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# 2013 Discard Estimation, Precision, and Sample Size Analyses for 14 Federally Managed Species Groups in the Northeast Region

by SE Wigley, J Blaylock, PJ Rago, and G Shield

May 2013

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## LIST OF ACRONYMS AND ABBREVIATIONS

AA = Access area  
ASM = At-Sea Monitoring Program  
ASMFC = Atlantic States Marine Fisheries Commission  
CV = coefficient of variation  
d/k = discard/kept  
FED = finfish excluder device  
FMP = fishery management plan  
GEN = General category  
lg = large mesh  
LIM = Limited access category  
MA = Mid-Atlantic  
MPC = minimum pilot coverage  
MRFSS = Marine Recreational Fisheries Statistical Survey  
MRIP = Marine Recreational Information Program  
NE = New England  
NEFOP = Northeast Fisheries Observer Program  
NEFSC = Northeast Fisheries Science Center  
NMFS = National Marine Fisheries Service  
OPEN = Non-access area  
SBRM = Standardized Bycatch Reporting Methodology  
sm = small mesh  
VTR = Vessel Trip Report  
xlg = extra large mesh

## EXECUTIVE SUMMARY

This report describes the analysis of the expected coverage needed by at-sea observers for Northeast fisheries for the April 2013 through March 2014 period using the Standardized Bycatch Reporting Methodology. Refinements to the procedure for filtering the needed sea days have been made based on analyses conducted for the SBRM 3-year Review Report – 2011 (Part 1 and Part 2).

The sea days needed to achieve the precision-based performance standard (30% coefficient of variation of the discard estimate) were updated using July 2011 through June 2012 data. Analyses revealed that observer coverage within a fleet corresponded well with the spatial and temporal patterns of fishing activity for fleets with observer coverage. To monitor 14 federally managed fish and invertebrate species groups across 56 fleets, a total of 11,499 sea days are needed. The discards reported in this document may not necessarily correspond directly with the discard estimates derived for individual stock assessments due to differences in stratification and data. Hence, the discard estimates are not definitive, but indicative of where discarding is occurring among commercial fleets and for which species groups. Based upon this analysis, the predominant species groups discarded are skates, dogfish and scallops. Across all species groups examined, “No Market” is the reason reported for the majority of discards.

## BACKGROUND

The Standardized Bycatch Reporting Methodology (SBRM) Omnibus Amendment (NEFMC 2007; NMFS 2008) was vacated by the US District Court of the District of Columbia on September 15, 2011 and the regulations implementing the SBRM were removed by the National Marine Fisheries Service (NMFS) on December 29, 2011 (NMFS 2011). While an SBRM is not currently required, the need to allocate observer sea days to monitor fisheries prosecuted off the northeast coast of the US remains and thus an analysis to estimate the number of sea days needed by each fleet was conducted.

The SBRM discard estimation methods described in Wigley et al. 2007 are still applicable. Refinements to the procedure for filtering the needed sea days have been made based on analyses conducted for the 2011 SBRM 3-year Review Report (Wigley et al. 2012a). The analyses conducted for 2013 are similar to those conducted in 2012 (Wigley et al. 2012b).

This document presents the estimated discards and associated precision, and the number of sea days needed to obtain a 30% coefficient of variation (CV) on the discard estimates for the 14 species groups associated with federal fishery management plans (FMPs) in northeast fleets<sup>1</sup>. Additionally, discard reasons associated with the discarded species are summarized. This document and Wigley et al. (2012b) differ from previous SBRM documents in that it does not include a sea day prioritization<sup>2</sup> and focuses on fish and invertebrate species groups; it does not include sea turtles.

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<sup>1</sup> “fleet” is synonymous with “fishing mode.”

<sup>2</sup> The Proposed 2012 Observer Sea Day Allocation (March 23, 2012) document is available on-line at: [http://www.nefsc.noaa.gov/femad/fsb/SBRM/2012/Proposed\\_2012\\_Observer\\_Sea\\_Day\\_Allocation\\_3-23-2012\\_v3.pdf](http://www.nefsc.noaa.gov/femad/fsb/SBRM/2012/Proposed_2012_Observer_Sea_Day_Allocation_3-23-2012_v3.pdf) When available, the Proposed 2013 Observer Sea Day Allocation document will be posted on the SBRM website under Additional Documents.

# METHODS

## Data Sources

The data sets used include July 2011 through June 2012 data from the Northeast Fisheries Observer Program<sup>3</sup> (NEFOP) database, the Vessel Trip Report (VTR; including logbooks from the surfclam and ocean quahog fishery) database, the Northeast Fisheries Science Center (NEFSC) commercial landings database, and the NOAA Marine Recreational Information Program<sup>4</sup> (MRIP) database.

The NEFOP is a comprehensive, multi-purpose program that collects a broad range of data on all species that are encountered during a fishing trip as well as gear characteristics data, economic information, and biological samples (NEFOP, 2010). The NEFOP employs trained sea-going observers and monitors to collect these data that also include weight, by species and disposition (retained and discarded), of the entire catch. Fish and invertebrate species are recorded in weight. Conversion factors were applied to convert any dressed weight data to live weight equivalents.

For this analysis, only observed hauls from NEFOP trips with a “complete” sampling protocol were used. A “complete” sampling protocol includes obtaining species weights for both kept and discarded portions of all species in the catch. NEFOP training trips have been included in the analysis. Aborted trips and “set only” trips were excluded from this analysis along with one trip fishing in a statistical area associated with the Southeast region (statistical area ‘702’), one trip landing outside the Northeast region, and 12 “carrier” trips (*contarea* = “050”; no fishing effort occurred on these trips). Additionally, hauls with no catch report and species hail weight with discard reason “039” (“previously discarded”) were excluded.

The same broad stratification scheme used in SBRM analyses was employed in this analysis, in which trips were partitioned into fleets using six classification variables: calendar quarter, geographic region, gear type, mesh, access area, and trip category. Calendar quarter was based on landed date and used to capture seasonal variations in fishing activity and discard rates. Two broad geographical regions were defined: New England (NE) and Mid-Atlantic (MA) based on port of departure<sup>5</sup>; ports from Maine to Rhode Island constituted the NE region, and ports in states from Connecticut southward constituted the MA region. Gear type was based on Northeast gear codes (*negear*). Some gear codes were combined: sink, anchored, and drift gillnets, and single and paired mid-water trawls. Trips for which gear was unknown were excluded. Mesh size

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<sup>3</sup> There were 3,124 At-Sea Monitoring Program (ASM) trips associated with NE handline, longline, otter trawl, and gillnet fleets during July 2011 through June 2012. A comparison of discard rates derived from observer and at-sea monitor data in 2010 and 2011 revealed there were generally no statistical differences in discard rates between the two data collection programs for the 18 fish species for four gear types (longline, large mesh otter trawl, large mesh gillnet, and extra large mesh gillnet) where at-sea monitor data exist, hence NEFOP and ASM data were pooled. See Northeast Fisheries Observer Program (2011) for more information on ASM. The Atlantic States Marine Fisheries Commission (ASMFC) funded 87 trips during July 2011 through June 2012. A comparison of discard rates derived from NEFOP-allocated and ASMFC-allocated trips reveals there were generally similar discard rates for the four fleets where ASMFC-allocated trips exist (MA small and large mesh otter trawl fleets and NE small and large mesh otter trawl fleets), hence these data have been pooled.

<sup>4</sup> Marine Recreational Information Program (MRIP) was implemented in 2012 and supersedes the NOAA Marine Recreational Fisheries Statistics Survey (MRFSS).

<sup>5</sup> Wigley et al. (2007) found that the majority (over 93%) of 2004 observed trips both originated and fished in the same region and exhibited the same general pattern as in the VTR data. An updated analysis using data collected during July 2007 through June 2011 found similar results (Wigley et al. 2012a).

groups were formed for otter trawl and gillnet gear types. For otter trawls, two mesh groups were formed: small (mesh less than 5.5 inches) and large (5.5 inch mesh and greater). For gillnets, three mesh groups were formed: small (mesh less than 5.5 inches), large (mesh between 5.5 and 7.99 inches), and extra large (mesh 8 inches and greater). Two access area categories were formed: access area (AA) and open (OPEN). The sea scallop fishery was divided into General (GEN) and Limited (LIM) category trips. All other fisheries were combined into a category called “all.”

Stratification abbreviations used are given below.

Abbreviation	Definition
MA	Mid-Atlantic ports (CT and southward)
NE	New England ports (RI and northward)
sm	Small mesh (less than 5.5 inches)
lg	Large mesh (5.5 to 7.99 inches)
xlg	Extra large mesh (8 inches and greater)
LIM	Limited access category
GEN	General category
OPEN	Non-access area
AA	Access area

The VTR data are used as a basis for defining the sampling frame, since all federally permitted vessels are required to file a VTR for each fishing trip (See NMFS-Northeast Regional Office [http://www.nero.noaa.gov/ro/fso/vtr\\_inst.pdf](http://www.nero.noaa.gov/ro/fso/vtr_inst.pdf) ). These self-reported data<sup>6</sup> constitute the basis of the fishing activity of the commercial fleets. Because Dealer data do not contain mesh size and area fished information, the Dealer data could not be used to expand discard ratios by fleet for the annual analyses. The VTR data were used as a surrogate for Dealer data and were used to expand the NEFOP discard ratios to total discards. For this analysis, the commercial VTR trips (excluding NY state [non-federal] vessels) were used. Conversion factors were applied to convert various units of measure to pounds and all weight to live weight. VTR trip data were collapsed into fleets as defined above. Trips participating in the US/Canada access area, B-day category programs and other special access programs could not be identified in the VTR data. These trips have been grouped by the other stratification variables and have not been partitioned separately.

The clam fishery has a separate logbook system from the VTR logbook. The commercial clam logbook data were used to augment the VTR data for the clam dredge fishery. The commercial and recreational landings (in live weight) for the federally managed species were used only in sample size analysis.

A list of the 14 federally managed fish and invertebrate species groups analyzed, and the individual species that comprise each species group, is given in Table 1. Summaries of the data used, in terms of number of trips and number of sea days, by fleet, calendar quarter, and data source (NEFOP and VTR), are given in Tables 2 and 3, respectively.

The spatial and temporal patterns of observer coverage within a fleet were evaluated. Rather than use a trip-based metric, the kept weight of all species reported in the VTR was used.

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<sup>6</sup> See Wigley et al. 2007 for more details on self-reported VTR data.

The “kept weight with observer coverage” was derived as the kept weight of all species reported in the VTR summed by fleet, statistical area, and quarter where at least one observed trip occurred in the fleet-quarter-statistical area cell and at least three observed trips<sup>7</sup> occurred in the fleet-quarter stratum. The “kept weight” was derived as the kept weight of all species reported in the VTR summed over all statistical areas and quarters within a fleet. The percentages of “kept weight with observer coverage” were calculated by dividing the “kept weight with observer coverage” by the “kept weight.” These percentages were derived for the 56 fleets (reported as 51 individual fleets and the five confidential fleets combined into “Confidential fleets”), “Other minor fleets” (that include the ten observed twin trawl trips), and all fleets combined. Additionally, as a relative measure of fleet activity among all fleets, the percentage of “kept weight” was derived by dividing the “kept weight” by the sum of the “kept weight” across all fleets.

## Discard Estimation

Total discards of each of the 14 federally managed species groups were estimated for the July 2011 through June 2012 time period using a combined discard/kept ( $d/k$ ) ratio estimator (Cochran 1963), where  $d$  = discarded pounds of a given species group, and  $k$  = the kept pounds of all species. Total discards (in weight) were derived by multiplying the estimated discard rate of each fleet by the corresponding fleet landings in the VTR database, and then summing over fleets.

Simple imputation methods were used to fill quarterly cells for which there were one or no observed trips. Data from adjoining strata were pooled to impute estimates for cells with zero or one trip. In this imputation only the temporal stratification, calendar quarter, was relaxed to an annual aggregation recognizing that seasonal variation can occur for some species. This simple imputation could not be applied to fleets where observer coverage was low or missing throughout the year (i.e., too few data to support the simple imputation approach). In these cases, imputed values were not used, and the fleet was designated as a fleet in need of pilot coverage<sup>8</sup>. If some data were available, then discard estimates were derived, but these results were not used in sample size analyses.

The variances of the discard estimates were also derived. In this document, CV is defined as the ratio of the standard error of the total discards divided by the total discards. The appendix presents the equations used in the analysis.

For each species/species group and fleet, the landings from the VTR and clam logbook are presented to provide perspective for the discard estimates.

## Discard Reasons

For each species group and fleet, the fish dispositions associated with discarding (as reported by the at-sea observer) have been grouped into the following six discard reason categories: no market, regulation (size), regulation (quota), regulation (other), poor quality, and other. The discard reason categories and the associated fish dispositions are summarized in

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<sup>7</sup> The three trips for fleet-quarter correspond with a minimum threshold for allocating observer coverage.

<sup>8</sup> Pilot coverage is defined as a minimum level of observer coverage necessary to acquire bycatch information with which to calculate variance estimates that in turn can be used to further define the level of sampling needed (NMFS 2004).

Appendix Table 2. The discard reasons “No Market” and “Poor Quality” would be considered economic discards and not regulatory discards.

The observed (non-extrapolated) discards associated with each of the six discard reason categories were summed for each species group/species for the fleets where discards could be estimated. For individual fleets, the percentage of observed discards by discard reason category was derived by dividing the sum of the observed discards for each discard reason category by the sum of the total observed discards for each species group/species and fleet. The discard reason category percentages were taken from the observed discard reason category percentages. For the “Other fleets filtered out” (an aggregated fleet that represents fleets where the variance of the discard estimate was not used in the annual sample size analysis), the observed discard reason category percentages were then multiplied by the total estimated (extrapolated) discards for each species group/species and fleet to derive the estimated discards by discard reason category for each species group/species and fleet for each of the fleets associated with the aggregated fleet. For each “Other fleets filtered out,” the total estimated discards by discard reason category were summed over the fleets that comprise the fleet aggregation for each species group/species. The estimated discard reason category percentage was derived by dividing the estimated discards for each discard reason category by the sum of the total estimated discards for each species group/species and fleet. In other words, the “Other fleets filtered out” represents the weighted percentage where the weighting factor was the fleet extrapolated discards.

## Sample Size Analysis

The sample size analysis (also referred to as sea day analysis) was conducted to estimate the number of baseline trips and sea days needed to monitor the 14 federally managed species groups in each fleet. As described in Wigley et al. 2007 (and given in the appendix), the number of trips and sea days needed to achieve a given precision level was based on the variance of the total discard estimate for a species group. Sample size (trips and sea days) associated with the precision standard for discard estimates (30% CV) were derived. The sample size analysis was performed using trips as the sampling unit, and then converting the number of trips to sea days by multiplying by the weighted mean trip length, where the weighting factor was the quarterly number of VTR trips. The percentage of trips was derived by dividing the number of trips needed by the number of VTR trips that occurred in the fleet.

When total discards could not be estimated due to little or no observer coverage (no data), or when total discards were zero (no variance), the sample size (number of trips) was determined using a pilot coverage level set to 2% of the quarterly VTR trips for a fleet, with a minimum of three trips per quarter (12 trips per year) and a maximum of 100 trips per quarter (400 trips per year). The 2% pilot coverage was the same as was used in the 2012 sea day analysis (Wigley et al. 2012b) and the SBRM analyses (Wigley et al. 2007; Wigley et al. 2011). The quarterly trips were then multiplied by the quarterly mean VTR trip length to derive quarterly sea days. The quarterly trips and quarterly sea days were then summed for annual number of trips and sea days. It is recognized that pilot coverage may result in too much coverage in cases where little or no observer coverage may actually be needed or when effort changes sharply between years.

Some fleet/species combinations contribute very little to the total mortality or discard of the species, but may require significant resources to characterize the precision of the estimate. For example, a high variance estimate for a rare event within a fleet would require high levels of sampling, even though the total discard in that fleet was unimportant with respect to either the total discard or total mortality on the resource. To address this, a modification of the filtering

approach developed for SBRM was employed. Similar to the SBRM analyses (Wigley et al. 2007), importance filters were used to provide a standardized protocol to further refine the number of baseline sea days based on: (a) the importance of the discarded species relative to the total amount of discards by a fleet, and (b) the total fishing mortality due to the discards. In the SBRM analyses, the importance filter was comprised of three filters (i.e., unlikely cell filter, fraction of discard filter, and fraction of total mortality due to discards filter) that were applied simultaneously. However, based on an evaluation of the use of the unlikely filter over a three-year period, it was found that no substantive changes in the determination of sea days would have resulted had the unlikely filter been removed from the importance filter (Wigley et al. 2012a). Thus, in this analysis, all cells in the unlikely filter were set to 1 (all cells are likely; this is equivalent to removing the unlikely filter from the importance filter).

The 2013 baseline sea days were filtered using a 95% cut-point in the discard filter, and a 98% cut-point for the total mortality filter due to discards. In other words, estimates of sea day coverage for a given species or species group were derived for those fleets where discards constituted 95% of the discard mortality and catch constituted 98% of the total mortality.

To determine the number of sea days (referred to as the “2013 sea days needed”) and trips needed to achieve a 30% CV on the estimates of discards for each of the 14 species groups within a fleet, the maximum number of sea days for the 14 species groups (i.e., the maximum number of sea days in a row) was used. This ensures that all species groups will have a 30% CV or less. In the event that sea days for each species group within a fleet are filtered out, then the number of sea days for the fleet was based on minimum pilot days to maintain monitoring coverage for that fleet. Minimum pilot coverage represents a minimum threshold for the allocation of sea days and is defined as three trips per quarter for each quarter with industry activity. The quarterly number of trips are multiplied by the quarterly mean VTR trip length and then summed over quarters to derive the annual minimum pilot days for the fleet. These fleets are indicated with a “MPC.”

If the fleet was designated as a pilot fleet, then pilot sea days were used. These fleets are indicated with a “P.” The fleets with sufficient data to estimate sample size are referred to as non-pilot fleets.

## RESULTS

There were 56 fleets uniquely identified during the July 2011 through June 2012 period (Tables 2 and 3; Appendix Table 1). Based upon the industry activity during this time period, the MA Danish seine fleet (Row 38) was added to the collection of fleets analyzed (fleets that have not been included in previous analyses are indicated with a “+”). The other minor fleets not uniquely identified in this analysis have been aggregated into a single fleet labeled “Other minor fleets.” Due to confidentiality rules, the landings associated with 5 unique fleets (MA GEN Access area scallop trawl [Row 10], MA large mesh haddock separator trawl [Row 16], MA floating trap [Row 20], MA Danish seine [Row 38], and MA hagfish pots and traps [Row 45]) have been aggregated into a single fleet labeled “Confidential fleets” for reporting purposes. Hence, the fleet row numbers within Tables 2 and 3 are sequential, while the fleet row numbers in Tables 4 through 7 are ordered but there are gaps in the row numbers.

Of the 56 fleets examined, 34 fleets had little or no observer data: eight fleets had sparse observer data across all quarters, while 26 fleets were missing observer data in all quarterly cells. The fleets with no observer coverage were primarily pot and trap fisheries targeting particular

species (e.g., lobster, crab, conch, shrimp, and hagfish). No discard estimation was performed for the 26 fleets with no observer coverage and they were designated as fleets in need of pilot coverage (Tables 2 and 3). The eight fleets with sparse observer coverage were also designated as fleets in need of pilot coverage for the sample size analysis; however, discard estimation was performed using the sparse observer data. For the 22 remaining fleets (designated as non-pilot fleets), estimates of discards and their associated variance were derived and used to determine the sample sizes needed for a 30% CV. Of the 22 fleets, there were six fleets (Rows 19, 23, 24, 30, 34, and 35) where the simple imputation was applied.

Thus, for the discard estimation and precision analysis, 26 fleets had no discard estimation and 30 fleets had discards estimated. For the sample size analysis, 22 fleets had sample sizes derived from the discard variances and 34 fleets had sample sizes based upon pilot coverage.

A total of 5,155 trips (14,738 days) was observed during July 2011 through July 2012. When these trips were stratified, some trips were partitioned between strata resulting in 5,613 trips (15,622 days; Tables 2 and 3) in the NEFOP. The number of trips and days do not include ten observed twin trawl trips in the MA and NE twin trawl fleets due to only two reported VTR trips for the MA twin trawl fleet and no trips reported for the NE twin trawl fleet. The information for these two fleets has been aggregated into “Other minor fleets.” The apparent misreporting of gear types is further described in the discussion section of this report.

In terms of number of trips, the percentages of observed trips varied by fleet and calendar quarter. On an annual basis, for the 30 fleets with some observer coverage, the percentage of observed trips by fleet ranged between 0.01% (NE lobster pot fleet, Row 49) to 50% (MA AA LIM scallop trawl fleet, Row 10; Table 2). For the 22 non-pilot fleets, the percentage of observed trips ranged between 0.6% (MA large mesh gillnet fleet, Row 23) and 30% (NE mid-water trawl fleet, Row 40). Over all fleets, the percentage of observed trips was 5.6% (Table 2).

In terms of kept weight of all species, the percentage of observer coverage over all fleets was 56% (Table 4). For the 21 non-pilot fleets (excluding the one non-pilot confidential fleet aggregated into “Confidential fleets”), the percentage of observer coverage ranged between 34% and 99% (Table 4) with 18 of the 21 fleets having a percentage greater than or equal to 75% . This indicates that the majority of kept weight within the fleet was associated with statistical areas and quarters with observer coverage. Additionally, these 18 fleets comprised approximately 60% of the total kept weight across all fleets. The kept weight of all species was considered a surrogate for fishing effort and hence observer coverage spatially and temporally occurred where the majority of fishing effort occurred.

The combined fleet “Other minor fleets” had a percentage of observer coverage greater than zero due to the ten observed twin trawl trips that were not uniquely identified to a fleet. The landings associated with this combined fleet contributed less than 0.1% of the total landings across all fleets (Table 4).

Annual VTR landings and estimated discards (live pounds) with associated precision are summarized for 51 individual fleets (Rows 1-9, 11-15, 17-19, 21-37, 39-44, 46-56) and two combined fleets (“Confidential fleets,” and “Other minor fleets” [with landings only] for each of the 14 species groups and the individual species that comprised those species groups (Tables 5A and 5B; Figures 1A and 1B). There were 23 fleets (Rows 1, 3, 13-14, 18, 21, 25, 28, 39, 41-44, 46-48, and 50-56) as well as the “Other minor fleets” that have no discard estimation due to no NEFOP coverage (dark shaded fleets in Tables 5A and 5B). In Table 5A, the CVs associated with the cells (species group and fleet) that were not used in the sample size analysis (i.e., cells

filtered out via the importance filter) are indicated in light shading. Precision of discards of individual species (Table 5B) were not used in the sample size analysis.

Based upon this analysis, 69,039 mt (152,203,992 pounds; live weight) of discards for the 14 species groups occurred during the July 2011 through June 2012 period. The majority (79%) of the discards were comprised of three species groups: skates (52%), dogfish (15%), and scallops (12%); the remaining species groups each accounted for less than or equal to 5% (Table 5A).

The percentage of discards to total catch varied among the 14 species groups (Table 5A; Figure 1A) and individual species (Table 5B; Figure 1B). There was one species group (SAL) with zero discards (this species group is not presented in Figure 1A); two species groups (HERR and SCOQ) where discards were less than 1% total catch; four species groups (RCRAB, SCAL, SBM, and TILE) where percentages of discards ranged between 1% and 10% of total catch; three species groups (BLUE, FSB, and GFL) where discards ranged between 11% and 25% of total catch; and four species groups (MONK, SKATE, GFS, and DOG) where discards were greater than 26% of total catch. The species groups with the highest percentage of total discards relative to total catch were: skates (69%), dogfish (63%), and monkfish (30%; Figure 1A). For individual species, most notable are the high percentages of discards to total catch of wolffish (>99%), ocean pout (>99%) and windowpane flounder (97%) due to the no possession regulations for these three species.

The reasons for discarding varied among the 14 species groups (Appendix Table 3A) and individual species (Appendix Table 3B). Overall, for the 14 species groups, the majority (72%) of discards occurred due to “No Market.” “Regulation” (due to size, quota, and other), “Poor Quality,” and “Other” contributed 22%, 4%, and 2%, respectively (Appendix Table 3A).

The percentages of discard to total catch were also summarized by fleet for 22 fleets (the non-pilot fleets; Figure 2). Discards of one or more of the 14 species groups that were filtered out via the importance filter have been aggregated into a species group labeled “Other FMP.” Discards of non-federally managed species have been aggregated into a species group labeled “Non-FMP.” The percentages of discard to total catch varied by fleet (Figure 2). There was two fleets (Rows 29 and 40) where discards were less than 1% of the total catch in the fleet; two fleets (Rows 4 and 35) where the percentages of discards ranged between 1% and 10%; 12 fleets (Rows 2, 7, 17, 19, 23-24, 27, 30, 32-33, and 36-37) where the percentages of discards ranged between 11% and 25% of total catch; four fleets (Rows 5, 8, 26, and 34) where the percentages of discards ranged between 26% and 50% of the total catch; and two fleets (Rows 6 and 16) where discards were greater than 50% of the total catch.

The number of species groups discarded within a fleet also varied among fleets. The majority of fleets (12 of the 22 fleets) were comprised of two or three discarded species groups. For six of these fleets (Rows 4, 16, 17, 24, 35, and 40), the “Other FMP” species group comprised the majority of the discards. This indicates that the majority of discards were filtered out via the importance filter. There were three fleets (Rows 29, 30, and 34) for which the “Non-FMP” species group comprised the majority of the discards. There were another three fleets where two of the three discarded species groups were “Other FMP” and “Non-FMP” and the other was the dominant species group of dogfish (Rows 2 and 23) and small mesh groundfish (Row 19).

The remaining fleets (10 of the 22 fleets) had between four and ten discarded species groups. The skate species group dominated the discards in four of these fleets (Rows 5, 6, 8, and 27) while “Non-FMP” species group dominated the discards in three fleets (Rows 32, 36, and

37). Three fleets (Rows 7, 26, and 33) had a mix of dominant discarded species groups that included small mesh groundfish, dogfish, and scallops.

The dominant “Non-FMP” species in the scallop dredge fleets (Rows 30, 32, 34, 36, and 37) were: sand dollar, sponge, and starfish. “Fish, not known” was the dominant “Non-FMP” species in the NE purse seine fleet (Row 29).

The precision of the discard estimates varied by species group and fleet (Table 5A). Of the 14 species groups, 10 species groups had an overall CV that was less than 30%, three species groups (BLUE, SCOQ, and TILE) had an overall CV that was greater than 30% CV, and one species group (SAL) had zero discards and consequently no CV. The discards of four species groups (BLUE, HERR, SCOQ, and TILE) were filtered out in all fleets indicating the discards of these species groups were a minor component of the total catch of these species (Table 5A; Figure 1A). The precision of the discard estimates for individual species are given in Table 5B; these were not used in the sample size analysis.

The numbers of sea days needed for each species group and fleet, as well of the number of pilot coverage days, minimum pilot coverage days, and the sea days needed for the fleet (referred to as “2013 Sea Days Needed”), are summarized in Table 6. A total of 11,499 days are needed for all fleets. As mentioned previously, 34 fleets had insufficient observer information to estimate discards and the sea days for these fleets were based on pilot coverage days. The number of sea days needed for fleets with the pilot coverage designation was 1,643 days (14% of 11,499; Table 6). There are eight fleets for which the sea days for all species groups were filtered out via the importance filter, and minimum pilot coverage days were used to maintain some coverage (Rows 4, 16, 17, 29, 30, 34, 35, and 40; Table 6). The sea days associated with these fleets was 238 days (2% of 11,499; Table 6). Of these eight fleets, there were two fleets (Rows 16 and 17) where pilot days equaled minimum pilot days, a result of low industry activity in these fleets. The sea days needed for the remaining 14 fleets (9,618 days, representing 84% of the total sea days needed) were derived using the variance of the discard estimate (Table 6). Of the 9,618 days, 6,698 days (70%) were associated with two fleets (Rows 5 and 8; Table 6).

The sample size (in terms of number of sea days, number of trips, and percentage of trips based upon the VTR trips in July 2011 through June 2012) needed to achieve a 30% CV of the discard estimate in these 14 fleets is given in Table 7. The relationship between sample size and precision, over a range of sample sizes, is shown in Figure 3 for species groups and fleets. If the precision standard (30% CV) was relaxed for the red crab species group in two fleets (Rows 5 and 8), resulting in the penultimate (next largest) value being used in each of the two fleets (e.g., using 583 days rather than 1,408 days for Row 5 and 496 days rather than 5,290 days for Row 8), then the total number of sea days needed across all fleets would be 3,999 days (a 65% decrease from the 11,499 days). Using the penultimate value, the expected achieved precision of red crab discards in Rows 5 and 8 would be 53% CV and 113% CV, respectively.

## DISCUSSION

A broad stratification was used to support the deployment of observers on commercial fishing trips among various fleets using attributes known prior to the trip departure. As discussed in previous discard estimation analyses (Wigley et al. 2007; Wigley et al. 2011), species-specific stock assessment discard estimation may differ from this report due to differences in stratification and data used (calendar year versus 12-month [July to June] time period; area fished versus region [port of departure]; and VTR landings versus Dealer landings). Region,

based on port of departure, was used for the deployment observers. It is recognized that area fished would provide a better stratification for discard estimation. It is expected, however, that estimates would be in the same order of magnitude. The discard estimates presented here are not definitive estimates, but rather are indicative of where discarding occurred among the commercial fleets for the 14 federally managed species groups.

We have assumed 100% discard mortality, i.e., we do not account for potential survival of organisms returned to the water. When comparing discard estimates from this study with those from stock assessments, it is usefully to note that survival ratios are applied in stock assessments for Georges Bank and Gulf of Maine stocks of cod, Atlantic sea scallop, spiny dogfish, summer flounder, southern New England and Gulf of Maine stocks of winter flounder, and southern New England yellowtail flounder.

These analyses have used VTR data. Dealer (*CFDETSyyyy*) data do not contain mesh or area fished information until the trip-based allocation is performed (Wigley et al. 2008). The trip-based allocation of Dealer (*CFDETT/SyyyyAA*) data is conducted annually and was not available when this analysis was initiated. Given that the VTR landings estimates are usually less (VTR reports the good faith hauls) than the dealer records for a given fleet, the corresponding estimates of discards will also be underestimated. The magnitude of the underestimation will vary by fleet and year.

During the data preparation for these analyses, some possible misreported gear types were encountered. Some of the possible misreporting was associated with the seasonal switch between fishing for groundfish and shrimp. For example, captains reported using a shrimp trawl (“OTS”) with 6.5 inch mesh catching groundfish (in these cases, one would expect “OTF,” otter trawl fish). And conversely, captains reported “OTF” with 1 7/8 inch mesh catching shrimp (in these cases, one would expect “OTS”). Generally, there are only a few trips with these possible reporting errors.

There also appeared to be some confusion in the proper use of the VTR gear code “OTS” (shrimp trawl), “OTT” (twin trawl), “OTC” (scallop trawl), and “OTF” (otter trawl). Some of the “OTS” trips have either squid or scallops as the predominant species reported (no shrimp reported) and it is not certain whether or not these trips used a shrimp trawl, scallop trawl, otter trawl, or twin trawl. Regarding the twin trawls trips, there were only 2 VTR trips that reported using twin trawl (VTR gear code “OTT”) yet there were ten observed twin trawl trips that occurred during July 2011 through June 2012. When these ten observed trips were mapped back to the VTR data, it was found that the captains had reported “OTF” (otter trawl, bottom, fish) and hauled two nets. Due to this misreporting of twin trawl, the twin trawl fleet could not be included in this analysis (observed trips were greater than VTR trips). Caution should be used when interpreting results associated with these gear types as the implications of misreported gear types are variable among fleets and the true magnitude is unknown. Continued outreach and education to industry members emphasizing proper reporting of gear types is a critical need as well as improved data quality and data accuracy of the VTR data.

Since the northern shrimp fishery is closed during the calendar quarter 3, the VTR trips associated with NE shrimp trawl fleet (Row 19, Qtr 3; Tables 2 and 3) were investigated. These trips reported catching herring using 2 inch mesh while a few trips reported catching squid. The captains of these vessels indicated that a finfish excluder device (FED) was not used. The northern shrimp fishery requires a FED; however, other small mesh exempted fisheries do not require a FED. Currently, there is not a data element within the VTR database that indicates whether or not a FED, or other bycatch reduction device, was used. Due to this limitation, the

trips within the NE shrimp trawl fleet (Row 19) represent trips using shrimp trawl with and without a FED. An additional data element within the VTR database would be needed to partition these trips into separate fleets.

The analysis conducted for the spatial and temporal observer coverage used live weight. As a result, fleets using scallop dredge and clam dredge targeting species with shells have higher kept weight percentage than other fleets due the use of “live” weight rather than “landed meat” weight. However, the use of live weight does not distort the observed percentage (spatial or temporal pattern) within a fleet. It is important to remember that percent observer coverage is an indicator of where observed kept weight (or trips) occurred relative to unobserved kept weight (or trips). The percentage observed should not be confused with the precision of the discard estimate which is the metric used to describe discard variability and determine the sample size needed for monitoring purposes.

The use of minimum pilot coverage represents a refinement over previous years’ analyses when pilot coverage was used. As depicted in Figure 4 of Wigley et al. 2012a, there were two cases in which pilot coverage had been invoked in the sample size analysis: (1) insufficient or no NEFOP data (no discard information is available), and (2) when all sea days were filtered out (discard information is available and discards found to be low relative to other fleets). By utilizing the minimum pilot coverage, the numbers of trips needed to monitor the fleet in the upcoming year are based upon the information obtained via the data analysis. It is important to note that in most cases, there are only minor differences in the number of the pilot days versus the minimum pilot days due to the low number of industry trips in the fleets where all species are filtered out. Thus, the use of minimum pilot coverage represents only a minor refinement in the sea day analysis.

There are two fleets with high sea day requirements (>1,400 sea days). The NEFOP data associated with the trips within these fleets were reviewed to rule out any data “irregularities.” The high monitoring coverage for New England large mesh and Mid-Atlantic small mesh otter trawl fleets (Rows 5 and 8; Table 6) was due to high variability of red crab discards. In this analysis, as well as in previous analyses (NEFSC 2011a; NEFSC 2011b; Wigley et al. 2011; Wigley et al. 2012b), the high variability arose from observing some trips that were fishing in deep-water portions of statistical areas as well as observing other trips that were fishing in shallower portions of the same statistical areas. Red crabs were encountered during trips fishing in deep water. Although the discard reason reported for three fleets was “No Market” (Appendix Table 3A), these vessels do not generally have permits to land red crabs, thus the red crabs must be discarded. Currently, the analysis does not stratify these fleets further to account for depth because statistical area is the finest spatial resolution that defines a subtrip within the Vessel Trip Report (a subtrip within the VTR is a unique gear, mesh, and statistical area). While depth is a data element in the VTR, depth is not always reported and there are few QA/QC checks on this data element.

Fish may be discarded for economic reasons (e.g., “No Market” or “Poor Quality”) or for regulatory reasons (size, quota, or other). When considering mechanisms to reduce discards, it may be useful to know why discarding is occurring. It is important to note that large discard percentages may be associated with a small quantity of discards. Additionally, it is important to note that for many species, the discards are associated with fleets that have been filtered out by the importance filter. Observers classify the discards by fish disposition based upon the NEFOP protocol (NEFOP 2010; NEFOP 2011) in which the observer asks the captain/crew why species

are being discarded. Thus, these data should be considered a form of self-reported data and as such these data are difficult to verify and should be interpreted cautiously.

This analysis does not address the coverage needed for individual sectors or multiple stock components of a species. The analytical basis for the allocation of future sea day coverage in this analysis is a specified level of precision (i.e., 30% CV) and an expectation that the pattern of fishing activity observed in the prior year will be similar to that in the upcoming year.

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**Table 1. List of the 14 fish and invertebrate species groups (in bold), with species group abbreviations in parentheses, and the species that comprise these groups, corresponding to the 13 federal fishery management plans in the Northeast region.**

<b>ATLANTIC SALMON (SAL)</b>
<b>BLUEFISH (BLUE)</b>
<b>FLUKE - SCUP - BLACK SEA BASS (FSB)</b>
Black Sea Bass
Fluke
Scup
<b>HERRING, ATLANTIC (HERR)</b>
<b>LARGE MESH GROUND FISH (GFL)</b>
American Plaice
Atlantic Cod
Atlantic Halibut
Atlantic Wolffish
Haddock
Ocean Pout
Pollock
Redfish
White Hake
Windowpane Flounder
Winter Flounder
Witch Flounder
Yellowtail Flounder
<b>MONKFISH (MONK)</b>
<b>RED CRAB (RCRAB)</b>
<b>SEA SCALLOP (SCAL)</b>
<b>SKATE COMPLEX (SKATE)</b>
Barndoor Skate
Clearnose Skate
Little Skate
Rosette Skate
Smooth Skate
Thorny Skate
Winter Skate
<b>SMALL MESH GROUND FISH (GFS)</b>
Offshore Hake
Red Hake
Silver Hake
<b>SPINY DOGFISH (DOG)</b>
<b>SQUID<sup>9</sup> - BUTTERFISH - MACKEREL (SBM)</b>
Atlantic Mackerel
Butterfish
Illex Squid
Loligo Squid
<b>SURFCLAM - OCEAN QUAHOG (SCOQ)<sup>10</sup></b>
Surfclam
Ocean Quahog
<b>TILEFISH (TILE)</b>

<sup>9</sup> Squid, unclassified is included in this species group.

<sup>10</sup> In this analysis, surfclams and ocean quahogs comprise the species group and are not reported separately.

