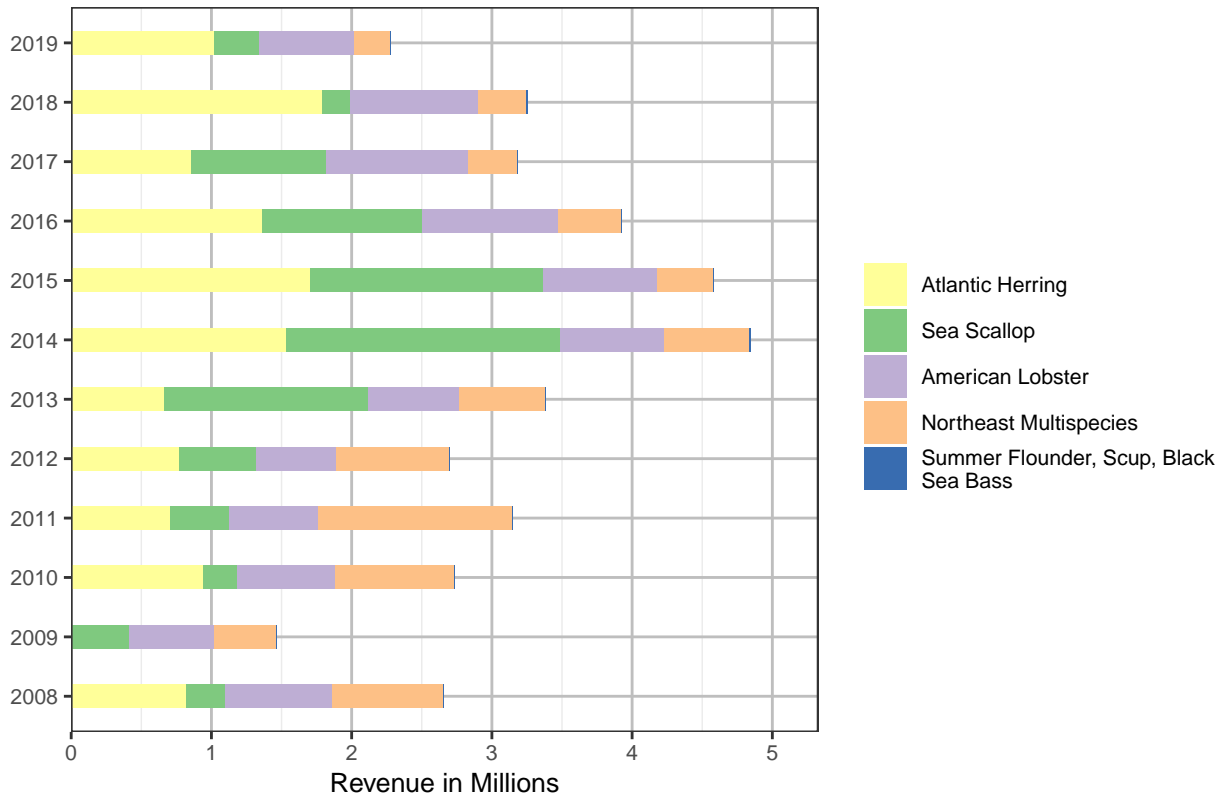


Table 4: Twelve Year Total Revenue for Most Impacted FMPs, RHS 2 Cape Merge

FMP	Twelve Year Revenue
Atlantic Herring	\$12,181,000
Sea Scallop	\$9,544,000
American Lobster	\$9,099,000
Northeast Multispecies	\$7,271,000
Summer Flounder, Scup, Black Sea Bass	\$59,000
<b>Total</b>	<b>\$38,154,000</b>

Figure 1.5 Landings from Most Impacted FMPs, RHS 3 RI Merge

### Landings from Most Impacted FMPs, RHS 3 RI Merge

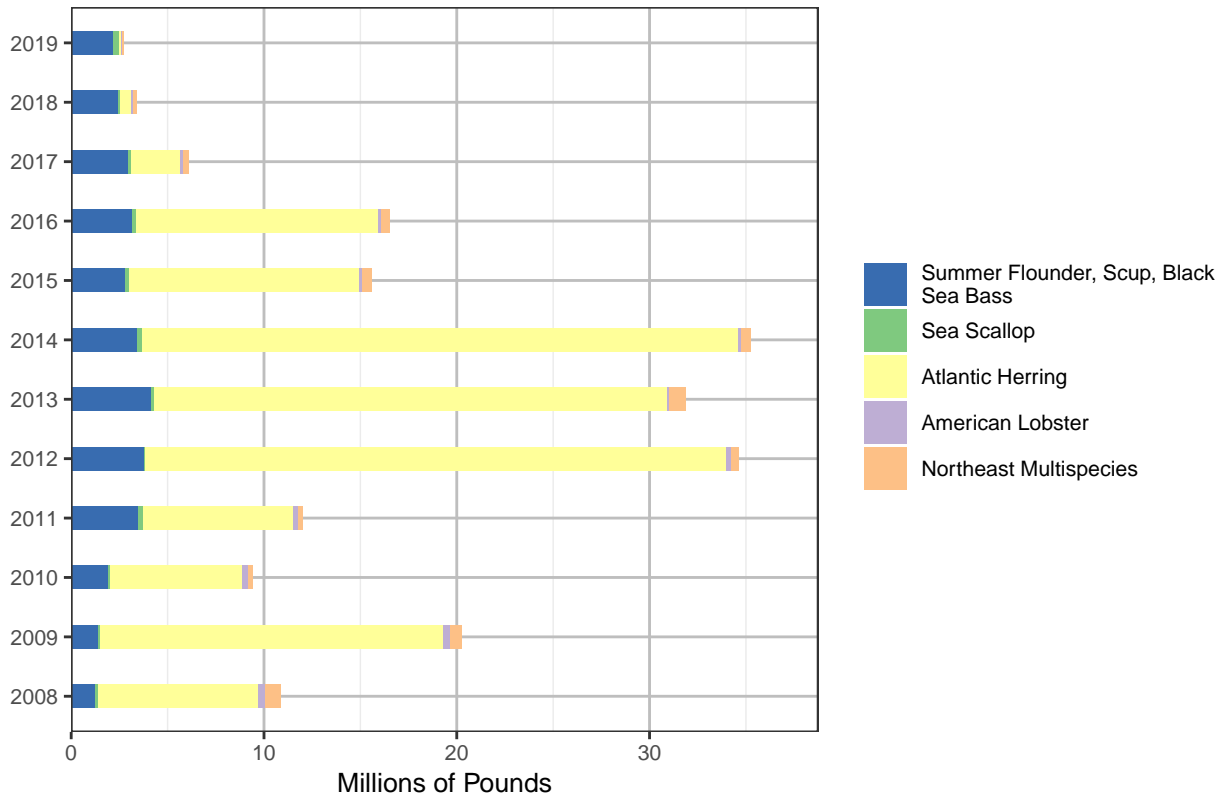


Table 5: Twelve Year Total Landings (Pounds), Most Impacted FMPs, RHS 3 RI Merge

FMP	Twelve Year Landings
Atlantic Herring	156,153,000
Summer Flounder, Scup, Black Sea Bass	32,664,000
Northeast Multispecies	5,122,000
American Lobster	2,778,000
Sea Scallop	1,972,000
<b>Total</b>	<b>198,690,000</b>

Figure 1.6 Revenue from Most Impacted FMPs, RHS 3 RI Merge

Revenue from Most Impacted FMPs, RHS 3 RI Merge

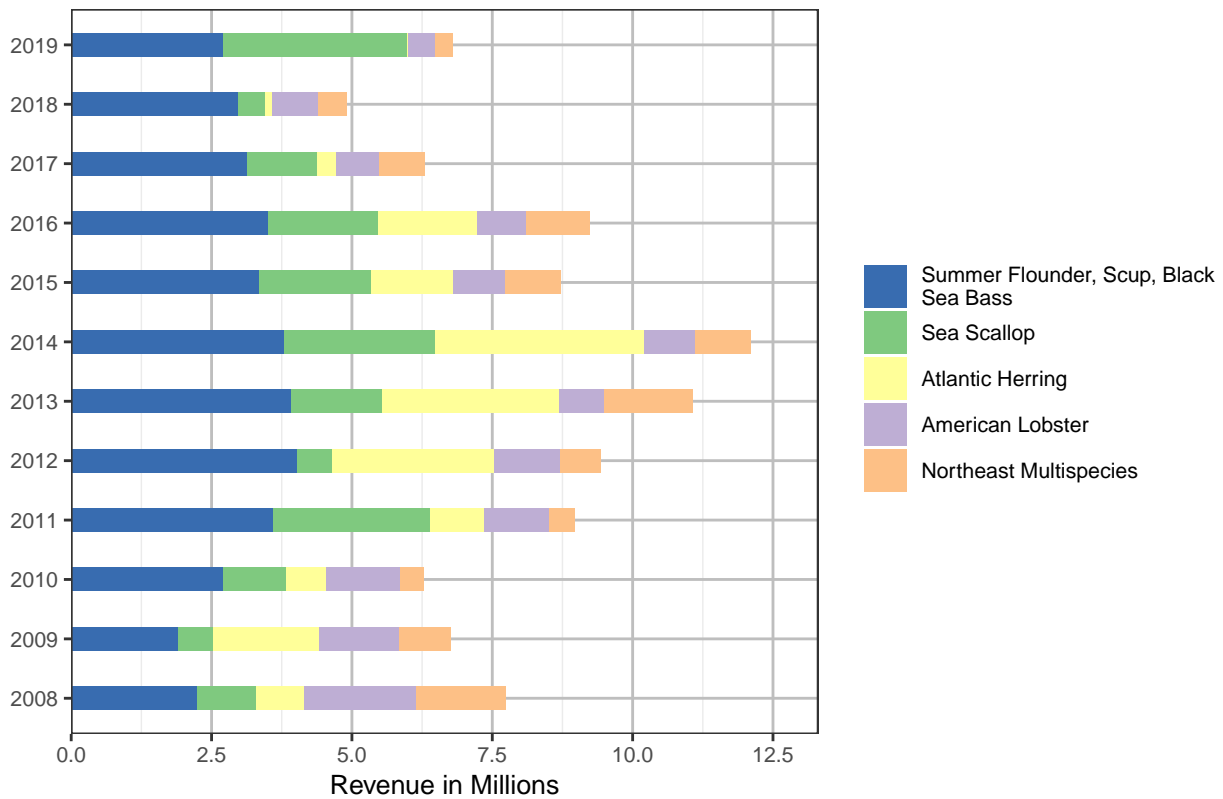


Table 6: Twelve Year Total Revenue for Most Impacted FMPs, RHS 3 RI Merge

FMP	Twelve Year Revenue
Summer Flounder, Scup, Black Sea Bass	\$37,784,000
Sea Scallop	\$19,465,000
Atlantic Herring	\$17,871,000
American Lobster	\$12,791,000
Northeast Multispecies	\$10,414,000
<b>Total</b>	<b>\$98,325,000</b>

Figure 1.7 Landings from Most Impacted FMPs, RHS 4 NJ Merge

Landings from Most Impacted FMPs, RHS 4 NJ Merge

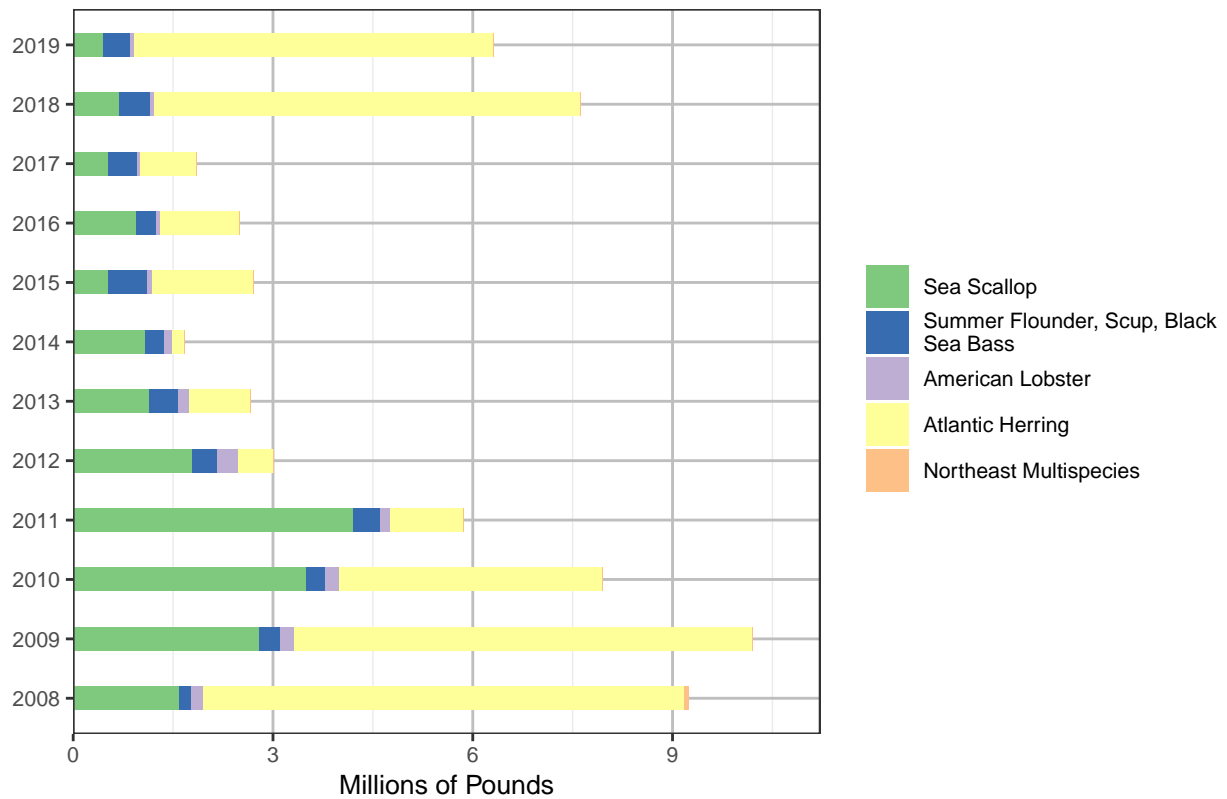


Table 7: Twelve Year Total Landings (Pounds), Most Impacted FMPs, RHS 4 NJ Merge

FMP	Twelve Year Landings
Atlantic Herring	36,117,000
Sea Scallop	19,231,000
Summer Flounder, Scup, Black Sea Bass	4,385,000
American Lobster	1,768,000
Northeast Multispecies	112,000
<b>Total</b>	<b>61,613,000</b>

Figure 1.8 Revenue from Most Impacted FMPs, RHS 4 NJ Merge

### Revenue from Most Impacted FMPs, RHS 4 NJ Merge

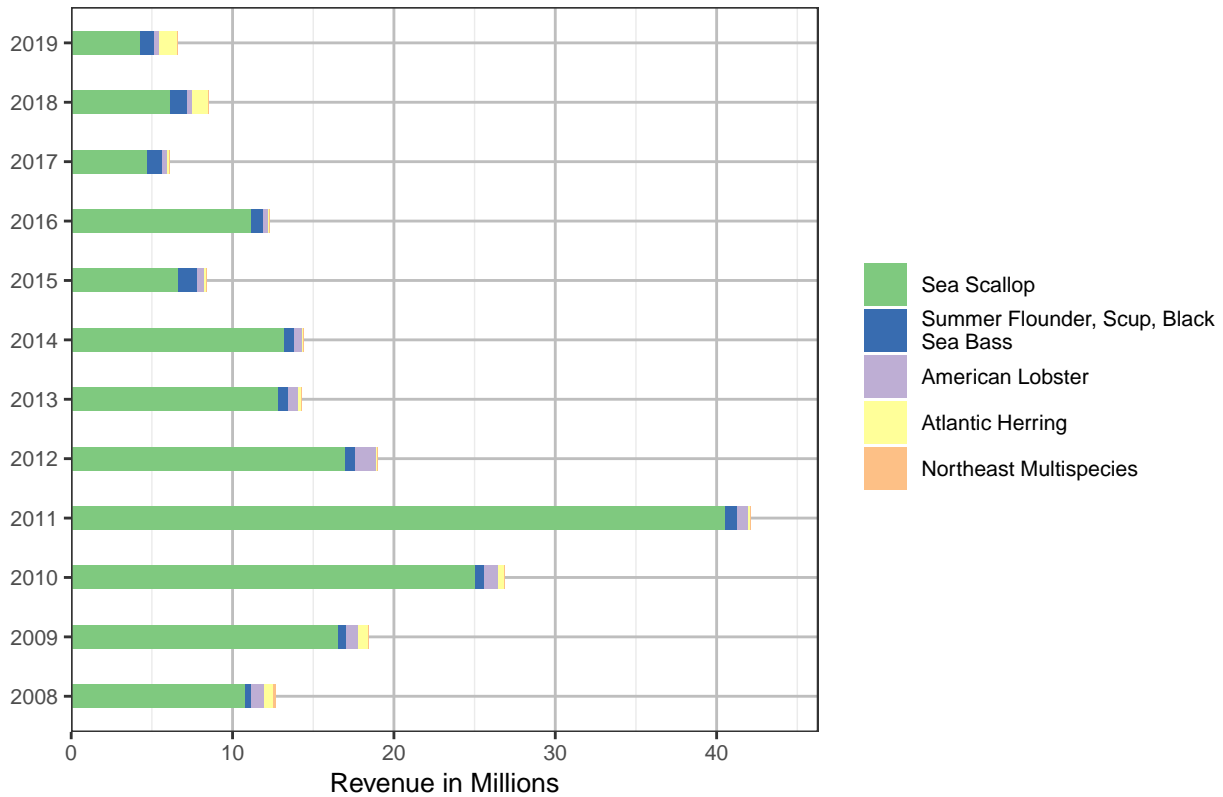


Table 8: Twelve Year Total Revenue for Most Impacted FMPs, RHS 4 NJ Merge

FMP	Twelve Year Revenue
Sea Scallop	\$168,754,000
Summer Flounder, Scup, Black Sea Bass	\$8,430,000
American Lobster	\$7,663,000
Atlantic Herring	\$4,505,000
Northeast Multispecies	\$204,000
<b>Total</b>	<b>\$189,556,000</b>

### Summary

Table 9: Most Impacted FMPs Twelve Year Revenue and Landings

Area	Twelve Year Revenue	Twelve Year Landings (Pounds)
RHS 1 NHMA Merge	\$242,641,000	208,119,000
RHS 2 Cape Merge	\$ 38,154,000	85,873,000
RHS 3 RI Merge	\$ 98,325,000	198,690,000
RHS 4 NJ Merge	\$189,556,000	61,613,000
<b>Total</b>	<b>\$568,676,000</b>	<b>554,295,000</b>



## Other Impacted FMPs

We analyzed other impacted FMPs separately in order to better visualize the estimated landings and revenues. The other impacted FMPs are: All Others, Bluefish, Golden And Blueline Tilefish, Highly Migratory Species, Jonah Crab, Mackerel, Squid, And Butterfish, Monkfish, No Federal Fmp, Skates, Small-Mesh Multispecies, Spiny Dogfish and Surfclam, Ocean Quahog . The category “All Others” refers to FMPs with less than three permits or dealers impacted to protect data confidentiality. Revenue values have been deflated to 2019 dollars. All numbers have been rounded to the nearest thousand. Figure 2.1 Landings from Other Impacted FMPs, RHS 1 NHMA Merge

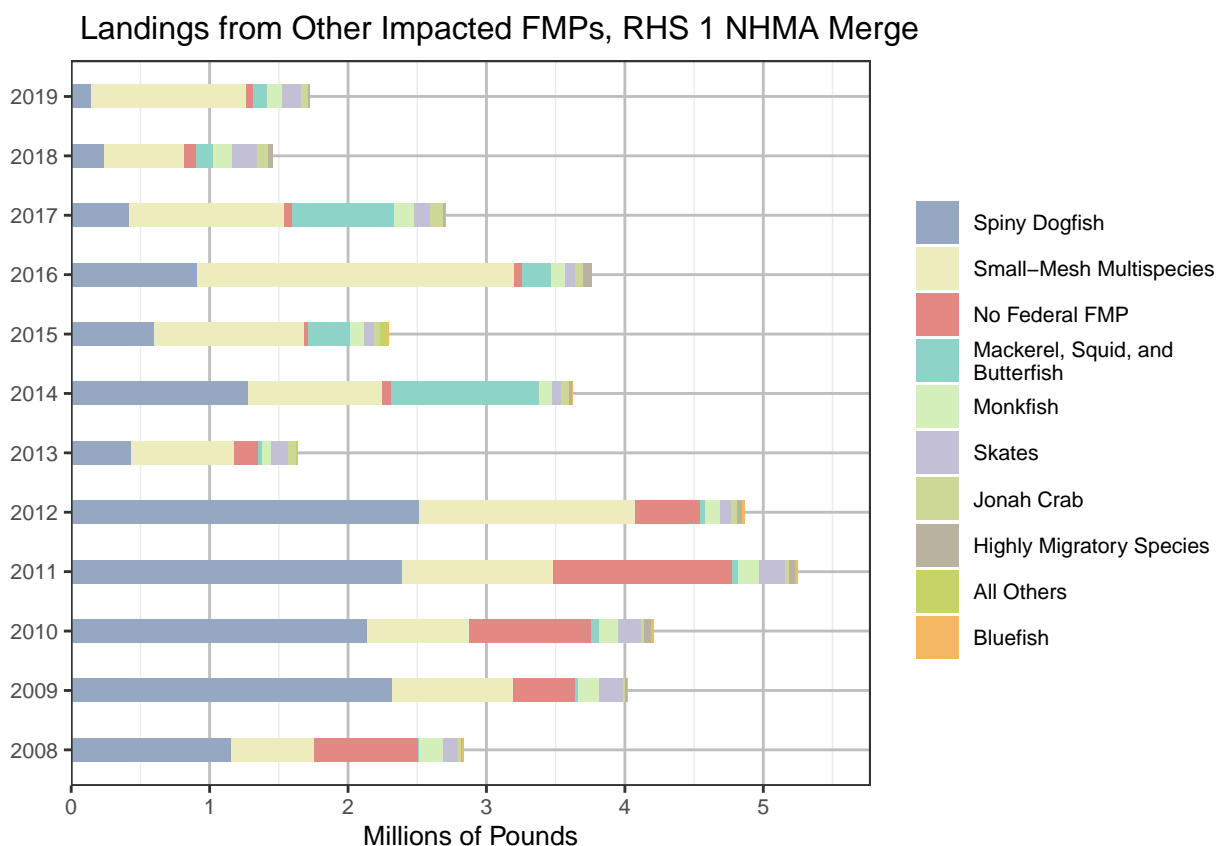


Table 10: Twelve Year Total Landings (Pounds), Other Impacted FMP, RHS 1 NHMA Merge

FMP	Twelve Year Landings
Spiny Dogfish	14,486,000
Small-Mesh Multispecies	12,796,000
No Federal FMP	4,348,000
Mackerel, Squid, and Butterfish	2,796,000
Monkfish	1,450,000
Skates	1,437,000
Jonah Crab	580,000
Highly Migratory Species	307,000
Bluefish	89,000
All Others	78,000
<b>Total</b>	<b>38,369,000</b>

Figure 2.2 Revenue from Other Impacted FMPs, RHS 1 NHMA Merge

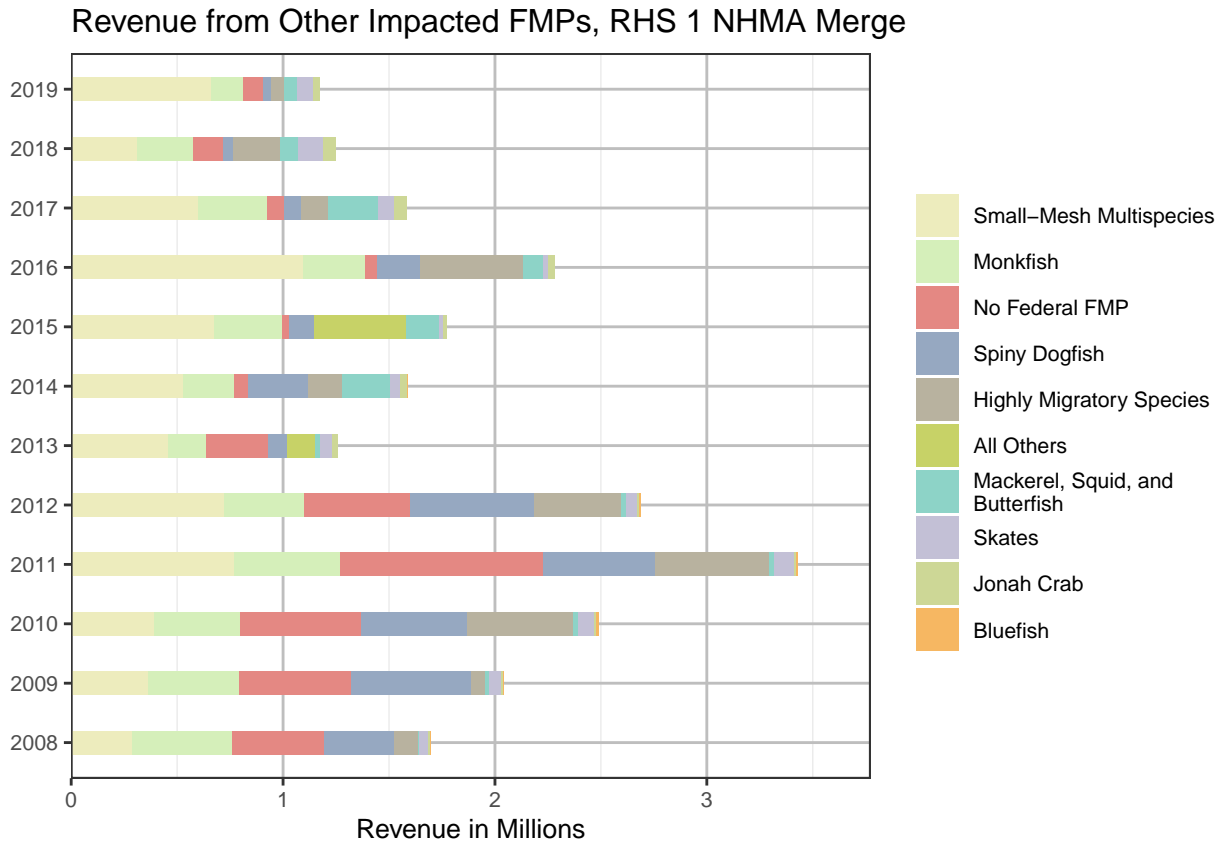


Table 11: Twelve Year Total Revenue for Other Impacted FMPs, RHS 1 NHMA Merge

FMP	Twelve Year Revenue
Small-Mesh Multispecies	\$6,841,000
Monkfish	\$3,979,000
No Federal FMP	\$3,770,000
Spiny Dogfish	\$3,331,000
Highly Migratory Species	\$2,707,000
Mackerel, Squid, and Butterfish	\$973,000
Skates	\$706,000
All Others	\$575,000
Jonah Crab	\$318,000
Bluefish	\$51,000
<b>Total</b>	<b>\$23,251,000</b>

Figure 2.3 Landings from Other Impacted FMPs, RHS 2 Cape Merge

### Landings from Other Impacted FMPs, RHS 2 Cape Merge

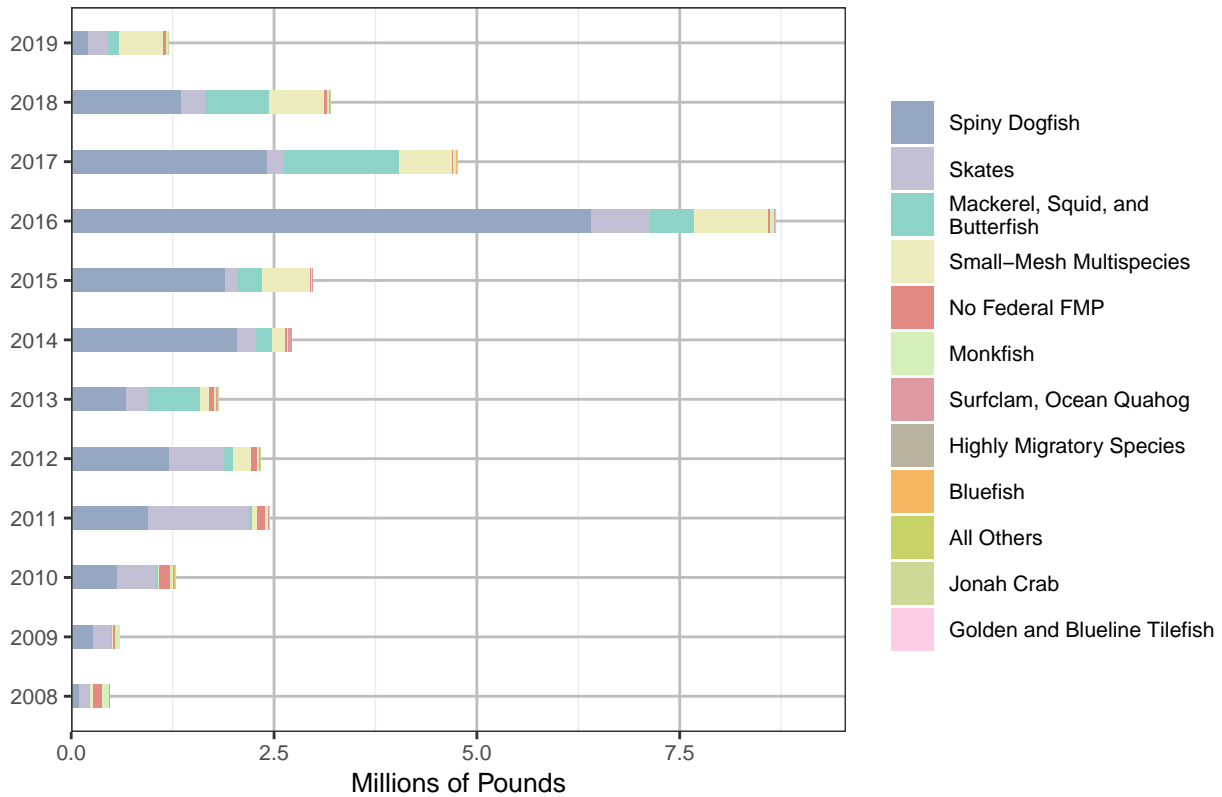


Table 12: Twelve Year Total Landings (Pounds), Other Impacted FMP, RHS 2 Cape Merge

FMP	Twelve Year Landings
Spiny Dogfish	18,054,000
Skates	4,851,000
Mackerel, Squid, and Butterfish	4,307,000
Small-Mesh Multispecies	3,923,000
No Federal FMP	626,000
Monkfish	514,000
Bluefish	65,000
Surfclam, Ocean Quahog	53,000
Highly Migratory Species	45,000
All Others	27,000
Jonah Crab	17,000
Golden and Blueline Tilefish	<500
<b>Total</b>	<b>32,482,000</b>

Figure 2.4 Revenue from Other Impacted FMPs, RHS 2 Cape Merge

### Revenue from Other Impacted FMPs, RHS 2 Cape Merge

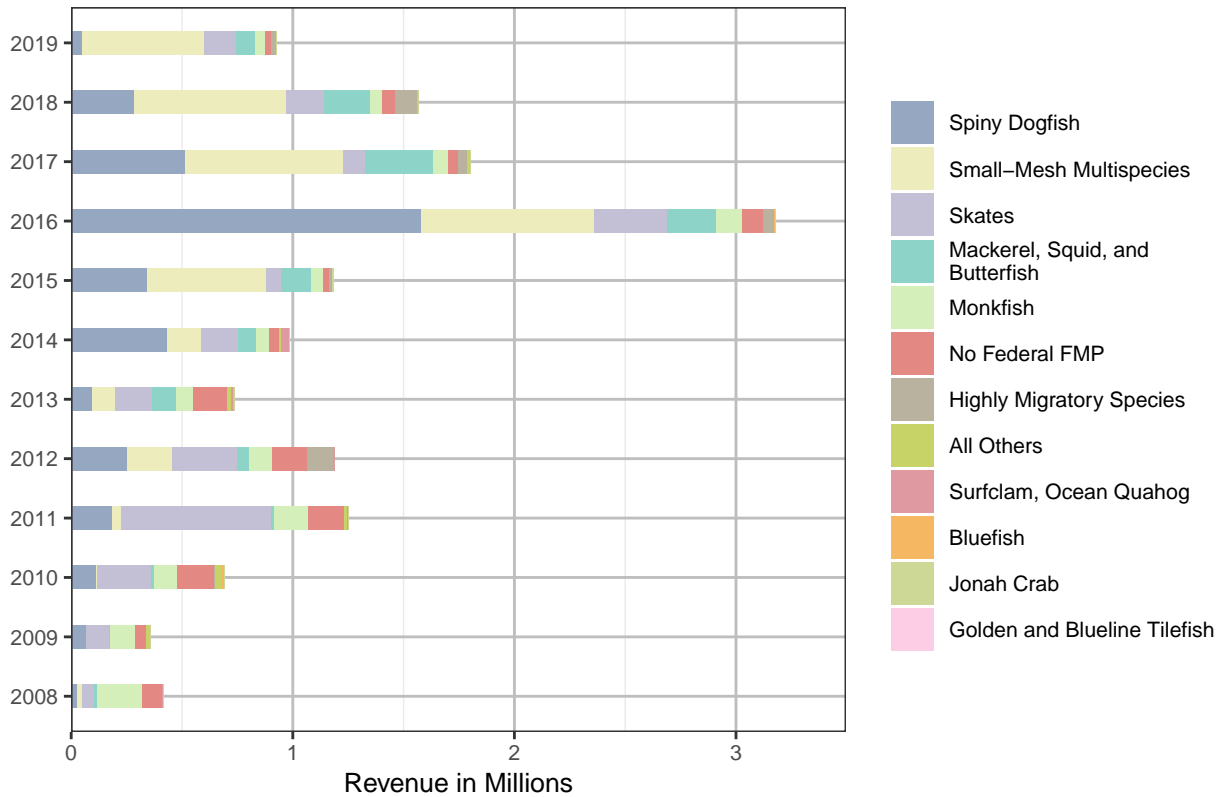


Table 13: Twelve Year Total Revenue for Other Impacted FMPs, RHS 2 Cape Merge

FMP	Twelve Year Revenue
Spiny Dogfish	\$3,908,000
Small-Mesh Multispecies	\$3,821,000
Skates	\$2,498,000
Mackerel, Squid, and Butterfish	\$1,284,000
Monkfish	\$1,157,000
No Federal FMP	\$1,054,000
Highly Migratory Species	\$340,000
All Others	\$112,000
Surfclam, Ocean Quahog	\$51,000
Bluefish	\$48,000
Jonah Crab	\$13,000
Golden and Blueline Tilefish	<\$500
<b>Total</b>	<b>\$14,288,000</b>

Figure 2.5 Landings from Other Impacted FMPs, RHS 3 RI Merge

### Landings from Other Impacted FMPs, RHS 3 RI Merge

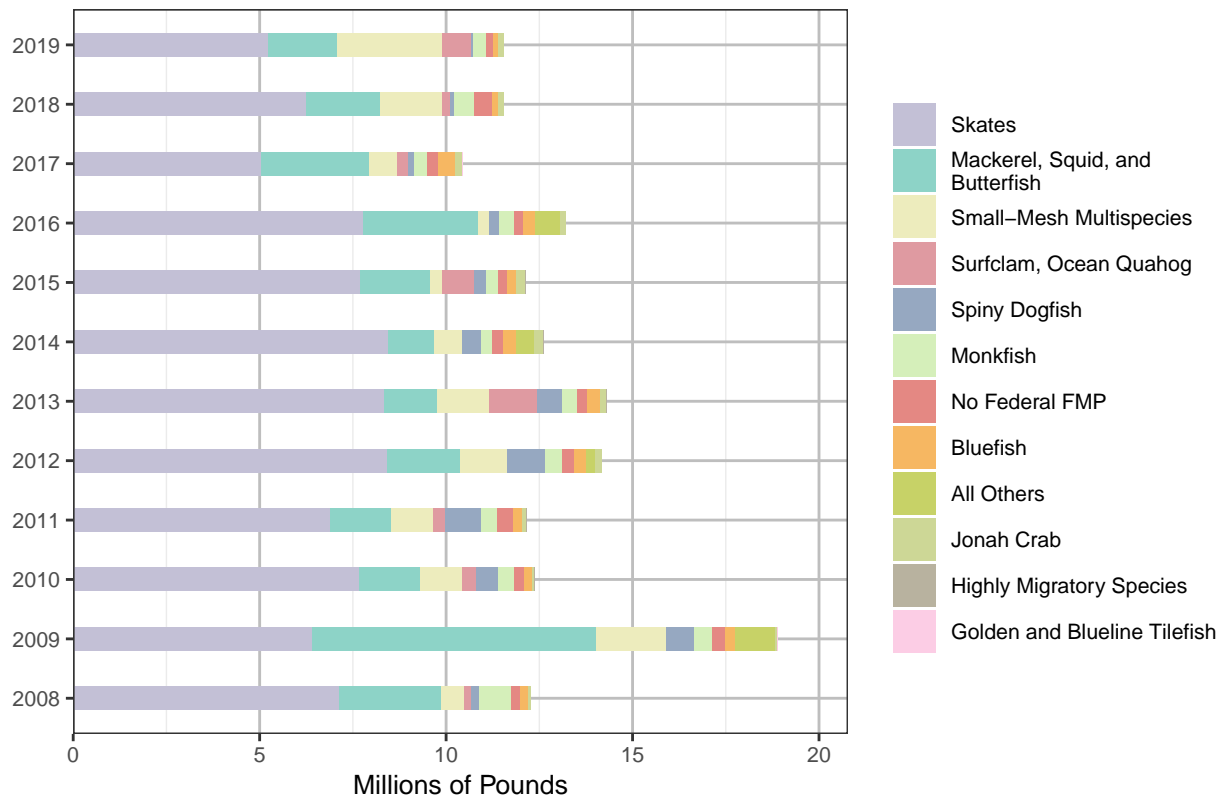


Table 14: Twelve Year Total Landings (Pounds), Other Impacted FMP, RHS 3 RI Merge

FMP	Twelve Year Landings
Skates	85,127,000
Mackerel, Squid, and Butterfish	30,118,000
Small-Mesh Multispecies	13,950,000
Spiny Dogfish	5,601,000
Monkfish	5,468,000
Surfclam, Ocean Quahog	4,212,000
No Federal FMP	3,461,000
Bluefish	3,443,000
All Others	2,522,000
Jonah Crab	1,606,000
Highly Migratory Species	68,000
Golden and Blueline Tilefish	58,000
<b>Total</b>	<b>155,634,000</b>

Figure 2.6 Revenue from Other Impacted FMPs, RHS 3 RI Merge

### Revenue from Other Impacted FMPs, RHS 3 RI Merge

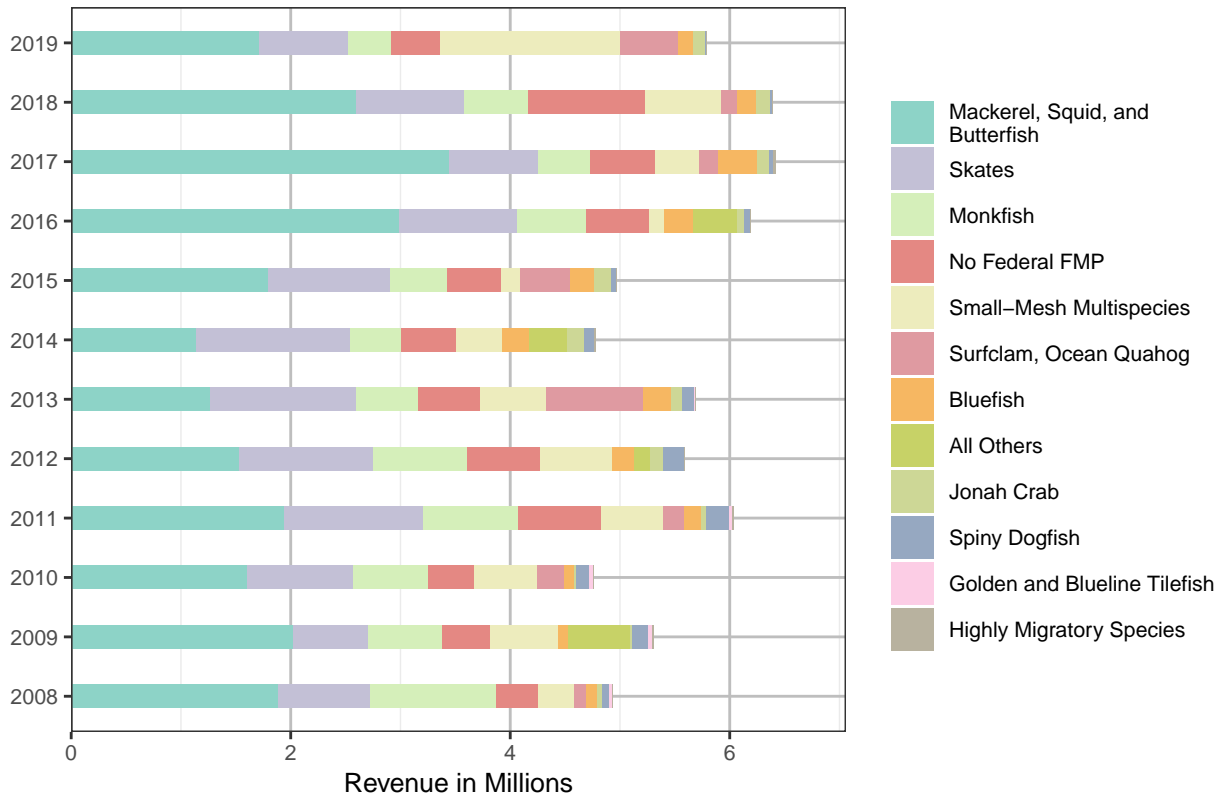


Table 15: Twelve Year Total Revenue for Other Impacted FMPs, RHS 3 RI Merge

FMP	Twelve Year Revenue
Mackerel, Squid, and Butterfish	\$23,948,000
Skates	\$12,452,000
Monkfish	\$7,888,000
No Federal FMP	\$6,916,000
Small-Mesh Multispecies	\$6,755,000
Surfclam, Ocean Quahog	\$2,701,000
Bluefish	\$2,333,000
All Others	\$1,477,000
Jonah Crab	\$1,081,000
Spiny Dogfish	\$1,033,000
Golden and Blueline Tilefish	\$165,000
Highly Migratory Species	\$108,000
<b>Total</b>	<b>\$66,856,000</b>

Figure 2.7 Landings from Other Impacted FMPs, RHS 4 NJ Merge

### Landings from Other Impacted FMPs, RHS 4 NJ Merge

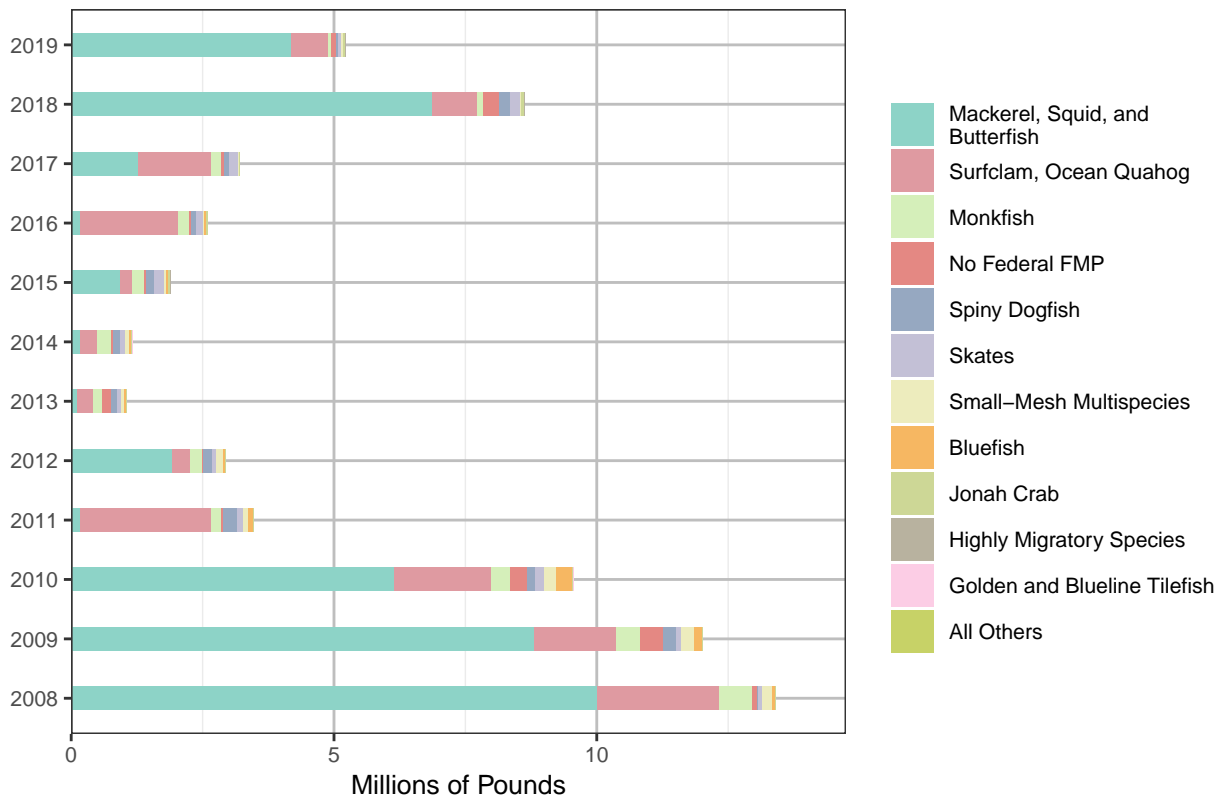


Table 16: Twelve Year Total Landings (Pounds), Other Impacted FMP, RHS 4 NJ Merge

FMP	Twelve Year Landings
Mackerel, Squid, and Butterfish	40,810,000
Surfclam, Ocean Quahog	14,105,000
Monkfish	3,200,000
No Federal FMP	1,671,000
Spiny Dogfish	1,578,000
Skates	1,552,000
Small-Mesh Multispecies	1,055,000
Bluefish	902,000
Jonah Crab	195,000
Highly Migratory Species	13,000
Golden and Blueline Tilefish	3,000
All Others	<500
<b>Total</b>	<b>65,085,000</b>

Figure 2.8 Revenue from Other Impacted FMPs, RHS 4 NJ Merge

### Revenue from Other Impacted FMPs, RHS 4 NJ Merge

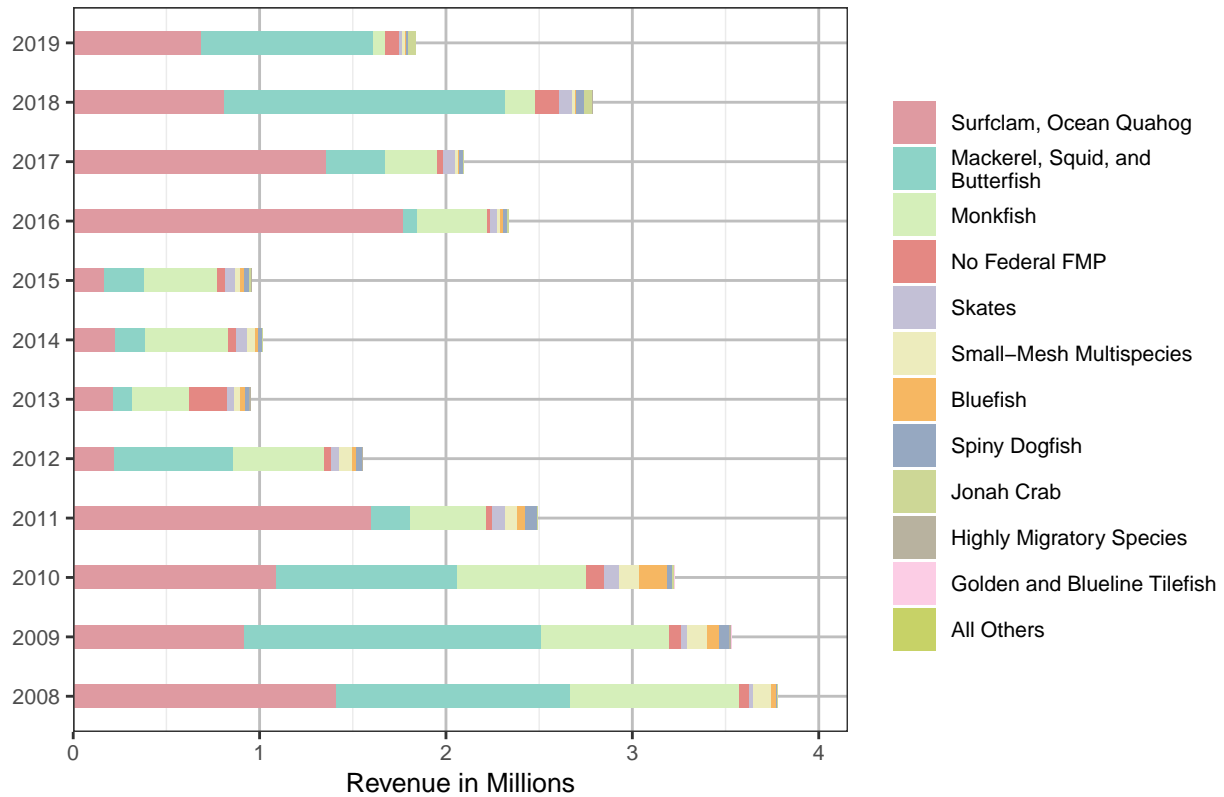


Table 17: Twelve Year Total Revenue for Other Impacted FMPs, RHS 4 NJ Merge

FMP	Twelve Year Revenue
Surfclam, Ocean Quahog	\$10,435,000
Mackerel, Squid, and Butterfish	\$8,005,000
Monkfish	\$5,200,000
No Federal FMP	\$828,000
Skates	\$587,000
Small-Mesh Multispecies	\$575,000
Bluefish	\$431,000
Spiny Dogfish	\$310,000
Jonah Crab	\$148,000
Highly Migratory Species	\$29,000
Golden and Blueline Tilefish	\$7,000
All Others	\$1,000
<b>Total</b>	<b>\$26,558,000</b>

### Summary

Table 18: Other Impacted FMPs Twelve Year Revenue and Landings

Area	Twelve Year Revenue	Twelve Year Landings (Pounds)
RHS 1 NHMA Merge	\$ 23,251,000	38,369,000



Area	Twelve Year Revenue	Twelve Year Landings (Pounds)
RHS 2 Cape Merge	\$ 14,288,000	32,482,000
RHS 3 RI Merge	\$ 66,856,000	155,634,000
RHS 4 NJ Merge	\$ 26,558,000	65,085,000
<b>Total</b>	<b>\$130,953,000</b>	<b>291,570,000</b>

### Most Impacted Species

We analyzed the top 10 species due to their economic importance in the area and to isolate them from combined FMPs. The top 10 species by revenue are: Sea Scallop, American Lobster, Atlantic Herring, Cod, Summer Flounder, Longfin Squid, Monkfish, Scup, Silver Hake and Skates . The category “All Others” refers to species with less than three permits or dealers impacted to protect data confidentiality. Revenue values have been deflated to 2019 dollars. All numbers have been rounded to the nearest thousand.

Figure 3.1 Landings of Top Species, RHS 1 NHMA Merge

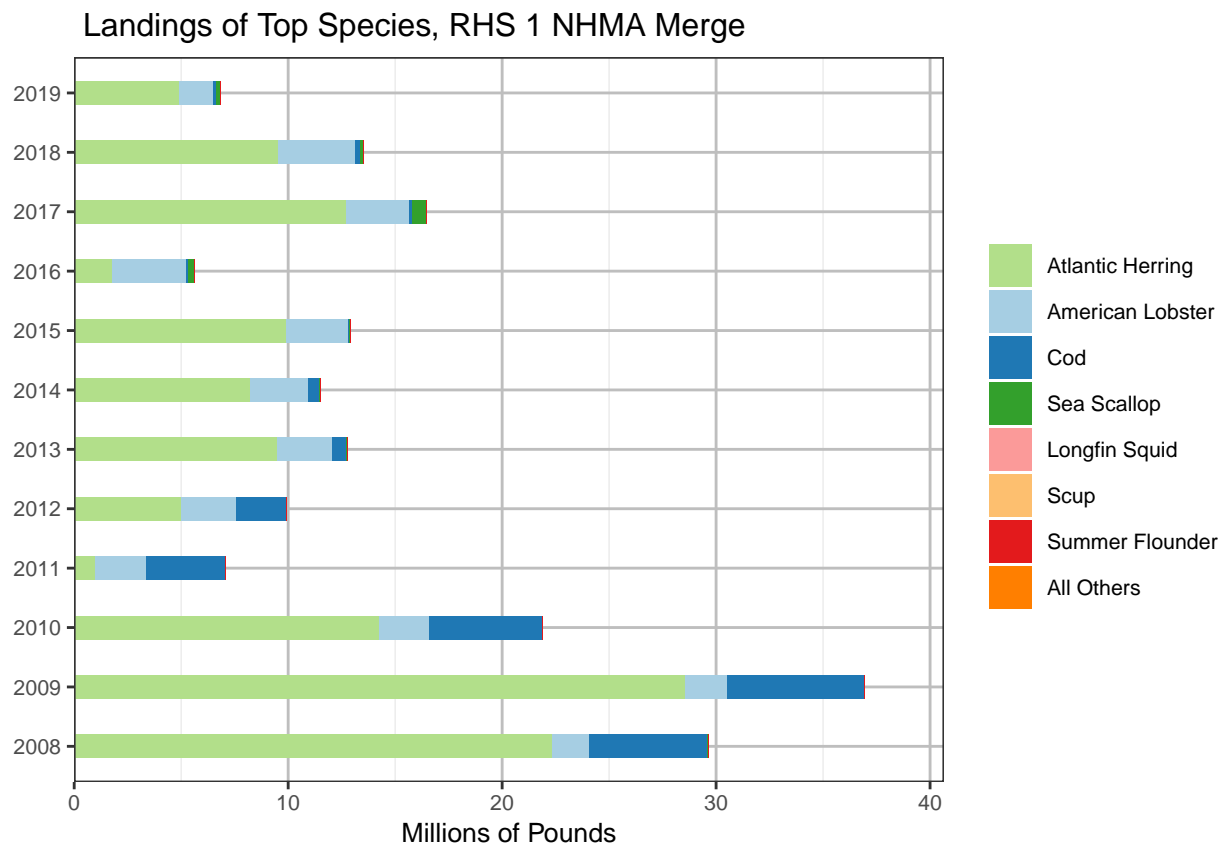


Table 19: Twelve Year Total Landings (Pounds), Most Impacted Species, RHS 1 NHMA Merge

Species	Twelve Year Landings
Atlantic Herring	127,470,000
American Lobster	30,951,000
Cod	25,189,000
Sea Scallop	1,432,000
Longfin Squid	59,000

Species	Twelve Year Landings
Scup	3,000
Summer Flounder	2,000
All Others	<500
<b>Total</b>	<b>185,107,000</b>

Figure 3.2 Revenue from Most Impacted Species, RHS 1 NHMA Merge

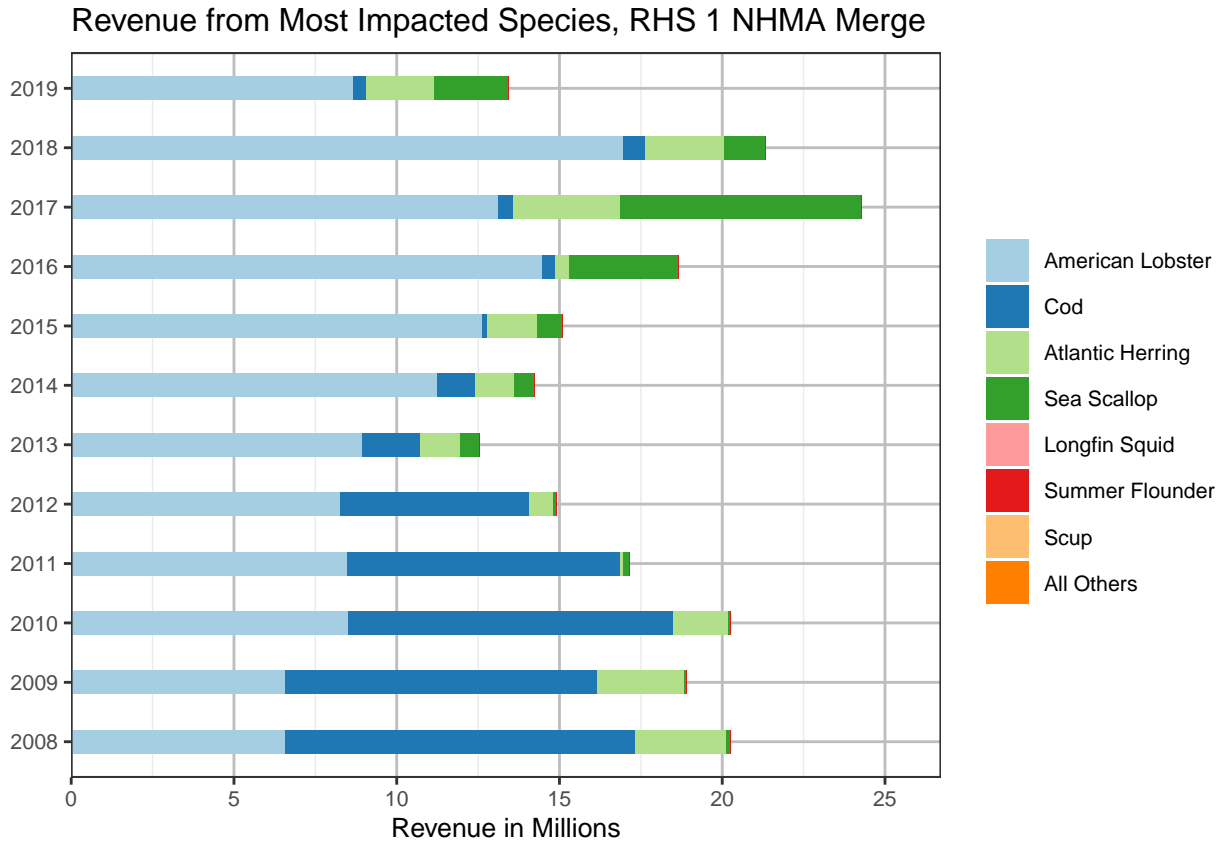


Table 20: Twelve Year Total Revenue, Most Impacted Species, RHS 1 NHMA Merge

Species	Twelve Year Revenue
American Lobster	\$124,370,000
Cod	\$49,429,000
Atlantic Herring	\$20,423,000
Sea Scallop	\$16,784,000
Longfin Squid	\$60,000
Summer Flounder	\$6,000
Scup	\$2,000
All Others	<\$500
<b>Total</b>	<b>\$211,074,000</b>

Figure 3.3 Landings of Top Species, RHS 2 Cape Merge

Landings of Top Species, RHS 2 Cape Merge

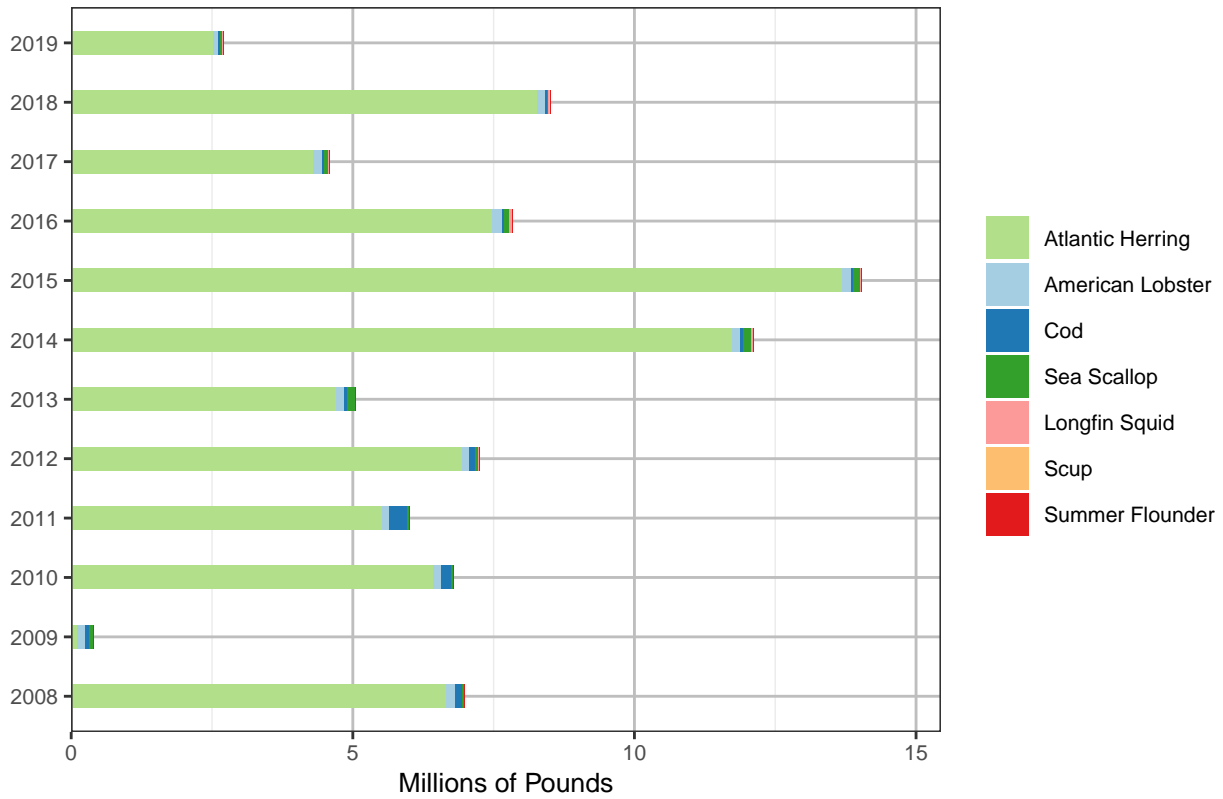


Table 21: Twelve Year Total Landings (Pounds), Most Impacted Species, RHS 2 Cape Merge