**Table 2. Number of Northeast Fisheries Observer Program (NEFOP) and Vessel Trip Report (VTR) trips, by fleet<sup>11</sup> and calendar quarter (Q) from July 2011 through June 2012. “P” indicates fleets with “pilot” designation.**

Row	Gear Type	Access Area	Trip Category	Region	Mesh	NEFOP					VTR					Pilot
						Q3	Q4	Q1	Q2	TOTAL	Q3	Q4	Q1	Q2	TOTAL	
1	Longline	OPEN	all	MA	all	.	.	.	.	.	25	45	31	33	134	P
2	Longline	OPEN	all	NE	all	35	6	68	39	148	454	87	308	212	1,061	
3	Hand Line	OPEN	all	MA	all	.	.	.	.	.	1,665	987	248	1,002	3,902	P
4	Hand Line	OPEN	all	NE	all	26	8	17	11	62	1,510	276	124	582	2,492	
5	Otter Trawl	OPEN	all	MA	sm	67	77	67	19	230	1,087	746	507	1,115	3,455	
6	Otter Trawl	OPEN	all	MA	lg	41	56	46	13	156	1,801	1,356	1,083	1,520	5,760	
7	Otter Trawl	OPEN	all	NE	sm	76	52	34	39	201	1,110	742	464	1,062	3,378	
8	Otter Trawl	OPEN	all	NE	lg	338	470	539	341	1,688	2,558	1,995	1,849	1,918	8,320	
9	Scallop Trawl	AA	GEN	MA	all	1	2	2	.	5	3	24	2	7	36	P
10	Scallop Trawl	AA	LIM	MA	all	.	1	.	.	1	.	2	.	.	2	P
11	Scallop Trawl	OPEN	GEN	MA	all	1	.	7	.	8	241	39	63	155	498	P
12	Scallop Trawl	OPEN	LIM	MA	all	1	.	.	.	1	8	5	12	8	33	P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	.	.	.	.	.	6	3	7	6	22	P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	.	.	.	.	.	10	1	3	.	14	P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	.	1	2	1	4	3	4	7	12	26	P
16	Otter Trawl, Haddock Separator	OPEN	all	MA	lg	.	.	4	.	4	.	.	15	.	15	
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	11	10	8	2	31	32	34	25	30	121	
18	Shrimp Trawl	OPEN	all	MA	all	.	.	.	.	.	196	4	.	34	234	P
19	Shrimp Trawl	OPEN	all	NE	all	.	.	19	.	19	108	17	1,286	65	1,476	
20	Floating Trap	OPEN	all	MA	all	.	.	.	.	.	23	.	1	42	66	P
21	Floating Trap	OPEN	all	NE	all	.	.	.	.	.	33	1	.	60	94	P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	2	2	.	.	4	810	566	408	228	2,012	P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	4	6	3	.	13	399	1,089	378	287	2,153	
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlg	.	17	7	53	77	168	799	536	1,359	2,862	
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	.	.	.	.	.	5	1	.	2	8	P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	682	388	287	233	1,590	3,092	1,498	753	1,048	6,391	
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlg	370	137	39	192	738	1,269	742	417	1,088	3,516	
28	Purse Seine	OPEN	all	MA	all	.	.	.	.	.	241	34	.	120	395	P
29	Purse Seine	OPEN	all	NE	all	28	3	.	7	38	196	41	.	32	269	
30	Scallop Dredge	AA	GEN	MA	all	9	18	7	.	34	284	210	58	18	570	
31	Scallop Dredge	AA	GEN	NE	all	2	.	.	1	3	7	4	.	10	21	P
32	Scallop Dredge	AA	LIM	MA	all	12	14	28	29	83	182	131	142	192	647	
33	Scallop Dredge	AA	LIM	NE	all	53	24	21	26	124	316	140	117	155	728	
34	Scallop Dredge	OPEN	GEN	MA	all	12	7	1	2	22	653	414	540	801	2,408	
35	Scallop Dredge	OPEN	GEN	NE	all	22	6	.	13	41	832	590	885	1,211	3,518	
36	Scallop Dredge	OPEN	LIM	MA	all	5	10	8	35	58	162	78	99	253	592	
37	Scallop Dredge	OPEN	LIM	NE	all	15	7	14	48	84	343	138	118	403	1,002	
38 +	Danish Seine	OPEN	all	MA	all	.	.	.	.	.	85	6	1	73	165	P
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	.	.	.	.	.	.	.	15	.	15	P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	59	23	30	32	144	158	81	188	51	478	
41	Pots and Traps, Fish	OPEN	all	MA	all	.	.	.	.	.	405	304	85	348	1,142	P
42	Pots and Traps, Fish	OPEN	all	NE	all	.	.	.	.	.	573	95	1	269	938	P
43	Pots and Traps, Conch	OPEN	all	MA	all	.	.	.	.	.	161	564	204	265	1,194	P
44	Pots and Traps, Conch	OPEN	all	NE	all	.	.	.	.	.	460	446	11	382	1,299	P
45	Pots and Traps, Hagfish	OPEN	all	MA	all	.	.	.	.	.	.	3	.	1	4	P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	.	.	.	.	.	13	12	6	24	55	P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	.	.	.	.	.	5	.	55	.	60	P
48	Pots and Traps, Lobster	OPEN	all	MA	all	.	.	.	.	.	1,029	462	265	713	2,469	P
49	Pots and Traps, Lobster	OPEN	all	NE	all	.	.	.	2	2	12,679	8,943	2,294	5,878	29,794	P
50	Pots and Traps, Crab	OPEN	all	MA	all	.	.	.	.	.	4	20	10	35	69	P
51	Pots and Traps, Crab	OPEN	all	NE	all	.	.	.	.	.	46	28	15	8	97	P
52	Beam Trawl	OPEN	all	MA	all	.	.	.	.	.	48	32	22	45	147	P
53	Beam Trawl	OPEN	all	NE	all	.	.	.	.	.	78	10	15	37	140	P
54	Dredge, Other	OPEN	all	MA	all	.	.	.	.	.	.	53	106	11	170	P
55	Ocean Quahog/Surflclam Dredge	OPEN	all	MA	all	.	.	.	.	.	558	516	656	536	2,266	P
56	Ocean Quahog/Surflclam Dredge	OPEN	all	NE	all	.	.	.	.	.	706	446	511	654	2,317	P
<b>Total</b>						<b>1,872</b>	<b>1,345</b>	<b>1,258</b>	<b>1,138</b>	<b>5,613</b>	<b>36,840</b>	<b>24,864</b>	<b>14,946</b>	<b>24,400</b>	<b>101,050</b>	

<sup>11</sup> The MA twin trawl and NE twin trawl fleets are not reported in this table. During July 2011 through June 2012, there were eight MA twin trawl trips observed with two corresponding VTR trips and there were two NE twin trawl trips observed with no corresponding VTR trips.

See text for fleet abbreviations.

**Table 3. Number of Northeast Fisheries Observer Program (NEFOP) and Vessel Trip Report (VTR) sea days, by fleet<sup>12</sup> and calendar quarter (Q) from July 2011 through June 2012. "P" indicates fleets with "pilot" designation.**

Row	Gear Type	Access		Region	Mesh	NEFOP					VTR					Pilot
		Area	Trip Category			Q3	Q4	Q1	Q2	TOTAL	Q3	Q4	Q1	Q2	TOTAL	
1	Longline	OPEN	all	MA	all	.	.	.	.	.	124	168	178	180	650	P
2	Longline	OPEN	all	NE	all	41	9	72	43	165	489	128	348	249	1,214	
3	Hand Line	OPEN	all	MA	all	.	.	.	.	.	1,855	1,032	274	1,031	4,192	P
4	Hand Line	OPEN	all	NE	all	27	10	17	24	78	1,804	381	126	592	2,903	
5	Otter Trawl	OPEN	all	MA	sm	175	263	344	39	821	2,354	1,515	1,766	2,080	7,715	
6	Otter Trawl	OPEN	all	MA	lg	68	168	145	28	409	2,649	2,928	4,247	2,436	12,260	
7	Otter Trawl	OPEN	all	NE	sm	261	219	165	93	738	2,815	1,568	1,416	2,708	8,507	
8	Otter Trawl	OPEN	all	NE	lg	1,161	1,767	2,027	960	5,915	5,152	5,757	6,282	5,793	22,984	
9	Scallop Trawl	AA	GEN	MA	all	1	5	2	.	8	3	57	2	7	69	P
10	Scallop Trawl	AA	LIM	MA	all	.	4	.	.	4	.	8	.	.	8	P
11	Scallop Trawl	OPEN	GEN	MA	all	3	.	10	.	13	445	58	108	308	919	P
12	Scallop Trawl	OPEN	LIM	MA	all	5	.	.	.	5	39	40	67	48	194	P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	.	.	.	.	.	7	6	26	18	57	P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	.	.	.	.	.	83	10	19	.	112	P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	.	10	15	8	33	23	33	53	92	201	P
16	Otter Trawl, Haddock Separator	OPEN	all	MA	lg	.	.	4	.	4	.	.	16	.	16	
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	84	87	64	20	255	253	295	227	294	1,069	
18	Shrimp Trawl	OPEN	all	MA	all	.	.	.	.	.	999	48	.	163	1,210	P
19	Shrimp Trawl	OPEN	all	NE	all	.	.	19	.	19	116	17	1,288	73	1,494	
20	Floating Trap	OPEN	all	MA	all	.	.	.	.	.	23	.	1	42	66	P
21	Floating Trap	OPEN	all	NE	all	.	.	.	.	.	33	1	.	60	94	P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	2	2	.	.	4	877	573	417	231	2,098	P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	4	6	3	.	13	434	1,103	434	316	2,287	
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlg	.	18	7	76	101	190	970	662	1,540	3,362	
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	.	.	.	.	.	5	1	.	3	9	P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	810	518	349	300	1,977	3,621	1,884	1,046	1,384	7,935	
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlg	456	172	81	340	1,049	1,469	934	856	1,825	5,084	
28	Purse Seine	OPEN	all	MA	all	.	.	.	.	.	241	34	.	120	395	P
29	Purse Seine	OPEN	all	NE	all	62	7	.	23	92	429	79	.	81	589	
30	Scallop Dredge	AA	GEN	MA	all	12	33	11	.	56	407	354	108	44	913	
31	Scallop Dredge	AA	GEN	NE	all	5	.	.	3	8	20	11	.	21	52	P
32	Scallop Dredge	AA	LIM	MA	all	110	105	246	264	725	1,412	976	1,211	1,753	5,352	
33	Scallop Dredge	AA	LIM	NE	all	413	208	188	228	1,037	2,363	1,159	1,027	1,467	6,016	
34	Scallop Dredge	OPEN	GEN	MA	all	15	12	1	4	32	951	658	853	1,116	3,578	
35	Scallop Dredge	OPEN	GEN	NE	all	24	7	.	13	44	1,110	813	1,184	1,437	4,544	
36	Scallop Dredge	OPEN	LIM	MA	all	49	88	71	375	583	1,390	693	863	2,561	5,507	
37	Scallop Dredge	OPEN	LIM	NE	all	152	63	139	542	896	2,925	1,127	1,160	4,360	9,572	
38 +	Danish Seine	OPEN	all	MA	all	.	.	.	.	.	85	6	3	73	167	P
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	.	.	.	.	.	.	.	78	.	78	P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	231	66	84	139	520	588	205	407	233	1,433	
41	Pots and Traps, Fish	OPEN	all	MA	all	.	.	.	.	.	430	315	98	355	1,198	P
42	Pots and Traps, Fish	OPEN	all	NE	all	.	.	.	.	.	573	95	1	275	944	P
43	Pots and Traps, Conch	OPEN	all	MA	all	.	.	.	.	.	161	571	205	265	1,202	P
44	Pots and Traps, Conch	OPEN	all	NE	all	.	.	.	.	.	461	447	11	382	1,301	P
45	Pots and Traps, Hagfish	OPEN	all	MA	all	.	.	.	.	.	.	3	.	1	4	P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	.	.	.	.	.	95	59	34	116	304	P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	.	.	.	.	.	5	.	55	.	60	P
48	Pots and Traps, Lobster	OPEN	all	MA	all	.	.	.	.	.	1,327	654	374	871	3,226	P
49	Pots and Traps, Lobster	OPEN	all	NE	all	.	.	.	18	18	14,899	10,926	3,848	7,514	37,187	P
50	Pots and Traps, Crab	OPEN	all	MA	all	.	.	.	.	.	4	20	10	37	71	P
51	Pots and Traps, Crab	OPEN	all	NE	all	.	.	.	.	.	212	192	88	65	557	P
52	Beam Trawl	OPEN	all	MA	all	.	.	.	.	.	101	76	47	79	303	P
53	Beam Trawl	OPEN	all	NE	all	.	.	.	.	.	86	12	17	40	155	P
54	Dredge, Other	OPEN	all	MA	all	.	.	.	.	.	.	53	118	18	189	P
55	Ocean Quahog/Surflclam Dredge	OPEN	all	MA	all	.	.	.	.	.	959	1,083	1,317	1,029	4,389	P
56	Ocean Quahog/Surflclam Dredge	OPEN	all	NE	all	.	.	.	.	.	722	492	569	614	2,397	P
<b>Total</b>						<b>4,171</b>	<b>3,847</b>	<b>4,064</b>	<b>3,540</b>	<b>15,622</b>	<b>57,818</b>	<b>40,628</b>	<b>33,545</b>	<b>46,401</b>	<b>178,392</b>	

<sup>12</sup> The MA twin trawl and NE twin trawl fleets are not reported in this table. During July 2011 through June 2012, there were and 36 observed sea days for MA twin trawl fleet with 17 corresponding VTR sea days and there were 20 observed sea days for the NE twin trawl with no corresponding VTR sea days.

See text for fleet abbreviations.

**Table 4. Vessel Trip Report kept weight of all species (live mt), percentage of kept weight of all species across all fleets, kept weight of all species (live mt) with Northeast Fishery Observer Program (NEFOP) coverage from statistical areas and quarters with at least one observed trip and at least three observed trips in the fleet and quarter, and percentage of kept weight of all species with observer coverage, by fleet during July 2011 through June 2012.**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Kept Weight (mt)	Percentage of Kept Weight	Kept Weight with NEFOP coverage (mt)	Percentage of Kept Weight with NEFOP coverage
1	Longline	OPEN	all	MA	all	723	0.1	0	0.0
2	Longline	OPEN	all	NE	all	881	0.1	807	91.6
3	Hand Line	OPEN	all	MA	all	343	<0.1	0	0.0
4	Hand Line	OPEN	all	NE	all	414	0.1	321	77.6
5	Otter Trawl	OPEN	all	MA	sm	18,453	2.7	16,225	87.9
6	Otter Trawl	OPEN	all	MA	lg	8,721	1.3	7,662	87.9
7	Otter Trawl	OPEN	all	NE	sm	26,728	3.9	23,409	87.6
8	Otter Trawl	OPEN	all	NE	lg	32,549	4.7	31,529	96.9
9	Scallop Trawl	AA	GEN	MA	all	77	<0.1	0	0.0
11	Scallop Trawl	OPEN	GEN	MA	all	811	0.1	104	12.9
12	Scallop Trawl	OPEN	LIM	MA	all	334	<0.1	0	0.0
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	32	<0.1	0	0.0
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	211	<0.1	0	0.0
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	143	<0.1	0	0.0
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	901	0.1	686	76.1
18	Shrimp Trawl	OPEN	all	MA	all	551	0.1	0	0.0
19	Shrimp Trawl	OPEN	all	NE	all	1,579	0.2	1,260	79.8
21	Floating Trap	OPEN	all	NE	all	42	<0.1	0	0.0
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	1,804	0.3	0	0.0
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	2,130	0.3	850	39.9
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlg	4,032	0.6	3,018	74.9
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	11	<0.1	0	0.0
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	6,794	1.0	6,380	93.9
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlg	8,304	1.2	8,092	97.4
28	Purse Seine	OPEN	all	MA	all	25,493	3.7	0	0.0
29	Purse Seine	OPEN	all	NE	all	18,962	2.8	17,995	94.9
30	Scallop Dredge	AA	GEN	MA	all	1,530	0.2	1,436	93.8
31	Scallop Dredge	AA	GEN	NE	all	99	<0.1	0	0.0
32	Scallop Dredge	AA	LIM	MA	all	33,664	4.9	31,949	94.9
33	Scallop Dredge	AA	LIM	NE	all	46,008	6.7	45,405	98.7
34	Scallop Dredge	OPEN	GEN	MA	all	4,828	0.7	1,650	34.2
35	Scallop Dredge	OPEN	GEN	NE	all	5,712	0.8	2,512	44.0
36	Scallop Dredge	OPEN	LIM	MA	all	39,494	5.7	32,916	83.3
37	Scallop Dredge	OPEN	LIM	NE	all	86,513	12.6	80,985	93.6
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	1,415	0.2	0	0.0
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	72,603	10.6	71,047	97.9
41	Pots and Traps, Fish	OPEN	all	MA	all	335	<0.1	0	0.0
42	Pots and Traps, Fish	OPEN	all	NE	all	103	<0.1	0	0.0
43	Pots and Traps, Conch	OPEN	all	MA	all	552	0.1	0	0.0

See text for fleet abbreviations.

**Table 4 continued. Vessel Trip Report kept weight of all species (live mt), percentage of kept weight of all species across all fleets, kept weight of all species (live mt) with Northeast Fishery Observer Program (NEFOP) coverage from statistical areas and quarters with at least one observed trip and at least three observed trips in the fleet and quarter, and percentage of kept weight of all species with observer coverage, by fleet during July 2011 through June 2012.**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Kept Weight (mt)	Percentage of Kept Weight	Kept Weight with NEFOP coverage (mt)	Percentage of Kept Weight with NEFOP coverage
44	Pots and Traps, Conch	OPEN	all	NE	all	481	0.1	0	0.0
46	Pots and Traps, Hagfish	OPEN	all	NE	all	429	0.1	0	0.0
47	Pots and Traps, Shrimp	OPEN	all	NE	all	13	<0.1	0	0.0
48	Pots and Traps, Lobster	OPEN	all	MA	all	1,016	0.1	0	0.0
49	Pots and Traps, Lobster	OPEN	all	NE	all	11,012	1.6	0	0.0
50	Pots and Traps, Crab	OPEN	all	MA	all	48	<0.1	0	0.0
51	Pots and Traps, Crab	OPEN	all	NE	all	1,387	0.2	0	0.0
52	Beam Trawl	OPEN	all	MA	all	200	<0.1	0	0.0
53	Beam Trawl	OPEN	all	NE	all	57	<0.1	0	0.0
54	Dredge, Other	OPEN	all	MA	all	57	<0.1	0	0.0
55	Ocean Quahog/Surfc clam Dredge	OPEN	all	MA	all	130,666	19.0	0	0.0
56	Ocean Quahog/Surfc clam Dredge	OPEN	all	NE	all	84,493	12.3	0	0.0
	Confidential fleets					3,359	0.5	9	0.3
	Other minor fleets					340	<0.1	64	18.9
					<b>Total</b>	<b>687,436</b>	<b>100.0</b>	<b>386,311</b>	<b>56.2</b>

See text for fleet abbreviations.

**Table 5A. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 14 fish and invertebrate species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. Light shading indicates that the variance of the discard estimate was not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**  
**Species Group: ATLANTIC SALMON**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
1	Longline	OPEN	all	MA	all	0	0			P
2	Longline	OPEN	all	NE	all	0	0	0		
3	Hand Line	OPEN	all	MA	all	0	0			P
4	Hand Line	OPEN	all	NE	all	0	0	0		
5	Otter Trawl	OPEN	all	MA	sm	0	0	0		
6	Otter Trawl	OPEN	all	MA	lg	0	0	0		
7	Otter Trawl	OPEN	all	NE	sm	0	0	0		
8	Otter Trawl	OPEN	all	NE	lg	0	0	0		
9	Scallop Trawl	AA	GEN	MA	all	0	0	0		P
11	Scallop Trawl	OPEN	GEN	MA	all	0	0	0		P
12	Scallop Trawl	OPEN	LIM	MA	all	0	0	0		P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	0	0			P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	0	0			P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	0	0	0		P
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	0	0	0		
18	Shrimp Trawl	OPEN	all	MA	all	0	0			P
19	Shrimp Trawl	OPEN	all	NE	all	0	0	0		
21	Floating Trap	OPEN	all	NE	all	0	0			P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	0	0	0		P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	0	0	0		
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlg	0	0	0		
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	0	0			P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	0	0	0		
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlg	0	0	0		
28	Purse Seine	OPEN	all	MA	all	0	0			P
29	Purse Seine	OPEN	all	NE	all	0	0	0		
30	Scallop Dredge	AA	GEN	MA	all	0	0	0		
31	Scallop Dredge	AA	GEN	NE	all	0	0	0		P
32	Scallop Dredge	AA	LIM	MA	all	0	0	0		
33	Scallop Dredge	AA	LIM	NE	all	0	0	0		

See text for fleet abbreviations.

**Table 5A, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 14 fish and invertebrate species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. Light shading indicates that the variance of the discard estimate was not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species Group: ATLANTIC SALMON**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
34	Scallop Dredge	OPEN	GEN	MA	all	0	0	0		
35	Scallop Dredge	OPEN	GEN	NE	all	0	0	0		
36	Scallop Dredge	OPEN	LIM	MA	all	0	0	0		
37	Scallop Dredge	OPEN	LIM	NE	all	0	0	0		
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	0	0			P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	0	0	0		
41	Pots and Traps, Fish	OPEN	all	MA	all	0	0			P
42	Pots and Traps, Fish	OPEN	all	NE	all	0	0			P
43	Pots and Traps, Conch	OPEN	all	MA	all	0	0			P
44	Pots and Traps, Conch	OPEN	all	NE	all	0	0			P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	0	0			P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	0	0			P
48	Pots and Traps, Lobster	OPEN	all	MA	all	0	0			P
49	Pots and Traps, Lobster	OPEN	all	NE	all	0	0	0		P
50	Pots and Traps, Crab	OPEN	all	MA	all	0	0			P
51	Pots and Traps, Crab	OPEN	all	NE	all	0	0			P
52	Beam Trawl	OPEN	all	MA	all	0	0			P
53	Beam Trawl	OPEN	all	NE	all	0	0			P
54	Dredge, Other	OPEN	all	MA	all	0	0			P
55	Ocean Quahog/Surfclam Dredge	OPEN	all	MA	all	0	0			P
56	Ocean Quahog/Surfclam Dredge	OPEN	all	NE	all	0	0			P
	Confidential fleets					0	0	0		
	Other minor fleets					0	0			
					TOTAL	0	0	0		

**Table 5A, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 14 fish and invertebrate species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. Light shading indicates that the variance of the discard estimate was not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species Group: BLUEFISH**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
1	Longline	OPEN	all	MA	all	86	86			P
2	Longline	OPEN	all	NE	all	47	13	34	0.906	
3	Hand Line	OPEN	all	MA	all	122,275	122,275			P
4	Hand Line	OPEN	all	NE	all	27,508	27,409	99	2.340	
5	Otter Trawl	OPEN	all	MA	sm	332,110	321,721	10,389	0.283	
6	Otter Trawl	OPEN	all	MA	lg	275,806	259,973	15,833	0.708	
7	Otter Trawl	OPEN	all	NE	sm	255,753	235,311	20,442	0.605	
8	Otter Trawl	OPEN	all	NE	lg	96,575	84,129	12,446	0.196	
9	Scallop Trawl	AA	GEN	MA	all	0	0	0		P
11	Scallop Trawl	OPEN	GEN	MA	all	231	231	0		P
12	Scallop Trawl	OPEN	LIM	MA	all	675	675	0		P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	66	66			P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	45	45			P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	0	0	0		P
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	793	659	134	0.945	
18	Shrimp Trawl	OPEN	all	MA	all	59	59			P
19	Shrimp Trawl	OPEN	all	NE	all	466	466	0		
21	Floating Trap	OPEN	all	NE	all	2,814	2,814			P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	161,148	160,328	820	8.578	P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	550,712	425,388	125,324	0.979	
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlg	43,625	21,630	21,995	0.261	
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	2,005	2,005			P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	107,282	106,383	899	0.282	
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlg	20,657	6,674	13,983	0.173	
28	Purse Seine	OPEN	all	MA	all	0	0			P
29	Purse Seine	OPEN	all	NE	all	305	0	305	1.165	
30	Scallop Dredge	AA	GEN	MA	all	0	0	0		
31	Scallop Dredge	AA	GEN	NE	all	0	0	0		P
32	Scallop Dredge	AA	LIM	MA	all	0	0	0		
33	Scallop Dredge	AA	LIM	NE	all	0	0	0		

See text for fleet abbreviations.

**Table 5A, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 14 fish and invertebrate species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. Light shading indicates that the variance of the discard estimate was not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species Group: BLUEFISH**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
34	Scallop Dredge	OPEN	GEN	MA	all	0	0	0		
35	Scallop Dredge	OPEN	GEN	NE	all	0	0	0		
36	Scallop Dredge	OPEN	LIM	MA	all	0	0	0		
37	Scallop Dredge	OPEN	LIM	NE	all	0	0	0		
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	0	0			P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	3,370	11	3,359	0.551	
41	Pots and Traps, Fish	OPEN	all	MA	all	1,062	1,062			P
42	Pots and Traps, Fish	OPEN	all	NE	all	9	9			P
43	Pots and Traps, Conch	OPEN	all	MA	all	72	72			P
44	Pots and Traps, Conch	OPEN	all	NE	all	7	7			P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	0	0			P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	0	0			P
48	Pots and Traps, Lobster	OPEN	all	MA	all	20	20			P
49	Pots and Traps, Lobster	OPEN	all	NE	all	20	20	0		P
50	Pots and Traps, Crab	OPEN	all	MA	all	0	0			P
51	Pots and Traps, Crab	OPEN	all	NE	all	0	0			P
52	Beam Trawl	OPEN	all	MA	all	5,409	5,409			P
53	Beam Trawl	OPEN	all	NE	all	108	108			P
54	Dredge, Other	OPEN	all	MA	all	0	0			P
55	Ocean Quahog/Surfclam Dredge	OPEN	all	MA	all	0	0			P
56	Ocean Quahog/Surfclam Dredge	OPEN	all	NE	all	0	0			P
Confidential fleets						81,755	81,755	0		
Other minor fleets						119	119			
TOTAL						2,092,993	1,866,932	226,061	0.550	

**Table 5A, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 14 fish and invertebrate species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. Light shading indicates that the variance of the discard estimate was not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species Group: FLUKE - SCUP - BLACK SEA BASS**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
1	Longline	OPEN	all	MA	all	40	40			P
2	Longline	OPEN	all	NE	all	0	0	0		
3	Hand Line	OPEN	all	MA	all	311,166	311,166			P
4	Hand Line	OPEN	all	NE	all	47,624	47,624	0		
5	Otter Trawl	OPEN	all	MA	sm	4,254,808	3,751,796	503,012	0.188	
6	Otter Trawl	OPEN	all	MA	lg	11,612,733	11,235,428	377,305	0.304	
7	Otter Trawl	OPEN	all	NE	sm	4,355,888	3,595,081	760,807	0.298	
8	Otter Trawl	OPEN	all	NE	lg	4,890,481	4,299,825	590,656	0.089	
9	Scallop Trawl	AA	GEN	MA	all	728	545	183	0.872	P
11	Scallop Trawl	OPEN	GEN	MA	all	211,581	47,946	163,635	0.070	P
12	Scallop Trawl	OPEN	LIM	MA	all	58,274	58,013	261	0.000	P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	24,894	24,894			P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	2,925	2,925			P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	3,706	895	2,811	0.289	P
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	6,357	4,406	1,951	0.584	
18	Shrimp Trawl	OPEN	all	MA	all	415	415			P
19	Shrimp Trawl	OPEN	all	NE	all	14,283	14,130	153	0.442	
21	Floating Trap	OPEN	all	NE	all	20,123	20,123			P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	6,834	6,834	0		P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	12,646	12,646	0		
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlg	46,388	16,625	29,763	0.280	
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	110	110			P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	61,937	61,681	256	0.358	
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlg	98,102	27,945	70,157	0.101	
28	Purse Seine	OPEN	all	MA	all	0	0			P
29	Purse Seine	OPEN	all	NE	all	0	0	0		
30	Scallop Dredge	AA	GEN	MA	all	4,813	948	3,865	0.339	
31	Scallop Dredge	AA	GEN	NE	all	529	0	529	0.536	P
32	Scallop Dredge	AA	LIM	MA	all	197,498	37,099	160,399	0.163	
33	Scallop Dredge	AA	LIM	NE	all	276,749	0	276,749	0.106	

**Table 5A, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 14 fish and invertebrate species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. Light shading indicates that the variance of the discard estimate was not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species Group: FLUKE - SCUP - BLACK SEA BASS**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
34	Scallop Dredge	OPEN	GEN	MA	all	142,335	17,485	124,850	0.922	
35	Scallop Dredge	OPEN	GEN	NE	all	221	20	201	1.034	
36	Scallop Dredge	OPEN	LIM	MA	all	222,675	20,393	202,282	0.180	
37	Scallop Dredge	OPEN	LIM	NE	all	332,288	623	331,665	0.284	
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	0	0			P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	5	0	5	0.734	
41	Pots and Traps, Fish	OPEN	all	MA	all	474,745	474,745			P
42	Pots and Traps, Fish	OPEN	all	NE	all	196,476	196,476			P
43	Pots and Traps, Conch	OPEN	all	MA	all	1,574	1,574			P
44	Pots and Traps, Conch	OPEN	all	NE	all	1,785	1,785			P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	0	0			P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	1,380	1,380			P
48	Pots and Traps, Lobster	OPEN	all	MA	all	43,242	43,242			P
49	Pots and Traps, Lobster	OPEN	all	NE	all	15,598	15,598	0		P
50	Pots and Traps, Crab	OPEN	all	MA	all	0	0			P
51	Pots and Traps, Crab	OPEN	all	NE	all	0	0			P
52	Beam Trawl	OPEN	all	MA	all	88,789	88,789			P
53	Beam Trawl	OPEN	all	NE	all	28,942	28,942			P
54	Dredge, Other	OPEN	all	MA	all	935	935			P
55	Ocean Quahog/Surfclam Dredge	OPEN	all	MA	all	150	150			P
56	Ocean Quahog/Surfclam Dredge	OPEN	all	NE	all	0	0			P
Confidential fleets						4,376	4,332	44	0.387	
Other minor fleets						4,744	4,744			
TOTAL						28,081,893	24,480,353	3,601,540	0.088	

**Table 5A, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 14 fish and invertebrate species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. Light shading indicates that the variance of the discard estimate was not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species Group: HERRING, ATLANTIC**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
1	Longline	OPEN	all	MA	all	0	0			P
2	Longline	OPEN	all	NE	all	0	0	0		
3	Hand Line	OPEN	all	MA	all	287	287			P
4	Hand Line	OPEN	all	NE	all	787	787	0		
5	Otter Trawl	OPEN	all	MA	sm	74,437	61,372	13,065	0.359	
6	Otter Trawl	OPEN	all	MA	lg	4,870	4,826	44	1.350	
7	Otter Trawl	OPEN	all	NE	sm	11,660,270	11,576,068	84,202	0.507	
8	Otter Trawl	OPEN	all	NE	lg	13,789	55	13,734	0.122	
9	Scallop Trawl	AA	GEN	MA	all	0	0	0		P
11	Scallop Trawl	OPEN	GEN	MA	all	0	0	0		P
12	Scallop Trawl	OPEN	LIM	MA	all	0	0	0		P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	0	0			P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	0	0			P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	460	0	460	0.289	P
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	308	0	308	0.660	
18	Shrimp Trawl	OPEN	all	MA	all	0	0			P
19	Shrimp Trawl	OPEN	all	NE	all	421,498	343,042	78,456	0.420	
21	Floating Trap	OPEN	all	NE	all	253	253			P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	3,203	3,203	0		P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	899	899	0		
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlg	1,298	1,298	0		
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	0	0			P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	4,585	740	3,845	0.261	
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlg	17	0	17	0.436	
28	Purse Seine	OPEN	all	MA	all	0	0			P
29	Purse Seine	OPEN	all	NE	all	41,780,701	41,774,673	6,028	0.836	
30	Scallop Dredge	AA	GEN	MA	all	0	0	0		
31	Scallop Dredge	AA	GEN	NE	all	0	0	0		P
32	Scallop Dredge	AA	LIM	MA	all	5	0	5	0.880	
33	Scallop Dredge	AA	LIM	NE	all	7	0	7	0.728	

See text for fleet abbreviations.

**Table 5A, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 14 fish and invertebrate species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. Light shading indicates that the variance of the discard estimate was not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species Group: HERRING, ATLANTIC**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
34	Scallop Dredge	OPEN	GEN	MA	all	0	0	0		
35	Scallop Dredge	OPEN	GEN	NE	all	0	0	0		
36	Scallop Dredge	OPEN	LIM	MA	all	47	0	47	0.999	
37	Scallop Dredge	OPEN	LIM	NE	all	52	0	52	0.832	
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	955,793	955,793			P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	156,137,678	156,041,205	96,473	0.622	
41	Pots and Traps, Fish	OPEN	all	MA	all	0	0			P
42	Pots and Traps, Fish	OPEN	all	NE	all	0	0			P
43	Pots and Traps, Conch	OPEN	all	MA	all	0	0			P
44	Pots and Traps, Conch	OPEN	all	NE	all	0	0			P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	0	0			P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	0	0			P
48	Pots and Traps, Lobster	OPEN	all	MA	all	0	0			P
49	Pots and Traps, Lobster	OPEN	all	NE	all	1,529	650	879	0.116	P
50	Pots and Traps, Crab	OPEN	all	MA	all	0	0			P
51	Pots and Traps, Crab	OPEN	all	NE	all	0	0			P
52	Beam Trawl	OPEN	all	MA	all	0	0			P
53	Beam Trawl	OPEN	all	NE	all	0	0			P
54	Dredge, Other	OPEN	all	MA	all	0	0			P
55	Ocean Quahog/Surfclam Dredge	OPEN	all	MA	all	0	0			P
56	Ocean Quahog/Surfclam Dredge	OPEN	all	NE	all	0	0			P
Confidential fleets						36	36	0		
Other minor fleets						0	0			
TOTAL						211,062,810	210,765,187	297,623	0.272	

**Table 5A, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 14 fish and invertebrate species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. Light shading indicates that the variance of the discard estimate was not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species Group: LARGE MESH GROUND FISH**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
1	Longline	OPEN	all	MA	all	493	493			P
2	Longline	OPEN	all	NE	all	911,624	816,762	94,862	0.209	
3	Hand Line	OPEN	all	MA	all	8,855	8,855			P
4	Hand Line	OPEN	all	NE	all	172,321	162,355	9,966	0.775	
5	Otter Trawl	OPEN	all	MA	sm	701,697	13,636	688,061	0.266	
6	Otter Trawl	OPEN	all	MA	lg	1,305,375	111,545	1,193,830	0.232	
7	Otter Trawl	OPEN	all	NE	sm	913,149	179,633	733,516	0.275	
8	Otter Trawl	OPEN	all	NE	lg	47,093,974	43,917,252	3,176,722	0.041	
9	Scallop Trawl	AA	GEN	MA	all	64	0	64	0.723	P
11	Scallop Trawl	OPEN	GEN	MA	all	276,168	1,943	274,225	0.063	P
12	Scallop Trawl	OPEN	LIM	MA	all	3,271	0	3,271	0.000	P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	18,264	18,264			P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	0	0			P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	327,461	309,553	17,908	0.223	P
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	1,902,416	1,813,509	88,907	0.190	
18	Shrimp Trawl	OPEN	all	MA	all	0	0			P
19	Shrimp Trawl	OPEN	all	NE	all	91,453	50	91,403	0.251	
21	Floating Trap	OPEN	all	NE	all	10	10			P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	482	482	0		P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	2,464	485	1,979	0.460	
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlg	3,811	464	3,347	0.488	
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	1,238	1,238			P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	8,517,633	8,160,603	357,030	0.049	
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlg	195,801	168,776	27,025	0.113	
28	Purse Seine	OPEN	all	MA	all	0	0			P
29	Purse Seine	OPEN	all	NE	all	0	0	0		
30	Scallop Dredge	AA	GEN	MA	all	311	0	311	0.367	
31	Scallop Dredge	AA	GEN	NE	all	1,591	61	1,530	0.531	P
32	Scallop Dredge	AA	LIM	MA	all	33,547	3,490	30,057	0.312	
33	Scallop Dredge	AA	LIM	NE	all	339,973	20,877	319,096	0.135	

See text for fleet abbreviations.

**Table 5A, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 14 fish and invertebrate species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. Light shading indicates that the variance of the discard estimate was not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species Group: LARGE MESH GROUND FISH**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
34	Scallop Dredge	OPEN	GEN	MA	all	44,748	5	44,743	0.373	
35	Scallop Dredge	OPEN	GEN	NE	all	16,293	33	16,260	0.207	
36	Scallop Dredge	OPEN	LIM	MA	all	170,327	1,546	168,781	0.200	
37	Scallop Dredge	OPEN	LIM	NE	all	639,071	8,872	630,199	0.129	
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	0	0			P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	72,980	70,744	2,236	0.279	
41	Pots and Traps, Fish	OPEN	all	MA	all	3,637	3,637			P
42	Pots and Traps, Fish	OPEN	all	NE	all	134	134			P
43	Pots and Traps, Conch	OPEN	all	MA	all	0	0			P
44	Pots and Traps, Conch	OPEN	all	NE	all	0	0			P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	0	0			P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	0	0			P
48	Pots and Traps, Lobster	OPEN	all	MA	all	466	466			P
49	Pots and Traps, Lobster	OPEN	all	NE	all	46,467	1,184	45,283	0.015	P
50	Pots and Traps, Crab	OPEN	all	MA	all	0	0			P
51	Pots and Traps, Crab	OPEN	all	NE	all	0	0			P
52	Beam Trawl	OPEN	all	MA	all	0	0			P
53	Beam Trawl	OPEN	all	NE	all	21,993	21,993			P
54	Dredge, Other	OPEN	all	MA	all	0	0			P
55	Ocean Quahog/Surfclam Dredge	OPEN	all	MA	all	0	0			P
56	Ocean Quahog/Surfclam Dredge	OPEN	all	NE	all	1,310	1,310			P
Confidential fleets						23,075	14,835	8,240	0.521	
Other minor fleets						0	0			
TOTAL						63,863,950	55,835,095	8,028,855	0.053	

**Table 5A, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 14 fish and invertebrate species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. Light shading indicates that the variance of the discard estimate was not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species Group: MONKFISH**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
1	Longline	OPEN	all	MA	all	0	0			P
2	Longline	OPEN	all	NE	all	800	800	0		
3	Hand Line	OPEN	all	MA	all	1,018	1,018			P
4	Hand Line	OPEN	all	NE	all	30	30	0		
5	Otter Trawl	OPEN	all	MA	sm	354,122	102,044	252,078	0.238	
6	Otter Trawl	OPEN	all	MA	lg	503,804	296,812	206,991	0.284	
7	Otter Trawl	OPEN	all	NE	sm	147,468	100,626	46,843	0.254	
8	Otter Trawl	OPEN	all	NE	lg	7,334,252	6,687,738	646,514	0.058	
9	Scallop Trawl	AA	GEN	MA	all	3,594	382	3,212	0.672	P
11	Scallop Trawl	OPEN	GEN	MA	all	21,326	5,150	16,176	0.053	P
12	Scallop Trawl	OPEN	LIM	MA	all	9,150	7,289	1,861	0.000	P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	228	228			P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	737	737			P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	1,530	1,049	480	0.277	P
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	31,370	28,065	3,306	0.437	
18	Shrimp Trawl	OPEN	all	MA	all	498	498			P
19	Shrimp Trawl	OPEN	all	NE	all	354	0	354	0.489	
21	Floating Trap	OPEN	all	NE	all	60	60			P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	5,416	5,416	0		P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	20,326	20,326	0		
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlg	4,837,040	4,572,615	264,425	0.267	
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	5,625	5,625			P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	322,951	312,455	10,496	0.067	
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlg	4,156,848	3,906,593	250,255	0.108	
28	Purse Seine	OPEN	all	MA	all	0	0			P
29	Purse Seine	OPEN	all	NE	all	0	0	0		
30	Scallop Dredge	AA	GEN	MA	all	21,802	1,756	20,046	0.185	
31	Scallop Dredge	AA	GEN	NE	all	6,964	280	6,684	0.320	P
32	Scallop Dredge	AA	LIM	MA	all	674,961	67,720	607,241	0.136	
33	Scallop Dredge	AA	LIM	NE	all	1,020,937	137,213	883,724	0.090	

**Table 5A, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 14 fish and invertebrate species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. Light shading indicates that the variance of the discard estimate was not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species Group: MONKFISH**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
34	Scallop Dredge	OPEN	GEN	MA	all	173,497	74,913	98,584	0.246	
35	Scallop Dredge	OPEN	GEN	NE	all	120,931	18,343	102,588	0.322	
36	Scallop Dredge	OPEN	LIM	MA	all	1,623,113	157,263	1,465,851	0.146	
37	Scallop Dredge	OPEN	LIM	NE	all	2,565,353	347,308	2,218,045	0.152	
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	0	0			P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	33	0	33	0.554	
41	Pots and Traps, Fish	OPEN	all	MA	all	1,555	1,555			P
42	Pots and Traps, Fish	OPEN	all	NE	all	20	20			P
43	Pots and Traps, Conch	OPEN	all	MA	all	0	0			P
44	Pots and Traps, Conch	OPEN	all	NE	all	0	0			P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	0	0			P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	0	0			P
48	Pots and Traps, Lobster	OPEN	all	MA	all	332	332			P
49	Pots and Traps, Lobster	OPEN	all	NE	all	623	623	0		P
50	Pots and Traps, Crab	OPEN	all	MA	all	0	0			P
51	Pots and Traps, Crab	OPEN	all	NE	all	0	0			P
52	Beam Trawl	OPEN	all	MA	all	3,262	3,262			P
53	Beam Trawl	OPEN	all	NE	all	75	75			P
54	Dredge, Other	OPEN	all	MA	all	67	67			P
55	Ocean Quahog/Surfclam Dredge	OPEN	all	MA	all	34,668	34,668			P
56	Ocean Quahog/Surfclam Dredge	OPEN	all	NE	all	3,525	3,525			P
Confidential fleets						824	668	156	0.135	
Other minor fleets						747	747			
TOTAL						24,011,834	16,905,893	7,105,941	0.061	

**Table 5A, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 14 fish and invertebrate species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. Light shading indicates that the variance of the discard estimate was not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species Group: RED CRAB**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
1	Longline	OPEN	all	MA	all	0	0			P
2	Longline	OPEN	all	NE	all	0	0	0		
3	Hand Line	OPEN	all	MA	all	0	0			P
4	Hand Line	OPEN	all	NE	all	0	0	0		
5	Otter Trawl	OPEN	all	MA	sm	103,058	0	103,058	0.574	
6	Otter Trawl	OPEN	all	MA	lg	48	0	48	0.984	
7	Otter Trawl	OPEN	all	NE	sm	44	0	44	0.494	
8	Otter Trawl	OPEN	all	NE	lg	207,605	20	207,585	0.326	
9	Scallop Trawl	AA	GEN	MA	all	0	0	0		P
11	Scallop Trawl	OPEN	GEN	MA	all	0	0	0		P
12	Scallop Trawl	OPEN	LIM	MA	all	0	0	0		P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	0	0			P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	0	0			P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	0	0	0		P
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	53	0	53	0.519	
18	Shrimp Trawl	OPEN	all	MA	all	0	0			P
19	Shrimp Trawl	OPEN	all	NE	all	0	0	0		
21	Floating Trap	OPEN	all	NE	all	0	0			P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	0	0	0		P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	0	0	0		
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlg	0	0	0		
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	0	0			P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	438	0	438	0.196	
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlg	47	0	47	0.348	
28	Purse Seine	OPEN	all	MA	all	0	0			P
29	Purse Seine	OPEN	all	NE	all	0	0	0		
30	Scallop Dredge	AA	GEN	MA	all	0	0	0		
31	Scallop Dredge	AA	GEN	NE	all	0	0	0		P
32	Scallop Dredge	AA	LIM	MA	all	0	0	0		
33	Scallop Dredge	AA	LIM	NE	all	0	0	0		

See text for fleet abbreviations.

**Table 5A, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 14 fish and invertebrate species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. Light shading indicates that the variance of the discard estimate was not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species Group: RED CRAB**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
34	Scallop Dredge	OPEN	GEN	MA	all	0	0	0		
35	Scallop Dredge	OPEN	GEN	NE	all	0	0	0		
36	Scallop Dredge	OPEN	LIM	MA	all	0	0	0		
37	Scallop Dredge	OPEN	LIM	NE	all	120	0	120	0.780	
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	0	0			P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	0	0	0		
41	Pots and Traps, Fish	OPEN	all	MA	all	0	0			P
42	Pots and Traps, Fish	OPEN	all	NE	all	0	0			P
43	Pots and Traps, Conch	OPEN	all	MA	all	0	0			P
44	Pots and Traps, Conch	OPEN	all	NE	all	0	0			P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	0	0			P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	0	0			P
48	Pots and Traps, Lobster	OPEN	all	MA	all	1,200	1,200			P
49	Pots and Traps, Lobster	OPEN	all	NE	all	0	0	0		P
50	Pots and Traps, Crab	OPEN	all	MA	all	0	0			P
51	Pots and Traps, Crab	OPEN	all	NE	all	2,846,685	2,846,685			P
52	Beam Trawl	OPEN	all	MA	all	0	0			P
53	Beam Trawl	OPEN	all	NE	all	0	0			P
54	Dredge, Other	OPEN	all	MA	all	0	0			P
55	Ocean Quahog/Surfclam Dredge	OPEN	all	MA	all	0	0			P
56	Ocean Quahog/Surfclam Dredge	OPEN	all	NE	all	0	0			P
	Confidential fleets					0	0	0		
	Other minor fleets					0	0			
					TOTAL	3,159,298	2,847,905	311,393	0.289	

**Table 5A, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 14 fish and invertebrate species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. Light shading indicates that the variance of the discard estimate was not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species Group: SEA SCALLOP**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
1	Longline	OPEN	all	MA	all	0	0			P
2	Longline	OPEN	all	NE	all	27	0	27	0.747	
3	Hand Line	OPEN	all	MA	all	0	0			P
4	Hand Line	OPEN	all	NE	all	0	0	0		
5	Otter Trawl	OPEN	all	MA	sm	175,274	20,519	154,755	0.376	
6	Otter Trawl	OPEN	all	MA	lg	2,377,125	2,245,461	131,664	0.548	
7	Otter Trawl	OPEN	all	NE	sm	19,761	13,978	5,784	1.947	
8	Otter Trawl	OPEN	all	NE	lg	1,212,643	1,109,589	103,054	0.154	
9	Scallop Trawl	AA	GEN	MA	all	180,048	167,433	12,615	0.530	P
11	Scallop Trawl	OPEN	GEN	MA	all	1,716,616	1,648,411	68,205	0.077	P
12	Scallop Trawl	OPEN	LIM	MA	all	660,419	660,419	0		P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	13,953	13,953			P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	0	0			P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	242	242	0		P
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	4,204	750	3,454	1.103	
18	Shrimp Trawl	OPEN	all	MA	all	0	0			P
19	Shrimp Trawl	OPEN	all	NE	all	241	0	241	0.505	
21	Floating Trap	OPEN	all	NE	all	0	0			P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	0	0	0		P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	833	833	0		
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlrg	205	0	205	0.397	
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	0	0			P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	903	0	903	0.527	
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlrg	571	250	321	0.251	
28	Purse Seine	OPEN	all	MA	all	0	0			P
29	Purse Seine	OPEN	all	NE	all	0	0	0		
30	Scallop Dredge	AA	GEN	MA	all	3,482,783	3,371,305	111,479	0.251	
31	Scallop Dredge	AA	GEN	NE	all	229,484	218,613	10,872	0.327	P
32	Scallop Dredge	AA	LIM	MA	all	75,940,816	74,047,735	1,893,081	0.165	
33	Scallop Dredge	AA	LIM	NE	all	107,080,439	101,271,175	5,809,263	0.175	

See text for fleet abbreviations.

**Table 5A, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 14 fish and invertebrate species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. Light shading indicates that the variance of the discard estimate was not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species Group: SEA SCALLOP**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
34	Scallop Dredge	OPEN	GEN	MA	all	10,571,521	10,440,639	130,883	0.681	
35	Scallop Dredge	OPEN	GEN	NE	all	13,143,865	12,507,484	636,381	0.245	
36	Scallop Dredge	OPEN	LIM	MA	all	89,256,949	86,945,979	2,310,971	0.538	
37	Scallop Dredge	OPEN	LIM	NE	all	197,340,807	190,369,622	6,971,186	0.152	
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	0	0			P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	0	0	0		
41	Pots and Traps, Fish	OPEN	all	MA	all	0	0			P
42	Pots and Traps, Fish	OPEN	all	NE	all	0	0			P
43	Pots and Traps, Conch	OPEN	all	MA	all	0	0			P
44	Pots and Traps, Conch	OPEN	all	NE	all	0	0			P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	0	0			P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	0	0			P
48	Pots and Traps, Lobster	OPEN	all	MA	all	125	125			P
49	Pots and Traps, Lobster	OPEN	all	NE	all	0	0	0		P
50	Pots and Traps, Crab	OPEN	all	MA	all	0	0			P
51	Pots and Traps, Crab	OPEN	all	NE	all	0	0			P
52	Beam Trawl	OPEN	all	MA	all	103,994	103,994			P
53	Beam Trawl	OPEN	all	NE	all	23,757	23,757			P
54	Dredge, Other	OPEN	all	MA	all	1,250	1,250			P
55	Ocean Quahog/Surfclam Dredge	OPEN	all	MA	all	1,298,672	1,298,672			P
56	Ocean Quahog/Surfclam Dredge	OPEN	all	NE	all	1,722,311	1,722,311			P
Confidential fleets						8,522	7,872	650	0.046	
Other minor fleets						149,965	149,965			
TOTAL						506,718,327	488,362,332	18,355,995	0.107	

**Table 5A, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 14 fish and invertebrate species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. Light shading indicates that the variance of the discard estimate was not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species Group: SKATE COMPLEX**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
1	Longline	OPEN	all	MA	all	550	550			P
2	Longline	OPEN	all	NE	all	164,091	23,029	141,061	0.217	
3	Hand Line	OPEN	all	MA	all	186	186			P
4	Hand Line	OPEN	all	NE	all	1,477	1,121	356	0.866	
5	Otter Trawl	OPEN	all	MA	sm	6,127,136	264,595	5,862,541	0.195	
6	Otter Trawl	OPEN	all	MA	lg	16,896,134	2,708,050	14,188,085	0.136	
7	Otter Trawl	OPEN	all	NE	sm	1,716,679	344,905	1,371,774	0.307	
8	Otter Trawl	OPEN	all	NE	lg	42,358,147	13,603,774	28,754,373	0.055	
9	Scallop Trawl	AA	GEN	MA	all	14,047	386	13,661	0.652	P
11	Scallop Trawl	OPEN	GEN	MA	all	6,157,938	44,810	6,113,128	0.068	P
12	Scallop Trawl	OPEN	LIM	MA	all	135,298	0	135,298	0.000	P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	3,143	3,143			P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	0	0			P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	86,213	4,018	82,195	0.250	P
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	277,301	127,041	150,260	0.322	
18	Shrimp Trawl	OPEN	all	MA	all	0	0			P
19	Shrimp Trawl	OPEN	all	NE	all	5,634	0	5,634	0.501	
21	Floating Trap	OPEN	all	NE	all	577	577			P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	29,002	29,002	0		P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	139,597	103,636	35,961	0.391	
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlg	4,916,225	3,917,358	998,868	0.137	
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	8,682	8,682			P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	647,163	348,608	298,555	0.066	
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlg	16,191,966	13,519,653	2,672,313	0.072	
28	Purse Seine	OPEN	all	MA	all	0	0			P
29	Purse Seine	OPEN	all	NE	all	0	0	0		
30	Scallop Dredge	AA	GEN	MA	all	55,465	32	55,433	0.120	
31	Scallop Dredge	AA	GEN	NE	all	16,752	200	16,552	0.409	P
32	Scallop Dredge	AA	LIM	MA	all	1,476,028	7,378	1,468,650	0.133	
33	Scallop Dredge	AA	LIM	NE	all	2,999,568	20	2,999,548	0.082	

**Table 5A, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 14 fish and invertebrate species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. Light shading indicates that the variance of the discard estimate was not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species Group: SKATE COMPLEX**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
34	Scallop Dredge	OPEN	GEN	MA	all	1,329,351	7,836	1,321,515	0.527	
35	Scallop Dredge	OPEN	GEN	NE	all	250,252	50	250,202	0.162	
36	Scallop Dredge	OPEN	LIM	MA	all	4,566,899	0	4,566,899	0.187	
37	Scallop Dredge	OPEN	LIM	NE	all	8,099,021	700	8,098,321	0.130	
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	0	0			P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	262	0	262	0.563	
41	Pots and Traps, Fish	OPEN	all	MA	all	130	130			P
42	Pots and Traps, Fish	OPEN	all	NE	all	70	70			P
43	Pots and Traps, Conch	OPEN	all	MA	all	0	0			P
44	Pots and Traps, Conch	OPEN	all	NE	all	0	0			P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	0	0			P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	0	0			P
48	Pots and Traps, Lobster	OPEN	all	MA	all	0	0			P
49	Pots and Traps, Lobster	OPEN	all	NE	all	2,714	1,725	989	0.215	P
50	Pots and Traps, Crab	OPEN	all	MA	all	0	0			P
51	Pots and Traps, Crab	OPEN	all	NE	all	0	0			P
52	Beam Trawl	OPEN	all	MA	all	32,722	32,722			P
53	Beam Trawl	OPEN	all	NE	all	17,768	17,768			P
54	Dredge, Other	OPEN	all	MA	all	500	500			P
55	Ocean Quahog/Surfclam Dredge	OPEN	all	MA	all	480	480			P
56	Ocean Quahog/Surfclam Dredge	OPEN	all	NE	all	0	0			P
Confidential fleets						27,331	2,474	24,857	0.130	
Other minor fleets						25	25			
TOTAL						114,752,524	35,125,234	79,627,290	0.040	

**Table 5A, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 14 fish and invertebrate species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. Light shading indicates that the variance of the discard estimate was not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species Group: SMALL MESH GROUND FISH**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
1	Longline	OPEN	all	MA	all	225	225			P
2	Longline	OPEN	all	NE	all	2,024	5	2,019	0.310	
3	Hand Line	OPEN	all	MA	all	5,434	5,434			P
4	Hand Line	OPEN	all	NE	all	1,473	1,473	0		
5	Otter Trawl	OPEN	all	MA	sm	7,712,678	5,573,381	2,139,297	0.290	
6	Otter Trawl	OPEN	all	MA	lg	503,753	470,407	33,346	0.351	
7	Otter Trawl	OPEN	all	NE	sm	14,416,071	11,162,071	3,254,000	0.250	
8	Otter Trawl	OPEN	all	NE	lg	639,728	316,710	323,018	0.069	
9	Scallop Trawl	AA	GEN	MA	all	1	0	1	0.879	P
11	Scallop Trawl	OPEN	GEN	MA	all	2,988	2,354	634	0.179	P
12	Scallop Trawl	OPEN	LIM	MA	all	3,500	0	3,500	0.000	P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	15	15			P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	15	15			P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	1,840	0	1,840	0.044	P
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	11,640	105	11,535	0.308	
18	Shrimp Trawl	OPEN	all	MA	all	2,240	2,240			P
19	Shrimp Trawl	OPEN	all	NE	all	309,445	40,347	269,098	0.268	
21	Floating Trap	OPEN	all	NE	all	15	15			P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	146	146	0		P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	177	177	0		
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlg	533	368	165	0.696	
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	0	0			P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	38,821	23,172	15,649	0.094	
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlg	1,334	769	565	0.198	
28	Purse Seine	OPEN	all	MA	all	0	0			P
29	Purse Seine	OPEN	all	NE	all	0	0	0	1.281	
30	Scallop Dredge	AA	GEN	MA	all	1,016	0	1,016	0.437	
31	Scallop Dredge	AA	GEN	NE	all	198	0	198	0.526	P
32	Scallop Dredge	AA	LIM	MA	all	18,898	0	18,898	0.387	
33	Scallop Dredge	AA	LIM	NE	all	103,147	0	103,147	0.182	

See text for fleet abbreviations.

**Table 5A, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 14 fish and invertebrate species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. Light shading indicates that the variance of the discard estimate was not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species Group: SMALL MESH GROUND FISH**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
34	Scallop Dredge	OPEN	GEN	MA	all	2,282	0	2,282	0.518	
35	Scallop Dredge	OPEN	GEN	NE	all	6,643	0	6,643	0.565	
36	Scallop Dredge	OPEN	LIM	MA	all	54,191	0	54,191	0.274	
37	Scallop Dredge	OPEN	LIM	NE	all	114,112	0	114,112	0.238	
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	0	0			P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	621	5	616	0.913	
41	Pots and Traps, Fish	OPEN	all	MA	all	2,136	2,136			P
42	Pots and Traps, Fish	OPEN	all	NE	all	26	26			P
43	Pots and Traps, Conch	OPEN	all	MA	all	5	5			P
44	Pots and Traps, Conch	OPEN	all	NE	all	0	0			P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	0	0			P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	0	0			P
48	Pots and Traps, Lobster	OPEN	all	MA	all	13,226	13,226			P
49	Pots and Traps, Lobster	OPEN	all	NE	all	21,513	11,181	10,332	0.215	P
50	Pots and Traps, Crab	OPEN	all	MA	all	0	0			P
51	Pots and Traps, Crab	OPEN	all	NE	all	0	0			P
52	Beam Trawl	OPEN	all	MA	all	179	179			P
53	Beam Trawl	OPEN	all	NE	all	0	0			P
54	Dredge, Other	OPEN	all	MA	all	0	0			P
55	Ocean Quahog/Surfclam Dredge	OPEN	all	MA	all	0	0			P
56	Ocean Quahog/Surfclam Dredge	OPEN	all	NE	all	0	0			P
Confidential fleets						1,087	1,074	13	0.824	
Other minor fleets						5,420	5,420			
TOTAL						23,998,797	17,632,681	6,366,116	0.161	

**Table 5A, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 14 fish and invertebrate species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. Light shading indicates that the variance of the discard estimate was not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species Group: SPINY DOGFISH**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
1	Longline	OPEN	all	MA	all	75,700	75,700			P
2	Longline	OPEN	all	NE	all	1,325,479	1,067,764	257,715	0.256	
3	Hand Line	OPEN	all	MA	all	9,213	9,213			P
4	Hand Line	OPEN	all	NE	all	406,295	400,788	5,507	0.453	
5	Otter Trawl	OPEN	all	MA	sm	5,309,542	518,488	4,791,054	0.320	
6	Otter Trawl	OPEN	all	MA	lg	2,989,725	619,940	2,369,785	0.245	
7	Otter Trawl	OPEN	all	NE	sm	1,889,132	190,009	1,699,123	0.200	
8	Otter Trawl	OPEN	all	NE	lg	7,476,955	381,408	7,095,547	0.065	
9	Scallop Trawl	AA	GEN	MA	all	1,599	0	1,599	0.827	P
11	Scallop Trawl	OPEN	GEN	MA	all	423,882	3,885	419,997	0.074	P
12	Scallop Trawl	OPEN	LIM	MA	all	6,778	0	6,778	0.000	P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	3,000	3,000			P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	0	0			P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	8,925	0	8,925	0.143	P
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	55,858	2,900	52,958	0.476	
18	Shrimp Trawl	OPEN	all	MA	all	0	0			P
19	Shrimp Trawl	OPEN	all	NE	all	17,714	14,740	2,974	0.821	
21	Floating Trap	OPEN	all	NE	all	0	0			P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	439,176	439,176	0		P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	3,596,104	3,081,690	514,414	0.487	
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlg	431,877	287,940	143,937	0.179	
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	5,614	5,614			P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	9,897,427	5,813,446	4,083,981	0.048	
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlg	908,503	643,450	265,053	0.079	
28	Purse Seine	OPEN	all	MA	all	0	0			P
29	Purse Seine	OPEN	all	NE	all	277	0	277	1.165	
30	Scallop Dredge	AA	GEN	MA	all	1,398	0	1,398	0.599	
31	Scallop Dredge	AA	GEN	NE	all	191	0	191	0.536	P
32	Scallop Dredge	AA	LIM	MA	all	218,935	0	218,935	0.190	
33	Scallop Dredge	AA	LIM	NE	all	201,895	0	201,895	0.240	

See text for fleet abbreviations.

**Table 5A, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 14 fish and invertebrate species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. Light shading indicates that the variance of the discard estimate was not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species Group: SPINY DOGFISH**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
34	Scallop Dredge	OPEN	GEN	MA	all	26,765	398	26,367	1.159	
35	Scallop Dredge	OPEN	GEN	NE	all	625	0	625	0.587	
36	Scallop Dredge	OPEN	LIM	MA	all	220,650	0	220,650	0.201	
37	Scallop Dredge	OPEN	LIM	NE	all	239,869	65	239,804	0.297	
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	2,000	2,000			P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	198,947	9,200	189,747	0.299	
41	Pots and Traps, Fish	OPEN	all	MA	all	408	408			P
42	Pots and Traps, Fish	OPEN	all	NE	all	320	320			P
43	Pots and Traps, Conch	OPEN	all	MA	all	5,700	5,700			P
44	Pots and Traps, Conch	OPEN	all	NE	all	0	0			P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	0	0			P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	0	0			P
48	Pots and Traps, Lobster	OPEN	all	MA	all	0	0			P
49	Pots and Traps, Lobster	OPEN	all	NE	all	5,712	216	5,496	0.116	P
50	Pots and Traps, Crab	OPEN	all	MA	all	0	0			P
51	Pots and Traps, Crab	OPEN	all	NE	all	0	0			P
52	Beam Trawl	OPEN	all	MA	all	36,085	36,085			P
53	Beam Trawl	OPEN	all	NE	all	0	0			P
54	Dredge, Other	OPEN	all	MA	all	0	0			P
55	Ocean Quahog/Surfclam Dredge	OPEN	all	MA	all	0	0			P
56	Ocean Quahog/Surfclam Dredge	OPEN	all	NE	all	0	0			P
Confidential fleets						7,683	45	7,638	0.376	
Other minor fleets						6,500	6,500			
TOTAL						36,452,458	13,620,088	22,832,370	0.078	

**Table 5A, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 14 fish and invertebrate species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. Light shading indicates that the variance of the discard estimate was not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species Group: SQUID - BUTTERFISH - MACKEREL**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
1	Longline	OPEN	all	MA	all	0	0			P
2	Longline	OPEN	all	NE	all	0	0	0		
3	Hand Line	OPEN	all	MA	all	5,201	5,201			P
4	Hand Line	OPEN	all	NE	all	8,380	8,345	35	1.646	
5	Otter Trawl	OPEN	all	MA	sm	31,519,514	28,523,206	2,996,308	0.282	
6	Otter Trawl	OPEN	all	MA	lg	536,878	517,364	19,514	0.335	
7	Otter Trawl	OPEN	all	NE	sm	33,093,096	30,962,249	2,130,847	0.200	
8	Otter Trawl	OPEN	all	NE	lg	505,670	382,145	123,525	0.118	
9	Scallop Trawl	AA	GEN	MA	all	3	0	3	0.879	P
11	Scallop Trawl	OPEN	GEN	MA	all	12,528	10,521	2,007	0.125	P
12	Scallop Trawl	OPEN	LIM	MA	all	688	100	588	0.000	P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	127	127			P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	458,107	458,107			P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	877	20	857	0.257	P
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	1,021	0	1,021	0.621	
18	Shrimp Trawl	OPEN	all	MA	all	4,707	4,707			P
19	Shrimp Trawl	OPEN	all	NE	all	321,300	272,058	49,242	0.274	
21	Floating Trap	OPEN	all	NE	all	47,428	47,428			P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	15,751	15,751	0		P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	508	508	0		
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlg	66	56	10	0.910	
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	0	0			P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	6,730	5,121	1,609	0.090	
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlg	179	57	122	0.382	
28	Purse Seine	OPEN	all	MA	all	0	0			P
29	Purse Seine	OPEN	all	NE	all	373	188	185	0.909	
30	Scallop Dredge	AA	GEN	MA	all	177	0	177	0.545	
31	Scallop Dredge	AA	GEN	NE	all	0	0	0		P
32	Scallop Dredge	AA	LIM	MA	all	1,670	4	1,666	0.217	
33	Scallop Dredge	AA	LIM	NE	all	1,977	0	1,977	0.232	

See text for fleet abbreviations.

**Table 5A, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 14 fish and invertebrate species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. Light shading indicates that the variance of the discard estimate was not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species Group: SQUID - BUTTERFISH - MACKEREL**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
34	Scallop Dredge	OPEN	GEN	MA	all	955	45	910	1.268	
35	Scallop Dredge	OPEN	GEN	NE	all	220	0	220	0.627	
36	Scallop Dredge	OPEN	LIM	MA	all	3,783	40	3,743	0.181	
37	Scallop Dredge	OPEN	LIM	NE	all	3,330	0	3,330	0.366	
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	1,690,500	1,690,500			P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	3,936,626	3,936,314	312	0.431	
41	Pots and Traps, Fish	OPEN	all	MA	all	53,256	53,256			P
42	Pots and Traps, Fish	OPEN	all	NE	all	20	20			P
43	Pots and Traps, Conch	OPEN	all	MA	all	0	0			P
44	Pots and Traps, Conch	OPEN	all	NE	all	0	0			P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	0	0			P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	0	0			P
48	Pots and Traps, Lobster	OPEN	all	MA	all	0	0			P
49	Pots and Traps, Lobster	OPEN	all	NE	all	73	73	0		P
50	Pots and Traps, Crab	OPEN	all	MA	all	0	0			P
51	Pots and Traps, Crab	OPEN	all	NE	all	0	0			P
52	Beam Trawl	OPEN	all	MA	all	1,781	1,781			P
53	Beam Trawl	OPEN	all	NE	all	0	0			P
54	Dredge, Other	OPEN	all	MA	all	0	0			P
55	Ocean Quahog/Surfclam Dredge	OPEN	all	MA	all	0	0			P
56	Ocean Quahog/Surfclam Dredge	OPEN	all	NE	all	0	0			P
Confidential fleets						773	759	14	0.427	
Other minor fleets						219,949	219,949			
TOTAL						72,454,219	67,116,000	5,338,219	0.177	

**Table 5A, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 14 fish and invertebrate species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. Light shading indicates that the variance of the discard estimate was not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species Group: SURFCLAM - OCEAN QUAHOG**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
1	Longline	OPEN	all	MA	all	0	0			P
2	Longline	OPEN	all	NE	all	11	0	11	0.897	
3	Hand Line	OPEN	all	MA	all	0	0			P
4	Hand Line	OPEN	all	NE	all	0	0	0		
5	Otter Trawl	OPEN	all	MA	sm	1,861	0	1,861	0.691	
6	Otter Trawl	OPEN	all	MA	lg	1,256	0	1,256	0.397	
7	Otter Trawl	OPEN	all	NE	sm	54	0	54	2.134	
8	Otter Trawl	OPEN	all	NE	lg	915	0	915	0.497	
9	Scallop Trawl	AA	GEN	MA	all	0	0	0		P
11	Scallop Trawl	OPEN	GEN	MA	all	0	0	0		P
12	Scallop Trawl	OPEN	LIM	MA	all	0	0	0		P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	0	0			P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	0	0			P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	0	0	0		P
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	0	0	0		
18	Shrimp Trawl	OPEN	all	MA	all	0	0			P
19	Shrimp Trawl	OPEN	all	NE	all	0	0	0		
21	Floating Trap	OPEN	all	NE	all	0	0			P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	0	0	0		P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	0	0	0		
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlrg	0	0	0		
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	0	0			P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	0	0	0		
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlrg	16	0	16	0.615	
28	Purse Seine	OPEN	all	MA	all	0	0			P
29	Purse Seine	OPEN	all	NE	all	0	0	0		
30	Scallop Dredge	AA	GEN	MA	all	123	0	123	0.477	
31	Scallop Dredge	AA	GEN	NE	all	0	0	0		P
32	Scallop Dredge	AA	LIM	MA	all	798	0	798	0.500	
33	Scallop Dredge	AA	LIM	NE	all	16,574	0	16,574	0.757	

See text for fleet abbreviations.

**Table 5A, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 14 fish and invertebrate species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. Light shading indicates that the variance of the discard estimate was not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species Group: SURFCLAM - OCEAN QUAHOG**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
34	Scallop Dredge	OPEN	GEN	MA	all	386	0	386	0.954	
35	Scallop Dredge	OPEN	GEN	NE	all	16,682	16,682	0		
36	Scallop Dredge	OPEN	LIM	MA	all	847	0	847	0.803	
37	Scallop Dredge	OPEN	LIM	NE	all	70,782	0	70,782	0.824	
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	0	0			P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	0	0	0		
41	Pots and Traps, Fish	OPEN	all	MA	all	0	0			P
42	Pots and Traps, Fish	OPEN	all	NE	all	0	0			P
43	Pots and Traps, Conch	OPEN	all	MA	all	0	0			P
44	Pots and Traps, Conch	OPEN	all	NE	all	0	0			P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	0	0			P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	0	0			P
48	Pots and Traps, Lobster	OPEN	all	MA	all	0	0			P
49	Pots and Traps, Lobster	OPEN	all	NE	all	0	0	0		P
50	Pots and Traps, Crab	OPEN	all	MA	all	0	0			P
51	Pots and Traps, Crab	OPEN	all	NE	all	0	0			P
52	Beam Trawl	OPEN	all	MA	all	0	0			P
53	Beam Trawl	OPEN	all	NE	all	0	0			P
54	Dredge, Other	OPEN	all	MA	all	0	0			P
55	Ocean Quahog/Surfclam Dredge	OPEN	all	MA	all	286,718,030	286,718,030			P
56	Ocean Quahog/Surfclam Dredge	OPEN	all	NE	all	184,413,050	184,413,050			P
	Confidential fleets					0	0	0		
	Other minor fleets					1,238	1,238			
					TOTAL	471,242,623	471,149,000	93,624	0.637	

**Table 5A, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 14 fish and invertebrate species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. Light shading indicates that the variance of the discard estimate was not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species Group: TILEFISH**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
1	Longline	OPEN	all	MA	all	1,479,511	1,479,511			P
2	Longline	OPEN	all	NE	all	0	0	0		
3	Hand Line	OPEN	all	MA	all	691	691			P
4	Hand Line	OPEN	all	NE	all	0	0	0		
5	Otter Trawl	OPEN	all	MA	sm	7,723	5,960	1,763	0.681	
6	Otter Trawl	OPEN	all	MA	lg	17,191	3,383	13,808	0.684	
7	Otter Trawl	OPEN	all	NE	sm	7,098	6,213	885	0.507	
8	Otter Trawl	OPEN	all	NE	lg	5,388	4,766	622	0.388	
9	Scallop Trawl	AA	GEN	MA	all	0	0	0		P
11	Scallop Trawl	OPEN	GEN	MA	all	0	0	0		P
12	Scallop Trawl	OPEN	LIM	MA	all	0	0	0		P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	0	0			P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	10	10			P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	0	0	0		P
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	0	0	0		
18	Shrimp Trawl	OPEN	all	MA	all	0	0			P
19	Shrimp Trawl	OPEN	all	NE	all	0	0	0		
21	Floating Trap	OPEN	all	NE	all	0	0			P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	0	0	0		P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	0	0	0		
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlg	384	384	0		
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	0	0			P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	0	0	0		
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlg	2,833	946	1,887	0.328	
28	Purse Seine	OPEN	all	MA	all	0	0			P
29	Purse Seine	OPEN	all	NE	all	0	0	0		
30	Scallop Dredge	AA	GEN	MA	all	0	0	0		
31	Scallop Dredge	AA	GEN	NE	all	0	0	0		P
32	Scallop Dredge	AA	LIM	MA	all	0	0	0		

**Table 5A, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 14 fish and invertebrate species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. Light shading indicates that the variance of the discard estimate was not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species Group: TILEFISH**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
33	Scallop Dredge	AA	LIM	NE	all	0	0	0		
34	Scallop Dredge	OPEN	GEN	MA	all	0	0	0		
35	Scallop Dredge	OPEN	GEN	NE	all	0	0	0		
36	Scallop Dredge	OPEN	LIM	MA	all	0	0	0		
37	Scallop Dredge	OPEN	LIM	NE	all	0	0	0		
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	0	0			P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	0	0	0		
41	Pots and Traps, Fish	OPEN	all	MA	all	220	220			P
42	Pots and Traps, Fish	OPEN	all	NE	all	0	0			P
43	Pots and Traps, Conch	OPEN	all	MA	all	0	0			P
44	Pots and Traps, Conch	OPEN	all	NE	all	0	0			P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	0	0			P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	0	0			P
48	Pots and Traps, Lobster	OPEN	all	MA	all	0	0			P
49	Pots and Traps, Lobster	OPEN	all	NE	all	755	755	0		P
50	Pots and Traps, Crab	OPEN	all	MA	all	0	0			P
51	Pots and Traps, Crab	OPEN	all	NE	all	0	0			P
52	Beam Trawl	OPEN	all	MA	all	0	0			P
53	Beam Trawl	OPEN	all	NE	all	0	0			P
54	Dredge, Other	OPEN	all	MA	all	0	0			P
55	Ocean Quahog/Surfclam Dredge	OPEN	all	MA	all	0	0			P
56	Ocean Quahog/Surfclam Dredge	OPEN	all	NE	all	0	0			P
	Confidential fleets					0	0	0		
	Other minor fleets					20	20			
					TOTAL	1,521,825	1,502,859	18,966	0.504	

**Table 5B. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: BLACK SEA BASS**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
1	Longline	OPEN	all	MA	all	40	40			P
2	Longline	OPEN	all	NE	all	0	0	0		
3	Hand Line	OPEN	all	MA	all	110,938	110,938			P
4	Hand Line	OPEN	all	NE	all	13,578	13,578	0		
5	Otter Trawl	OPEN	all	MA	sm	315,066	230,841	84,225	0.334	
6	Otter Trawl	OPEN	all	MA	lg	368,256	316,730	51,526	0.611	
7	Otter Trawl	OPEN	all	NE	sm	133,458	55,987	77,471	0.455	
8	Otter Trawl	OPEN	all	NE	lg	61,205	37,228	23,977	0.156	
9	Scallop Trawl	AA	GEN	MA	all	16	16	0		P
11	Scallop Trawl	OPEN	GEN	MA	all	333	333	0		P
12	Scallop Trawl	OPEN	LIM	MA	all	280	280	0		P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	771	771			P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	700	700			P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	0	0	0		P
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	14	0	14	1.328	
18	Shrimp Trawl	OPEN	all	MA	all	0	0			P
19	Shrimp Trawl	OPEN	all	NE	all	920	920	0		
21	Floating Trap	OPEN	all	NE	all	1,337	1,337			P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	2,902	2,902	0		P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	1,653	1,653	0		
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlg	2,475	2,475	0		
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	0	0			P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	3,650	3,645	5	0.944	
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlg	389	282	107	0.515	
28	Purse Seine	OPEN	all	MA	all	0	0			P
29	Purse Seine	OPEN	all	NE	all	0	0	0		
30	Scallop Dredge	AA	GEN	MA	all	24	0	24	0.583	
31	Scallop Dredge	AA	GEN	NE	all	0	0	0		P
32	Scallop Dredge	AA	LIM	MA	all	2,516	35	2,481	0.196	
33	Scallop Dredge	AA	LIM	NE	all	4,531	0	4,531	0.256	

See text for fleet abbreviations.

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012**  
**Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: BLACK SEA BASS**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
34	Scallop Dredge	OPEN	GEN	MA	all	1,096	3	1,093	1.513	
35	Scallop Dredge	OPEN	GEN	NE	all	0	0	0		
36	Scallop Dredge	OPEN	LIM	MA	all	1,908	82	1,826	0.283	
37	Scallop Dredge	OPEN	LIM	NE	all	2,955	0	2,955	0.470	
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	0	0			P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	5	0	5	0.734	
41	Pots and Traps, Fish	OPEN	all	MA	all	451,309	451,309			P
42	Pots and Traps, Fish	OPEN	all	NE	all	76,787	76,787			P
43	Pots and Traps, Conch	OPEN	all	MA	all	1,143	1,143			P
44	Pots and Traps, Conch	OPEN	all	NE	all	594	594			P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	0	0			P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	0	0			P
48	Pots and Traps, Lobster	OPEN	all	MA	all	41,561	41,561			P
49	Pots and Traps, Lobster	OPEN	all	NE	all	8,304	8,304	0		P
50	Pots and Traps, Crab	OPEN	all	MA	all	0	0			P
51	Pots and Traps, Crab	OPEN	all	NE	all	0	0			P
52	Beam Trawl	OPEN	all	MA	all	3,952	3,952			P
53	Beam Trawl	OPEN	all	NE	all	90	90			P
54	Dredge, Other	OPEN	all	MA	all	0	0			P
55	Ocean Quahog/Surfcclam Dredge	OPEN	all	MA	all	0	0			P
56	Ocean Quahog/Surfcclam Dredge	OPEN	all	NE	all	0	0			P
Confidential fleets						47	47	0		
Other minor fleets						74	74			
TOTAL						1,614,878	1,364,637	250,241	0.220	

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: FLUKE**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
1	Longline	OPEN	all	MA	all	0	0			P
2	Longline	OPEN	all	NE	all	0	0	0		
3	Hand Line	OPEN	all	MA	all	86,323	86,323			P
4	Hand Line	OPEN	all	NE	all	24,771	24,771	0		
5	Otter Trawl	OPEN	all	MA	sm	754,790	542,592	212,198	0.237	
6	Otter Trawl	OPEN	all	MA	lg	8,644,464	8,465,721	178,743	0.173	
7	Otter Trawl	OPEN	all	NE	sm	895,813	748,249	147,564	0.383	
8	Otter Trawl	OPEN	all	NE	lg	2,491,811	1,976,118	515,693	0.100	
9	Scallop Trawl	AA	GEN	MA	all	712	529	183	0.872	P
11	Scallop Trawl	OPEN	GEN	MA	all	210,920	47,285	163,635	0.070	P
12	Scallop Trawl	OPEN	LIM	MA	all	56,428	56,428	0		P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	23,753	23,753			P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	220	220			P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	3,706	895	2,811	0.289	P
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	6,286	4,349	1,937	0.588	
18	Shrimp Trawl	OPEN	all	MA	all	415	415			P
19	Shrimp Trawl	OPEN	all	NE	all	737	737	0		
21	Floating Trap	OPEN	all	NE	all	2,532	2,532			P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	3,731	3,731	0		P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	7,452	7,452	0		
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xl	43,755	14,050	29,705	0.280	
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	10	10			P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	25,049	24,799	250	0.366	
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xl	96,758	26,748	70,010	0.102	
28	Purse Seine	OPEN	all	MA	all	0	0			P
29	Purse Seine	OPEN	all	NE	all	0	0	0		
30	Scallop Dredge	AA	GEN	MA	all	4,105	263	3,842	0.341	
31	Scallop Dredge	AA	GEN	NE	all	529	0	529	0.536	P
32	Scallop Dredge	AA	LIM	MA	all	173,034	15,674	157,360	0.164	
33	Scallop Dredge	AA	LIM	NE	all	271,666	0	271,666	0.106	
34	Scallop Dredge	OPEN	GEN	MA	all	141,236	17,480	123,756	0.917	

See text for fleet abbreviations.