Species	Twelve Year Landings
Atlantic Herring	78,262,000
American Lobster	1,857,000
Cod	1,001,000
Sea Scallop	796,000
Longfin Squid	308,000
Scup	14,000
Summer Flounder	9,000
<b>Total</b>	<b>82,246,000</b>

Figure 3.4 Revenue from Most Impacted Species, RHS 2 Cape Merge

### Revenue from Most Impacted Species, RHS 2 Cape Merge

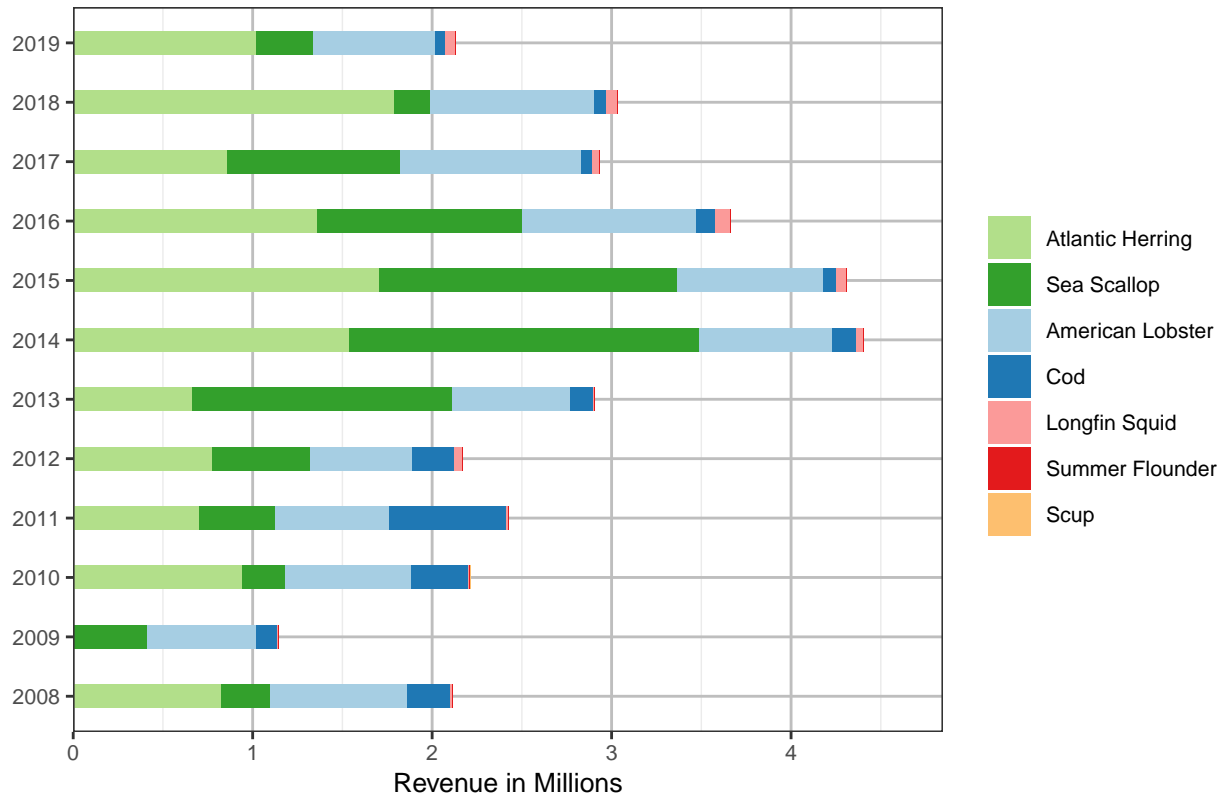


Table 22: Twelve Year Total Revenue, Most Impacted Species, RHS 2 Cape Merge

Species	Twelve Year Revenue
Atlantic Herring	\$12,181,000
Sea Scallop	\$9,544,000
American Lobster	\$9,099,000
Cod	\$2,174,000
Longfin Squid	\$419,000
Summer Flounder	\$29,000
Scup	\$7,000
<b>Total</b>	<b>\$33,453,000</b>

Figure 3.5 Landings of Top Species, RHS 3 RI Merge

Landings of Top Species, RHS 3 RI Merge

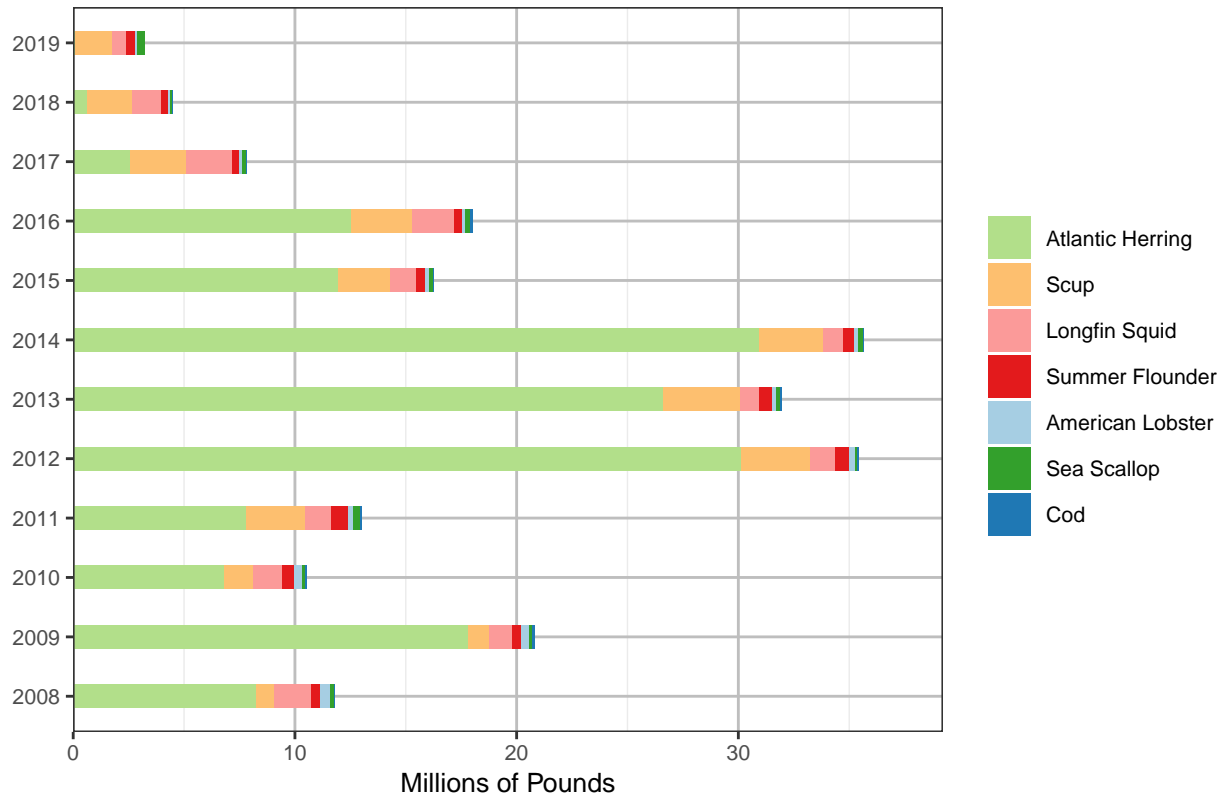


Table 23: Twelve Year Total Landings (Pounds), Most Impacted Species, RHS 3 RI Merge

Species	Twelve Year Landings
Atlantic Herring	156,153,000
Scup	26,285,000
Longfin Squid	15,457,000
Summer Flounder	5,372,000
American Lobster	2,778,000
Sea Scallop	1,972,000
Cod	1,026,000
<b>Total</b>	<b>209,043,000</b>

Figure 3.6 Revenue from Most Impacted Species, RHS 3 RI Merge

Revenue from Most Impacted Species, RHS 3 RI Merge

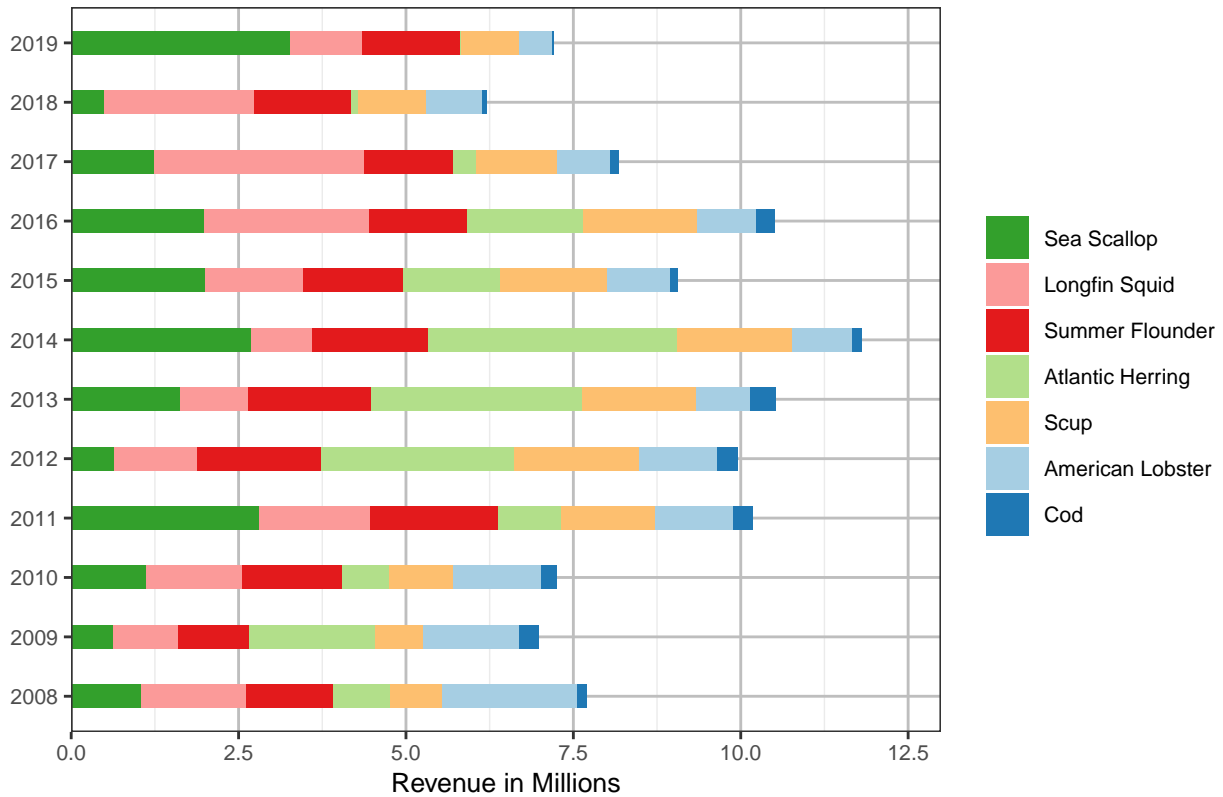


Table 24: Twelve Year Total Revenue, Most Impacted Species, RHS 3 RI Merge

Species	Twelve Year Revenue
Sea Scallop	\$19,465,000
Longfin Squid	\$19,276,000
Summer Flounder	\$18,292,000
Atlantic Herring	\$17,871,000
Scup	\$15,442,000
American Lobster	\$12,791,000
Cod	\$2,418,000
<b>Total</b>	<b>\$105,555,000</b>

Figure 3.7 Landings of Top Species, RHS 4 NJ Merge

Landings of Top Species, RHS 4 NJ Merge

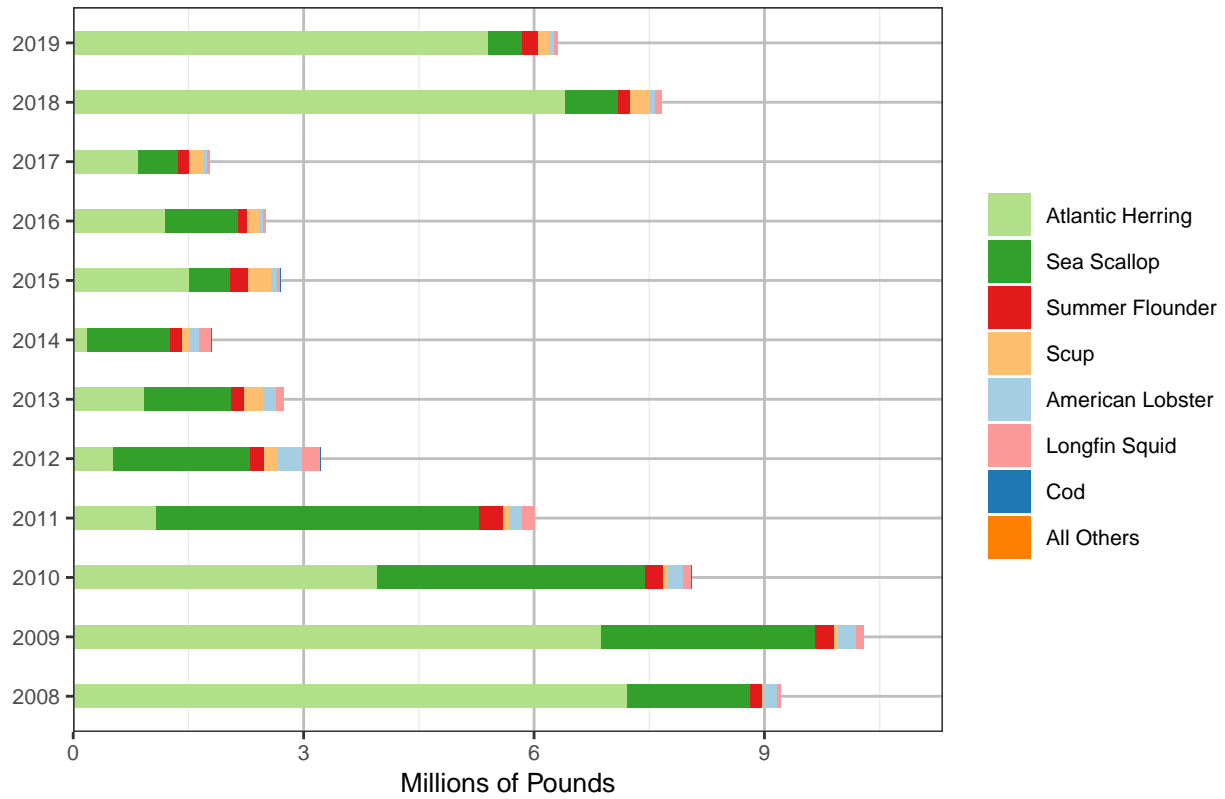


Table 25: Twelve Year Total Landings (Pounds), Most Impacted Species, RHS 4 NJ Merge

Species	Twelve Year Landings
Atlantic Herring	36,117,000
Sea Scallop	19,231,000
Summer Flounder	2,234,000
Scup	1,777,000
American Lobster	1,768,000
Longfin Squid	1,098,000
Cod	1,000
All Others	<500
<b>Total</b>	<b>62,226,000</b>

Figure 3.8 Revenue from Most Impacted Species, RHS 4 NJ Merge

### Revenue from Most Impacted Species, RHS 4 NJ Merge

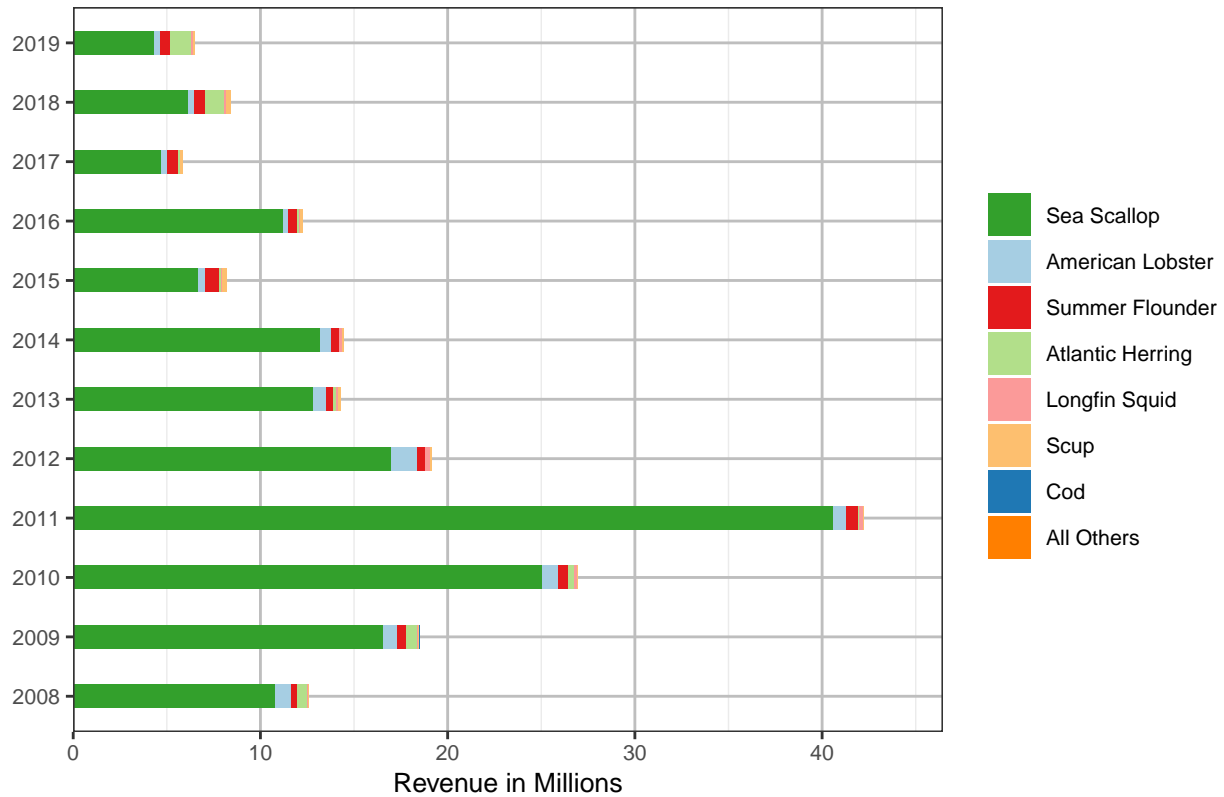


Table 26: Twelve Year Total Revenue, Most Impacted Species, RHS 4 NJ Merge

Species	Twelve Year Revenue
Sea Scallop	\$168,754,000
American Lobster	\$7,663,000
Summer Flounder	\$5,831,000
Atlantic Herring	\$4,505,000
Longfin Squid	\$1,281,000
Scup	\$1,242,000
Cod	\$4,000
All Others	<\$500
<b>Total</b>	<b>\$189,280,000</b>

### Summary

Table 27: Most Impacted Species Twelve Year Revenue and Landings

Area	Twelve Year Revenue	Twelve Year Landings (Pounds)
RHS 1 NHMA Merge	\$211,074,000	185,107,000
RHS 2 Cape Merge	\$ 33,453,000	82,246,000
RHS 3 RI Merge	\$105,555,000	209,043,000
RHS 4 NJ Merge	\$189,280,000	62,226,000



Area	Twelve Year Revenue	Twelve Year Landings (Pounds)
<b>Total</b>	<b>\$539,362,000</b>	<b>538,622,000</b>

### Select Gear Types

We analyzed select gear types to better understand the type of fishing occurring in these areas . The select gear types are: Dredge-Other, Dredge-Clam, Dredge-Scallop, Gillnet-Sink, Gillnet-Other, Weir-Trap, Seine-Purse, Seine-Other, Handline, Hand-Other, Trawl-Bottom, Trawl-Midwater, Longline-Bottom, Longline-Pelagic, Pot-Other, and Pot-Lobster. The category “All Others” refers to species with less than three permits or dealers impacted to protect data confidentiality. Revenue values have been deflated to 2019 dollars. All numbers have been rounded to the nearest thousand.

Figure 4.1 Landings of Select Gear Types, RHS 1 NHMA Merge

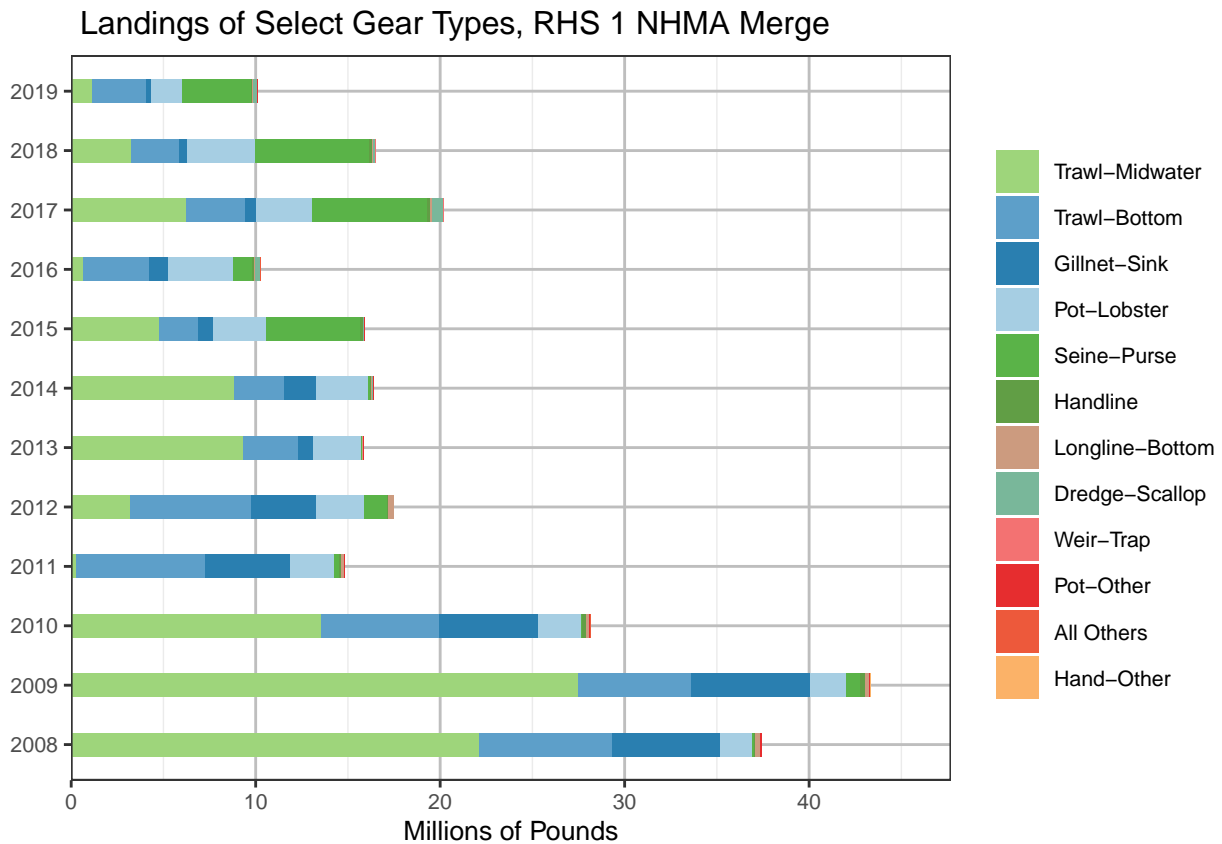


Table 28: Twelve Year Total Landings (Pounds), Select Gear Types, RHS 1 NHMA Merge

Gear Type	Twelve Year Landings
Trawl-Midwater	100,483,000
Trawl-Bottom	53,360,000
Gillnet-Sink	31,926,000
Pot-Lobster	31,211,000
Seine-Purse	24,621,000
Handline	1,649,000
Dredge-Scallop	1,424,000

Gear Type	Twelve Year Landings
Longline-Bottom	1,313,000
Pot-Other	204,000
All Others	204,000
Weir-Trap	89,000
Hand-Other	4,000
<b>Total</b>	<b>246,487,000</b>

Figure 4.2 Revenue from Select Gear Types, RHS 1 NHMA Merge

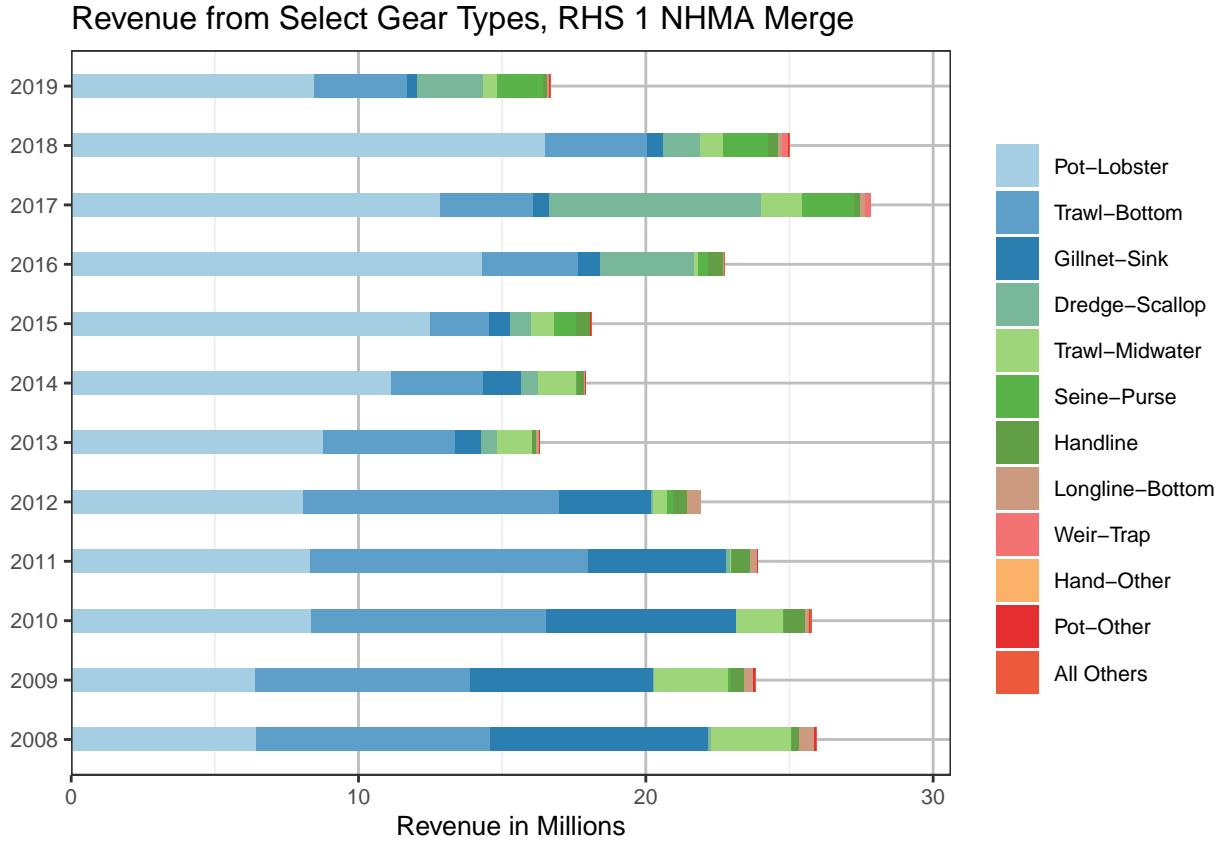


Table 29: Twelve Year Total Revenue, Select Gear Types, RHS 1 NHMA Merge

Gear Type	Twelve Year Revenue
Pot-Lobster	\$122,141,000
Trawl-Bottom	\$65,368,000
Gillnet-Sink	\$33,792,000
Dredge-Scallop	\$16,686,000
Trawl-Midwater	\$13,542,000
Seine-Purse	\$6,443,000
Handline	\$4,917,000
Longline-Bottom	\$2,190,000
Weir-Trap	\$385,000
Pot-Other	\$205,000
All Others	\$194,000

Gear Type	Twelve Year Revenue
Hand-Other	\$27,000
<b>Total</b>	<b>\$265,892,000</b>

Figure 4.3 Landings of Select Gear Types, RHS 2 Cape Merge

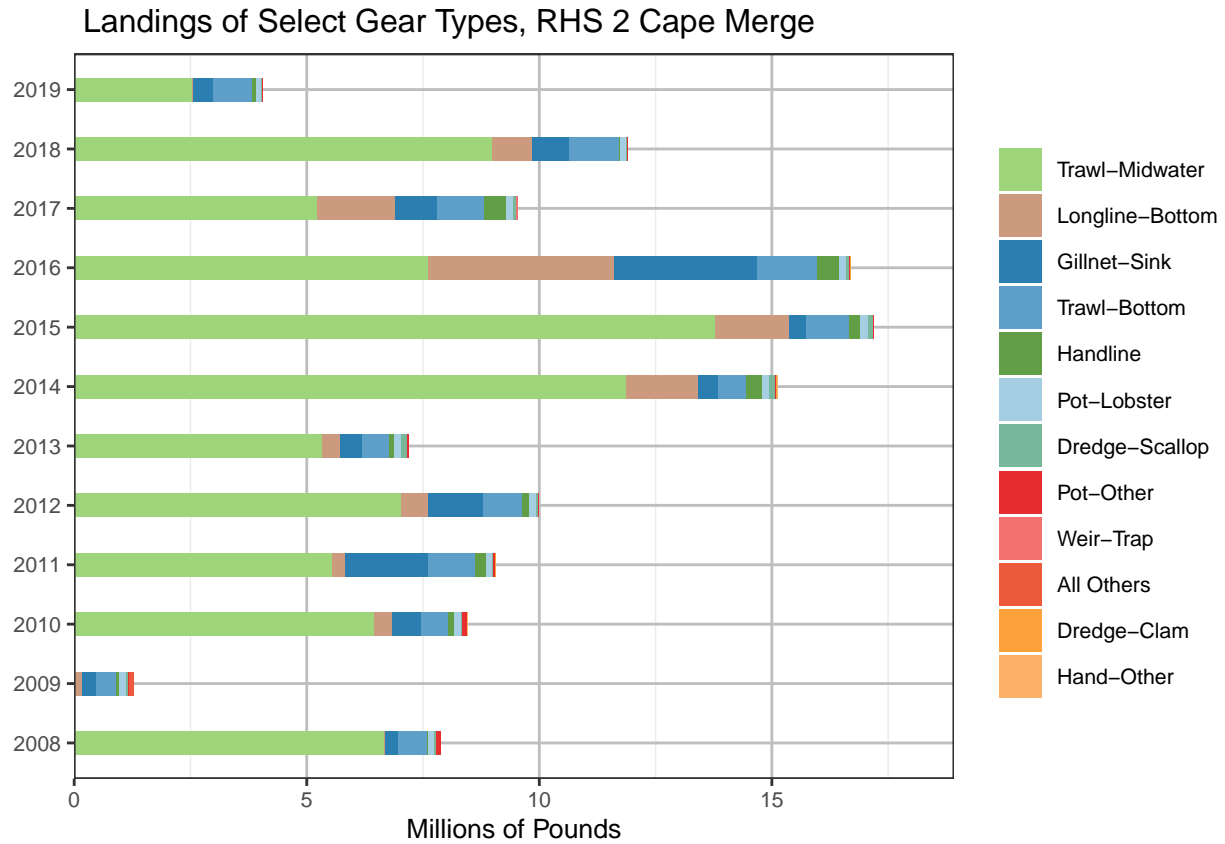


Table 30: Twelve Year Total Landings (Pounds), Select Gear Types, RHS 2 Cape Merge

Gear Type	Twelve Year Landings
Trawl-Midwater	80,928,000
Longline-Bottom	11,495,000
Gillnet-Sink	10,783,000
Trawl-Bottom	9,658,000
Handline	2,508,000
Pot-Lobster	1,585,000
Dredge-Scallop	802,000
Pot-Other	354,000
All Others	155,000
Dredge-Clam	56,000
Weir-Trap	23,000
Hand-Other	7,000
<b>Total</b>	<b>118,355,000</b>

Figure 4.4 Revenue from Select Gear Types, RHS 2 Cape Merge

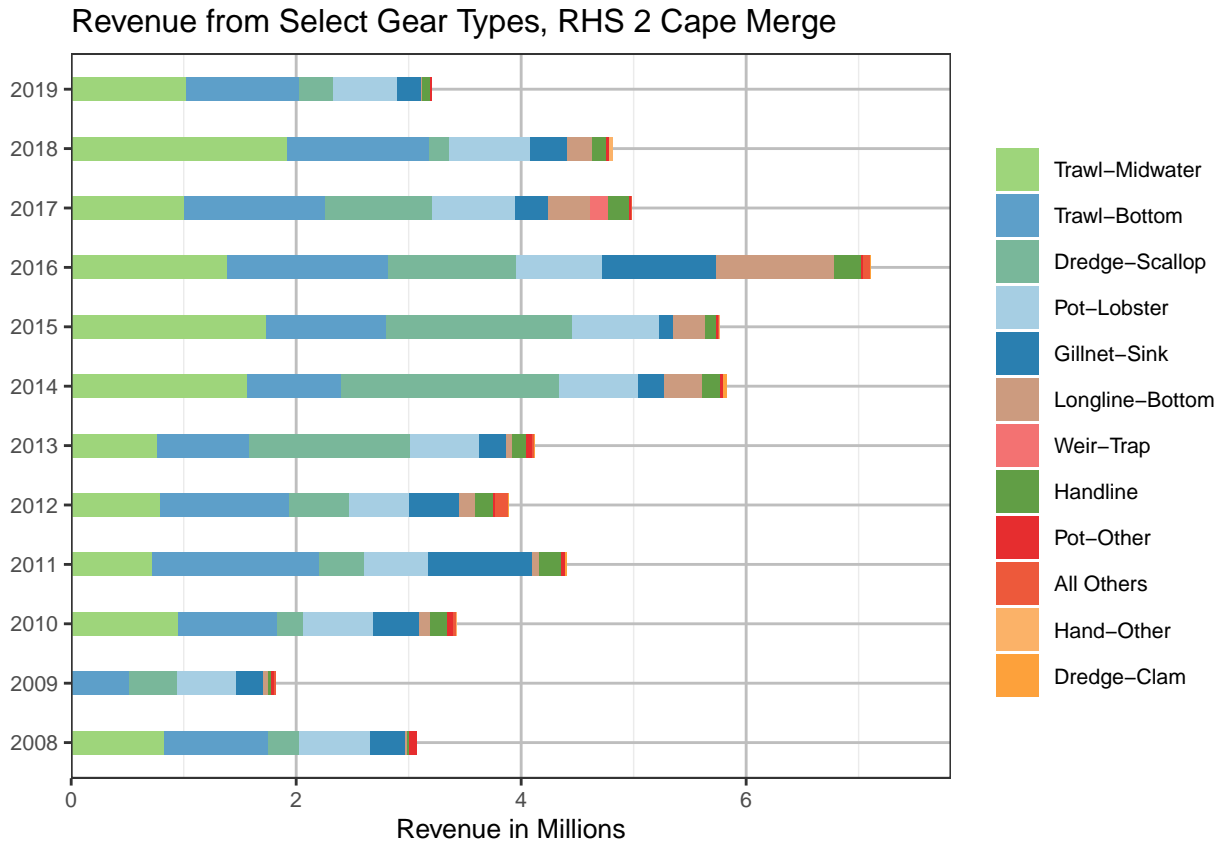


Table 31: Twelve Year Total Revenue, Select Gear Types, RHS 2 Cape Merge

Gear Type	Twelve Year Revenue
Trawl-Midwater	\$12,635,000
Trawl-Bottom	\$12,596,000
Dredge-Scallop	\$9,525,000
Pot-Lobster	\$7,732,000
Gillnet-Sink	\$4,810,000
Longline-Bottom	\$2,662,000
Handline	\$1,595,000
Pot-Other	\$318,000
All Others	\$295,000
Weir-Trap	\$153,000
Dredge-Clam	\$72,000
Hand-Other	\$49,000
<b>Total</b>	<b>\$52,441,000</b>

Figure 4.5 Landings of Select Gear Types, RHS 3 RI Merge

### Landings of Select Gear Types, RHS 3 RI Merge

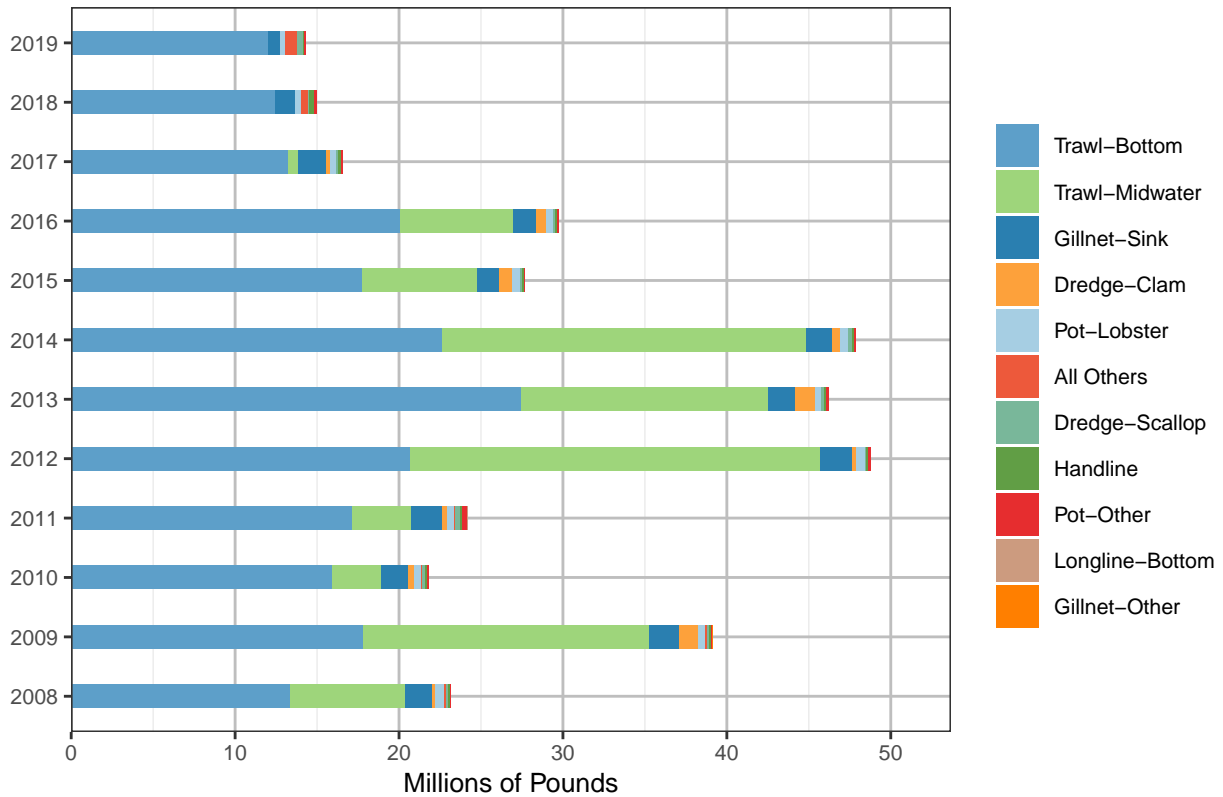


Table 32: Twelve Year Total Landings (Pounds), Select Gear Types, RHS 3 RI Merge

Gear Type	Twelve Year Landings
Trawl-Bottom	210,503,000
Trawl-Midwater	107,656,000
Gillnet-Sink	18,494,000
Dredge-Clam	5,840,000
Pot-Lobster	4,861,000
Dredge-Scallop	1,988,000
All Others	1,908,000
Handline	1,811,000
Pot-Other	1,170,000
Longline-Bottom	59,000
Gillnet-Other	33,000
<b>Total</b>	<b>354,324,000</b>

Figure 4.6 Revenue from Select Gear Types, RHS 3 RI Merge

### Revenue from Select Gear Types, RHS 3 RI Merge

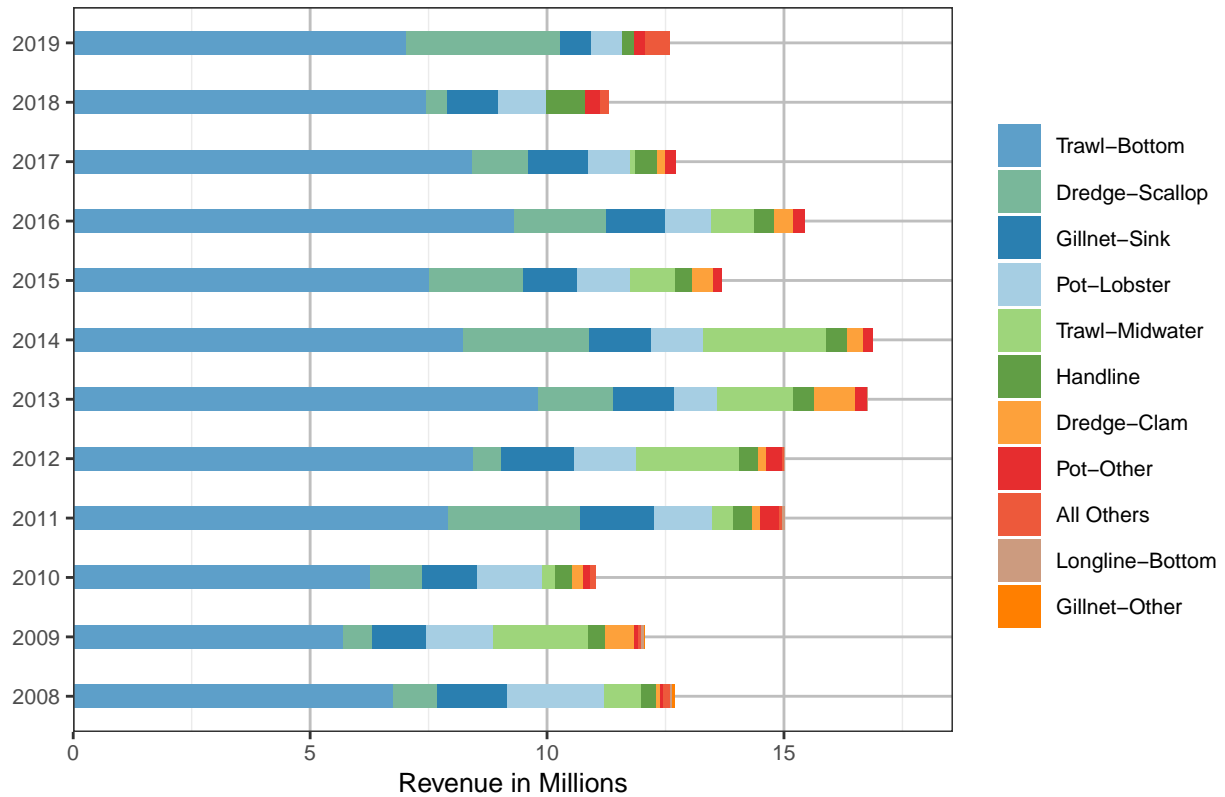


Table 33: Twelve Year Total Revenue, Select Gear Types, RHS 3 RI Merge

Gear Type	Twelve Year Revenue
Trawl-Bottom	\$92,690,000
Dredge-Scallop	\$19,235,000
Gillnet-Sink	\$14,766,000
Pot-Lobster	\$14,068,000
Trawl-Midwater	\$11,713,000
Handline	\$5,054,000
Dredge-Clam	\$3,591,000
Pot-Other	\$2,590,000
All Others	\$1,252,000
Longline-Bottom	\$157,000
Gillnet-Other	\$65,000
<b>Total</b>	<b>\$165,181,000</b>

Figure 4.7 Landings of Select Gear Types, RHS 4 NJ Merge

### Landings of Select Gear Types, RHS 4 NJ Merge

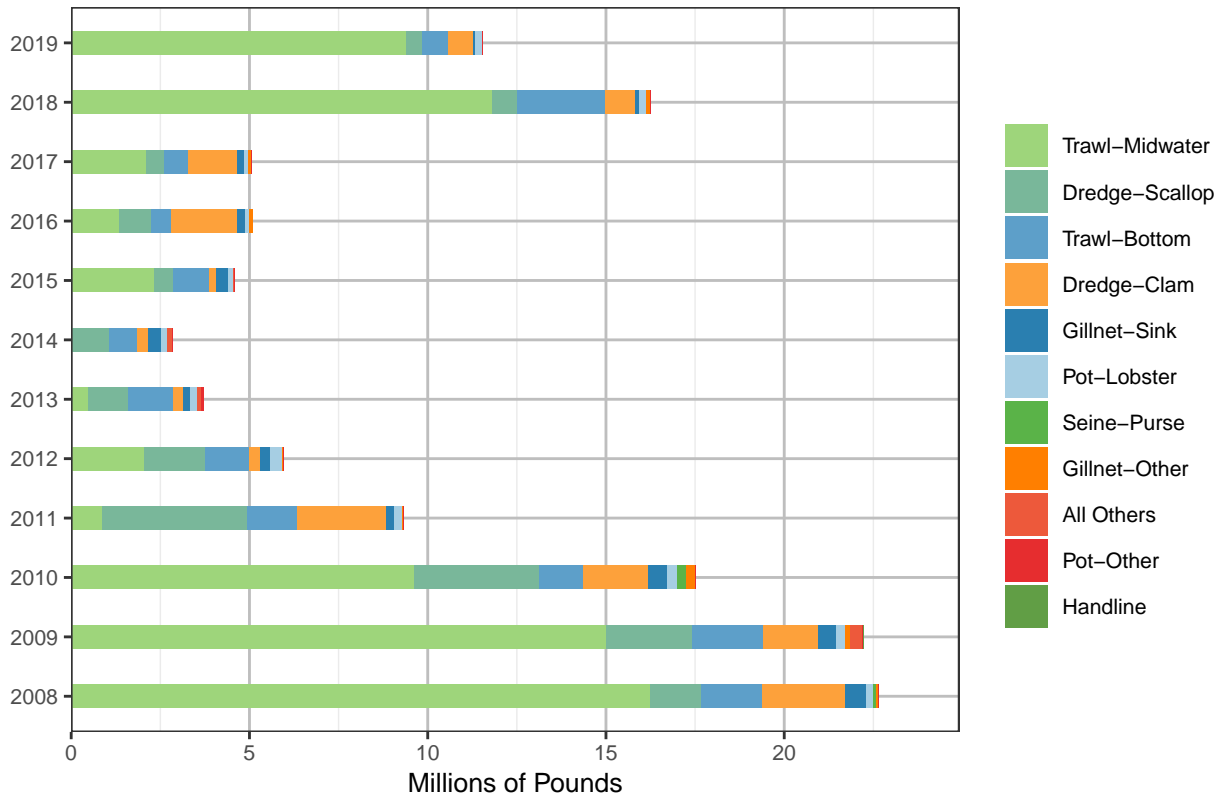


Table 34: Twelve Year Total Landings (Pounds), Select Gear Types, RHS 4 NJ Merge

Gear Type	Twelve Year Landings
Trawl-Midwater	71,103,000
Dredge-Scallop	18,576,000
Trawl-Bottom	14,919,000
Dredge-Clam	14,135,000
Gillnet-Sink	3,708,000
Pot-Lobster	2,272,000
Gillnet-Other	866,000
All Others	706,000
Seine-Purse	294,000
Pot-Other	114,000
Handline	5,000
<b>Total</b>	<b>126,698,000</b>

Figure 4.8 Revenue from Select Gear Types, RHS 4 NJ Merge

### Revenue from Select Gear Types, RHS 4 NJ Merge

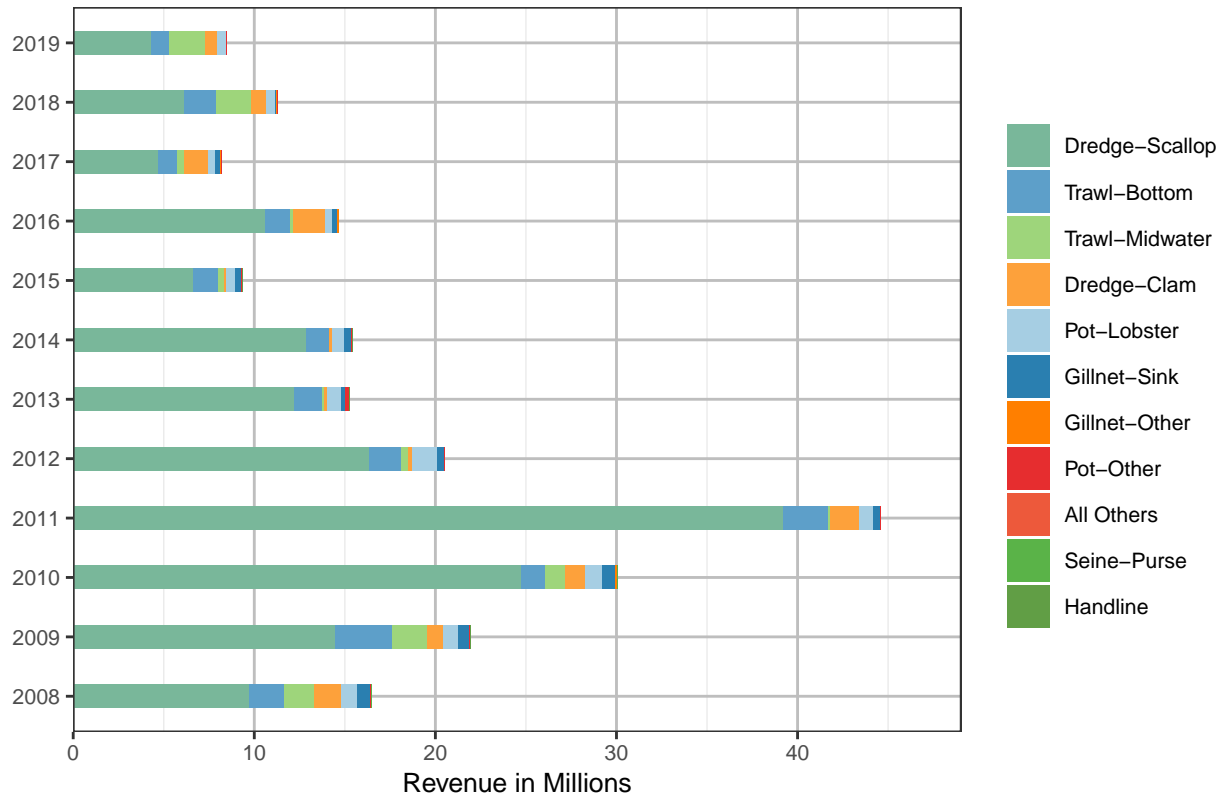


Table 35: Twelve Year Total Revenue, Select Gear Types, RHS 4 NJ Merge

Gear Type	Twelve Year Revenue
Dredge-Scallop	\$161,826,000
Trawl-Bottom	\$20,164,000
Dredge-Clam	\$10,646,000
Trawl-Midwater	\$9,856,000
Pot-Lobster	\$8,081,000
Gillnet-Sink	\$4,508,000
Gillnet-Other	\$609,000
Pot-Other	\$231,000
All Others	\$154,000
Seine-Purse	\$25,000
Handline	\$14,000
<b>Total</b>	<b>\$216,114,000</b>

### Summary

Table 36: Select Gear Types Twelve Year Revenue and Landings

Area	Twelve Year Revenue	Twelve Year Landings (Pounds)
RHS 1 NHMA Merge	\$265,892,000	246,487,000
RHS 2 Cape Merge	\$ 52,441,000	118,355,000



Area	Twelve Year Revenue	Twelve Year Landings (Pounds)
RHS 3 RI Merge	\$165,181,000	354,324,000
RHS 4 NJ Merge	\$216,114,000	126,698,000
<b>Total</b>	<b>\$699,628,000</b>	<b>845,864,000</b>

## Totals

The following tables display the given year total revenue and total landed pounds of all species by all gear types within each area. RHS 1 NHMA Merge totals the most pounds landed, 354.324 million. RHS 1 NHMA Merge totals the most revenue derived from within an area, \$265.892 million. All numbers have been rounded to the nearest thousand.

Table 37: Twelve Year Total Revenue and Landings (Pounds), RHS 1 NHMA Merge

Year	Revenue	Landings
2008	\$25,924,000	37,445,000
2009	\$23,829,000	43,350,000
2010	\$25,767,000	28,152,000
2011	\$23,911,000	14,844,000
2012	\$21,909,000	17,501,000
2013	\$16,294,000	15,851,000
2014	\$17,911,000	16,388,000
2015	\$18,101,000	15,913,000
2016	\$22,741,000	10,241,000
2017	\$27,835,000	20,194,000
2018	\$24,994,000	16,518,000
2019	\$16,675,000	10,089,000
<b>Total</b>	<b>\$265,892,000</b>	<b>246,487,000</b>

Table 38: Twelve Year Total Revenue and Landings (Pounds), RHS 2 Cape Merge

Year	Revenue	Landings
2008	\$3,074,000	7,886,000
2009	\$1,821,000	1,274,000
2010	\$3,425,000	8,467,000
2011	\$4,402,000	9,056,000
2012	\$3,889,000	9,994,000
2013	\$4,119,000	7,193,000
2014	\$5,827,000	15,122,000
2015	\$5,764,000	17,194,000
2016	\$7,109,000	16,682,000
2017	\$4,988,000	9,541,000
2018	\$4,818,000	11,902,000
2019	\$3,205,000	4,044,000
<b>Total</b>	<b>\$52,441,000</b>	<b>118,355,000</b>

Table 39: Twelve Year Total Revenue and Landings (Pounds), RHS  
3 RI Merge

Year	Revenue	Landings
2008	\$12,683,000	23,173,000
2009	\$12,062,000	39,114,000
2010	\$11,027,000	21,794,000
2011	\$15,008,000	24,166,000
2012	\$15,013,000	48,790,000
2013	\$16,763,000	46,192,000
2014	\$16,877,000	47,838,000
2015	\$13,693,000	27,711,000
2016	\$15,434,000	29,753,000
2017	\$12,718,000	16,536,000
2018	\$11,304,000	14,957,000
2019	\$12,598,000	14,299,000
<b>Total</b>	<b>\$165,181,000</b>	<b>354,324,000</b>

Table 40: Twelve Year Total Revenue and Landings (Pounds), RHS  
4 NJ Merge

Year	Revenue	Landings
2008	\$16,459,000	22,644,000
2009	\$21,934,000	22,210,000
2010	\$30,071,000	17,505,000
2011	\$44,579,000	9,330,000
2012	\$20,527,000	5,947,000
2013	\$15,238,000	3,721,000
2014	\$15,399,000	2,830,000
2015	\$9,330,000	4,591,000
2016	\$14,652,000	5,085,000
2017	\$8,166,000	5,066,000
2018	\$11,307,000	16,240,000
2019	\$8,450,000	11,529,000
<b>Total</b>	<b>\$216,114,000</b>	<b>126,698,000</b>

Table 41: Twelve Year Total Revenue and Landings, All Areas

Year	Revenue	Landings (Pounds)
2008	\$58,141,000	91,147,000
2009	\$59,646,000	105,947,000
2010	\$70,291,000	75,918,000
2011	\$87,900,000	57,396,000
2012	\$61,338,000	82,232,000
2013	\$52,414,000	72,958,000
2014	\$56,015,000	82,179,000
2015	\$46,888,000	65,410,000
2016	\$59,936,000	61,761,000
2017	\$53,707,000	51,336,000
2018	\$52,423,000	59,618,000

Year	Revenue	Landings (Pounds)
2019	\$40,929,000	39,961,000
<b>Total</b>	<b>\$699,628,000</b>	<b>845,864,000</b>

### Revenue by Port

The ten most impacted (by revenue) ports are listed below. These ports are estimated to receive the most landings from fishing done within the River Herring and Shad areas. The table below displays each port's landings breakdown by area. Both tables present the cumulative revenues from 2008-2019. Gloucester receives the highest value of landings of any port, with \$147.002 million from 2008-2019. All numbers have been rounded to the nearest thousand.