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: FLUKE**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
35	Scallop Dredge	OPEN	GEN	NE	all	221	20	201	1.034	
36	Scallop Dredge	OPEN	LIM	MA	all	220,256	20,311	199,945	0.181	
37	Scallop Dredge	OPEN	LIM	NE	all	328,869	623	328,246	0.284	
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	0	0			P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	0	0	0		
41	Pots and Traps, Fish	OPEN	all	MA	all	10,567	10,567			P
42	Pots and Traps, Fish	OPEN	all	NE	all	1,379	1,379			P
43	Pots and Traps, Conch	OPEN	all	MA	all	76	76			P
44	Pots and Traps, Conch	OPEN	all	NE	all	0	0			P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	0	0			P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	0	0			P
48	Pots and Traps, Lobster	OPEN	all	MA	all	664	664			P
49	Pots and Traps, Lobster	OPEN	all	NE	all	196	196	0		P
50	Pots and Traps, Crab	OPEN	all	MA	all	0	0			P
51	Pots and Traps, Crab	OPEN	all	NE	all	0	0			P
52	Beam Trawl	OPEN	all	MA	all	83,164	83,164			P
53	Beam Trawl	OPEN	all	NE	all	22,480	22,480			P
54	Dredge, Other	OPEN	all	MA	all	935	935			P
55	Ocean Quahog/Surfclam Dredge	OPEN	all	MA	all	150	150			P
56	Ocean Quahog/Surfclam Dredge	OPEN	all	NE	all	0	0			P
Confidential fleets						4,257	4,213	44	0.387	
Other minor fleets						550	550			
TOTAL						14,644,770	12,236,452	2,408,318	0.077	

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: SCUP**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
1	Longline	OPEN	all	MA	all	0	0			P
2	Longline	OPEN	all	NE	all	0	0	0		
3	Hand Line	OPEN	all	MA	all	113,905	113,905			P
4	Hand Line	OPEN	all	NE	all	9,275	9,275	0		
5	Otter Trawl	OPEN	all	MA	sm	3,184,951	2,978,363	206,588	0.293	
6	Otter Trawl	OPEN	all	MA	lg	2,600,013	2,452,977	147,036	0.759	
7	Otter Trawl	OPEN	all	NE	sm	3,326,617	2,790,845	535,772	0.308	
8	Otter Trawl	OPEN	all	NE	lg	2,337,466	2,286,479	50,987	0.169	
9	Scallop Trawl	AA	GEN	MA	all	0	0	0		P
11	Scallop Trawl	OPEN	GEN	MA	all	328	328	0		P
12	Scallop Trawl	OPEN	LIM	MA	all	1,566	1,305	261	0.000	P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	370	370			P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	2,005	2,005			P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	0	0	0		P
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	57	57	0		
18	Shrimp Trawl	OPEN	all	MA	all	0	0			P
19	Shrimp Trawl	OPEN	all	NE	all	12,626	12,473	153	0.442	
21	Floating Trap	OPEN	all	NE	all	16,254	16,254			P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	201	201	0		P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	3,541	3,541	0		
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xl	158	100	58	0.900	
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	100	100			P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	33,238	33,237	1	0.908	
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xl	955	915	40	0.580	
28	Purse Seine	OPEN	all	MA	all	0	0			P
29	Purse Seine	OPEN	all	NE	all	0	0	0		
30	Scallop Dredge	AA	GEN	MA	all	685	685	0		
31	Scallop Dredge	AA	GEN	NE	all	0	0	0		P
32	Scallop Dredge	AA	LIM	MA	all	21,948	21,390	558	0.379	
33	Scallop Dredge	AA	LIM	NE	all	552	0	552	0.393	
34	Scallop Dredge	OPEN	GEN	MA	all	2	2	0		

See text for fleet abbreviations.

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: SCUP**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
35	Scallop Dredge	OPEN	GEN	NE	all	0	0	0		
36	Scallop Dredge	OPEN	LIM	MA	all	511	0	511	0.800	
37	Scallop Dredge	OPEN	LIM	NE	all	464	0	464	0.573	
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	0	0			P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	0	0	0		
41	Pots and Traps, Fish	OPEN	all	MA	all	12,869	12,869			P
42	Pots and Traps, Fish	OPEN	all	NE	all	118,310	118,310			P
43	Pots and Traps, Conch	OPEN	all	MA	all	355	355			P
44	Pots and Traps, Conch	OPEN	all	NE	all	1,191	1,191			P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	0	0			P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	1,380	1,380			P
48	Pots and Traps, Lobster	OPEN	all	MA	all	1,017	1,017			P
49	Pots and Traps, Lobster	OPEN	all	NE	all	7,098	7,098	0		P
50	Pots and Traps, Crab	OPEN	all	MA	all	0	0			P
51	Pots and Traps, Crab	OPEN	all	NE	all	0	0			P
52	Beam Trawl	OPEN	all	MA	all	1,673	1,673			P
53	Beam Trawl	OPEN	all	NE	all	6,372	6,372			P
54	Dredge, Other	OPEN	all	MA	all	0	0			P
55	Ocean Quahog/Surfclam Dredge	OPEN	all	MA	all	0	0			P
56	Ocean Quahog/Surfclam Dredge	OPEN	all	NE	all	0	0			P
Confidential fleets						72	72	0		
Other minor fleets						4,120	4,120			
TOTAL						11,822,245	10,879,264	942,981	0.221	

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: AMERICAN PLAICE**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
1	Longline	OPEN	all	MA	all	0	0			P
2	Longline	OPEN	all	NE	all	30	17	13	1.720	
3	Hand Line	OPEN	all	MA	all	0	0			P
4	Hand Line	OPEN	all	NE	all	0	0	0		
5	Otter Trawl	OPEN	all	MA	sm	1,364	664	700	0.502	
6	Otter Trawl	OPEN	all	MA	lg	5,551	5,531	20	1.475	
7	Otter Trawl	OPEN	all	NE	sm	13,641	4,909	8,732	0.616	
8	Otter Trawl	OPEN	all	NE	lg	3,497,374	3,004,129	493,245	0.054	
9	Scallop Trawl	AA	GEN	MA	all	0	0	0		P
11	Scallop Trawl	OPEN	GEN	MA	all	0	0	0		P
12	Scallop Trawl	OPEN	LIM	MA	all	0	0	0		P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	0	0			P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	0	0			P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	1,099	854	245	0.289	P
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	27,950	24,656	3,294	0.274	
18	Shrimp Trawl	OPEN	all	MA	all	0	0			P
19	Shrimp Trawl	OPEN	all	NE	all	59,095	0	59,095	0.305	
21	Floating Trap	OPEN	all	NE	all	0	0			P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	0	0	0		P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	70	70	0		
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlg	7	7	0		
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	5	5			P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	22,680	16,287	6,393	0.075	
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlg	1,290	1,204	86	0.536	
28	Purse Seine	OPEN	all	MA	all	0	0			P
29	Purse Seine	OPEN	all	NE	all	0	0	0		
30	Scallop Dredge	AA	GEN	MA	all	0	0	0		
31	Scallop Dredge	AA	GEN	NE	all	0	0	0		P
32	Scallop Dredge	AA	LIM	MA	all	185	0	185	0.630	
33	Scallop Dredge	AA	LIM	NE	all	5,690	77	5,613	0.343	
34	Scallop Dredge	OPEN	GEN	MA	all	0	0	0		

See text for fleet abbreviations.

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: AMERICAN PLAICE**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
35	Scallop Dredge	OPEN	GEN	NE	all	0	0	0		
36	Scallop Dredge	OPEN	LIM	MA	all	330	0	330	0.680	
37	Scallop Dredge	OPEN	LIM	NE	all	11,591	20	11,571	0.406	
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	0	0			P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	2	0	2	0.928	
41	Pots and Traps, Fish	OPEN	all	MA	all	0	0			P
42	Pots and Traps, Fish	OPEN	all	NE	all	0	0			P
43	Pots and Traps, Conch	OPEN	all	MA	all	0	0			P
44	Pots and Traps, Conch	OPEN	all	NE	all	0	0			P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	0	0			P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	0	0			P
48	Pots and Traps, Lobster	OPEN	all	MA	all	0	0			P
49	Pots and Traps, Lobster	OPEN	all	NE	all	0	0	0		P
50	Pots and Traps, Crab	OPEN	all	MA	all	0	0			P
51	Pots and Traps, Crab	OPEN	all	NE	all	0	0			P
52	Beam Trawl	OPEN	all	MA	all	0	0			P
53	Beam Trawl	OPEN	all	NE	all	570	570			P
54	Dredge, Other	OPEN	all	MA	all	0	0			P
55	Ocean Quahog/Surflclam Dredge	OPEN	all	MA	all	0	0			P
56	Ocean Quahog/Surflclam Dredge	OPEN	all	NE	all	0	0			P
	Confidential fleets					0	0	0		
	Other minor fleets					0	0			
	TOTAL					3,648,523	3,059,000	589,523	0.056	

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: ATLANTIC COD**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
1	Longline	OPEN	all	MA	all	493	493			P
2	Longline	OPEN	all	NE	all	568,382	505,673	62,709	0.193	
3	Hand Line	OPEN	all	MA	all	7,333	7,333			P
4	Hand Line	OPEN	all	NE	all	128,901	119,222	9,679	0.741	
5	Otter Trawl	OPEN	all	MA	sm	3,783	525	3,258	0.922	
6	Otter Trawl	OPEN	all	MA	lg	12,005	11,387	618	0.935	
7	Otter Trawl	OPEN	all	NE	sm	18,902	6,950	11,952	0.706	
8	Otter Trawl	OPEN	all	NE	lg	9,226,148	8,786,228	439,920	0.077	
9	Scallop Trawl	AA	GEN	MA	all	0	0	0		P
11	Scallop Trawl	OPEN	GEN	MA	all	0	0	0		P
12	Scallop Trawl	OPEN	LIM	MA	all	784	0	784	0.000	P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	100	100			P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	0	0			P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	26,031	25,376	655	0.289	P
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	102,962	88,802	14,160	0.396	
18	Shrimp Trawl	OPEN	all	MA	all	0	0			P
19	Shrimp Trawl	OPEN	all	NE	all	32	0	32	1.014	
21	Floating Trap	OPEN	all	NE	all	10	10			P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	33	33	0		P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	294	294	0		
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlg	596	305	291	0.700	
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	905	905			P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	2,490,179	2,409,592	80,587	0.038	
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlg	100,622	90,937	9,685	0.123	
28	Purse Seine	OPEN	all	MA	all	0	0			P
29	Purse Seine	OPEN	all	NE	all	0	0	0		
30	Scallop Dredge	AA	GEN	MA	all	0	0	0		
31	Scallop Dredge	AA	GEN	NE	all	0	0	0		P
32	Scallop Dredge	AA	LIM	MA	all	323	0	323	0.664	
33	Scallop Dredge	AA	LIM	NE	all	2,859	23	2,836	0.225	
34	Scallop Dredge	OPEN	GEN	MA	all	0	0	0		

See text for fleet abbreviations.

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: ATLANTIC COD**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
35	Scallop Dredge	OPEN	GEN	NE	all	0	0	0		
36	Scallop Dredge	OPEN	LIM	MA	all	199	14	185	0.699	
37	Scallop Dredge	OPEN	LIM	NE	all	7,531	10	7,521	0.316	
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	0	0			P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	221	0	221	0.489	
41	Pots and Traps, Fish	OPEN	all	MA	all	2,910	2,910			P
42	Pots and Traps, Fish	OPEN	all	NE	all	80	80			P
43	Pots and Traps, Conch	OPEN	all	MA	all	0	0			P
44	Pots and Traps, Conch	OPEN	all	NE	all	0	0			P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	0	0			P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	0	0			P
48	Pots and Traps, Lobster	OPEN	all	MA	all	189	189			P
49	Pots and Traps, Lobster	OPEN	all	NE	all	677	677	0		P
50	Pots and Traps, Crab	OPEN	all	MA	all	0	0			P
51	Pots and Traps, Crab	OPEN	all	NE	all	0	0			P
52	Beam Trawl	OPEN	all	MA	all	0	0			P
53	Beam Trawl	OPEN	all	NE	all	3,490	3,490			P
54	Dredge, Other	OPEN	all	MA	all	0	0			P
55	Ocean Quahog/Surflclam Dredge	OPEN	all	MA	all	0	0			P
56	Ocean Quahog/Surflclam Dredge	OPEN	all	NE	all	0	0			P
Confidential fleets						8,569	8,446	123	0.671	
Other minor fleets						0	0			
TOTAL						12,715,543	12,070,004	645,539	0.060	

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: ATLANTIC HALIBUT**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
1	Longline	OPEN	all	MA	all	0	0			P
2	Longline	OPEN	all	NE	all	4,756	4,560	196	0.903	
3	Hand Line	OPEN	all	MA	all	0	0			P
4	Hand Line	OPEN	all	NE	all	46	46	0		
5	Otter Trawl	OPEN	all	MA	sm	173	0	173	0.853	
6	Otter Trawl	OPEN	all	MA	lg	0	0	0		
7	Otter Trawl	OPEN	all	NE	sm	1,405	0	1,405	2.063	
8	Otter Trawl	OPEN	all	NE	lg	65,398	14,670	50,728	0.061	
9	Scallop Trawl	AA	GEN	MA	all	0	0	0		P
11	Scallop Trawl	OPEN	GEN	MA	all	0	0	0		P
12	Scallop Trawl	OPEN	LIM	MA	all	0	0	0		P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	0	0			P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	0	0			P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	482	60	422	0.289	P
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	1,361	378	983	0.430	
18	Shrimp Trawl	OPEN	all	MA	all	0	0			P
19	Shrimp Trawl	OPEN	all	NE	all	0	0	0		
21	Floating Trap	OPEN	all	NE	all	0	0			P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	0	0	0		P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	0	0	0		
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlg	3,020	39	2,981	0.546	
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	0	0			P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	8,383	2,133	6,250	0.090	
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlg	7,544	969	6,575	0.196	
28	Purse Seine	OPEN	all	MA	all	0	0			P
29	Purse Seine	OPEN	all	NE	all	0	0	0		
30	Scallop Dredge	AA	GEN	MA	all	0	0	0		
31	Scallop Dredge	AA	GEN	NE	all	0	0	0		P
32	Scallop Dredge	AA	LIM	MA	all	0	0	0		
33	Scallop Dredge	AA	LIM	NE	all	780	0	780	0.571	
34	Scallop Dredge	OPEN	GEN	MA	all	0	0	0		

See text for fleet abbreviations.

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: ATLANTIC HALIBUT**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
35	Scallop Dredge	OPEN	GEN	NE	all	0	0	0		
36	Scallop Dredge	OPEN	LIM	MA	all	1,299	0	1,299	0.958	
37	Scallop Dredge	OPEN	LIM	NE	all	37	0	37	0.640	
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	0	0			P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	0	0	0		
41	Pots and Traps, Fish	OPEN	all	MA	all	0	0			P
42	Pots and Traps, Fish	OPEN	all	NE	all	0	0			P
43	Pots and Traps, Conch	OPEN	all	MA	all	0	0			P
44	Pots and Traps, Conch	OPEN	all	NE	all	0	0			P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	0	0			P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	0	0			P
48	Pots and Traps, Lobster	OPEN	all	MA	all	0	0			P
49	Pots and Traps, Lobster	OPEN	all	NE	all	442	442	0		P
50	Pots and Traps, Crab	OPEN	all	MA	all	0	0			P
51	Pots and Traps, Crab	OPEN	all	NE	all	0	0			P
52	Beam Trawl	OPEN	all	MA	all	0	0			P
53	Beam Trawl	OPEN	all	NE	all	0	0			P
54	Dredge, Other	OPEN	all	MA	all	0	0			P
55	Ocean Quahog/Surflam Dredge	OPEN	all	MA	all	0	0			P
56	Ocean Quahog/Surflam Dredge	OPEN	all	NE	all	0	0			P
Confidential fleets						0	0	0		
Other minor fleets						0	0			
TOTAL						95,126	23,297	71,829	0.069	

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: ATLANTIC WOLFFISH**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
1	Longline	OPEN	all	MA	all	0	0			P
2	Longline	OPEN	all	NE	all	3,903	0	3,903	0.271	
3	Hand Line	OPEN	all	MA	all	0	0			P
4	Hand Line	OPEN	all	NE	all	0	0	0		
5	Otter Trawl	OPEN	all	MA	sm	0	0	0		
6	Otter Trawl	OPEN	all	MA	lg	0	0	0		
7	Otter Trawl	OPEN	all	NE	sm	194	0	194	2.128	
8	Otter Trawl	OPEN	all	NE	lg	65,092	16	65,076	0.088	
9	Scallop Trawl	AA	GEN	MA	all	0	0	0		P
11	Scallop Trawl	OPEN	GEN	MA	all	0	0	0		P
12	Scallop Trawl	OPEN	LIM	MA	all	0	0	0		P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	0	0			P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	0	0			P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	0	0	0		P
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	454	0	454	0.602	
18	Shrimp Trawl	OPEN	all	MA	all	0	0			P
19	Shrimp Trawl	OPEN	all	NE	all	0	0	0		
21	Floating Trap	OPEN	all	NE	all	0	0			P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	125	125	0		P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	0	0	0		
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlg	0	0	0		
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	0	0			P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	10,023	0	10,023	0.090	
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlg	1,279	0	1,279	0.273	
28	Purse Seine	OPEN	all	MA	all	0	0			P
29	Purse Seine	OPEN	all	NE	all	0	0	0		
30	Scallop Dredge	AA	GEN	MA	all	0	0	0		
31	Scallop Dredge	AA	GEN	NE	all	0	0	0		P
32	Scallop Dredge	AA	LIM	MA	all	0	0	0		
33	Scallop Dredge	AA	LIM	NE	all	286	0	286	0.980	
34	Scallop Dredge	OPEN	GEN	MA	all	0	0	0		

See text for fleet abbreviations.

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: ATLANTIC WOLFFISH**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
35	Scallop Dredge	OPEN	GEN	NE	all	0	0	0		
36	Scallop Dredge	OPEN	LIM	MA	all	0	0	0		
37	Scallop Dredge	OPEN	LIM	NE	all	1,337	0	1,337	0.953	
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	0	0			P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	0	0	0		
41	Pots and Traps, Fish	OPEN	all	MA	all	0	0			P
42	Pots and Traps, Fish	OPEN	all	NE	all	0	0			P
43	Pots and Traps, Conch	OPEN	all	MA	all	0	0			P
44	Pots and Traps, Conch	OPEN	all	NE	all	0	0			P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	0	0			P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	0	0			P
48	Pots and Traps, Lobster	OPEN	all	MA	all	0	0			P
49	Pots and Traps, Lobster	OPEN	all	NE	all	0	0	0		P
50	Pots and Traps, Crab	OPEN	all	MA	all	0	0			P
51	Pots and Traps, Crab	OPEN	all	NE	all	0	0			P
52	Beam Trawl	OPEN	all	MA	all	0	0			P
53	Beam Trawl	OPEN	all	NE	all	0	0			P
54	Dredge, Other	OPEN	all	MA	all	0	0			P
55	Ocean Quahog/Surflclam Dredge	OPEN	all	MA	all	0	0			P
56	Ocean Quahog/Surflclam Dredge	OPEN	all	NE	all	0	0			P
	Confidential fleets					0	0	0		
	Other minor fleets					0	0			
	TOTAL					82,693	141	82,552	0.074	

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: HADDOCK**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
1	Longline	OPEN	all	MA	all	0	0			P
2	Longline	OPEN	all	NE	all	294,800	281,531	13,269	0.606	
3	Hand Line	OPEN	all	MA	all	0	0			P
4	Hand Line	OPEN	all	NE	all	1,809	1,617	192	3.533	
5	Otter Trawl	OPEN	all	MA	sm	51,285	0	51,285	0.576	
6	Otter Trawl	OPEN	all	MA	lg	991	985	6	1.480	
7	Otter Trawl	OPEN	all	NE	sm	395,951	1,261	394,690	0.314	
8	Otter Trawl	OPEN	all	NE	lg	3,669,135	3,525,081	144,054	0.149	
9	Scallop Trawl	AA	GEN	MA	all	0	0	0		P
11	Scallop Trawl	OPEN	GEN	MA	all	0	0	0		P
12	Scallop Trawl	OPEN	LIM	MA	all	0	0	0		P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	18,000	18,000			P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	0	0			P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	271,984	259,813	12,171	0.288	P
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	951,679	926,172	25,507	0.327	
18	Shrimp Trawl	OPEN	all	MA	all	0	0			P
19	Shrimp Trawl	OPEN	all	NE	all	11,613	0	11,613	0.714	
21	Floating Trap	OPEN	all	NE	all	0	0			P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	0	0	0		P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	0	0	0		
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlg	5	5	0		
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	0	0			P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	61,899	55,852	6,047	0.081	
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlg	1,377	833	544	0.248	
28	Purse Seine	OPEN	all	MA	all	0	0			P
29	Purse Seine	OPEN	all	NE	all	0	0	0		
30	Scallop Dredge	AA	GEN	MA	all	0	0	0		
31	Scallop Dredge	AA	GEN	NE	all	37	0	37	0.536	P
32	Scallop Dredge	AA	LIM	MA	all	586	0	586	0.777	
33	Scallop Dredge	AA	LIM	NE	all	3,284	0	3,284	0.242	
34	Scallop Dredge	OPEN	GEN	MA	all	0	0	0		

See text for fleet abbreviations.

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: HADDOCK**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
35	Scallop Dredge	OPEN	GEN	NE	all	0	0	0		
36	Scallop Dredge	OPEN	LIM	MA	all	0	0	0		
37	Scallop Dredge	OPEN	LIM	NE	all	2,498	0	2,498	0.357	
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	0	0			P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	72,035	70,744	1,291	0.367	
41	Pots and Traps, Fish	OPEN	all	MA	all	0	0			P
42	Pots and Traps, Fish	OPEN	all	NE	all	0	0			P
43	Pots and Traps, Conch	OPEN	all	MA	all	0	0			P
44	Pots and Traps, Conch	OPEN	all	NE	all	0	0			P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	0	0			P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	0	0			P
48	Pots and Traps, Lobster	OPEN	all	MA	all	0	0			P
49	Pots and Traps, Lobster	OPEN	all	NE	all	0	0	0		P
50	Pots and Traps, Crab	OPEN	all	MA	all	0	0			P
51	Pots and Traps, Crab	OPEN	all	NE	all	0	0			P
52	Beam Trawl	OPEN	all	MA	all	0	0			P
53	Beam Trawl	OPEN	all	NE	all	658	658			P
54	Dredge, Other	OPEN	all	MA	all	0	0			P
55	Ocean Quahog/Surflclam Dredge	OPEN	all	MA	all	0	0			P
56	Ocean Quahog/Surflclam Dredge	OPEN	all	NE	all	0	0			P
	Confidential fleets					0	0	0		
	Other minor fleets					0	0			
					TOTAL	5,809,626	5,142,552	667,074	0.195	

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: OCEAN POUT**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
1	Longline	OPEN	all	MA	all	0	0			P
2	Longline	OPEN	all	NE	all	11,042	0	11,042	0.560	
3	Hand Line	OPEN	all	MA	all	0	0			P
4	Hand Line	OPEN	all	NE	all	0	0	0		
5	Otter Trawl	OPEN	all	MA	sm	21,918	0	21,918	0.403	
6	Otter Trawl	OPEN	all	MA	lg	125,644	6	125,638	0.577	
7	Otter Trawl	OPEN	all	NE	sm	6,440	0	6,440	0.867	
8	Otter Trawl	OPEN	all	NE	lg	124,078	0	124,078	0.200	
9	Scallop Trawl	AA	GEN	MA	all	0	0	0		P
11	Scallop Trawl	OPEN	GEN	MA	all	4,764	0	4,764	0.177	P
12	Scallop Trawl	OPEN	LIM	MA	all	46	0	46	0.000	P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	0	0			P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	0	0			P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	804	0	804	0.289	P
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	359	0	359	0.433	
18	Shrimp Trawl	OPEN	all	MA	all	0	0			P
19	Shrimp Trawl	OPEN	all	NE	all	0	0	0		
21	Floating Trap	OPEN	all	NE	all	0	0			P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	1	1	0		P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	0	0	0		
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlg	0	0	0		
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	0	0			P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	407	0	407	0.251	
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlg	15	0	15	0.619	
28	Purse Seine	OPEN	all	MA	all	0	0			P
29	Purse Seine	OPEN	all	NE	all	0	0	0		
30	Scallop Dredge	AA	GEN	MA	all	0	0	0		
31	Scallop Dredge	AA	GEN	NE	all	0	0	0		P
32	Scallop Dredge	AA	LIM	MA	all	408	0	408	0.360	
33	Scallop Dredge	AA	LIM	NE	all	922	0	922	0.231	
34	Scallop Dredge	OPEN	GEN	MA	all	0	0	0		

See text for fleet abbreviations.

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**  
**Species: OCEAN POUT**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
35	Scallop Dredge	OPEN	GEN	NE	all	220	0	220	0.642	
36	Scallop Dredge	OPEN	LIM	MA	all	1,203	0	1,203	0.483	
37	Scallop Dredge	OPEN	LIM	NE	all	4,112	0	4,112	0.188	
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	0	0			P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	0	0	0		
41	Pots and Traps, Fish	OPEN	all	MA	all	175	175			P
42	Pots and Traps, Fish	OPEN	all	NE	all	0	0			P
43	Pots and Traps, Conch	OPEN	all	MA	all	0	0			P
44	Pots and Traps, Conch	OPEN	all	NE	all	0	0			P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	0	0			P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	0	0			P
48	Pots and Traps, Lobster	OPEN	all	MA	all	0	0			P
49	Pots and Traps, Lobster	OPEN	all	NE	all	0	0	0		P
50	Pots and Traps, Crab	OPEN	all	MA	all	0	0			P
51	Pots and Traps, Crab	OPEN	all	NE	all	0	0			P
52	Beam Trawl	OPEN	all	MA	all	0	0			P
53	Beam Trawl	OPEN	all	NE	all	0	0			P
54	Dredge, Other	OPEN	all	MA	all	0	0			P
55	Ocean Quahog/Surflclam Dredge	OPEN	all	MA	all	0	0			P
56	Ocean Quahog/Surflclam Dredge	OPEN	all	NE	all	0	0			P
Confidential fleets						418	0	418	0.316	
Other minor fleets						0	0			
TOTAL						302,975	182	302,793	0.256	

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: POLLOCK**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
1	Longline	OPEN	all	MA	all	0	0			P
2	Longline	OPEN	all	NE	all	13,089	11,492	1,597	0.992	
3	Hand Line	OPEN	all	MA	all	1,365	1,365			P
4	Hand Line	OPEN	all	NE	all	40,647	40,552	95	2.997	
5	Otter Trawl	OPEN	all	MA	sm	981	0	981	0.766	
6	Otter Trawl	OPEN	all	MA	lg	35	35	0		
7	Otter Trawl	OPEN	all	NE	sm	12,355	8,522	3,833	1.033	
8	Otter Trawl	OPEN	all	NE	lg	9,563,661	9,520,237	43,424	0.136	
9	Scallop Trawl	AA	GEN	MA	all	0	0	0		P
11	Scallop Trawl	OPEN	GEN	MA	all	0	0	0		P
12	Scallop Trawl	OPEN	LIM	MA	all	0	0	0		P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	14	14			P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	0	0			P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	5,600	5,600	0		P
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	382,904	375,853	7,051	0.378	
18	Shrimp Trawl	OPEN	all	MA	all	0	0			P
19	Shrimp Trawl	OPEN	all	NE	all	2,459	0	2,459	0.860	
21	Floating Trap	OPEN	all	NE	all	0	0			P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	0	0	0		P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	0	0	0		
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xl	39	39	0		
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	172	172			P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	4,391,769	4,234,462	157,307	0.090	
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xl	41,570	35,912	5,658	0.175	
28	Purse Seine	OPEN	all	MA	all	0	0			P
29	Purse Seine	OPEN	all	NE	all	0	0	0		
30	Scallop Dredge	AA	GEN	MA	all	0	0	0		
31	Scallop Dredge	AA	GEN	NE	all	0	0	0		P
32	Scallop Dredge	AA	LIM	MA	all	0	0	0		
33	Scallop Dredge	AA	LIM	NE	all	0	0	0		
34	Scallop Dredge	OPEN	GEN	MA	all	0	0	0		

See text for fleet abbreviations.

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: POLLOCK**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
35	Scallop Dredge	OPEN	GEN	NE	all	0	0	0		
36	Scallop Dredge	OPEN	LIM	MA	all	0	0	0		
37	Scallop Dredge	OPEN	LIM	NE	all	29	0	29	0.883	
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	0	0			P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	646	0	646	0.573	
41	Pots and Traps, Fish	OPEN	all	MA	all	11	11			P
42	Pots and Traps, Fish	OPEN	all	NE	all	0	0			P
43	Pots and Traps, Conch	OPEN	all	MA	all	0	0			P
44	Pots and Traps, Conch	OPEN	all	NE	all	0	0			P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	0	0			P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	0	0			P
48	Pots and Traps, Lobster	OPEN	all	MA	all	0	0			P
49	Pots and Traps, Lobster	OPEN	all	NE	all	0	0	0		P
50	Pots and Traps, Crab	OPEN	all	MA	all	0	0			P
51	Pots and Traps, Crab	OPEN	all	NE	all	0	0			P
52	Beam Trawl	OPEN	all	MA	all	0	0			P
53	Beam Trawl	OPEN	all	NE	all	0	0			P
54	Dredge, Other	OPEN	all	MA	all	0	0			P
55	Ocean Quahog/Surflclam Dredge	OPEN	all	MA	all	0	0			P
56	Ocean Quahog/Surflclam Dredge	OPEN	all	NE	all	0	0			P
Confidential fleets						5	5	0		
Other minor fleets						0	0			
TOTAL						14,457,352	14,234,271	223,081	0.073	

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: REDFISH**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
1	Longline	OPEN	all	MA	all	0	0			P
2	Longline	OPEN	all	NE	all	1,607	1,547	60	0.393	
3	Hand Line	OPEN	all	MA	all	0	0			P
4	Hand Line	OPEN	all	NE	all	520	520	0		
5	Otter Trawl	OPEN	all	MA	sm	1,933	0	1,933	0.808	
6	Otter Trawl	OPEN	all	MA	lg	188	0	188	0.537	
7	Otter Trawl	OPEN	all	NE	sm	207,012	146,680	60,332	1.708	
8	Otter Trawl	OPEN	all	NE	lg	5,594,831	5,264,619	330,212	0.144	
9	Scallop Trawl	AA	GEN	MA	all	0	0	0		P
11	Scallop Trawl	OPEN	GEN	MA	all	0	0	0		P
12	Scallop Trawl	OPEN	LIM	MA	all	0	0	0		P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	70	70			P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	0	0			P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	100	100	0		P
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	168,867	140,274	28,593	0.320	
18	Shrimp Trawl	OPEN	all	MA	all	0	0			P
19	Shrimp Trawl	OPEN	all	NE	all	4,710	0	4,710	0.294	
21	Floating Trap	OPEN	all	NE	all	0	0			P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	0	0	0		P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	0	0	0		
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xl	0	0	0		
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	5	5			P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	116,192	112,035	4,157	0.118	
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xl	206	199	7	0.507	
28	Purse Seine	OPEN	all	MA	all	0	0			P
29	Purse Seine	OPEN	all	NE	all	0	0	0		
30	Scallop Dredge	AA	GEN	MA	all	0	0	0		
31	Scallop Dredge	AA	GEN	NE	all	0	0	0		P
32	Scallop Dredge	AA	LIM	MA	all	0	0	0		
33	Scallop Dredge	AA	LIM	NE	all	0	0	0		
34	Scallop Dredge	OPEN	GEN	MA	all	0	0	0		

See text for fleet abbreviations.

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: REDFISH**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
35	Scallop Dredge	OPEN	GEN	NE	all	0	0	0		
36	Scallop Dredge	OPEN	LIM	MA	all	10	0	10	0.993	
37	Scallop Dredge	OPEN	LIM	NE	all	20	0	20	1.055	
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	0	0			P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	60	0	60	0.516	
41	Pots and Traps, Fish	OPEN	all	MA	all	41	41			P
42	Pots and Traps, Fish	OPEN	all	NE	all	0	0			P
43	Pots and Traps, Conch	OPEN	all	MA	all	0	0			P
44	Pots and Traps, Conch	OPEN	all	NE	all	0	0			P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	0	0			P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	0	0			P
48	Pots and Traps, Lobster	OPEN	all	MA	all	275	275			P
49	Pots and Traps, Lobster	OPEN	all	NE	all	4,946	0	4,946	0.116	P
50	Pots and Traps, Crab	OPEN	all	MA	all	0	0			P
51	Pots and Traps, Crab	OPEN	all	NE	all	0	0			P
52	Beam Trawl	OPEN	all	MA	all	0	0			P
53	Beam Trawl	OPEN	all	NE	all	85	85			P
54	Dredge, Other	OPEN	all	MA	all	0	0			P
55	Ocean Quahog/Surflclam Dredge	OPEN	all	MA	all	0	0			P
56	Ocean Quahog/Surflclam Dredge	OPEN	all	NE	all	0	0			P
Confidential fleets						0	0	0		
Other minor fleets						0	0			
TOTAL						6,101,677	5,666,450	435,227	0.262	

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: WHITE HAKE**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
1	Longline	OPEN	all	MA	all	0	0			P
2	Longline	OPEN	all	NE	all	10,905	10,557	348	0.603	
3	Hand Line	OPEN	all	MA	all	0	0			P
4	Hand Line	OPEN	all	NE	all	218	218	0		
5	Otter Trawl	OPEN	all	MA	sm	5,782	5,169	613	0.555	
6	Otter Trawl	OPEN	all	MA	lg	41	41	0		
7	Otter Trawl	OPEN	all	NE	sm	7,263	6,703	560	0.528	
8	Otter Trawl	OPEN	all	NE	lg	3,731,315	3,701,148	30,167	0.167	
9	Scallop Trawl	AA	GEN	MA	all	0	0	0		P
11	Scallop Trawl	OPEN	GEN	MA	all	0	0	0		P
12	Scallop Trawl	OPEN	LIM	MA	all	0	0	0		P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	0	0			P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	0	0			P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	945	945	0		P
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	61,819	61,439	380	0.753	
18	Shrimp Trawl	OPEN	all	MA	all	0	0			P
19	Shrimp Trawl	OPEN	all	NE	all	741	50	691	0.928	
21	Floating Trap	OPEN	all	NE	all	0	0			P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	0	0	0		P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	0	0	0		
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlg	0	0	0		
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	115	115			P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	974,048	932,926	41,122	0.108	
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlg	27,576	25,540	2,036	0.242	
28	Purse Seine	OPEN	all	MA	all	0	0			P
29	Purse Seine	OPEN	all	NE	all	0	0	0		
30	Scallop Dredge	AA	GEN	MA	all	8	0	8	1.114	
31	Scallop Dredge	AA	GEN	NE	all	3	0	3	2.248	P
32	Scallop Dredge	AA	LIM	MA	all	157	0	157	0.627	
33	Scallop Dredge	AA	LIM	NE	all	1,965	0	1,965	0.369	
34	Scallop Dredge	OPEN	GEN	MA	all	0	0	0		

See text for fleet abbreviations.

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: WHITE HAKE**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
35	Scallop Dredge	OPEN	GEN	NE	all	301	0	301	0.559	
36	Scallop Dredge	OPEN	LIM	MA	all	45	0	45	0.631	
37	Scallop Dredge	OPEN	LIM	NE	all	5,286	0	5,286	0.731	
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	0	0			P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	14	0	14	0.923	
41	Pots and Traps, Fish	OPEN	all	MA	all	0	0			P
42	Pots and Traps, Fish	OPEN	all	NE	all	0	0			P
43	Pots and Traps, Conch	OPEN	all	MA	all	0	0			P
44	Pots and Traps, Conch	OPEN	all	NE	all	0	0			P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	0	0			P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	0	0			P
48	Pots and Traps, Lobster	OPEN	all	MA	all	0	0			P
49	Pots and Traps, Lobster	OPEN	all	NE	all	40,401	64	40,337	0.002	P
50	Pots and Traps, Crab	OPEN	all	MA	all	0	0			P
51	Pots and Traps, Crab	OPEN	all	NE	all	0	0			P
52	Beam Trawl	OPEN	all	MA	all	0	0			P
53	Beam Trawl	OPEN	all	NE	all	0	0			P
54	Dredge, Other	OPEN	all	MA	all	0	0			P
55	Ocean Quahog/Surflclam Dredge	OPEN	all	MA	all	0	0			P
56	Ocean Quahog/Surflclam Dredge	OPEN	all	NE	all	0	0			P
Confidential fleets						4	4	0		
Other minor fleets						0	0			
TOTAL						4,868,953	4,744,919	124,034	0.063	

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: WINDOWPANE FLOUNDER**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
1	Longline	OPEN	all	MA	all	0	0			P
2	Longline	OPEN	all	NE	all	0	0	0		
3	Hand Line	OPEN	all	MA	all	0	0			P
4	Hand Line	OPEN	all	NE	all	0	0	0		
5	Otter Trawl	OPEN	all	MA	sm	143,211	3,068	140,143	0.206	
6	Otter Trawl	OPEN	all	MA	lg	794,573	44,807	749,766	0.221	
7	Otter Trawl	OPEN	all	NE	sm	42,559	0	42,559	0.416	
8	Otter Trawl	OPEN	all	NE	lg	510,488	208	510,280	0.078	
9	Scallop Trawl	AA	GEN	MA	all	45	0	45	0.784	P
11	Scallop Trawl	OPEN	GEN	MA	all	105,004	60	104,944	0.059	P
12	Scallop Trawl	OPEN	LIM	MA	all	947	0	947	0.000	P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	0	0			P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	0	0			P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	2,160	0	2,160	0.182	P
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	2,856	0	2,856	0.762	
18	Shrimp Trawl	OPEN	all	MA	all	0	0			P
19	Shrimp Trawl	OPEN	all	NE	all	2,186	0	2,186	0.347	
21	Floating Trap	OPEN	all	NE	all	0	0			P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	323	323	0		P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	1,396	61	1,335	0.531	
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlg	53	40	13	0.735	
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	0	0			P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	2,608	1	2,607	0.099	
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlg	65	0	65	0.341	
28	Purse Seine	OPEN	all	MA	all	0	0			P
29	Purse Seine	OPEN	all	NE	all	0	0	0		
30	Scallop Dredge	AA	GEN	MA	all	80	0	80	0.535	
31	Scallop Dredge	AA	GEN	NE	all	71	0	71	0.536	P
32	Scallop Dredge	AA	LIM	MA	all	8,811	0	8,811	0.692	
33	Scallop Dredge	AA	LIM	NE	all	41,651	0	41,651	0.303	
34	Scallop Dredge	OPEN	GEN	MA	all	25,871	0	25,871	0.570	

See text for fleet abbreviations.

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: WINDOWPANE FLOUNDER**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
35	Scallop Dredge	OPEN	GEN	NE	all	3,480	0	3,480	0.390	
36	Scallop Dredge	OPEN	LIM	MA	all	106,782	0	106,782	0.254	
37	Scallop Dredge	OPEN	LIM	NE	all	121,539	0	121,539	0.249	
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	0	0			P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	0	0	0		
41	Pots and Traps, Fish	OPEN	all	MA	all	0	0			P
42	Pots and Traps, Fish	OPEN	all	NE	all	0	0			P
43	Pots and Traps, Conch	OPEN	all	MA	all	0	0			P
44	Pots and Traps, Conch	OPEN	all	NE	all	0	0			P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	0	0			P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	0	0			P
48	Pots and Traps, Lobster	OPEN	all	MA	all	0	0			P
49	Pots and Traps, Lobster	OPEN	all	NE	all	0	0	0		P
50	Pots and Traps, Crab	OPEN	all	MA	all	0	0			P
51	Pots and Traps, Crab	OPEN	all	NE	all	0	0			P
52	Beam Trawl	OPEN	all	MA	all	0	0			P
53	Beam Trawl	OPEN	all	NE	all	0	0			P
54	Dredge, Other	OPEN	all	MA	all	0	0			P
55	Ocean Quahog/Surflclam Dredge	OPEN	all	MA	all	0	0			P
56	Ocean Quahog/Surflclam Dredge	OPEN	all	NE	all	0	0			P
Confidential fleets						4,998	0	4,998	0.580	
Other minor fleets						0	0			
TOTAL						1,921,758	48,568	1,873,190	0.096	

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: WINTER FLOUNDER**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
1	Longline	OPEN	all	MA	all	0	0			P
2	Longline	OPEN	all	NE	all	1,893	167	1,726	0.580	
3	Hand Line	OPEN	all	MA	all	157	157			P
4	Hand Line	OPEN	all	NE	all	177	177	0		
5	Otter Trawl	OPEN	all	MA	sm	240,271	4,027	236,244	0.420	
6	Otter Trawl	OPEN	all	MA	lg	305,146	14,644	290,502	0.354	
7	Otter Trawl	OPEN	all	NE	sm	138,260	113	138,147	0.307	
8	Otter Trawl	OPEN	all	NE	lg	4,968,987	4,438,029	530,958	0.122	
9	Scallop Trawl	AA	GEN	MA	all	0	0	0		P
11	Scallop Trawl	OPEN	GEN	MA	all	136,493	0	136,493	0.073	P
12	Scallop Trawl	OPEN	LIM	MA	all	1,495	0	1,495	0.000	P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	30	30			P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	0	0			P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	7,916	7,903	13	0.289	P
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	134,530	133,664	866	0.409	
18	Shrimp Trawl	OPEN	all	MA	all	0	0			P
19	Shrimp Trawl	OPEN	all	NE	all	2,797	0	2,797	0.286	
21	Floating Trap	OPEN	all	NE	all	0	0			P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	0	0	0		P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	704	60	644	1.062	
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xl	50	11	39	0.913	
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	11	11			P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	85,456	78,630	6,826	0.121	
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xl	1,339	966	373	0.356	
28	Purse Seine	OPEN	all	MA	all	0	0			P
29	Purse Seine	OPEN	all	NE	all	0	0	0		
30	Scallop Dredge	AA	GEN	MA	all	95	0	95	0.660	
31	Scallop Dredge	AA	GEN	NE	all	1,260	0	1,260	0.532	P
32	Scallop Dredge	AA	LIM	MA	all	12,796	48	12,748	0.360	
33	Scallop Dredge	AA	LIM	NE	all	188,209	1,274	186,935	0.181	
34	Scallop Dredge	OPEN	GEN	MA	all	10,073	0	10,073	0.443	

See text for fleet abbreviations.

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: WINTER FLOUNDER**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
35	Scallop Dredge	OPEN	GEN	NE	all	6,171	23	6,148	0.210	
36	Scallop Dredge	OPEN	LIM	MA	all	12,178	345	11,833	0.382	
37	Scallop Dredge	OPEN	LIM	NE	all	207,151	3,158	203,993	0.167	
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	0	0			P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	0	0	0		
41	Pots and Traps, Fish	OPEN	all	MA	all	500	500			P
42	Pots and Traps, Fish	OPEN	all	NE	all	53	53			P
43	Pots and Traps, Conch	OPEN	all	MA	all	0	0			P
44	Pots and Traps, Conch	OPEN	all	NE	all	0	0			P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	0	0			P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	0	0			P
48	Pots and Traps, Lobster	OPEN	all	MA	all	2	2			P
49	Pots and Traps, Lobster	OPEN	all	NE	all	1	1	0		P
50	Pots and Traps, Crab	OPEN	all	MA	all	0	0			P
51	Pots and Traps, Crab	OPEN	all	NE	all	0	0			P
52	Beam Trawl	OPEN	all	MA	all	0	0			P
53	Beam Trawl	OPEN	all	NE	all	1,955	1,955			P
54	Dredge, Other	OPEN	all	MA	all	0	0			P
55	Ocean Quahog/Surflclam Dredge	OPEN	all	MA	all	0	0			P
56	Ocean Quahog/Surflclam Dredge	OPEN	all	NE	all	0	0			P
Confidential fleets						1,583	0	1,583	0.375	
Other minor fleets						0	0			
TOTAL						6,467,739	4,685,948	1,781,791	0.095	

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: WITCH FLOUNDER**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
1	Longline	OPEN	all	MA	all	0	0			P
2	Longline	OPEN	all	NE	all	0	0	0		
3	Hand Line	OPEN	all	MA	all	0	0			P
4	Hand Line	OPEN	all	NE	all	0	0	0		
5	Otter Trawl	OPEN	all	MA	sm	198,372	53	198,319	0.372	
6	Otter Trawl	OPEN	all	MA	lg	8,944	1,803	7,141	0.435	
7	Otter Trawl	OPEN	all	NE	sm	13,925	4,409	9,516	0.510	
8	Otter Trawl	OPEN	all	NE	lg	2,039,661	1,908,042	131,619	0.070	
9	Scallop Trawl	AA	GEN	MA	all	14	0	14	0.784	P
11	Scallop Trawl	OPEN	GEN	MA	all	0	0	0		P
12	Scallop Trawl	OPEN	LIM	MA	all	0	0	0		P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	0	0			P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	0	0			P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	989	931	58	0.289	P
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	23,773	22,133	1,640	0.294	
18	Shrimp Trawl	OPEN	all	MA	all	0	0			P
19	Shrimp Trawl	OPEN	all	NE	all	1,832	0	1,832	0.488	
21	Floating Trap	OPEN	all	NE	all	0	0			P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	0	0	0		P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	0	0	0		
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlg	3	3	0		
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	25	25			P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	13,382	12,641	741	0.084	
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlg	10,267	10,206	61	0.509	
28	Purse Seine	OPEN	all	MA	all	0	0			P
29	Purse Seine	OPEN	all	NE	all	0	0	0		
30	Scallop Dredge	AA	GEN	MA	all	23	0	23	0.585	
31	Scallop Dredge	AA	GEN	NE	all	0	0	0		P
32	Scallop Dredge	AA	LIM	MA	all	2,873	0	2,873	0.328	
33	Scallop Dredge	AA	LIM	NE	all	17,724	286	17,438	0.301	
34	Scallop Dredge	OPEN	GEN	MA	all	1,002	0	1,002	1.486	

See text for fleet abbreviations.

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: WITCH FLOUNDER**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
35	Scallop Dredge	OPEN	GEN	NE	all	770	0	770	0.456	
36	Scallop Dredge	OPEN	LIM	MA	all	2,816	0	2,816	0.272	
37	Scallop Dredge	OPEN	LIM	NE	all	41,246	435	40,811	0.467	
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	0	0			P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	0	0	0		
41	Pots and Traps, Fish	OPEN	all	MA	all	0	0			P
42	Pots and Traps, Fish	OPEN	all	NE	all	1	1			P
43	Pots and Traps, Conch	OPEN	all	MA	all	0	0			P
44	Pots and Traps, Conch	OPEN	all	NE	all	0	0			P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	0	0			P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	0	0			P
48	Pots and Traps, Lobster	OPEN	all	MA	all	0	0			P
49	Pots and Traps, Lobster	OPEN	all	NE	all	0	0	0		P
50	Pots and Traps, Crab	OPEN	all	MA	all	0	0			P
51	Pots and Traps, Crab	OPEN	all	NE	all	0	0			P
52	Beam Trawl	OPEN	all	MA	all	0	0			P
53	Beam Trawl	OPEN	all	NE	all	1,725	1,725			P
54	Dredge, Other	OPEN	all	MA	all	0	0			P
55	Ocean Quahog/Surflclam Dredge	OPEN	all	MA	all	0	0			P
56	Ocean Quahog/Surflclam Dredge	OPEN	all	NE	all	0	0			P
Confidential fleets						0	0	0		
Other minor fleets						0	0			
TOTAL						2,379,366	1,962,693	416,673	0.185	

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: YELLOWTAIL FLOUNDER**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
1	Longline	OPEN	all	MA	all	0	0			P
2	Longline	OPEN	all	NE	all	1,218	1,218	0		
3	Hand Line	OPEN	all	MA	all	0	0			P
4	Hand Line	OPEN	all	NE	all	3	3	0		
5	Otter Trawl	OPEN	all	MA	sm	32,624	130	32,494	0.597	
6	Otter Trawl	OPEN	all	MA	lg	52,257	32,306	19,951	0.616	
7	Otter Trawl	OPEN	all	NE	sm	55,243	86	55,157	0.376	
8	Otter Trawl	OPEN	all	NE	lg	4,037,806	3,754,845	282,961	0.076	
9	Scallop Trawl	AA	GEN	MA	all	5	0	5	0.879	P
11	Scallop Trawl	OPEN	GEN	MA	all	29,907	1,883	28,024	0.121	P
12	Scallop Trawl	OPEN	LIM	MA	all	0	0	0		P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	50	50			P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	0	0			P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	9,353	7,971	1,382	0.170	P
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	42,901	40,138	2,763	0.454	
18	Shrimp Trawl	OPEN	all	MA	all	0	0			P
19	Shrimp Trawl	OPEN	all	NE	all	5,987	0	5,987	0.439	
21	Floating Trap	OPEN	all	NE	all	0	0			P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	0	0	0		P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	0	0	0		
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlg	38	15	23	0.913	
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	0	0			P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	340,609	306,044	34,565	0.086	
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlg	2,651	2,010	641	0.252	
28	Purse Seine	OPEN	all	MA	all	0	0			P
29	Purse Seine	OPEN	all	NE	all	0	0	0		
30	Scallop Dredge	AA	GEN	MA	all	104	0	104	0.429	
31	Scallop Dredge	AA	GEN	NE	all	219	61	158	0.536	P
32	Scallop Dredge	AA	LIM	MA	all	7,410	3,442	3,968	0.326	
33	Scallop Dredge	AA	LIM	NE	all	76,601	19,217	57,384	0.220	
34	Scallop Dredge	OPEN	GEN	MA	all	7,802	5	7,797	0.895	

See text for fleet abbreviations.

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: YELLOWTAIL FLOUNDER**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
35	Scallop Dredge	OPEN	GEN	NE	all	5,350	10	5,340	0.213	
36	Scallop Dredge	OPEN	LIM	MA	all	45,465	1,187	44,278	0.202	
37	Scallop Dredge	OPEN	LIM	NE	all	236,694	5,249	231,445	0.255	
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	0	0			P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	2	0	2	0.647	
41	Pots and Traps, Fish	OPEN	all	MA	all	0	0			P
42	Pots and Traps, Fish	OPEN	all	NE	all	0	0			P
43	Pots and Traps, Conch	OPEN	all	MA	all	0	0			P
44	Pots and Traps, Conch	OPEN	all	NE	all	0	0			P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	0	0			P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	0	0			P
48	Pots and Traps, Lobster	OPEN	all	MA	all	0	0			P
49	Pots and Traps, Lobster	OPEN	all	NE	all	0	0	0		P
50	Pots and Traps, Crab	OPEN	all	MA	all	0	0			P
51	Pots and Traps, Crab	OPEN	all	NE	all	0	0			P
52	Beam Trawl	OPEN	all	MA	all	0	0			P
53	Beam Trawl	OPEN	all	NE	all	13,510	13,510			P
54	Dredge, Other	OPEN	all	MA	all	0	0			P
55	Ocean Quahog/Surfclam Dredge	OPEN	all	MA	all	0	0			P
56	Ocean Quahog/Surfclam Dredge	OPEN	all	NE	all	1,310	1,310			P
Confidential fleets						7,498	6,380	1,118	0.717	
Other minor fleets						0	0			
TOTAL						5,012,618	4,197,070	815,548	0.089	

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: OFFSHORE HAKE**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
1	Longline	OPEN	all	MA	all	0	0			P
2	Longline	OPEN	all	NE	all	0	0	0		
3	Hand Line	OPEN	all	MA	all	0	0			P
4	Hand Line	OPEN	all	NE	all	15	15	0		
5	Otter Trawl	OPEN	all	MA	sm	38,680	23,840	14,840	0.719	
6	Otter Trawl	OPEN	all	MA	lg	2,354	2,217	137	0.987	
7	Otter Trawl	OPEN	all	NE	sm	35,717	35,713	4	0.660	
8	Otter Trawl	OPEN	all	NE	lg	3,169	2,520	649	0.292	
9	Scallop Trawl	AA	GEN	MA	all	0	0	0		P
11	Scallop Trawl	OPEN	GEN	MA	all	10	10	0		P
12	Scallop Trawl	OPEN	LIM	MA	all	0	0	0		P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	0	0			P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	0	0			P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	0	0	0		P
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	0	0	0		
18	Shrimp Trawl	OPEN	all	MA	all	0	0			P
19	Shrimp Trawl	OPEN	all	NE	all	0	0	0		
21	Floating Trap	OPEN	all	NE	all	0	0			P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	3	3	0		P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	3	3	0		
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlg	10	10	0		
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	0	0			P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	119	36	83	0.624	
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlg	0	0	0		
28	Purse Seine	OPEN	all	MA	all	0	0			P
29	Purse Seine	OPEN	all	NE	all	0	0	0		
30	Scallop Dredge	AA	GEN	MA	all	0	0	0		
31	Scallop Dredge	AA	GEN	NE	all	0	0	0		P
32	Scallop Dredge	AA	LIM	MA	all	0	0	0		
33	Scallop Dredge	AA	LIM	NE	all	4	0	4	0.917	
34	Scallop Dredge	OPEN	GEN	MA	all	0	0	0		

See text for fleet abbreviations.

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: OFFSHORE HAKE**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
35	Scallop Dredge	OPEN	GEN	NE	all	0	0	0		
36	Scallop Dredge	OPEN	LIM	MA	all	0	0	0		
37	Scallop Dredge	OPEN	LIM	NE	all	328	0	328	0.748	
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	0	0			P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	0	0	0		
41	Pots and Traps, Fish	OPEN	all	MA	all	0	0			P
42	Pots and Traps, Fish	OPEN	all	NE	all	0	0			P
43	Pots and Traps, Conch	OPEN	all	MA	all	0	0			P
44	Pots and Traps, Conch	OPEN	all	NE	all	0	0			P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	0	0			P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	0	0			P
48	Pots and Traps, Lobster	OPEN	all	MA	all	0	0			P
49	Pots and Traps, Lobster	OPEN	all	NE	all	0	0	0		P
50	Pots and Traps, Crab	OPEN	all	MA	all	0	0			P
51	Pots and Traps, Crab	OPEN	all	NE	all	0	0			P
52	Beam Trawl	OPEN	all	MA	all	0	0			P
53	Beam Trawl	OPEN	all	NE	all	0	0			P
54	Dredge, Other	OPEN	all	MA	all	0	0			P
55	Ocean Quahog/Surflclam Dredge	OPEN	all	MA	all	0	0			P
56	Ocean Quahog/Surflclam Dredge	OPEN	all	NE	all	0	0			P
	Confidential fleets					0	0	0		
	Other minor fleets					0	0			
	TOTAL					80,410	64,367	16,043	0.665	

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: RED HAKE**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
1	Longline	OPEN	all	MA	all	225	225			P
2	Longline	OPEN	all	NE	all	1,976	0	1,976	0.313	
3	Hand Line	OPEN	all	MA	all	5,429	5,429			P
4	Hand Line	OPEN	all	NE	all	791	791	0		
5	Otter Trawl	OPEN	all	MA	sm	1,836,994	633,711	1,203,283	0.413	
6	Otter Trawl	OPEN	all	MA	lg	92,270	81,547	10,723	0.444	
7	Otter Trawl	OPEN	all	NE	sm	1,792,162	808,612	983,550	0.272	
8	Otter Trawl	OPEN	all	NE	lg	165,191	45,121	120,070	0.102	
9	Scallop Trawl	AA	GEN	MA	all	0	0	0		P
11	Scallop Trawl	OPEN	GEN	MA	all	790	310	480	0.179	P
12	Scallop Trawl	OPEN	LIM	MA	all	2,645	0	2,645	0.000	P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	0	0			P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	0	0			P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	697	0	697	0.144	P
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	2,692	0	2,692	0.304	
18	Shrimp Trawl	OPEN	all	MA	all	440	440			P
19	Shrimp Trawl	OPEN	all	NE	all	14,836	2,660	12,176	0.274	
21	Floating Trap	OPEN	all	NE	all	15	15			P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	68	68	0		P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	174	174	0		
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlg	159	65	94	1.148	
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	0	0			P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	3,638	168	3,470	0.082	
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlg	130	0	130	0.292	
28	Purse Seine	OPEN	all	MA	all	0	0			P
29	Purse Seine	OPEN	all	NE	all	0	0	0		
30	Scallop Dredge	AA	GEN	MA	all	836	0	836	0.527	
31	Scallop Dredge	AA	GEN	NE	all	125	0	125	0.525	P
32	Scallop Dredge	AA	LIM	MA	all	15,288	0	15,288	0.464	
33	Scallop Dredge	AA	LIM	NE	all	85,800	0	85,800	0.197	
34	Scallop Dredge	OPEN	GEN	MA	all	1,316	0	1,316	0.916	

See text for fleet abbreviations.

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: RED HAKE**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
35	Scallop Dredge	OPEN	GEN	NE	all	4,570	0	4,570	0.818	
36	Scallop Dredge	OPEN	LIM	MA	all	40,550	0	40,550	0.312	
37	Scallop Dredge	OPEN	LIM	NE	all	95,988	0	95,988	0.256	
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	0	0			P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	1	0	1	0.487	
41	Pots and Traps, Fish	OPEN	all	MA	all	2,093	2,093			P
42	Pots and Traps, Fish	OPEN	all	NE	all	26	26			P
43	Pots and Traps, Conch	OPEN	all	MA	all	5	5			P
44	Pots and Traps, Conch	OPEN	all	NE	all	0	0			P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	0	0			P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	0	0			P
48	Pots and Traps, Lobster	OPEN	all	MA	all	13,226	13,226			P
49	Pots and Traps, Lobster	OPEN	all	NE	all	21,013	10,681	10,332	0.215	P
50	Pots and Traps, Crab	OPEN	all	MA	all	0	0			P
51	Pots and Traps, Crab	OPEN	all	NE	all	0	0			P
52	Beam Trawl	OPEN	all	MA	all	59	59			P
53	Beam Trawl	OPEN	all	NE	all	0	0			P
54	Dredge, Other	OPEN	all	MA	all	0	0			P
55	Ocean Quahog/Surflclam Dredge	OPEN	all	MA	all	0	0			P
56	Ocean Quahog/Surflclam Dredge	OPEN	all	NE	all	0	0			P
Confidential fleets						7	0	7	0.928	
Other minor fleets						790	790			
TOTAL						4,203,015	1,606,216	2,596,799	0.218	

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: SILVER HAKE**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
1	Longline	OPEN	all	MA	all	0	0			P
2	Longline	OPEN	all	NE	all	49	5	44	0.439	
3	Hand Line	OPEN	all	MA	all	5	5			P
4	Hand Line	OPEN	all	NE	all	667	667	0		
5	Otter Trawl	OPEN	all	MA	sm	5,837,004	4,915,830	921,174	0.281	
6	Otter Trawl	OPEN	all	MA	lg	409,130	386,643	22,487	0.349	
7	Otter Trawl	OPEN	all	NE	sm	12,588,192	10,317,746	2,270,446	0.259	
8	Otter Trawl	OPEN	all	NE	lg	471,368	269,069	202,299	0.065	
9	Scallop Trawl	AA	GEN	MA	all	1	0	1	0.879	P
11	Scallop Trawl	OPEN	GEN	MA	all	2,188	2,034	154	0.179	P
12	Scallop Trawl	OPEN	LIM	MA	all	855	0	855	0.000	P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	15	15			P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	15	15			P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	1,143	0	1,143	0.017	P
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	8,948	105	8,843	0.320	
18	Shrimp Trawl	OPEN	all	MA	all	1,800	1,800			P
19	Shrimp Trawl	OPEN	all	NE	all	294,609	37,687	256,922	0.272	
21	Floating Trap	OPEN	all	NE	all	0	0			P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	75	75	0		P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	0	0	0		
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlrg	363	293	70	0.584	
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	0	0			P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	35,064	22,968	12,096	0.114	
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlrg	1,204	769	435	0.218	
28	Purse Seine	OPEN	all	MA	all	0	0			P
29	Purse Seine	OPEN	all	NE	all	0	0	0	1.281	
30	Scallop Dredge	AA	GEN	MA	all	180	0	180	0.604	
31	Scallop Dredge	AA	GEN	NE	all	73	0	73	0.529	P
32	Scallop Dredge	AA	LIM	MA	all	3,610	0	3,610	0.221	
33	Scallop Dredge	AA	LIM	NE	all	17,343	0	17,343	0.240	
34	Scallop Dredge	OPEN	GEN	MA	all	966	0	966	0.343	

See text for fleet abbreviations.

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: SILVER HAKE**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
35	Scallop Dredge	OPEN	GEN	NE	all	2,073	0	2,073	0.279	
36	Scallop Dredge	OPEN	LIM	MA	all	13,640	0	13,640	0.254	
37	Scallop Dredge	OPEN	LIM	NE	all	17,797	0	17,797	0.258	
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	0	0			P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	620	5	615	0.915	
41	Pots and Traps, Fish	OPEN	all	MA	all	43	43			P
42	Pots and Traps, Fish	OPEN	all	NE	all	0	0			P
43	Pots and Traps, Conch	OPEN	all	MA	all	0	0			P
44	Pots and Traps, Conch	OPEN	all	NE	all	0	0			P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	0	0			P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	0	0			P
48	Pots and Traps, Lobster	OPEN	all	MA	all	0	0			P
49	Pots and Traps, Lobster	OPEN	all	NE	all	500	500	0		P
50	Pots and Traps, Crab	OPEN	all	MA	all	0	0			P
51	Pots and Traps, Crab	OPEN	all	NE	all	0	0			P
52	Beam Trawl	OPEN	all	MA	all	120	120			P
53	Beam Trawl	OPEN	all	NE	all	0	0			P
54	Dredge, Other	OPEN	all	MA	all	0	0			P
55	Ocean Quahog/Surflclam Dredge	OPEN	all	MA	all	0	0			P
56	Ocean Quahog/Surflclam Dredge	OPEN	all	NE	all	0	0			P
Confidential fleets						1,080	1,074	6	0.725	
Other minor fleets						4,630	4,630			
TOTAL						19,715,372	15,962,098	3,753,274	0.172	

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: ATLANTIC MACKEREL**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
1	Longline	OPEN	all	MA	all	0	0			P
2	Longline	OPEN	all	NE	all	0	0	0		
3	Hand Line	OPEN	all	MA	all	5,197	5,197			P
4	Hand Line	OPEN	all	NE	all	8,366	8,331	35	1.646	
5	Otter Trawl	OPEN	all	MA	sm	51,434	48,554	2,880	0.327	
6	Otter Trawl	OPEN	all	MA	lg	4,253	4,245	8	1.480	
7	Otter Trawl	OPEN	all	NE	sm	5,835,573	5,789,936	45,637	0.466	
8	Otter Trawl	OPEN	all	NE	lg	5,350	4,131	1,219	0.143	
9	Scallop Trawl	AA	GEN	MA	all	0	0	0		P
11	Scallop Trawl	OPEN	GEN	MA	all	375	0	375	0.131	P
12	Scallop Trawl	OPEN	LIM	MA	all	0	0	0		P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	0	0			P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	300	300			P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	603	0	603	0.289	P
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	27	0	27	0.873	
18	Shrimp Trawl	OPEN	all	MA	all	0	0			P
19	Shrimp Trawl	OPEN	all	NE	all	10,590	30	10,560	0.266	
21	Floating Trap	OPEN	all	NE	all	41,443	41,443			P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	21	21	0		P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	42	42	0		
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlg	14	4	10	0.910	
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	0	0			P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	5,318	3,817	1,501	0.094	
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlg	134	57	77	0.395	
28	Purse Seine	OPEN	all	MA	all	0	0			P
29	Purse Seine	OPEN	all	NE	all	188	183	5	0.831	
30	Scallop Dredge	AA	GEN	MA	all	0	0	0		
31	Scallop Dredge	AA	GEN	NE	all	0	0	0		P
32	Scallop Dredge	AA	LIM	MA	all	0	0	0		
33	Scallop Dredge	AA	LIM	NE	all	0	0	0		
34	Scallop Dredge	OPEN	GEN	MA	all	189	0	189	1.513	

See text for fleet abbreviations.

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: ATLANTIC MACKEREL**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
35	Scallop Dredge	OPEN	GEN	NE	all	0	0	0		
36	Scallop Dredge	OPEN	LIM	MA	all	115	0	115	0.806	
37	Scallop Dredge	OPEN	LIM	NE	all	34	0	34	0.788	
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	1,690,000	1,690,000			P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	3,936,332	3,936,289	43	0.237	
41	Pots and Traps, Fish	OPEN	all	MA	all	0	0			P
42	Pots and Traps, Fish	OPEN	all	NE	all	0	0			P
43	Pots and Traps, Conch	OPEN	all	MA	all	0	0			P
44	Pots and Traps, Conch	OPEN	all	NE	all	0	0			P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	0	0			P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	0	0			P
48	Pots and Traps, Lobster	OPEN	all	MA	all	0	0			P
49	Pots and Traps, Lobster	OPEN	all	NE	all	0	0	0		P
50	Pots and Traps, Crab	OPEN	all	MA	all	0	0			P
51	Pots and Traps, Crab	OPEN	all	NE	all	0	0			P
52	Beam Trawl	OPEN	all	MA	all	40	40			P
53	Beam Trawl	OPEN	all	NE	all	0	0			P
54	Dredge, Other	OPEN	all	MA	all	0	0			P
55	Ocean Quahog/Surflclam Dredge	OPEN	all	MA	all	0	0			P
56	Ocean Quahog/Surflclam Dredge	OPEN	all	NE	all	0	0			P
Confidential fleets						6	0	6	0.857	
Other minor fleets						10	10			
TOTAL						11,595,956	11,532,630	63,326	0.339	

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: BUTTERFISH**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
1	Longline	OPEN	all	MA	all	0	0			P
2	Longline	OPEN	all	NE	all	0	0	0		
3	Hand Line	OPEN	all	MA	all	0	0			P
4	Hand Line	OPEN	all	NE	all	2	2	0		
5	Otter Trawl	OPEN	all	MA	sm	2,560,346	311,560	2,248,786	0.352	
6	Otter Trawl	OPEN	all	MA	lg	76,578	73,540	3,038	0.256	
7	Otter Trawl	OPEN	all	NE	sm	2,014,070	453,852	1,560,218	0.196	
8	Otter Trawl	OPEN	all	NE	lg	77,636	71,720	5,916	0.241	
9	Scallop Trawl	AA	GEN	MA	all	0	0	0		P
11	Scallop Trawl	OPEN	GEN	MA	all	399	325	74	0.146	P
12	Scallop Trawl	OPEN	LIM	MA	all	588	0	588	0.000	P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	2	2			P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	50	50			P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	14	0	14	0.888	P
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	28	0	28	0.626	
18	Shrimp Trawl	OPEN	all	MA	all	122	122			P
19	Shrimp Trawl	OPEN	all	NE	all	39,021	2,654	36,367	0.360	
21	Floating Trap	OPEN	all	NE	all	5,118	5,118			P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	15,730	15,730	0		P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	466	466	0		
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlrg	52	52	0		
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	0	0			P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	183	97	86	0.143	
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlrg	45	0	45	0.793	
28	Purse Seine	OPEN	all	MA	all	0	0			P
29	Purse Seine	OPEN	all	NE	all	1	0	1	1.183	
30	Scallop Dredge	AA	GEN	MA	all	13	0	13	1.013	
31	Scallop Dredge	AA	GEN	NE	all	0	0	0		P
32	Scallop Dredge	AA	LIM	MA	all	46	0	46	0.485	
33	Scallop Dredge	AA	LIM	NE	all	73	0	73	0.426	
34	Scallop Dredge	OPEN	GEN	MA	all	0	0	0		

See text for fleet abbreviations.

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: BUTTERFISH**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
35	Scallop Dredge	OPEN	GEN	NE	all	0	0	0		
36	Scallop Dredge	OPEN	LIM	MA	all	432	0	432	0.555	
37	Scallop Dredge	OPEN	LIM	NE	all	737	0	737	1.018	
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	500	500			P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	28	25	3	0.448	
41	Pots and Traps, Fish	OPEN	all	MA	all	17	17			P
42	Pots and Traps, Fish	OPEN	all	NE	all	0	0			P
43	Pots and Traps, Conch	OPEN	all	MA	all	0	0			P
44	Pots and Traps, Conch	OPEN	all	NE	all	0	0			P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	0	0			P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	0	0			P
48	Pots and Traps, Lobster	OPEN	all	MA	all	0	0			P
49	Pots and Traps, Lobster	OPEN	all	NE	all	0	0	0		P
50	Pots and Traps, Crab	OPEN	all	MA	all	0	0			P
51	Pots and Traps, Crab	OPEN	all	NE	all	0	0			P
52	Beam Trawl	OPEN	all	MA	all	1,405	1,405			P
53	Beam Trawl	OPEN	all	NE	all	0	0			P
54	Dredge, Other	OPEN	all	MA	all	0	0			P
55	Ocean Quahog/Surflclam Dredge	OPEN	all	MA	all	0	0			P
56	Ocean Quahog/Surflclam Dredge	OPEN	all	NE	all	0	0			P
Confidential fleets						312	310	2	0.956	
Other minor fleets						1,410	1,410			
TOTAL						4,795,423	938,957	3,856,466	0.220	

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: ILLEX SQUID**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
1	Longline	OPEN	all	MA	all	0	0			P
2	Longline	OPEN	all	NE	all	0	0	0		
3	Hand Line	OPEN	all	MA	all	0	0			P
4	Hand Line	OPEN	all	NE	all	1	1	0		
5	Otter Trawl	OPEN	all	MA	sm	17,222,417	17,126,663	95,754	0.377	
6	Otter Trawl	OPEN	all	MA	lg	2,737	920	1,817	0.817	
7	Otter Trawl	OPEN	all	NE	sm	12,252,382	11,994,624	257,758	0.488	
8	Otter Trawl	OPEN	all	NE	lg	203,801	110,779	93,022	0.098	
9	Scallop Trawl	AA	GEN	MA	all	0	0	0		P
11	Scallop Trawl	OPEN	GEN	MA	all	0	0	0		P
12	Scallop Trawl	OPEN	LIM	MA	all	0	0	0		P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	0	0			P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	295,931	295,931			P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	11	0	11	0.688	P
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	870	0	870	0.717	
18	Shrimp Trawl	OPEN	all	MA	all	85	85			P
19	Shrimp Trawl	OPEN	all	NE	all	257	0	257	0.601	
21	Floating Trap	OPEN	all	NE	all	0	0			P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	0	0	0		P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	0	0	0		
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xl	0	0	0		
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	0	0			P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	22	0	22	0.437	
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xl	0	0	0		
28	Purse Seine	OPEN	all	MA	all	0	0			P
29	Purse Seine	OPEN	all	NE	all	184	5	179	0.939	
30	Scallop Dredge	AA	GEN	MA	all	0	0	0		
31	Scallop Dredge	AA	GEN	NE	all	0	0	0		P
32	Scallop Dredge	AA	LIM	MA	all	305	0	305	0.669	
33	Scallop Dredge	AA	LIM	NE	all	320	0	320	0.421	
34	Scallop Dredge	OPEN	GEN	MA	all	46	0	46	0.776	

See text for fleet abbreviations.