Table 42: Most Impacted Ports, by Landings Revenues

City	State	Twelve Year Revenue
Gloucester	MA	\$147,002,000
Point Judith	RI	\$95,343,000
New Bedford	MA	\$85,961,000
Point Pleasant	NJ	\$65,174,000
Cape May	NJ	\$32,911,000
Portsmouth	NH	\$21,974,000
Barnegat	NJ	\$20,909,000
Rockport	MA	\$16,222,000
Chatham	MA	\$15,795,000
Montauk	NY	\$15,413,000

Table 43: Landings by Area

Port	Rhs 4 Nj Merge	Rhs 2 Cape Merge	Rhs 3 Ri Merge	Rhs 1 Nhma Merge
Gloucester, MA	\$1,694,000	\$11,046,000	\$946,000	\$133,315,000
Point Judith, RI	\$1,338,000	\$434,000	\$93,331,000	\$240,000
New Bedford, MA	\$45,360,000	\$10,034,000	\$21,477,000	\$9,091,000
Point Pleasant, NJ	\$64,217,000	\$1,000	\$956,000	NA
Cape May, NJ	\$32,412,000	\$6,000	\$492,000	NA
Portsmouth, NH	NA	\$17,000	NA	\$21,957,000
Barnegat, NJ	\$20,909,000	NA	NA	NA
Rockport, MA	NA	\$3,000	NA	\$16,219,000
Chatham, MA	NA	\$15,709,000	\$15,000	\$71,000
Montauk, NY	\$678,000	\$31,000	\$14,703,000	NA

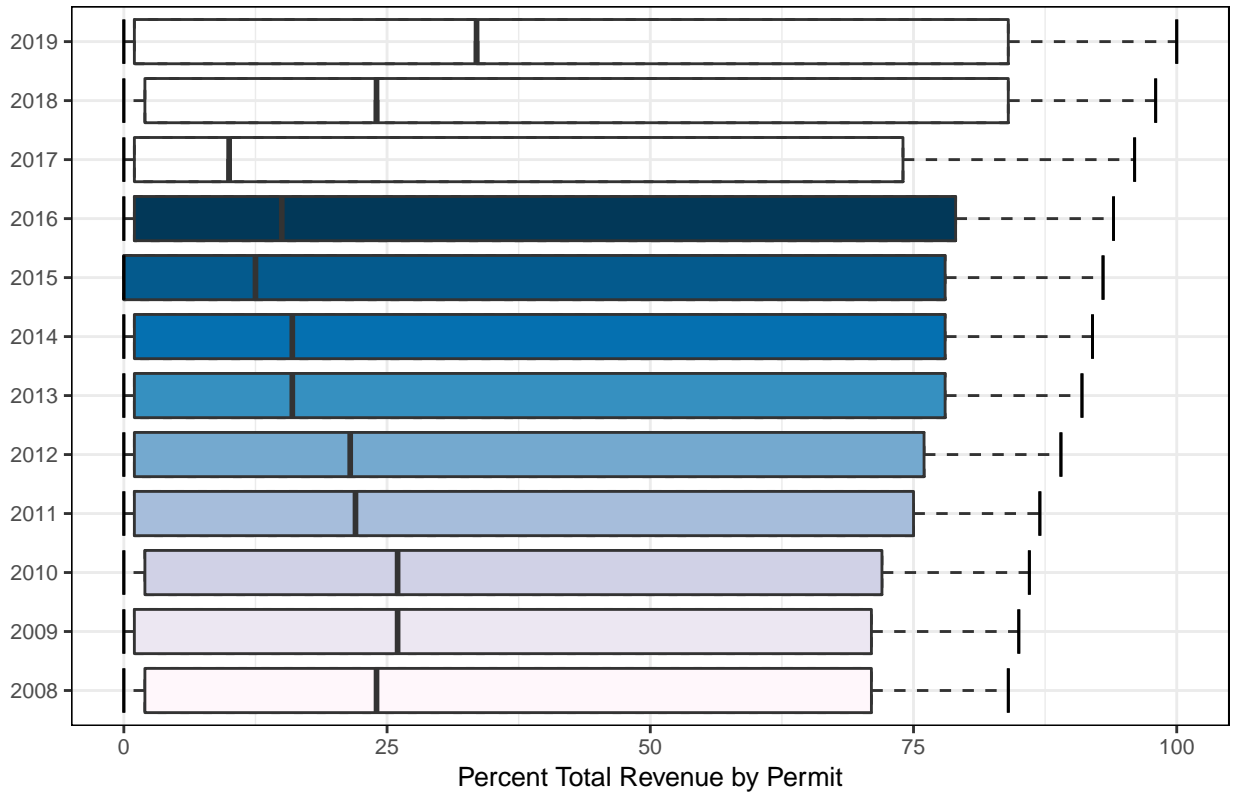
### Percentage of Revenue by Permit

We also analyzed the percentage of each permit's total commercial fishing revenue coming from within the River Herring and Shad areas (see boxplots figures and tables below). Boxplots are important statistical summaries because they provide information about the distribution of the percentages. The boxplots below begin at the 1st quartile, or the value beneath which 25 percent of all observations fall. A thick line within the box identifies the median, the observation at which 50 percent of observations are above or beneath. The box ends at the 3rd quartile, or the observation beneath which 75 percent of observations fall. Nonparametric estimates of the minimum and maximum values are also indicated by the "whiskers" (dashed

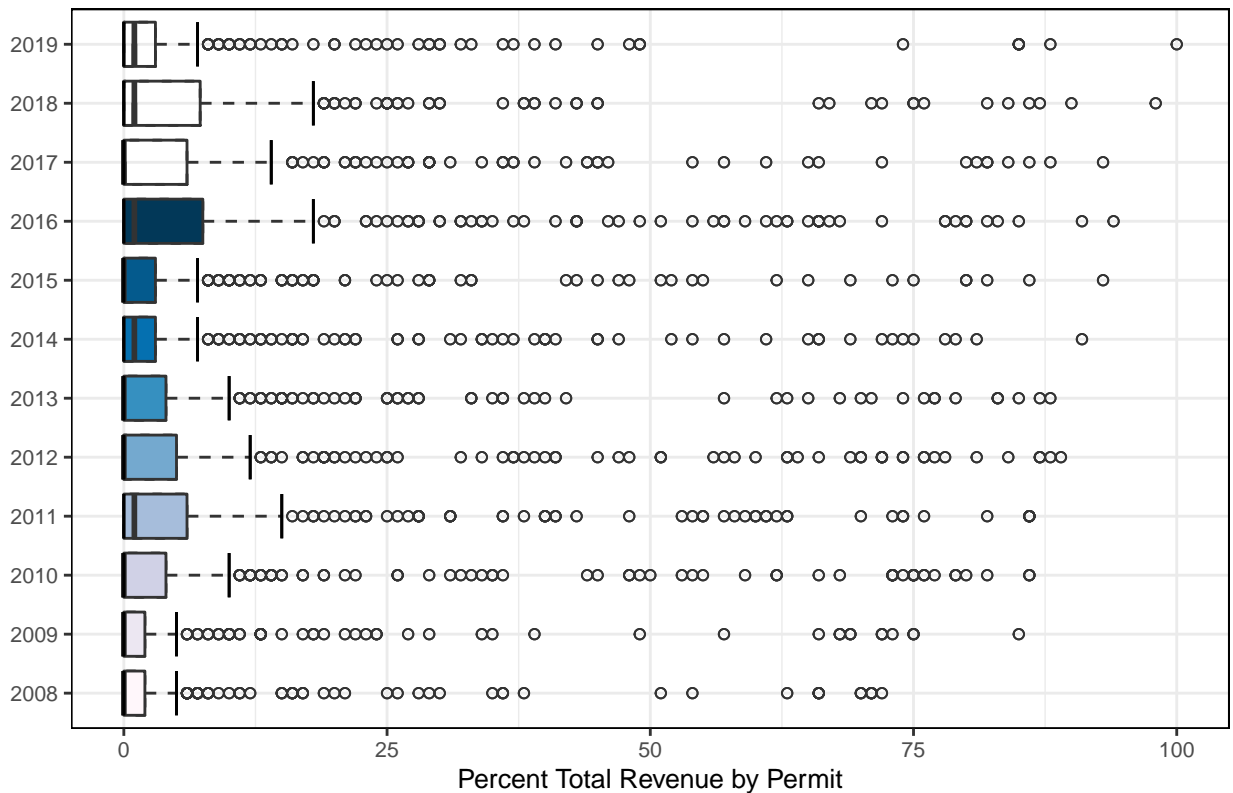
line terminating in a vertical line) that jut out from each side of the box. Any points outside of these whiskers are observations that are considered outliers. In our tables, however, the maximum values are inclusive of outliers. The table below presents the minimum, 1st quartile, median, 3rd quartile, and maximum values for each area. These are the twelve year revenue percentages. The boxplots in the figures below further separate each area out by year.

Area	Min	1st Quartile	Median	3rd Quartile	Max
Rhs 1 Nhma Merge	0	1	12	68	100
Rhs 2 Cape Merge	0	0.08	0.46	4	92
Rhs 3 Ri Merge	0	0.27	2	22	100
Rhs 4 Nj Merge	0	0.34	2	6	94

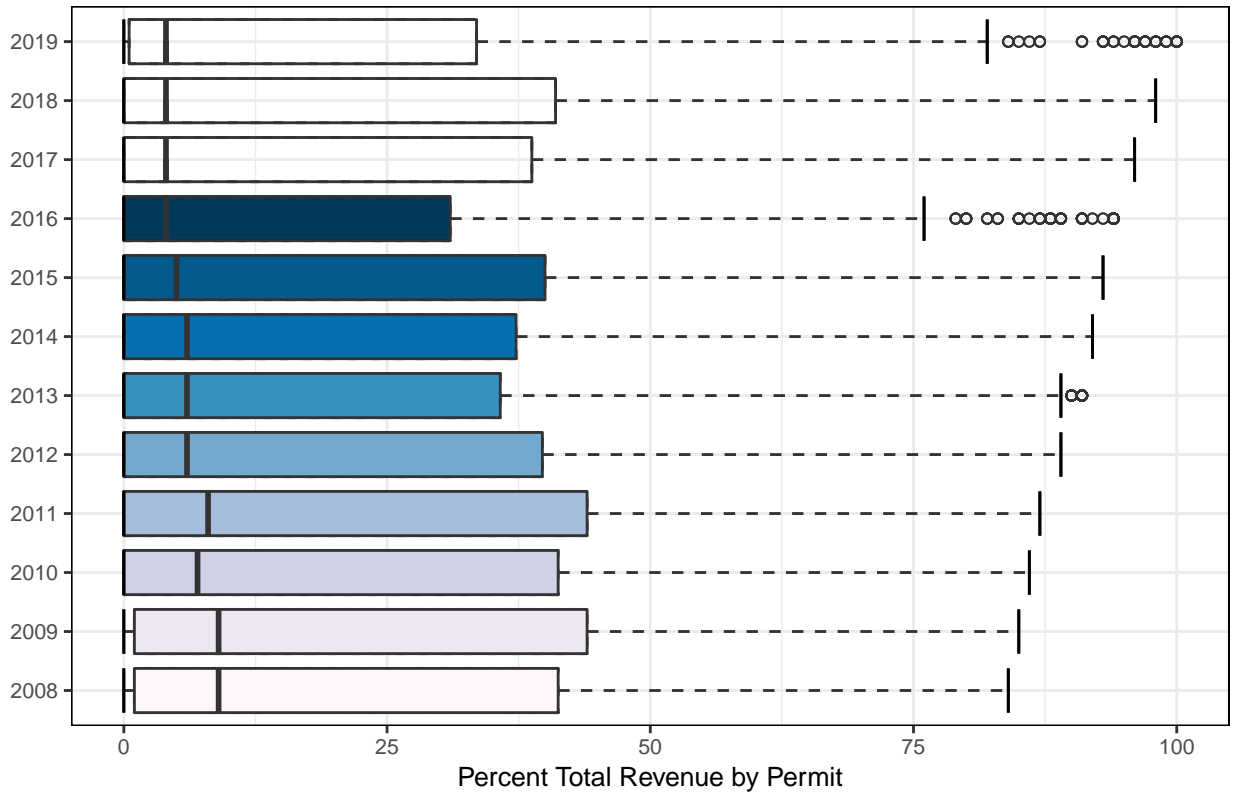
### Annual Permit Revenue Percentage Boxplots, Rhs 1 Nhma Merge



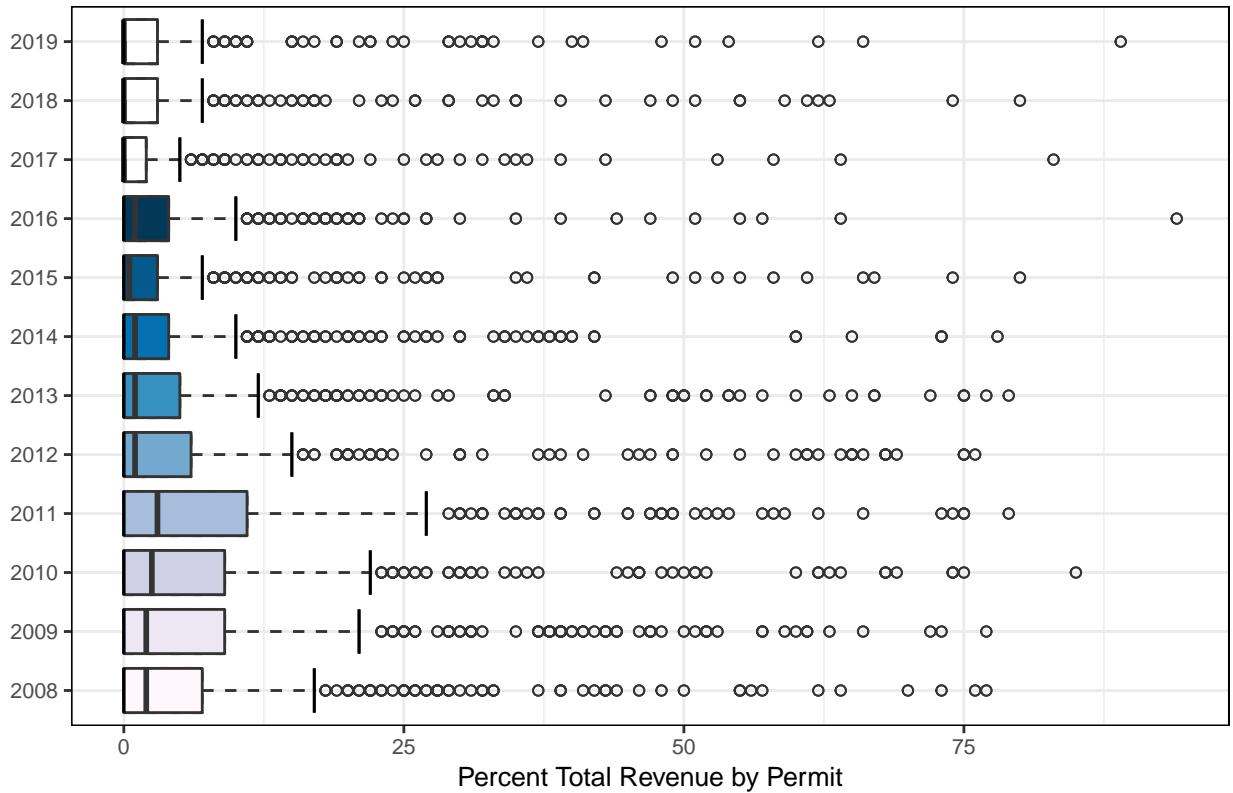
### Annual Permit Revenue Percentage Boxplots, Rhs 2 Cape Merge



### Annual Permit Revenue Percentage Boxplots, Rhs 3 Ri Merge



## Annual Permit Revenue Percentage Boxplots, Rhs 4 Nj Merge



### Species Dependence

The tables below indicate the top ten species deriving the most revenue from each area by year. Additional information includes landings, and effort (Days-at-Sea, or DAS), occurring within the areas of interest, as a percentage of totals generated by that species across the entire region by year and the total number of trips and vessels from each area by year, FMP, species, and port. Trips with less than three permits or dealers have been removed to protect data confidentiality. The category “All Others” refers to gear type categories with less than three permits or dealers impacted to protect data confidentiality.

Table 45: Total Number of Trips and Vessels by Year, RHS 1 NHMA Merge

Year	Number of Trips	Number of Vessels
2019	11,755	330
2018	18,451	380
2017	17,743	447
2016	17,948	392
2015	15,949	358
2014	16,591	349.0
2013	17,499	385.0
2012	22,220	420
2011	21,491	431.0
2010	24,473	507
2009	26,091	493
2008	24,886	489

Year	Number of Trips	Number of Vessels
------	-----------------	-------------------

Table 46: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 1 NHMA Merge, 2019

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Yellowtail Flounder	42.82	46.45	21.37
Red Hake	24.11	23.34	2.83
Atlantic Herring	22.28	17.58	18.17
Bluefin Tuna	18.12	18.18	12.24
Spot	12.79	8.91	26.00
Witch Flounder	10.53	7.72	3.97
American Lobster	9.81	10.65	7.24
Atlantic Cod	8.26	7.40	4.51
Silver Hake	7.08	8.59	3.29
Haddock	6.39	5.78	3.19

Table 47: Total Number of Trips and Vessels by FMP, RHS 1 NHMA Merge, 2019

FMP	Number of Trips	Number of Vessels
American Lobster	8,182	220
Atlantic Herring	176.0	23.0
Highly Migratory Species	46.0	17.0
Jonah Crab	1,086	53.0
Mackerel, Squid, and Butterfish	581	43
Monkfish	2,766	99
No Federal FMP	1,363	120.0
Northeast Multispecies	3,378	130
Sea Scallop	1,180	61
Skates	1,126	63
Small-Mesh Multispecies	1,697	84.0
Spiny Dogfish	361	16.0
Summer Flounder, Scup, Black Sea Bass	44	10

Table 48: Total Number of Trips and Vessels by Species, RHS 1 NHMA Merge, 2019

Species	Number of Trips	Number of Vessels
Am. Plaice Flounder	2,465	92
American Lobster	8,182	220
Atlantic Halibut	314	68
Atlantic Herring	176.0	23.0
Atlantic Mackerel	241	33
Bluefin Tuna	46	17.0
Butterfish	150	8
Cod	2,637	121.0
Cusk	342	61



Species	Number of Trips	Number of Vessels
Dogfish Spiny	361	16.0
Fourspot Flounder	41	3.0
Haddock	2,718	126
Illex Squid	177.0	8.0
Jonah Crab	1,086	53.0
King Whiting	237	18.0
Longfin Squid	244	13
Menhaden	16	3.0
Monkfish	2,766	99
Nk Crab	296.0	13.0
Offshore Hake	5.0	3.0
Pollock	1,487	105
Red Hake	257	16
Redfish	1,527	92
Rock Crab	163	8.0
Scup	16	4
Sea Raven	56	3
Sea Robins	4.0	3.0
Sea Scallop	1,180	61
Silver Hake	1,684	82.0
Skates	1,126	63
Striped Bass	116	28.0
Summer Flounder	27	7
White Hake	1,375	86
Winter Flounder	1,803	58.0
Witch Flounder	2,150	90
Yellowtail Flounder	1,791	61.0

Table 49: Total Number of Trips and Vessels by Port, RHS 1 NHMA Merge, 2019

Port	Number of Trips	Number of Vessels
Beverly, MA	524	7
Boston, MA	418	19.0
Gloucester, MA	4,897	148
Green Harbor, MA	107	3
Hampton, NH	75	4
Hull, MA	67	3
Kittery, ME	171	3
Marblehead, MA	153	6
Marshfield, MA	241	12
New Bedford, MA	82	18
Newburyport, MA	141	7
Portland, ME	132	22
Portsmouth, NH	938	17
Provincetown, MA	110	11.0
Rockland, ME	13.0	4.0
Rockport, MA	769	12
Rye, NH	206	7
Sandwich, MA	9	3
Scituate, MA	936	19

Port	Number of Trips	Number of Vessels
Seabrook, NH	603	11

Table 50: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 1 NHMA Merge, 2018

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Yellowtail Flounder	37.73	43.27	20.20
Bluefin Tuna	21.20	21.28	15.42
Witch Flounder	20.31	18.94	4.95
American Lobster	14.47	16.41	10.76
Atlantic Cod	14.08	12.59	5.34
Atlantic Herring	10.39	9.90	9.78
Red Hake	9.84	10.42	1.61
American Plaice	7.48	9.13	5.53
Haddock	5.97	4.72	3.60
Winter Flounder	5.62	6.27	12.19

Table 51: Total Number of Trips and Vessels by FMP, RHS 1 NHMA Merge, 2018

FMP	Number of Trips	Number of Vessels
American Lobster	14,794	258
Atlantic Herring	206	27.0
Bluefish	7	3
Highly Migratory Species	105	34.0
Jonah Crab	1,741	78.0
Mackerel, Squid, and Butterfish	722	68.0
Monkfish	3,102	106.0
No Federal FMP	1,769	134.0
Northeast Multispecies	3,861.0	152
Sea Scallop	950	55
Skates	1,675	70.0
Small-Mesh Multispecies	1,896	99
Spiny Dogfish	374	23.0
Summer Flounder, Scup, Black Sea Bass	20	12

Table 52: Total Number of Trips and Vessels by Species, RHS 1 NHMA Merge, 2018

Species	Number of Trips	Number of Vessels
Am. Plaice Flounder	2,814	101
American Lobster	14,794	258
Atlantic Halibut	251.0	68
Atlantic Herring	206	27.0
Atlantic Mackerel	320.0	45
Black Sea Bass	5	5
Bluefin Tuna	104	33

Species	Number of Trips	Number of Vessels
Bluefish	7	3
Butterfish	168	16
Channeled Whelk	21	5.0
Cod	3,001	141.0
Cusk	478	70
Dogfish Spiny	374	23.0
Haddock	3,122	144
Illex Squid	208.0	13.0
Jonah Crab	1,741	78.0
King Whiting	407	19.0
Longfin Squid	372	33.0
Menhaden	4	3.0
Monkfish	3,102	106.0
Nk Crab	312	15.0
Pollock	1,622	108
Red Hake	306	24
Redfish	1,645.0	100.0
Rock Crab	349	14.0
Scup	14	8
Sea Raven	37	3.0
Sea Scallop	950	55
Silver Hake	1,880	98.0
Skates	1,675	70.0
Striped Bass	63	19.0
Summer Flounder	8	6
White Hake	1,450	89
Winter Flounder	2,079	66.0
Witch Flounder	2,593	98
Yellowtail Flounder	2,024	66.0

Table 53: Total Number of Trips and Vessels by Port, RHS 1 NHMA Merge, 2018

Port	Number of Trips	Number of Vessels
Beverly, MA	1,104	12.0
Boston, MA	817	26
Gloucester, MA	7,255	155
Green Harbor, MA	198	7
Hampton, NH	150	3
Hull, MA	242	3
Kennebunkport, ME	204	3
Kittery, ME	307	5
Marblehead, MA	178	6
Marshfield, MA	735	21
New Bedford, MA	82	16
Newburyport, MA	226	5
Plymouth, MA	94	5.0
Point Judith, RI	3	3.0
Portland, ME	232	30
Portsmouth, NH	1,783	23
Provincetown, MA	72	10

Port	Number of Trips	Number of Vessels
Rockport, MA	1,570	15
Rye, NH	216	9
Salisbury, MA	60	3
Scituate, MA	1,121	18
Seabrook, NH	606	16

Table 54: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 1 NHMA Merge, 2017

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Yellowtail Flounder	30.23	36.09	14.39
Bluefin Tuna	23.07	20.32	16.53
Witch Flounder	19.93	19.15	3.19
Atlantic Herring	11.76	11.78	12.32
American Lobster	11.53	13.91	9.33
Atlantic Cod	11.16	10.50	4.02
Red Hake	10.88	14.29	2.19
American Plaice	6.63	7.67	3.29
Silver Hake	5.82	8.53	2.77
Atlantic Mackerel	4.50	4.45	2.83

Table 55: Total Number of Trips and Vessels by FMP, RHS 1 NHMA Merge, 2017

FMP	Number of Trips	Number of Vessels
American Lobster	14,337	272
Atlantic Herring	471	33.0
Bluefish	18	11
Highly Migratory Species	66.0	29.0
Jonah Crab	1,845	72.0
Mackerel, Squid, and Butterfish	702	68
Monkfish	2,627	124.0
No Federal FMP	1,335	147.0
Northeast Multispecies	3,236	155
Sea Scallop	512	104
Skates	1,218	76.0
Small-Mesh Multispecies	1,693	95.0
Spiny Dogfish	514.0	29.0
Summer Flounder, Scup, Black Sea Bass	27	8

Table 56: Total Number of Trips and Vessels by Species, RHS 1 NHMA Merge, 2017

Species	Number of Trips	Number of Vessels
Am. Plaice Flounder	2,078	108
American Lobster	14,337	272
Atlantic Halibut	212	61.0

Species	Number of Trips	Number of Vessels
Atlantic Herring	471	33.0
Atlantic Mackerel	397	54.0
Bluefin Tuna	66	29
Bluefish	18	11
Butterfish	279.0	20.0
Channeled Whelk	21	7.0
Cod	2,479	146.0
Cusk	445	76
Dogfish Spiny	514.0	29.0
Haddock	2,396	144
Illex Squid	125.0	9.0
Jonah Crab	1,845	72.0
King Whiting	226.0	15.0
Longfin Squid	313	24
Monkfish	2,627	124.0
Nk Crab	251	22.0
Pollock	1,606	123
Red Hake	375	28
Redfish	1,087.0	103.0
Rock Crab	220	17
Scup	23	6
Sea Scallop	512	104
Silver Hake	1,680	94
Skates	1,218	76.0
Striped Bass	63	16
Summer Flounder	7	6
White Hake	1,469	107.0
Winter Flounder	1,488	65
Witch Flounder	1,872	105
Yellowtail Flounder	1,390	62.0

Table 57: Total Number of Trips and Vessels by Port, RHS 1 NHMA Merge, 2017

Port	Number of Trips	Number of Vessels
Beverly, MA	987	8
Boston, MA	724	26.0
Cape Porpoise, ME	42	5
Gloucester, MA	6,624	149
Green Harbor, MA	197	8
Hull, MA	331	3
Kennebunkport, ME	140	4
Kittery, ME	328	8
Manchester, MA	155	3
Marblehead, MA	191	4
Marshfield, MA	709	20
Nahant, MA	218	3
New Bedford, MA	256	89
Newburyport, MA	89	5
Plymouth, MA	52	5
Point Judith, RI	6	5.0

Port	Number of Trips	Number of Vessels
Portland, ME	245	28
Portsmouth, NH	1,878	23
Provincetown, MA	57	11
Rockland, ME	16	5
Rockport, MA	1,372	13
Rye, NH	277	8
Sandwich, MA	51	3
Scituate, MA	1,187	21
Seabrook, NH	649	14

Table 58: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 1 NHMA Merge, 2016

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Bluefin Tuna	35.98	36.20	33.71
Yellowtail Flounder	26.14	32.10	9.28
Witch Flounder	17.68	16.13	2.75
Red Hake	12.87	23.44	2.42
American Lobster	12.78	15.64	8.97
Silver Hake	9.04	14.36	3.05
Atlantic Cod	6.78	5.48	2.85
American Plaice	6.14	7.72	2.91
Spiny Dogfish	3.82	3.96	4.81
Atlantic Halibut	3.56	3.85	0.88

Table 59: Total Number of Trips and Vessels by FMP, RHS 1 NHMA Merge, 2016

FMP	Number of Trips	Number of Vessels
American Lobster	14,276	245
Atlantic Herring	231	30.0
Bluefish	61	13
Highly Migratory Species	175.0	32.0
Jonah Crab	1,112	51.0
Mackerel, Squid, and Butterfish	552	73
Monkfish	2,585	119
No Federal FMP	796	116.0
Northeast Multispecies	3,086	146
Sea Scallop	931	77.0
Skates	811	59.0
Small-Mesh Multispecies	1,717	93.0
Spiny Dogfish	996	46.0
Summer Flounder, Scup, Black Sea Bass	34	9

Table 60: Total Number of Trips and Vessels by Species, RHS 1 NHMA Merge, 2016

Species	Number of Trips	Number of Vessels
Am. Plaice Flounder	2,041	102
American Lobster	14,276	245
Atlantic Halibut	240	72
Atlantic Herring	231	30.0
Atlantic Mackerel	287	57.0
Blue Crab	52	5.0
Bluefin Tuna	172	31
Bluefish	61	13
Butterfish	228	22
Channeled Whelk	18	5.0
Cod	2,398	135.0
Cusk	450	66
Dogfish Spiny	996	46.0
Haddock	2,304	134
Illex Squid	24.0	3.0
Jonah Crab	1,112	51.0
Longfin Squid	134	17
Monkfish	2,585	119
Nk Crab	72	9.0
Pollock	1,617	109
Red Hake	431	28
Redfish	1,119	105
Rock Crab	65	13.0
Scup	25	7
Sea Scallop	931	77.0
Silver Hake	1,701	92.0
Skates	811	59.0
Striped Bass	45	16
Summer Flounder	12	3
White Hake	1,414	103
Winter Flounder	1,460	66
Witch Flounder	1,790	107
Yellowtail Flounder	1,260	70.0

Table 61: Total Number of Trips and Vessels by Port, RHS 1 NHMA Merge, 2016

Port	Number of Trips	Number of Vessels
Beverly, MA	1,123	7
Boston, MA	616	20.0
Cape Porpoise, ME	44	3
Gloucester, MA	6,752	144
Green Harbor, MA	252	10.0
Hampton, NH	146	6
Hull, MA	334	3
Kennebunkport, ME	146	3
Kittery, ME	306	5
Manchester, MA	234	3

Port	Number of Trips	Number of Vessels
Marblehead, MA	208	6
Marshfield, MA	756	19
Nahant, MA	363	3
New Bedford, MA	173.0	53.0
Newburyport, MA	182	6
Portland, ME	188	28
Portsmouth, NH	1,798	20
Provincetown, MA	11	7
Rockport, MA	1,078	13
Rye, NH	355	9
Salisbury, MA	84	3
Sandwich, MA	67	6.0
Scituate, MA	1,207	17
Seabrook, NH	720	17
York Harbor, ME	278	5

Table 62: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 1 NHMA Merge, 2015

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Witch Flounder	17.15	17.19	2.19
American Lobster	11.95	14.09	8.07
Yellowtail Flounder	10.49	15.20	6.17
Red Hake	9.58	15.82	2.11
Atlantic Herring	5.82	5.63	5.74
Silver Hake	5.51	6.50	2.84
American Plaice	4.48	5.51	2.28
Spiny Dogfish	4.44	4.27	4.32
Atlantic Mackerel	2.52	1.94	2.83
Atlantic Halibut	2.41	2.73	0.52

Table 63: Total Number of Trips and Vessels by FMP, RHS 1 NHMA Merge, 2015

FMP	Number of Trips	Number of Vessels
American Lobster	12,777	222
Atlantic Herring	284	30.0
Bluefish	48	14
Jonah Crab	794	41.0
Mackerel, Squid, and Butterfish	747	67.0
Monkfish	2,446	108
No Federal FMP	761	111.0
Northeast Multispecies	2,539	126
Sea Scallop	843	42
Skates	635	54
Small-Mesh Multispecies	1,847	88.0
Spiny Dogfish	854	40.0
Summer Flounder, Scup, Black Sea Bass	12	5



Table 64: Total Number of Trips and Vessels by Species, RHS 1 NHMA Merge, 2015

Species	Number of Trips	Number of Vessels
Am. Plaice Flounder	1,751	104
American Lobster	12,777	222
Atlantic Halibut	165	54.0
Atlantic Herring	284	30.0
Atlantic Mackerel	358	50.0
Blue Crab	100	5
Bluefish	48	14
Butterfish	278	23.0
Channeled Whelk	25	5.0
Cod	1,831	117.0
Cusk	293	62.0
Dogfish Spiny	854	40.0
Haddock	1,709	112
Illex Squid	50.0	7.0
Jonah Crab	794	41.0
King Whiting	53	13.0
Longfin Squid	139	18.0
Monkfish	2,446	108
Nk Crab	117	9
Pollock	1,319	104
Red Hake	354	24
Redfish	769	92
Rock Crab	76	14.0
Scup	9	4
Sea Raven	24	3
Sea Scallop	843	42
Silver Hake	1,835	87.0
Skates	635	54
Striped Bass	28	12
Summer Flounder	5	4
White Hake	1,023	93.0
Winter Flounder	1,472	59.0
Witch Flounder	1,617	103
Yellowtail Flounder	1,278	61.0

Table 65: Total Number of Trips and Vessels by Port, RHS 1 NHMA Merge, 2015

Port	Number of Trips	Number of Vessels
Beverly, MA	930	8
Boston, MA	408	22.0
Cape Porpoise, ME	49	5
Gloucester, MA	5,512	127
Green Harbor, MA	297	8
Hampton, NH	145	8
Hull, MA	331	3
Kennebunkport, ME	172	3
Kittery, ME	298	5

Port	Number of Trips	Number of Vessels
Manchester, MA	238	4
Marblehead, MA	193	5
Marshfield, MA	579	17
Nahant, MA	330	3
New Bedford, MA	83	32
Newburyport, MA	278	5
Portland, ME	145	30
Portsmouth, NH	1,551	19
Provincetown, MA	17	7
Rockport, MA	994	11
Rye, NH	638	9
Salisbury, MA	85	3
Sandwich, MA	66	4.0
Scituate, MA	1,025	16
Seabrook, NH	613	15
York Harbor, ME	420	4

Table 66: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 1 NHMA Merge, 2014

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Witch Flounder	16.49	14.97	3.94
Yellowtail Flounder	13.09	17.70	9.64
American Lobster	11.86	13.83	7.86
Atlantic Cod	11.51	11.73	3.96
Spiny Dogfish	8.11	7.70	8.92
American Plaice	7.39	8.52	4.45
Atlantic Mackerel	5.45	7.93	3.30
Silver Hake	4.09	5.60	3.80
Red Hake	3.99	5.74	1.70
Atlantic Herring	3.90	3.98	4.98

Table 67: Total Number of Trips and Vessels by FMP, RHS 1 NHMA Merge, 2014

FMP	Number of Trips	Number of Vessels
American Lobster	12,425	229.0
Atlantic Herring	224	38.0
Bluefish	148	29
Highly Migratory Species	67	30.0
Jonah Crab	764	45
Mackerel, Squid, and Butterfish	896	76.0
Monkfish	3,389	132
No Federal FMP	1,249	147.0
Northeast Multispecies	4,395	154
Sea Scallop	683	42
Skates	792	71.0
Small-Mesh Multispecies	2,751	105.0
Spiny Dogfish	1,931	66.0

FMP	Number of Trips	Number of Vessels
Summer Flounder, Scup, Black Sea Bass	25	13

Table 68: Total Number of Trips and Vessels by Species, RHS 1 NHMA Merge, 2014

Species	Number of Trips	Number of Vessels
Am. Plaice Flounder	3,180	127
American Lobster	12,425	229.0
Atlantic Halibut	193	64.0
Atlantic Herring	224	38.0
Atlantic Mackerel	577	55.0
Bluefish	148	29
Butterfish	158	20
Cod	3,922	148.0
Cusk	674	94
Dogfish Spiny	1,931	66.0
Haddock	2,711	138
Hagfish	11.0	3
Illex Squid	132.0	12.0
Jonah Crab	764	45
King Whiting	210.0	20.0
Longfin Squid	249	21.0
Monkfish	3,389	132
Nk Crab	57	10.0
Offshore Hake	47.0	5.0
Pollock	2,321	126
Red Hake	310	28
Redfish	1,653	119
Rock Crab	109	14.0
Scup	18	7
Sea Raven	35	4
Sea Scallop	683	42
Silver Hake	2,737	102.0
Skates	792	71.0
Striped Bass	96	23
Summer Flounder	8	7
White Hake	1,805	118
Winter Flounder	2,893	98.0
Witch Flounder	2,737	124
Yellowtail Flounder	2,701	95

Table 69: Total Number of Trips and Vessels by Port, RHS 1 NHMA Merge, 2014

Port	Number of Trips	Number of Vessels
Beverly, MA	848	6
Boston, MA	571	23.0
Cape Porpoise, ME	51	5
Gloucester, MA	6,178	132

Port	Number of Trips	Number of Vessels
Green Harbor, MA	112	6
Hampton, NH	82	3
Hull, MA	294	3
Kennebunkport, ME	248	3
Marshfield, MA	633	14
Nahant, MA	325	4
New Bedford, MA	125	31.0
Newburyport, MA	257	6
Plymouth, MA	54.0	4.0
Portland, ME	141	23
Portsmouth, NH	1,703	19
Provincetown, MA	35	12
Rockland, ME	7	4
Rockport, MA	977	13
Rye, NH	613	10
Salisbury, MA	36	3
Scituate, MA	1,004	17
Seabrook, NH	829	17
York Harbor, ME	440	3

Table 70: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 1 NHMA Merge, 2013

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Yellowtail Flounder	16.74	19.97	9.50
Atlantic Cod	15.59	15.25	4.70
Witch Flounder	13.05	12.13	4.11
American Lobster	11.06	13.59	7.66
Offshore Hake	7.06	6.99	4.82
Red Hake	6.44	12.33	1.95
American Plaice	4.50	4.82	4.86
Silver Hake	4.33	4.41	4.22
Spiny Dogfish	4.18	3.79	6.51
Atlantic Herring	3.77	4.57	4.19

Table 71: Total Number of Trips and Vessels by FMP, RHS 1 NHMA Merge, 2013

FMP	Number of Trips	Number of Vessels
American Lobster	12,994	260.0
Atlantic Herring	297	31.0
Bluefish	70	27
Jonah Crab	877	41.0
Mackerel, Squid, and Butterfish	797	70.0
Monkfish	3,473	151.0
No Federal FMP	1,475	167.0
Northeast Multispecies	4,868	186
Sea Scallop	600	38
Skates	1,304	102.0

FMP	Number of Trips	Number of Vessels
Small-Mesh Multispecies	2,596	104
Spiny Dogfish	1,091	68.0
Summer Flounder, Scup, Black Sea Bass	35	15

Table 72: Total Number of Trips and Vessels by Species, RHS 1 NHMA Merge, 2013

Species	Number of Trips	Number of Vessels
Am. Plaice Flounder	3,523	143
American Lobster	12,994	260.0
Atlantic Halibut	132	61.0
Atlantic Herring	297	31.0
Atlantic Mackerel	438	53
Bluefish	70	27
Butterfish	244	22
Channeled Whelk	102	11.0
Cod	4,447	183
Conchs	82.0	5.0
Cusk	715	98
Dogfish Spiny	1,091	68.0
Haddock	2,429	159
Illex Squid	120.0	9.0
Jonah Crab	877	41.0
Longfin Squid	202	21
Monkfish	3,473	151.0
Nk Crab	54	5.0
Offshore Hake	64	4.0
Pandalid Shrimp	200	31
Pollock	2,857	164
Red Hake	352	24.0
Redfish	1,816	148
Rock Crab	263	13.0
Scup	24	10
Sea Scallop	600	38
Silver Hake	2,567	103.0
Skates	1,304	102.0
Striped Bass	59	18
Summer Flounder	11	6
White Hake	1,968	134
Winter Flounder	3,119	111.0
Witch Flounder	3,060	145
Yellowtail Flounder	2,771	107

Table 73: Total Number of Trips and Vessels by Port, RHS 1 NHMA Merge, 2013

Port	Number of Trips	Number of Vessels
Beverly, MA	1,030	7
Boston, MA	602	26.0

Port	Number of Trips	Number of Vessels
Cape Porpoise, ME	50	4
Dennis, MA	20	3.0
Gloucester, MA	6,352	143
Hampton, NH	93	5
Hull, MA	380	3
Kennebunkport, ME	297	5
Kittery, ME	206	7
Marshfield, MA	676	17.0
Nahant, MA	349	4
New Bedford, MA	198	34.0
Newburyport, MA	247	7
Plymouth, MA	63	3
Portland, ME	165	31
Portsmouth, NH	1,695	23
Provincetown, MA	53	10.0
Rockport, MA	883	9
Rye, NH	655	10
Salisbury, MA	45	5
Sandwich, MA	67.0	4.0
Scituate, MA	1,245	17
York Harbor, ME	400	4

Table 74: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 1 NHMA Merge, 2012

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Atlantic Cod	23.63	26.60	9.01
Yellowtail Flounder	18.44	21.93	13.74
Witch Flounder	18.35	17.80	7.37
Northern Shrimp	14.08	16.74	27.18
Spiny Dogfish	13.88	14.53	18.41
American Lobster	9.79	12.53	8.39
Haddock	6.61	6.45	5.49
Silver Hake	5.79	8.94	7.64
American Plaice	5.69	6.00	8.56
Winter Flounder	4.72	5.47	14.41

Table 75: Total Number of Trips and Vessels by FMP, RHS 1 NHMA Merge, 2012

FMP	Number of Trips	Number of Vessels
American Lobster	14,125	288
Atlantic Herring	434.0	39.0
Bluefish	500	54
Highly Migratory Species	115	30.0
Jonah Crab	700	27.0
Mackerel, Squid, and Butterfish	1,119	96.0
Monkfish	5,818	190
No Federal FMP	2,229	206

FMP	Number of Trips	Number of Vessels
Northeast Multispecies	8,794	233.0
Sea Scallop	208	31.0
Skates	2,443	137
Small-Mesh Multispecies	4,134	126.0
Spiny Dogfish	3,979	117.0
Summer Flounder, Scup, Black Sea Bass	49	15

Table 76: Total Number of Trips and Vessels by Species, RHS 1  
NHMA Merge, 2012

Species	Number of Trips	Number of Vessels
Am. Plaice Flounder	5,486	189
American Lobster	14,125	288
Atlantic Halibut	160	71.0
Atlantic Herring	434.0	39.0
Atlantic Mackerel	677.0	59.0
Black Sea Bass	9	5
Bluefish	500	54
Butterfish	256	31
Channeled Whelk	113	14.0
Cod	8,347	228
Conchs	59	8.0
Cusk	1,208	129
Dogfish Spiny	3,979	117.0
Haddock	3,900	192
Illex Squid	141.0	15.0
Jonah Crab	700	27.0
Longfin Squid	277	35.0
Monkfish	5,818	190
Nk Crab	68.0	4.0
Nk Shrimp	20	6
Offshore Hake	64.0	5
Pandalid Shrimp	384	44
Pollock	4,799	204
Porbeagle Shark	9	4
Red Hake	497	40.0
Redfish	2,510	172.0
Rock Crab	292	11.0
Scup	13	6
Sea Raven	71	3
Sea Scallop	208	31.0
Silver Hake	4,106	122
Skates	2,443	137
Striped Bass	63	23
Summer Flounder	30	9
White Hake	3,451	173
Winter Flounder	5,954	146
Witch Flounder	4,783	183
Yellowtail Flounder	5,308	153

Table 77: Total Number of Trips and Vessels by Port, RHS 1 NHMA Merge, 2012

Port	Number of Trips	Number of Vessels
Beverly, MA	1,001	7
Boston, MA	817	26.0
Cape Porpoise, ME	45	6
Dennis, MA	37	4
Gloucester, MA	9,098	156
Hampton, NH	162	5
Hull, MA	429	7
Kennebunkport, ME	109	5
Kittery, ME	321	10
Marblehead, MA	266	5
Marshfield, MA	657	19
Nahant, MA	385	4
New Bedford, MA	176	34.0
Newburyport, MA	203	10
Plymouth, MA	114	5.0
Port Clyde, ME	3	3
Portland, ME	149	34
Portsmouth, NH	1,972	26
Provincetown, MA	54	10.0
Rockport, MA	1,127	13
Rye, NH	899	13
Sandwich, MA	46.0	5.0
Scituate, MA	1,884	23
Seabrook, NH	1,077	23
York Harbor, ME	455	3
York, ME	123	4

Table 78: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 1 NHMA Merge, 2011

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Atlantic Cod	23.32	25.81	8.99
Witch Flounder	13.82	13.27	6.97
Spiny Dogfish	13.66	15.72	14.22
Yellowtail Flounder	12.45	13.60	10.25
Red Hake	12.14	12.07	1.79
American Lobster	10.11	12.75	8.16
Pollock	5.90	6.73	7.33
American Plaice	5.64	6.76	7.73
Silver Hake	5.32	5.36	6.11
All Others	4.56	4.05	2.99

Table 79: Total Number of Trips and Vessels by FMP, RHS 1 NHMA Merge, 2011

FMP	Number of Trips	Number of Vessels
American Lobster	13,550	295



FMP	Number of Trips	Number of Vessels
Atlantic Herring	375	33.0
Bluefish	260	45
Highly Migratory Species	172	35.0
Jonah Crab	359	23.0
Mackerel, Squid, and Butterfish	916	84
Monkfish	5,528	184.0
No Federal FMP	2,163	198
Northeast Multispecies	8,268	234.0
Sea Scallop	215	30
Skates	2,428	153.0
Small-Mesh Multispecies	3,019	119.0
Spiny Dogfish	2,302	105
Summer Flounder, Scup, Black Sea Bass	40	25

Table 80: Total Number of Trips and Vessels by Species, RHS 1  
NHMA Merge, 2011

Species	Number of Trips	Number of Vessels
Am. Plaice Flounder	4,621	178
American Lobster	13,550	295
Atlantic Halibut	122	53
Atlantic Herring	375	33.0
Atlantic Mackerel	521	58.0
Black Sea Bass	5	5
Bluefish	260	45
Butterfish	216	19
Channeled Whelk	97	8.0
Chub Mackerel	6.0	4.0
Cod	7,999	230
Conchs	58	5
Cusk	1,009	134
Dogfish Spiny	2,302	105
Haddock	4,306	202
Illex Squid	127	12.0
Jonah Crab	359	23.0
Longfin Squid	203	27
Monkfish	5,528	184.0
Nk Crab	13	3.0
Offshore Hake	7.0	3.0
Pandalid Shrimp	674	39
Pollock	5,601	208
Porbeagle Shark	8	3
Red Hake	300	26.0
Redfish	2,398	159
Rock Crab	189	9.0
Sand-Dab Flounder	6	3
Scup	9	6
Sea Scallop	215	30
Silver Hake	3,006	115.0
Skates	2,428	153.0
Striped Bass	77	21

Species	Number of Trips	Number of Vessels
Summer Flounder	32	20
White Hake	3,680	173
Winter Flounder	4,811	163
Witch Flounder	4,166	175
Yellowtail Flounder	4,167	165

Table 81: Total Number of Trips and Vessels by Port, RHS 1 NHMA Merge, 2011

Port	Number of Trips	Number of Vessels
Beverly, MA	974	7
Boston, MA	659	21.0
Cape Porpoise, ME	78	5
Chatham, MA	22	5
Dennis, MA	72	5.0
Gloucester, MA	8,723	166
Hampton, NH	249	11
Hull, MA	662	8
Kennebunkport, ME	185	3
Kittery, ME	376	6
Marblehead, MA	343	6
Marshfield, MA	635	19
Nahant, MA	351	4
New Bedford, MA	163	35
Newburyport, MA	393	12.0
Plymouth, MA	119	8.0
Portland, ME	87	27
Portsmouth, NH	1,666	29
Provincetown, MA	163	15.0
Rockport, MA	1,037	14
Rye, NH	784	10
Sandwich, MA	51.0	4.0
Scituate, MA	1,358	23
Seabrook, NH	1,195	26
South Bristol, ME	7	3
York Harbor, ME	420	3
York, ME	133	5

Table 82: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 1 NHMA Merge, 2010

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Atlantic Cod	31.08	35.93	10.99
Atlantic Wolffish	28.78	30.53	8.53
Bluefin Tuna	24.62	26.51	23.28
Spiny Dogfish	22.60	24.15	18.92
Yellowtail Flounder	17.97	19.36	12.22
Witch Flounder	10.74	9.52	5.08
American Lobster	9.79	12.07	7.73

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Atlantic Herring	7.94	9.78	8.17
Pollock	5.98	6.98	5.93
American Plaice	5.04	5.37	6.28

Table 83: Total Number of Trips and Vessels by FMP, RHS 1  
NHMA Merge, 2010

FMP	Number of Trips	Number of Vessels
American Lobster	13,480	313
Atlantic Herring	489	50.0
Bluefish	497	71
Highly Migratory Species	245	48.0
Jonah Crab	521	27.0
Mackerel, Squid, and Butterfish	447	80
Monkfish	4,231	207
No Federal FMP	2,118	257.0
Northeast Multispecies	10,252	278
Sea Scallop	106	27.0
Skates	2,231	152
Small-Mesh Multispecies	1,879	112.0
Spiny Dogfish	2,173	121.0
Summer Flounder, Scup, Black Sea Bass	11	8

Table 84: Total Number of Trips and Vessels by Species, RHS 1  
NHMA Merge, 2010

Species	Number of Trips	Number of Vessels
Am. Plaice Flounder	3,509	209
American Lobster	13,480	313
Atlantic Halibut	123	59.0
Atlantic Herring	489	50.0
Atlantic Mackerel	293	66.0
Bluefin Tuna	229	43
Bluefish	497	71
Butterfish	135	17
Channeled Whelk	87	10.0
Cod	9,985	274
Conchs	29.0	6.0
Cusk	691	116
Dogfish Spiny	2,173	121.0
Haddock	3,090	221
Illex Squid	27.0	5.0
Jonah Crab	521	27.0
Knobbed Whelk	6	4.0
Longfin Squid	97	15.0
Monkfish	4,231	207
Nk Flounders	16	3
Offshore Hake	12.0	6.0
Other Fish	6.0	4.0

Species	Number of Trips	Number of Vessels
Pandalid Shrimp	655	52
Pollock	4,069	227
Porbeagle Shark	5	5.0
Red Hake	227	25.0
Redfish	1,653.0	148.0
Rock Crab	148	14
Sand-Dab Flounder	55	11.0
Sea Scallop	106	27.0
Silver Hake	1,858	111
Skates	2,231	152
Striped Bass	192	42.0
Summer Flounder	7	6
White Hake	2,435	167
Winter Flounder	5,464	196
Witch Flounder	2,779	181
Wolffishes	262	100
Yellowtail Flounder	5,735	201

Table 85: Total Number of Trips and Vessels by Port, RHS 1 NHMA Merge, 2010

Port	Number of Trips	Number of Vessels
Beverly, MA	960	8
Boston, MA	547	27.0
Cape Porpoise, ME	61	6
Gloucester, MA	10,912	215
Hampton, NH	255	11
Hull, MA	691	9
Kennebunkport, ME	114	3
Kittery, ME	424	8
Marblehead, MA	301	5
Marshfield, MA	852	20
New Bedford, MA	60	21
Newburyport, MA	347	15
Newington, NH	9	3
Plymouth, MA	130	6
Point Judith, RI	6	3.0
Portland, ME	150	34
Portsmouth, NH	1,610	28
Provincetown, MA	290	15.0
Rockland, ME	8	4
Rockport, MA	1,430	16
Rockport, ME	6	4
Rye, NH	767	11
Sandwich, MA	44.0	5.0
Scituate, MA	1,809	32
Seabrook, NH	1,192	32
South Bristol, ME	7	6
Stonington, ME	4	4
Vinalhaven, ME	3	3
York Harbor, ME	416	3

Port	Number of Trips	Number of Vessels
York, ME	149	5

Table 86: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 1 NHMA Merge, 2009

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Atlantic Cod	31.88	37.92	14.24
Atlantic Wolffish	24.61	27.66	9.47
Spiny Dogfish	21.93	25.58	26.92
Yellowtail Flounder	11.32	12.78	15.01
Red Hake	10.39	11.73	1.33
Atlantic Herring	10.20	13.10	5.61
American Lobster	8.93	11.35	7.53
Witch Flounder	7.48	7.14	6.30
Bluefin Tuna	6.76	8.04	6.31
Pollock	6.27	7.34	7.84

Table 87: Total Number of Trips and Vessels by FMP, RHS 1 NHMA Merge, 2009

FMP	Number of Trips	Number of Vessels
American Lobster	12,334	310.0
Atlantic Herring	253	34.0
Bluefish	645	89
Highly Migratory Species	48.0	19.0
Jonah Crab	580	26.0
Mackerel, Squid, and Butterfish	553	86.0
Monkfish	6,416	226
No Federal FMP	2,880	272.0
Northeast Multispecies	14,323	298
Sea Scallop	205	31.0
Skates	1,693	148.0
Small-Mesh Multispecies	2,956	141.0
Spiny Dogfish	4,620	149.0
Summer Flounder, Scup, Black Sea Bass	109	25

Table 88: Total Number of Trips and Vessels by Species, RHS 1 NHMA Merge, 2009

Species	Number of Trips	Number of Vessels
Am. Plaice Flounder	4,793	222
American Lobster	12,334	310.0
American Shad	5	5.0
Atlantic Halibut	123	65.0
Atlantic Herring	253	34.0
Atlantic Mackerel	376	71.0
Black Sea Bass	17	3

Species	Number of Trips	Number of Vessels
Bluefin Tuna	39	16
Bluefish	645	89
Butterfish	85	10
Channeled Whelk	167	8.0
Cod	13,979	293
Cusk	822	144
Dogfish Smooth	15.0	4.0
Dogfish Spiny	4,620	149.0
Fourspot Flounder	14.0	3.0
Haddock	5,200	239
Illex Squid	42.0	4.0
Jonah Crab	580	26.0
Longfin Squid	109	20.0
Menhaden	4.0	3.0
Monkfish	6,416	226
Nk Crab	260	9.0
Nk Flounders	3.0	3
Ocean Pout	10	4
Offshore Hake	22.0	5.0
Pandalid Shrimp	377	35
Pollock	5,782	233
Porbeagle Shark	8	3
Red Hake	407	38.0
Redfish	2,130	168
Rock Crab	178	12.0
Sand-Dab Flounder	325	48
Scup	56	3
Sea Scallop	205	31.0
Silver Hake	2,821	136
Skates	1,693	148.0
Southern Flounder	5.0	4.0
Striped Bass	81	25
Summer Flounder	106	23
Tautog	4.0	3.0
White Hake	3,300	192
Winter Flounder	8,613	204.0
Witch Flounder	3,607	207
Wolffishes	1,247	173
Yellowtail Flounder	7,825	207

Table 89: Total Number of Trips and Vessels by Port, RHS 1 NHMA Merge, 2009

Port	Number of Trips	Number of Vessels
Bailey Island, ME	5	3
Barnstable, MA	3.0	3
Beverly, MA	1,015	8
Boston, MA	197	24.0
Cape Porpoise, ME	59	6
Fall River, MA	6	3.0
Gloucester, MA	12,525	201

Port	Number of Trips	Number of Vessels
Hampton, NH	386	11
Harpswell, ME	4	4
Hull, MA	432	5
Kittery, ME	454	8
Marblehead, MA	399	9
Marshfield, MA	914	18
Nahant, MA	171	3
New Bedford, MA	43	15
New Harbor, ME	13	4
Newburyport, MA	280	9
Plymouth, MA	104	6
Point Judith, RI	3.0	3.0
Port Clyde, ME	3	3
Portland, ME	156	29
Portsmouth, NH	1,652	29
Provincetown, MA	175	12.0
Rockland, ME	9	3
Rockport, MA	1,435	13
Rye, NH	949	15
Salisbury, MA	44	6
Scituate, MA	1,821	37
Seabrook, NH	1,477	31
South Bristol, ME	7	4
Vinalhaven, ME	3	3
York Harbor, ME	411	3
York, ME	156	3

Table 90: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 1 NHMA Merge, 2008

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Atlantic Cod	29.50	34.47	13.80
Spiny Dogfish	27.55	30.93	33.17
Atlantic Wolffish	21.62	24.49	8.91
Northern Shrimp	14.60	17.58	17.63
Yellowtail Flounder	13.11	13.38	16.29
Atlantic Herring	11.68	12.86	9.46
Pollock	11.39	18.60	8.85
American Lobster	8.55	11.21	7.01
Red Hake	7.66	11.36	1.36
American Shad	6.79	9.52	0.60

Table 91: Total Number of Trips and Vessels by FMP, RHS 1 NHMA Merge, 2008

FMP	Number of Trips	Number of Vessels
American Lobster	11,776	322
Atlantic Herring	309	37.0
Bluefish	443	74.0

FMP	Number of Trips	Number of Vessels
Highly Migratory Species	38.0	18.0
Jonah Crab	484	26.0
Mackerel, Squid, and Butterfish	511	63
Monkfish	6,436	222.0
No Federal FMP	3,248	265
Northeast Multispecies	13,274	284
Sea Scallop	311	40
Skates	1,880	157.0
Small-Mesh Multispecies	2,404	123.0
Spiny Dogfish	3,362	124
Summer Flounder, Scup, Black Sea Bass	85	16

Table 92: Total Number of Trips and Vessels by Species, RHS 1  
NHMA Merge, 2008

Species	Number of Trips	Number of Vessels
Am. Plaice Flounder	4,742	213
American Lobster	11,776	322
American Shad	7.0	3.0
Atlantic Halibut	85	54
Atlantic Herring	309	37.0
Atlantic Mackerel	377.0	52
Black Sea Bass	23	7
Bluefish	443	74.0
Butterfish	60	5
Cod	12,930	281
Cusk	941	155
Dogfish Spiny	3,362	124
Haddock	6,377	236
Jonah Crab	484	26.0
King Whiting	16	6.0
Longfin Squid	72	11.0
Monkfish	6,436	222.0
Nk Crab	68	7.0
Nk Shrimp	12	4
Ocean Pout	21	4.0
Other Fish	6.0	3.0
Pandalid Shrimp	516	38
Pollock	6,281	222
Red Hake	408	25
Redfish	1,953	163
Rock Crab	65.0	12.0
Sand-Dab Flounder	246	49
Sea Raven	34	3
Sea Scallop	311	40
Silver Hake	2,191	121
Skates	1,880	157.0
Striped Bass	109	24.0
Summer Flounder	78	10
Tautog	11.0	4.0
White Hake	3,197	180



Species	Number of Trips	Number of Vessels
Winter Flounder	8,607	205
Witch Flounder	3,613	202
Wolffishes	1,659	190
Yellowtail Flounder	7,356	197

Table 93: Total Number of Trips and Vessels by Port, RHS 1 NHMA Merge, 2008

Port	Number of Trips	Number of Vessels
Barnstable, MA	4	3.0
Beverly, MA	991	8
Boston, MA	206.0	22
Cape Porpoise, ME	74	6
Gloucester, MA	11,695	212
Hampton, NH	376	12
Hull, MA	463	6
Kennebunkport, ME	44	5
Kittery, ME	640	12
Marblehead, MA	596	10
Marshfield, MA	791	22
Nahant, MA	165	3
New Bedford, MA	23	15.0
New Castle, NH	251	3
Newburyport, MA	304	9
Plymouth, MA	79	9
Portland, ME	137	33
Portsmouth, NH	1,301	22
Provincetown, MA	149	15
Rockport, MA	1,432	18
Rye, NH	901	17
Salisbury, MA	21	3
Sandwich, MA	67	5.0
Scituate, MA	1,679	32
Seabrook, NH	1,474	33
York Harbor, ME	386	3
York, ME	219	5

Table 94: Total Number of Trips and Vessels by Year, RHS 2 Cape Merge

Year	Number of Trips	Number of Vessels
2019	4,066	248
2018	5,741	288
2017	6,484	330
2016	7,085	359
2015	5,902	340
2014	6,520	343.0
2013	5,657	366.0
2012	7,002	331

Year	Number of Trips	Number of Vessels
2011	6,656	308.0
2010	5,077	336
2009	3,868	328
2008	4,031	373

Table 95: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 2 Cape Merge, 2019

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Atlantic Herring	10.92	9.04	9.81
Bluefin Tuna	7.18	5.73	3.58
Silver Hake	6.74	4.94	0.83
Red Hake	2.79	1.42	1.08
Spiny Dogfish	2.16	1.95	0.95
Atlantic Mackerel	1.45	1.09	0.73
Atlantic Cod	1.20	1.29	0.80
Atlantic Striped Bass	1.02	0.95	1.63
Atlantic Halibut	1.00	0.92	0.76
Witch Flounder	0.95	0.93	0.68

Table 96: Total Number of Trips and Vessels by FMP, RHS 2 Cape Merge, 2019

FMP	Number of Trips	Number of Vessels
American Lobster	1,507	98
Atlantic Herring	44.0	9.0
Bluefish	293.0	69.0
Highly Migratory Species	25.0	14.0
Jonah Crab	19	8.0
Mackerel, Squid, and Butterfish	441	86
Monkfish	1,463	116
No Federal FMP	770	117.0
Northeast Multispecies	1,107	69
Sea Scallop	440	44
Skates	1,060	73
Small-Mesh Multispecies	408	82.0
Spiny Dogfish	645	24.0
Summer Flounder, Scup, Black Sea Bass	521	87

Table 97: Total Number of Trips and Vessels by Species, RHS 2 Cape Merge, 2019

Species	Number of Trips	Number of Vessels
Am. Plaice Flounder	720	50
American Eel	6.0	4.0
American Lobster	1,507	98
Atlantic Halibut	290	46

Species	Number of Trips	Number of Vessels
Atlantic Herring	44.0	9.0
Atlantic Mackerel	203	48
Black Sea Bass	236	71
Bluefin Tuna	22	11.0
Bluefish	293.0	69.0
Butterfish	202	48
Channeled Whelk	148	12.0
Cod	835	57.0
Conger Eel	17	14
Cusk	235	39
Dogfish Smooth	31	9.0
Dogfish Spiny	645	24.0
Haddock	941	60
Horseshoe Crab	94	9.0
Illex Squid	14.0	3.0
Jonah Crab	19	8.0
King Whiting	157	22.0
Knobbed Whelk	175	13.0
Longfin Squid	313	66
Monkfish	1,463	116
Nk Crab	3.0	3.0
Pollock	855	55
Red Hake	97	31
Redfish	768	52
Scup	320	72
Sea Robins	12.0	4.0
Sea Scallop	440	44
Silver Hake	403	79.0
Skates	1,060	73
Striped Bass	91	20.0
Summer Flounder	448	79
Tautog	23.0	14.0
Triggerfish	4	4.0
White Hake	790	54
Winter Flounder	223	36.0
Witch Flounder	745	51
Yellowtail Flounder	155	26.0

Table 98: Total Number of Trips and Vessels by Port, RHS 2 Cape Merge, 2019

Port	Number of Trips	Number of Vessels
Beaufort, NC	6.0	6.0
Boston, MA	285	13.0
Chatham, MA	1,690	48
Dennis, MA	35	3
Gloucester, MA	367	34
Harwichport, MA	327	20
Hyannis, MA	160	13
Montauk, NY	31.0	5.0
New Bedford, MA	335	41

Port	Number of Trips	Number of Vessels
Orleans, MA	29	3
Point Judith, RI	186	37
Portland, ME	20	5
Provincetown, MA	365	15.0
Rockland, ME	5.0	3.0
Scituate, MA	5	3
Stonington, CT	22.0	4.0
Wanchese, NC	5.0	5.0

Table 99: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 2 Cape Merge, 2018

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Spiny Dogfish	10.91	10.34	2.80
Bluefin Tuna	9.32	10.25	5.54
Atlantic Herring	7.63	8.58	7.31
Silver Hake	6.94	5.67	1.51
Red Hake	3.88	3.74	1.51
Atlantic Mackerel	3.29	3.88	1.70
Atlantic Cod	1.51	1.47	1.25
Atlantic Halibut	1.45	1.54	1.06
Atlantic Striped Bass	1.27	0.95	2.58
Witch Flounder	0.81	0.77	1.05

Table 100: Total Number of Trips and Vessels by FMP, RHS 2 Cape Merge, 2018

FMP	Number of Trips	Number of Vessels
American Lobster	2,149	117
Atlantic Herring	86	13.0
Bluefish	205	69
Golden and Blueline Tilefish	3	3
Highly Migratory Species	73	17.0
Jonah Crab	78	16.0
Mackerel, Squid, and Butterfish	517	106.0
Monkfish	1,782	114.0
No Federal FMP	1,302	132.0
Northeast Multispecies	1,301.0	83
Sea Scallop	189	45
Skates	1,510	77.0
Small-Mesh Multispecies	571	86
Spiny Dogfish	1,292	34.0
Summer Flounder, Scup, Black Sea Bass	536	84

Table 101: Total Number of Trips and Vessels by Species, RHS 2 Cape Merge, 2018

Species	Number of Trips	Number of Vessels
Am. Plaice Flounder	860	58
American Lobster	2,149	117
Atlantic Halibut	255.0	45
Atlantic Herring	86	13.0
Atlantic Mackerel	295.0	72
Black Sea Bass	236	69
Bluefin Tuna	73	17
Bluefish	205	69
Bonito	5	4
Butterfish	235	61
Channeled Whelk	346	18.0
Cod	917	72.0
Conger Eel	7	6
Cusk	338	36
Dogfish Smooth	16	8
Dogfish Spiny	1,292	34.0
Haddock	1,125	73
Horseshoe Crab	191	12.0
Illex Squid	52.0	8.0
John Dory	5	5.0
Jonah Crab	78	16.0
King Whiting	289	24.0
Knobbed Whelk	316	17.0
Longfin Squid	327	77.0
Monkfish	1,782	114.0
Nk Crab	8	3.0
Pollock	986	67
Red Hake	118	38
Redfish	873.0	55.0
Scup	315	74
Sea Robins	7	7
Sea Scallop	189	45
Silver Hake	567	86.0
Skates	1,510	77.0
Squeteague Weakfish	19	12
Striped Bass	129	28.0
Summer Flounder	386	63
Tautog	44	15.0
White Hake	875	59
Winter Flounder	220	39.0
Witch Flounder	832	56
Yellowtail Flounder	169	35.0

Table 102: Total Number of Trips and Vessels by Port, RHS 2 Cape Merge, 2018

Port	Number of Trips	Number of Vessels
Beverly, MA	4	3.0

Port	Number of Trips	Number of Vessels
Boston, MA	470	14
Chatham, MA	3,139	67
Dennis, MA	73	6
Gloucester, MA	432	34
Harwichport, MA	215	19
Hyannis, MA	153	15
Marshfield, MA	33	3
Montauk, NY	16	7.0
New Bedford, MA	305	50
Orleans, MA	73	4
Plymouth, MA	27	3.0
Point Judith, RI	151	41.0
Portland, ME	32	13
Provincetown, MA	414	23
Sandwich, MA	26	3
Scituate, MA	3	3
Stonington, CT	17.0	3.0
Wellfleet, MA	36	3
Yarmouth, MA	10	3

Table 103: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 2 Cape Merge, 2017

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Spiny Dogfish	14.21	13.41	2.93
Silver Hake	7.62	5.45	1.13
Bluefin Tuna	7.00	7.19	4.91
Atlantic Mackerel	6.30	8.95	2.81
Atlantic Herring	3.06	3.97	3.44
Atlantic Cod	1.45	1.60	1.08
Red Hake	1.32	0.87	0.71
Witch Flounder	1.30	1.26	0.95
Atlantic Striped Bass	1.11	1.04	2.46
Atlantic Halibut	0.90	1.23	0.61

Table 104: Total Number of Trips and Vessels by FMP, RHS 2 Cape Merge, 2017

FMP	Number of Trips	Number of Vessels
American Lobster	2,249	135
Atlantic Herring	87	17.0
Bluefish	431	107
Highly Migratory Species	27.0	14.0
Jonah Crab	116	14.0
Mackerel, Squid, and Butterfish	977	139
Monkfish	1,663	138.0
No Federal FMP	1,212	163.0
Northeast Multispecies	1,376	99
Sea Scallop	326	49

FMP	Number of Trips	Number of Vessels
Skates	1,448	100.0
Small-Mesh Multispecies	695	110.0
Spiny Dogfish	1,491.0	43.0
Summer Flounder, Scup, Black Sea Bass	531	92

Table 105: Total Number of Trips and Vessels by Species, RHS 2  
Cape Merge, 2017

Species	Number of Trips	Number of Vessels
Am. Plaice Flounder	863	73
American Lobster	2,249	135
Atlantic Halibut	230	54.0
Atlantic Herring	87	17.0
Atlantic Mackerel	628	98.0
Black Sea Bass	210	75
Bluefin Tuna	24	12
Bluefish	431	107
Bonito	8	6
Butterfish	359.0	74.0
Channeled Whelk	288	13.0
Cod	891	88.0
Conger Eel	7	5
Cusk	318	51
Dogfish Smooth	77	18
Dogfish Spiny	1,491.0	43.0
Haddock	1,098	85
Horseshoe Crab	83	12.0
Illex Squid	24.0	5.0
Jonah Crab	116	14.0
King Whiting	209.0	29.0
Knobbed Whelk	225	16.0
Longfin Squid	463	86
Monkfish	1,663	138.0
Pollock	1,034	83
Red Hake	158	47
Redfish	881.0	69.0
Scup	359	78
Sea Robins	21	9
Sea Scallop	326	49
Silver Hake	680	109
Skates	1,448	100.0
Striped Bass	169	42
Summer Flounder	340	67
Tautog	39	15.0
Triggerfish	7	6
White Hake	929	75.0
Winter Flounder	212	41
Witch Flounder	779	70
Yellowtail Flounder	158	35.0

Table 106: Total Number of Trips and Vessels by Port, RHS 2 Cape Merge, 2017

Port	Number of Trips	Number of Vessels
Boston, MA	433	20.0
Cape May, NJ	11	6.0
Chatham, MA	3,397	61
Dennis, MA	100	7
Gloucester, MA	392	39
Harwichport, MA	272	19
Hyannis, MA	116	16
Marshfield, MA	66	8
Montauk, NY	45.0	7.0
Nantucket, MA	34	5
New Bedford, MA	588	79
Orleans, MA	66	4
Plymouth, MA	84	5
Point Judith, RI	265	55.0
Point Pleasant, NJ	12	5
Portland, ME	17	6
Provincetown, MA	422	22
Wellfleet, MA	66	3
Yarmouth, MA	12	3

Table 107: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 2 Cape Merge, 2016

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Spiny Dogfish	30.12	28.04	7.45
Silver Hake	6.88	6.37	1.28
Atlantic Striped Bass	4.62	5.24	5.00
Atlantic Herring	4.44	5.46	3.84
Atlantic Mackerel	3.92	3.79	1.99
Bluefin Tuna	3.58	3.77	1.41
Atlantic Cod	1.89	1.77	1.33
Red Hake	1.21	0.74	1.05
Witch Flounder	1.13	1.34	1.27
Atlantic Halibut	1.08	1.00	1.09

Table 108: Total Number of Trips and Vessels by FMP, RHS 2 Cape Merge, 2016

FMP	Number of Trips	Number of Vessels
American Lobster	2,449	133
Atlantic Herring	83	16.0
Bluefish	386	101
Highly Migratory Species	18.0	9.0
Jonah Crab	80	19.0
Mackerel, Squid, and Butterfish	702	119
Monkfish	1,948	144



FMP	Number of Trips	Number of Vessels
No Federal FMP	1,014	147.0
Northeast Multispecies	1,447	109
Sea Scallop	391	73.0
Skates	1,341	91.0
Small-Mesh Multispecies	494	84.0
Spiny Dogfish	2,172	53.0
Summer Flounder, Scup, Black Sea Bass	486	88
Surfclam, Ocean Quahog	3	3

Table 109: Total Number of Trips and Vessels by Species, RHS 2  
Cape Merge, 2016

Species	Number of Trips	Number of Vessels
Am. Plaice Flounder	908	69
American Lobster	2,449	133
Atlantic Halibut	200	56
Atlantic Herring	83	16.0
Atlantic Mackerel	463	79.0
Bay Scallop	11	4
Black Sea Bass	103	34
Bluefin Tuna	18	9
Bluefish	386	101
Butterfish	255	68
Channeled Whelk	277	16.0
Cod	1,052	97.0
Conger Eel	4	4
Cusk	312	44
Dogfish Smooth	11	6.0
Dogfish Spiny	2,172	53.0
Haddock	1,183	89
Horseshoe Crab	113	14
Jonah Crab	80	19.0
King Whiting	42.0	12
Knobbed Whelk	221	13.0
Lightning Whelk	5	4.0
Longfin Squid	356	83
Monkfish	1,947	144
Pollock	1,053	77
Red Hake	133	41
Redfish	872	62
Scup	324	78
Sea Robins	7	5
Sea Scallop	391	73.0
Silver Hake	469	78.0
Skates	1,341	91.0
Squeteague Weakfish	13	8
Striped Bass	186	53
Summer Flounder	370	73
Tautog	13	9.0
White Hake	964	76
Winter Flounder	240	51

Species	Number of Trips	Number of Vessels
Witch Flounder	816	71
Yellowtail Flounder	198	43.0

Table 110: Total Number of Trips and Vessels by Port, RHS 2 Cape Merge, 2016

Port	Number of Trips	Number of Vessels
Boston, MA	479	18.0
Chatham, MA	4,034	69
Dennis, MA	62	7
Gloucester, MA	452	35
Green Harbor, MA	5	3.0
Harwichport, MA	245	21
Hyannis, MA	155	19
Marshfield, MA	98	5
Montauk, NY	16	6.0
Nantucket, MA	19	3
New Bedford, MA	570.0	103.0
Plymouth, MA	29	4
Point Judith, RI	175	50.0
Portland, ME	23	11
Provincetown, MA	451	25
Sandwich, MA	45	4.0
Scituate, MA	9	3
Wellfleet, MA	33	3

Table 111: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 2 Cape Merge, 2015

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Spiny Dogfish	13.25	13.57	3.34
Atlantic Herring	6.37	7.79	5.45
Silver Hake	4.76	4.15	0.74
Atlantic Mackerel	2.14	2.11	1.21
Witch Flounder	1.96	2.02	0.86
Atlantic Cod	1.14	1.17	0.95
Atlantic Halibut	0.95	0.96	0.86
Red Hake	0.88	0.64	0.82
American Lobster	0.77	0.75	0.61
American Plaice	0.77	0.74	0.90

Table 112: Total Number of Trips and Vessels by FMP, RHS 2 Cape Merge, 2015

FMP	Number of Trips	Number of Vessels
American Lobster	2,279	133
Atlantic Herring	60	11.0

FMP	Number of Trips	Number of Vessels
Bluefish	454	92
Highly Migratory Species	33	10.0
Jonah Crab	162	19.0
Mackerel, Squid, and Butterfish	594	108.0
Monkfish	1,613	147
No Federal FMP	994	146.0
Northeast Multispecies	1,395	112
Sea Scallop	507	69
Skates	1,082	109
Small-Mesh Multispecies	574	91.0
Spiny Dogfish	1,300	55.0
Summer Flounder, Scup, Black Sea Bass	595	89
Surfclam, Ocean Quahog	6	3.0

Table 113: Total Number of Trips and Vessels by Species, RHS 2  
Cape Merge, 2015

Species	Number of Trips	Number of Vessels
Am. Plaice Flounder	872	82
American Lobster	2,279	133
Atlantic Halibut	259	60.0
Atlantic Herring	60	11.0
Atlantic Mackerel	289	68.0
Black Sea Bass	130	46
Bluefish	454	92
Butterfish	321	67.0
Channeled Whelk	278	11.0
Cod	1,162	105.0
Conger Eel	25	17
Cusk	354	60.0
Dogfish Smooth	41	12.0
Dogfish Spiny	1,300	55.0
Haddock	1,088	90
Horseshoe Crab	58	7
Illex Squid	7.0	5.0
Jonah Crab	162	19.0
King Whiting	83	11.0
Knobbed Whelk	246	14.0
Lightning Whelk	5.0	3.0
Longfin Squid	393	75.0
Monkfish	1,612	147
Pollock	1,040	90
Red Hake	130	40
Redfish	913	79
Rock Crab	27	5.0
Scup	384	65
Sea Robins	16	10
Sea Scallop	507	69
Silver Hake	550	88.0
Skates	1,081	109
Striped Bass	77	34

Species	Number of Trips	Number of Vessels
Summer Flounder	514	83
Surf Clam	6	3.0
Tautog	24.0	11.0
White Hake	928	85.0
Winter Flounder	254	54.0
Witch Flounder	790	76
Yellowtail Flounder	225	55.0

Table 114: Total Number of Trips and Vessels by Port, RHS 2 Cape Merge, 2015

Port	Number of Trips	Number of Vessels
Boston, MA	452	23.0
Chatham, MA	2,707	60
Dennis, MA	74	5
Fairhaven, MA	7	4.0
Gloucester, MA	330	41
Harwichport, MA	262	14
Hyannis, MA	158	12.0
Marshfield, MA	135	6
Montauk, NY	35	6.0
Nantucket, MA	23	3
New Bedford, MA	585	83
Point Judith, RI	299	48
Portland, ME	38	13
Provincetown, MA	532	25
Sandwich, MA	20	3.0
Scituate, MA	21	3
Stonington, CT	7.0	4

Table 115: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 2 Cape Merge, 2014

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Spiny Dogfish	12.48	12.32	3.42
Atlantic Herring	4.94	5.71	5.28
Witch Flounder	2.58	2.73	1.16
Atlantic Cod	1.31	1.26	1.17
Silver Hake	1.24	0.93	0.53
Atlantic Mackerel	1.11	1.34	0.47
American Plaice	1.10	1.23	1.14
Haddock	1.10	1.05	1.05
Atlantic Striped Bass	1.04	1.07	1.61
Atlantic Halibut	1.01	1.04	1.28

Table 116: Total Number of Trips and Vessels by FMP, RHS 2  
Cape Merge, 2014

FMP	Number of Trips	Number of Vessels
American Lobster	2,429	130.0
Atlantic Herring	67	12.0
Bluefish	424	92
Jonah Crab	54	12
Mackerel, Squid, and Butterfish	450	94.0
Monkfish	1,715	142
No Federal FMP	1,543	151.0
Northeast Multispecies	1,611	109
Sea Scallop	653	75
Skates	1,055	106.0
Small-Mesh Multispecies	503	83.0
Spiny Dogfish	1,534	59.0
Summer Flounder, Scup, Black Sea Bass	592	89
Surfclam, Ocean Quahog	22	9

Table 117: Total Number of Trips and Vessels by Species, RHS 2  
Cape Merge, 2014

Species	Number of Trips	Number of Vessels
Am. Plaice Flounder	1,107	83
American Lobster	2,429	130.0
Atlantic Halibut	290	60.0
Atlantic Herring	67	12.0
Atlantic Mackerel	155	49.0
Black Sea Bass	143	46
Bluefish	424	92
Butterfish	270	61
Channeled Whelk	557	16.0
Cod	1,380	103.0
Conchs	26	4.0
Conger Eel	27	20
Cusk	535	62
Dogfish Smooth	32	12.0
Dogfish Spiny	1,534	59.0
Haddock	1,199	83
Hagfish	12.0	3
Horseshoe Crab	142	9.0
Illex Squid	13.0	4.0
Jonah Crab	54	12
King Whiting	217.0	22.0
Knobbed Whelk	327	16.0
Lightning Whelk	13	5.0
Longfin Squid	335	70.0
Monkfish	1,715	142
Pollock	1,234	89
Red Hake	102	38
Redfish	1,054	74
Scup	430	69

Species	Number of Trips	Number of Vessels
Sea Robins	18	7
Sea Scallop	653	75
Silver Hake	477	82.0
Skates	1,055	106.0
Squeteague Weakfish	10	6
Striped Bass	119	37
Summer Flounder	509	80
Surf Clam	17	7.0
Tautog	13.0	7.0
White Hake	1,130	80
Winter Flounder	360	70.0
Witch Flounder	1,054	79
Yellowtail Flounder	302	62

Table 118: Total Number of Trips and Vessels by Port, RHS 2 Cape Merge, 2014

Port	Number of Trips	Number of Vessels
Boston, MA	530	21.0
Chatham, MA	2,762	65
Dennis, MA	42	5
Gloucester, MA	386	41
Harwichport, MA	523	16
Hyannis, MA	228	17
Montauk, NY	19	4.0
Nantucket, MA	17	8
New Bedford, MA	698	98.0
Orleans, MA	121	4
Plymouth, MA	45.0	3.0
Point Judith, RI	226	48.0
Portland, ME	59	11
Provincetown, MA	508	26
Sandwich, MA	53	4
Scituate, MA	14	4
Stonington, CT	5.0	4.0
Wellfleet, MA	52	3

Table 119: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 2 Cape Merge, 2013

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Atlantic Mackerel	5.61	7.06	0.72
Spiny Dogfish	4.61	6.01	2.18
Atlantic Striped Bass	4.09	5.56	6.74
Witch Flounder	2.74	2.91	1.33
Atlantic Herring	2.02	2.27	1.85
Atlantic Halibut	1.64	1.83	1.02
American Plaice	1.42	1.70	1.23
Haddock	1.12	1.24	1.11

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Atlantic Cod	1.12	1.30	1.25
Silver Hake	1.07	0.75	0.60

Table 120: Total Number of Trips and Vessels by FMP, RHS 2  
Cape Merge, 2013

FMP	Number of Trips	Number of Vessels
American Lobster	2,392	138.0
Atlantic Herring	53	12.0
Bluefish	376	102
Golden and Blueline Tilefish	5	5.0
Jonah Crab	62	16.0
Mackerel, Squid, and Butterfish	267	71.0
Monkfish	1,928	145.0
No Federal FMP	1,550	158.0
Northeast Multispecies	1,814	118
Sea Scallop	542	112
Skates	1,126	99.0
Small-Mesh Multispecies	496	75
Spiny Dogfish	1,037	44.0
Summer Flounder, Scup, Black Sea Bass	324	68
Surfclam, Ocean Quahog	41	6.0

Table 121: Total Number of Trips and Vessels by Species, RHS 2  
Cape Merge, 2013

Species	Number of Trips	Number of Vessels
Am. Plaice Flounder	1,293	88
American Lobster	2,392	138.0
Atlantic Halibut	249	63.0
Atlantic Herring	53	12.0
Atlantic Mackerel	124	42
Black Sea Bass	103	39
Bluefish	376	102
Butterfish	124	39
Channeled Whelk	492	16.0
Cod	1,476	108
Conchs	75.0	5.0
Conger Eel	20	14
Cusk	602	64
Dogfish Smooth	8	5
Dogfish Spiny	1,037	44.0
Golden Tilefish	4	4
Haddock	1,329	94
Horseshoe Crab	145.0	8.0
Illex Squid	11.0	8.0
John Dory	3	3.0
Jonah Crab	62	16.0
King Whiting	76	6

Species	Number of Trips	Number of Vessels
Knobbed Whelk	248	15.0
Lightning Whelk	13.0	4
Longfin Squid	173	49
Monkfish	1,928	145.0
Pollock	1,442	95
Quahog	35	3
Red Hake	93	30.0
Redfish	1,200	83
Scup	252	46
Sea Scallop	542	112
Silver Hake	472	72.0
Skates	1,126	99.0
Squeteague Weakfish	18	11
Striped Bass	292	52
Summer Flounder	276	54
Surf Clam	6	3
Tautog	7	6.0
White Hake	1,388	86
Winter Flounder	439	75.0
Witch Flounder	1,277	87
Yellowtail Flounder	365	67

Table 122: Total Number of Trips and Vessels by Port, RHS 2 Cape Merge, 2013

Port	Number of Trips	Number of Vessels
Bass River, MA	16	5
Boston, MA	516	21.0
Chatham, MA	2,439	65
Dennis, MA	31	9.0
Gloucester, MA	471	41
Harwichport, MA	431	17
Hyannis, MA	140	15
Marshfield, MA	63	8.0
Nantucket, MA	15	5
New Bedford, MA	709	110.0
Point Judith, RI	128	34.0
Portland, ME	43	13
Provincetown, MA	295	18.0
Sandwich, MA	60.0	5.0
Scituate, MA	10	3
Wellfleet, MA	38	3
Yarmouth, MA	21	8

Table 123: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 2 Cape Merge, 2012

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Spiny Dogfish	5.90	6.94	3.01



Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Atlantic Striped Bass	5.34	7.68	7.40
Witch Flounder	2.84	3.08	1.22
Atlantic Herring	2.60	3.60	2.00
Silver Hake	1.74	1.33	0.63
White Hake	1.06	1.23	1.27
American Plaice	1.05	1.17	1.19
Pollock	1.01	1.15	1.25
Atlantic Cod	0.94	1.02	1.19
Redfish	0.72	0.79	1.35

Table 124: Total Number of Trips and Vessels by FMP, RHS 2  
Cape Merge, 2012

FMP	Number of Trips	Number of Vessels
American Lobster	2,647	146
Atlantic Herring	51.0	11.0
Bluefish	407	108
Golden and Blueline Tilefish	7.0	5
Highly Migratory Species	32	12.0
Jonah Crab	83	14.0
Mackerel, Squid, and Butterfish	369	90.0
Monkfish	2,059	145
No Federal FMP	1,540	167
Northeast Multispecies	2,011	134.0
Sea Scallop	931	64.0
Skates	1,667	120
Small-Mesh Multispecies	487	81.0
Spiny Dogfish	1,763	55.0
Summer Flounder, Scup, Black Sea Bass	380	81
Surfclam, Ocean Quahog	17	5

Table 125: Total Number of Trips and Vessels by Species, RHS 2  
Cape Merge, 2012

Species	Number of Trips	Number of Vessels
Am. Plaice Flounder	1,361	101
American Lobster	2,647	146
Atlantic Halibut	192	63.0
Atlantic Herring	51.0	11.0
Atlantic Mackerel	121.0	51.0
Black Sea Bass	122	49
Bluefish	407	108
Butterfish	205	58
Channeled Whelk	463	13.0
Cod	1,688	126
Conchs	22	4.0
Conger Eel	13	9
Cusk	669	74
Dogfish Smooth	16	7.0

Species	Number of Trips	Number of Vessels
Dogfish Spiny	1,763	55.0
Golden Tilefish	7	5
Haddock	1,246	106
Horseshoe Crab	58	3
Illex Squid	13.0	5.0
John Dory	15	8.0
Jonah Crab	83	14.0
Knobbed Whelk	128	11.0
Lightning Whelk	12	3
Longfin Squid	321	77.0
Monkfish	2,059	145
Pollock	1,497	107
Quahog	14	3
Red Hake	87	35.0
Redfish	1,292	97.0
Rock Crab	13	3.0
Scup	273	62
Sea Robins	7	5
Sea Scallop	931	64.0
Silver Hake	475	78
Skates	1,667	120
Squeteague Weakfish	3	3
Striped Bass	278	52
Summer Flounder	327	69
White Hake	1,423	98
Winter Flounder	287	67
Witch Flounder	1,359	100
Yellowtail Flounder	587	78

Table 126: Total Number of Trips and Vessels by Port, RHS 2 Cape Merge, 2012

Port	Number of Trips	Number of Vessels
Barnstable, MA	66	11
Boston, MA	540	18.0
Chatham, MA	3,471	66
Gloucester, MA	559	53
Harwichport, MA	523	18
Hyannis, MA	27	6
Montauk, NY	27	7.0
Nantucket, MA	68	5
New Bedford, MA	615	74.0
Orleans, MA	90	8
Plymouth, MA	34	4.0
Point Judith, RI	165	37
Portland, ME	29	12
Provincetown, MA	392	19.0
Sandwich, MA	55.0	3.0
Scituate, MA	9	5
Wellfleet, MA	47	3
Yarmouth, MA	23	4

Table 127: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 2 Cape Merge, 2011

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Offshore Hake	7.79	7.83	0.70
Atlantic Striped Bass	4.82	6.91	6.77
Spiny Dogfish	4.71	6.20	2.98
Atlantic Chub Mackerel	4.31	4.87	2.57
Witch Flounder	3.23	3.51	1.65
Atlantic Herring	2.62	3.07	2.57
Atlantic Cod	1.80	2.14	1.57
Pollock	1.63	1.82	1.76
Redfish	1.53	1.66	1.71
White Hake	1.38	1.59	1.65

Table 128: Total Number of Trips and Vessels by FMP, RHS 2 Cape Merge, 2011

FMP	Number of Trips	Number of Vessels
American Lobster	2,799	161
Atlantic Herring	30	13.0
Bluefish	328	102
Jonah Crab	49	8.0
Mackerel, Squid, and Butterfish	214	73
Monkfish	2,128	130.0
No Federal FMP	1,534	155
Northeast Multispecies	2,284	139.0
Sea Scallop	1,120	40
Skates	1,922	115.0
Small-Mesh Multispecies	479	67.0
Spiny Dogfish	1,120	42
Summer Flounder, Scup, Black Sea Bass	254	79
Surfclam, Ocean Quahog	22	3.0

Table 129: Total Number of Trips and Vessels by Species, RHS 2 Cape Merge, 2011

Species	Number of Trips	Number of Vessels
Am. Plaice Flounder	1,410	101
American Lobster	2,799	161
Atlantic Halibut	149	53
Atlantic Herring	30	13.0
Atlantic Mackerel	66	31.0
Black Sea Bass	103	38
Bluefish	328	102
Butterfish	118	50
Channeled Whelk	242	13.0
Chub Mackerel	5.0	3.0
Cod	1,955	133
Conchs	30	5

Species	Number of Trips	Number of Vessels
Cusk	770	74
Dogfish Smooth	7	3
Dogfish Spiny	1,120	42
Haddock	1,453	111
Horseshoe Crab	55	4
Illex Squid	27	12.0
Jonah Crab	49	8.0
King Whiting	146	12.0
Knobbed Whelk	86	11.0
Lightning Whelk	5	3
Longfin Squid	164	58
Monkfish	2,128	130.0
Offshore Hake	12.0	7.0
Pollock	1,795	120
Quahog	22	3
Red Hake	70	27.0
Redfish	1,311	94
Scup	138	43
Sea Robins	5	5
Sea Scallop	1,120	40
Silver Hake	466	62.0
Skates	1,922	115.0
Striped Bass	275	45
Summer Flounder	194	66
Tautog	6	6.0
White Hake	1,568	107
Winter Flounder	316	74
Witch Flounder	1,408	104
Yellowtail Flounder	764	90

Table 130: Total Number of Trips and Vessels by Port, RHS 2 Cape Merge, 2011

Port	Number of Trips	Number of Vessels
Barnstable, MA	73	11
Boston, MA	514	16.0
Chatham, MA	3,522	64
Dennis, MA	35	8.0
Gloucester, MA	643	48
Harwichport, MA	462	18
Marshfield, MA	59	7
Montauk, NY	11	7.0
Nantucket, MA	32	9
New Bedford, MA	480	57
Newburyport, MA	4	3.0
Orleans, MA	61	7
Plymouth, MA	42	5.0
Point Judith, RI	87	32.0
Portland, ME	21	10
Provincetown, MA	363	19.0
Sandwich, MA	55.0	5.0

Port	Number of Trips	Number of Vessels
Scituate, MA	18	6
Wellfleet, MA	59	3

Table 131: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 2 Cape Merge, 2010

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Spiny Dogfish	4.97	6.39	3.05
Atlantic Striped Bass	4.84	6.10	6.29
Atlantic Herring	4.32	4.41	5.13
Atlantic Halibut	2.70	2.12	1.10
Witch Flounder	2.52	2.64	1.14
Pollock	1.29	1.56	1.27
Atlantic Bluefish	1.04	0.99	0.79
White Hake	1.00	1.16	1.16
Redfish	0.99	1.04	1.28
American Plaice	0.99	1.15	1.14

Table 132: Total Number of Trips and Vessels by FMP, RHS 2 Cape Merge, 2010

FMP	Number of Trips	Number of Vessels
American Lobster	2,506	182
Atlantic Herring	44	11.0
Bluefish	483	92
Highly Migratory Species	20	11.0
Jonah Crab	40	8.0
Mackerel, Squid, and Butterfish	200	61
Monkfish	1,719	159
No Federal FMP	1,295	164.0
Northeast Multispecies	1,846	183
Sea Scallop	513	33.0
Skates	1,296	115
Small-Mesh Multispecies	286	62.0
Spiny Dogfish	703	45.0
Summer Flounder, Scup, Black Sea Bass	298	64

Table 133: Total Number of Trips and Vessels by Species, RHS 2 Cape Merge, 2010

Species	Number of Trips	Number of Vessels
Am. Plaice Flounder	1,086	119
American Lobster	2,506	182
Atlantic Halibut	148	63.0
Atlantic Herring	44	11.0
Atlantic Mackerel	69	26.0
Black Sea Bass	89	37

Species	Number of Trips	Number of Vessels
Bluefish	483	92
Butterfish	118	36
Channeled Whelk	293	12.0
Cod	1,610	167
Conchs	36.0	4.0
Conger Eel	8	7
Cusk	502	87
Dogfish Smooth	8	5.0
Dogfish Spiny	703	45.0
Haddock	1,282	140
Horseshoe Crab	79	6
Illex Squid	4.0	4.0
Jonah Crab	40	8.0
King Whiting	58	8.0
Knobbed Whelk	116	11.0
Longfin Squid	161	48.0
Monkfish	1,719	159
Offshore Hake	9.0	5.0
Pollock	1,369	149
Porbeagle Shark	5	4.0
Red Hake	55	24.0
Redfish	939.0	115.0
Sand-Dab Flounder	4	4.0
Scup	207	43
Sea Robins	4	4
Sea Scallop	513	33.0
Silver Hake	276	59
Skates	1,296	115
Striped Bass	281	44.0
Summer Flounder	253	56
Tautog	8	4.0
White Hake	1,164	125
Winter Flounder	265	81
Witch Flounder	1,067	120
Wolffishes	50	34
Yellowtail Flounder	579	108

Table 134: Total Number of Trips and Vessels by Port, RHS 2 Cape Merge, 2010

Port	Number of Trips	Number of Vessels
Barnstable, MA	210	20
Boston, MA	363	21.0
Chatham, MA	2,505	61
Gloucester, MA	437	73
Harwichport, MA	390	17
Marshfield, MA	10	7
Montauk, NY	8	4.0
Nantucket, MA	47	18
Nauset, MA	72	3
New Bedford, MA	369	61

Port	Number of Trips	Number of Vessels
Orleans, MA	109	5
Plymouth, MA	14	6
Point Judith, RI	85	27.0
Portland, ME	16	6
Provincetown, MA	274	21.0
Sandwich, MA	47.0	6.0
Scituate, MA	28	9
Truro, MA	15	3

Table 135: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 2 Cape Merge, 2009

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Spiny Dogfish	2.46	3.00	1.15
Atlantic Wolffish	1.87	2.33	0.98
Witch Flounder	1.74	1.93	0.69
Atlantic Halibut	1.50	1.31	0.74
American Lobster	0.83	0.91	0.63
Redfish	0.73	0.82	0.70
Pollock	0.71	0.87	0.72
American Plaice	0.61	0.68	0.68
All Others	0.56	0.32	0.42
Monkfish	0.52	0.58	0.32

Table 136: Total Number of Trips and Vessels by FMP, RHS 2 Cape Merge, 2009

FMP	Number of Trips	Number of Vessels
American Lobster	1,962	184.0
Atlantic Herring	6	5.0
Bluefish	230	75
Golden and Blueline Tilefish	5	4.0
Jonah Crab	33	10.0
Mackerel, Squid, and Butterfish	276	82.0
Monkfish	1,409	174
No Federal FMP	1,289	181.0
Northeast Multispecies	1,395	186
Sea Scallop	469	40.0
Skates	880	109.0
Small-Mesh Multispecies	465	97.0
Spiny Dogfish	629	52.0
Summer Flounder, Scup, Black Sea Bass	289	77

Table 137: Total Number of Trips and Vessels by Species, RHS 2 Cape Merge, 2009

Species	Number of Trips	Number of Vessels
Am. Plaice Flounder	915	137

Species	Number of Trips	Number of Vessels
American Lobster	1,962	184.0
Atlantic Halibut	178	66.0
Atlantic Herring	6	5.0
Atlantic Mackerel	71	33.0
Bay Scallop	28	6
Black Sea Bass	28	17
Bluefish	230	75
Butterfish	171	55
Channeled Whelk	340	11.0
Cod	1,266	176
Conchs	34	3.0
Cusk	493	95
Dogfish Smooth	24.0	13.0
Dogfish Spiny	629	52.0
Golden Tilefish	5	4.0
Haddock	946	140
Horseshoe Crab	113	5.0
Illex Squid	6.0	4.0
Jonah Crab	33	10.0
King Whiting	48	10.0
Knobbed Whelk	148	10.0
Longfin Squid	240	71.0
Monkfish	1,409	174
Nk Flounders	4.0	3
Offshore Hake	16.0	7.0
Pollock	1,051	131
Red Hake	86	40.0
Redfish	759	106
Rock Crab	7	5.0
Sand-Dab Flounder	56	26
Scup	184	54
Sea Robins	6	4
Sea Scallop	469	40.0
Silver Hake	438	93
Skates	880	109.0
Striped Bass	55	25
Summer Flounder	239	69
Tautog	10.0	7.0
White Hake	958	124
Winter Flounder	307	108.0
Witch Flounder	902	127
Wolffishes	339	83
Yellowtail Flounder	584	117

Table 138: Total Number of Trips and Vessels by Port, RHS 2 Cape Merge, 2009

Port	Number of Trips	Number of Vessels
Barnstable, MA	167.0	15
Boston, MA	245	20.0
Chatham, MA	1,838	63



Port	Number of Trips	Number of Vessels
Gloucester, MA	312	65
Harwichport, MA	278	14
Marshfield, MA	9	5
Montauk, NY	14	5.0
Nantucket, MA	10	9
New Bedford, MA	192	55
Newport, RI	8.0	6.0
Orleans, MA	141	4
Point Judith, RI	154.0	42.0
Provincetown, MA	220	18.0
Sandwich, MA	65	6.0
Scituate, MA	45	9

Table 139: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 2 Cape Merge, 2008

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Atlantic Herring	3.43	3.83	3.70
Witch Flounder	2.91	3.39	1.14
Spiny Dogfish	2.01	2.38	1.54
Atlantic Wolffish	1.77	2.26	1.58
Atlantic Halibut	1.72	1.63	1.46
Redfish	1.09	1.28	1.24
Pollock	1.01	0.94	1.19
American Lobster	0.99	1.07	0.78
White Hake	0.96	0.81	1.16
American Plaice	0.76	0.90	1.16

Table 140: Total Number of Trips and Vessels by FMP, RHS 2 Cape Merge, 2008

FMP	Number of Trips	Number of Vessels
American Lobster	2,238	208
Atlantic Herring	30	12.0
Bluefish	289	68.0
Golden and Blueline Tilefish	9	8
Jonah Crab	7	5.0
Mackerel, Squid, and Butterfish	291	80
Monkfish	1,640	210.0
No Federal FMP	1,378	176
Northeast Multispecies	1,624	214
Sea Scallop	383	68
Skates	1,072	136.0
Small-Mesh Multispecies	351	77.0
Spiny Dogfish	400	32
Summer Flounder, Scup, Black Sea Bass	342	92
Surfclam, Ocean Quahog	6	4.0

Table 141: Total Number of Trips and Vessels by Species, RHS 2  
Cape Merge, 2008

Species	Number of Trips	Number of Vessels
Am. Plaice Flounder	1,015	163
American Lobster	2,238	208
American Shad	4.0	3.0
Atlantic Halibut	174	73
Atlantic Herring	30	12.0
Atlantic Mackerel	59.0	24
Black Sea Bass	134	46
Bluefish	289	68.0
Butterfish	134	46
Channeled Whelk	374	15.0
Cod	1,475	194
Conchs	7	3.0
Conger Eel	6	6
Cusk	402	92
Dogfish Smooth	9	4.0
Dogfish Spiny	400	32
Golden Tilefish	9	8.0
Haddock	1,099	164
Horseshoe Crab	98	6.0
Illex Squid	6.0	4.0
Jonah Crab	7	5.0
King Whiting	36	10.0
Knobbed Whelk	150	10.0
Longfin Squid	239	62.0
Monkfish	1,640	210.0
Offshore Hake	6	4.0
Pollock	1,210	164
Quahog	5	3
Red Hake	94	43
Redfish	761	119
Rock Crab	9.0	6.0
Sand-Dab Flounder	106	39
Scup	75	17
Sea Scallop	383	68
Silver Hake	320	70
Skates	1,072	136.0
Striped Bass	82	21.0
Summer Flounder	282	82
Tautog	15.0	8.0
White Hake	975	148
Winter Flounder	767	144
Witch Flounder	1,053	162
Wolffishes	499	106
Yellowtail Flounder	716	131

Table 142: Total Number of Trips and Vessels by Port, RHS 2 Cape Merge, 2008

Port	Number of Trips	Number of Vessels
Barnstable, MA	207	17.0
Boston, MA	212.0	22
Chatham, MA	1,666	59
Falmouth, MA	8.0	4.0
Gloucester, MA	326	71
Harwichport, MA	246	16
Marshfield, MA	9	7
Montauk, NY	16	8.0
Nantucket, MA	18	13
New Bedford, MA	399	81.0
Newport, RI	14	5
Orleans, MA	157	7
Point Judith, RI	158	37.0
Portland, ME	44	15
Provincetown, MA	302	27
Sandwich, MA	45	7.0
Scituate, MA	37	8

Table 143: Total Number of Trips and Vessels by Year, RHS 3 RI Merge

Year	Number of Trips	Number of Vessels
2019	9,903	379
2018	13,393	404
2017	15,362	478
2016	15,861	463
2015	13,966	437
2014	15,057	468.0
2013	16,157	466.0
2012	15,364	442
2011	15,333	432.0
2010	15,752	432
2009	15,455	438
2008	16,245	468

Table 144: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 3 RI Merge, 2019

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Tautog	24.75	25.09	26.14
Weakfish	22.93	23.84	8.08
Silver Hake	19.49	24.31	7.28
Red Hake	19.16	28.93	12.83
Atlantic Bluefish	18.13	20.67	13.15
Atlantic Striped Bass	16.62	15.65	21.91
Offshore Hake	13.61	19.36	1.77

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Scup	13.34	16.54	12.64
Albacore Tuna	11.74	9.76	4.04
Winter Flounder	9.21	8.02	6.54

Table 145: Total Number of Trips and Vessels by FMP, RHS 3 RI Merge, 2019

FMP	Number of Trips	Number of Vessels
American Lobster	1,439	80
Atlantic Herring	121.0	22.0
Bluefish	2,672.0	156.0
Golden and Blueline Tilefish	35	21
Highly Migratory Species	34.0	9.0
Jonah Crab	571	43.0
Mackerel, Squid, and Butterfish	4,276	121
Monkfish	2,608	158
No Federal FMP	3,565	195.0
Northeast Multispecies	950	80
Sea Scallop	669	105
Skates	3,279	123
Small-Mesh Multispecies	3,520	107.0
Spiny Dogfish	191	30.0
Summer Flounder, Scup, Black Sea Bass	6,859	233
Surfclam, Ocean Quahog	91	8

Table 146: Total Number of Trips and Vessels by Species, RHS 3 RI Merge, 2019

Species	Number of Trips	Number of Vessels
Albacore Tuna	28	3.0
Am. Plaice Flounder	28	3
American Eel	26.0	10.0
American Lobster	1,439	80
American Shad	27	6
Atlantic Herring	121.0	22.0
Atlantic Mackerel	817	79
Black Drum	5	3
Black Sea Bass	3,415	198
Bluefish	2,672.0	156.0
Blueline Tilefish	8	8.0
Bonito	206	45
Butterfish	3,218	90
Channeled Whelk	221	16.0
Chub Mackerel	21.0	4.0
Clearnose Skate	11	4
Cod	273	50.0
Conchs	52	6
Conger Eel	187	56
Cunner	113	31

Species	Number of Trips	Number of Vessels
Dogfish Smooth	794	35.0
Dogfish Spiny	191	30.0
Fourspot Flounder	22	4.0
Golden Tilefish	28	15
Haddock	52	17
Harvest Fish	7	5
Horseshoe Crab	26	3.0
Illex Squid	8.0	3.0
John Dory	5	4
Jonah Crab	571	43.0
King Whiting	250	36.0
Knobbed Whelk	55	8.0
Little Tuna	31	6
Longfin Squid	3,873	105
Mantis Shrimp	27	4
Menhaden	6	5.0
Monkfish	2,602	158
Mulletts	12	3
Nk Crab	7.0	3.0
Nk Eel	15.0	8.0
Nk Seatrout	79	14
Offshore Hake	14.0	5.0
Pollock	14	8
Red Hake	2,380	91
Rock Crab	285	16.0
Scup	4,564	192
Sea Robins	224.0	35.0
Sea Scallop	669	105
Silver Hake	3,343	96.0
Skates	3,274	123
Spanish Mackerel	9.0	3.0
Spot	64	8
Spotted Weakfish	35.0	5.0
Squeteague Weakfish	573	62
Striped Bass	710	72.0
Summer Flounder	5,502	183
Tautog	608.0	93.0
Triggerfish	111	25.0
White Hake	38	8
Winter Flounder	805	56.0
Witch Flounder	42	15
Yellowtail Flounder	240	29.0

Table 147: Total Number of Trips and Vessels by Port, RHS 3 RI Merge, 2019

Port	Number of Trips	Number of Vessels
Beaufort, NC	30.0	16.0
Cape May, NJ	6	5
Fairhaven, MA	24	9
Hampton Bay, NY	5	3.0

Port	Number of Trips	Number of Vessels
Hampton, VA	8	6
Little Compton, RI	484	13
Menemsha, MA	53	5
Montauk, NY	2,432.0	70.0
New Bedford, MA	667	99
New London, CT	136	8
New Shoreham, RI	61	3
Newport News, VA	12	11
Newport, RI	335	10
Point Judith, RI	4,746	117
Point Pleasant, NJ	29	11
Shinnecock, NY	6.0	3
Stonington, CT	406.0	17.0
Wanchese, NC	6.0	5.0
Westport, MA	244	11

Table 148: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 3 RI Merge, 2018

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Atlantic Bluefish	27.94	25.80	12.55
Atlantic Striped Bass	27.48	37.69	15.59
Tautog	23.32	25.93	29.01
Red Hake	16.25	22.08	10.97
Scup	12.49	18.71	14.55
Albacore Tuna	11.18	10.67	4.48
Spot	11.16	13.02	5.15
Butterfish	11.09	11.32	8.85
Weakfish	9.78	11.19	5.35
Winter Flounder	7.59	7.95	7.99

Table 149: Total Number of Trips and Vessels by FMP, RHS 3 RI Merge, 2018

FMP	Number of Trips	Number of Vessels
American Lobster	2,216	94
Atlantic Herring	162	37.0
Bluefish	2,701	183
Golden and Blueline Tilefish	62	33
Highly Migratory Species	54	16.0
Jonah Crab	1,118	55.0
Mackerel, Squid, and Butterfish	5,225	151.0
Monkfish	3,274	190.0
No Federal FMP	5,035	225.0
Northeast Multispecies	1,306.0	101
Sea Scallop	602	86
Skates	3,955	157.0
Small-Mesh Multispecies	3,867	121
Spiny Dogfish	262	45.0

FMP	Number of Trips	Number of Vessels
Summer Flounder, Scup, Black Sea Bass	9,141	280
Surfclam, Ocean Quahog	92	10.0

Table 150: Total Number of Trips and Vessels by Species, RHS 3 RI Merge, 2018

Species	Number of Trips	Number of Vessels
Albacore Tuna	43	8.0
Am. Plaice Flounder	22	8
Amber Jack	28	9
American Eel	97	20.0
American Lobster	2,216	94
American Shad	12	6
Atlantic Croaker	8	6
Atlantic Herring	162	37.0
Atlantic Mackerel	950.0	106
Black Drum	21	5
Black Sea Bass	5,330	230
Blue Runner	14	3
Bluefish	2,701	183
Blueline Tilefish	10	9
Bonito	210	35
Butterfish	3,653	111
Channeled Whelk	368	21.0
Chub Mackerel	26.0	10
Clearnose Skate	19.0	9.0
Cobia	10.0	6.0
Cod	461	68.0
Conchs	22	3
Conger Eel	425	84
Crevalle	10	3
Cunner	176	53
Dogfish Smooth	1,125	48
Dogfish Spiny	262	45.0
Dolphinfish	6.0	4.0
Fourspot Flounder	40	7
Golden Tilefish	60	31
Haddock	188	37
Hickory Shad	14	3
Horseshoe Crab	6	3.0
Illex Squid	35.0	19.0
John Dory	20	12.0
Jonah Crab	1,118	55.0
King Mackerel	8.0	4
King Whiting	279	41.0
Knobbed Whelk	153	13.0
Little Tuna	140	24
Longfin Squid	4,820	125.0
Mantis Shrimp	70	3
Menhaden	50	13.0
Monkfish	3,271	190.0

Species	Number of Trips	Number of Vessels
Mullets	19	3.0
Nk Crab	8	3.0
Nk Eel	74	26.0
Nk Seatrout	56	18
Northern Puffer	17	6
Pollock	16	8
Red Hake	2,933	104
Redfish	4.0	4.0
Rock Crab	405	16.0
Sand-Dab Flounder	7	4
Scup	6,618	230
Sea Raven	15	5.0
Sea Robins	583	48
Sea Scallop	602	86
Silver Hake	3,378	105.0
Skates	3,952	157.0
Spanish Mackerel	15	11.0
Spot	120	8
Spotted Hake	83	4.0
Spotted Weakfish	72	14.0
Squeteague Weakfish	704	87
Striped Bass	948	89.0
Summer Flounder	6,261	225
Tautog	988	117.0
Thresher Shark	6.0	4.0
Triggerfish	269	61
White Hake	17	13
Winter Flounder	1,155	65.0
Witch Flounder	75	19
Yellowtail Flounder	560	40.0

Table 151: Total Number of Trips and Vessels by Port, RHS 3 RI Merge, 2018

Port	Number of Trips	Number of Vessels
Beaufort, NC	33	24
Cape May, NJ	10	5
Chincoteague, VA	3	3.0
Fairhaven, MA	60	5
Hampton Bay, NY	13.0	3.0
Hampton, VA	21	11
Little Compton, RI	515	12
Menemsha, MA	106	7
Montauk, NY	3,530	90.0
New Bedford, MA	565	85
New London, CT	251	10
New Shoreham, RI	60	3
Newport News, VA	7	7
Newport, RI	571	12
Point Judith, RI	6,269	138.0
Point Pleasant, NJ	57	16



Port	Number of Trips	Number of Vessels
Shinnecock, NY	15	5
Stonington, CT	520.0	14.0
Tiverton, RI	168	6
Westport, MA	280	13

Table 152: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 3 RI Merge, 2017

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Albacore Tuna	55.82	55.33	15.58
Atlantic Bluefish	31.04	34.33	11.85
Weakfish	18.79	23.19	7.85
Tautog	15.55	18.78	28.38
Windowpane Flounder	14.76	17.88	34.36
Scup	14.10	19.31	15.15
Atlantic Striped Bass	13.63	12.49	21.19
Longfin Squid	12.38	12.17	9.46
Spot	10.52	13.27	5.64
Red Hake	10.17	15.65	8.97

Table 153: Total Number of Trips and Vessels by FMP, RHS 3 RI Merge, 2017

FMP	Number of Trips	Number of Vessels
American Lobster	2,667	116
Atlantic Herring	339	43.0
Bluefish	4,116	235
Golden and Blueline Tilefish	66	37
Highly Migratory Species	101.0	18.0
Jonah Crab	1,310	58.0
Mackerel, Squid, and Butterfish	5,606	161
Monkfish	3,602	214.0
No Federal FMP	5,656	267.0
Northeast Multispecies	1,585	114
Sea Scallop	761	133
Skates	4,072	164.0
Small-Mesh Multispecies	3,530	139.0
Spiny Dogfish	512.0	58.0
Summer Flounder, Scup, Black Sea Bass	10,278	315
Surfclam, Ocean Quahog	86	10

Table 154: Total Number of Trips and Vessels by Species, RHS 3 RI Merge, 2017

Species	Number of Trips	Number of Vessels
Albacore Tuna	92	12.0
Am. Plaice Flounder	10	6

Species	Number of Trips	Number of Vessels
American Eel	89	23
American Lobster	2,667	116
American Shad	18	6
Atlantic Croaker	9	5
Atlantic Herring	339	43.0
Atlantic Mackerel	763	104.0
Black Sea Bass	6,128	265
Blue Back Herring	16	3
Bluefish	4,116	235
Bonito	320	51
Butterfish	3,658.0	120.0
Cancer Crab	29	3
Channeled Whelk	274	23.0
Chub Mackerel	13.0	5
Clearnose Skate	27.0	13.0
Cod	579	83.0
Conger Eel	394	88
Cunner	180	46
Dogfish Smooth	1,078	62
Dogfish Spiny	512.0	58.0
Fourspot Flounder	32	7
Golden Tilefish	61	34
Haddock	4	3
Hickory Shad	7	4
Horseshoe Crab	5	3.0
Illex Squid	12.0	6.0
John Dory	39	27
Jonah Crab	1,310	58.0
King Mackerel	18	7
King Whiting	219.0	49.0
Knobbed Whelk	92	13.0
Little Tuna	216	17.0
Longfin Squid	5,298	138
Mantis Shrimp	74	7
Menhaden	36	9.0
Monkfish	3,598	214.0
Mullets	18	7
Nk Crab	9	5.0
Nk Eel	111	27
Nk Seatrout	232	24
Northern Kingfish	19.0	7.0
Northern Sea Robin	11	5
Other Fish	5.0	3.0
Pollock	15	10
Red Hake	2,453	113
Redfish	3.0	3.0
Rock Crab	383	17
Sand-Dab Flounder	8	3
Scup	7,118	254
Sea Raven	30	8
Sea Robins	739	64
Sea Scallop	761	133

Species	Number of Trips	Number of Vessels
Silver Hake	3,004	119
Skates	4,063	164.0
Spanish Mackerel	11.0	8.0
Spot	149	12
Spotted Hake	74	3
Spotted Weakfish	101	14.0
Squeteague Weakfish	1,135	101
Steelhead Trout	3	3
Striped Bass	1,164	111
Summer Flounder	6,053	235
Tautog	1,066	137.0
Thresher Shark	6.0	3.0
Triggerfish	379	94
White Hake	23	11.0
Winter Flounder	1,398	79
Witch Flounder	75	20
Yellowtail Flounder	674	60.0

Table 155: Total Number of Trips and Vessels by Port, RHS 3 RI Merge, 2017

Port	Number of Trips	Number of Vessels
Beaufort, NC	19	12
Cape May, NJ	24	9.0
Chatham, MA	13	3
Fairhaven, MA	112	6
Hampton Bay, NY	17.0	7.0
Hampton, VA	22	15
Harwichport, MA	19	3
Little Compton, RI	782	13
Menemsha, MA	122	9
Montauk, NY	3,893.0	99.0
New Bedford, MA	944	135
New London, CT	148	9
New Shoreham, RI	106	4
Newport News, VA	6	5
Newport, RI	497	15
Point Judith, RI	7,067	151.0
Point Pleasant, NJ	115	26
Shinnecock, NY	18	5.0
Stonington, CT	522	18
Tiverton, RI	141	4
Wakefield, RI	26	4
Westport, MA	364	15

Table 156: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 3 RI Merge, 2016

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Ocean Pout	78.48	72.09	31.98
Albacore Tuna	43.11	43.53	15.33
Atlantic Bluefish	19.41	19.20	10.05
Weakfish	18.10	19.98	8.62
Tautog	17.92	19.33	23.94
Scup	17.64	20.86	14.08
Atlantic Striped Bass	14.48	13.49	19.84
Yellowtail Flounder	13.81	13.06	7.39
Butterfish	12.87	13.65	9.10
Offshore Hake	12.64	20.66	1.39

Table 157: Total Number of Trips and Vessels by FMP, RHS 3 RI Merge, 2016

FMP	Number of Trips	Number of Vessels
American Lobster	2,825	110
Atlantic Herring	495	45.0
Bluefish	3,838	224
Golden and Blueline Tilefish	47	30
Highly Migratory Species	54.0	16.0
Jonah Crab	1,229	53.0
Mackerel, Squid, and Butterfish	6,075	170
Monkfish	3,343	215
No Federal FMP	5,128	259.0
Northeast Multispecies	1,767	128
Sea Scallop	980	114.0
Skates	3,888	149.0
Small-Mesh Multispecies	2,969	132.0
Spiny Dogfish	662	57.0
Summer Flounder, Scup, Black Sea Bass	9,815	322

Table 158: Total Number of Trips and Vessels by Species, RHS 3 RI Merge, 2016

Species	Number of Trips	Number of Vessels
Albacore Tuna	40	7.0
Am. Plaice Flounder	31	6
American Eel	33	13.0
American Lobster	2,825	110
Atlantic Croaker	5	5
Atlantic Herring	495	45.0
Atlantic Mackerel	926	100.0
Black Sea Bass	4,061	260
Blue Crab	6	3.0
Blue Runner	11	3
Bluefish	3,838	224

Species	Number of Trips	Number of Vessels
Blueline Tilefish	13	12
Bonito	197	32
Butterfish	3,539	116
Cancer Crab	41	3
Channeled Whelk	359	32.0
Clearnose Skate	24.0	8
Cod	1,002	103.0
Conchs	98	12.0
Conger Eel	246	78
Cunner	196	42
Dogfish Smooth	1,001	50.0
Dogfish Spiny	662	57.0
Dolphinfish	29	3
Fourspot Flounder	49	5
Golden Tilefish	38	24
Haddock	11	7
Horseshoe Crab	4	3
Illex Squid	10.0	6.0
John Dory	31	21
Jonah Crab	1,229	53.0
King Whiting	231.0	44
Knobbed Whelk	140	18.0
Lightning Whelk	23	6.0
Little Tuna	103	11
Longfin Squid	5,741	155
Mantis Shrimp	81	5
Menhaden	11	4.0
Monkfish	3,317	215
Nk Crab	8	4.0
Nk Eel	52.0	13.0
Nk Seatrout	121	25
Ocean Pout	9	3
Offshore Hake	11.0	8.0
Other Fish	5.0	3.0
Pollock	13	6
Red Hake	2,085	115
Rock Crab	477	13.0
Scup	6,558	251
Sea Raven	53	9
Sea Robins	569	68
Sea Scallop	980	114.0
Silver Hake	2,440	112.0
Skates	3,882	148.0
Spanish Mackerel	5.0	4
Spot	84	9
Spotted Hake	16	3
Spotted Weakfish	48	9.0
Squeteague Weakfish	965	98
Striped Bass	1,025	108
Summer Flounder	7,493	247
Tautog	844	111.0
Triggerfish	128	55

Species	Number of Trips	Number of Vessels
White Hake	12	8
Winter Flounder	1,415	83
Witch Flounder	165	34
Yellowfin Tuna	3	3
Yellowtail Flounder	756	66.0

Table 159: Total Number of Trips and Vessels by Port, RHS 3 RI Merge, 2016

Port	Number of Trips	Number of Vessels
Beaufort, NC	18	13.0
Belford, NJ	23	6.0
Boston, MA	18	6.0
Cape May, NJ	26	12
Chatham, MA	13	3
Davisville, RI	6	3
Fairhaven, MA	74	4
Fall River, MA	12	3
Gloucester, MA	6	4
Hampton Bay, NY	34	7.0
Hampton, VA	25	14
Little Compton, RI	839	12
Menemsha, MA	110	8
Montauk, NY	4,094	93.0
New Bedford, MA	1,113.0	113.0
New London, CT	333	9.0
New Shoreham, RI	158	8
Newport, RI	515	11
North Kingstown, RI	14	3
Point Judith, RI	6,805	145.0
Point Pleasant, NJ	42	12
Shinnecock, NY	72	7
Stonington, CT	503	19
Tiverton, RI	135	4
Wanchese, NC	4.0	3.0
Westport, MA	354	15
Woods Hole, MA	59	3

Table 160: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 3 RI Merge, 2015

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Albacore Tuna	25.07	26.15	5.55
Scup	16.24	17.03	13.13
Atlantic Bluefish	15.46	15.84	10.16
Blueback Herring	14.22	22.08	27.07
Atlantic Striped Bass	14.21	12.42	17.27
Tautog	13.38	16.22	24.34
Yellowtail Flounder	13.02	12.02	5.60

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
American Shad	12.84	13.04	4.19
Windowpane Flounder	12.69	14.40	8.80
Offshore Hake	11.53	10.54	1.38

Table 161: Total Number of Trips and Vessels by FMP, RHS 3 RI Merge, 2015

FMP	Number of Trips	Number of Vessels
American Lobster	2,410	98
Atlantic Herring	379	45.0
Bluefish	3,595	212
Golden and Blueline Tilefish	58	27.0
Highly Migratory Species	75	13.0
Jonah Crab	1,062	53.0
Mackerel, Squid, and Butterfish	5,038	153.0
Monkfish	3,188	216
No Federal FMP	4,596	250.0
Northeast Multispecies	2,082	138
Sea Scallop	681	101
Skates	4,061	155
Small-Mesh Multispecies	2,831	122.0
Spiny Dogfish	641	72.0
Summer Flounder, Scup, Black Sea Bass	8,937	288
Surfclam, Ocean Quahog	192	6.0

Table 162: Total Number of Trips and Vessels by Species, RHS 3 RI Merge, 2015

Species	Number of Trips	Number of Vessels
Albacore Tuna	57	8.0
Am. Plaice Flounder	34	5
American Eel	43	13.0
American Lobster	2,410	98
American Shad	12	6
Atlantic Croaker	57	30.0
Atlantic Herring	379	45.0
Atlantic Mackerel	535	78.0
Black Sea Bass	2,747	235
Blue Back Herring	8	5
Bluefish	3,595	212
Blueline Tilefish	15	11.0
Bonito	242	46
Butterfish	3,608	113.0
Cancer Crab	17	3
Channeled Whelk	386	25.0
Cod	936	107.0
Conchs	81	15.0
Conger Eel	293	70
Cunner	206	49

Species	Number of Trips	Number of Vessels
Dogfish Smooth	1,173	54.0
Dogfish Spiny	641	72.0
Fourspot Flounder	44	10.0
Golden Tilefish	45	21.0
Haddock	8	7
Illex Squid	9.0	8.0
John Dory	36	23
Jonah Crab	1,062	53.0
King Whiting	195	36.0
Knobbed Whelk	183	17.0
Lightning Whelk	7.0	6.0
Little Tuna	94	11
Longfin Squid	4,749	140.0
Mako Shortfin Shark	3	3
Mantis Shrimp	87	5
Menhaden	19.0	5.0
Monkfish	3,182	216
Mullets	12	4
Nk Crab	15	9
Nk Eel	55	13.0
Nk Seatrout	59	21
Offshore Hake	8.0	3.0
Other Fish	5	4.0
Pollock	13	9
Red Hake	1,988	107
Rock Crab	428	19.0
Sand-Dab Flounder	14	5
Scup	6,076	213
Sea Raven	61	14
Sea Robins	639	59
Sea Scallop	681	101
Silver Hake	2,431	105.0
Skates	4,061	155
Spot	30	4
Spotted Weakfish	31	9.0
Squeteague Weakfish	555	86
Striped Bass	781	86
Striped Sea Robin	15	5
Summer Flounder	7,226	234
Tautog	778.0	116.0
Triggerfish	70	25.0
White Hake	15	13.0
White Perch	6	3
Winter Flounder	1,684	91.0
Witch Flounder	277	49
Yellowtail Flounder	859	79.0



Table 163: Total Number of Trips and Vessels by Port, RHS 3 RI Merge, 2015

Port	Number of Trips	Number of Vessels
Beaufort, NC	14	11
Belford, NJ	5	4
Boston, MA	14	5.0
Cape May, NJ	12	8
Fairhaven, MA	52	6.0
Fall River, MA	9	5
Gloucester, MA	10	5
Hampton Bay, NY	9	4
Hampton, VA	25	19
Hyannis, MA	25	6.0
Little Compton, RI	669	13
Menemsha, MA	182	12
Montauk, NY	3,279	81.0
Nantucket, MA	8	3
New Bedford, MA	958	99
New London, CT	282	11.0
New Shoreham, RI	171	8
Newport News, VA	10	8
Newport, RI	416	11
Point Judith, RI	6,455	151
Point Pleasant, NJ	42	12
Shinnecock, NY	4	3
Stonington, CT	536.0	15
Tiverton, RI	93	7
Wakefield, RI	78	4
Westport, MA	205	14
Woods Hole, MA	17	3

Table 164: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 3 RI Merge, 2014

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Scup	20.25	22.00	12.78
Atlantic Bluefish	19.22	19.54	11.75
Tautog	15.83	18.43	29.49
Red Hake	12.72	19.09	7.09
Atlantic Herring	12.01	15.06	9.62
Weakfish	10.97	12.32	6.49
Atlantic Striped Bass	9.95	10.32	18.89
Yellowtail Flounder	8.85	7.76	3.21
Thresher Shark	6.97	6.61	0.62
Winter Flounder	6.12	6.46	4.76

Table 165: Total Number of Trips and Vessels by FMP, RHS 3 RI Merge, 2014

FMP	Number of Trips	Number of Vessels
American Lobster	2,416	121.0
Atlantic Herring	484	43.0
Bluefish	4,179	219
Golden and Blueline Tilefish	54	27.0
Highly Migratory Species	106	19.0
Jonah Crab	1,197	63
Mackerel, Squid, and Butterfish	5,140	143.0
Monkfish	3,102	222
No Federal FMP	5,247	258.0
Northeast Multispecies	2,090	144
Sea Scallop	733	112
Skates	4,638	167.0
Small-Mesh Multispecies	2,966	132.0
Spiny Dogfish	667	68.0
Summer Flounder, Scup, Black Sea Bass	9,776	286

Table 166: Total Number of Trips and Vessels by Species, RHS 3 RI Merge, 2014

Species	Number of Trips	Number of Vessels
Albacore Tuna	91	11.0
Am. Plaice Flounder	9	8
Amber Jack	9	3
American Eel	69	18.0
American Lobster	2,416	121.0
American Shad	15	7
Atlantic Croaker	11	5
Atlantic Halibut	6	6.0
Atlantic Herring	484	43.0
Atlantic Mackerel	250	70.0
Black Drum	8	4
Black Sea Bass	3,900	229
Bluefish	4,179	219
Blueline Tilefish	15	12.0
Bonito	348	62
Butterfish	3,665	119
Channeled Whelk	361	30.0
Chub Mackerel	3	3.0
Clearnose Skate	11	6
Cod	820	106.0
Conchs	191	21.0
Conger Eel	612	92
Cunner	239	57
Dogfish Smooth	1,026	55.0
Dogfish Spiny	667	68.0
Dolphinfish	5	3
Fourspot Flounder	30	12.0
Golden Tilefish	44	23.0