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: ILLEX SQUID**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
35	Scallop Dredge	OPEN	GEN	NE	all	0	0	0		
36	Scallop Dredge	OPEN	LIM	MA	all	819	0	819	0.586	
37	Scallop Dredge	OPEN	LIM	NE	all	306	0	306	0.472	
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	0	0			P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	205	0	205	0.582	
41	Pots and Traps, Fish	OPEN	all	MA	all	50,000	50,000			P
42	Pots and Traps, Fish	OPEN	all	NE	all	0	0			P
43	Pots and Traps, Conch	OPEN	all	MA	all	0	0			P
44	Pots and Traps, Conch	OPEN	all	NE	all	0	0			P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	0	0			P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	0	0			P
48	Pots and Traps, Lobster	OPEN	all	MA	all	0	0			P
49	Pots and Traps, Lobster	OPEN	all	NE	all	0	0	0		P
50	Pots and Traps, Crab	OPEN	all	MA	all	0	0			P
51	Pots and Traps, Crab	OPEN	all	NE	all	0	0			P
52	Beam Trawl	OPEN	all	MA	all	0	0			P
53	Beam Trawl	OPEN	all	NE	all	0	0			P
54	Dredge, Other	OPEN	all	MA	all	0	0			P
55	Ocean Quahog/Surflclam Dredge	OPEN	all	MA	all	0	0			P
56	Ocean Quahog/Surflclam Dredge	OPEN	all	NE	all	0	0			P
Confidential fleets						0	0	0		
Other minor fleets						18,200	18,200			
TOTAL						30,048,900	29,597,208	451,692	0.290	

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: *LOLIGO SQUID***

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
1	Longline	OPEN	all	MA	all	0	0			P
2	Longline	OPEN	all	NE	all	0	0	0		
3	Hand Line	OPEN	all	MA	all	4	4			P
4	Hand Line	OPEN	all	NE	all	11	11	0		
5	Otter Trawl	OPEN	all	MA	sm	11,678,476	11,036,429	642,047	0.632	
6	Otter Trawl	OPEN	all	MA	lg	453,310	438,659	14,651	0.427	
7	Otter Trawl	OPEN	all	NE	sm	12,974,629	12,723,837	250,792	0.468	
8	Otter Trawl	OPEN	all	NE	lg	217,006	195,490	21,516	0.517	
9	Scallop Trawl	AA	GEN	MA	all	3	0	3	0.879	P
11	Scallop Trawl	OPEN	GEN	MA	all	11,753	10,196	1,557	0.132	P
12	Scallop Trawl	OPEN	LIM	MA	all	100	100	0		P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	125	125			P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	161,826	161,826			P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	249	20	229	0.289	P
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	96	0	96	0.584	
18	Shrimp Trawl	OPEN	all	MA	all	4,500	4,500			P
19	Shrimp Trawl	OPEN	all	NE	all	271,431	269,374	2,057	0.391	
21	Floating Trap	OPEN	all	NE	all	867	867			P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	0	0	0		P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	0	0	0		
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlg	0	0	0		
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	0	0			P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	1,207	1,207	0		
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlg	0	0	0		
28	Purse Seine	OPEN	all	MA	all	0	0			P
29	Purse Seine	OPEN	all	NE	all	0	0	0		
30	Scallop Dredge	AA	GEN	MA	all	163	0	163	0.595	
31	Scallop Dredge	AA	GEN	NE	all	0	0	0		P
32	Scallop Dredge	AA	LIM	MA	all	1,311	4	1,307	0.242	
33	Scallop Dredge	AA	LIM	NE	all	1,572	0	1,572	0.260	

**Table 5B, continued. Total catch (live pounds), Vessel Trip Report landings (kept; live pounds), estimated discards (live pounds) and associated coefficient of variation (CV) for 23 individual species that comprise the 14 species groups, by fleet for July 2011 through June 2012. Dark shading indicates fleets not considered or with no NEFOP trips in the annual analysis. These CVs were not used in the annual sample size analyses. Blank CV indicates either no discards or discards equals 0. "P" indicates fleets with "pilot" designation.**

**Species: *LOLIGO SQUID***

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Total	Kept	Discarded	CV	Pilot
34	Scallop Dredge	OPEN	GEN	MA	all	719	45	674	1.322	
35	Scallop Dredge	OPEN	GEN	NE	all	220	0	220	0.627	
36	Scallop Dredge	OPEN	LIM	MA	all	2,264	40	2,224	0.199	
37	Scallop Dredge	OPEN	LIM	NE	all	2,253	0	2,253	0.400	
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	0	0			P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	0	0	0	0.485	
41	Pots and Traps, Fish	OPEN	all	MA	all	3,239	3,239			P
42	Pots and Traps, Fish	OPEN	all	NE	all	20	20			P
43	Pots and Traps, Conch	OPEN	all	MA	all	0	0			P
44	Pots and Traps, Conch	OPEN	all	NE	all	0	0			P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	0	0			P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	0	0			P
48	Pots and Traps, Lobster	OPEN	all	MA	all	0	0			P
49	Pots and Traps, Lobster	OPEN	all	NE	all	73	73	0		P
50	Pots and Traps, Crab	OPEN	all	MA	all	0	0			P
51	Pots and Traps, Crab	OPEN	all	NE	all	0	0			P
52	Beam Trawl	OPEN	all	MA	all	336	336			P
53	Beam Trawl	OPEN	all	NE	all	0	0			P
54	Dredge, Other	OPEN	all	MA	all	0	0			P
55	Ocean Quahog/Surfcclam Dredge	OPEN	all	MA	all	0	0			P
56	Ocean Quahog/Surfcclam Dredge	OPEN	all	NE	all	0	0			P
Confidential fleets						454	449	5	0.000	
Other minor fleets						200,329	200,329			
TOTAL						25,988,546	25,047,180	941,366	0.449	

**Table 6. The number of sea days needed to achieve a 30% CV of the discard estimate for each the 14 fish and invertebrate species groups, the number of pilot sea days, the number of minimum pilot sea days, and the maximum number of sea days needed for each fleet (2013 Sea Days Needed) for fish and invertebrate species groups based on July 2011 through June 2012 data. Bold red font indicates basis for fleet sea days. "P" indicates fleets with "pilot" designation. Species group abbreviation are given in Table 1.**

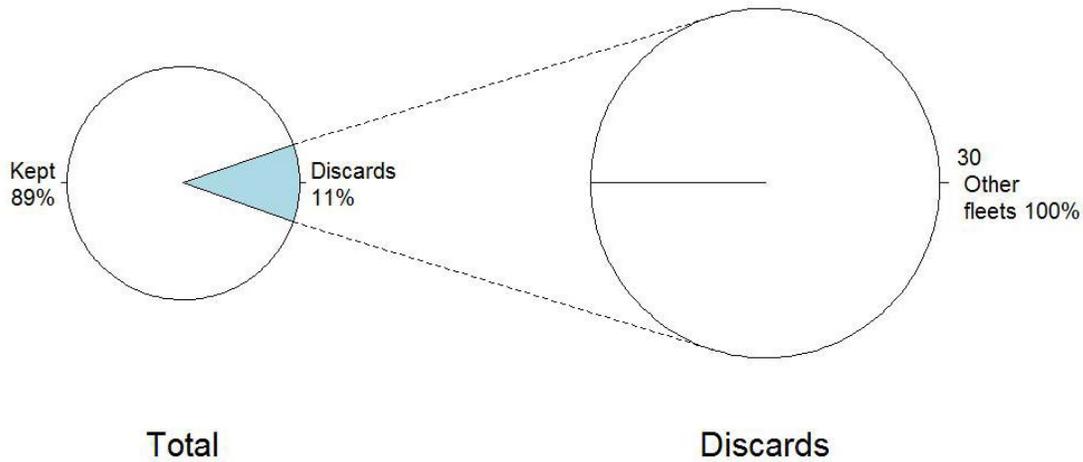
Row	Gear Type	Access Area	Trip Category	Region	Mesh	BLUE	HERR	SAL	RCRAB	SCAL	SBM	MONK	GFL	GFS	SKATE	DOG	FSB	SCOQ	TILE	Pilot Days	Min. Pilot Days	2013 Sea Days Needed	Pilot	
1	Longline	OPEN	all	MA	all	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	P
2	Longline	OPEN	all	NE	all	0	0	0	0	0	0	0	0	0	0	126	0	0	0	0	26	15	126	
3	Hand Line	OPEN	all	MA	all	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	P
4	Hand Line	OPEN	all	NE	all	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59	14	14	
5	Otter Trawl	OPEN	all	MA	sm	0	0	0	1,408	0	458	336	409	480	225	583	212	0	0	154	29	1,408		
6	Otter Trawl	OPEN	all	MA	lg	0	0	0	0	0	0	0	200	0	69	224	341	0	0	245	27	341		
7	Otter Trawl	OPEN	all	NE	sm	0	0	0	0	0	233	0	431	360	530	233	500	0	0	170	31	530		
8	Otter Trawl	OPEN	all	NE	lg	0	0	0	5,290	0	0	220	109	300	194	266	496	0	0	460	34	5,290		
9	Scallop Trawl	AA	GEN	MA	all	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	P
10	Scallop Trawl	AA	LIM	MA	all	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	P
11	Scallop Trawl	OPEN	GEN	MA	all	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	P
12	Scallop Trawl	OPEN	LIM	MA	all	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	P
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	P
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	P
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	P
16	Otter Trawl, Haddock Separator	OPEN	all	MA	lg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3	
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106	106	106	
18	Shrimp Trawl	OPEN	all	MA	all	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	P
19	Shrimp Trawl	OPEN	all	NE	all	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	35	13	18	
20	Floating Trap	OPEN	all	MA	all	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	P
21	Floating Trap	OPEN	all	NE	all	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	P
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	P
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	0	0	0	0	0	0	0	0	0	0	36	0	0	0	0	46	13	36	
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlg	0	0	0	0	0	0	83	0	0	0	0	0	0	0	0	67	14	83	
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	P
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	0	0	0	0	0	0	0	69	0	0	65	0	0	0	0	159	15	69	
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlg	0	0	0	0	0	0	165	0	0	72	95	0	0	0	0	102	18	165	
28	Purse Seine	OPEN	all	MA	all	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	9	11	P
29	Purse Seine	OPEN	all	NE	all	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	20	20	
30	Scallop Dredge	AA	GEN	MA	all	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	22	22	
31	Scallop Dredge	AA	GEN	NE	all	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	P
32	Scallop Dredge	AA	LIM	MA	all	0	0	0	0	0	0	157	0	0	149	0	0	0	0	0	111	99	157	
33	Scallop Dredge	AA	LIM	NE	all	0	0	0	0	392	0	108	0	0	91	0	152	0	0	128	102	392		
34	Scallop Dredge	OPEN	GEN	MA	all	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72	18	18	
35	Scallop Dredge	OPEN	GEN	NE	all	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	91	16	16	
36	Scallop Dredge	OPEN	LIM	MA	all	0	0	0	0	0	0	134	0	0	214	0	0	0	0	0	132	109	214	
37	Scallop Dredge	OPEN	LIM	NE	all	0	0	0	0	222	0	221	158	0	160	789	723	0	0	200	112	789		
38+	Danish Seine	OPEN	all	MA	all	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	P
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	P
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	39	39	
41	Pots and Traps, Fish	OPEN	all	MA	all	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	13	26	P
42	Pots and Traps, Fish	OPEN	all	NE	all	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	12	23	P
43	Pots and Traps, Conch	OPEN	all	MA	all	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	12	24	P
44	Pots and Traps, Conch	OPEN	all	NE	all	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	12	29	P
45	Pots and Traps, Hagfish	OPEN	all	MA	all	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	P
46	Pots and Traps, Hagfish	OPEN	all	NE	all	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	P
47	Pots and Traps, Shrimp	OPEN	all	NE	all	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	P
48	Pots and Traps, Lobster	OPEN	all	MA	all	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	16	65	P
49	Pots and Traps, Lobster	OPEN	all	NE	all	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	16	445	P
50	Pots and Traps, Crab	OPEN	all	MA	all	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	P
51	Pots and Traps, Crab	OPEN	all	NE	all	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	P
52	Beam Trawl	OPEN	all	MA	all	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	P
53	Beam Trawl	OPEN	all	NE	all	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	P
54	Dredge, Other	OPEN	all	MA	all	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	P
55	Ocean Quahog/Surfclam Dredge	OPEN	all	MA	all	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	23	88	P
56	Ocean Quahog/Surfclam Dredge	OPEN	all	NE	all	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	13	48	P
<b>Total</b>						<b>1,643</b>	<b>1,643</b>	<b>1,643</b>	<b>8,341</b>	<b>2,257</b>	<b>2,334</b>	<b>3,067</b>	<b>3,019</b>	<b>2,801</b>	<b>3,347</b>	<b>4,060</b>	<b>4,067</b>	<b>1,643</b>	<b>1,643</b>	<b>4,100</b>	<b>1,770</b>	<b>11,499</b>		

See text for fleet abbreviations; "+" = new fleets in 2013.

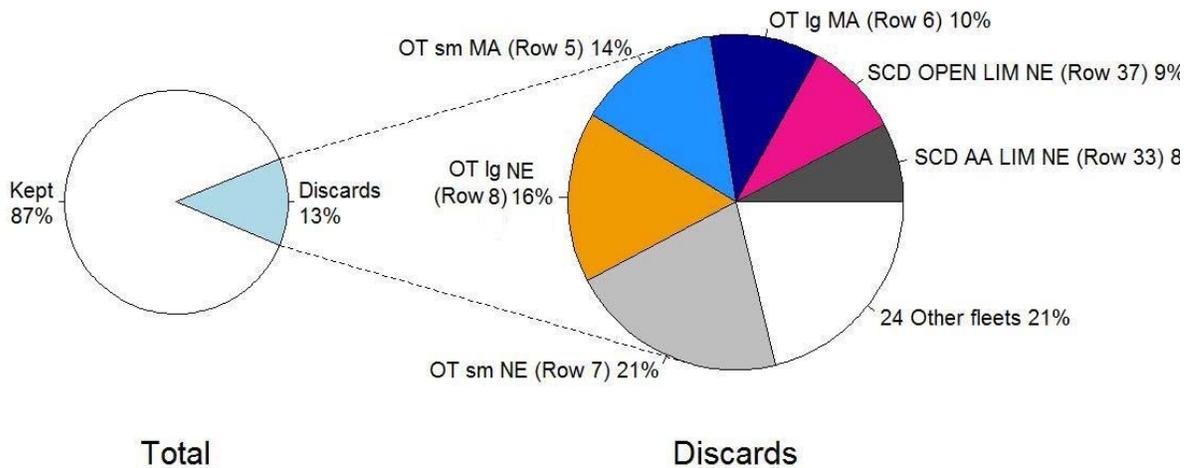
**Table 7. Number of sea days, trips, and percentage of trips (based upon previous industry activity) needed to achieve a 30% CV of the discard estimate, by fleet and species group, based on July 2011 through June 2012 data. See Table 1 and Appendix Table 4 for species group and fleet abbreviations, respectively.**

Row	FLEET	Species		Trips	% of Trips
		Group	Sea Days		
2	LL NE	DOG	126	110	10
5	OT sm MA	RCRAB	1407	630	18
		DOG	583	261	8
		GFS	480	215	6
		SBM	458	205	6
		GFL	409	183	5
		MONK	336	150	4
		SKATE	225	101	3
		FSB	212	95	3
6	OT lg MA	FSB	341	160	3
		DOG	224	105	2
		GFL	200	94	2
		SKATE	69	33	1
7	OT sm NE	SKATE	530	211	6
		FSB	500	199	6
		GFL	431	171	5
		GFS	360	143	4
		DOG	233	92	3
		SBM	233	92	3
8	OT lg NE	RCRAB	5290	1915	23
		FSB	496	179	2
		GFS	300	109	1
		DOG	266	96	1
		MONK	220	80	1
		SKATE	194	70	1
		GFL	109	39	<1
19	SHT NE	GFS	18	18	1
23	GN lg MA	DOG	35	33	2
24	GN xlg MA	MONK	83	71	2
26	GN lg NE	GFL	69	56	1
		DOG	65	53	1
27	GN xlg NE	MONK	165	114	3
		DOG	95	65	2
		SKATE	72	50	1
32	SCD AA LIM MA	MONK	157	19	3
		SKATE	149	18	3
33	SCD AA LIM NE	SCAL	392	47	7
		FSB	152	18	3
		MONK	108	13	2
		SKATE	91	11	2
36	SCD OPEN LIM MA	SKATE	214	23	4
		MONK	134	14	2
37	SCD OPEN LIM NE	DOG	789	83	8
		FSB	723	76	8
		SCAL	222	23	2
		MONK	221	23	2
		SKATE	160	17	2
		GFL	158	16	2

## SPECIES: BLUEFISH

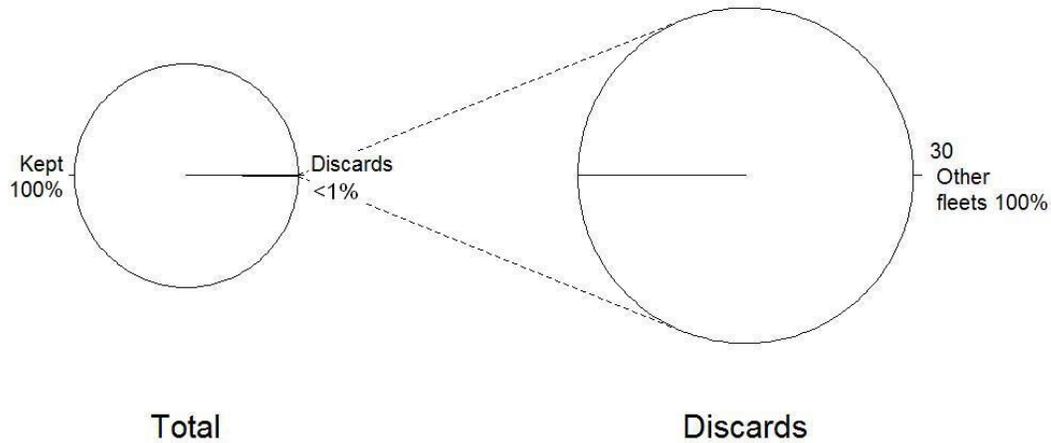


## SPECIES: FLUKE - SCUP - BLACK SEA BASS



**Figure 1A. Percentage of Vessel Trip Report landings (kept) and estimated discards (Total, left pie) and the percentage of estimated discards by fleet (Discards, right pie) for each of the 14 species groups (except Atlantic salmon) for July 2011 through June 2012. See Appendix Table 4 for fleet abbreviations.**

## SPECIES: HERRING, ATLANTIC



## SPECIES: LARGE MESH GROUND FISH

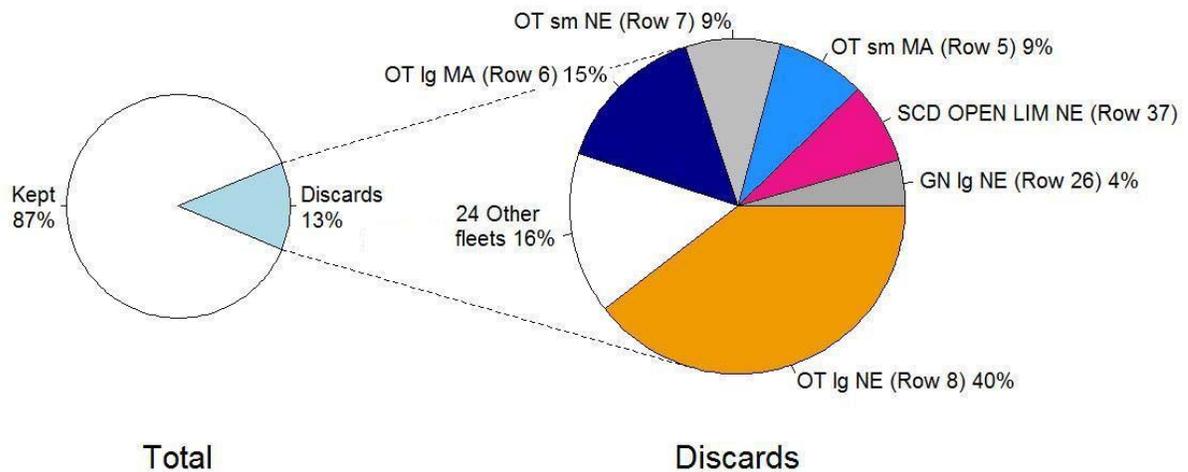
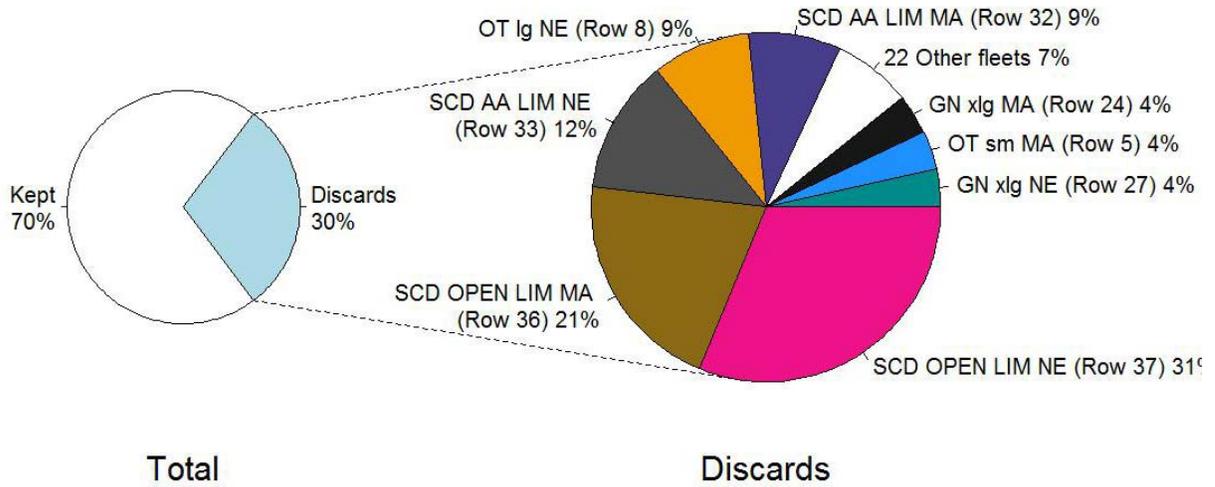


Figure 1A, continued. Percentage of Vessel Trip Report landings (kept) and estimated discards (Total, left pie) and the percentage of estimated discards by fleet (Discards, right pie) for each of the 14 species groups (except Atlantic salmon) for July 2011 through June 2012. See Appendix Table 4 for fleet abbreviations.

## SPECIES: MONKFISH



## SPECIES: RED CRAB

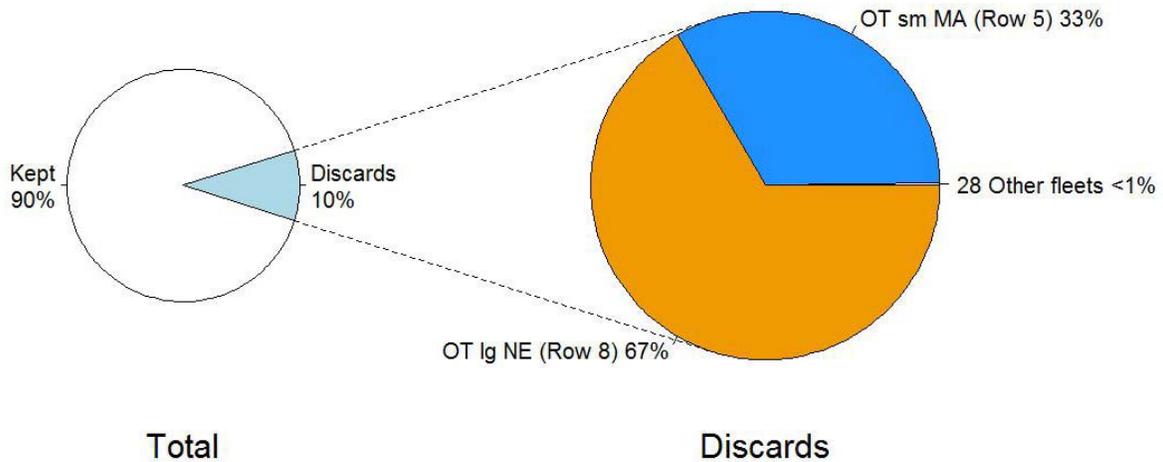
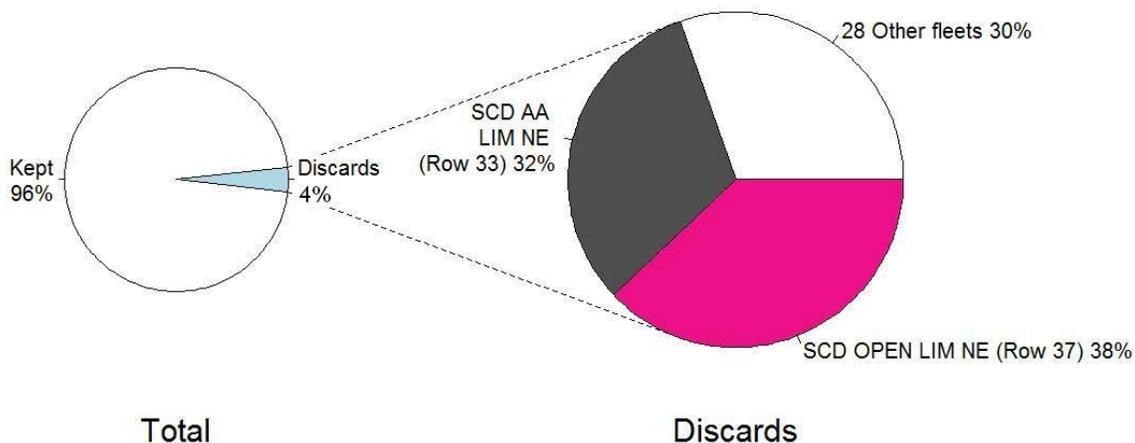


Figure 1A, continued. Percentage of Vessel Trip Report landings (kept) and estimated discards (Total, left pie) and the percentage of estimated discards by fleet (Discards, right pie) for each of the 14 species groups (except Atlantic salmon) for July 2011 through June 2012. See Appendix Table 4 for fleet abbreviations.

## SPECIES: SEA SCALLOP



## SPECIES: SKATE COMPLEX

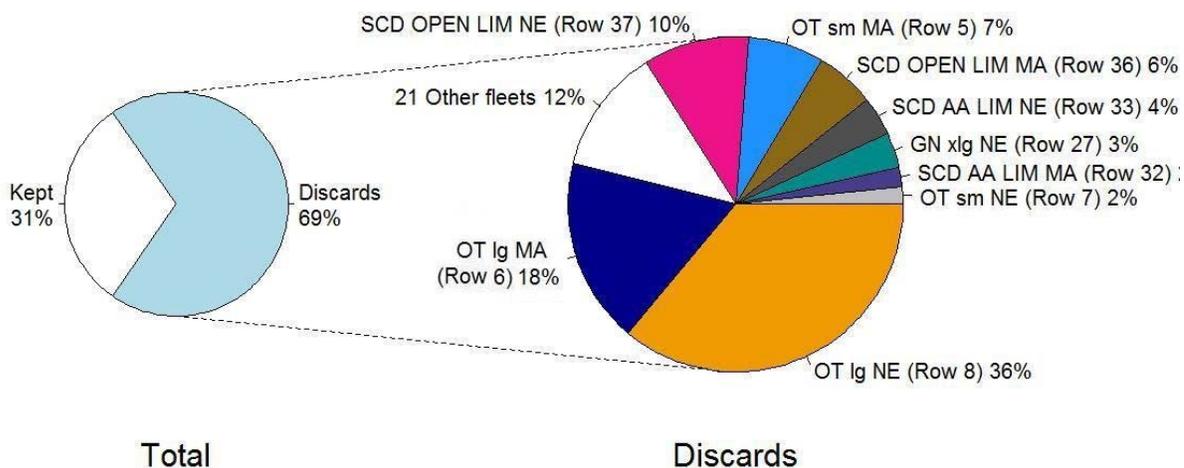
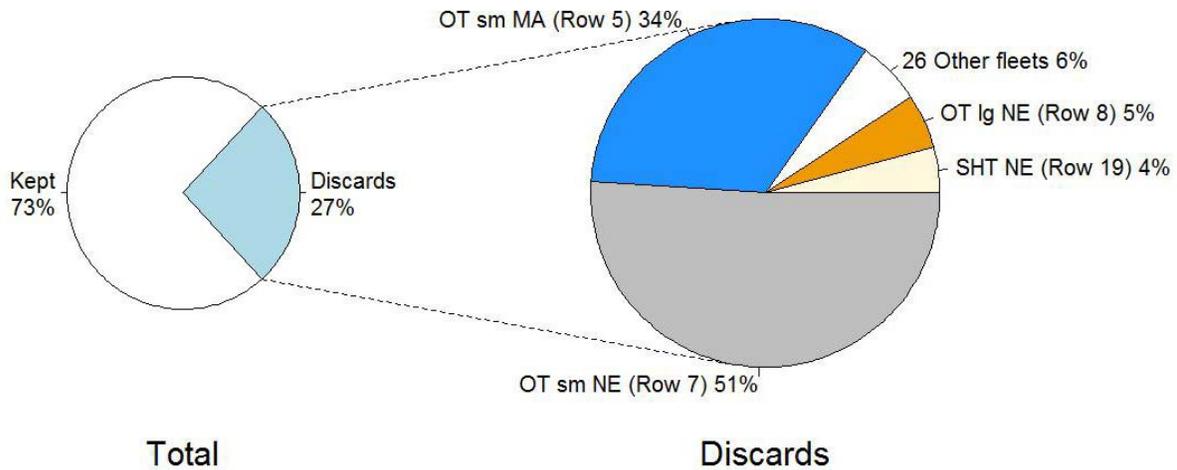


Figure 1A, continued. Percentage of Vessel Trip Report landings (kept) and estimated discards (Total, left pie) and the percentage of estimated discards by fleet (Discards, right pie) for each of the 14 species groups (except Atlantic salmon) for July 2011 through June 2012. See Appendix Table 4 for fleet abbreviations.

## SPECIES: SMALL MESH GROUND FISH



## SPECIES: SPINY DOGFISH

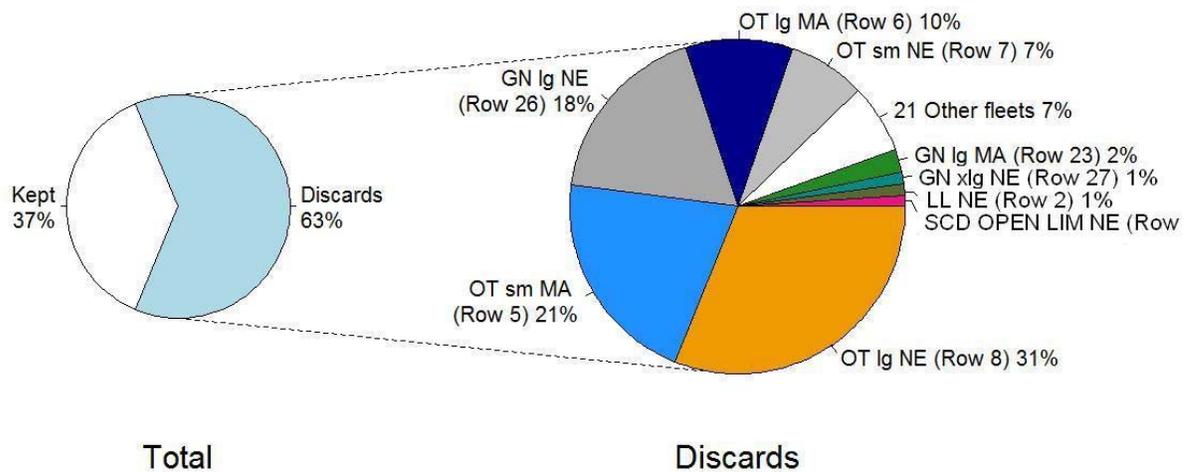
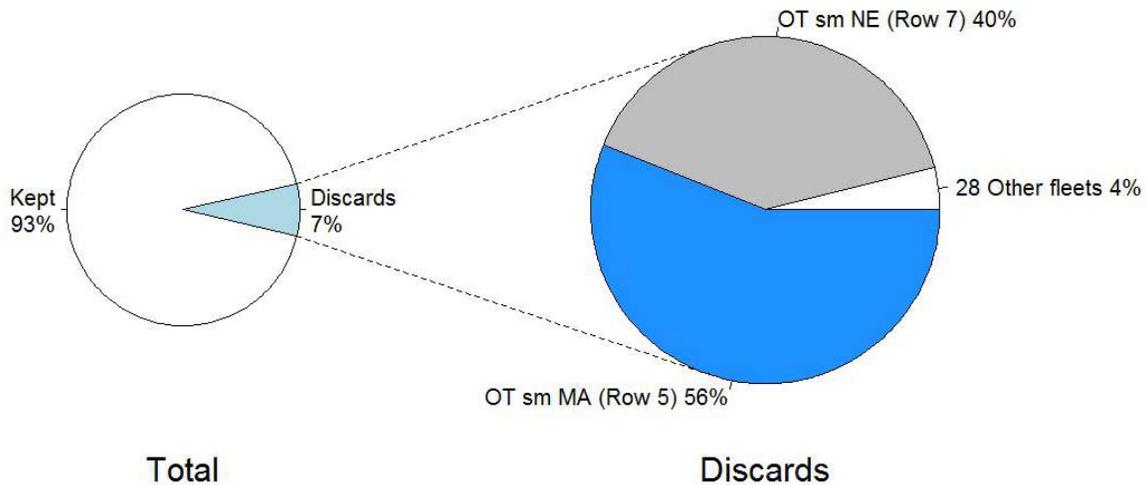


Figure 1A, continued. Percentage of Vessel Trip Report landings (kept) and estimated discards (Total, left pie) and the percentage of estimated discards by fleet (Discards, right pie) for each of the 14 species groups (except Atlantic salmon) for July 2011 through June 2012. See Appendix Table 4 for fleet abbreviations.

## SPECIES: SQUID - BUTTERFISH - MACKEREL



## SPECIES: SURFCLAM - OCEAN QUAHOG

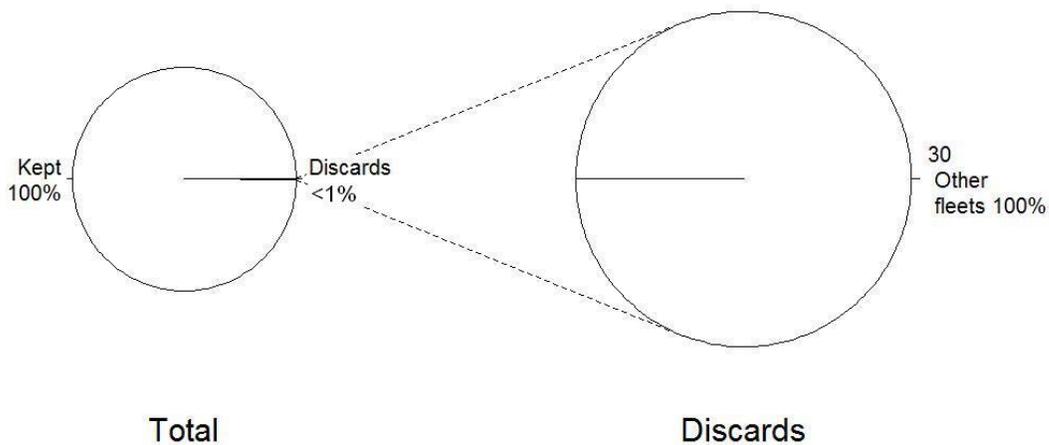


Figure 1A, continued. Percentage of Vessel Trip Report landings (kept) and estimated discards (Total, left pie) and the percentage of estimated discards by fleet (Discards, right pie) for each of the 14 species groups (except Atlantic salmon) for July 2011 through June 2012. See Appendix Table 4 for fleet abbreviations.

# SPECIES: TILEFISH

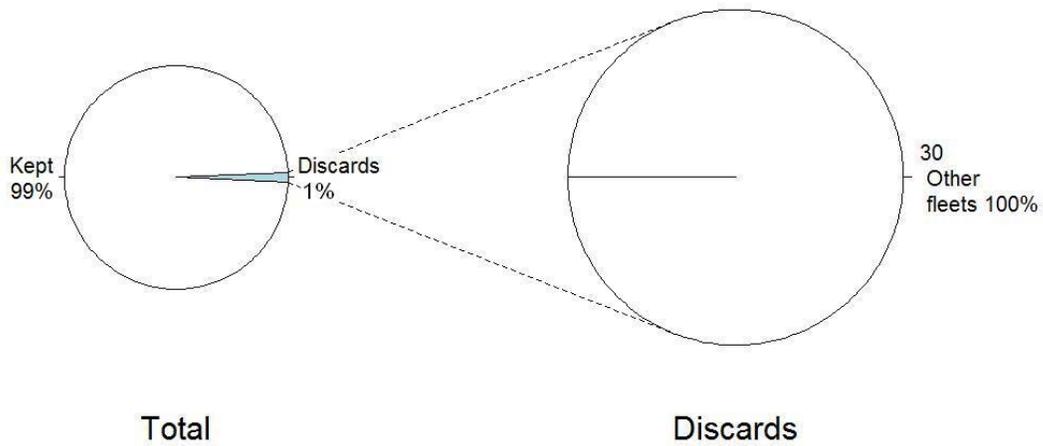
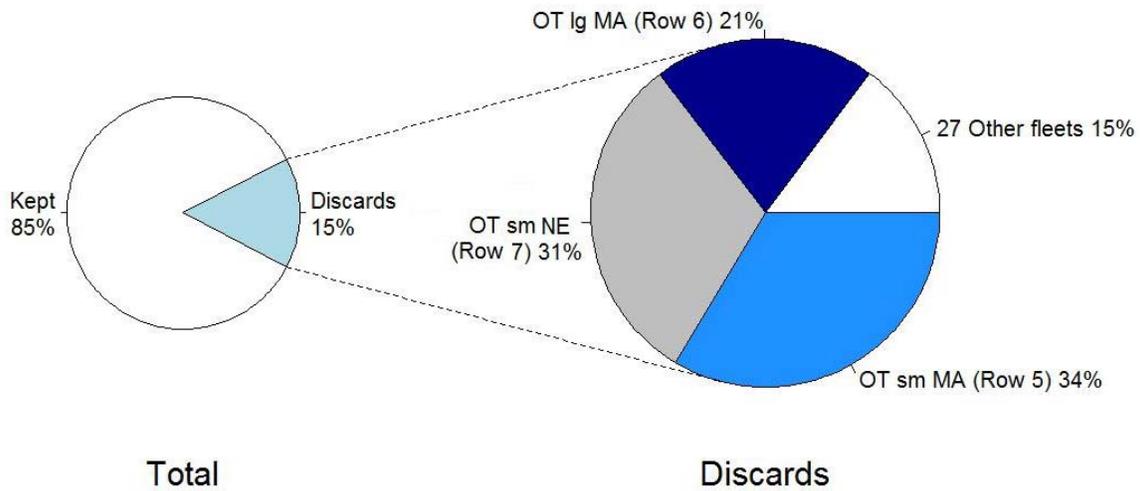


Figure 1A, continued. Percentage of Vessel Trip Report landings (kept) and estimated discards (Total, left pie) and the percentage of estimated discards by fleet (Discards, right pie) for each of the 14 species groups (except Atlantic salmon) for July 2011 through June 2012. See Appendix Table 4 for fleet abbreviations.

# SPECIES: BLACK SEA BASS



# SPECIES: FLUKE

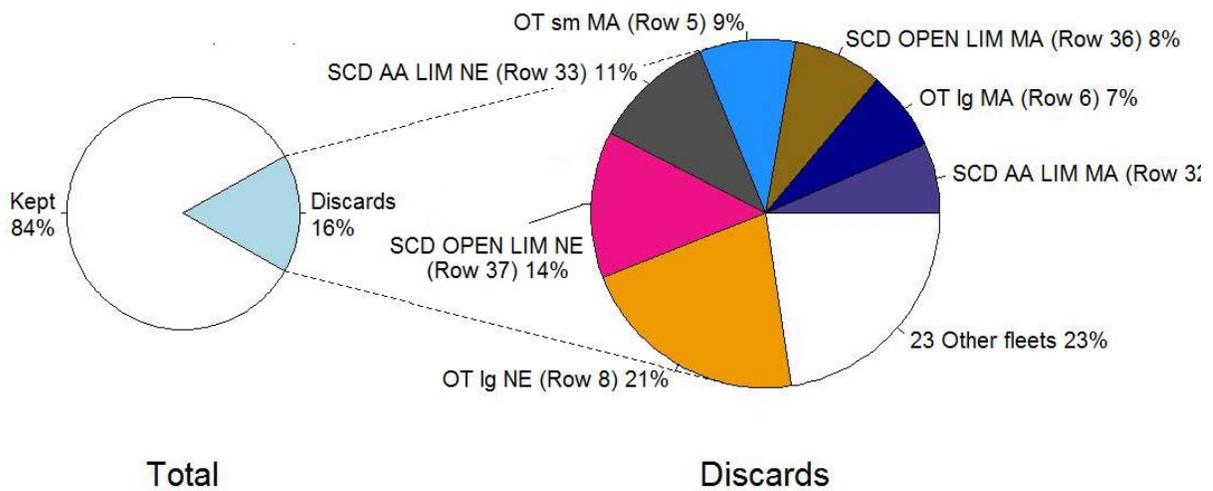
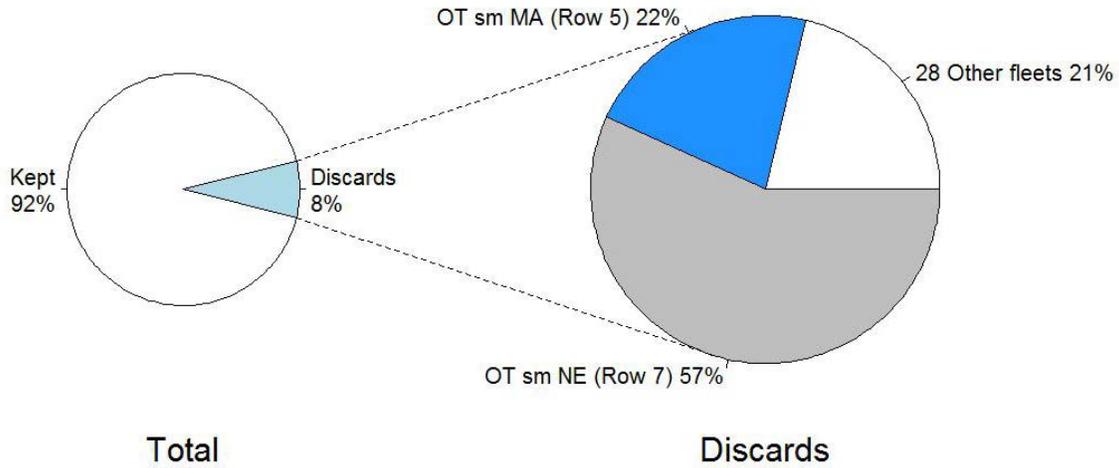


Figure 1B. Percentage of Vessel Trip Report landings (kept) and estimated discards (Total, left pie) and the percentage of estimated discards by fleet (Discards, right pie) for the 23 individual species that comprise the 14 species groups for July 2011 through June 2012. See Appendix Table 4 for fleet abbreviations.

## SPECIES: SCUP



## SPECIES: AMERICAN PLAICE

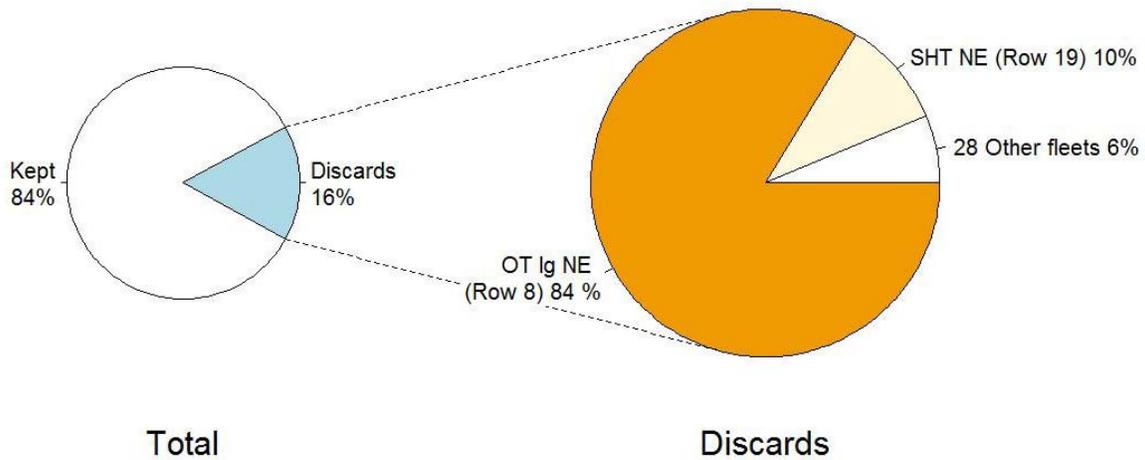
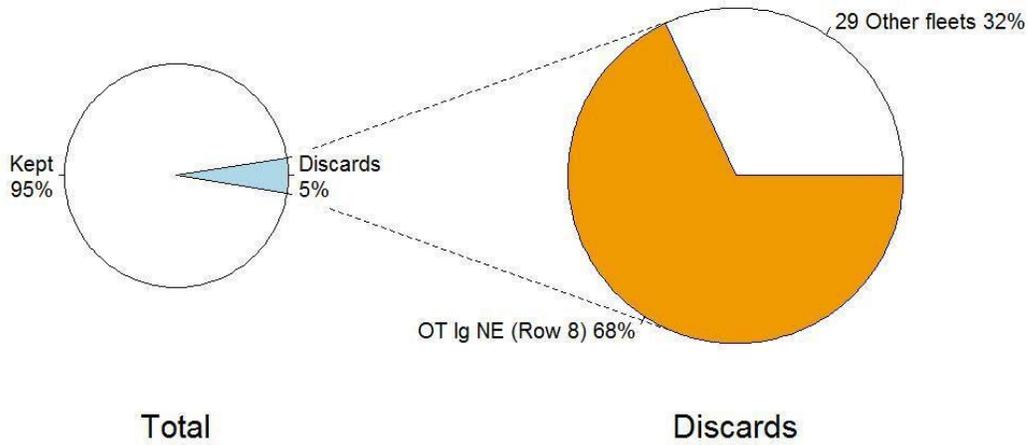


Figure 1B, continued. Percentage of Vessel Trip Report landings (kept) and estimated discards (Total, left pie) and the percentage of estimated discards by fleet (Discards, right pie) for the 23 individual species that comprise the 14 species groups for July 2011 through June 2012. See Appendix Table 4 for fleet abbreviations.

## SPECIES: ATLANTIC COD



## SPECIES: ATLANTIC HALIBUT

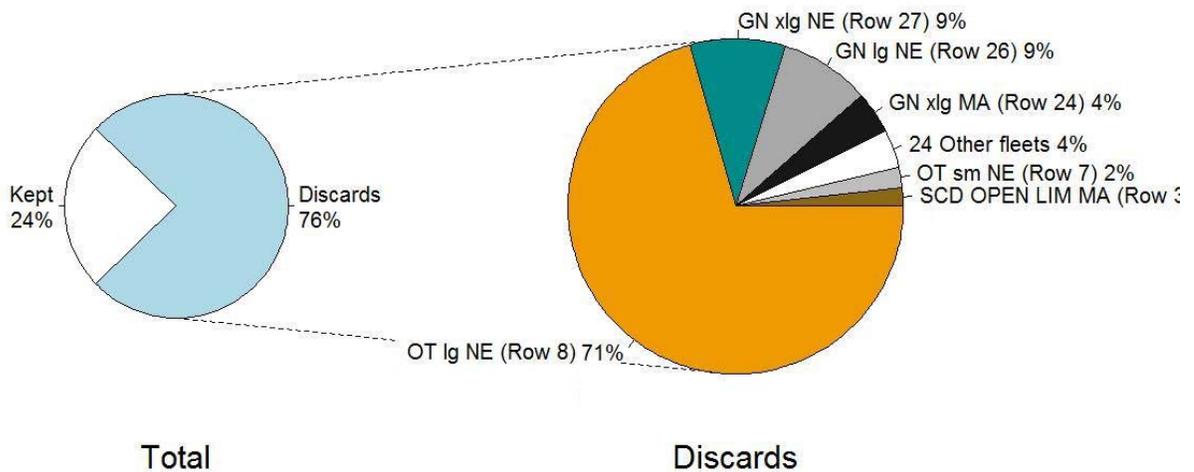
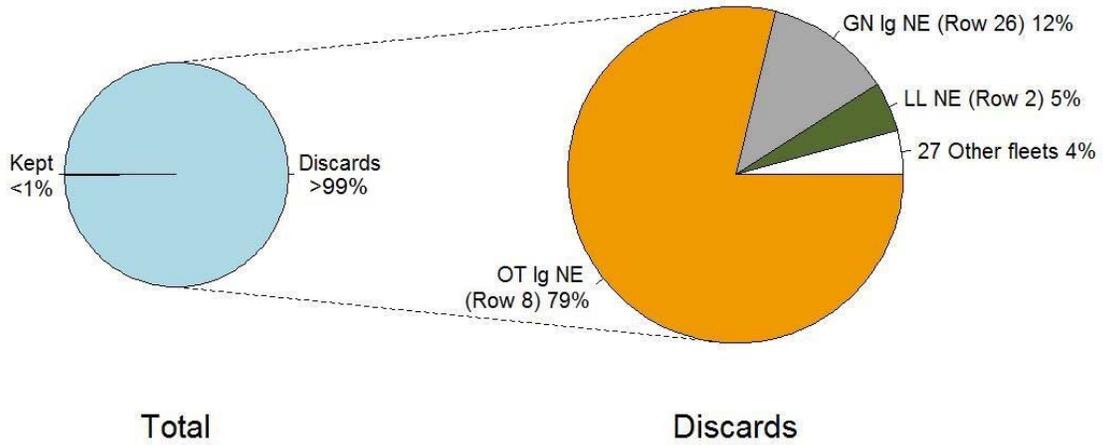


Figure 1B, continued. Percentage of Vessel Trip Report landings (kept) and estimated discards (Total, left pie) and the percentage of estimated discards by fleet (Discards, right pie) for the 23 individual species that comprise the 14 species groups for July 2011 through June 2012. See Appendix Table 4 for fleet abbreviations.

## SPECIES: ATLANTIC WOLFFISH



## SPECIES: HADDOCK

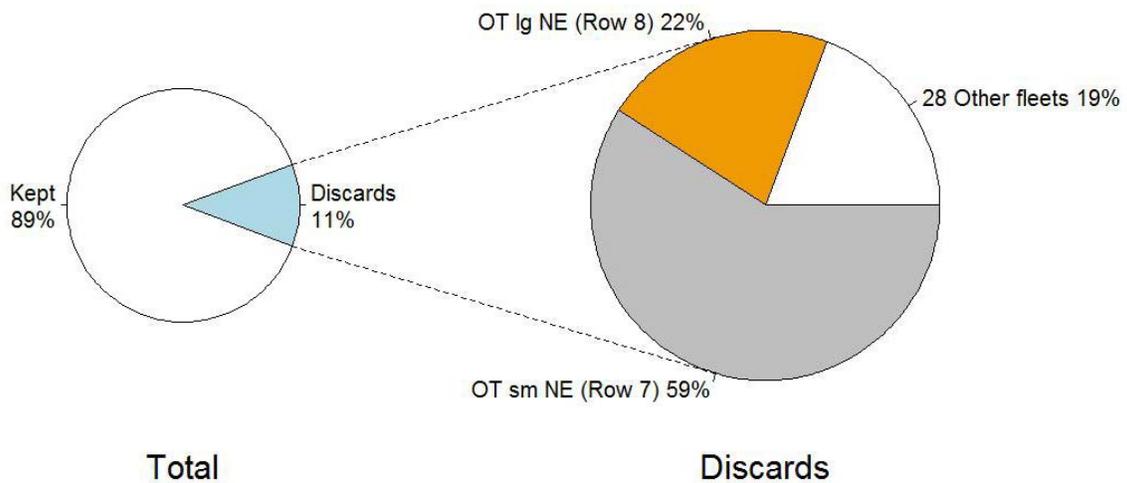
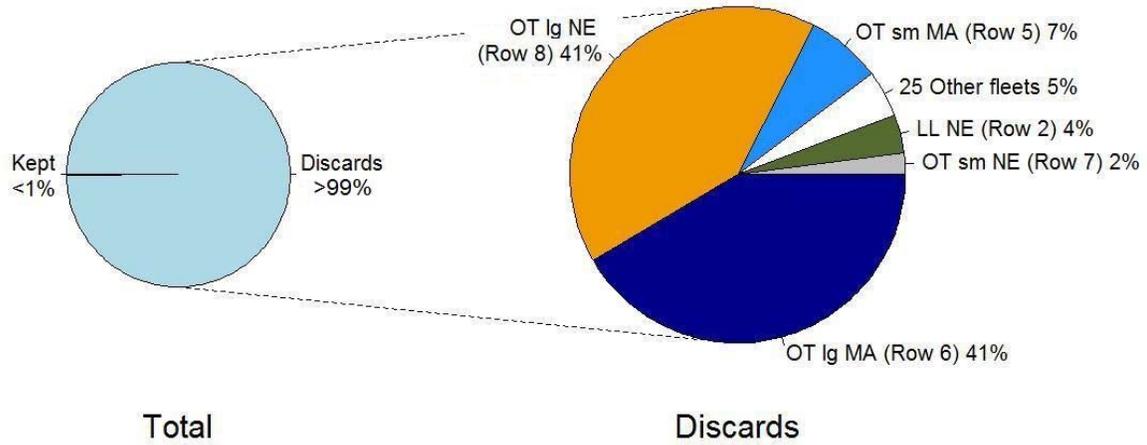


Figure 1B, continued. Percentage of Vessel Trip Report landings (kept) and estimated discards (Total, left pie) and the percentage of estimated discards by fleet (Discards, right pie) for the 23 individual species that comprise the 14 species groups for July 2011 through June 2012. See Appendix Table 4 for fleet abbreviations.

## SPECIES: OCEAN POUT



## SPECIES: POLLOCK

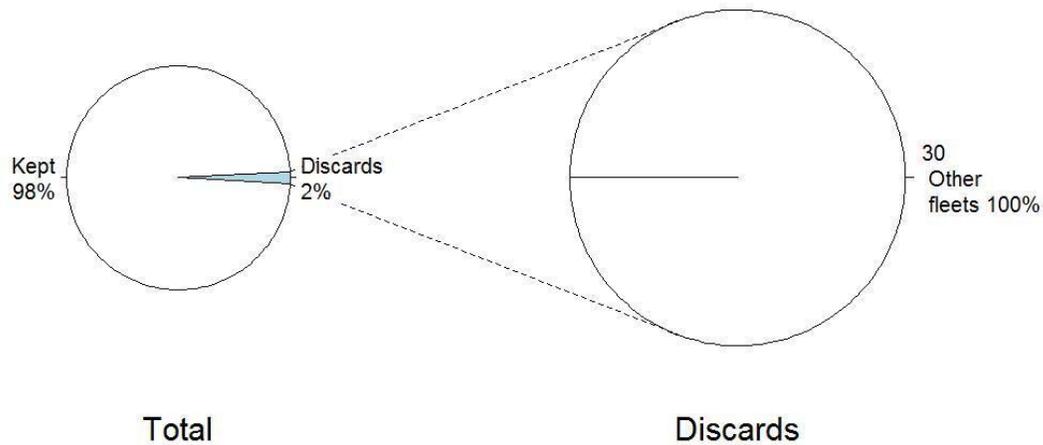
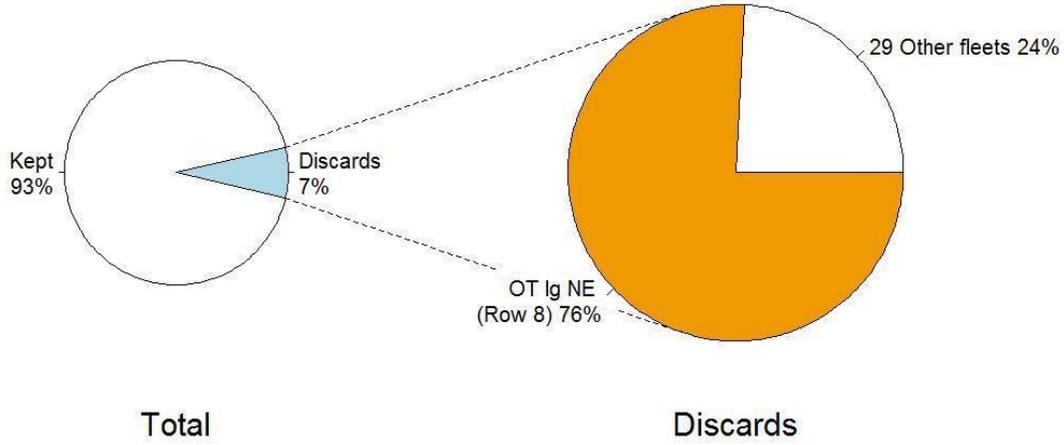


Figure 1B, continued. Percentage of Vessel Trip Report landings (kept) and estimated discards (Total, left pie) and the percentage of estimated discards by fleet (Discards, right pie) for the 23 individual species that comprise the 14 species groups for July 2011 through June 2012. See Appendix Table 4 for fleet abbreviations.

## SPECIES: REDFISH



## SPECIES: WHITE HAKE

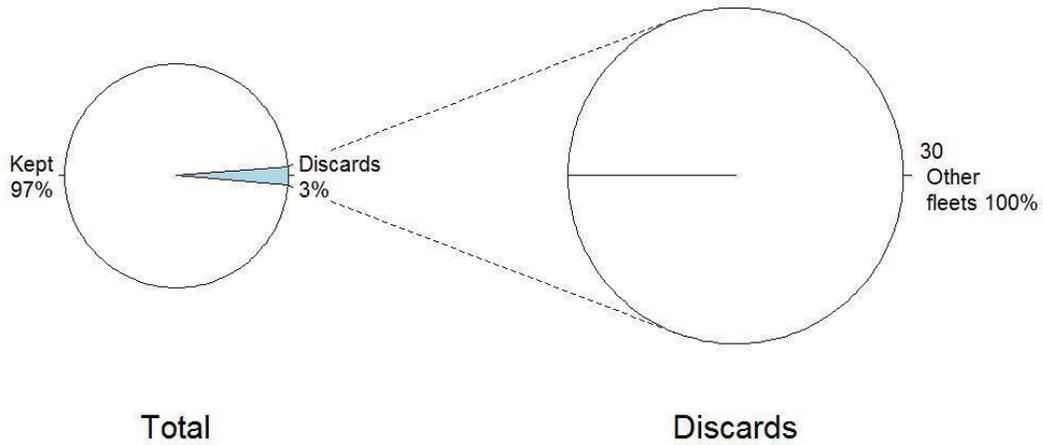
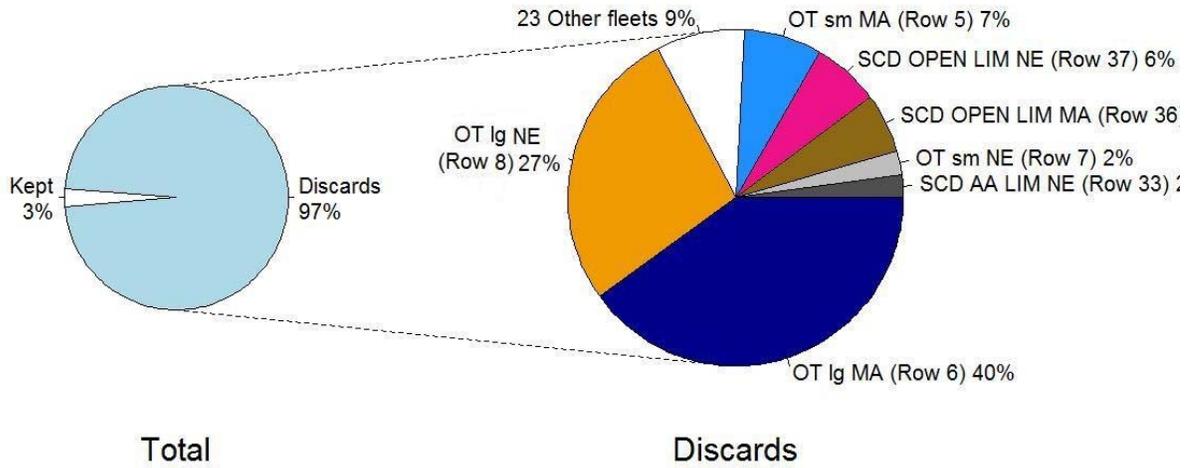


Figure 1B, continued. Percentage of Vessel Trip Report landings (kept) and estimated discards (Total, left pie) and the percentage of estimated discards by fleet (Discards, right pie) for the 23 individual species that comprise the 14 species groups for July 2011 through June 2012. See Appendix Table 4 for fleet abbreviations.

## SPECIES: WINDOWPANE FLOUNDER



## SPECIES: WINTER FLOUNDER

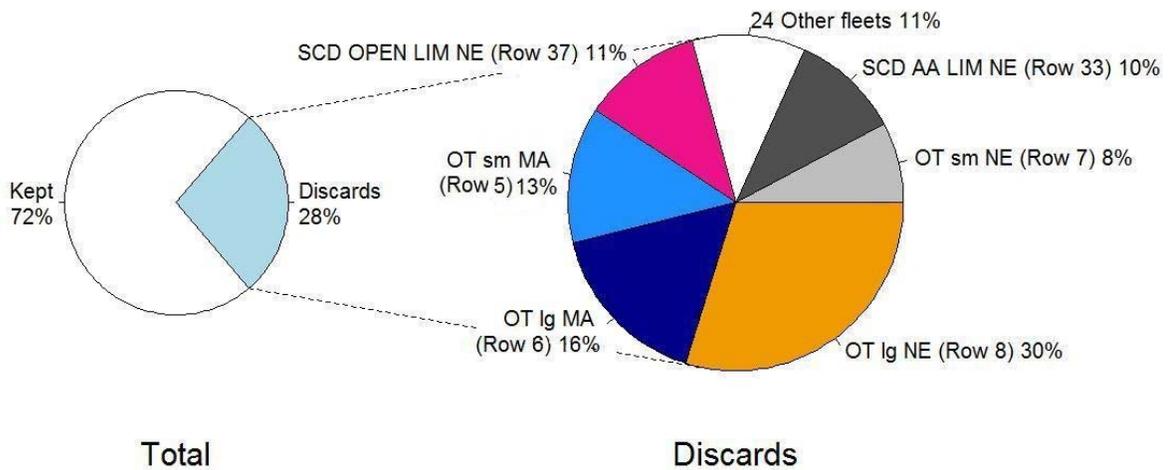
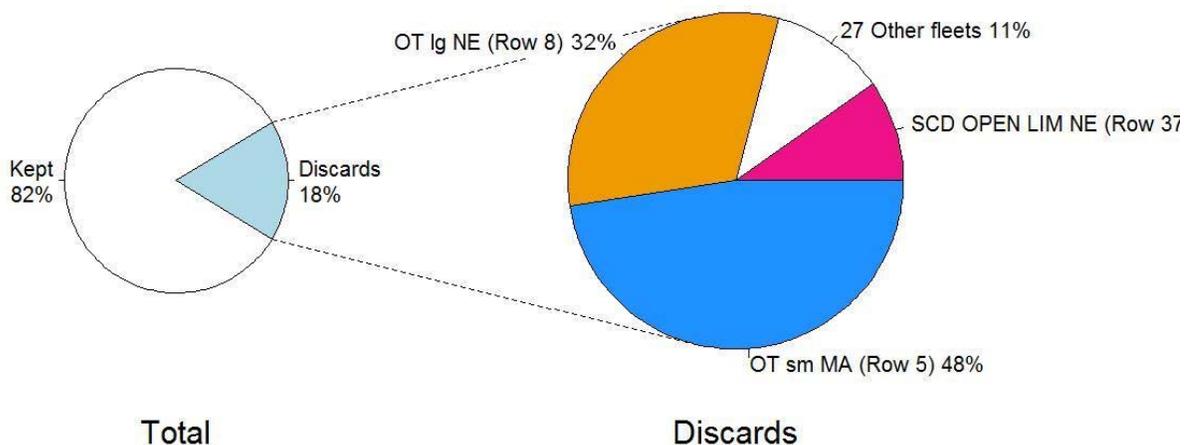


Figure 1B, continued. Percentage of Vessel Trip Report landings (kept) and estimated discards (Total, left pie) and the percentage of estimated discards by fleet (Discards, right pie) for the 23 individual species that comprise the 14 species groups for July 2011 through June 2012. See Appendix Table 4 for fleet abbreviations.

## SPECIES: WITCH FLOUNDER



## SPECIES: YELLOWTAIL FLOUNDER

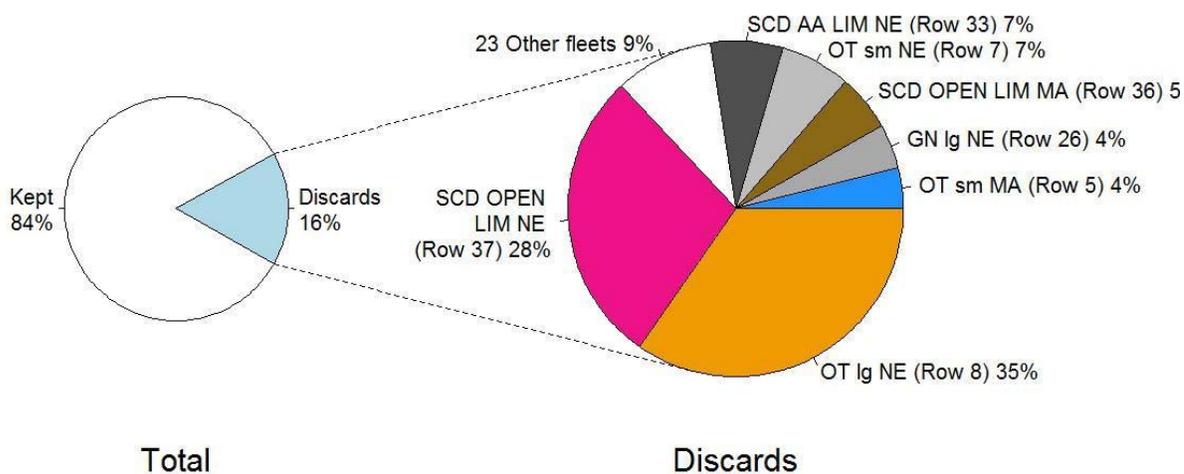
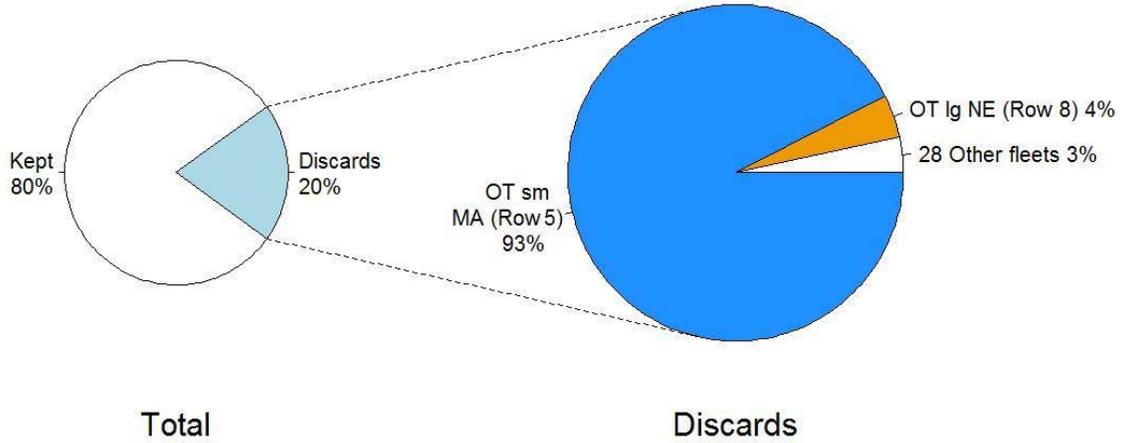


Figure 1B, continued. Percentage of Vessel Trip Report landings (kept) and estimated discards (Total, left pie) and the percentage of estimated discards by fleet (Discards, right pie) for the 23 individual species that comprise the 14 species groups for July 2011 through June 2012. See Appendix Table 4 for fleet abbreviations.

## SPECIES: OFFSHORE HAKE



## SPECIES: RED HAKE

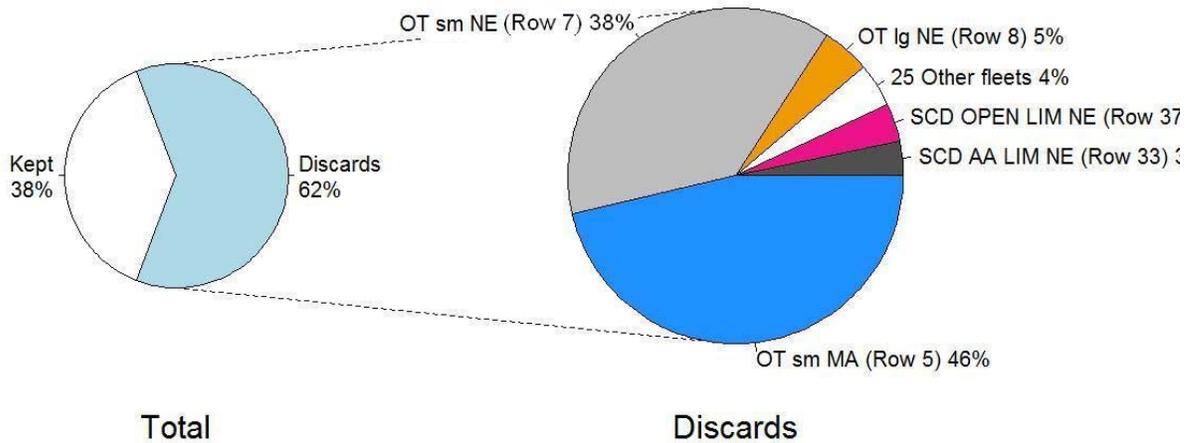
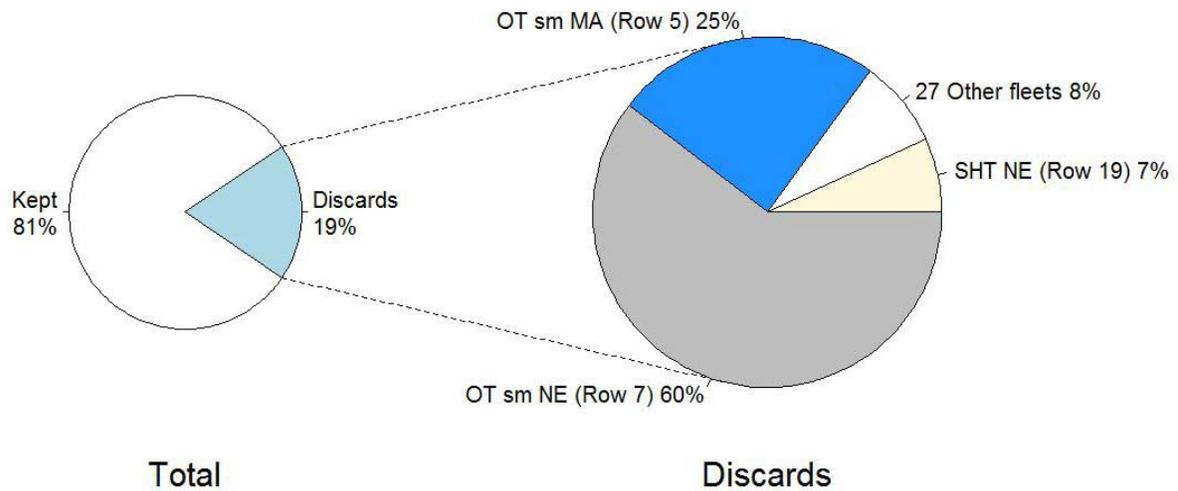


Figure 1B, continued. Percentage of Vessel Trip Report landings (kept) and estimated discards (Total, left pie) and the percentage of estimated discards by fleet (Discards, right pie) for the 23 individual species that comprise the 14 species groups for July 2011 through June 2012. See Appendix Table 4 for fleet abbreviations.

## SPECIES: SILVER HAKE



## SPECIES: ATLANTIC MACKEREL

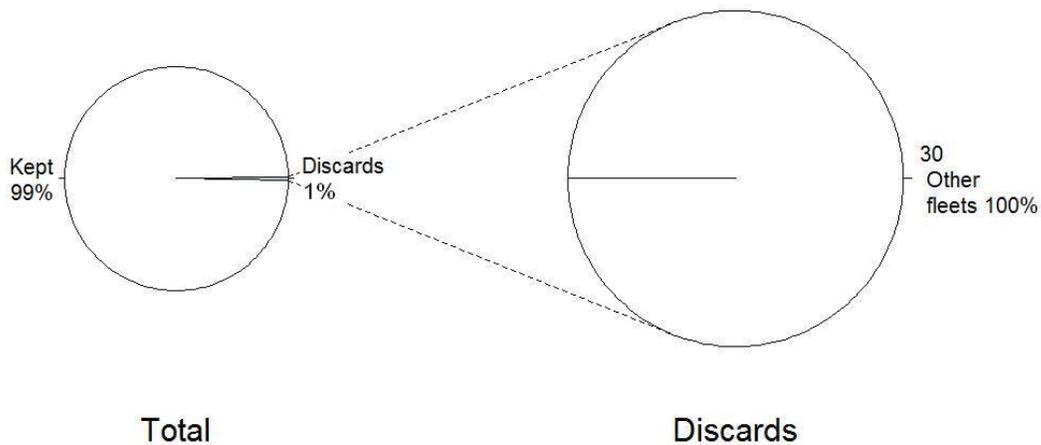
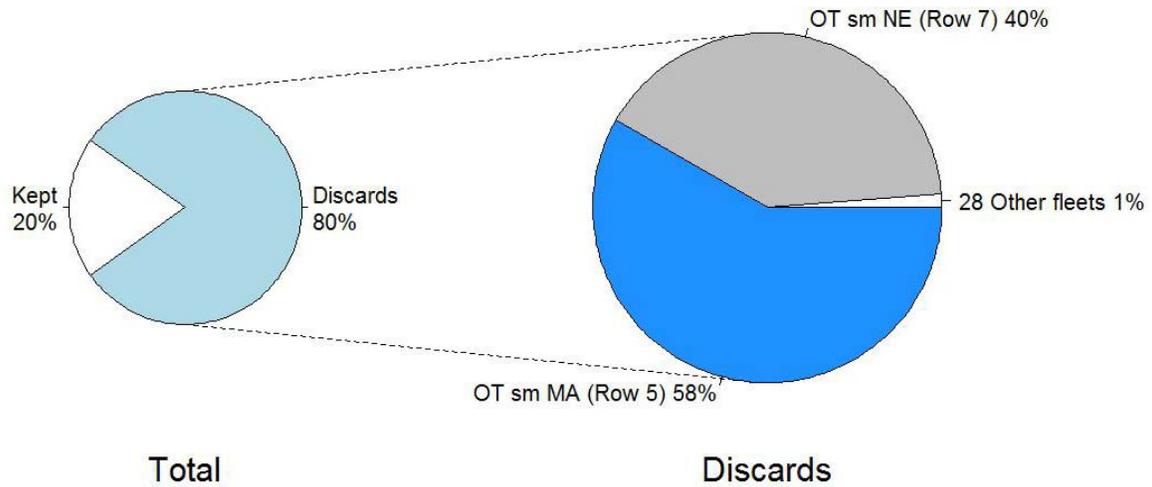


Figure 1B, continued. Percentage of Vessel Trip Report landings (kept) and estimated discards (Total, left pie) and the percentage of estimated discards by fleet (Discards, right pie) for the 23 individual species that comprise the 14 species groups for July 2011 through June 2012. See Appendix Table 4 for fleet abbreviations.

## SPECIES: BUTTERFISH



## SPECIES: ILLEX SQUID

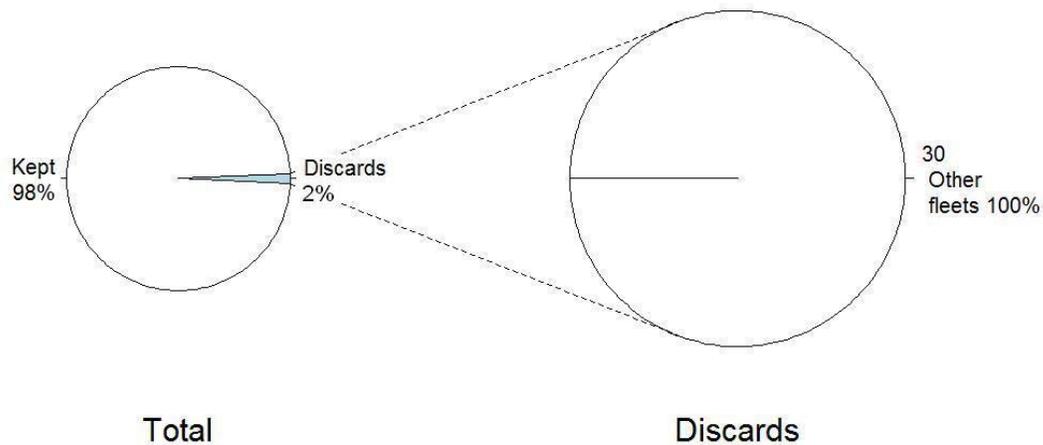


Figure 1B, continued. Percentage of Vessel Trip Report landings (kept) and estimated discards (Total, left pie) and the percentage of estimated discards by fleet (Discards, right pie) for the 23 individual species that comprise the 14 species groups for July 2011 through June 2012. See Appendix Table 4 for fleet abbreviations.

# SPECIES: LOLIGO SQUID

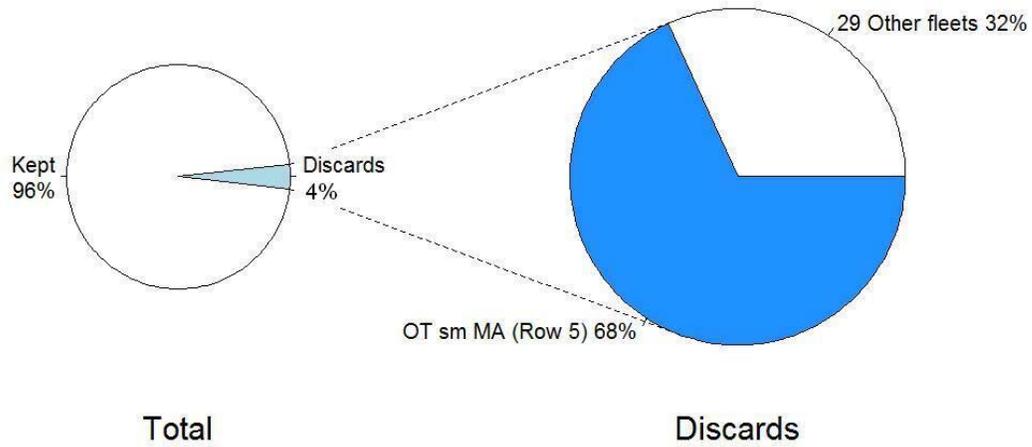
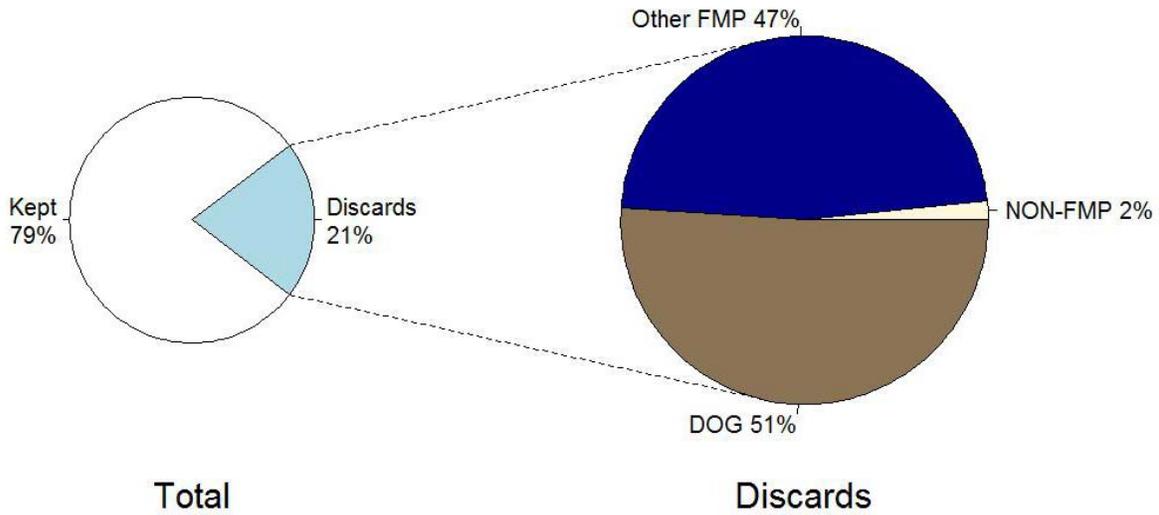


Figure 1B, continued. Percentage of Vessel Trip Report landings (kept) and estimated discards (Total, left pie) and the percentage of estimated discards by fleet (Discards, right pie) for the 23 individual species that comprise the 14 species groups for July 2011 through June 2012. See Appendix Table 4 for fleet abbreviations.