Species	Number of Trips	Number of Vessels
Haddock	17	11
Horseshoe Crab	31	10.0
Illex Squid	21.0	7.0
John Dory	34	17
Jonah Crab	1,197	63
King Whiting	243.0	35.0
Knobbed Whelk	133	16.0
Little Tuna	154	18.0
Longfin Squid	4,911	131.0
Mantis Shrimp	160	7
Menhaden	13.0	8.0
Monkfish	3,097	221
Nk Crab	9	4.0
Nk Eel	133	14
Nk Seatrout	127	29
Northern Puffer	15	4
Offshore Hake	9.0	9.0
Other Fish	5.0	4.0
Pandalid Shrimp	10	3
Pollock	24	14
Red Hake	2,285	116
Rock Crab	344	19.0
Sand-Dab Flounder	8	5
Scup	6,432	225
Sea Raven	111	19
Sea Robins	924	59
Sea Scallop	733	112
Silver Hake	2,313	105.0
Skates	4,636	167.0
Skipjack Tuna	10	4.0
Spanish Mackerel	8.0	3
Spot	76	8.0
Spotted Weakfish	99	13.0
Squeteague Weakfish	934	93
Striped Bass	939	101
Summer Flounder	7,991	228
Tautog	989.0	122.0
Thresher Shark	5.0	3.0
Triggerfish	174	59
White Hake	53	26
White Perch	8	3
Winter Flounder	1,801	101.0
Witch Flounder	277	45
Yellowfin Tuna	5	3
Yellowtail Flounder	792	81

Table 167: Total Number of Trips and Vessels by Port, RHS 3 RI Merge, 2014

Port	Number of Trips	Number of Vessels
Bristol, RI	36	3

Port	Number of Trips	Number of Vessels
Cape May, NJ	12	9
Chilmark, MA	54	6
Davisville, RI	8.0	3.0
Fairhaven, MA	46	10
Fall River, MA	31	6
Hampton Bay, NY	3	3
Hampton, VA	12	7
Hyannis, MA	34	5
Little Compton, RI	787	15
Menemsha, MA	101	9
Montauk, NY	3,678	95.0
New Bedford, MA	1,060	122.0
New London, CT	152	15
New Shoreham, RI	168	7
Newport, RI	469	16
Point Judith, RI	7,078	150.0
Point Pleasant, NJ	29	12
Shinnecock, NY	18.0	7
Stonington, CT	450.0	18.0
Tiverton, RI	154	7
Westport, MA	232	13

Table 168: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 3 RI Merge, 2013

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Blueback Herring	27.00	33.04	24.74
Atlantic Bluefish	20.29	23.48	13.83
Scup	19.31	23.73	15.63
Weakfish	18.83	21.84	12.64
Spotted Seatrout	17.58	18.93	4.78
American Shad	13.50	14.87	15.50
Yellowtail Flounder	13.19	12.42	4.12
Atlantic Striped Bass	12.95	12.27	20.93
Red Hake	11.79	20.04	9.16
Butterfish	11.64	13.41	11.30

Table 169: Total Number of Trips and Vessels by FMP, RHS 3 RI Merge, 2013

FMP	Number of Trips	Number of Vessels
American Lobster	2,615	135.0
Atlantic Herring	564	41.0
Bluefish	4,840	234
Golden and Blueline Tilefish	71	47.0
Highly Migratory Species	10	7
Jonah Crab	1,110	75.0
Mackerel, Squid, and Butterfish	5,417	154.0
Monkfish	4,512	233.0

FMP	Number of Trips	Number of Vessels
No Federal FMP	6,100	269.0
Northeast Multispecies	2,339	152
Sea Scallop	811	99
Skates	4,930	162.0
Small-Mesh Multispecies	3,460	128
Spiny Dogfish	1,194	106.0
Summer Flounder, Scup, Black Sea Bass	10,329	299
Surfclam, Ocean Quahog	309	10.0

Table 170: Total Number of Trips and Vessels by Species, RHS 3 RI Merge, 2013

Species	Number of Trips	Number of Vessels
Am. Plaice Flounder	10	7
Amber Jack	7	3
American Eel	58	22
American Lobster	2,615	135.0
American Shad	40	9
Atlantic Croaker	55	20.0
Atlantic Halibut	13	8.0
Atlantic Herring	564	41.0
Atlantic Mackerel	351	80
Black Sea Bass	4,400	229
Blue Back Herring	5	3
Blue Crab	16	6
Bluefish	4,840	234
Blueline Tilefish	7	6.0
Bonito	214	56
Butterfish	3,691	109
Channeled Whelk	345	31.0
Cobia	10.0	7.0
Cod	1,101	119
Conchs	103.0	21.0
Conger Eel	909	99
Cunner	266	51
Dogfish Smooth	1,171	64
Dogfish Spiny	1,194	106.0
Dolphinfish	3	3
Fourspot Flounder	43	12
Golden Tilefish	66	44
Haddock	12	10
Hickory Shad	21	7
Horseshoe Crab	12.0	5.0
Illex Squid	14.0	9.0
John Dory	56	35.0
Jonah Crab	1,110	75.0
King Mackerel	7	6
King Whiting	253	39
Knobbed Whelk	87	14.0
Lightning Whelk	6.0	4
Longfin Squid	5,068	132

Species	Number of Trips	Number of Vessels
Mantis Shrimp	43	4
Menhaden	20	4.0
Monkfish	4,509	233.0
Mulletts	44	7
Nk Crab	8	7.0
Nk Drum	5	5
Nk Eel	130	28
Nk Seatrout	235	34
Northern Puffer	9.0	4.0
Northern Sea Robin	6	5
Offshore Hake	33	11.0
Other Fish	6	6
Pollock	36	18
Red Hake	2,426	103.0
Redfish	8	7
Ribbonfish	5	3
Rock Crab	307	17.0
Sand-Dab Flounder	7	4
Scup	6,794	218
Sea Raven	39	11
Sea Robins	853	59
Sea Scallop	811	99
Silver Hake	2,972	111.0
Skates	4,929	162.0
Spanish Mackerel	12	6
Spot	362	26
Spotted Weakfish	207	18.0
Squeteague Weakfish	1,676	106
Steelhead Trout	17	8
Striped Bass	1,164	118
Striped Sea Robin	58	4
Summer Flounder	8,084	240
Tautog	796	111.0
Triggerfish	305	81
White Hake	57	23
White Perch	38	5
Winter Flounder	1,374	83.0
Witch Flounder	438	48
Yellowtail Flounder	1,068	78

Table 171: Total Number of Trips and Vessels by Port, RHS 3 RI Merge, 2013

Port	Number of Trips	Number of Vessels
Beaufort, NC	7.0	7.0
Boston, MA	7	5.0
Cape May, NJ	5	4
Chilmark, MA	134	10
Fairhaven, MA	20	3
Fall River, MA	85	5
Gloucester, MA	4	3

Port	Number of Trips	Number of Vessels
Hampton Bay, NY	8	3
Hampton, VA	40.0	17
Little Compton, RI	921	19
Montauk, NY	3,991	103
New Bedford, MA	1,197	102.0
New London, CT	247	17
New Shoreham, RI	106	7
Newport News, VA	26	17
Newport, RI	790	22
Point Judith, RI	7,212	148.0
Point Pleasant, NJ	31	14
Shinnecock, NY	22.0	8.0
Stonington, CT	510	15.0
Tiverton, RI	169	4
Westport, MA	239	16

Table 172: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 3 RI Merge, 2012

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Blueback Herring	47.26	64.17	74.99
Scup	20.95	26.67	14.26
Butterfish	17.85	20.34	9.55
Spot	15.65	14.11	5.17
Weakfish	15.43	17.81	10.83
Atlantic Striped Bass	14.47	14.54	18.14
Tautog	13.38	14.67	22.71
Atlantic Bluefish	10.66	13.34	9.84
Albacore Tuna	9.88	14.37	4.19
Atlantic Herring	9.69	15.64	4.43

Table 173: Total Number of Trips and Vessels by FMP, RHS 3 RI Merge, 2012

FMP	Number of Trips	Number of Vessels
American Lobster	3,189	131
Atlantic Herring	382.0	35.0
Bluefish	5,234	232
Golden and Blueline Tilefish	88.0	50
Highly Migratory Species	147	22.0
Jonah Crab	1,046	60.0
Mackerel, Squid, and Butterfish	4,913	149.0
Monkfish	3,711	207
No Federal FMP	5,861	281
Northeast Multispecies	1,806	138.0
Sea Scallop	660	69.0
Skates	4,599	168
Small-Mesh Multispecies	3,149	133.0
Spiny Dogfish	1,322	98.0

FMP	Number of Trips	Number of Vessels
Summer Flounder, Scup, Black Sea Bass	9,358	293

Table 174: Total Number of Trips and Vessels by Species, RHS 3 RI Merge, 2012

Species	Number of Trips	Number of Vessels
Albacore Tuna	85	9.0
Am. Plaice Flounder	22	8
Amber Jack	11	4
American Eel	83	19
American Lobster	3,189	131
American Shad	32	9.0
Atlantic Croaker	13.0	6.0
Atlantic Halibut	6	4.0
Atlantic Herring	382.0	35.0
Atlantic Mackerel	429.0	74.0
Black Sea Bass	3,402	221
Blue Back Herring	29	6
Blue Crab	21	3
Bluefish	5,234	232
Blueline Tilefish	12	9.0
Bonito	174	42
Butterfish	3,252	110
Cancer Crab	4	3
Channeled Whelk	442	34.0
Cod	877	102
Conchs	173	25.0
Conger Eel	716	99
Cunner	284	50
Dogfish Smooth	871	57.0
Dogfish Spiny	1,322	98.0
Fourspot Flounder	115	15.0
Golden Tilefish	81	48
Haddock	4	4
John Dory	59	37.0
Jonah Crab	1,046	60.0
King Mackerel	8	4
King Whiting	189	27.0
Knobbed Whelk	74	15.0
Little Tuna	52	14.0
Longfin Squid	4,648	132.0
Menhaden	44	8
Monkfish	3,711	207
Mulletts	61	8.0
Nk Crab	15.0	5.0
Nk Eel	108	24.0
Nk Seatrout	106	25
Offshore Hake	70.0	15
Other Fish	39	14
Pollock	28	14
Red Hake	2,190	115.0



Species	Number of Trips	Number of Vessels
Redfish	10	7.0
Ribbonfish	3	3
Rock Crab	360	27.0
Sand-Dab Flounder	135	10
Scup	6,406	243
Sea Raven	97	18
Sea Robins	777	62
Sea Scallop	660	69.0
Silver Hake	2,710	109
Skates	4,599	168
Skipjack Tuna	22	6
Spanish Mackerel	45	9
Spot	132	16
Spotted Weakfish	172	19.0
Squeteague Weakfish	1,181	104
Striped Bass	1,132	116
Summer Flounder	7,313	232
Tautog	744	119
Thresher Shark	21	7
Triggerfish	569	85
White Hake	28	16
White Perch	25	3
Winter Flounder	781	43
Witch Flounder	234	33
Yellowtail Flounder	560	63

Table 175: Total Number of Trips and Vessels by Port, RHS 3 RI Merge, 2012

Port	Number of Trips	Number of Vessels
Cape May, NJ	4	4
Chilmark, MA	85	10
Fairhaven, MA	21	6
Fall River, MA	87	3
Groton, CT	140	3
Hampton Bay, NY	4	3
Hampton, VA	10	10
Little Compton, RI	1,180	20
Montauk, NY	3,958	116.0
New Bedford, MA	1,030	80.0
New London, CT	318	13.0
New Shoreham, RI	145	10
Newport News, VA	27	11
Newport, RI	824	17
North Kingstown, RI	9	4
Point Judith, RI	6,182	138
Point Pleasant, NJ	16	4
Shinnecock, NY	28	7.0
Stonington, CT	689	20
Tiverton, RI	112	5
Westport, MA	127	12

Table 176: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 3 RI Merge, 2011

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Blueback Herring	66.12	67.35	26.24
Albacore Tuna	21.85	25.17	3.10
Butterfish	20.66	23.43	7.96
Scup	18.76	21.89	13.45
Spot	15.23	19.52	6.85
Atlantic Striped Bass	12.41	12.55	15.56
Atlantic Bluefish	11.18	12.99	10.07
Red Hake	9.94	15.64	6.83
Weakfish	9.06	10.53	7.51
Tautog	8.87	11.48	20.58

Table 177: Total Number of Trips and Vessels by FMP, RHS 3 RI Merge, 2011

FMP	Number of Trips	Number of Vessels
American Lobster	3,586	148
Atlantic Herring	234	30.0
Bluefish	4,492	217
Golden and Blueline Tilefish	71	35.0
Highly Migratory Species	95	16.0
Jonah Crab	1,015	65.0
Mackerel, Squid, and Butterfish	4,050	122
Monkfish	3,099	187.0
No Federal FMP	5,515	260
Northeast Multispecies	1,767	144.0
Sea Scallop	850	75
Skates	4,850	164.0
Small-Mesh Multispecies	2,396	113.0
Spiny Dogfish	1,150	88
Summer Flounder, Scup, Black Sea Bass	8,979	269
Surfclam, Ocean Quahog	141	8.0

Table 178: Total Number of Trips and Vessels by Species, RHS 3 RI Merge, 2011

Species	Number of Trips	Number of Vessels
Albacore Tuna	56	8
Am. Plaice Flounder	18	10
American Eel	97	14.0
American Lobster	3,586	148
American Shad	35	12.0
Atlantic Croaker	19.0	4.0
Atlantic Herring	234	30.0
Atlantic Mackerel	132	45.0
Bay Scallop	5	3
Black Sea Bass	3,479	203

Species	Number of Trips	Number of Vessels
Blue Back Herring	7	5
Bluefish	4,492	217
Bonito	193	36
Butterfish	2,711	95
Channeled Whelk	509	36.0
Cod	766	101
Conchs	229	24
Conger Eel	511	78
Cunner	299	49
Cusk	6	5
Dogfish Smooth	734	48
Dogfish Spiny	1,150	88
Fourspot Flounder	69	5
Golden Tilefish	66	33.0
Illex Squid	11	8.0
John Dory	38	21
Jonah Crab	1,015	65.0
King Whiting	118	23.0
Knobbed Whelk	141	15.0
Little Tuna	64	8.0
Longfin Squid	3,798	106
Mantis Shrimp	9	3
Menhaden	25	7.0
Monkfish	3,099	187.0
Nk Crab	65	7.0
Nk Eel	162	17.0
Nk Seatrout	41	9.0
Northern Puffer	27	3
Offshore Hake	45.0	8.0
Other Fish	22	11.0
Pollock	21	14
Red Hake	1,743	96.0
Redfish	13	6
Rock Crab	349	25.0
Sand-Dab Flounder	212	18
Sculpins	4	4
Scup	5,995	220
Sea Raven	183	19
Sea Robins	806	49
Sea Scallop	850	75
Silver Hake	2,046	87.0
Skates	4,849	163.0
Spanish Mackerel	15	7
Spotted Weakfish	60	12.0
Squeteague Weakfish	654	68
Striped Bass	1,207	116
Striped Sea Robin	17	7
Summer Flounder	7,197	213
Tautog	914	118.0
Triggerfish	427	71
White Hake	29	19
Winter Flounder	800	46

Species	Number of Trips	Number of Vessels
Witch Flounder	159	37
Yellowtail Flounder	442	63

Table 179: Total Number of Trips and Vessels by Port, RHS 3 RI Merge, 2011

Port	Number of Trips	Number of Vessels
Chilmark, MA	149	10
Fairhaven, MA	30	4
Fall River, MA	120	5
Gloucester, MA	6	6
Groton, CT	150	4
Hampton Bay, NY	4	3
Little Compton, RI	1,340	20
Montauk, NY	3,740	108.0
New Bedford, MA	978	89
New London, CT	180	9.0
New Shoreham, RI	119	9
Newport, RI	640	15
Point Judith, RI	6,284	135.0
Point Pleasant, NJ	14	5
Shinnecock, NY	32	12.0
Stonington, CT	622	19
Tiverton, RI	55	3
Westport, MA	221	14

Table 180: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 3 RI Merge, 2010

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Butterfish	16.81	20.48	6.33
Scup	16.05	15.59	12.51
Windowpane Flounder	14.25	17.67	20.42
Atlantic Striped Bass	11.77	12.37	11.79
Red Hake	9.22	14.68	3.96
Longfin Squid	7.06	8.15	6.00
Atlantic Bluefish	6.82	8.33	8.58
Tautog	6.45	9.76	16.25
Black Sea Bass	5.71	5.65	9.84
Summer Flounder	5.48	4.49	6.97

Table 181: Total Number of Trips and Vessels by FMP, RHS 3 RI Merge, 2010

FMP	Number of Trips	Number of Vessels
American Lobster	4,342	160
Atlantic Herring	200	28.0

FMP	Number of Trips	Number of Vessels
Bluefish	3,724	205
Golden and Blueline Tilefish	64	37
Highly Migratory Species	30	13.0
Jonah Crab	1,180	74.0
Mackerel, Squid, and Butterfish	3,894	122
Monkfish	2,620	192
No Federal FMP	4,683	262.0
Northeast Multispecies	1,585	142
Sea Scallop	538	89.0
Skates	3,995	141
Small-Mesh Multispecies	1,912	111.0
Spiny Dogfish	671	65.0
Summer Flounder, Scup, Black Sea Bass	9,178	256
Surfclam, Ocean Quahog	188	7

Table 182: Total Number of Trips and Vessels by Species, RHS 3 RI Merge, 2010

Species	Number of Trips	Number of Vessels
Albacore Tuna	6.0	3
Am. Plaice Flounder	44	15
American Eel	74	12.0
American Lobster	4,342	160
American Shad	27	8.0
Atlantic Halibut	4	4.0
Atlantic Herring	200	28.0
Atlantic Mackerel	171	50.0
Black Drum	3	3
Black Sea Bass	3,388	198
Blue Crab	27	8
Bluefish	3,724	205
Bonito	102	20.0
Butterfish	2,697	95
Channeled Whelk	309	26.0
Cod	777	107
Conchs	134.0	23.0
Conger Eel	413	69
Cunner	310	45
Dogfish Smooth	639	45.0
Dogfish Spiny	671	65.0
Fourspot Flounder	61	6.0
Golden Tilefish	61	36.0
Haddock	7	6
Illex Squid	7.0	3.0
John Dory	19	15
Jonah Crab	1,180	74.0
King Whiting	186	13.0
Knobbed Whelk	83	13.0
Little Tuna	34	9.0
Longfin Squid	3,577	107.0
Menhaden	4	3

Species	Number of Trips	Number of Vessels
Monkfish	2,620	192
Nk Crab	4	3
Nk Eel	79	19
Nk Seatrout	22	9.0
Ocean Quahog	188	7.0
Offshore Hake	41.0	11.0
Other Fish	11.0	6.0
Pollock	26	16
Red Hake	1,271	93.0
Redfish	6.0	5.0
Rock Crab	411	26
Sand-Dab Flounder	280	31.0
Sculpins	3	3
Scup	6,270	219
Sea Raven	154	24
Sea Robins	336	43
Sea Scallop	538	89.0
Silver Hake	1,657	92
Skates	3,995	141
Spanish Mackerel	24	11
Spotted Weakfish	46	12.0
Squeteague Weakfish	403	56.0
Striped Bass	1,212	110.0
Striped Sea Robin	24	5
Summer Flounder	7,172	204
Tautog	818	111.0
Thresher Shark	6	4.0
Triggerfish	335	53
White Hake	41	25
Winter Flounder	699	48
Witch Flounder	111	32
Yellowtail Flounder	540	60

Table 183: Total Number of Trips and Vessels by Port, RHS 3 RI Merge, 2010

Port	Number of Trips	Number of Vessels
Bristol, RI	79	3
Chilmark, MA	148	14
Fairhaven, MA	36	6.0
Fall River, MA	114	7.0
Little Compton, RI	1,130	19
Montauk, NY	4,053	103.0
New Bedford, MA	832	93
New London, CT	222	10.0
New Shoreham, RI	115	11
Newport, RI	624	18
North Kingstown, RI	95	5
Point Judith, RI	6,402	136.0
Point Pleasant, NJ	5	4
Shinnecock, NY	11	6

Port	Number of Trips	Number of Vessels
Stonington, CT	716	25
Tiverton, RI	134	4
Westport, MA	252	15
Woods Hole, MA	20	4

Table 184: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 3 RI Merge, 2009

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Blueback Herring	68.58	84.22	21.20
Ocean Pout	20.85	21.63	16.12
Spot	17.30	21.31	4.16
Scup	13.18	14.67	12.29
Windowpane Flounder	11.60	14.97	11.88
Atlantic Striped Bass	10.52	11.83	12.77
Atlantic Mackerel	9.60	13.26	2.95
Albacore Tuna	9.36	7.04	3.79
Butterfish	9.03	10.49	5.75
Tautog	8.87	12.43	20.08

Table 185: Total Number of Trips and Vessels by FMP, RHS 3 RI Merge, 2009

FMP	Number of Trips	Number of Vessels
American Lobster	4,946	178.0
Atlantic Herring	217	36.0
Bluefish	3,401	209
Golden and Blueline Tilefish	51	31.0
Highly Migratory Species	50.0	17.0
Jonah Crab	1,321	72.0
Mackerel, Squid, and Butterfish	3,479	151.0
Monkfish	3,244	198
No Federal FMP	4,641	269.0
Northeast Multispecies	1,985	162
Sea Scallop	718	72.0
Skates	3,263	144.0
Small-Mesh Multispecies	2,228	131.0
Spiny Dogfish	1,034	94.0
Summer Flounder, Scup, Black Sea Bass	7,795	264

Table 186: Total Number of Trips and Vessels by Species, RHS 3 RI Merge, 2009

Species	Number of Trips	Number of Vessels
Albacore Tuna	28	4.0
Am. Plaice Flounder	91	19
American Eel	59	9.0

Species	Number of Trips	Number of Vessels
American Lobster	4,946	178.0
American Shad	30	9.0
Atlantic Herring	217	36.0
Atlantic Mackerel	293	80.0
Black Sea Bass	1,713	182
Blue Back Herring	6	3
Blue Crab	33	5.0
Bluefish	3,401	209
Blueline Tilefish	8.0	6.0
Bonito	169	28.0
Butterfish	2,118	103
Channeled Whelk	271	28.0
Cod	866	116
Conchs	162	22.0
Conger Eel	304	69
Cunner	380	51
Dogfish Smooth	578.0	55.0
Dogfish Spiny	1,034	94.0
Fourspot Flounder	52.0	5.0
Golden Tilefish	47	31.0
Haddock	15	9
Hickory Shad	8	5
Horseshoe Crab	28	4.0
Illex Squid	10.0	4.0
John Dory	22	16.0
Jonah Crab	1,321	72.0
King Whiting	95	19.0
Knobbed Whelk	114	11.0
Little Tuna	49	7
Longfin Squid	3,216	122.0
Menhaden	25.0	8.0
Monkfish	3,244	198
Nk Crab	11	8.0
Nk Eel	141	17.0
Nk Seatrout	40	8.0
Ocean Pout	63	18
Offshore Hake	103.0	18.0
Pollock	55	24
Red Hake	1,460	102.0
Rock Crab	560	33.0
Sand-Dab Flounder	729	67
Sculpins	6	5
Scup	4,650	209
Sea Raven	154	24
Sea Robins	212	48
Sea Scallop	718	72.0
Silver Hake	1,984	104
Skates	3,263	144.0
Snapper	13	4
Spanish Mackerel	16.0	7.0
Spotted Weakfish	64.0	13.0
Squeteague Weakfish	478	75



Species	Number of Trips	Number of Vessels
Striped Bass	1,080	107
Summer Flounder	6,260	214
Tautog	971.0	124.0
Triggerfish	218	49
White Hake	121	34
Winter Flounder	1,389	102.0
Witch Flounder	156	44
Yellowtail Flounder	818	84

Table 187: Total Number of Trips and Vessels by Port, RHS 3 RI Merge, 2009

Port	Number of Trips	Number of Vessels
Barnstable, MA	7.0	3
Chilmark, MA	156	10
East Hampton, NY	6	3
Fall River, MA	115	6.0
Gloucester, MA	10	4
Groton, CT	254	3
Jamestown, RI	164	3
Little Compton, RI	1,082	19
Montauk, NY	3,801	107.0
New Bedford, MA	830	72
New London, CT	259	9.0
New Shoreham, RI	135	8
Newport, RI	858.0	22.0
Noank, CT	178	5
North Kingstown, RI	47	6
Point Judith, RI	6,172.0	149.0
Point Pleasant, NJ	9	4
Sandwich, MA	7	4.0
Shinnecock, NY	40	12.0
Stonington, CT	652	21
Tiverton, RI	86	5
Westport, MA	335	15
Woods Hole, MA	40	4

Table 188: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 3 RI Merge, 2008

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Blueback Herring	50.70	64.16	5.13
Ocean Pout	20.15	27.84	14.02
Scup	16.70	19.65	9.42
Atlantic Striped Bass	11.63	11.35	13.41
Windowpane Flounder	10.67	13.09	12.17
Spot	9.50	10.60	4.41
Winter Flounder	8.99	9.95	5.02
Atlantic Bluefish	8.53	10.85	10.41

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Tautog	7.78	10.68	18.04
Red Hake	7.63	11.84	4.54

Table 189: Total Number of Trips and Vessels by FMP, RHS 3 RI Merge, 2008

FMP	Number of Trips	Number of Vessels
American Lobster	5,500	189
Atlantic Herring	161	31.0
Bluefish	3,538	208.0
Golden and Blueline Tilefish	46	26
Highly Migratory Species	29.0	12.0
Jonah Crab	1,320	76.0
Mackerel, Squid, and Butterfish	3,755	148
Monkfish	4,489	211.0
No Federal FMP	4,938	275
Northeast Multispecies	3,356	181
Sea Scallop	933	107
Skates	4,217	160.0
Small-Mesh Multispecies	1,822	120.0
Spiny Dogfish	450	63
Summer Flounder, Scup, Black Sea Bass	8,056	280
Surfclam, Ocean Quahog	92	5.0

Table 190: Total Number of Trips and Vessels by Species, RHS 3 RI Merge, 2008

Species	Number of Trips	Number of Vessels
Albacore Tuna	19	4
Am. Plaice Flounder	126	31
American Eel	28	9.0
American Lobster	5,500	189
American Shad	41.0	17.0
Atlantic Croaker	7	3
Atlantic Halibut	3	3
Atlantic Herring	161	31.0
Atlantic Mackerel	222.0	64
Black Sea Bass	3,334	213
Blue Back Herring	10	4
Blue Crab	11	3
Bluefish	3,538	208.0
Bonito	110	22.0
Butterfish	1,805	102
Channeled Whelk	350	28.0
Cod	835	117
Conchs	193	28.0
Conger Eel	258	62
Cunner	371	52
Cusk	20	3

Species	Number of Trips	Number of Vessels
Dogfish Smooth	397	39.0
Dogfish Spiny	450	63
Fourspot Flounder	88	8.0
Golden Tilefish	45	25.0
Haddock	28	20
Hickory Shad	20	5
Horseshoe Crab	26	3.0
Illex Squid	25.0	9.0
John Dory	21	16
Jonah Crab	1,320	76.0
King Mackerel	4	3
King Whiting	71	19.0
Knobbed Whelk	43	13.0
Little Tuna	43	6
Longfin Squid	3,555	124.0
Mantis Shrimp	7	3
Menhaden	32	8.0
Monkfish	4,489	211.0
Nk Crab	3	3.0
Nk Eel	80	15.0
Nk Flounders	6	6
Nk Seatrout	50	13.0
Ocean Pout	114	27.0
Offshore Hake	122	12.0
Other Fish	7.0	4.0
Pollock	23	18
Red Hake	1,369	104
Rock Crab	765.0	42.0
Sand-Dab Flounder	1,375	83
Sculpins	29	11
Scup	2,595	192
Sea Raven	150	26
Sea Robins	290	48
Sea Scallop	933	107
Silver Hake	1,396	98
Skates	4,217	160.0
Spot	26	3
Spotted Weakfish	86.0	16.0
Squeteague Weakfish	564	84
Striped Bass	1,242	112.0
Striped Sea Robin	9	5
Summer Flounder	6,654	214
Tautog	1,063.0	140.0
Triggerfish	103	40
White Hake	94	29
Winter Flounder	2,939	131
Witch Flounder	439	63
Wolffishes	10	4
Yellowtail Flounder	1,319	91

Table 191: Total Number of Trips and Vessels by Port, RHS 3 RI Merge, 2008

Port	Number of Trips	Number of Vessels
Barnstable, MA	4	4.0
Chilmark, MA	157	11
Fall River, MA	88	5
Falmouth, MA	4.0	3.0
Groton, CT	296	3
Hampton Bay, NY	8	5
Little Compton, RI	1,194	21
Montauk, NY	3,522	117.0
New Bedford, MA	831	89.0
New London, CT	284	10.0
New Shoreham, RI	155	7
Newport, RI	702	25
Noank, CT	330	4
North Kingstown, RI	21.0	4.0
Point Judith, RI	6,880	151.0
Point Pleasant, NJ	11	4
Shinnecock, NY	63	15.0
Stonington, CT	582	20
Tiverton, RI	168	6
Westport, MA	444	13
Woods Hole, MA	28	5

Table 192: Total Number of Trips and Vessels by Year, RHS 4 NJ Merge

Year	Number of Trips	Number of Vessels
2019	2,929	315
2018	3,955	351
2017	3,927	433
2016	4,308	436
2015	3,996	384
2014	4,980	478.0
2013	5,226	384.0
2012	5,663	452
2011	6,854	539.0
2010	6,093	548
2009	8,742	525
2008	8,950	506

Table 193: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 4 NJ Merge, 2019

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Atlantic Mackerel	33.11	38.16	1.41
Atlantic Herring	12.34	19.39	11.62
Black Sea Bass	2.86	2.57	1.46

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
American Eel	2.39	4.43	1.09
Summer Flounder	2.39	2.91	1.57
Spotted Seatrout	2.26	2.91	7.53
Weakfish	1.41	1.49	2.13
Scup	1.22	1.43	1.21
All Others	1.17	1.08	0.31
Red Hake	1.14	1.01	1.17

Table 194: Total Number of Trips and Vessels by FMP, RHS 4 NJ Merge, 2019

FMP	Number of Trips	Number of Vessels
American Lobster	435	34
Atlantic Herring	43.0	11.0
Bluefish	302.0	76.0
Golden and Blueline Tilefish	82	38
Highly Migratory Species	16.0	12.0
Jonah Crab	227	17.0
Mackerel, Squid, and Butterfish	755	139
Monkfish	1,294	191
No Federal FMP	693	106.0
Northeast Multispecies	22	13
Sea Scallop	897	145
Skates	685	93
Small-Mesh Multispecies	638	97.0
Spiny Dogfish	109	22.0
Summer Flounder, Scup, Black Sea Bass	1,413	181
Surfclam, Ocean Quahog	164	19

Table 195: Total Number of Trips and Vessels by Species, RHS 4 NJ Merge, 2019

Species	Number of Trips	Number of Vessels
Albacore Tuna	5	4.0
Amber Jack	6	4
American Eel	24.0	10.0
American Lobster	435	34
Atlantic Herring	43.0	11.0
Atlantic Mackerel	225	69
Black Sea Bass	704	125
Bluefish	302.0	76.0
Blueline Tilefish	23	12.0
Bonito	42	12
Butterfish	312	80
Channeled Whelk	13	5.0
Chub Mackerel	19.0	10.0
Conger Eel	147	46
Dogfish Smooth	119	28.0
Dogfish Spiny	109	22.0

Species	Number of Trips	Number of Vessels
Golden Tilefish	72	35
Haddock	4	3
Illex Squid	16.0	11.0
John Dory	39	26
Jonah Crab	227	17.0
King Whiting	30	21.0
Knobbed Whelk	8	4.0
Longfin Squid	648	120
Menhaden	28	6.0
Monkfish	1,294	191
Nk Crab	74.0	5.0
Nk Eel	22.0	10.0
Northern Puffer	17	11
Red Hake	398	62
Rock Crab	79	4.0
Scup	507	108
Sea Robins	41.0	18.0
Sea Scallop	897	145
Silver Hake	464	88.0
Skates	677	93
Spanish Mackerel	8.0	6.0
Spotted Weakfish	34.0	8.0
Squeteague Weakfish	151	49
Summer Flounder	1,188	167
Surf Clam	93	14
Swordfish	4	3
Tautog	15.0	5.0
Triggerfish	17	11.0
Winter Flounder	5	5.0

Table 196: Total Number of Trips and Vessels by Port, RHS 4 NJ Merge, 2019

Port	Number of Trips	Number of Vessels
Atlantic City, NJ	116	10
Barnegat, NJ	360	36
Beaufort, NC	31.0	22.0
Cape May, NJ	108	41
Chincoteague, VA	18	14
Hampton Bay, NY	16	5.0
Hampton, VA	55	27
Montauk, NY	37.0	10.0
New Bedford, MA	95	57
Newport News, VA	34	28
Ocean City, MD	12	4
Point Judith, RI	200	52
Point Pleasant, NJ	1,470	62
Shinnecock, NY	10.0	3
Stonington, CT	14.0	5.0
Wanchese, NC	3.0	3.0

Table 197: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 4 NJ Merge, 2018

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Atlantic Mackerel	31.15	34.89	2.23
Atlantic Chub Mackerel	24.76	16.06	2.67
Atlantic Herring	4.35	6.65	6.86
Spotted Seatrout	3.10	2.90	2.27
Scup	2.87	2.50	1.16
Summer Flounder	2.67	2.72	2.19
Black Sea Bass	2.40	1.72	1.17
Thresher Shark	1.91	1.70	1.29
Spiny Dogfish	1.57	1.50	1.66
All Others	1.47	1.62	0.56

Table 198: Total Number of Trips and Vessels by FMP, RHS 4 NJ Merge, 2018

FMP	Number of Trips	Number of Vessels
American Lobster	516	48
Atlantic Herring	72	16.0
Bluefish	348	87
Golden and Blueline Tilefish	138	47
Highly Migratory Species	43	26.0
Jonah Crab	213	21.0
Mackerel, Squid, and Butterfish	1,064	155.0
Monkfish	1,923	216.0
No Federal FMP	947	140.0
Northeast Multispecies	39.0	20
Sea Scallop	1,324	169
Skates	976	112.0
Small-Mesh Multispecies	709	99
Spiny Dogfish	248	41.0
Summer Flounder, Scup, Black Sea Bass	1,774	186
Surfclam, Ocean Quahog	183	16.0

Table 199: Total Number of Trips and Vessels by Species, RHS 4 NJ Merge, 2018

Species	Number of Trips	Number of Vessels
Albacore Tuna	8	6.0
Amber Jack	13	9
American Eel	59	14.0
American Lobster	516	48
Atlantic Herring	72	16.0
Atlantic Mackerel	317.0	86
Black Sea Bass	812	135
Bluefish	348	87
Blueline Tilefish	50	21
Bonito	44	17

Species	Number of Trips	Number of Vessels
Butterfish	448	91
Chub Mackerel	33.0	10
Clearnose Skate	13.0	7.0
Cobia	5.0	5.0
Cod	7	3.0
Conger Eel	210	54
Dogfish Smooth	168	32
Dogfish Spiny	248	41.0
Dolphinfish	5.0	5.0
Frigate Mackerel	27	7
Golden Tilefish	119	43
Haddock	5	3
Illex Squid	27.0	12.0
John Dory	88	37.0
Jonah Crab	213	21.0
King Mackerel	11.0	4
King Whiting	99	45.0
Little Tuna	35	10
Longfin Squid	860	128.0
Menhaden	20	18.0
Monkfish	1,921	216.0
Mullets	6	4.0
Nk Crab	74	7.0
Nk Eel	53	19.0
Nk Seatrout	8	6
Northern Kingfish	24	12
Offshore Hake	10	7
Other Fish	8	7
Red Hake	429	74
Redfish	11.0	7.0
Rock Crab	58	7.0
Scup	780	126
Sea Robins	69	18
Sea Scallop	1,324	169
Silver Hake	540	85.0
Skates	970	111.0
Spanish Mackerel	28	9.0
Spotted Hake	6	3.0
Spotted Weakfish	84	18.0
Squeteague Weakfish	266	67
Striped Bass	9	6.0
Summer Flounder	1,476	167
Surf Clam	85	11
Swordfish	4	3
Tautog	11	6.0
Thresher Shark	14.0	8.0
Triggerfish	40	23
White Hake	3	3
Winter Flounder	14	4.0



Table 200: Total Number of Trips and Vessels by Port, RHS 4 NJ Merge, 2018

Port	Number of Trips	Number of Vessels
Atlantic City, NJ	164	13
Barnegat, NJ	626	42
Beaufort, NC	70	36
Belford, NJ	174	11
Cape May, NJ	138	52
Chincoteague, VA	21	10.0
Hampton Bay, NY	20.0	5.0
Hampton, VA	38	21
Montauk, NY	89	12.0
New Bedford, MA	121	68
Newport News, VA	33	21
Ocean City, MD	18	5
Point Judith, RI	272	47.0
Point Pleasant, NJ	1,874	69
Shark River, NJ	17	3
Stonington, CT	14.0	6.0
Wanchese, NC	4	4
Wildwood, NJ	9	4

Table 201: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 4 NJ Merge, 2017

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
American Eel	6.65	12.59	0.52
Atlantic Mackerel	6.49	8.07	0.66
Black Sea Bass	2.70	3.60	1.56
Summer Flounder	2.47	2.71	1.90
All Others	2.04	2.27	0.48
Monkfish	1.56	1.85	0.90
Spotted Seatrout	1.47	1.73	3.67
Scup	1.42	1.36	1.26
Clearnose Skate	1.07	1.38	1.89
Red Hake	0.92	0.74	0.77

Table 202: Total Number of Trips and Vessels by FMP, RHS 4 NJ Merge, 2017

FMP	Number of Trips	Number of Vessels
American Lobster	536	63
Atlantic Herring	23	14.0
Bluefish	607	126
Golden and Blueline Tilefish	137	48
Highly Migratory Species	29.0	20.0
Jonah Crab	201	22.0
Mackerel, Squid, and Butterfish	906	139
Monkfish	1,643	219.0

FMP	Number of Trips	Number of Vessels
No Federal FMP	968	143.0
Northeast Multispecies	26	21
Sea Scallop	1,424	264
Skates	1,058	108.0
Small-Mesh Multispecies	590	93.0
Spiny Dogfish	254.0	42.0
Summer Flounder, Scup, Black Sea Bass	1,584	199
Surfclam, Ocean Quahog	180	21

Table 203: Total Number of Trips and Vessels by Species, RHS 4 NJ Merge, 2017

Species	Number of Trips	Number of Vessels
Albacore Tuna	8	7.0
Amber Jack	4	4
American Eel	36	10
American Lobster	536	63
Atlantic Herring	23	14.0
Atlantic Mackerel	181	62.0
Black Sea Bass	790	134
Bluefish	607	126
Blueline Tilefish	53	24
Bonito	50	24
Butterfish	356.0	76.0
Channeled Whelk	11	6.0
Chub Mackerel	16.0	5
Clearnose Skate	19.0	12.0
Cod	5	5.0
Conger Eel	191	48
Dogfish Smooth	202	44
Dogfish Spiny	254.0	42.0
Golden Tilefish	125	45
Illex Squid	18.0	9.0
John Dory	127	43
Jonah Crab	201	22.0
King Whiting	97.0	43.0
Knobbed Whelk	14	8.0
Little Tuna	32	16.0
Longfin Squid	800	125
Mako Shortfin Shark	3	3
Menhaden	25	16.0
Monkfish	1,642	219.0
Nk Crab	37	4.0
Nk Eel	45	15
Nk Seatrout	12	7
Northern Kingfish	12.0	8.0
Offshore Hake	6	4
Other Fish	9.0	5.0
Red Hake	390	74
Redfish	8.0	5.0
Rock Crab	105	7

Species	Number of Trips	Number of Vessels
Scup	640	129
Sea Robins	63	26
Sea Scallop	1,424	264
Silver Hake	445	82
Skates	1,049	105.0
Spanish Mackerel	16.0	6.0
Spotted Weakfish	64	19.0
Squeteague Weakfish	265	74
Striped Bass	6	5
Summer Flounder	1,237	181
Surf Clam	75	15
Swordfish	5	5
Tautog	21	6.0
Thresher Shark	7.0	6.0
Triggerfish	64	33
White Hake	6	5.0
Witch Flounder	3	3

Table 204: Total Number of Trips and Vessels by Port, RHS 4 NJ Merge, 2017

Port	Number of Trips	Number of Vessels
Atlantic City, NJ	162	14
Barnegat, NJ	690	48
Beaufort, NC	40	26
Belford, NJ	202	13
Cape May, NJ	197	72.0
Chincoteague, VA	21	11
Hampton Bay, NY	14.0	4.0
Hampton, VA	84	38
Montauk, NY	40.0	9.0
New Bedford, MA	212	124
Newport News, VA	36	27
Ocean City, MD	21	6
Point Judith, RI	199	47.0
Point Pleasant, NJ	1,622	72
Shinnecock, NY	5	3.0
Stonington, CT	9	6
Wanchese, NC	10	6

Table 205: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 4 NJ Merge, 2016

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Cobia	4.96	3.15	3.31
Spotted Seatrout	2.74	3.15	4.34
All Others	2.63	2.52	0.37
Clearnose Skate	2.34	2.93	1.79
Atlantic Sea Scallop	2.21	2.41	3.13

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Monkfish	1.90	2.37	1.42
Summer Flounder	1.89	1.62	1.63
Scup	1.48	1.17	1.10
Weakfish	1.38	1.70	1.57
Atlantic Bluefish	1.30	1.92	0.96

Table 206: Total Number of Trips and Vessels by FMP, RHS 4 NJ Merge, 2016

FMP	Number of Trips	Number of Vessels
American Lobster	608	47
Atlantic Herring	23	12.0
Bluefish	597	128
Golden and Blueline Tilefish	112	44
Highly Migratory Species	24.0	16.0
Jonah Crab	186	22.0
Mackerel, Squid, and Butterfish	799	149
Monkfish	1,738	251
No Federal FMP	890	145.0
Northeast Multispecies	27	18
Sea Scallop	1,882	284.0
Skates	913	90.0
Small-Mesh Multispecies	443	92.0
Spiny Dogfish	255	39.0
Summer Flounder, Scup, Black Sea Bass	1,585	203
Surfclam, Ocean Quahog	172	23

Table 207: Total Number of Trips and Vessels by Species, RHS 4 NJ Merge, 2016

Species	Number of Trips	Number of Vessels
Albacore Tuna	9	3.0
American Eel	21	10.0
American Lobster	608	47
Atlantic Croaker	29	16
Atlantic Herring	23	12.0
Atlantic Mackerel	143	59.0
Black Sea Bass	716	134
Blue Crab	16	7.0
Bluefish	597	128
Blueline Tilefish	47	26
Bonito	20	13
Butterfish	327	78
Channeled Whelk	60	7.0
Chub Mackerel	3	3
Clearnose Skate	17.0	8
Cobia	5	4
Cod	12	8.0
Conchs	9	8.0

Species	Number of Trips	Number of Vessels
Conger Eel	155	45
Dogfish Smooth	209	42.0
Dogfish Spiny	255	39.0
Golden Tilefish	92	39
Illex Squid	18.0	12.0
John Dory	108	38
Jonah Crab	186	22.0
King Whiting	51.0	30
Knobbed Whelk	5	4.0
Longfin Squid	708	129
Menhaden	21	13.0
Monkfish	1,737	251
Nk Eel	44.0	16.0
Nk Seatrout	8	4
Northern Kingfish	4	3
Offshore Hake	8.0	6.0
Other Fish	12.0	5.0
Red Hake	303	66
Rock Crab	127	6.0
Scup	594	113
Sea Robins	31	16
Sea Scallop	1,882	284.0
Silver Hake	343	83.0
Skates	904	89.0
Spanish Mackerel	6.0	4
Spotted Weakfish	67	17.0
Squeteague Weakfish	213	54
Striped Bass	3	3
Summer Flounder	1,347	185
Surf Clam	95	16
Swordfish	4	4
Tautog	44	6.0
Thresher Shark	10	9
Triggerfish	26	16
Winter Flounder	8	5
Witch Flounder	5	4
Yellowtail Flounder	5	3.0

Table 208: Total Number of Trips and Vessels by Port, RHS 4 NJ Merge, 2016

Port	Number of Trips	Number of Vessels
Atlantic City, NJ	187	19
Barnegat, NJ	785	48
Beaufort, NC	30	22.0
Belford, NJ	176	14.0
Brooklyn, NY	77	3
Cape May, NJ	211	69
Chincoteague, VA	20	11
Freeport, NY	85	5
Hampton Bay, NY	3	3.0

Port	Number of Trips	Number of Vessels
Hampton, VA	89	39
Montauk, NY	33	9.0
Morehead City, NC	4	3
New Bedford, MA	172.0	108.0
New London, CT	12	4.0
Newport News, VA	41	28
Ocean City, MD	10	4
Point Judith, RI	201	51.0
Point Pleasant, NJ	1,701	76
Stonington, CT	12	6
Wanchese, NC	13.0	10.0

Table 209: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 4 NJ Merge, 2015

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Atlantic Mackerel	4.25	7.34	1.00
Black Sea Bass	3.57	3.13	2.40
Red Hake	2.59	1.76	0.69
Summer Flounder	2.43	2.45	1.73
Scup	2.33	2.16	1.38
Monkfish	2.06	2.53	1.75
Atlantic Bluefish	1.62	2.75	1.90
Atlantic Sea Scallop	1.44	1.49	3.03
Offshore Hake	1.20	0.62	0.78
Spotted Seatrout	1.06	1.12	1.37

Table 210: Total Number of Trips and Vessels by FMP, RHS 4 NJ Merge, 2015

FMP	Number of Trips	Number of Vessels
American Lobster	626	44
Atlantic Herring	45	16.0
Bluefish	543	130
Golden and Blueline Tilefish	99	36.0
Highly Migratory Species	23	15.0
Jonah Crab	296	22.0
Mackerel, Squid, and Butterfish	813	152.0
Monkfish	2,041	251
No Federal FMP	982	148.0
Northeast Multispecies	51	25
Sea Scallop	1,461	218
Skates	966	92
Small-Mesh Multispecies	533	77.0
Spiny Dogfish	266	36.0
Summer Flounder, Scup, Black Sea Bass	1,548	195
Surfclam, Ocean Quahog	95	19.0

Table 211: Total Number of Trips and Vessels by Species, RHS 4  
 NJ Merge, 2015

Species	Number of Trips	Number of Vessels
Albacore Tuna	10	4.0
American Eel	25	8.0
American Lobster	626	44
Atlantic Croaker	41	32.0
Atlantic Herring	45	16.0
Atlantic Mackerel	122	58.0
Black Sea Bass	741	128
Bluefish	543	130
Blueline Tilefish	40	19.0
Bonito	25	13
Butterfish	245	71.0
Channeled Whelk	81	10.0
Chub Mackerel	8	7
Cod	10	8.0
Conchs	19	6.0
Conger Eel	188	45
Dogfish Smooth	233	46.0
Dogfish Spiny	266	36.0
Fourspot Flounder	8	3.0
Golden Tilefish	84	30.0
Harvest Fish	6	4
Illex Squid	21.0	13.0
John Dory	101	39
Jonah Crab	296	22.0
King Whiting	53	33.0
Knobbed Whelk	15	5.0
Longfin Squid	736	135.0
Menhaden	14.0	9.0
Monkfish	2,040	251
Nk Eel	34	14.0
Northern Stargazer	9	3
Ns Squids	3	3
Offshore Hake	14.0	5.0
Other Fish	18	10.0
Red Hake	371	59
Rock Crab	133	11.0
Scup	539	121
Sea Robins	51	23
Sea Scallop	1,461	218
Silver Hake	401	64.0
Skates	962	92
Spot	4	4
Spotted Weakfish	41	13.0
Squeteague Weakfish	189	57
Summer Flounder	1,269	176
Surf Clam	43	11.0
Swordfish	5	4
Tautog	15.0	5.0
Thresher Shark	7	6

Species	Number of Trips	Number of Vessels
Triggerfish	25	18.0
White Hake	4	4.0
Winter Flounder	13	7.0
Witch Flounder	20	9
Yellowtail Flounder	14	7.0

Table 212: Total Number of Trips and Vessels by Port, RHS 4 NJ Merge, 2015

Port	Number of Trips	Number of Vessels
Atlantic City, NJ	155	21
Barnegat, NJ	664	48
Beaufort, NC	56	34
Cape May, NJ	230	69
Chincoteague, VA	25	14
Hampton, VA	62	30
Montauk, NY	46	10.0
Morehead City, NC	6	3
New Bedford, MA	102	64
New London, CT	17	4.0
Newport News, VA	41	28
Ocean City, MD	19	5
Point Judith, RI	191	48
Point Pleasant, NJ	1,940	78
Shinnecock, NY	17	3
Stonington, CT	10.0	4
Wanchese, NC	14	7
Waretown, NJ	15	3

Table 213: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 4 NJ Merge, 2014

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Atlantic Sea Scallop	2.94	3.27	4.38
Monkfish	2.38	3.19	1.96
Red Hake	1.64	1.57	0.89
Black Sea Bass	1.49	1.50	1.59
Atlantic Bluefish	1.43	2.09	1.50
Summer Flounder	1.40	1.50	1.89
Skipjack Tuna	1.16	0.82	3.11
Spot	1.02	0.94	0.30
Scup	0.94	0.79	0.64
Spotted Seatrout	0.93	0.86	1.16



Table 214: Total Number of Trips and Vessels by FMP, RHS 4 NJ Merge, 2014

FMP	Number of Trips	Number of Vessels
American Lobster	786	58.0
Atlantic Herring	24	11.0
Bluefish	601	135
Golden and Blueline Tilefish	84	28.0
Highly Migratory Species	52	22.0
Jonah Crab	212	22
Mackerel, Squid, and Butterfish	994	147.0
Monkfish	2,600	335
No Federal FMP	1,083	152.0
Northeast Multispecies	117	44
Sea Scallop	2,086	325
Skates	1,236	104.0
Small-Mesh Multispecies	713	91.0
Spiny Dogfish	240	43.0
Summer Flounder, Scup, Black Sea Bass	1,776	207
Surfclam, Ocean Quahog	145	23

Table 215: Total Number of Trips and Vessels by Species, RHS 4 NJ Merge, 2014

Species	Number of Trips	Number of Vessels
Albacore Tuna	19	6.0
American Eel	25	11.0
American Lobster	786	58.0
Atlantic Croaker	87	39
Atlantic Herring	24	11.0
Atlantic Mackerel	104	42.0
Black Sea Bass	826	130
Bluefish	601	135
Blueline Tilefish	33	16.0
Bonito	44	14
Butterfish	377	76
Channeled Whelk	108	10.0
Chub Mackerel	25	12.0
Cobia	5	4
Cod	29	12.0
Conchs	52	12.0
Conger Eel	157	44
Dogfish Smooth	326	51.0
Dogfish Spiny	240	43.0
Fourspot Flounder	5	4.0
Frigate Mackerel	34	7
Golden Tilefish	74	27.0
Hickory Shad	4	3
Illex Squid	25.0	10.0
John Dory	89	36
Jonah Crab	212	22
King Mackerel	3	3

Species	Number of Trips	Number of Vessels
King Whiting	61.0	28.0
Knobbed Whelk	13	8.0
Lightning Whelk	32	3.0
Little Tuna	30	11.0
Longfin Squid	922	134.0
Menhaden	19.0	11.0
Monkfish	2,599	335
Nk Eel	43	14
Nk Seatrout	8	5
Northern Stargazer	7	4
Offshore Hake	14.0	7.0
Other Fish	7.0	5.0
Pollock	3	3
Red Hake	472	63
Rock Crab	74	9.0
Scup	465	115
Sea Robins	37	21
Sea Scallop	2,086	325
Silver Hake	562	76.0
Skates	1,229	102.0
Skipjack Tuna	23	6.0
Spanish Mackerel	5.0	3
Spot	6	5.0
Spotted Weakfish	43	11.0
Squeteague Weakfish	184	57
Striped Bass	3	3
Summer Flounder	1,528	194
Surf Clam	82	15.0
Swordfish	4	4
Tautog	11.0	5.0
Thresher Shark	11.0	6.0
Triggerfish	31	25
White Hake	5	4
Winter Flounder	51	11.0
Witch Flounder	10	6
Yellowtail Flounder	39	23

Table 216: Total Number of Trips and Vessels by Port, RHS 4 NJ Merge, 2014

Port	Number of Trips	Number of Vessels
Atlantic City, NJ	258	22
Barnegat, NJ	832	53
Beaufort, NC	22	16
Belford, NJ	220	13
Cape May, NJ	286	81
Chincoteague, VA	27	14
Davisville, RI	15.0	4.0
Hampton, VA	29	17
Montauk, NY	37	9.0
New Bedford, MA	239	128.0

Port	Number of Trips	Number of Vessels
New London, CT	22	3
Newport News, VA	58	34
Ocean City, MD	15	3
Oriental, NC	13	5
Point Judith, RI	214	45.0
Point Lookout, NY	132	9
Point Pleasant, NJ	2,158	96
Shinnecock, NY	9.0	7
Stonington, CT	11.0	9.0
Wanchese, NC	25	13

Table 217: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 4 NJ Merge, 2013

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Thresher Shark	7.32	7.72	2.65
Atlantic Sea Scallop	2.52	2.81	4.25
Atlantic Bluefish	2.11	2.69	1.23
Red Hake	1.96	1.94	0.93
Cobia	1.81	1.90	0.96
Spotted Seatrout	1.79	2.03	2.94
Scup	1.68	1.72	0.96
Monkfish	1.64	2.02	1.68
Summer Flounder	1.27	1.42	2.17
Yellowfin Tuna	1.26	1.39	0.13

Table 218: Total Number of Trips and Vessels by FMP, RHS 4 NJ Merge, 2013

FMP	Number of Trips	Number of Vessels
American Lobster	878	59.0
Atlantic Herring	37	13.0
Bluefish	529	128
Golden and Blueline Tilefish	100	38.0
Highly Migratory Species	29	18
Jonah Crab	242	18.0
Mackerel, Squid, and Butterfish	781	125.0
Monkfish	2,489	244.0
No Federal FMP	1,193	155.0
Northeast Multispecies	121	42
Sea Scallop	2,218	222
Skates	1,143	84.0
Small-Mesh Multispecies	802	91
Spiny Dogfish	253	50.0
Summer Flounder, Scup, Black Sea Bass	1,774	180
Surfclam, Ocean Quahog	187	23.0

Table 219: Total Number of Trips and Vessels by Species, RHS 4  
NJ Merge, 2013

Species	Number of Trips	Number of Vessels
Albacore Tuna	3	3
American Eel	14	9
American Lobster	878	59.0
Atlantic Croaker	65	27.0
Atlantic Herring	37	13.0
Atlantic Mackerel	40	21
Black Sea Bass	675	111
Bluefish	529	128
Blueline Tilefish	40	15.0
Bonito	14	9
Butterfish	348	75
Channeled Whelk	84	14.0
Chub Mackerel	5	3
Cobia	7.0	6.0
Cod	30	12
Conchs	103.0	20.0
Conger Eel	181	47
Dogfish Smooth	330	49
Dogfish Spiny	253	50.0
Golden Tilefish	77	33
Horseshoe Crab	3.0	3.0
Illex Squid	18.0	9.0
John Dory	113	41.0
Jonah Crab	242	18.0
King Whiting	36	18
Knobbed Whelk	13	5.0
Lightning Whelk	22.0	4
Little Tuna	7	4
Longfin Squid	718	117
Menhaden	32	10.0
Monkfish	2,489	244.0
Nk Eel	39	15
Nk Seatrout	15	9
Northern Puffer	18.0	9.0
Octopus	18	4
Offshore Hake	16	9.0
Red Hake	620	70.0
Rock Crab	71	11.0
Scup	468	108
Sea Robins	43	19
Sea Scallop	2,218	222
Silver Hake	529	77.0
Skates	1,139	84.0
Spot	10	8
Spotted Weakfish	83	13.0
Squeteague Weakfish	230	56
Summer Flounder	1,602	167
Surf Clam	152	16
Swordfish	7	7

Species	Number of Trips	Number of Vessels
Tautog	25	11.0
Thresher Shark	8	6
Triggerfish	35	19
Waved Whelk	119	11
White Hake	4	4
Winter Flounder	43	9.0
Witch Flounder	32	7
Yellowfin Tuna	3	3
Yellowtail Flounder	44	21

Table 220: Total Number of Trips and Vessels by Port, RHS 4 NJ Merge, 2013

Port	Number of Trips	Number of Vessels
Atlantic City, NJ	227	22
Barnegat, NJ	1,191	51
Beaufort, NC	4.0	3.0
Cape May, NJ	202	62
Chincoteague, VA	39	17
Freeport, NY	67	4
Hampton, VA	44.0	17
Montauk, NY	43	12
Neptune, NJ	59	3
New Bedford, MA	84	63.0
New London, CT	22	4
Newport News, VA	58	28
Newport, RI	4	3
Ocean City, MD	10	5
Point Judith, RI	193	40.0
Point Lookout, NY	148	8
Point Pleasant, NJ	2,477	86
Shinnecock, NY	17.0	5.0
Stonington, CT	10	6.0
Waretown, NJ	43	3

Table 221: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 4 NJ Merge, 2012

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Atlantic Chub Mackerel	12.77	12.98	0.71
Atlantic Mackerel	7.31	13.26	0.92
Atlantic Sea Scallop	2.72	3.13	4.00
Red Hake	2.29	3.11	0.96
Cobia	1.77	1.72	1.52
Monkfish	1.72	2.23	1.79
American Lobster	1.62	1.55	0.57
Summer Flounder	1.47	1.53	2.12
Atlantic Bluefish	1.26	2.16	1.00
Scup	1.10	1.62	0.86

Table 222: Total Number of Trips and Vessels by FMP, RHS 4 NJ Merge, 2012

FMP	Number of Trips	Number of Vessels
American Lobster	1,039	83
Atlantic Herring	59.0	17.0
Bluefish	827	149
Golden and Blueline Tilefish	96.0	33
Highly Migratory Species	20	13.0
Jonah Crab	207	24.0
Mackerel, Squid, and Butterfish	1,338	151.0
Monkfish	2,354	280
No Federal FMP	947	153
Northeast Multispecies	98	42.0
Sea Scallop	2,223	269.0
Skates	1,213	93
Small-Mesh Multispecies	722	83.0
Spiny Dogfish	361	53.0
Summer Flounder, Scup, Black Sea Bass	2,082	211
Surfclam, Ocean Quahog	226	22

Table 223: Total Number of Trips and Vessels by Species, RHS 4 NJ Merge, 2012

Species	Number of Trips	Number of Vessels
Albacore Tuna	7	4.0
American Eel	17	9
American Lobster	1,039	83
American Shad	6	5.0
Atlantic Croaker	12.0	9.0
Atlantic Herring	59.0	17.0
Atlantic Mackerel	128.0	34.0
Black Sea Bass	767	138
Bluefish	827	149
Blueline Tilefish	39	13.0
Bonito	38	13
Butterfish	469	80
Chub Mackerel	10	4
Cobia	8	5
Cod	34	13
Conchs	11	4.0
Conger Eel	167	41
Dogfish Smooth	340	48.0
Dogfish Spiny	361	53.0
Fourspot Flounder	19	6.0
Golden Tilefish	81	31
Illex Squid	19.0	11.0
John Dory	106	39.0
Jonah Crab	207	24.0
King Whiting	44	24.0
Little Tuna	26	13.0
Longfin Squid	1,244	138.0

Species	Number of Trips	Number of Vessels
Mako Shortfin Shark	12	6
Monkfish	2,354	280
Mulletts	4	4.0
Nk Crab	12.0	4.0
Nk Eel	36	15.0
Nk Seatrout	12	5
Offshore Hake	7.0	5
Red Crab	5	3
Red Hake	574	63.0
Redfish	10	6.0
Rock Crab	73	13.0
Scup	439	114
Sea Robins	65	19
Sea Scallop	2,223	269.0
Silver Hake	539	65
Skates	1,211	92
Spotted Weakfish	45	12.0
Squeteague Weakfish	189	60
Summer Flounder	1,884	191
Surf Clam	185	17
Swordfish	5	4
Tautog	26	11
Triggerfish	40	21
Winter Flounder	7	5
Witch Flounder	16	8
Yellowtail Flounder	58	21

Table 224: Total Number of Trips and Vessels by Port, RHS 4 NJ Merge, 2012

Port	Number of Trips	Number of Vessels
Atlantic City, NJ	148	20
Barnegat, NJ	777	54
Beaufort, NC	7	6
Belford, NJ	266	12
Belmar, NJ	33	3
Brielle, NJ	95	4
Cape May, NJ	219	87
Chincoteague, VA	47	15
Freeport, NY	75	6
Hampton, VA	67	26
Montauk, NY	79	13.0
Neptune, NJ	75	5
New Bedford, MA	126	80.0
New London, CT	19	4.0
Newport News, VA	84	44
Ocean City, MD	10	4
Point Judith, RI	140	27
Point Lookout, NY	348	14
Point Pleasant, NJ	2,792	93
Shark River, NJ	44	6

Port	Number of Trips	Number of Vessels
Shinnecock, NY	12	5.0
Waretown, NJ	57	3

Table 225: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 4 NJ Merge, 2011

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Atlantic Sea Scallop	6.13	7.19	7.42
Atlantic Surfclams	4.40	5.27	4.22
Atlantic Bluefish	3.20	4.89	1.51
Summer Flounder	1.97	2.03	1.96
Cobia	1.69	1.63	2.62
Thresher Shark	1.61	1.69	1.50
Spiny Dogfish	1.60	1.75	2.85
Red Hake	1.52	1.39	1.08
Monkfish	1.44	1.85	2.24
Spotted Seatrout	1.40	1.52	1.01

Table 226: Total Number of Trips and Vessels by FMP, RHS 4 NJ Merge, 2011

FMP	Number of Trips	Number of Vessels
American Lobster	897	70
Atlantic Herring	112	23.0
Bluefish	746	132
Golden and Blueline Tilefish	101	42.0
Highly Migratory Species	41	23.0
Jonah Crab	190	30.0
Mackerel, Squid, and Butterfish	983	146
Monkfish	2,485	317.0
No Federal FMP	961	142
Northeast Multispecies	109	40.0
Sea Scallop	3,182	371
Skates	1,482	107.0
Small-Mesh Multispecies	605	72.0
Spiny Dogfish	586	57
Summer Flounder, Scup, Black Sea Bass	2,035	202
Surfclam, Ocean Quahog	566	24.0

Table 227: Total Number of Trips and Vessels by Species, RHS 4 NJ Merge, 2011

Species	Number of Trips	Number of Vessels
American Eel	25	17.0
American Lobster	897	70
American Shad	11	5.0
Atlantic Croaker	16.0	13.0



Species	Number of Trips	Number of Vessels
Atlantic Herring	112	23.0
Atlantic Mackerel	93	43.0
Black Drum	4	4
Black Sea Bass	744	126
Blue Crab	4	4
Bluefish	746	132
Blueline Tilefish	33	16
Bonito	51	14
Butterfish	274	69
Channeled Whelk	24	3.0
Cobia	7	4
Cod	33	10
Conger Eel	122	39
Dogfish Smooth	382	60
Dogfish Spiny	586	57
Dolphinfish	3	3
Golden Tilefish	86	37.0
Illex Squid	37	13.0
John Dory	102	34
Jonah Crab	190	30.0
King Whiting	34	18.0
Little Tuna	6	6.0
Longfin Squid	903	128
Menhaden	8	6.0
Monkfish	2,485	317.0
Nk Eel	17	10.0
Nk Seatrout	8	5.0
Ocean Quahog	100	10
Offshore Hake	9.0	5.0
Other Fish	4	4.0
Red Hake	434	58.0
Rock Crab	99	14.0
Sand-Dab Flounder	24	3
Scup	438	112
Sea Robins	60	24
Sea Scallop	3,182	371
Silver Hake	438	57.0
Skates	1,482	107.0
Spotted Weakfish	23	10.0
Squeteague Weakfish	133	46
Striped Bass	8	7
Summer Flounder	1,867	190
Surf Clam	466	19
Swordfish	12	7
Tautog	50	11.0
Thresher Shark	11	9
Triggerfish	8	6
White Hake	5	5
Winter Flounder	8	7
Witch Flounder	4	3
Yellowtail Flounder	64	22

Table 228: Total Number of Trips and Vessels by Port, RHS 4 NJ Merge, 2011

Port	Number of Trips	Number of Vessels
Atlantic City, NJ	462	23
Barnegat, NJ	1,103	55
Belford, NJ	196	16
Brielle, NJ	115	6
Brooklyn, NY	20	3
Cape May, NJ	248	92
Freeport, NY	122	6
Hampton, VA	59	24
Montauk, NY	98	12.0
New Bedford, MA	269	136
New London, CT	21	7.0
Newport News, VA	111	49
Newport, RI	5	4
North Kingstown, RI	24	4
Ocean City, MD	5	5
Oriental, NC	6	4
Point Judith, RI	155	36.0
Point Lookout, NY	383	14
Point Pleasant, NJ	2,930	113
Shark River, NJ	39	5
Shinnecock, NY	19	10.0
Stonington, CT	11	7
Wanchese, NC	34	18
Waretown, NJ	91	5
Wildwood, NJ	12	6

Table 229: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 4 NJ Merge, 2010

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Atlantic Mackerel	18.15	27.70	1.40
Atlantic Bluefish	11.12	11.56	1.89
Thresher Shark	5.93	5.59	4.39
Atlantic Sea Scallop	4.81	6.21	5.87
Red Hake	4.02	4.63	1.17
American Eel	3.57	3.76	0.50
Monkfish	3.36	4.52	2.64
Atlantic Surfclams	2.06	2.91	2.31
Spotted Seatrout	1.87	2.10	2.41
Atlantic Herring	1.82	2.72	2.84

Table 230: Total Number of Trips and Vessels by FMP, RHS 4 NJ Merge, 2010

FMP	Number of Trips	Number of Vessels
American Lobster	1,138	82

FMP	Number of Trips	Number of Vessels
Atlantic Herring	162	36.0
Bluefish	721	122
Golden and Blueline Tilefish	131	49
Highly Migratory Species	54	20.0
Jonah Crab	281	24.0
Mackerel, Squid, and Butterfish	884	138
Monkfish	2,303	337
No Federal FMP	1,186	145.0
Northeast Multispecies	78	43
Sea Scallop	2,399	370.0
Skates	1,363	97
Small-Mesh Multispecies	699	94.0
Spiny Dogfish	302	42.0
Summer Flounder, Scup, Black Sea Bass	1,936	210
Surfclam, Ocean Quahog	487	26

Table 231: Total Number of Trips and Vessels by Species, RHS 4 NJ Merge, 2010

Species	Number of Trips	Number of Vessels
Albacore Tuna	3.0	3
American Eel	21	14.0
American Lobster	1,138	82
American Shad	5	4.0
Atlantic Croaker	14	9
Atlantic Herring	162	36.0
Atlantic Mackerel	152	67.0
Black Sea Bass	727	119
Black Tip Shark	13	5
Bluefish	721	122
Blueline Tilefish	26	19
Bonito	117	21.0
Butterfish	341	71
Channeled Whelk	21	4.0
Cod	7	4
Conchs	26.0	6.0
Conger Eel	233	46
Cunner	4	3
Dogfish Smooth	400	53.0
Dogfish Spiny	302	42.0
Dolphinfish	20	5
Fourspot Flounder	11	4.0
Golden Tilefish	124	45.0
Illex Squid	31.0	18.0
John Dory	103	41
Jonah Crab	281	24.0
King Whiting	48	23.0
Little Tuna	5	5.0
Longfin Squid	773	108.0
Menhaden	23	13
Monkfish	2,303	337

Species	Number of Trips	Number of Vessels
Nk Eel	66	19
Nk Seatrout	12	7.0
Nk Tilefish	5	4
Ocean Quahog	110	10.0
Offshore Hake	16.0	10.0
Other Fish	6.0	4.0
Red Hake	561	75.0
Red Porgy	4	3
Redfish	7.0	6.0
Rock Crab	108	14
Scup	495	114
Sea Raven	7	3
Sea Robins	81	19
Sea Scallop	2,399	370.0
Silver Hake	505	74
Skates	1,363	97
Southern Flounder	3	3
Spotted Weakfish	64	11.0
Squeteague Weakfish	191	54.0
Striped Bass	13	7.0
Summer Flounder	1,732	190
Surf Clam	377	20
Tautog	32	6.0
Thresher Shark	18	12.0
Triggerfish	7	4
White Hake	27	14
Winter Flounder	5	4
Witch Flounder	10	8
Yellowtail Flounder	26	17

Table 232: Total Number of Trips and Vessels by Port, RHS 4 NJ Merge, 2010

Port	Number of Trips	Number of Vessels
Atlantic City, NJ	283	21
Barnegat, NJ	1,239	58
Beaufort, NC	7	7
Belford, NJ	187	14
Brielle, NJ	27	3
Brooklyn, NY	22	4
Cape May, NJ	195	85
Chincoteague, VA	12	8
Fairhaven, MA	10	5.0
Fall River, MA	9	4.0
Freeport, NY	90	5
Hampton, VA	40	24
Montauk, NY	60	9.0
Neptune, NJ	50	4
New Bedford, MA	293	151
New London, CT	15	6.0
Newport News, VA	79	43

Port	Number of Trips	Number of Vessels
North Kingstown, RI	21	5
Oriental, NC	6	6
Other Nassau, NY	13	5
Other Ocean, NJ	4	4
Point Judith, RI	166	36.0
Point Lookout, NY	159	9
Point Pleasant, NJ	2,629	97
Shark River, NJ	156	7
Shinnecock, NY	34	16
Stonington, CT	26	8
Wanchese, NC	14	10
Waretown, NJ	79	4

Table 233: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 4 NJ Merge, 2009

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Atlantic Mackerel	14.57	17.82	3.04
American Eel	14.04	8.70	0.58
Atlantic Bluefish	4.76	5.84	1.58
Thresher Shark	4.32	2.82	1.20
Atlantic Sea Scallop	3.73	4.79	6.87
Monkfish	3.26	4.80	3.16
Red Hake	3.14	3.15	1.29
Cobia	3.02	2.41	4.53
Atlantic Surfclams	2.56	3.37	3.04
Atlantic Herring	2.25	3.16	3.60

Table 234: Total Number of Trips and Vessels by FMP, RHS 4 NJ Merge, 2009

FMP	Number of Trips	Number of Vessels
American Lobster	1,183	86.0
Atlantic Herring	234	33.0
Bluefish	675	125
Golden and Blueline Tilefish	81	34.0
Highly Migratory Species	34.0	19.0
Jonah Crab	121	22.0
Mackerel, Squid, and Butterfish	1,004	153.0
Monkfish	3,668	339
No Federal FMP	1,038	158.0
Northeast Multispecies	68	41
Sea Scallop	5,026	345.0
Skates	1,302	101.0
Small-Mesh Multispecies	812	100.0
Spiny Dogfish	324	44.0
Summer Flounder, Scup, Black Sea Bass	2,298	202
Surfclam, Ocean Quahog	441	26

Table 235: Total Number of Trips and Vessels by Species, RHS 4  
 NJ Merge, 2009

Species	Number of Trips	Number of Vessels
Albacore Tuna	6	3.0
American Eel	14	8.0
American Lobster	1,183	86.0
American Shad	16	8.0
Atlantic Croaker	36	25
Atlantic Herring	234	33.0
Atlantic Mackerel	189	68.0
Black Sea Bass	554	100
Blue Crab	4	4.0
Bluefish	675	125
Blueline Tilefish	12.0	8.0
Bonito	71	23.0
Butterfish	345	75
Cobia	6	5
Cod	8	4
Conchs	46	4.0
Conger Eel	125	40
Dogfish Smooth	362.0	47.0
Dogfish Spiny	324	44.0
Fourspot Flounder	7.0	4.0
Golden Tilefish	70	32.0
Illex Squid	12.0	9.0
John Dory	52	24.0
Jonah Crab	121	22.0
King Whiting	33	20.0
Longfin Squid	859	126.0
Mako Shortfin Shark	4	4
Menhaden	26.0	11.0
Monkfish	3,668	339
Nk Eel	37	16.0
Nk Porgy	23	16
Nk Seatrout	5	4.0
Nk Tilefish	7	3
Offshore Hake	24.0	13.0
Other Fish	6	3
Pollock	4	3
Red Hake	641	81.0
Redfish	4	3
Rock Crab	69	14.0
Sand-Dab Flounder	11	9
Scup	420	104
Sea Robins	54	23
Sea Scallop	5,026	345.0
Silver Hake	651	80
Skates	1,302	101.0
Southern Flounder	10.0	7.0
Spanish Mackerel	8.0	8.0
Spot	5	5
Spotted Weakfish	59.0	15.0

Species	Number of Trips	Number of Vessels
Squeteague Weakfish	177	55
Striped Bass	8	8
Summer Flounder	2,163	179
Surf Clam	432	22
Swordfish	5	4
Tautog	38.0	15.0
Thresher Shark	11	8
Triggerfish	11	7
White Hake	13	10
Winter Flounder	17	11.0
Witch Flounder	12	11
Yellowtail Flounder	10	8

Table 236: Total Number of Trips and Vessels by Port, RHS 4 NJ Merge, 2009

Port	Number of Trips	Number of Vessels
Atlantic City, NJ	350	21
Barnegat, NJ	1,400	61
Beaufort, NC	7	5
Belford, NJ	344	19
Brielle, NJ	23	3
Brooklyn, NY	17	3
Cape May, NJ	152	73
Freeport, NY	299	12
Hampton, VA	42	23
Montauk, NY	62	13.0
New Bedford, MA	204	112
New London, CT	11	5.0
Newport News, VA	78	38
Newport, RI	16.0	7.0
Oriental, NC	7	6
Point Judith, RI	162.0	37.0
Point Lookout, NY	1,015	25
Point Pleasant, NJ	3,846	111
Shark River, NJ	172	6
Shinnecock, NY	64	16.0
Stonington, CT	14	6
Wanchese, NC	20	13
Waretown, NJ	89	4

Table 237: Percentages of Total, Revenue, Landings, and Days-at-Sea for Species of Interest, RHS 4 NJ Merge, 2008

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Atlantic Mackerel	15.90	20.59	3.16
Atlantic Surfclams	3.66	4.52	4.00
Monkfish	3.14	5.16	3.46
Windowpane Flounder	2.97	3.07	0.56

Species	Revenue as % of Total	Landings as % of Total	DAS as % of Total
Red Hake	2.52	2.81	1.34
Atlantic Herring	2.44	4.16	4.04
Atlantic Bluefish	2.44	3.45	1.27
Atlantic Sea Scallop	2.42	2.95	4.99
Black Drum	1.67	1.42	1.67
American Shad	1.31	1.53	0.42

Table 238: Total Number of Trips and Vessels by FMP, RHS 4 NJ Merge, 2008

FMP	Number of Trips	Number of Vessels
American Lobster	1,138	73
Atlantic Herring	193	36.0
Bluefish	532	104.0
Golden and Blueline Tilefish	67	36
Highly Migratory Species	12.0	11.0
Jonah Crab	104	20.0
Mackerel, Squid, and Butterfish	1,006	162
Monkfish	4,729	370.0
No Federal FMP	1,007	158
Northeast Multispecies	447	66
Sea Scallop	5,221	328
Skates	1,226	95.0
Small-Mesh Multispecies	836	103.0
Spiny Dogfish	158	20
Summer Flounder, Scup, Black Sea Bass	1,795	213
Surfclam, Ocean Quahog	617	23.0

Table 239: Total Number of Trips and Vessels by Species, RHS 4 NJ Merge, 2008

Species	Number of Trips	Number of Vessels
Am. Plaice Flounder	11	5
American Eel	10	8.0
American Lobster	1,138	73
American Shad	16.0	9.0
Atlantic Croaker	42	20
Atlantic Herring	193	36.0
Atlantic Mackerel	223.0	75
Black Drum	6	4
Black Sea Bass	592	127
Bluefish	532	104.0
Blueline Tilefish	4	4
Bonito	32	13.0
Butterfish	409	86
Channeled Whelk	52	7.0
Cod	6	3
Conchs	39	8.0
Conger Eel	94	36



Species	Number of Trips	Number of Vessels
Dogfish Smooth	332	43.0
Dogfish Spiny	158	20
Fourspot Flounder	14	4.0
Golden Tilefish	61	33.0
Harvest Fish	8	6
Illex Squid	10.0	6.0
John Dory	77	43
Jonah Crab	104	20.0
King Whiting	102	27.0
Knobbed Whelk	8	4.0
Longfin Squid	822	128.0
Menhaden	18	11.0
Monkfish	4,729	370.0
Nk Eel	27	11.0
Nk Porgy	10	7
Nk Seatrout	8	8.0
Ocean Pout	5	3.0
Ocean Quahog	21	6
Offshore Hake	24	10.0
Other Fish	9.0	6.0
Red Hake	632	76
Rock Crab	63.0	10.0
Sand Tilefish	6	3
Sand-Dab Flounder	72	13
Scup	295	108
Sea Robins	62	22
Sea Scallop	5,221	328
Silver Hake	604	84
Skates	1,226	95.0
Southern Flounder	15	7
Spotted Weakfish	89.0	22.0
Squeteague Weakfish	231	68
Striped Bass	6	5.0
Summer Flounder	1,607	186
Surf Clam	596	19
Tautog	24.0	9.0
Triggerfish	6	4
White Hake	24	15
Winter Flounder	400	45
Witch Flounder	58	18
Yellowtail Flounder	17	7

Table 240: Total Number of Trips and Vessels by Port, RHS 4 NJ Merge, 2008

Port	Number of Trips	Number of Vessels
Atlantic City, NJ	337	20
Barnegat, NJ	238	45
Beaufort, NC	19	9
Belford, NJ	483	21
Cape May, NJ	158	73

Port	Number of Trips	Number of Vessels
Freeport, NY	498	16
Gloucester, MA	29	5
Greenport, NY	5	3
Indian River, DE	4	3
Islip, NY	77	3
Long Beach, NJ	1,456	62
Montauk, NY	53	13.0
New Bedford, MA	195	85.0
New London, CT	23	9.0
Newport News, VA	66	38
North Kingstown, RI	27.0	5.0
Ocean City, MD	6	3
Oriental, NC	19	11
Point Judith, RI	74	28.0
Point Lookout, NY	761	20
Point Pleasant, NJ	3,780	92
Shinnecock, NY	47	17.0
Stonington, CT	21	9
Wanchese, NC	24	16
Waretown, NJ	109	4

# Tables and Reports for Small Mesh Bottom Trawl - River Herring Areas

Min-Yang Lee

June 10, 2021

[Back](#)

Descriptions of Selected Fishery Landings and Estimates of Vessel Revenue from Selected Areas

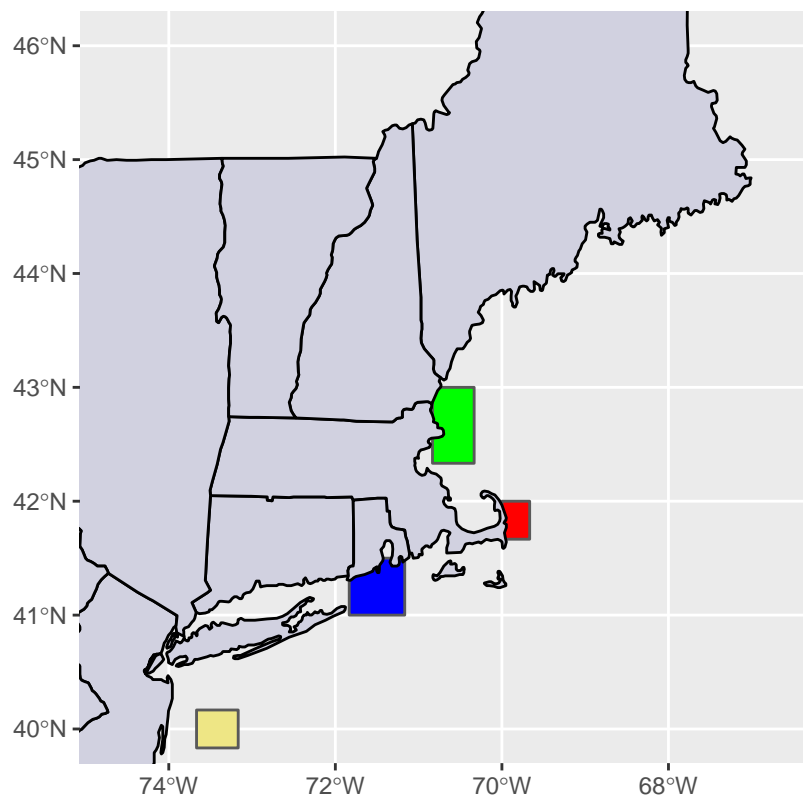
Small Mesh Bottom Trawl only ( $\leq 3.5$  inch mesh)

**Please keep in mind that we confined our analysis to only trips that fished with small mesh bottom trawl gear. This means that, while we have figures that describe impacts in percentage terms (say, the percentage of revenues by a permit that are in a particular area), the denominator in those sections is “small mesh bottom trawl revenue” and not “all fishing revenue”**

Prepared by:  
National Marine Fisheries Service

June 10, 2021

## River Herring and Shad



#### Data sources:

Commerical Fisheries landings data, Vessel Trip Reports, and Surfclam/OceanQuahog Logbooks

**In order to meet requirements of maintaining data confidentiality, these strata are presented individually. In addition, records that did not meet the rule of three ( $\geq 3$  unique dealers and  $\geq 3$  unique permits), values were summarized as ‘ALL OTHERS’.**

Some caveats/notes: \* When mapped, values are reported in nominal dollars per square kilometer. \* When mapped, values reported are nominal dollars per square kilometer. \* Values are reported in nominal dollars. Values in 2019 dollars are reported as well (see below for details). \* Pounds are reported in landed (dressed) pounds. \* Data summarized here is based on vessels that are required to provide federal VTRs. \* Federal lobster vessels, with only lobster permits, do not have a VTR requirement. Many Atlantic Highly Migratory Species permitted vessels also do not have a VTR requirement. Trips with no VTR are not reflected in this summary. \* There exist other fisheries in State waters that may not be reflected in data from federal sources (e.g. whelk, bluefish). It is recommended to query state agencies for additional data within state waters. \* All summaries presented here are built from percentages of a trip that overlapped spatially with the areas. These percentages were applied to landings and values for that trip and summed. This differs from simply using the self-reported VTR/clam logbook locations as those place all value from that trip at a single point. Use of the VTR raster model is more representative as smoothing reported locations reduces the effect of location inaccuracy.

#### References

DePiper GS (2014) [Statistically assessing the precision of self-reported VTR fishing locations.](#)  
Benjamin S, Lee MY, DePiper G. 2018. [Visualizing fishing data as rasters.](#) NEFSC Ref Doc 18-12; 24 p.

## Most Impacted FMPs

We define “most impacted” as the FMPs deriving the most revenue from the areas over the twelve year analysis period of 2008 to 2019, indicating the highest potential for impact to industry from a reduction in fishing area. The top 5 FMPs by revenue between all areas were Mackerel, Squid, and Butterfish, Small-Mesh Multispecies, Summer Flounder, Scup, Black Sea Bass, Atlantic Herring and No Federal FMP.” The category “No Federal FMP” contains a variety of species that are not federally regulated, such as: smooth and chain dogfish, whelk, and menhaden, (there are close to 112 species without federal FMPs caught in the River Herring and Shad area). Revenue values have been deflated to 2019 dollars. All numbers have been rounded to the nearest thousand. Specific figures on these FMPs within each area follow. Figure 1.1 Landings from Most Impacted FMPs, RHS 1 NHMA Merge

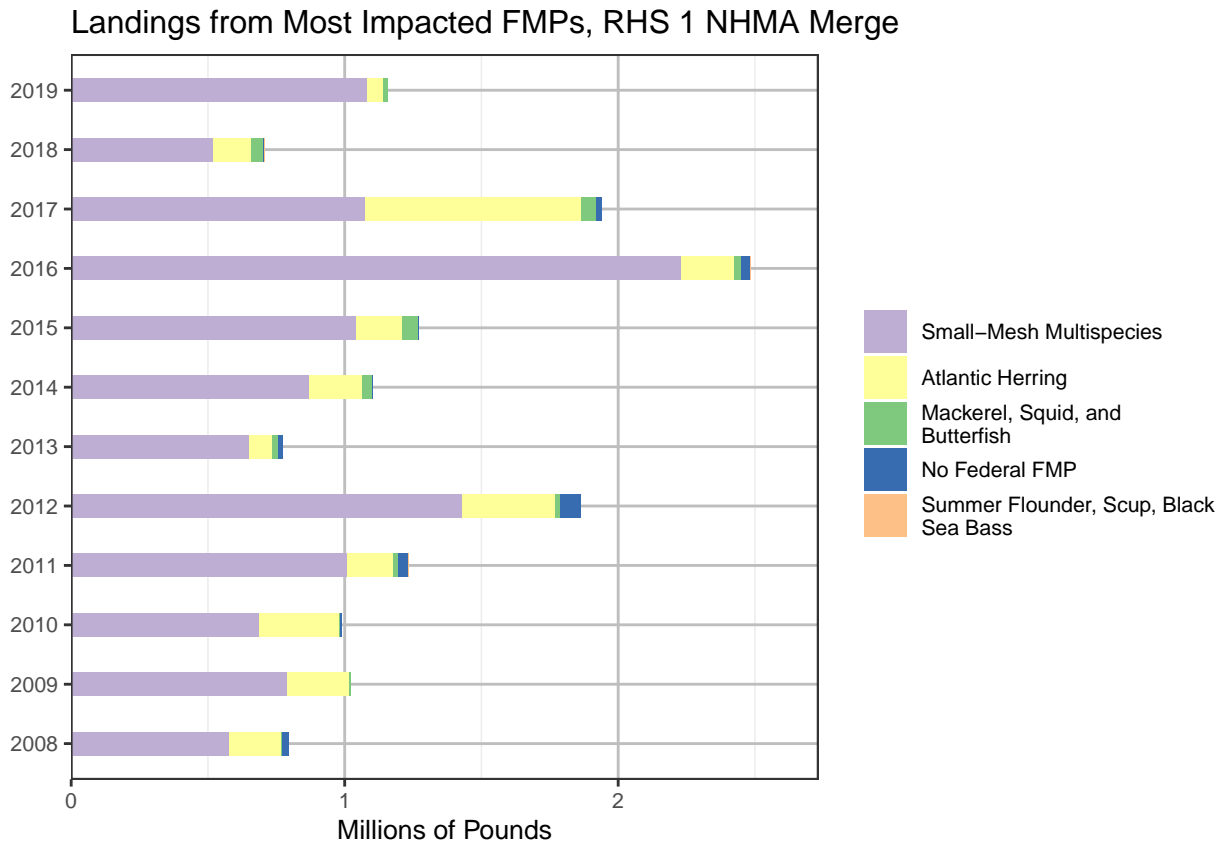


Table 1: Twelve Year Total Landings (Pounds), Most Impacted FMPs, RHS 1 NHMA Merge

FMP	Twelve Year Landings
Small-Mesh Multispecies	11,940,000
Atlantic Herring	2,875,000
Mackerel, Squid, and Butterfish	300,000
No Federal FMP	221,000
Summer Flounder, Scup, Black Sea Bass	<500
<b>Total</b>	<b>15,335,000</b>

Figure 1.2 Revenue from Most Impacted FMPs, RHS 1 NHMA Merge

Revenue from Most Impacted FMPs, RHS 1 NHMA Merge

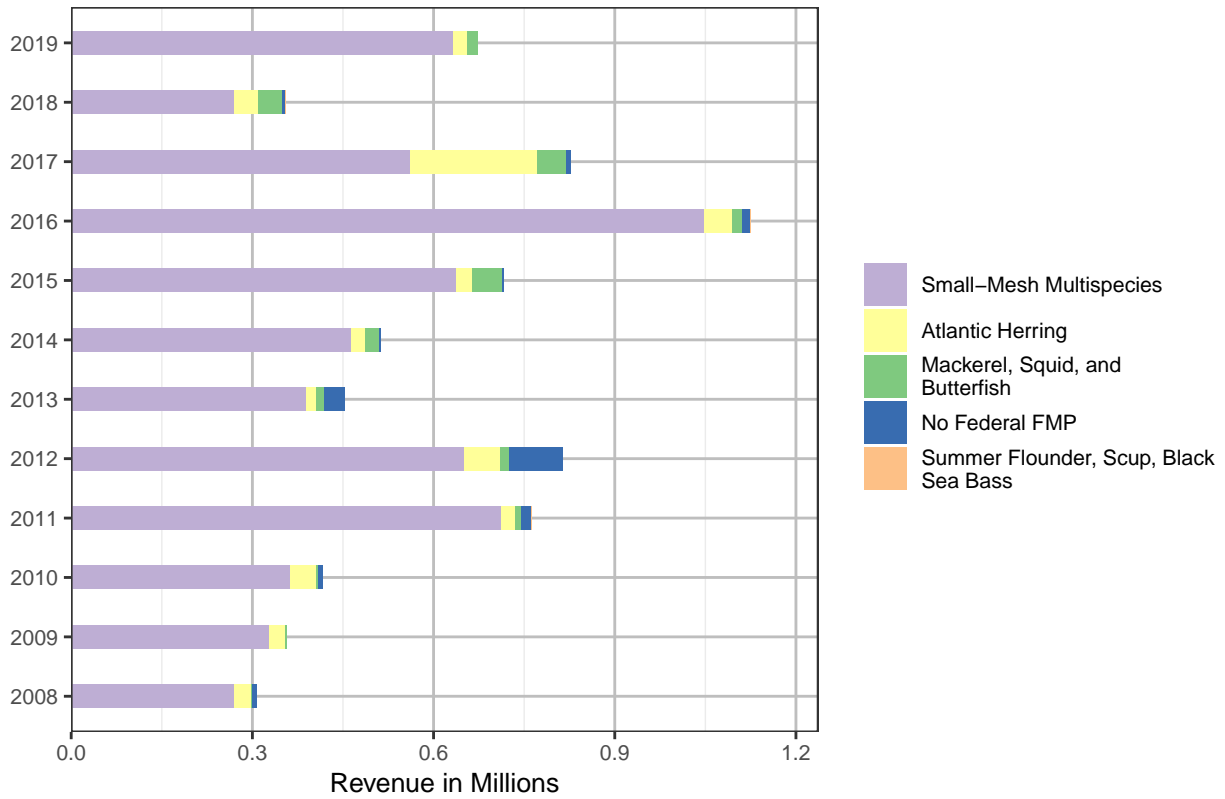


Table 2: Twelve Year Total Revenue for Most Impacted FMPs, RHS 1 NHMA Merge

FMP	Twelve Year Revenue
Small-Mesh Multispecies	\$6,314,000
Atlantic Herring	\$578,000
Mackerel, Squid, and Butterfish	\$241,000
No Federal FMP	\$185,000
Summer Flounder, Scup, Black Sea Bass	<\$500
<b>Total</b>	<b>\$7,318,000</b>

Figure 1.3 Landings from Most Impacted FMPs, RHS 2 Cape Merge

### Landings from Most Impacted FMPs, RHS 2 Cape Merge

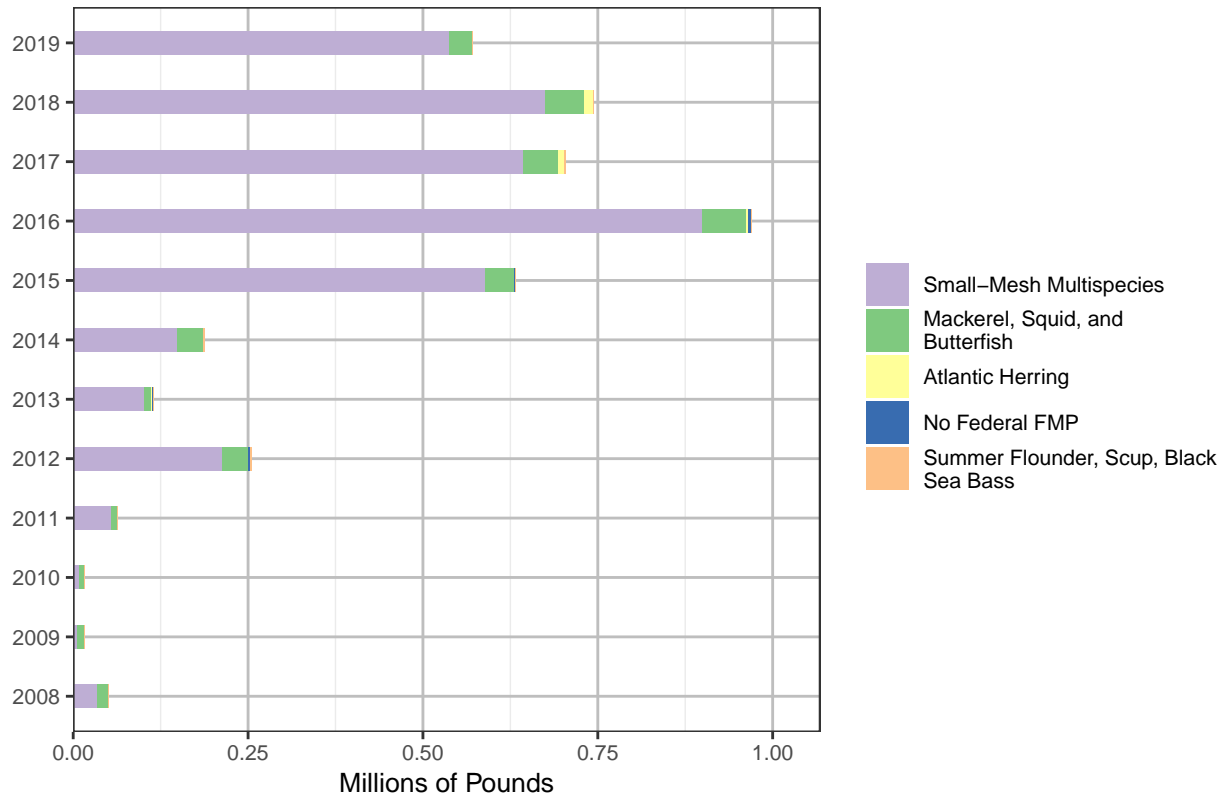


Table 3: Twelve Year Total Landings (Pounds), Most Impacted FMPs, RHS 2 Cape Merge

FMP	Twelve Year Landings
Small-Mesh Multispecies	3,899,000
Mackerel, Squid, and Butterfish	378,000
Atlantic Herring	31,000
Summer Flounder, Scup, Black Sea Bass	10,000
No Federal FMP	9,000
<b>Total</b>	<b>4,328,000</b>

Figure 1.4 Revenue from Most Impacted FMPs, RHS 2 Cape Merge

### Revenue from Most Impacted FMPs, RHS 2 Cape Merge

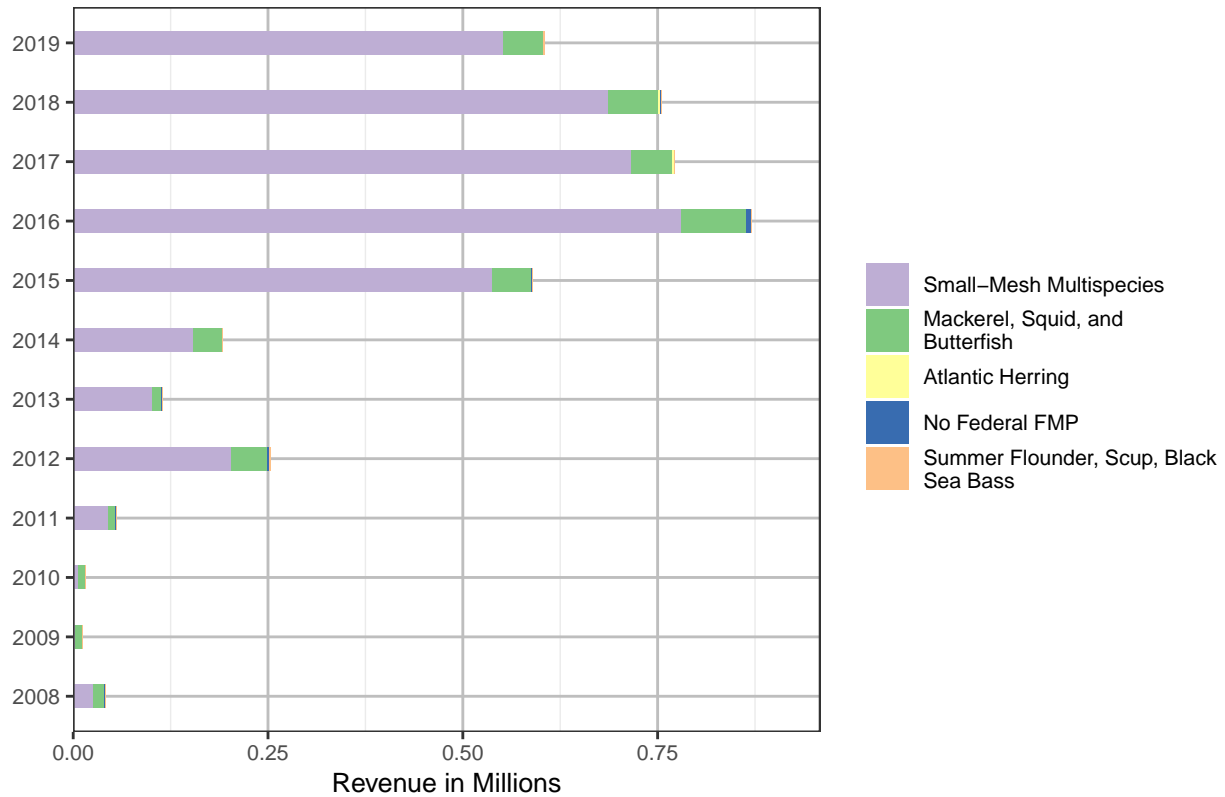


Table 4: Twelve Year Total Revenue for Most Impacted FMPs, RHS 2 Cape Merge

FMP	Twelve Year Revenue
Small-Mesh Multispecies	\$3,802,000
Mackerel, Squid, and Butterfish	\$447,000
No Federal FMP	\$12,000
Summer Flounder, Scup, Black Sea Bass	\$10,000
Atlantic Herring	\$9,000
<b>Total</b>	<b>\$4,280,000</b>

Figure 1.5 Landings from Most Impacted FMPs, RHS 3 RI Merge



Landings from Most Impacted FMPs, RHS 3 RI Merge

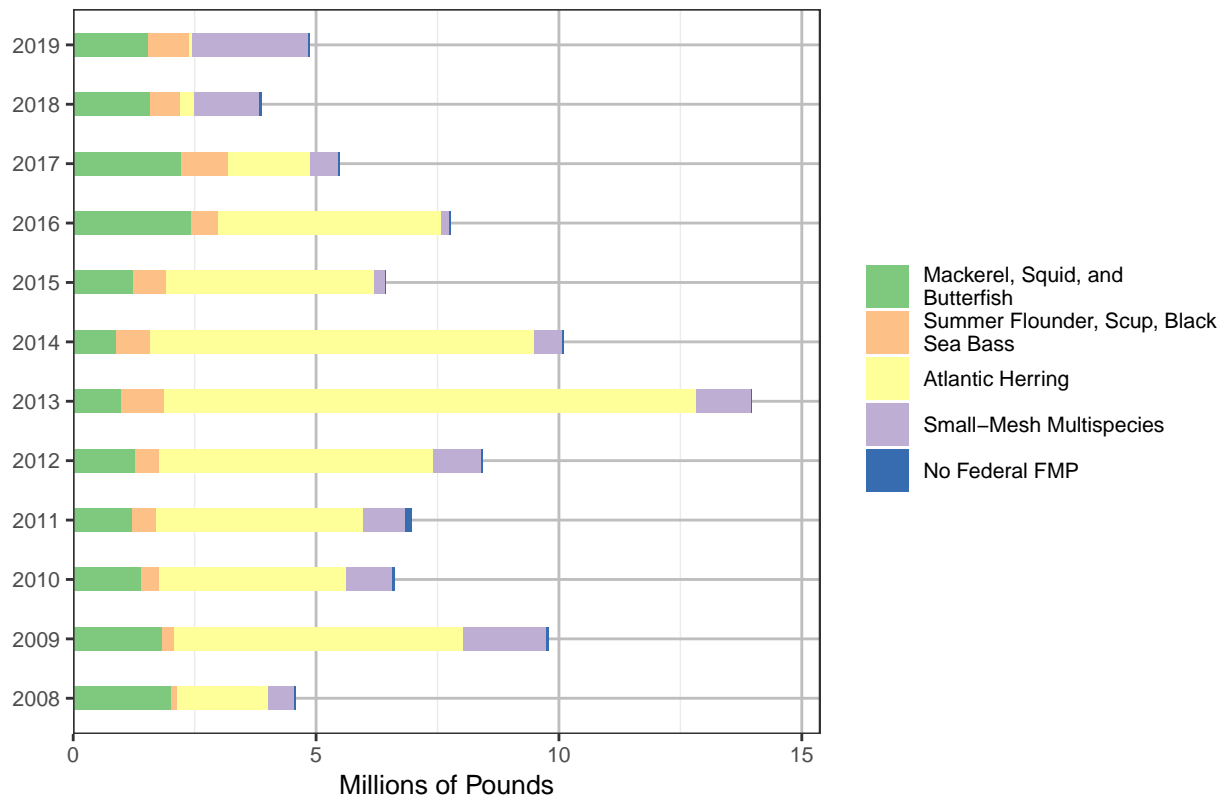


Table 5: Twelve Year Total Landings (Pounds), Most Impacted FMPs, RHS 3 RI Merge

FMP	Twelve Year Landings
Atlantic Herring	51,471,000
Mackerel, Squid, and Butterfish	18,633,000
Small-Mesh Multispecies	11,336,000
Summer Flounder, Scup, Black Sea Bass	6,843,000
No Federal FMP	653,000
<b>Total</b>	<b>88,934,000</b>

Figure 1.6 Revenue from Most Impacted FMPs, RHS 3 RI Merge

Revenue from Most Impacted FMPs, RHS 3 RI Merge

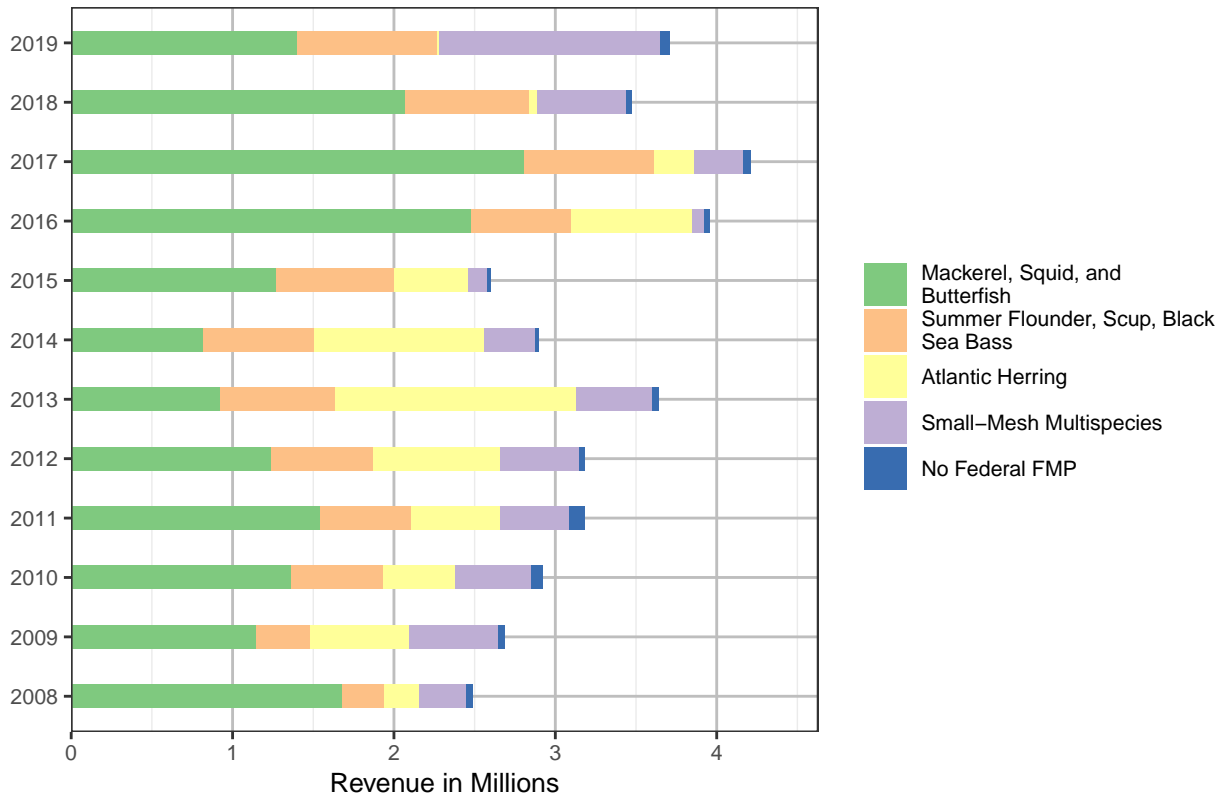


Table 6: Twelve Year Total Revenue for Most Impacted FMPs, RHS 3 RI Merge

FMP	Twelve Year Revenue
Mackerel, Squid, and Butterfish	\$18,734,000
Summer Flounder, Scup, Black Sea Bass	\$7,526,000
Atlantic Herring	\$6,721,000
Small-Mesh Multispecies	\$5,391,000
No Federal FMP	\$574,000
<b>Total</b>	<b>\$38,947,000</b>

Figure 1.7 Landings from Most Impacted FMPs, RHS 4 NJ Merge

### Landings from Most Impacted FMPs, RHS 4 NJ Merge

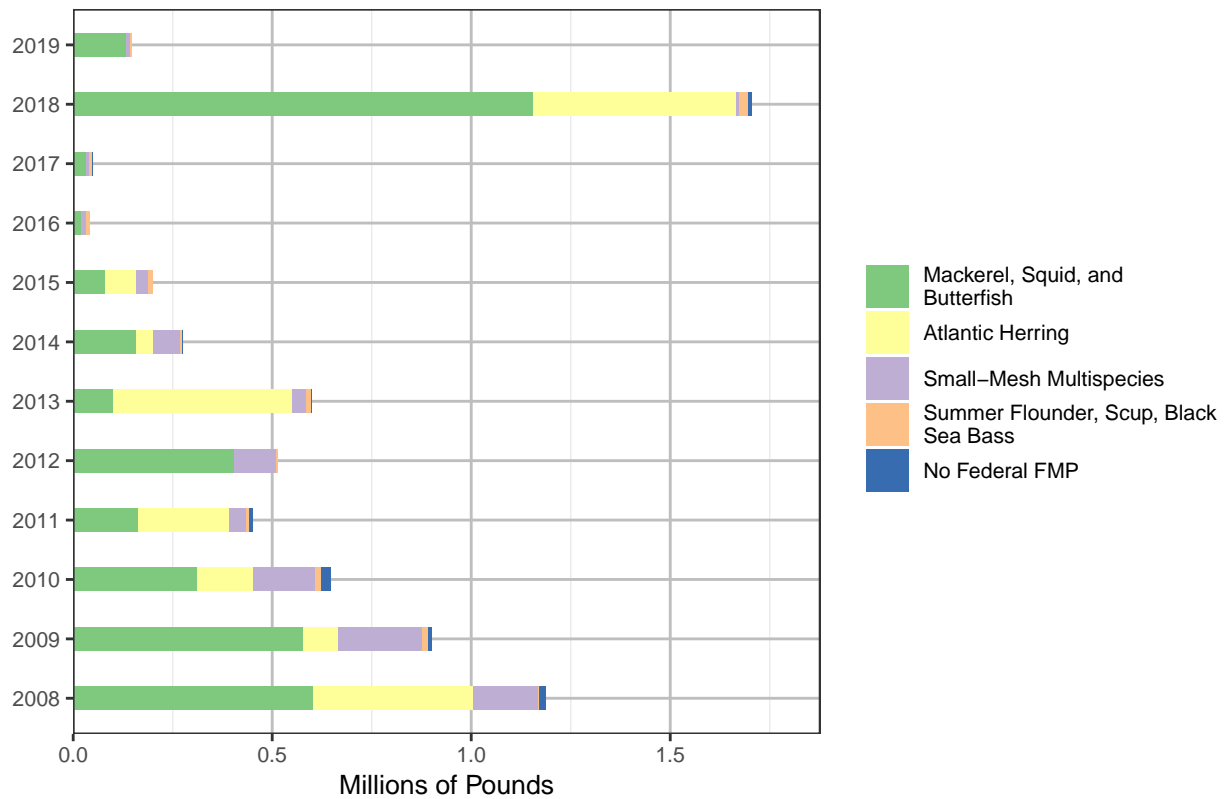


Table 7: Twelve Year Total Landings (Pounds), Most Impacted FMPs, RHS 4 NJ Merge

FMP	Twelve Year Landings
Mackerel, Squid, and Butterfish	3,731,000
Atlantic Herring	1,952,000
Small-Mesh Multispecies	850,000
Summer Flounder, Scup, Black Sea Bass	104,000
No Federal FMP	79,000
<b>Total</b>	<b>6,716,000</b>

Figure 1.8 Revenue from Most Impacted FMPs, RHS 4 NJ Merge

### Revenue from Most Impacted FMPs, RHS 4 NJ Merge

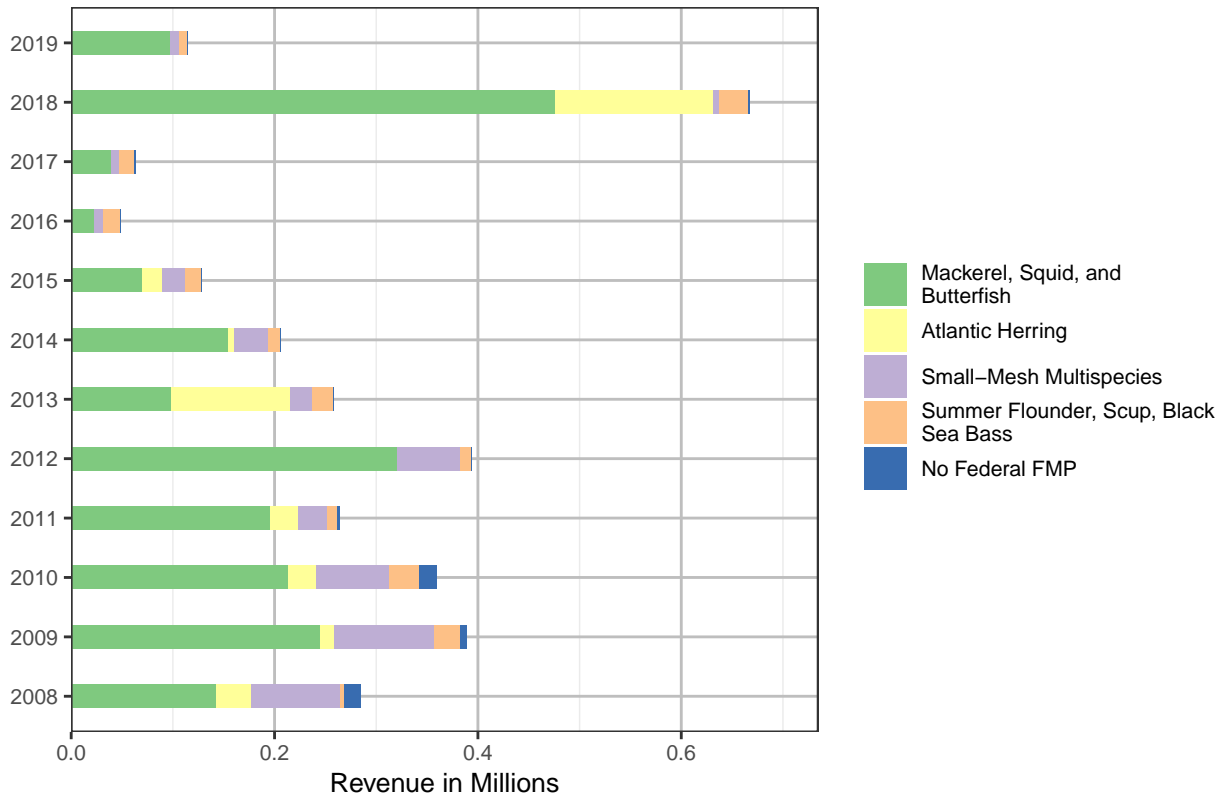


Table 8: Twelve Year Total Revenue for Most Impacted FMPs, RHS 4 NJ Merge

FMP	Twelve Year Revenue
Mackerel, Squid, and Butterfish	\$2,072,000
Small-Mesh Multispecies	\$457,000
Atlantic Herring	\$405,000
Summer Flounder, Scup, Black Sea Bass	\$190,000
No Federal FMP	\$57,000
<b>Total</b>	<b>\$3,180,000</b>

### Summary

Table 9: Most Impacted FMPs Twelve Year Revenue and Landings

Area	Twelve Year Revenue	Twelve Year Landings (Pounds)
RHS 1 NHMA Merge	\$ 7,318,000	15,335,000
RHS 2 Cape Merge	\$ 4,280,000	4,328,000
RHS 3 RI Merge	\$38,947,000	88,934,000
RHS 4 NJ Merge	\$ 3,180,000	6,716,000
<b>Total</b>	<b>\$53,725,000</b>	<b>115,313,000</b>

## Other Impacted FMPs

We analyzed other impacted FMPs separately in order to better visualize the estimated landings and revenues. The other impacted FMPs are: All Others, American Lobster, Bluefish, Golden And Blueline Tilefish, Highly Migratory Species, Jonah Crab, Monkfish, Northeast Multispecies, Sea Scallop, Skates and Spiny Dogfish . The category “All Others” refers to FMPs with less than three permits or dealers impacted to protect data confidentiality. Revenue values have been deflated to 2019 dollars. All numbers have been rounded to the nearest thousand. Figure 2.1 Landings from Other Impacted FMPs, RHS 1 NHMA Merge

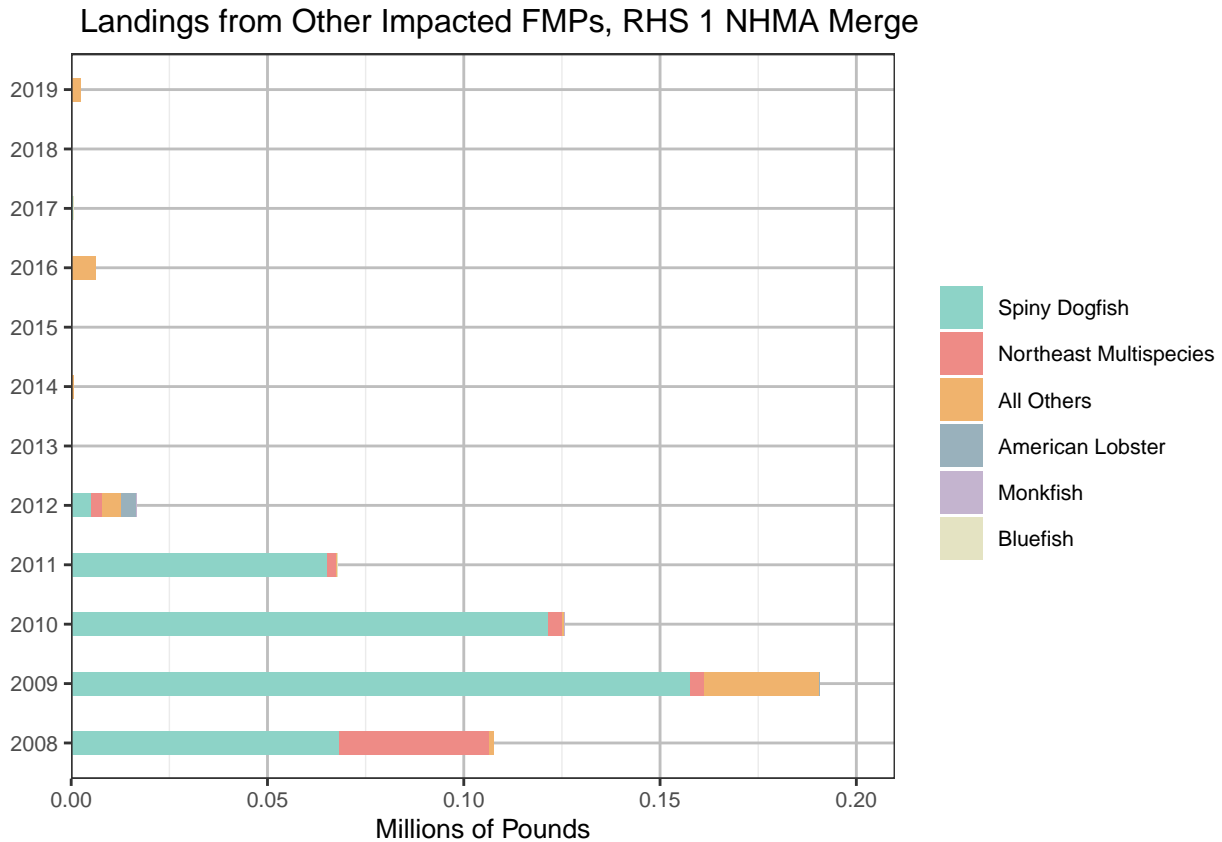


Table 10: Twelve Year Total Landings (Pounds), Other Impacted FMP, RHS 1 NHMA Merge

FMP	Twelve Year Landings
Spiny Dogfish	417,000
Northeast Multispecies	51,000
All Others	46,000
American Lobster	4,000
Monkfish	<500
Bluefish	<500
<b>Total</b>	<b>519,000</b>

Figure 2.2 Revenue from Other Impacted FMPs, RHS 1 NHMA Merge

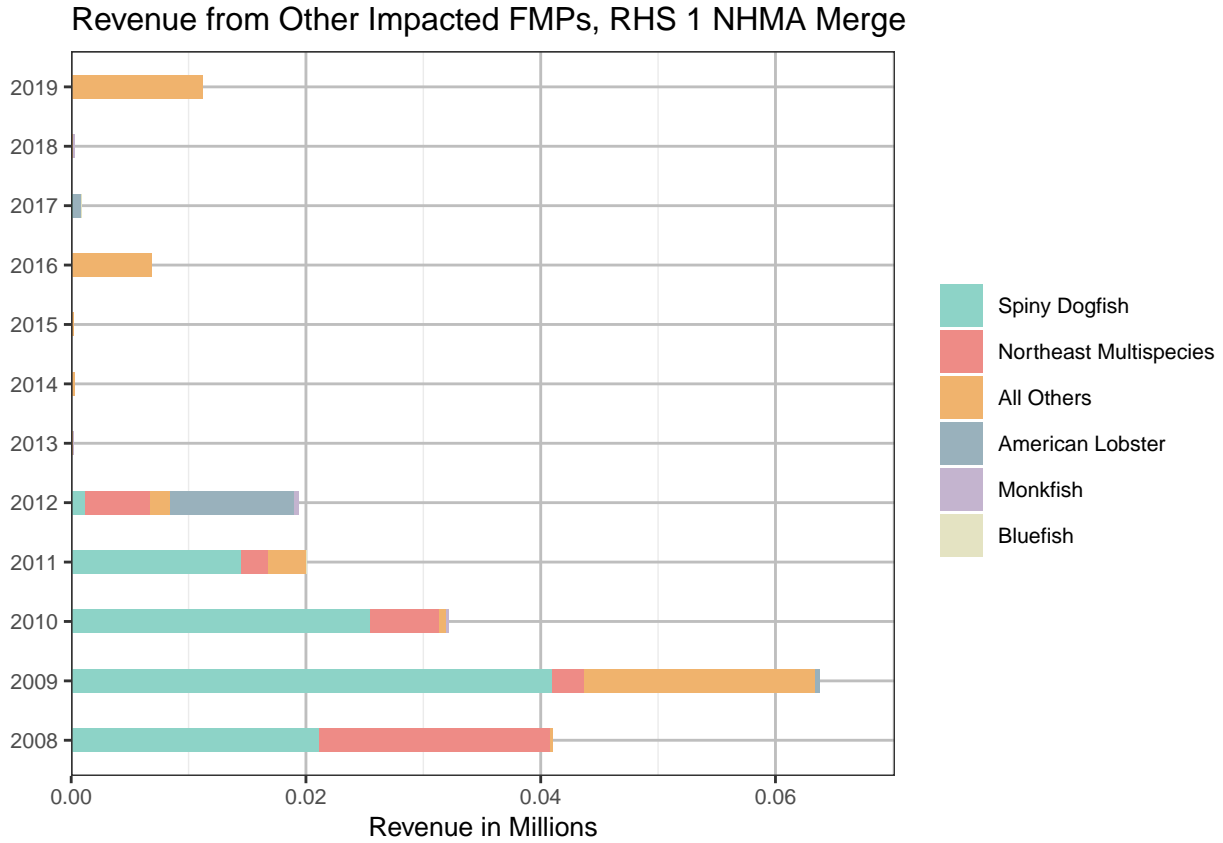


Table 11: Twelve Year Total Revenue for Other Impacted FMPs, RHS 1 NHMA Merge

FMP	Twelve Year Revenue
Spiny Dogfish	\$103,000
All Others	\$45,000
Northeast Multispecies	\$36,000
American Lobster	\$12,000
Monkfish	\$1,000
Bluefish	<\$500
<b>Total</b>	<b>\$196,000</b>

Figure 2.3 Landings from Other Impacted FMPs, RHS 2 Cape Merge

Landings from Other Impacted FMPs, RHS 2 Cape Merge

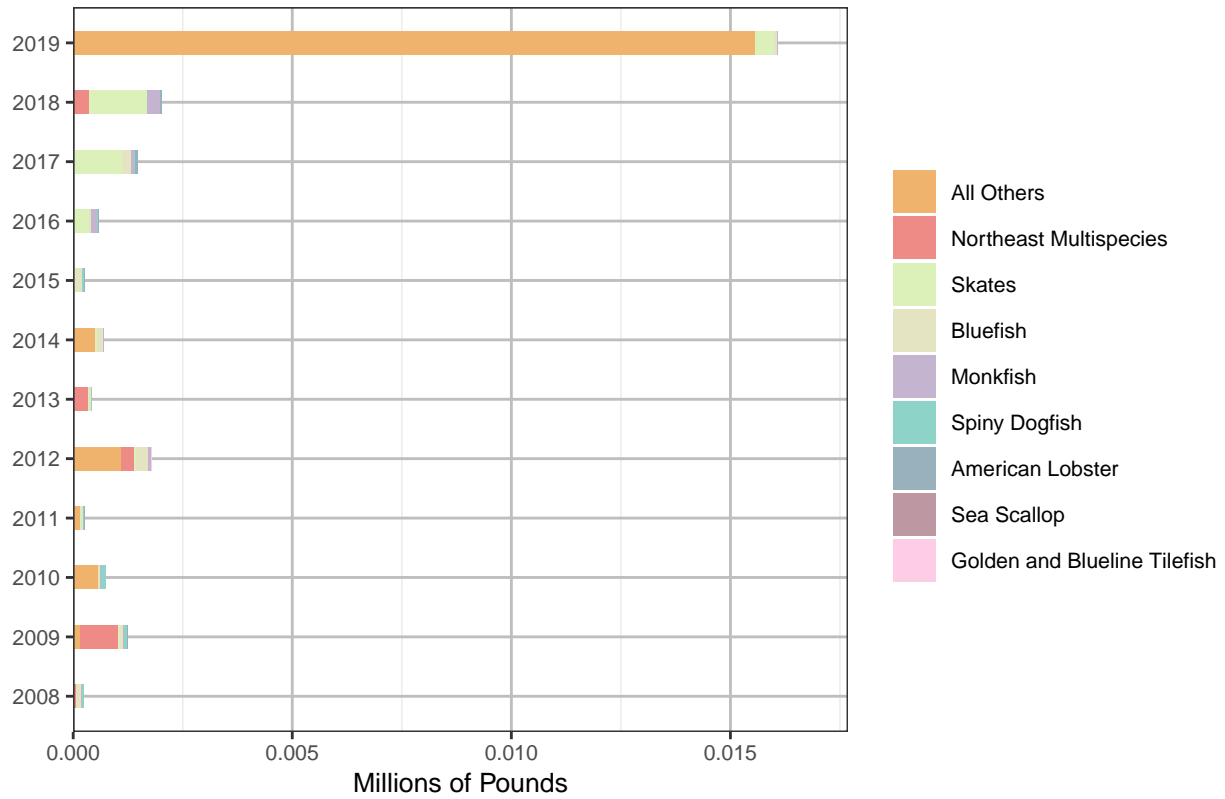


Table 12: Twelve Year Total Landings (Pounds), Other Impacted FMP, RHS 2 Cape Merge

FMP	Twelve Year Landings
All Others	18,000
Skates	3,000
Northeast Multispecies	2,000
Bluefish	1,000
Monkfish	1,000
Spiny Dogfish	<500
American Lobster	<500
Golden and Blueline Tilefish	<500
Sea Scallop	<500
<b>Total</b>	<b>26,000</b>

Figure 2.4 Revenue from Other Impacted FMPs, RHS 2 Cape Merge

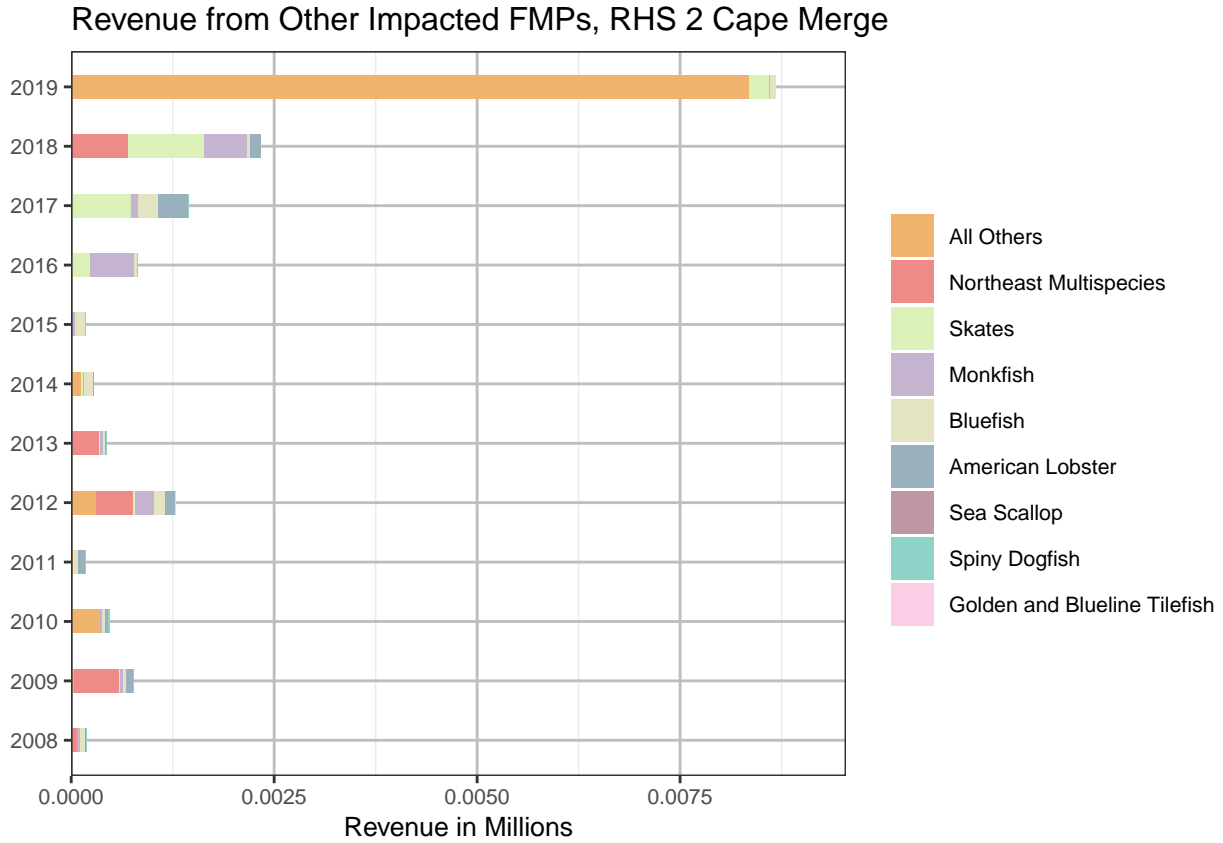


Table 13: Twelve Year Total Revenue for Other Impacted FMPs, RHS 2 Cape Merge

FMP	Twelve Year Revenue
All Others	\$9,000
Skates	\$2,000
Northeast Multispecies	\$2,000
Monkfish	\$2,000
Bluefish	\$1,000
American Lobster	\$1,000
Spiny Dogfish	<\$500
Sea Scallop	<\$500
Golden and Blueline Tilefish	<\$500
<b>Total</b>	<b>\$17,000</b>

Figure 2.5 Landings from Other Impacted FMPs, RHS 3 RI Merge



### Landings from Other Impacted FMPs, RHS 3 RI Merge

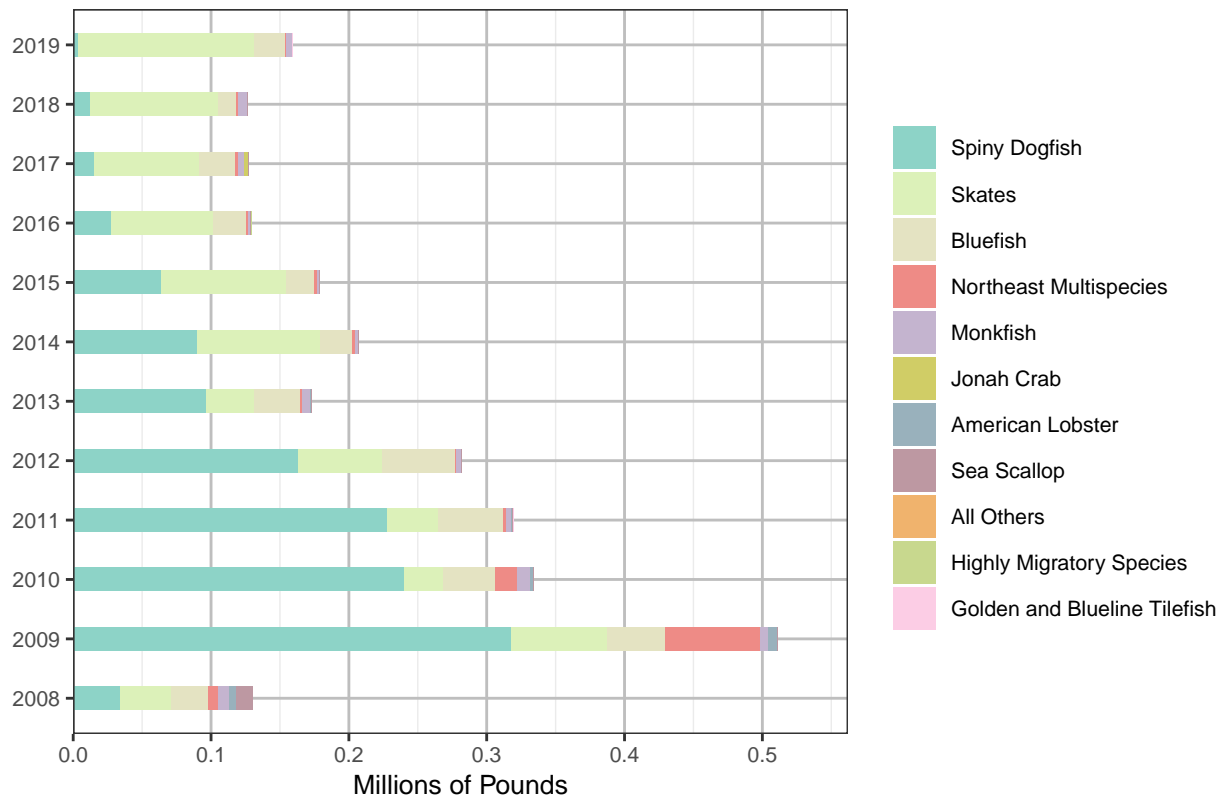


Table 14: Twelve Year Total Landings (Pounds), Other Impacted FMP, RHS 3 RI Merge

FMP	Twelve Year Landings
Spiny Dogfish	1,287,000
Skates	821,000
Bluefish	373,000
Northeast Multispecies	102,000
Monkfish	57,000
American Lobster	18,000
Sea Scallop	14,000
Jonah Crab	4,000
All Others	1,000
Golden and Blueline Tilefish	<500
Highly Migratory Species	<500
<b>Total</b>	<b>2,677,000</b>

Figure 2.6 Revenue from Other Impacted FMPs, RHS 3 RI Merge

### Revenue from Other Impacted FMPs, RHS 3 RI Merge

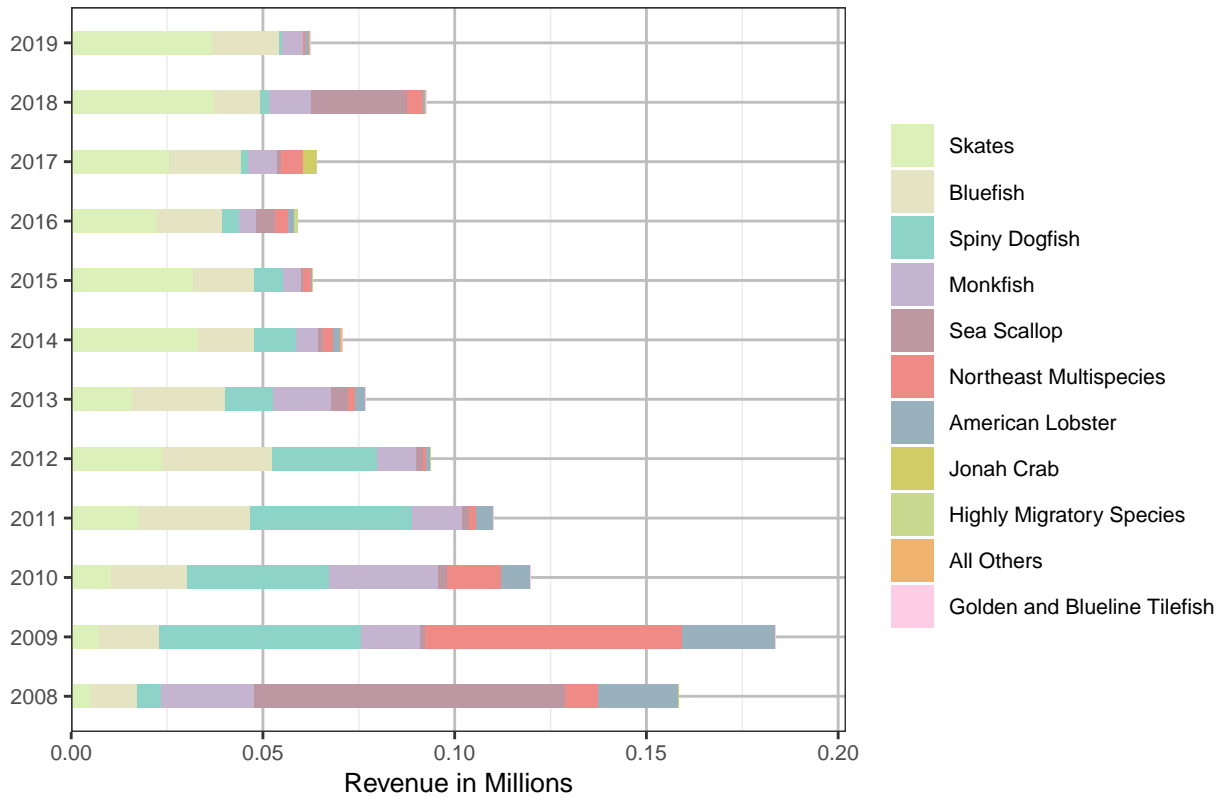


Table 15: Twelve Year Total Revenue for Other Impacted FMPs, RHS 3 RI Merge

FMP	Twelve Year Revenue
Skates	\$265,000
Bluefish	\$228,000
Spiny Dogfish	\$204,000
Monkfish	\$147,000
Sea Scallop	\$124,000
Northeast Multispecies	\$112,000
American Lobster	\$67,000
Jonah Crab	\$3,000
All Others	\$2,000
Highly Migratory Species	\$1,000
Golden and Blueline Tilefish	\$1,000
<b>Total</b>	<b>\$1,155,000</b>

Figure 2.7 Landings from Other Impacted FMPs, RHS 4 NJ Merge

### Landings from Other Impacted FMPs, RHS 4 NJ Merge

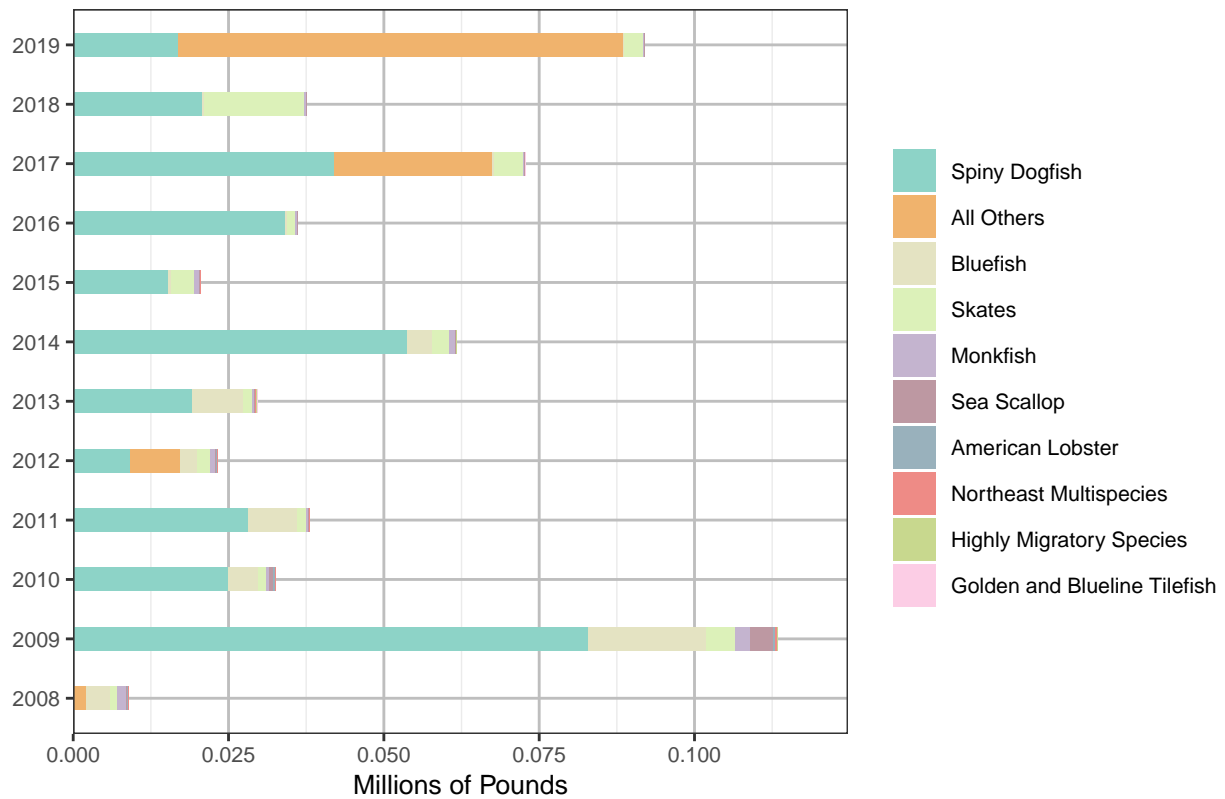


Table 16: Twelve Year Total Landings (Pounds), Other Impacted FMP, RHS 4 NJ Merge

FMP	Twelve Year Landings
Spiny Dogfish	346,000
All Others	108,000
Bluefish	53,000
Skates	43,000
Monkfish	10,000
Sea Scallop	4,000
American Lobster	2,000
Northeast Multispecies	1,000
Golden and Blueline Tilefish	<500
Highly Migratory Species	<500
<b>Total</b>	<b>566,000</b>

Figure 2.8 Revenue from Other Impacted FMPs, RHS 4 NJ Merge

### Revenue from Other Impacted FMPs, RHS 4 NJ Merge

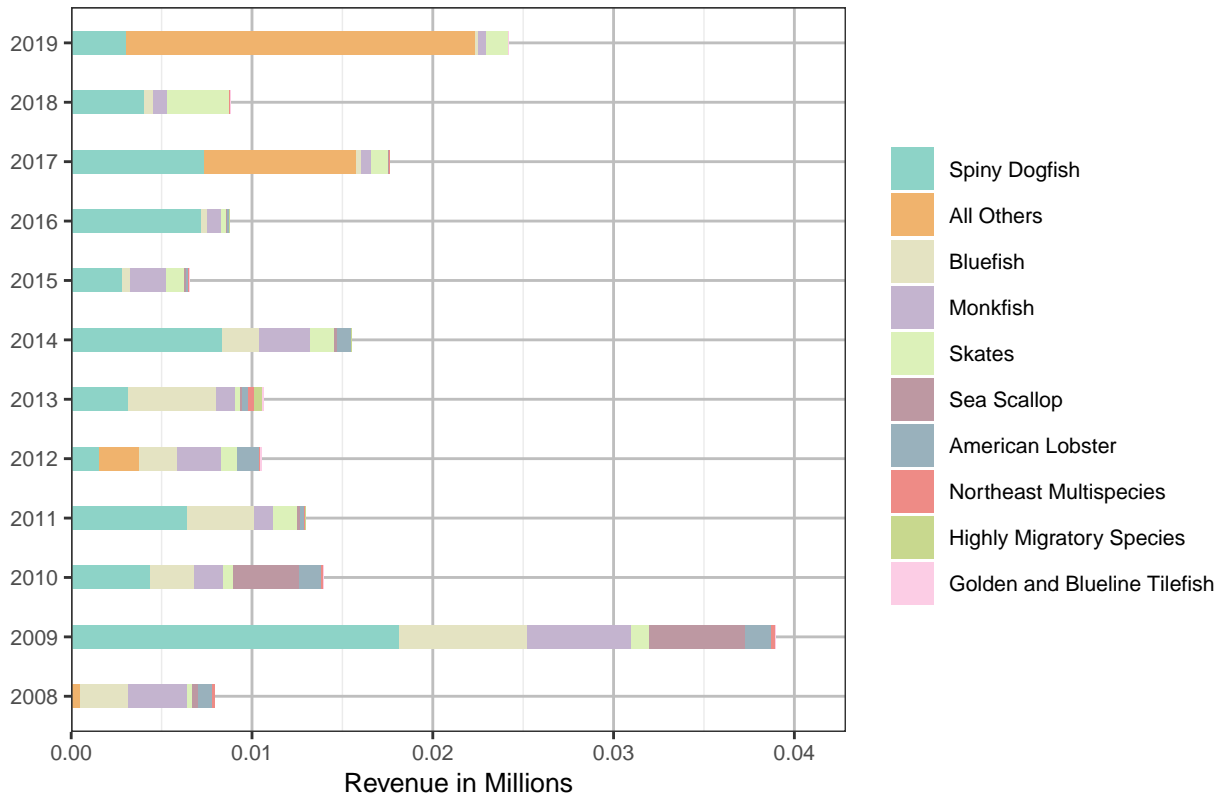


Table 17: Twelve Year Total Revenue for Other Impacted FMPs, RHS 4 NJ Merge

FMP	Twelve Year Revenue
Spiny Dogfish	\$66,000
All Others	\$31,000
Bluefish	\$27,000
Monkfish	\$22,000
Skates	\$12,000
Sea Scallop	\$10,000
American Lobster	\$7,000
Northeast Multispecies	\$1,000
Highly Migratory Species	\$1,000
Golden and Blueline Tilefish	<\$500
<b>Total</b>	<b>\$177,000</b>

### Summary

Table 18: Other Impacted FMPs Twelve Year Revenue and Landings

Area	Twelve Year Revenue	Twelve Year Landings (Pounds)
RHS 1 NHMA Merge	\$ 196,000	519,000
RHS 2 Cape Merge	\$ 17,000	26,000
RHS 3 RI Merge	\$1,155,000	2,677,000

Area	Twelve Year Revenue	Twelve Year Landings (Pounds)
RHS 4 NJ Merge	\$ 177,000	566,000
<b>Total</b>	<b>\$1,545,000</b>	<b>3,788,000</b>

### Most Impacted Species

We analyzed the top 10 species due to their economic importance in the area and to isolate them from combined FMPs. The top 10 species by revenue are: Longfin Squid, Silver Hake, Atlantic Herring, Summer Flounder, Scup, Atlantic Mackerel, Butterfish, Red Hake, Black Sea Bass and Dogfish Spiny . The category “All Others” refers to species with less than three permits or dealers impacted to protect data confidentiality. Revenue values have been deflated to 2019 dollars. All numbers have been rounded to the nearest thousand.

Figure 3.1 Landings of Top Species, RHS 1 NHMA Merge

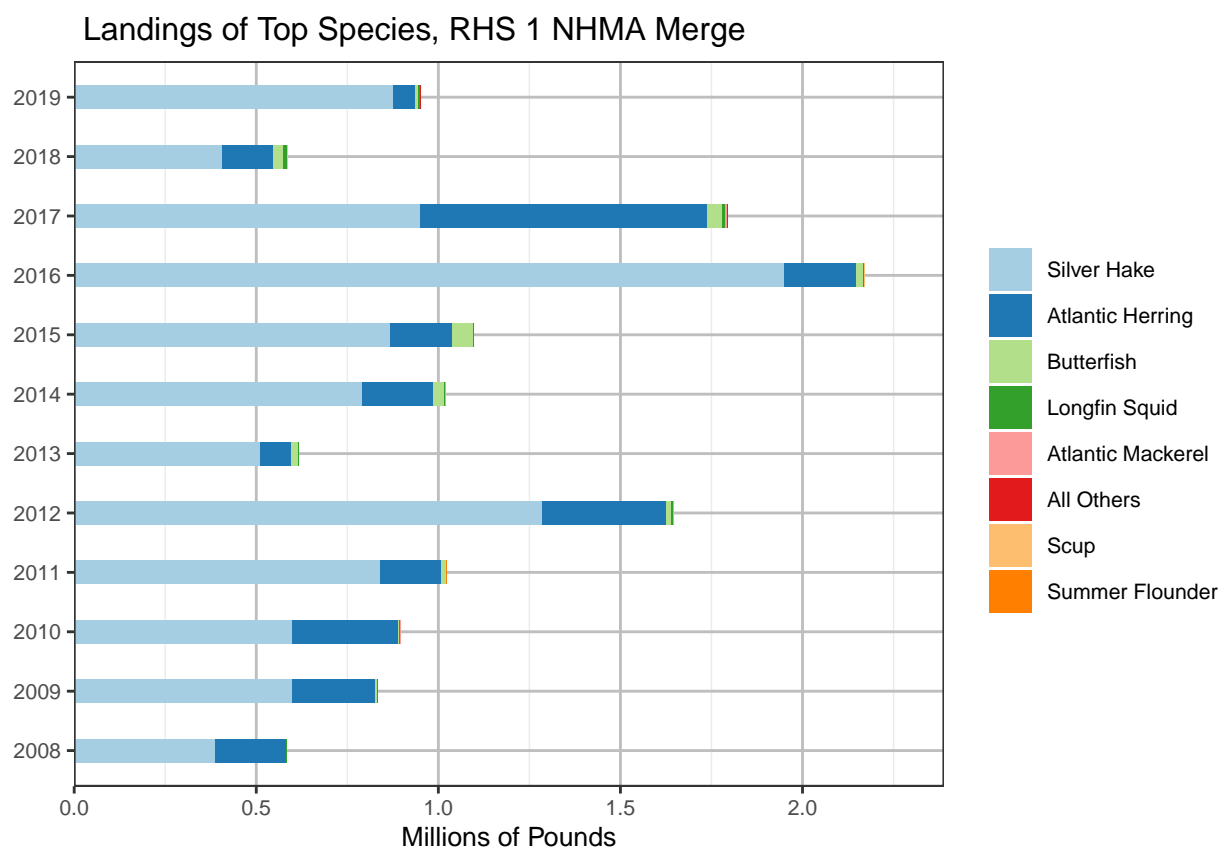


Table 19: Twelve Year Total Landings (Pounds), Most Impacted Species, RHS 1 NHMA Merge

Species	Twelve Year Landings
Silver Hake	10,046,000
Atlantic Herring	2,875,000
Butterfish	241,000
Longfin Squid	36,000
Atlantic Mackerel	14,000
All Others	3,000
Scup	<500

Species	Twelve Year Landings
Summer Flounder	<500
<b>Total</b>	<b>13,215,000</b>

Figure 3.2 Revenue from Most Impacted Species, RHS 1 NHMA Merge

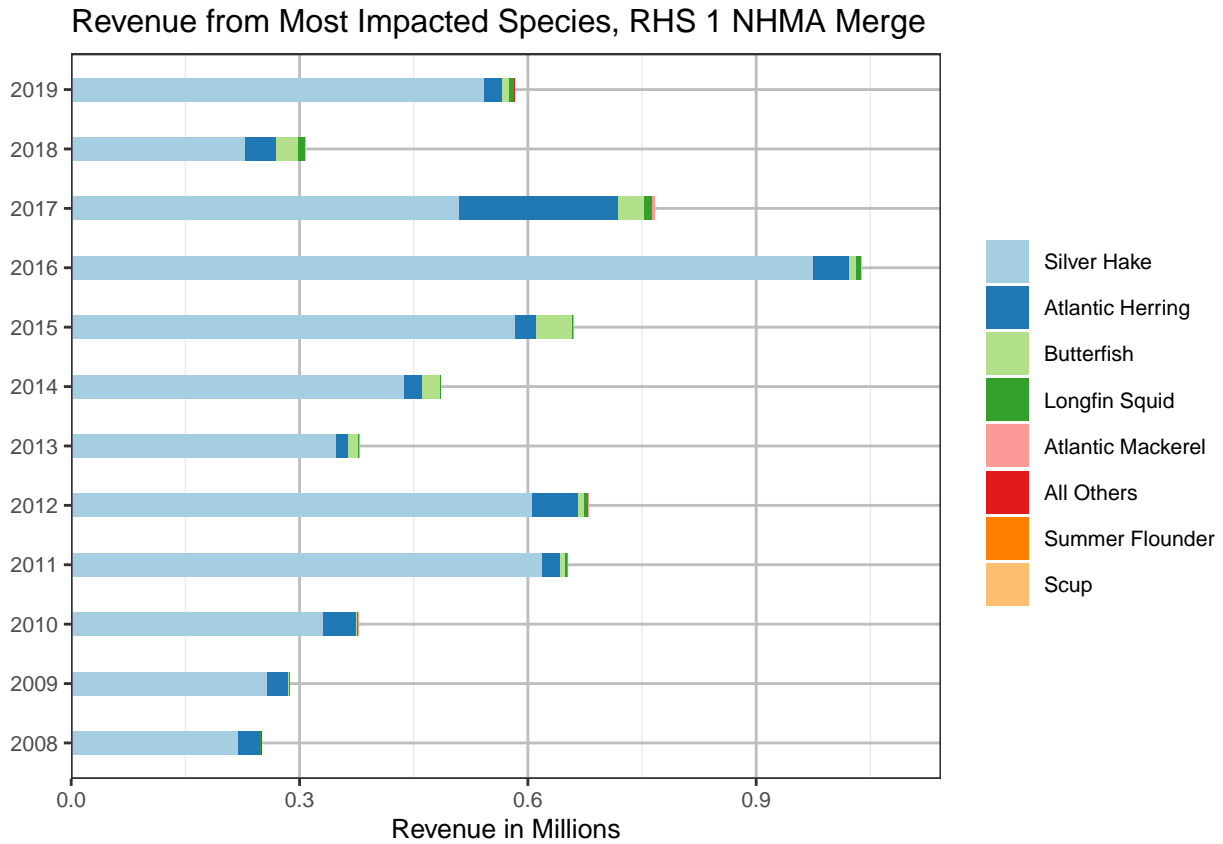


Table 20: Twelve Year Total Revenue, Most Impacted Species, RHS 1 NHMA Merge

Species	Twelve Year Revenue
Silver Hake	\$5,649,000
Atlantic Herring	\$578,000
Butterfish	\$186,000
Longfin Squid	\$43,000
Atlantic Mackerel	\$8,000
All Others	\$2,000
Scup	<\$500
Summer Flounder	<\$500
<b>Total</b>	<b>\$6,467,000</b>

Figure 3.3 Landings of Top Species, RHS 2 Cape Merge

Landings of Top Species, RHS 2 Cape Merge

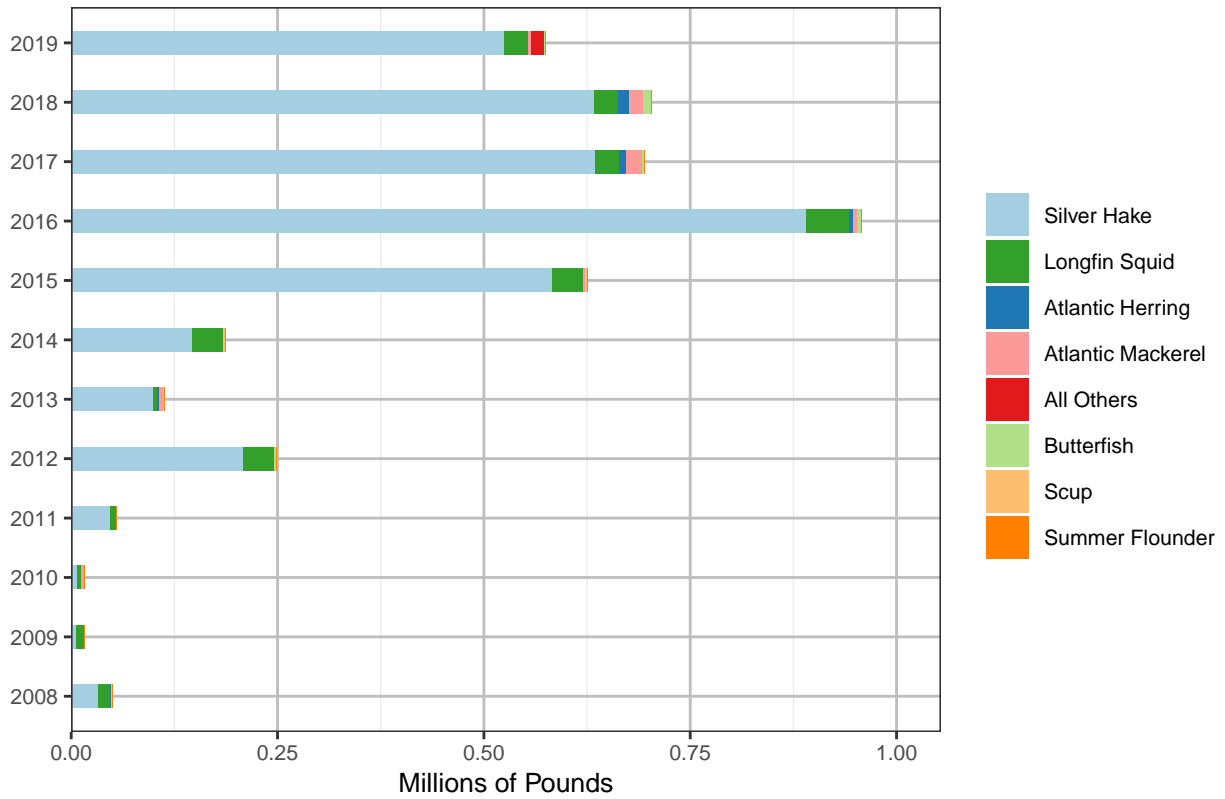


Table 21: Twelve Year Total Landings (Pounds), Most Impacted Species, RHS 2 Cape Merge

Species	Twelve Year Landings
Silver Hake	3,806,000
Longfin Squid	296,000
Atlantic Mackerel	58,000
Atlantic Herring	31,000
Butterfish	21,000
All Others	18,000
Scup	9,000
Summer Flounder	1,000
<b>Total</b>	<b>4,240,000</b>

Figure 3.4 Revenue from Most Impacted Species, RHS 2 Cape Merge

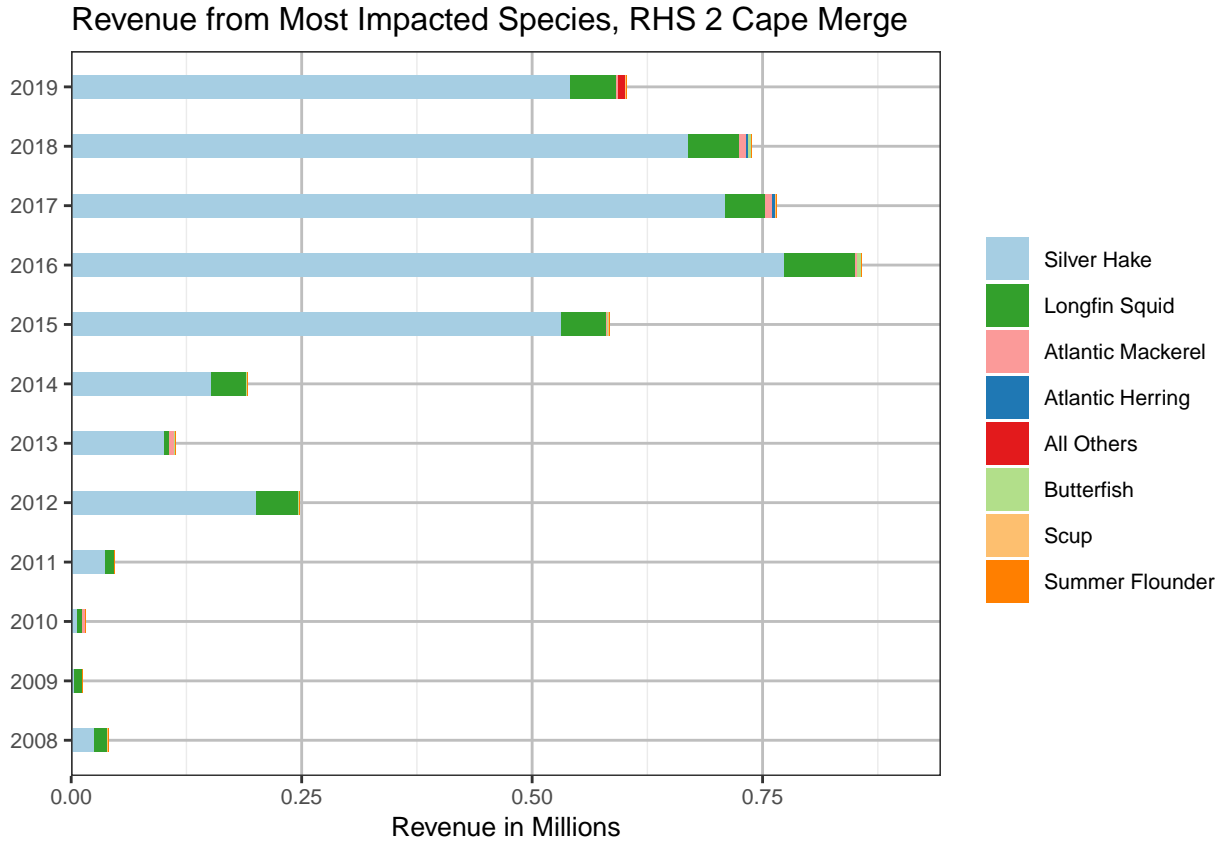


Table 22: Twelve Year Total Revenue, Most Impacted Species, RHS 2 Cape Merge

Species	Twelve Year Revenue
Silver Hake	\$3,744,000
Longfin Squid	\$402,000
Atlantic Mackerel	\$30,000
Butterfish	\$13,000
Atlantic Herring	\$9,000
All Others	\$8,000
Scup	\$4,000
Summer Flounder	\$4,000
<b>Total</b>	<b>\$4,215,000</b>

Figure 3.5 Landings of Top Species, RHS 3 RI Merge



Landings of Top Species, RHS 3 RI Merge

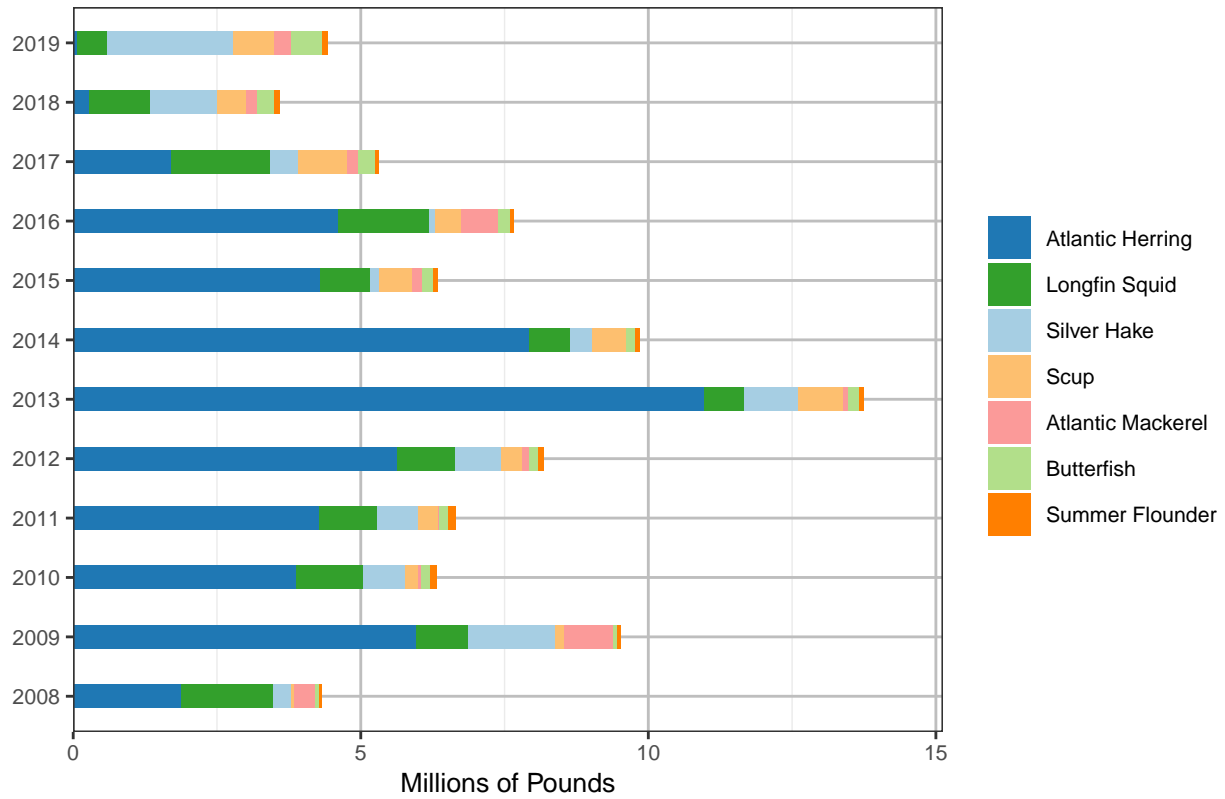


Table 23: Twelve Year Total Landings (Pounds), Most Impacted Species, RHS 3 RI Merge

Species	Twelve Year Landings
Atlantic Herring	51,471,000
Longfin Squid	12,877,000
Silver Hake	9,378,000
Scup	5,629,000
Atlantic Mackerel	3,084,000
Butterfish	2,474,000
Summer Flounder	995,000
<b>Total</b>	<b>85,907,000</b>

Figure 3.6 Revenue from Most Impacted Species, RHS 3 RI Merge

Revenue from Most Impacted Species, RHS 3 RI Merge

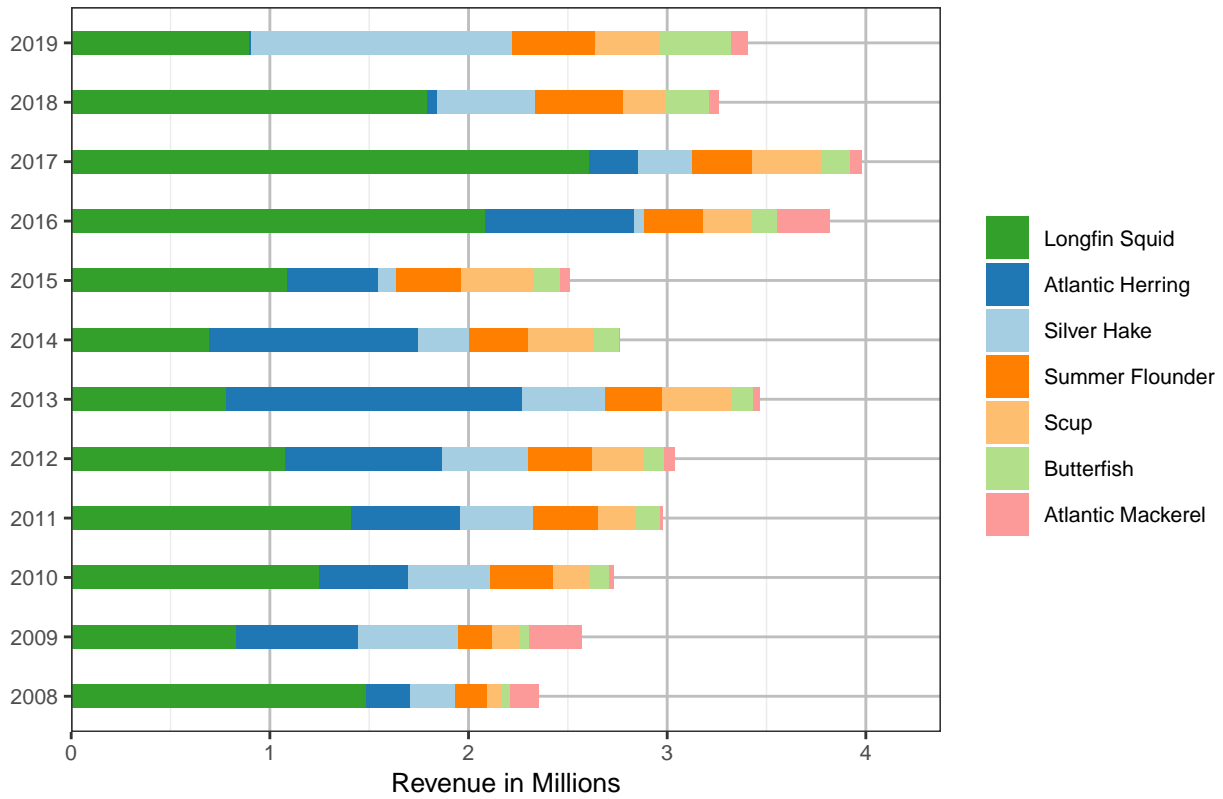


Table 24: Twelve Year Total Revenue, Most Impacted Species, RHS 3 RI Merge

Species	Twelve Year Revenue
Longfin Squid	\$15,953,000
Atlantic Herring	\$6,721,000
Silver Hake	\$4,839,000
Summer Flounder	\$3,641,000
Scup	\$3,018,000
Butterfish	\$1,648,000
Atlantic Mackerel	\$1,057,000
<b>Total</b>	<b>\$36,878,000</b>

Figure 3.7 Landings of Top Species, RHS 4 NJ Merge

Landings of Top Species, RHS 4 NJ Merge

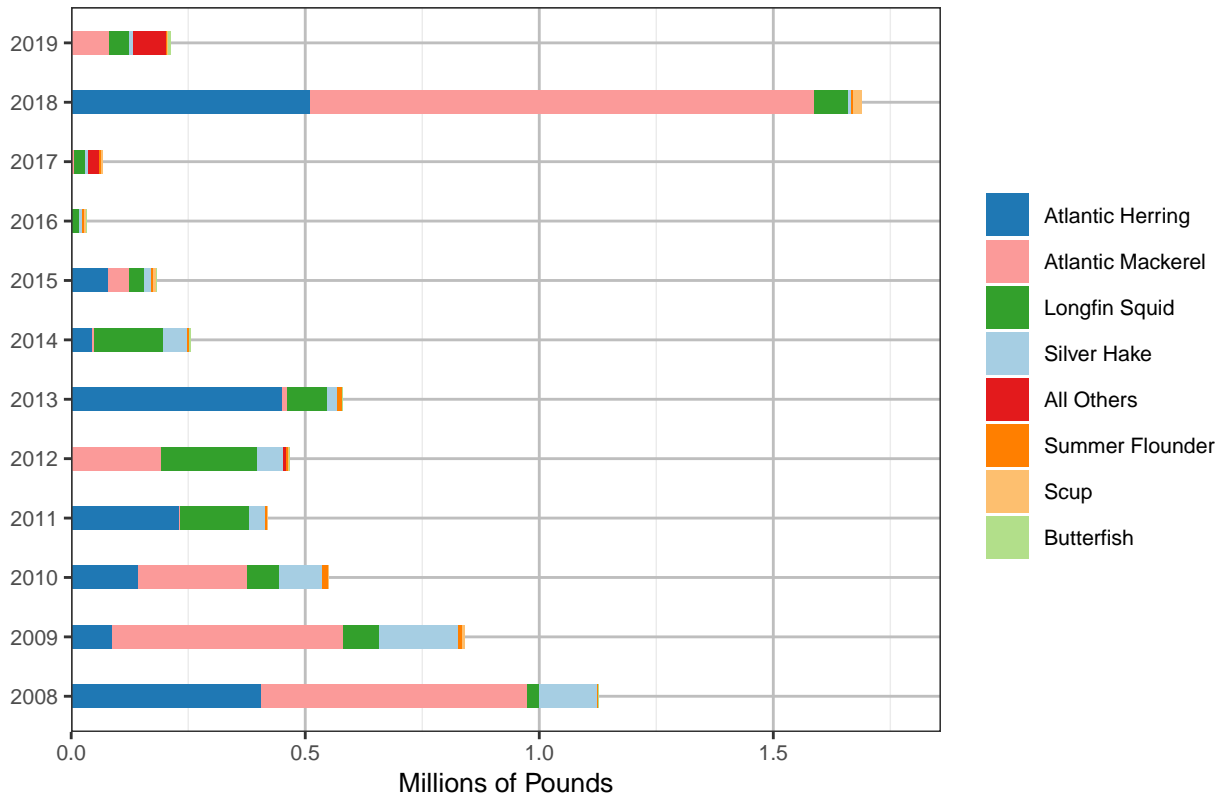


Table 25: Twelve Year Total Landings (Pounds), Most Impacted Species, RHS 4 NJ Merge

Species	Twelve Year Landings
Atlantic Mackerel	2,718,000
Atlantic Herring	1,952,000
Longfin Squid	946,000
Silver Hake	580,000
All Others	105,000
Summer Flounder	51,000
Scup	48,000
Butterfish	26,000
<b>Total</b>	<b>6,427,000</b>

Figure 3.8 Revenue from Most Impacted Species, RHS 4 NJ Merge

### Revenue from Most Impacted Species, RHS 4 NJ Merge

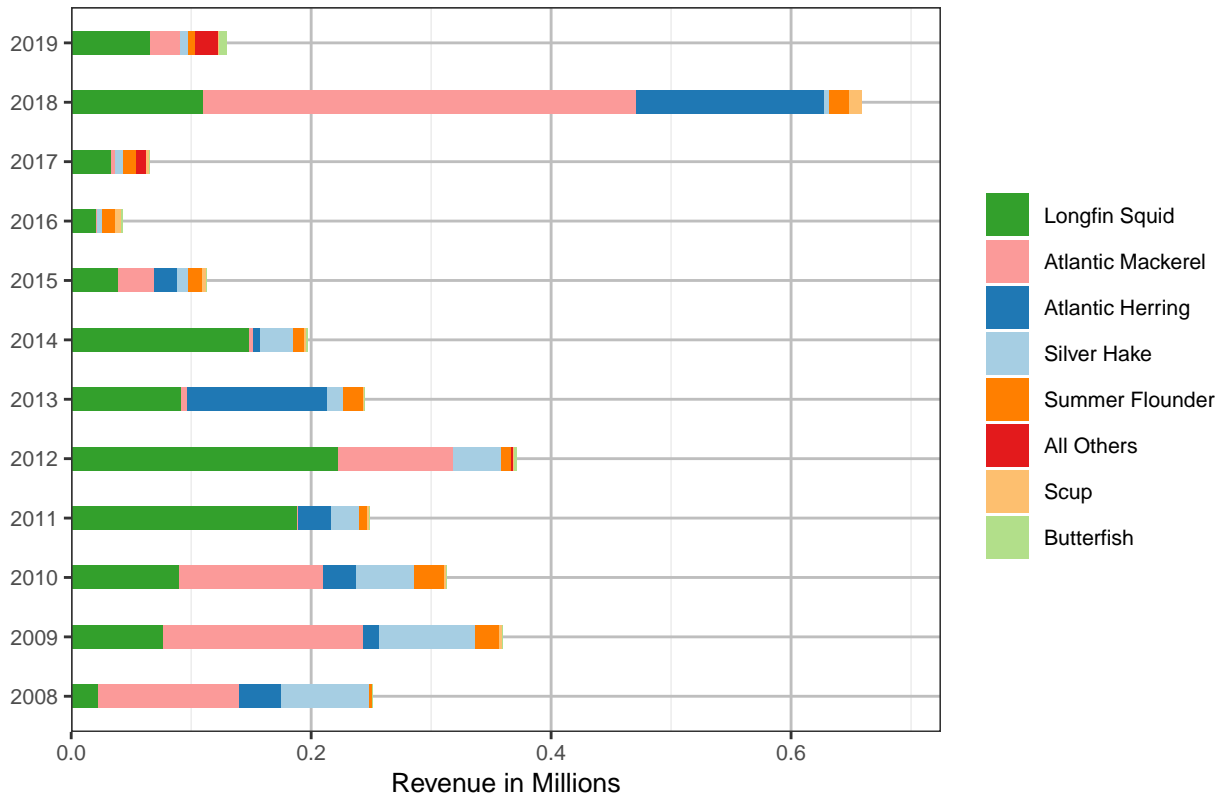


Table 26: Twelve Year Total Revenue, Most Impacted Species, RHS 4 NJ Merge

Species	Twelve Year Revenue
Longfin Squid	\$1,105,000
Atlantic Mackerel	\$930,000
Atlantic Herring	\$405,000
Silver Hake	\$338,000
Summer Flounder	\$140,000
All Others	\$30,000
Scup	\$30,000
Butterfish	\$18,000
<b>Total</b>	<b>\$2,995,000</b>

### Summary

Table 27: Most Impacted Species Twelve Year Revenue and Landings

Area	Twelve Year Revenue	Twelve Year Landings (Pounds)
RHS 1 NHMA Merge	\$ 6,467,000	13,215,000
RHS 2 Cape Merge	\$ 4,215,000	4,240,000
RHS 3 RI Merge	\$36,878,000	85,907,000
RHS 4 NJ Merge	\$ 2,995,000	6,427,000

Area	Twelve Year Revenue	Twelve Year Landings (Pounds)
<b>Total</b>	<b>\$50,555,000</b>	<b>109,789,000</b>

## Totals

The following tables display the given year total revenue and total landed pounds of all species by all gear types within each area. RHS 3 RI Merge totals the most pounds landed, 91.612 million, and the most revenue derived from within an area, \$40.102 million. All numbers have been rounded to the nearest thousand.

Table 28: Twelve Year Total Revenue and Landings (Pounds), RHS  
1 NHMA Merge

Year	Revenue	Landings
2008	\$347,000	901,000
2009	\$421,000	1,211,000
2010	\$448,000	1,115,000
2011	\$783,000	1,301,000
2012	\$833,000	1,879,000
2013	\$454,000	775,000
2014	\$514,000	1,103,000
2015	\$716,000	1,271,000
2016	\$1,131,000	2,489,000
2017	\$829,000	1,941,000
2018	\$355,000	707,000
2019	\$684,000	1,161,000
<b>Total</b>	<b>\$7,515,000</b>	<b>15,854,000</b>

Table 29: Twelve Year Total Revenue and Landings (Pounds), RHS  
2 Cape Merge

Year	Revenue	Landings
2008	\$41,000	51,000
2009	\$13,000	17,000
2010	\$17,000	17,000
2011	\$55,000	64,000
2012	\$255,000	256,000
2013	\$115,000	115,000
2014	\$193,000	189,000
2015	\$590,000	633,000
2016	\$872,000	971,000
2017	\$774,000	705,000
2018	\$758,000	746,000
2019	\$614,000	588,000
<b>Total</b>	<b>\$4,297,000</b>	<b>4,354,000</b>

Table 30: Twelve Year Total Revenue and Landings (Pounds), RHS  
3 RI Merge

Year	Revenue	Landings
2008	\$2,649,000	4,710,000
2009	\$2,869,000	10,311,000
2010	\$3,040,000	6,968,000
2011	\$3,290,000	7,292,000
2012	\$3,278,000	8,709,000
2013	\$3,717,000	14,153,000
2014	\$2,970,000	10,294,000
2015	\$2,661,000	6,611,000
2016	\$4,017,000	7,912,000
2017	\$4,272,000	5,609,000
2018	\$3,568,000	4,010,000
2019	\$3,772,000	5,032,000
<b>Total</b>	<b>\$40,102,000</b>	<b>91,612,000</b>

Table 31: Twelve Year Total Revenue and Landings (Pounds), RHS  
4 NJ Merge

Year	Revenue	Landings
2008	\$293,000	1,195,000
2009	\$428,000	1,014,000
2010	\$373,000	679,000
2011	\$277,000	489,000
2012	\$405,000	538,000
2013	\$269,000	629,000
2014	\$222,000	336,000
2015	\$135,000	221,000
2016	\$57,000	77,000
2017	\$81,000	121,000
2018	\$677,000	1,744,000
2019	\$139,000	240,000
<b>Total</b>	<b>\$3,357,000</b>	<b>7,282,000</b>

Table 32: Twelve Year Total Revenue and Landings, All Areas

Year	Revenue	Landings (Pounds)
2008	\$3,331,000	6,857,000
2009	\$3,731,000	12,553,000
2010	\$3,878,000	8,779,000
2011	\$4,406,000	9,146,000
2012	\$4,770,000	11,382,000
2013	\$4,554,000	15,672,000
2014	\$3,899,000	11,922,000
2015	\$4,101,000	8,736,000
2016	\$6,078,000	11,450,000
2017	\$5,956,000	8,376,000
2018	\$5,357,000	7,208,000

Year	Revenue	Landings (Pounds)
2019	\$5,209,000	7,021,000
<b>Total</b>	<b>\$55,270,000</b>	<b>119,102,000</b>

### Revenue by Port

The ten most impacted (by revenue) ports are listed below. These ports are estimated to receive the most landings from fishing done within the River Herring and Shad areas. The table below displays each port's landings breakdown by area. Both tables present the cumulative revenues from 2008-2019. Point Judith receives the highest value of landings of any port, with \$32.557 million from 2008-2019. All numbers have been rounded to the nearest thousand.

Table 33: Most Impacted Ports, by Landings Revenues

City	State	Twelve Year Revenue
Point Judith	RI	\$32,557,000
Gloucester	MA	\$7,000,000
Montauk	NY	\$2,964,000
North Kingstown	RI	\$2,609,000
Seabrook	NH	\$2,251,000
Stonington	CT	\$1,819,000
New Bedford	MA	\$1,176,000
Davisville	RI	\$1,041,000
Newport	RI	\$910,000
All Others		\$850,000

Table 34: Landings by Area

Port	Rhs 1 Nhma Merge	Rhs 2 Cape Merge	Rhs 3 Ri Merge	Rhs 4 Nj Merge
Point Judith, RI	\$1,000	\$279,000	\$31,692,000	\$585,000
Gloucester, MA	\$4,253,000	\$2,746,000	NA	NA
Montauk, NY	NA	\$30,000	\$2,696,000	\$238,000
North Kingstown, RI	NA	NA	\$1,532,000	\$1,077,000
Seabrook, NH	\$2,251,000	NA	NA	NA
Stonington, CT	NA	\$8,000	\$1,794,000	\$17,000
New Bedford, MA	\$17,000	\$985,000	\$165,000	\$9,000
Davisville, RI	NA	NA	\$894,000	\$148,000
Newport, RI	NA	\$1,000	\$884,000	\$25,000
All Others	\$660,000	\$117,000	\$63,000	\$11,000

### Percentage of Revenue by Permit

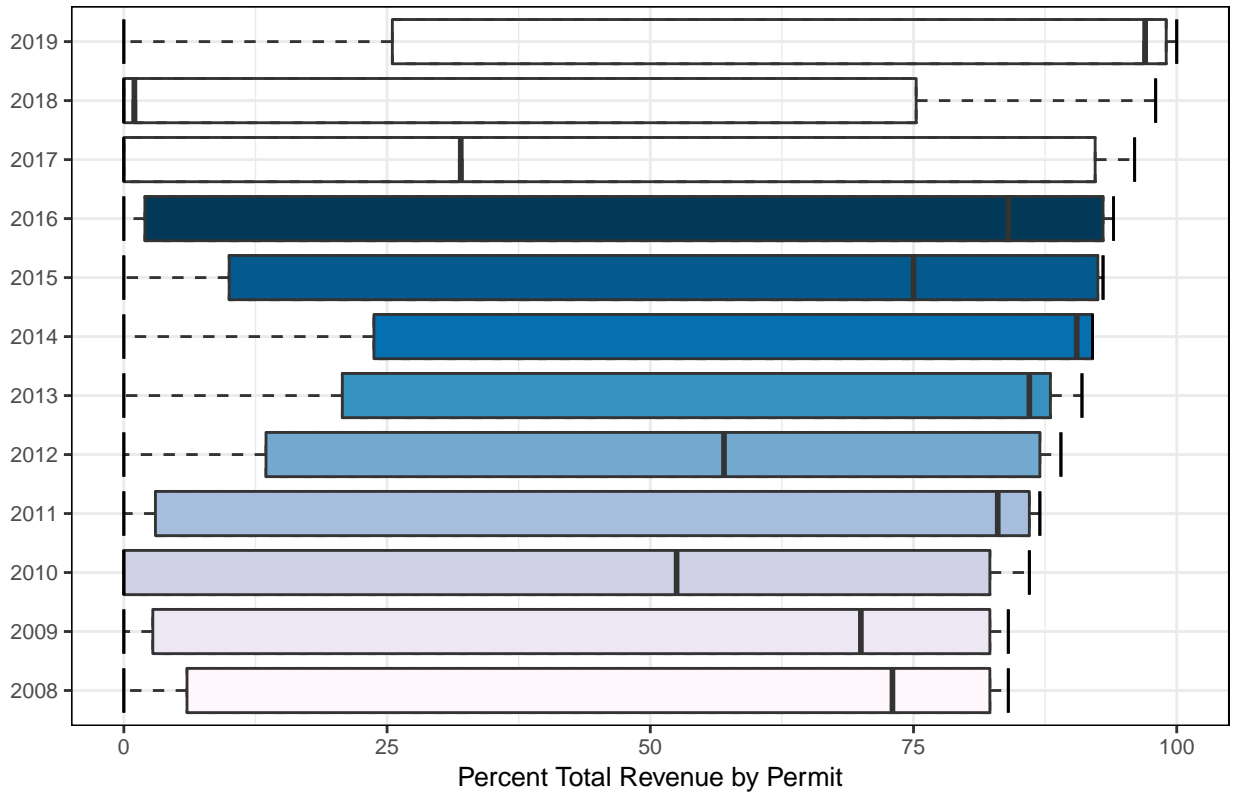
We also analyzed the percentage of each permit's total commercial fishing revenue coming from within the River Herring and Shad areas (see boxplots figures and tables below). Boxplots are important statistical summaries because they provide information about the distribution of the percentages. The boxplots below begin at the 1st quartile, or the value beneath which 25 percent of all observations fall. A thick line within the box identifies the median, the observation at which 50 percent of observations are above or beneath. The box ends at the 3rd quartile, or the observation beneath which 75 percent of observations fall. Nonparametric estimates of the minimum and maximum values are also indicated by the "whiskers" (dashed

line terminating in a vertical line) that jut out from each side of the box. Any points outside of these whiskers are observations that are considered outliers. In our tables, however, the maximum values are inclusive of outliers. The table below presents the minimum, 1st quartile, median, 3rd quartile, and maximum values for each area. These are the twelve year revenue percentages. The boxplots in the figures below further separate each area out by year.

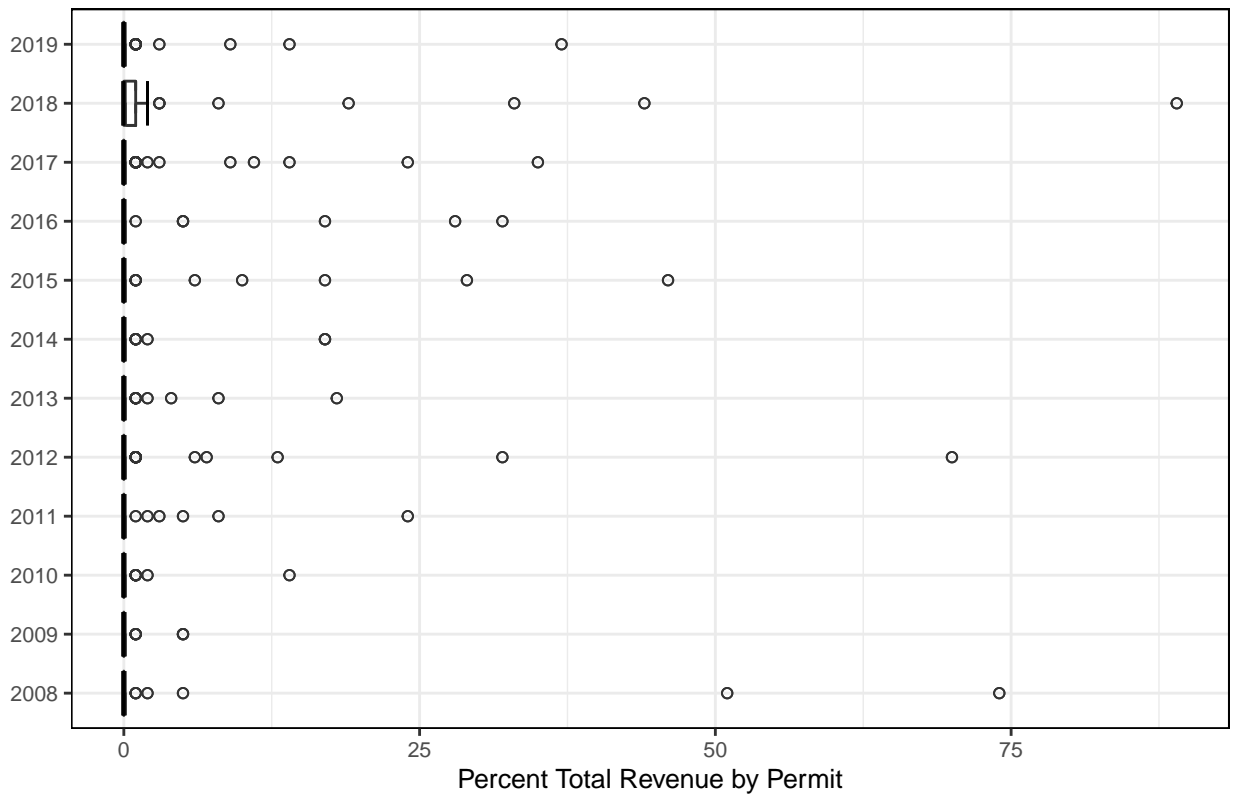
Area	Min	1st Quartile	Median	3rd Quartile	Max
Rhs 1 Nhma Merge	0	0.57	25	81	95
Rhs 2 Cape Merge	0	0.05	0.13	0.40	74
Rhs 3 Ri Merge	0	0.33	3	22	96
Rhs 4 Nj Merge	0	0.10	0.31	1	25



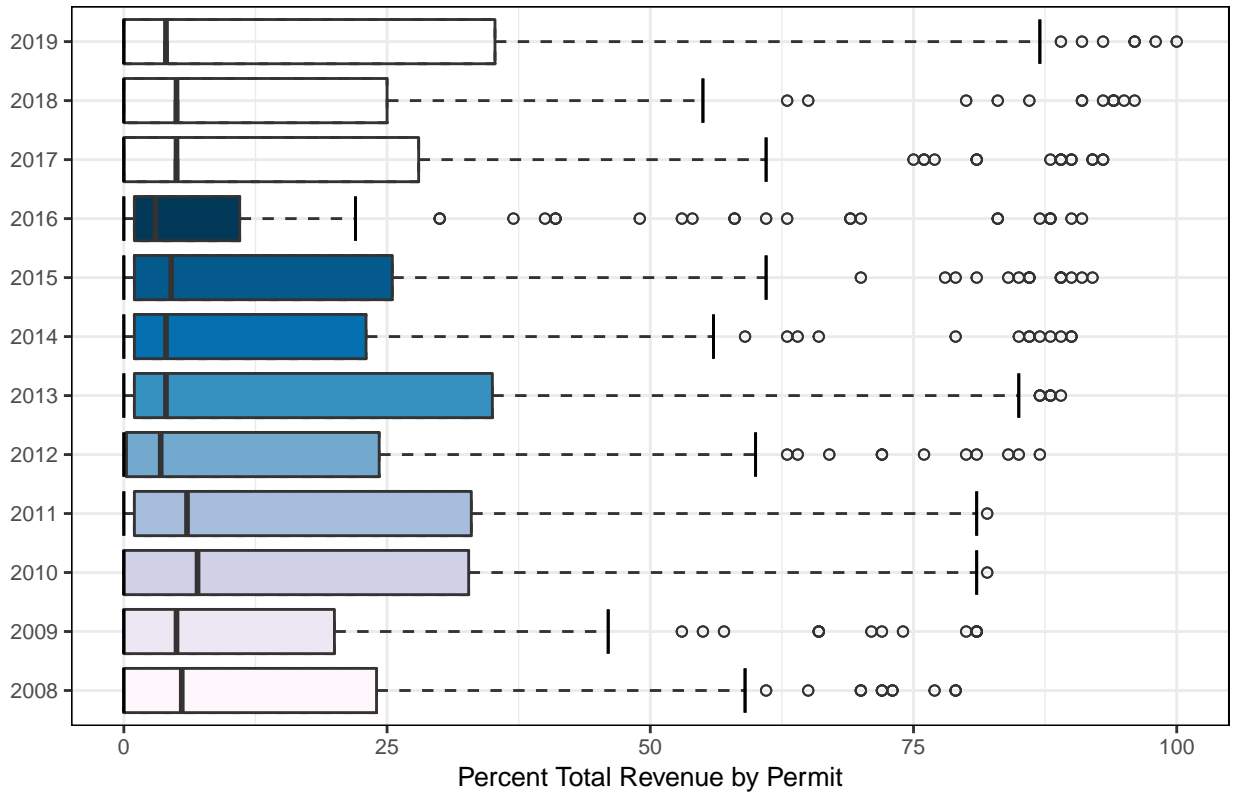
Annual Permit Revenue Percentage Boxplots, Rhs 1 Nhma Merge



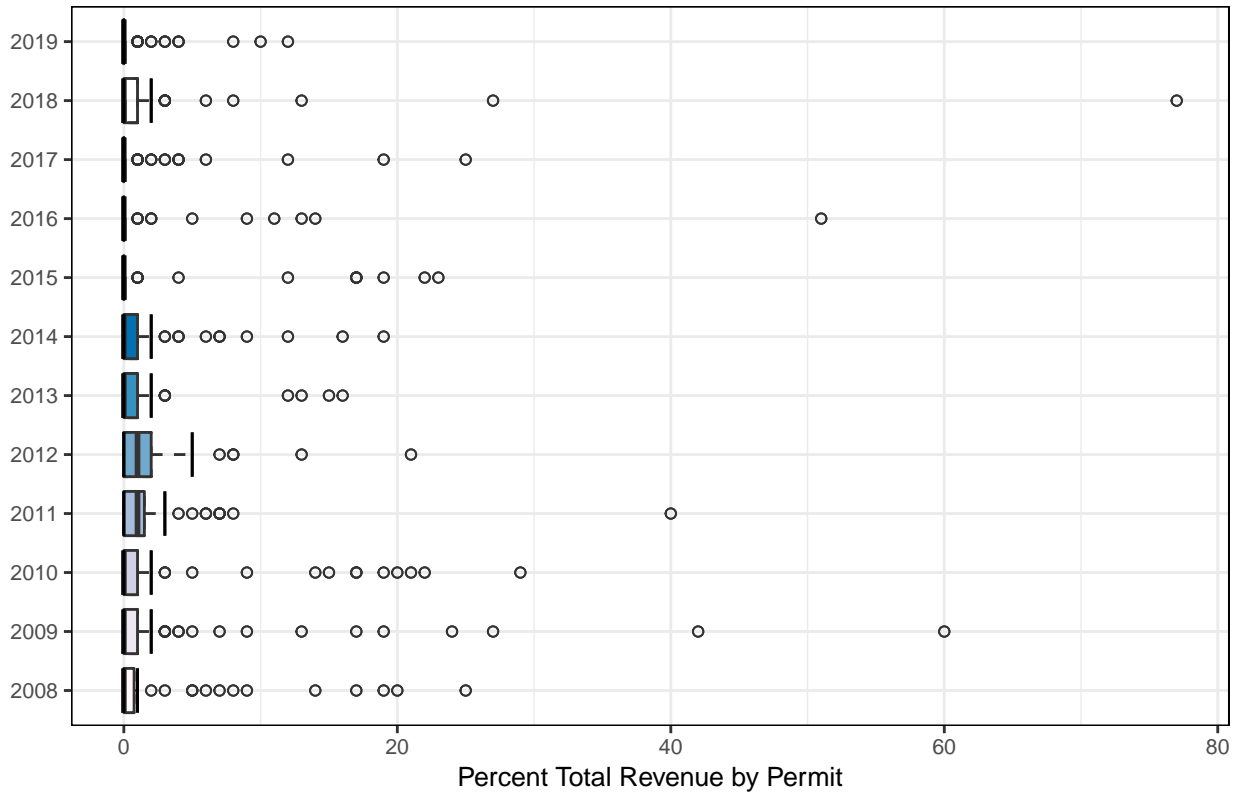
Annual Permit Revenue Percentage Boxplots, Rhs 2 Cape Merge



Annual Permit Revenue Percentage Boxplots, Rhs 3 Ri Merge



Annual Permit Revenue Percentage Boxplots, Rhs 4 Nj Merge



# Tables and Reports for midwater Trawl - River Herring Areas

Min-Yang Lee

June 09, 2021

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Descriptions of Selected Fishery Landings and Estimates of Vessel Revenue from Selected Areas

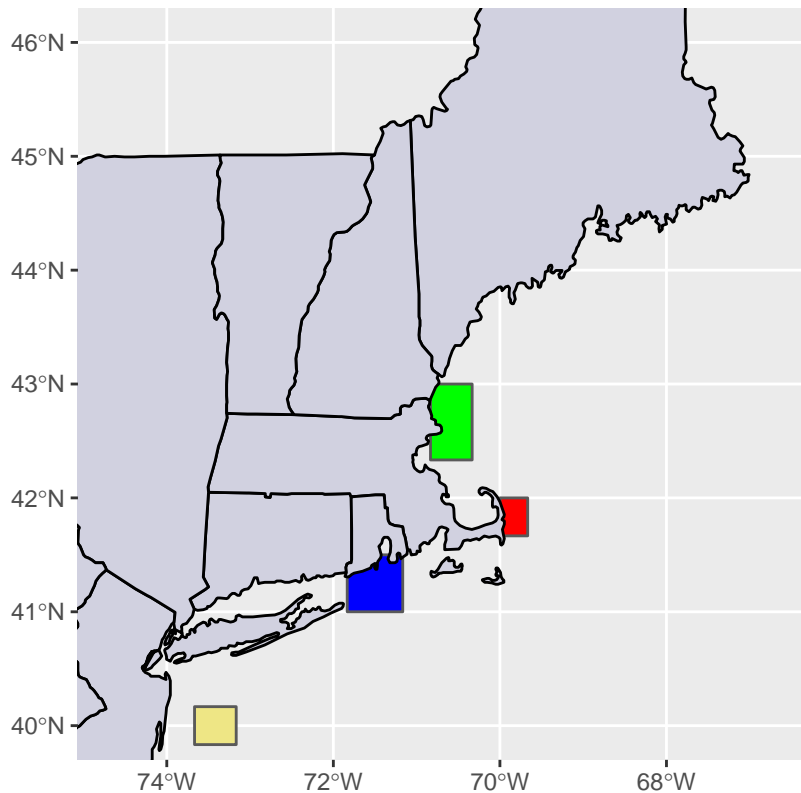
Midwater and Paired Midwater Trawl Only

**Please keep in mind that we confined our analysis to only trips that fished with midwater trawl gear. This means that, while we have figures that describe impacts in percentage terms (say, the percentage of revenues by a permit that are in a particular area), the denominator in those sections is “midwater trawl revenue” and not “all fishing revenue”**

Prepared by:  
National Marine Fisheries Service

June 09, 2021

## River Herring and Shad



Data sources:

Commerical Fisheries landings data, Vessel Trip Reports, and Surfclam/OceanQuahog Logbooks

**In order to meet requirements of maintaining data confidentiality, these strata are presented individually. In addition, records that did not meet the rule of three ( $\geq 3$  unique dealers and  $\geq 3$  unique permits), values were summarized as ‘ALL OTHERS’.**

Some caveats/notes: \* When mapped, values are reported in nominal dollars per square kilometer. \* When mapped, values reported are nominal dollars per square kilometer. \* Values are reported in nominal dollars. Values in 2019 dollars are reported as well (see below for details). \* Pounds are reported in landed (dressed) pounds. \* Data summarized here is based on vessels that are required to provide federal VTRs. \* Federal lobster vessels, with only lobster permits, do not have a VTR requirement. Many Atlantic Highly Migratory Species permitted vessels also do not have a VTR requirement. Trips with no VTR are not reflected in this summary. \* There exist other fisheries in State waters that may not be reflected in data from federal sources (e.g. whelk, bluefish). It is recommended to query state agencies for additional data within state waters. \* All summaries presented here are built from percentages of a trip that overlapped spatially with the areas. These percentages were applied to landings and values for that trip and summed. This differs from simply using the self-reported VTR/clam logbook locations as those place all value from that trip at a single point. Use of the VTR raster model is more representative as smoothing reported locations reduces the effect of location inaccuracy.

#### References

DePiper GS (2014) Statistically assessing the precision of self-reported VTR fishing locations.  
Benjamin S, Lee MY, DePiper G. 2018. Visualizing fishing data as rasters. NEFSC Ref Doc 18-12; 24 p.

## Most Impacted Species

We analyzed the top 10 species due to their economic importance in the area and to isolate them from combined FMPs. The top 10 species by revenue are: Atlantic Herring, Atlantic Mackerel, All Others, Menhaden, Longfin Squid, Blue Back Herring, Haddock, Silver Hake, Dogfish Spiny and Red Hake . The category “All Others” refers to species with less than three permits or dealers impacted to protect data confidentiality. Revenue values have been deflated to 2019 dollars. All numbers have been rounded to the nearest thousand.

Figure 1.1 Landings of Top Species, RHS 1 NHMA Merge

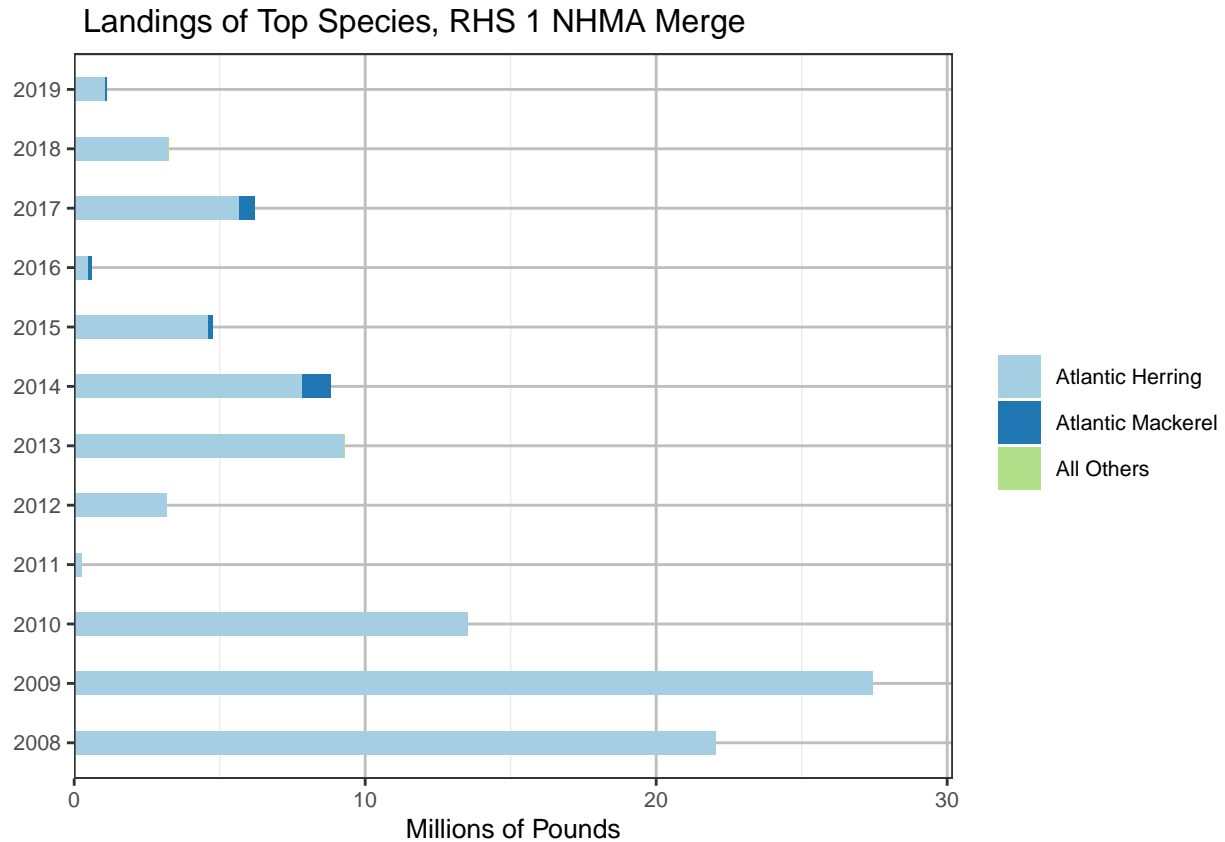


Table 1: Twelve Year Total Landings (Pounds), Most Impacted Species, RHS 1 NHMA Merge

Species	Twelve Year Landings
Atlantic Herring	98,617,000
Atlantic Mackerel	1,800,000
All Others	8,000
<b>Total</b>	<b>100,425,000</b>

Figure 1.2 Revenue from Most Impacted Species, RHS 1 NHMA Merge

### Revenue from Most Impacted Species, RHS 1 NHMA Merge

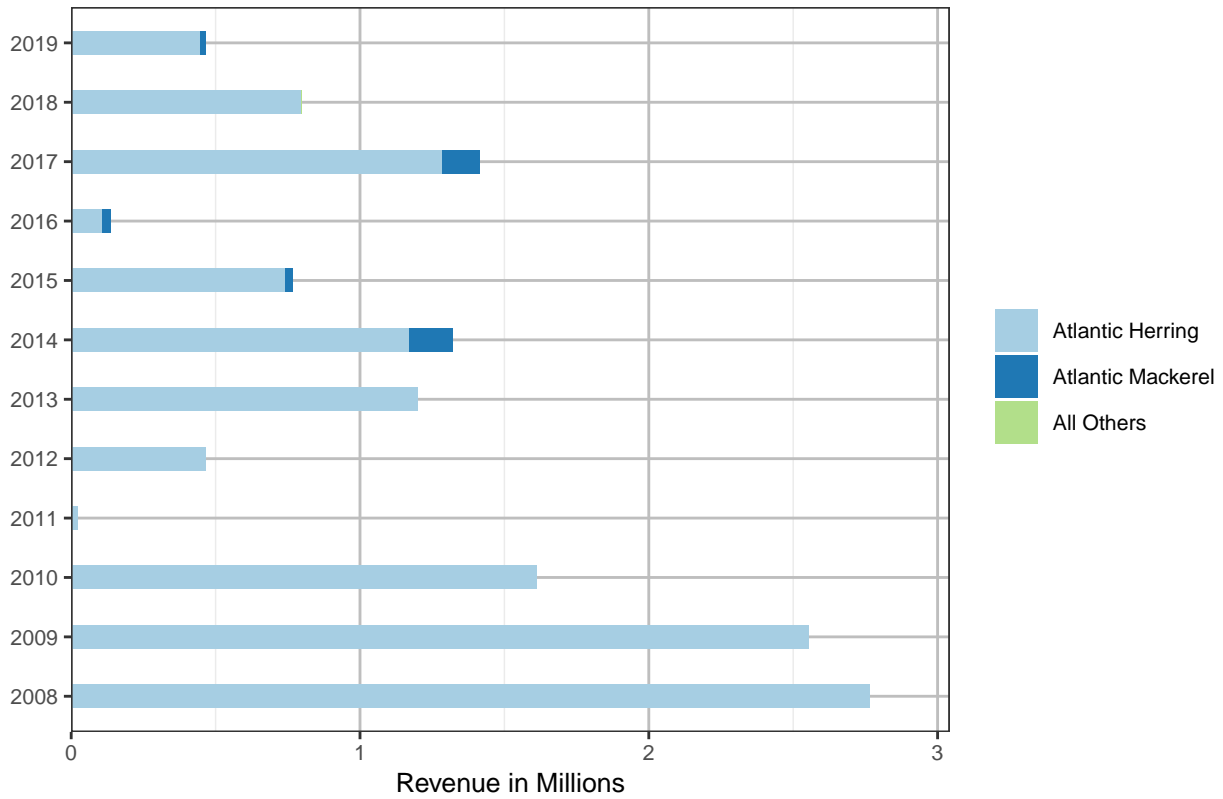


Table 2: Twelve Year Total Revenue, Most Impacted Species, RHS 1 NHMA Merge

Species	Twelve Year Revenue
Atlantic Herring	\$13,170,000
Atlantic Mackerel	\$350,000
All Others	\$4,000
<b>Total</b>	<b>\$13,525,000</b>

Figure 1.3 Landings of Top Species, RHS 2 Cape Merge

Landings of Top Species, RHS 2 Cape Merge

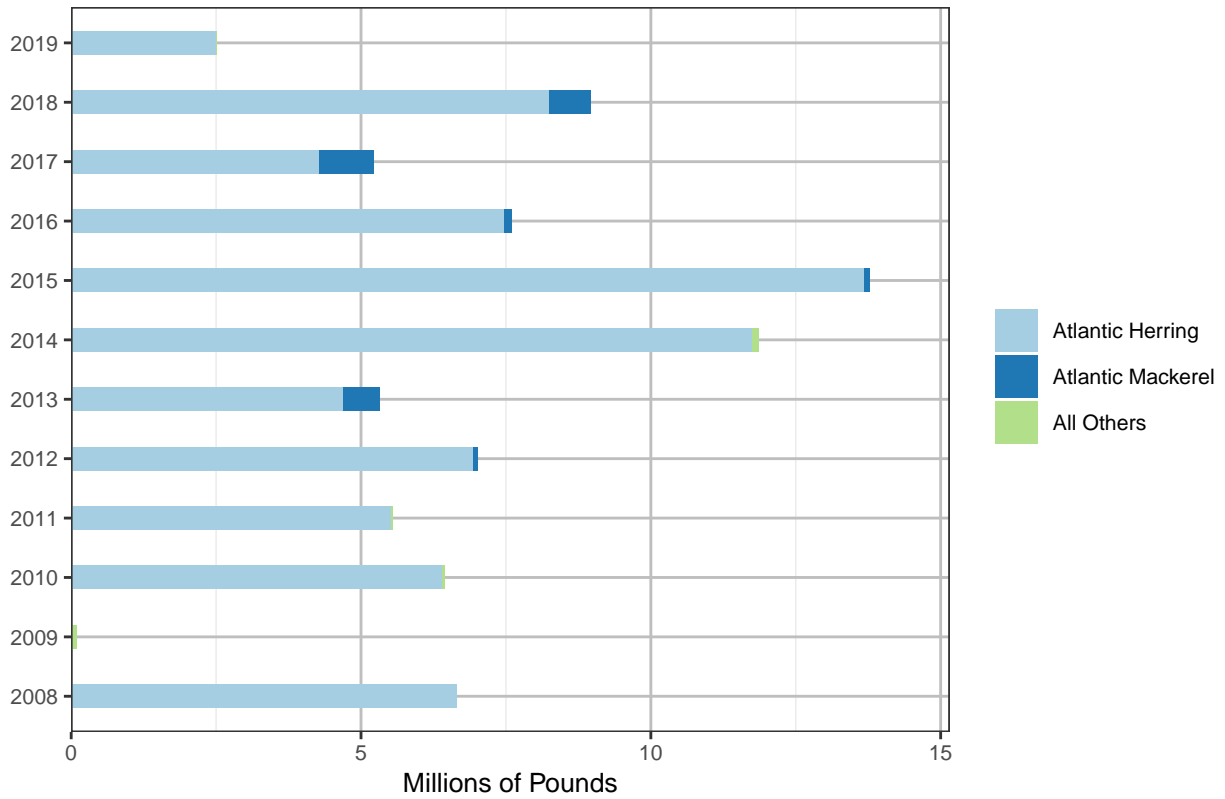


Table 3: Twelve Year Total Landings (Pounds), Most Impacted Species, RHS 2 Cape Merge

Species	Twelve Year Landings
Atlantic Herring	78,107,000
Atlantic Mackerel	2,583,000
All Others	298,000
<b>Total</b>	<b>80,988,000</b>

Figure 1.4 Revenue from Most Impacted Species, RHS 2 Cape Merge



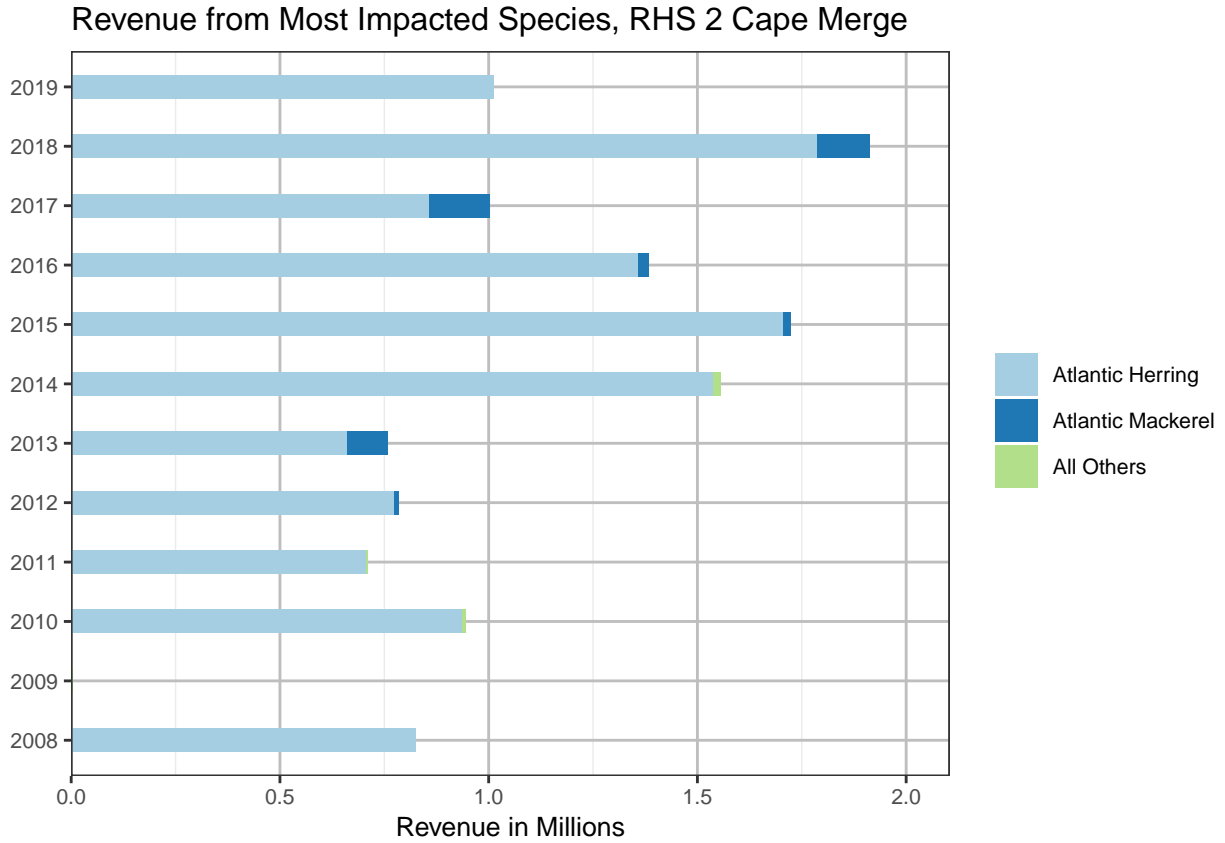


Table 4: Twelve Year Total Revenue, Most Impacted Species, RHS 2 Cape Merge

Species	Twelve Year Revenue
Atlantic Herring	\$12,157,000
Atlantic Mackerel	\$424,000
All Others	\$39,000
<b>Total</b>	<b>\$12,619,000</b>

Figure 1.5 Landings of Top Species, RHS 3 RI Merge

### Landings of Top Species, RHS 3 RI Merge

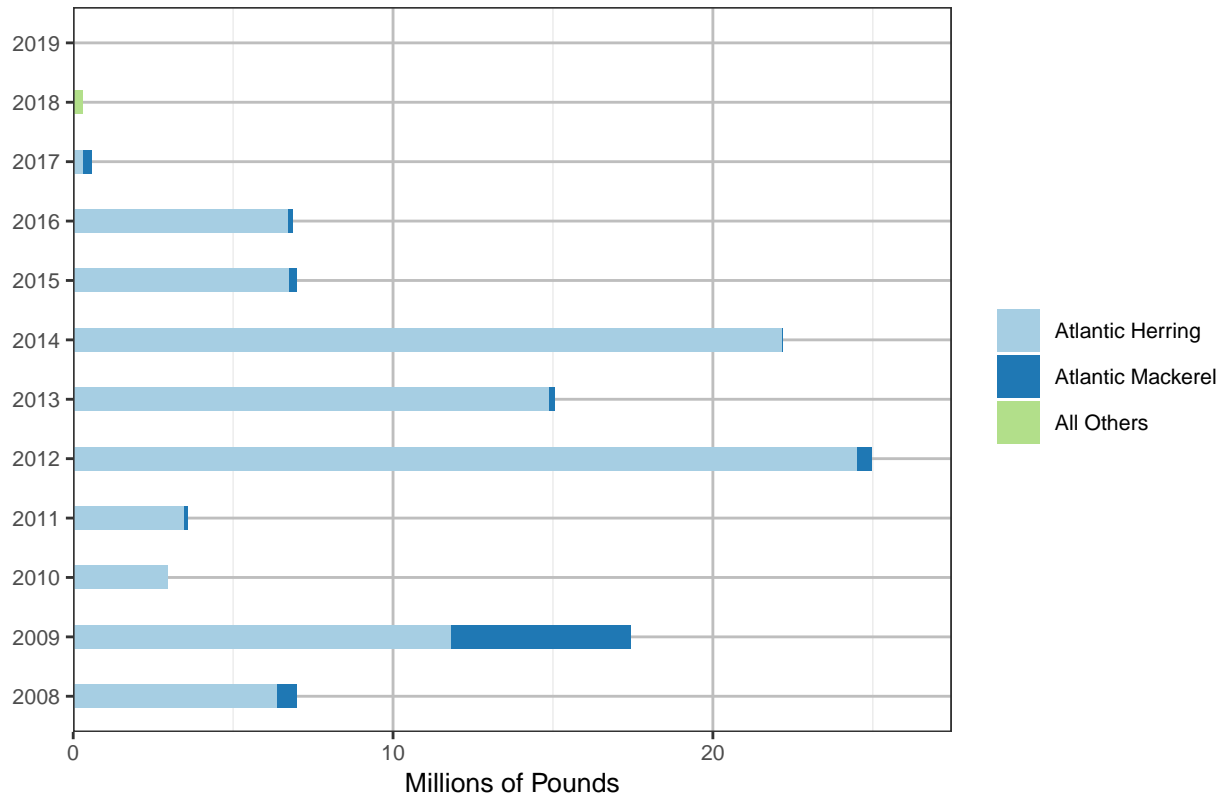


Table 5: Twelve Year Total Landings (Pounds), Most Impacted Species, RHS 3 RI Merge

Species	Twelve Year Landings
Atlantic Herring	99,972,000
Atlantic Mackerel	7,638,000
All Others	310,000
<b>Total</b>	<b>107,920,000</b>

Figure 1.6 Revenue from Most Impacted Species, RHS 3 RI Merge

### Revenue from Most Impacted Species, RHS 3 RI Merge

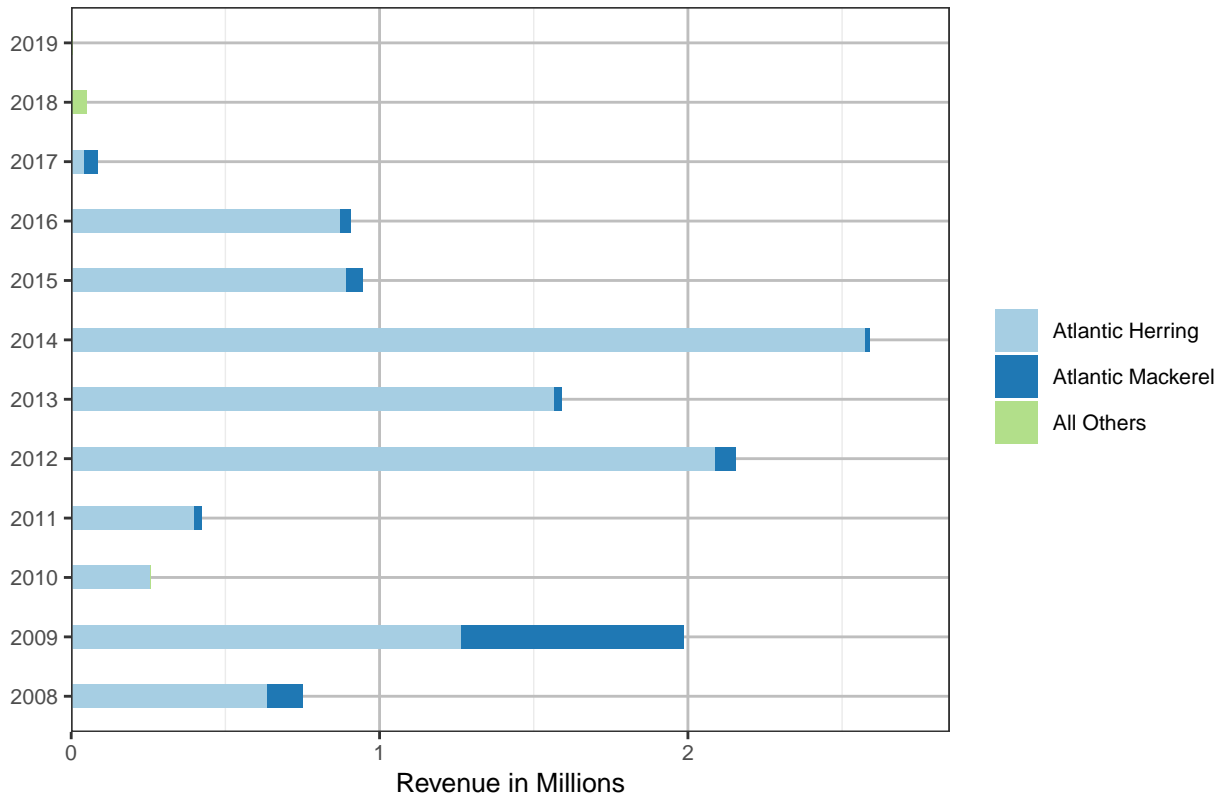


Table 6: Twelve Year Total Revenue, Most Impacted Species, RHS 3 RI Merge

Species	Twelve Year Revenue
Atlantic Herring	\$10,594,000
Atlantic Mackerel	\$1,093,000
All Others	\$55,000
<b>Total</b>	<b>\$11,742,000</b>

Figure 1.7 Landings of Top Species, RHS 4 NJ Merge

Landings of Top Species, RHS 4 NJ Merge

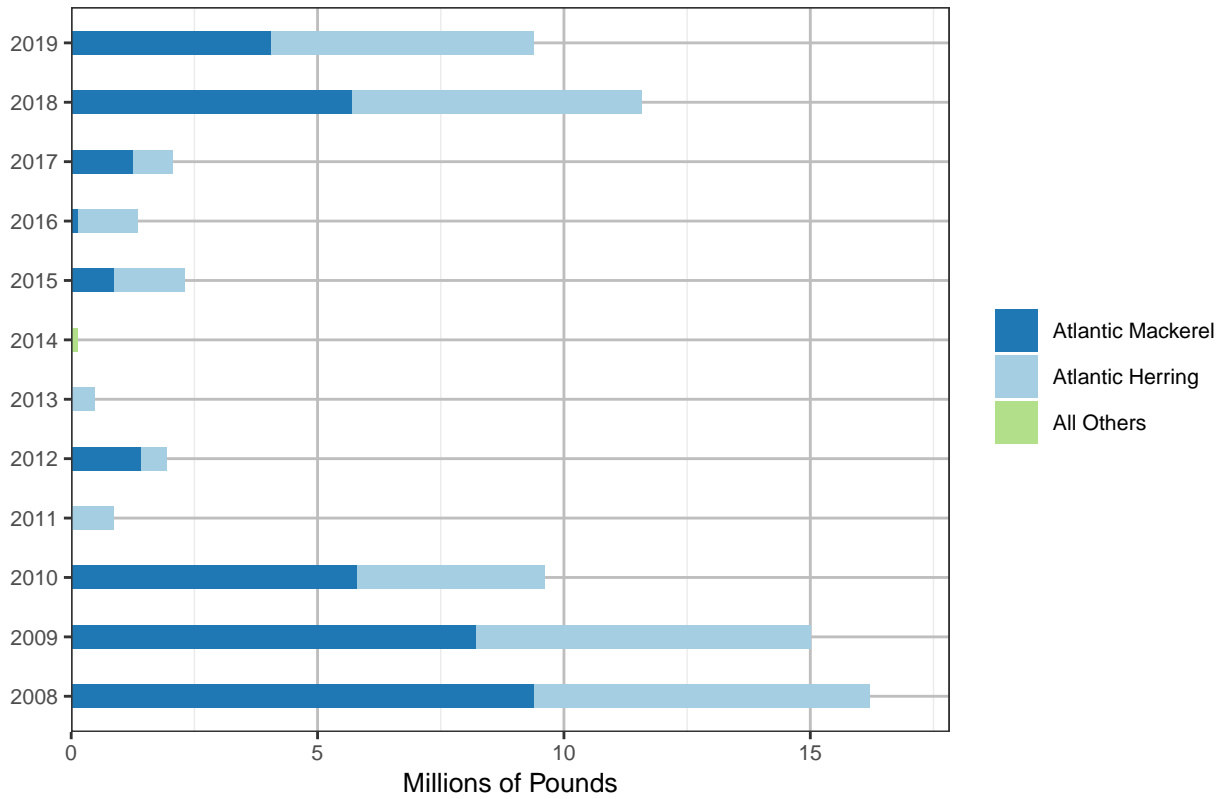


Table 7: Twelve Year Total Landings (Pounds), Most Impacted Species, RHS 4 NJ Merge

Species	Twelve Year Landings
Atlantic Mackerel	36,813,000
Atlantic Herring	33,925,000
All Others	137,000
<b>Total</b>	<b>70,875,000</b>

Figure 1.8 Revenue from Most Impacted Species, RHS 4 NJ Merge

### Revenue from Most Impacted Species, RHS 4 NJ Merge

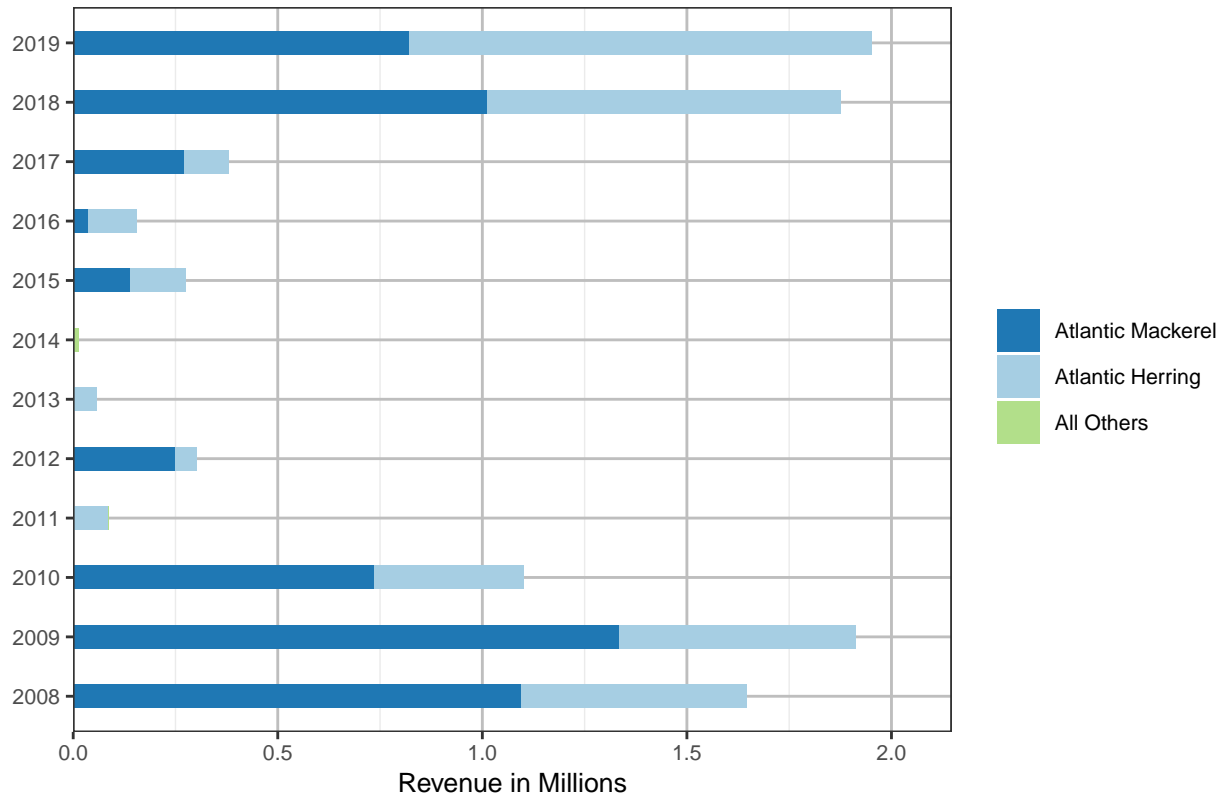


Table 8: Twelve Year Total Revenue, Most Impacted Species, RHS 4 NJ Merge

Species	Twelve Year Revenue
Atlantic Mackerel	\$5,685,000
Atlantic Herring	\$4,055,000
All Others	\$15,000
<b>Total</b>	<b>\$9,755,000</b>

### Summary

Table 9: Most Impacted Species Twelve Year Revenue and Landings

Area	Twelve Year Revenue	Twelve Year Landings (Pounds)
RHS 1 NHMA Merge	\$13,525,000	100,425,000
RHS 2 Cape Merge	\$12,619,000	80,988,000
RHS 3 RI Merge	\$11,742,000	107,920,000
RHS 4 NJ Merge	\$ 9,755,000	70,875,000
<b>Total</b>	<b>\$47,641,000</b>	<b>360,208,000</b>

## Totals

The following tables display the given year total revenue and total landed pounds of all species by all gear types within each area. RHS 1 NHMA Merge totals the most pounds landed, 107.967 million. RHS 1 NHMA Merge totals the most revenue derived from within an area, \$13.542 million. All numbers have been rounded to the nearest thousand.

Table 10: Twelve Year Total Revenue and Landings (Pounds), RHS 1 NHMA Merge

Year	Revenue	Landings
2008	\$2,767,000	22,065,000
2009	\$2,555,000	27,448,000
2010	\$1,625,000	13,552,000
2011	\$24,000	246,000
2012	\$467,000	3,163,000
2013	\$1,199,000	9,278,000
2014	\$1,321,000	8,825,000
2015	\$768,000	4,761,000
2016	\$137,000	623,000
2017	\$1,415,000	6,187,000
2018	\$797,000	3,227,000
2019	\$467,000	1,104,000
<b>Total</b>	<b>\$13,542,000</b>	<b>100,483,000</b>

Table 11: Twelve Year Total Revenue and Landings (Pounds), RHS 2 Cape Merge

Year	Revenue	Landings
2008	\$825,000	6,655,000
2010	\$947,000	6,439,000
2011	\$712,000	5,547,000
2012	\$784,000	7,010,000
2013	\$761,000	5,329,000
2014	\$1,556,000	11,858,000
2015	\$1,725,000	13,778,000
2016	\$1,385,000	7,601,000
2017	\$1,004,000	5,223,000
2018	\$1,915,000	8,966,000
2019	\$1,021,000	2,521,000
All Others	\$5,000	92,000
<b>Total</b>	<b>\$12,639,000</b>	<b>81,019,000</b>

Table 12: Twelve Year Total Revenue and Landings (Pounds), RHS 3 RI Merge

Year	Revenue	Landings
2008	\$765,000	6,997,000
2009	\$1,985,000	17,440,000
2010	\$257,000	2,957,000

Year	Revenue	Landings
2011	\$425,000	3,583,000
2012	\$2,157,000	24,971,000
2013	\$1,593,000	15,045,000
2014	\$2,594,000	22,196,000
2015	\$945,000	7,005,000
2016	\$906,000	6,868,000
2017	\$85,000	595,000
All Others	\$55,000	310,000
<b>Total</b>	<b>\$11,768,000</b>	<b>107,967,000</b>

Table 13: Twelve Year Total Revenue and Landings (Pounds), RHS  
4 NJ Merge

Year	Revenue	Landings
2008	\$1,649,000	16,217,000
2009	\$1,913,000	15,001,000
2010	\$1,102,000	9,610,000
2011	\$86,000	856,000
2012	\$351,000	2,021,000
2013	\$57,000	471,000
2015	\$280,000	2,311,000
2016	\$156,000	1,346,000
2017	\$381,000	2,079,000
2018	\$1,929,000	11,807,000
2019	\$1,952,000	9,383,000
All Others	\$15,000	134,000
<b>Total</b>	<b>\$9,871,000</b>	<b>71,237,000</b>

Table 14: Twelve Year Total Revenue and Landings, All Areas

Year	Revenue	Landings (Pounds)
2008	\$6,006,000	51,936,000
2009	\$6,453,000	59,889,000
2010	\$3,931,000	32,558,000
2011	\$1,247,000	10,232,000
2012	\$3,760,000	37,164,000
2013	\$3,610,000	30,123,000
2014	\$5,471,000	42,880,000
2015	\$3,719,000	27,855,000
2016	\$2,584,000	16,438,000
2017	\$2,885,000	14,085,000
2018	\$4,641,000	24,000,000
2019	\$3,440,000	13,009,000
All Others	\$74,000	537,000
<b>Total</b>	<b>\$47,820,000</b>	<b>360,706,000</b>

## Revenue by Port

The ten most impacted (by revenue) ports are listed below. These ports are estimated to receive the most landings from fishing done within the River Herring and Shad areas. The table below displays each port's landings breakdown by area. Both tables present the cumulative revenues from 2008-2019. Gloucester receives the highest value of landings of any port, with \$15.945 million from 2008-2019. All numbers have been rounded to the nearest thousand.

Table 15: Most Impacted Ports, by Landings Revenues

City	State	Twelve Year Revenue
Gloucester	MA	\$15,945,000
New Bedford	MA	\$12,593,000
All Others		\$9,517,000
Portland	ME	\$6,623,000
Point Judith	RI	\$2,405,000
Fall River	MA	\$578,000
Boston	MA	\$158,000

Table 16: Landings by Area

Port	Rhs 1 Nhma Merge	Rhs 2 Cape Merge	Rhs 3 Ri Merge	Rhs 4 Nj Merge
Gloucester, MA	\$7,156,000	\$6,203,000	\$941,000	\$1,645,000
New Bedford, MA	\$1,172,000	\$1,387,000	\$6,819,000	\$3,216,000
All Others	\$1,856,000	\$1,395,000	\$1,602,000	\$4,663,000
Portland, ME	\$3,126,000	\$3,497,000	NA	NA
Point Judith, RI	NA	NA	\$2,405,000	NA
Fall River, MA	\$232,000	NA	NA	\$346,000
Boston, MA	NA	\$158,000	NA	NA

## Percentage of Revenue by Permit

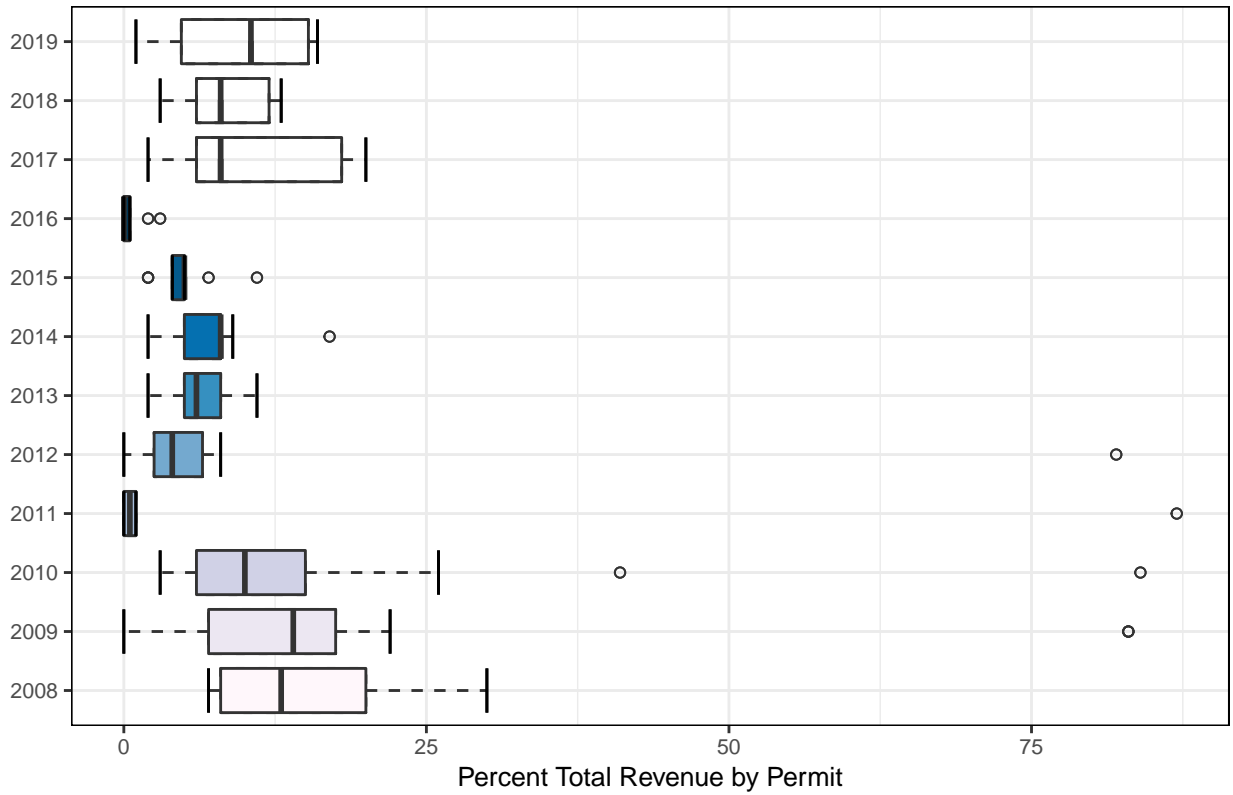
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Nonparametric estimates of the minimum and maximum values are also indicated by the "whiskers" (dashed line terminating in a vertical line) that jut out from each side of the box. Any points outside of these whiskers are observations that are considered outliers. In our tables, however, the maximum values are inclusive of outliers. The table below presents the minimum, 1st quartile, median, 3rd quartile, and maximum values for each area. These are the twelve year revenue percentages. The boxplots in the figures below further separate each area out by year.

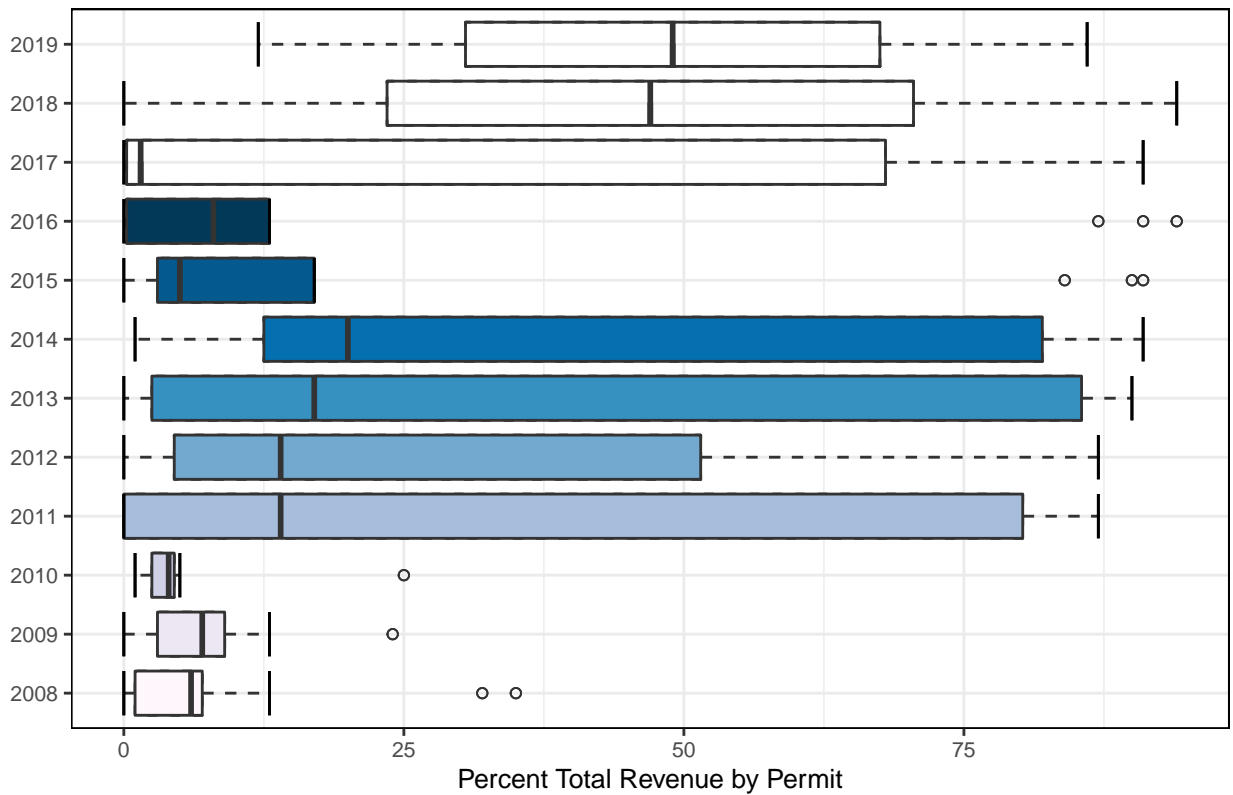
Area	Min	1st Quartile	Median	3rd Quartile	Max
Rhs 1 Nhma Merge	0.39	7	9	14	87
Rhs 3 Ri Merge	0.61	4	9	37	91
Rhs 2 Cape Merge	0	4	7	10	35
Rhs 4 Nj Merge	0	4	6	12	21



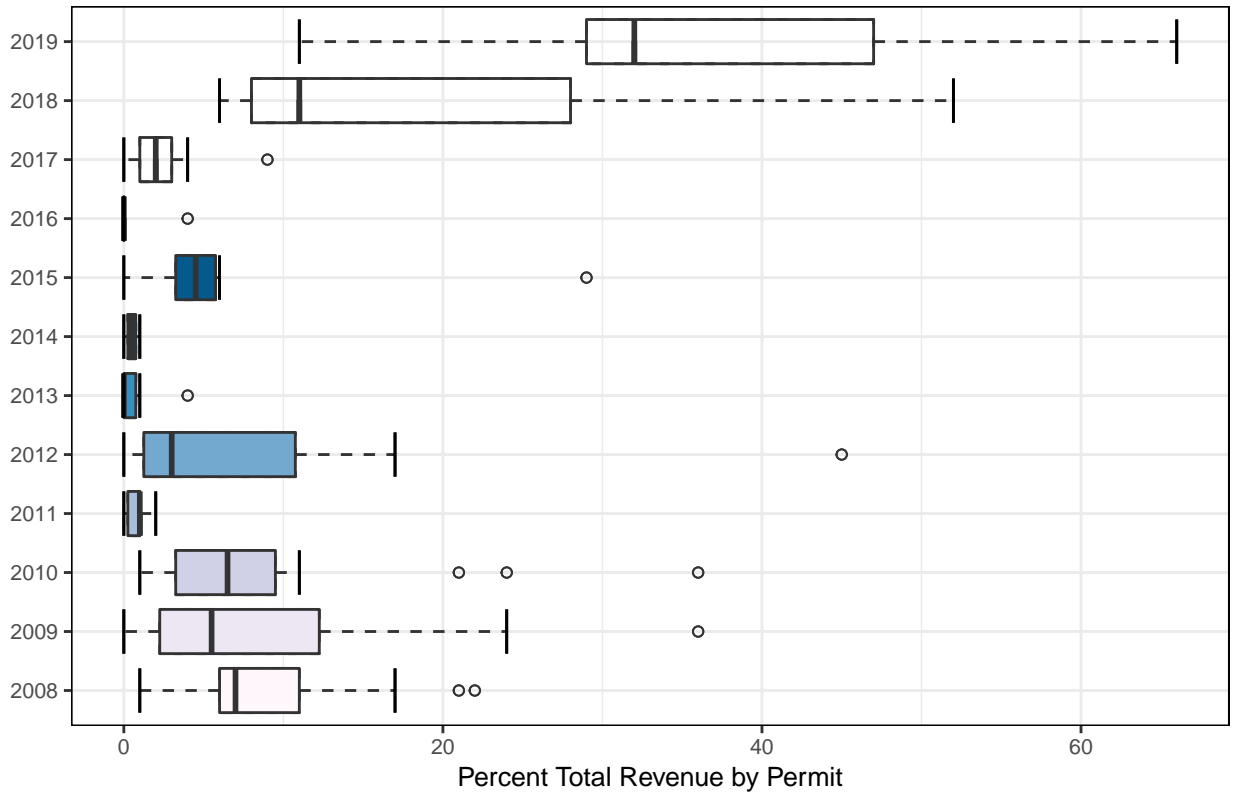
Annual Permit Revenue Percentage Boxplots, Rhs 1 Nhma Merge



Annual Permit Revenue Percentage Boxplots, Rhs 3 Ri Merge



Annual Permit Revenue Percentage Boxplots, Rhs 4 Nj Merge



Annual Permit Revenue Percentage Boxplots, Rhs 2 Cape Merge