## FLEET: Longline OPEN all NE all (Row 2)



## FLEET: Hand Line OPEN all NE all (Row 4)

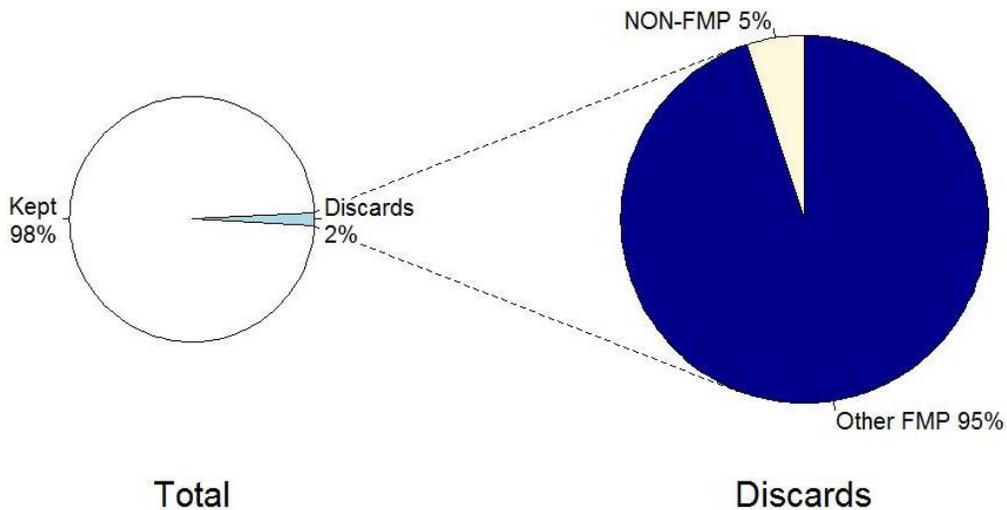
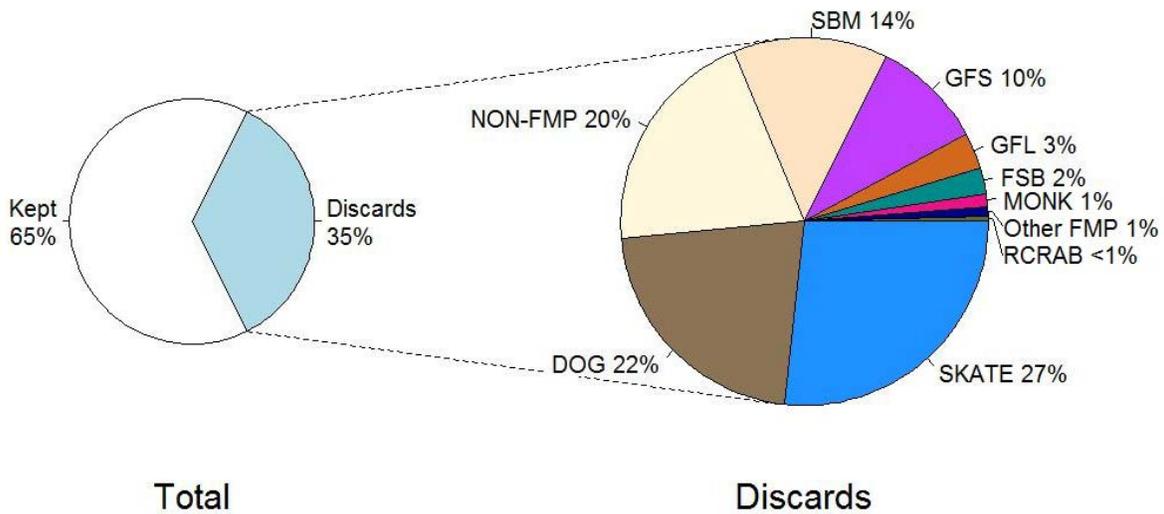


Figure 2. Percentage of Vessel Trip Report landings (kept) and estimated discards (Total, left pie) and the percentage of estimated discards by species groups (Discards, right pie) for 22 selected fleets for July 2011 through June 2012. See Table 1 for species group abbreviations; FMP species groups that were filtered out through the importance filter have been aggregated and labeled “Other FMP” species groups; non-FMP species have been grouped and labeled “Non-FMP.” *Note: Selected fleets include Rows 2, 4-8, 16-17, 19, 23-24, 26-27, 29-30, 32-37, and 40; these represent the non-pilot fleets in 2013.*

## FLEET: Otter Trawl OPEN all MA sm (Row 5)



## FLEET: Otter Trawl OPEN all MA lg (Row 6)

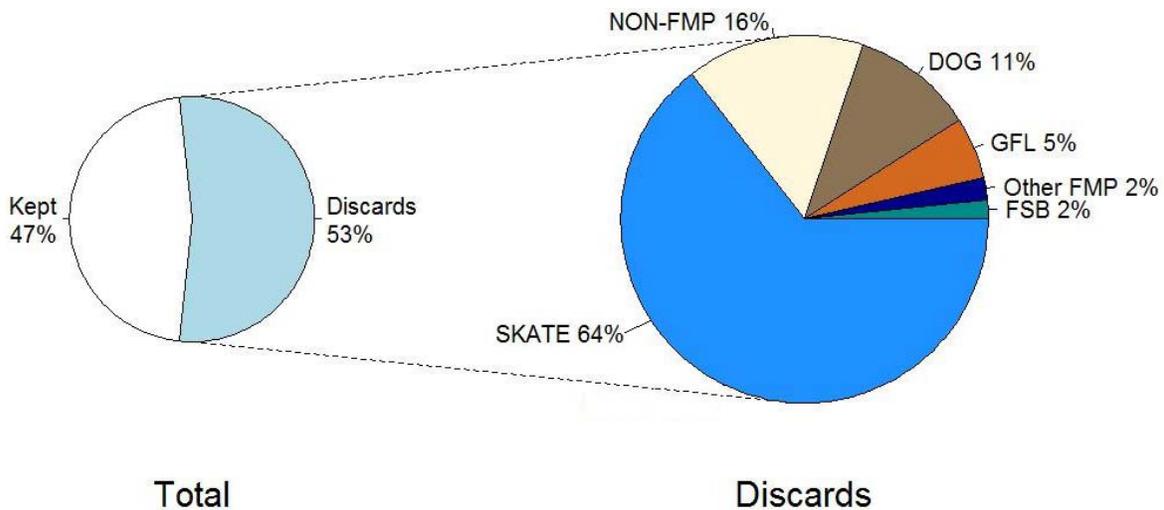
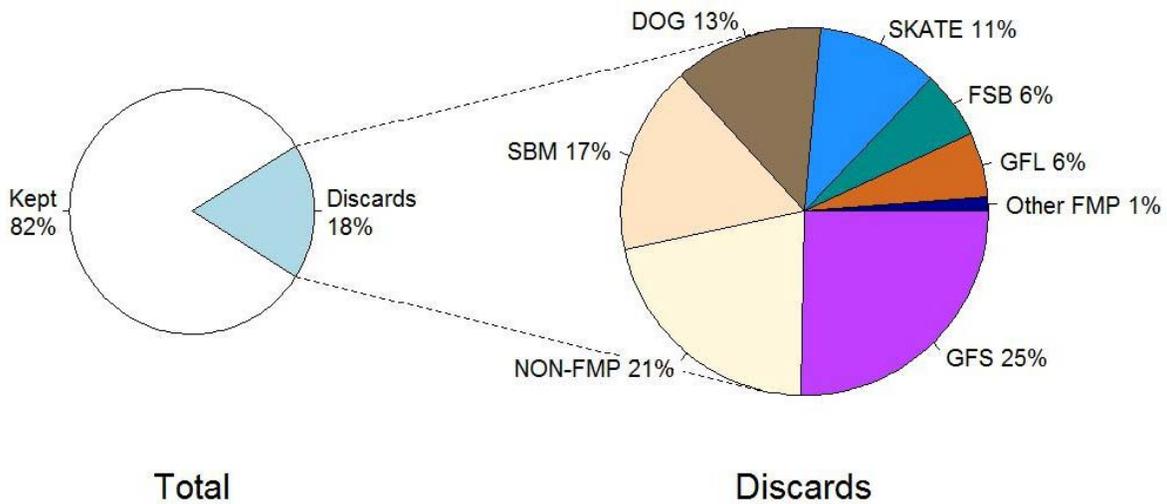


Figure 2, continued. Percentage of Vessel Trip Report landings (kept) and estimated discards (Total, left pie) and the percentage of estimated discards by species groups (Discards, right pie) for 22 selected fleets for July 2011 through June 2012. See Table 1 for species group abbreviations; FMP species groups that were filtered out through the importance filter have been aggregated and labeled "Other FMP" species groups; non-FMP species have been grouped and labeled "Non-FMP."

*Note: Selected fleets include Rows 2, 4-8, 16-17, 19, 23-24, 26-27, 29-30, 32-37, and 40; these represent the non-pilot fleets in 2013.*

## FLEET: Otter Trawl OPEN all NE sm (Row 7)



## FLEET: Otter Trawl OPEN all NE lg (Row 8)

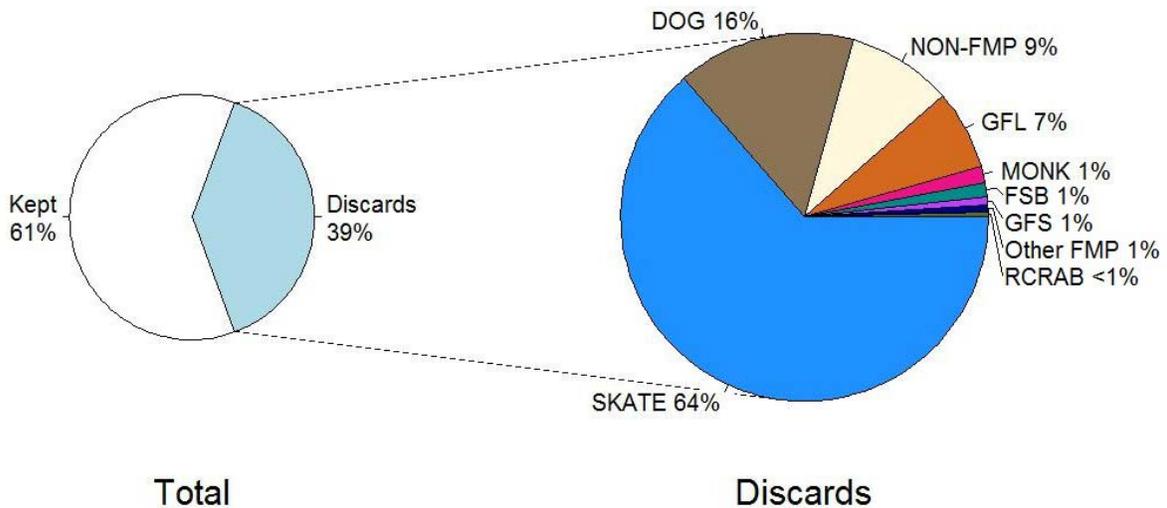
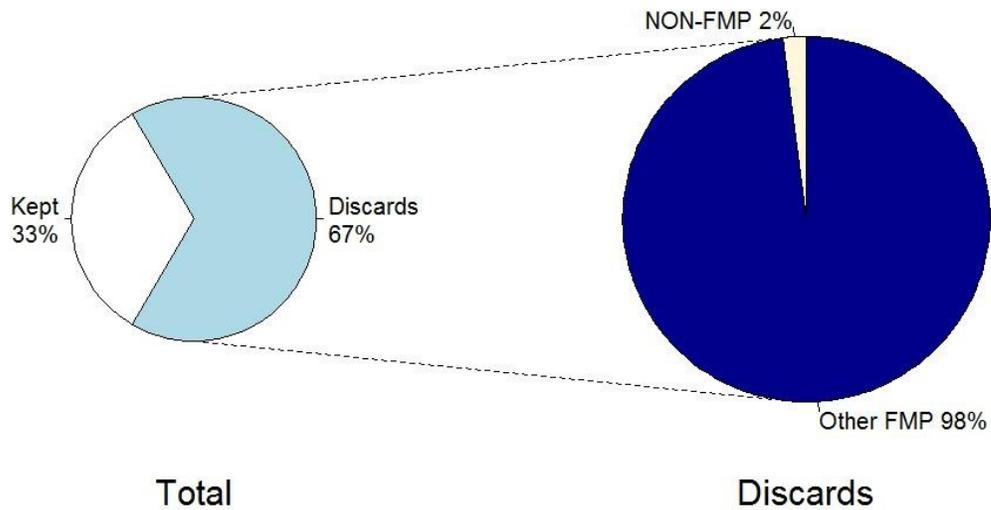


Figure 2, continued. Percentage of Vessel Trip Report landings (kept) and estimated discards (Total, left pie) and the percentage of estimated discards by species groups (Discards, right pie) for 22 selected fleets for July 2011 through June 2012. See Table 1 for species group abbreviations; FMP species groups that were filtered out through the importance filter have been aggregated and labeled “Other FMP” species groups; non-FMP species have been grouped and labeled “Non-FMP.”

*Note: Selected fleets include Rows 2, 4-8, 16-17, 19, 23-24, 26-27, 29-30, 32-37, and 40; these represent the non-pilot fleets in 2013.*

## FLEET: Otter Trawl, Haddock Separator OPEN all MA Ig (Row 16)



## FLEET: Otter Trawl, Haddock Separator OPEN all NE Ig (Row 17)

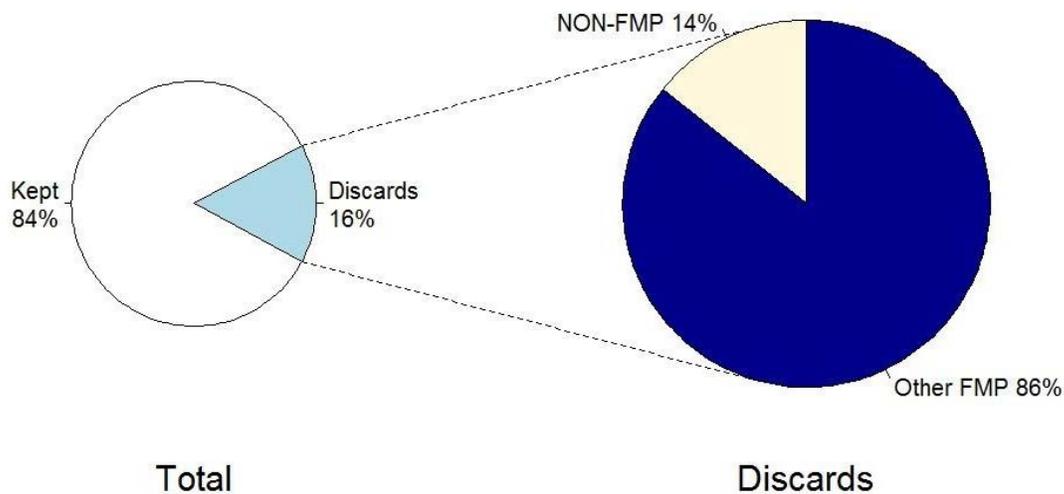
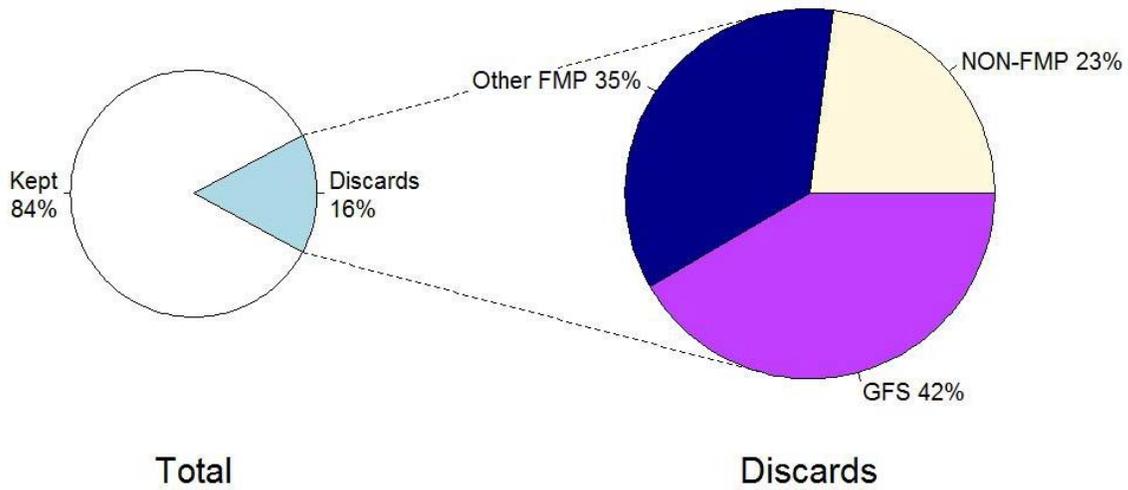


Figure 2, continued. Percentage of Vessel Trip Report landings (kept) and estimated discards (Total, left pie) and the percentage of estimated discards by species groups (Discards, right pie) for 22 selected fleets for July 2011 through June 2012. See Table 1 for species group abbreviations; FMP species groups that were filtered out through the importance filter have been aggregated and labeled “Other FMP” species groups; non-FMP species have been grouped and labeled “Non-FMP.”

*Note: Selected fleets include Rows 2, 4-8, 16-17, 19, 23-24, 26-27, 29-30, 32-37, and 40; these represent the non-pilot fleets in 2013.*

## FLEET: Shrimp Trawl OPEN all NE all (Row 19)



## FLEET: Gillnet OPEN all MA Ig (Row 23)

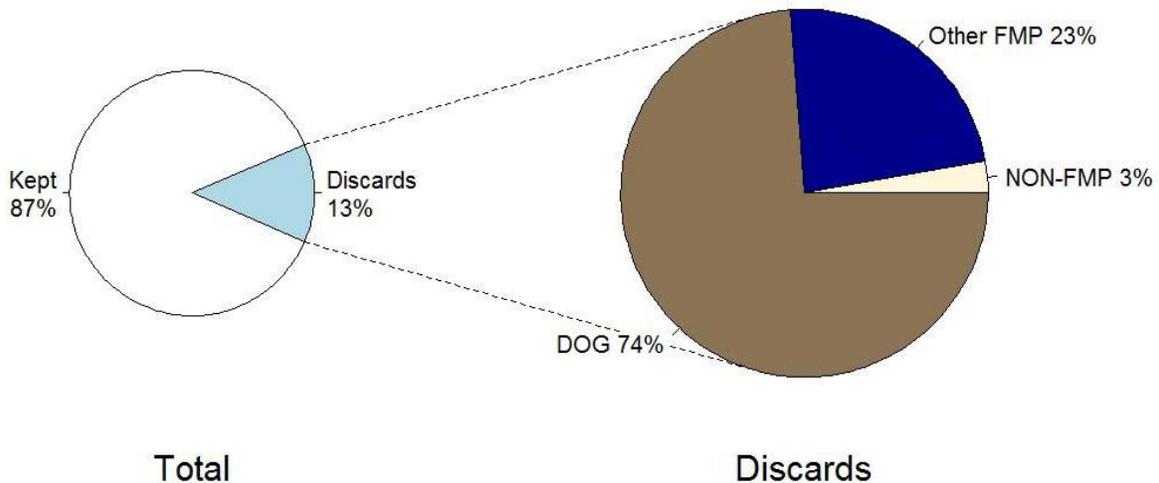
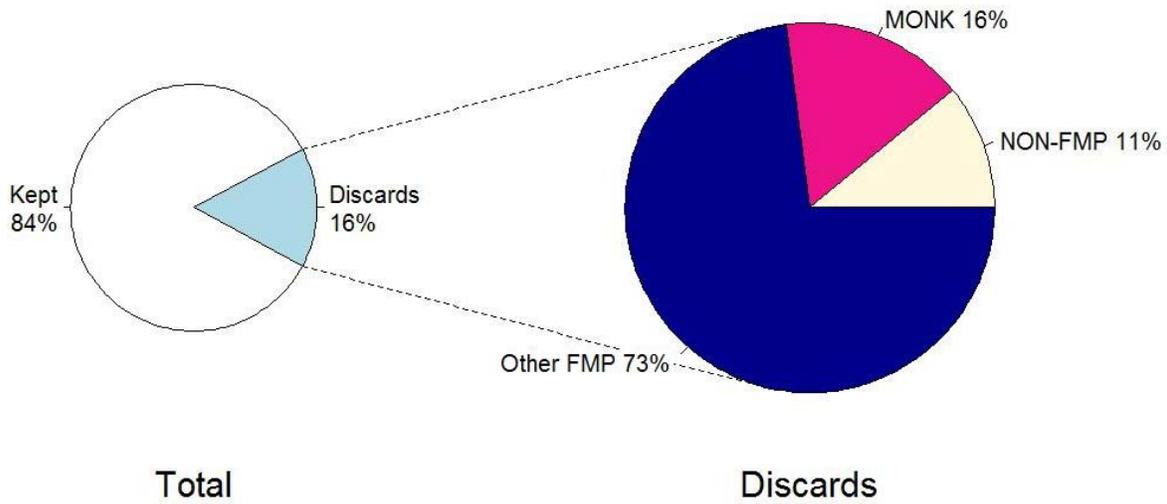


Figure 2, continued. Percentage of Vessel Trip Report landings (kept) and estimated discards (Total, left pie) and the percentage of estimated discards by species groups (Discards, right pie) for 22 selected fleets for July 2011 through June 2012. See Table 1 for species group abbreviations; FMP species groups that were filtered out through the importance filter have been aggregated and labeled “Other FMP” species groups; non-FMP species have been grouped and labeled “Non-FMP.”

*Note: Selected fleets include Rows 2, 4-8, 16-17, 19, 23-24, 26-27, 29-30, 32-37, and 40; these represent the non-pilot fleets in 2013.*

## FLEET: Gillnet OPEN all MA xlg (Row 24)



## FLEET: Gillnet OPEN all NE lg (Row 26)

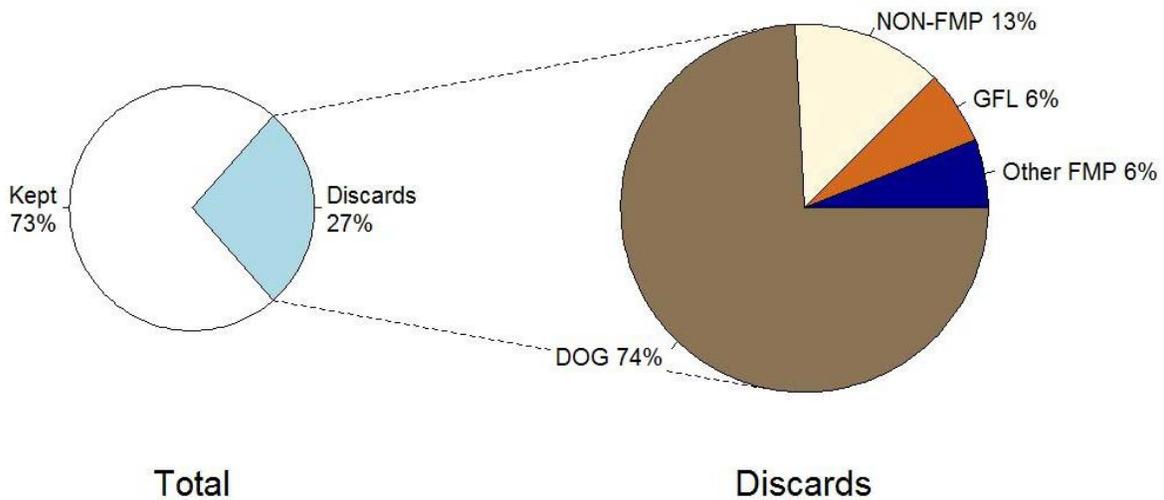
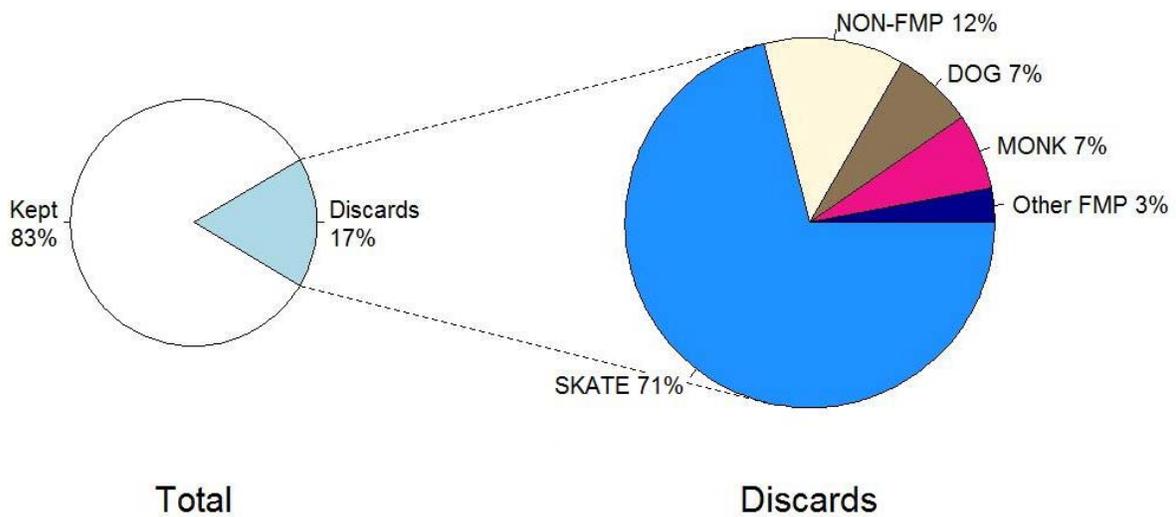


Figure 2, continued. Percentage of Vessel Trip Report landings (kept) and estimated discards (Total, left pie) and the percentage of estimated discards by species groups (Discards, right pie) for 22 selected fleets for July 2011 through June 2012. See Table 1 for species group abbreviations; FMP species groups that were filtered out through the importance filter have been aggregated and labeled “Other FMP” species groups; non-FMP species have been grouped and labeled “Non-FMP.”

*Note: Selected fleets include Rows 2, 4-8, 16-17, 19, 23-24, 26-27, 29-30, 32-37, and 40; these represent the non-pilot fleets in 2013.*

## FLEET: Gillnet OPEN all NE xlg (Row 27)



## FLEET: Purse Seine OPEN all NE all (Row 29)

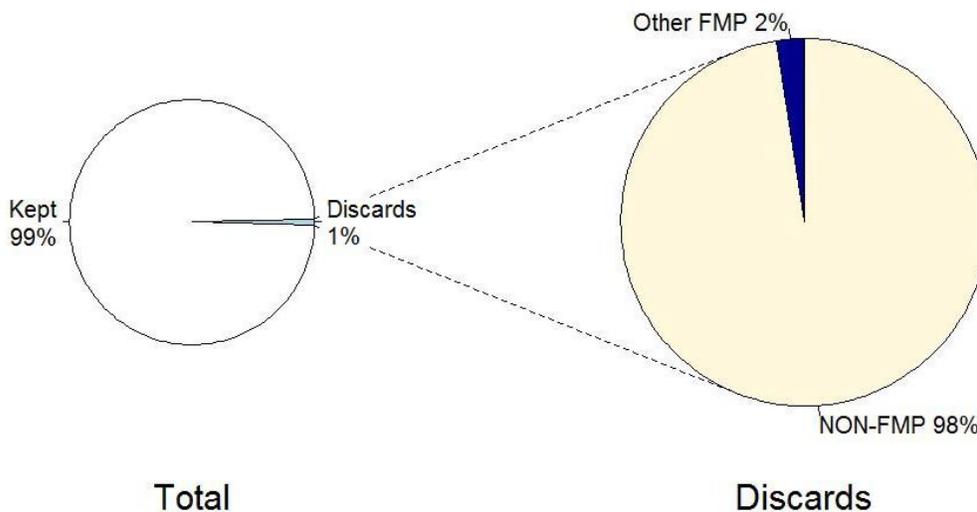
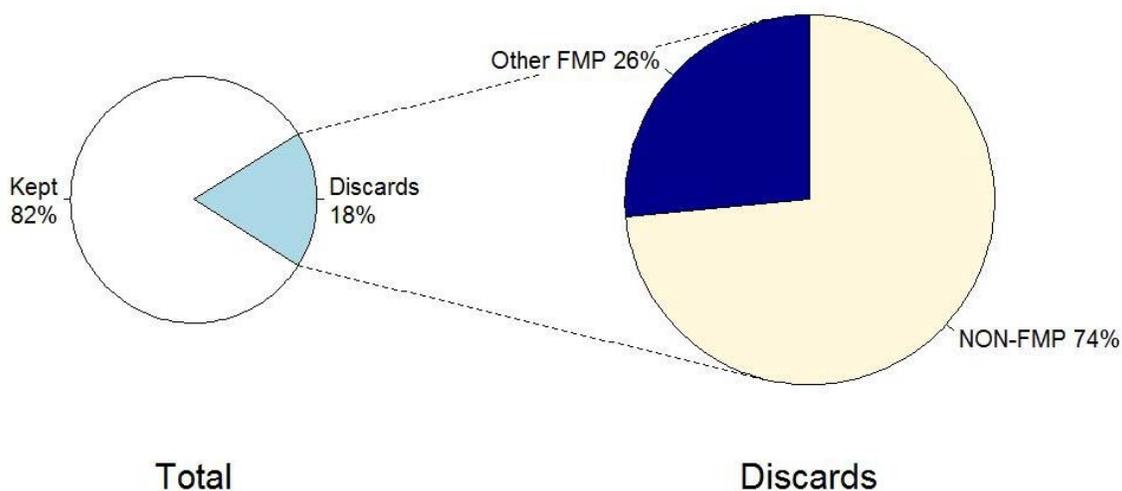


Figure 2, continued. Percentage of Vessel Trip Report landings (kept) and estimated discards (Total, left pie) and the percentage of estimated discards by species groups (Discards, right pie) for 22 selected fleets for July 2011 through June 2012. See Table 1 for species group abbreviations; FMP species groups that were filtered out through the importance filter have been aggregated and labeled "Other FMP" species groups; non-FMP species have been grouped and labeled "Non-FMP."

*Note: Selected fleets include Rows 2, 4-8, 16-17, 19, 23-24, 26-27, 29-30, 32-37, and 40; these represent the non-pilot fleets in 2013.*

## FLEET: Scallop Dredge AA GEN MA all (Row 30)



## FLEET: Scallop Dredge AA LIM MA all (Row 32)

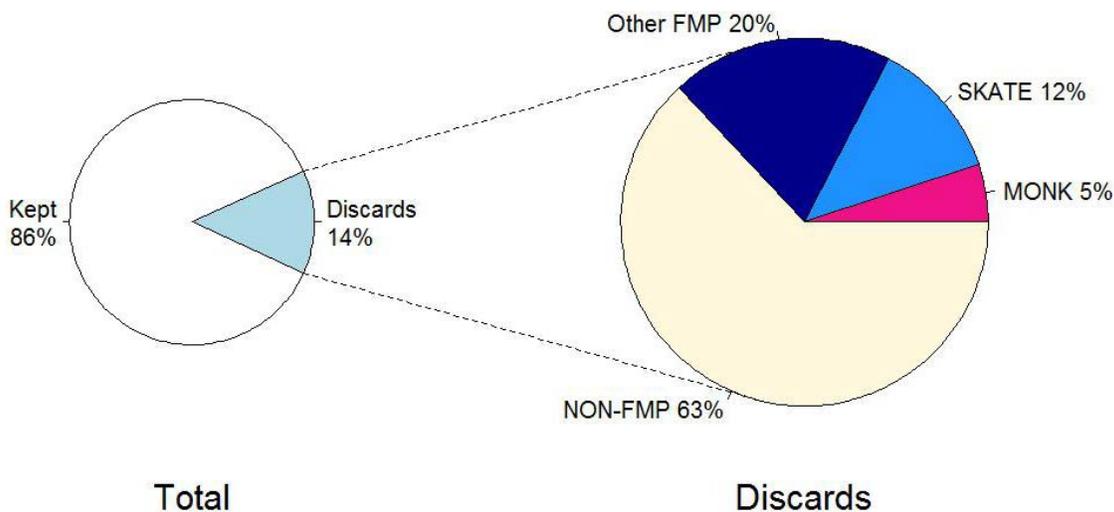
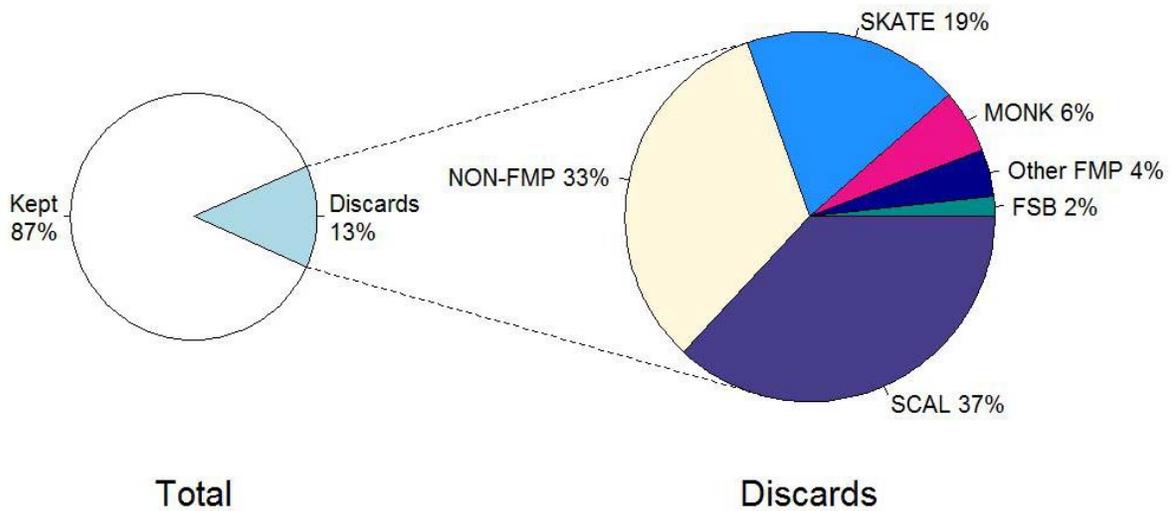


Figure 2, continued. Percentage of Vessel Trip Report landings (kept) and estimated discards (Total, left pie) and the percentage of estimated discards by species groups (Discards, right pie) for 22 selected fleets for July 2011 through June 2012. See Table 1 for species group abbreviations; FMP species groups that were filtered out through the importance filter have been aggregated and labeled “Other FMP” species groups; non-FMP species have been grouped and labeled “Non-FMP.”

*Note: Selected fleets include Rows 2, 4-8, 16-17, 19, 23-24, 26-27, 29-30, 32-37, and 40; these represent the non-pilot fleets in 2013.*

## FLEET: Scallop Dredge AA LIM NE all (Row 33)



## FLEET: Scallop Dredge OPEN GEN MA all (Row 34)

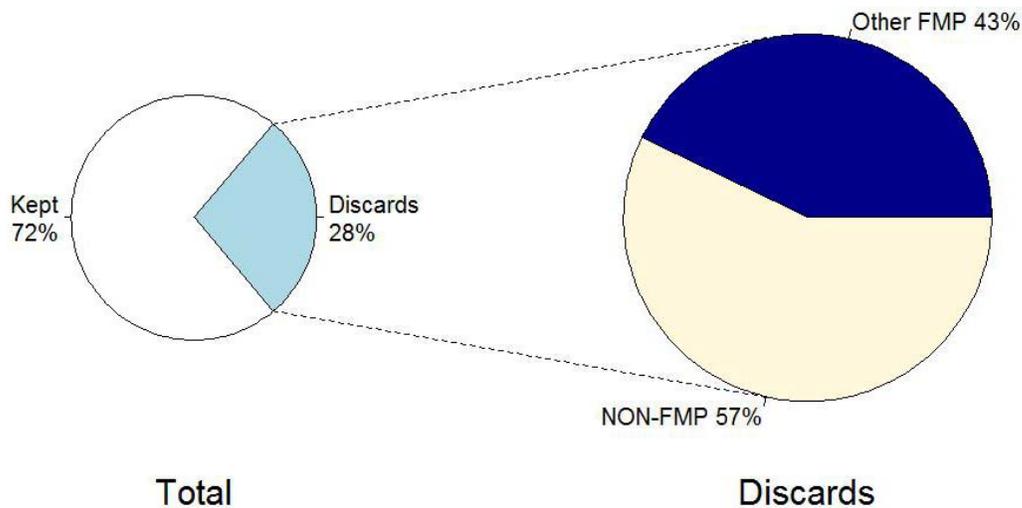
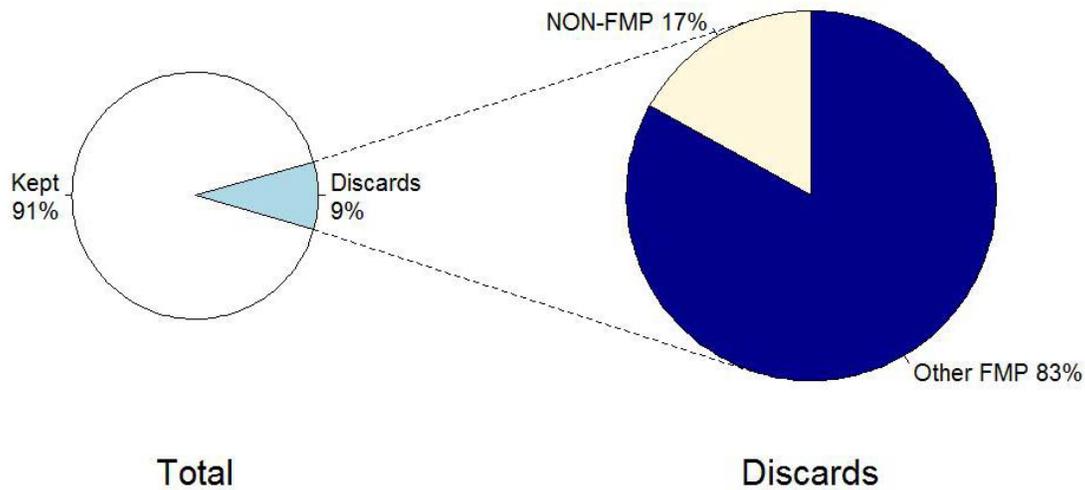


Figure 2, continued. Percentage of Vessel Trip Report landings (kept) and estimated discards (Total, left pie) and the percentage of estimated discards by species groups (Discards, right pie) for 22 selected fleets for July 2011 through June 2012. See Table 1 for species group abbreviations; FMP species groups that were filtered out through the importance filter have been aggregated and labeled “Other FMP” species groups; non-FMP species have been grouped and labeled “Non-FMP.”

*Note: Selected fleets include Rows 2, 4-8, 16-17, 19, 23-24, 26-27, 29-30, 32-37, and 40; these represent the non-pilot fleets in 2013.*

## FLEET: Scallop Dredge OPEN GEN NE all (Row 35)



## FLEET: Scallop Dredge OPEN LIM MA all (Row 36)

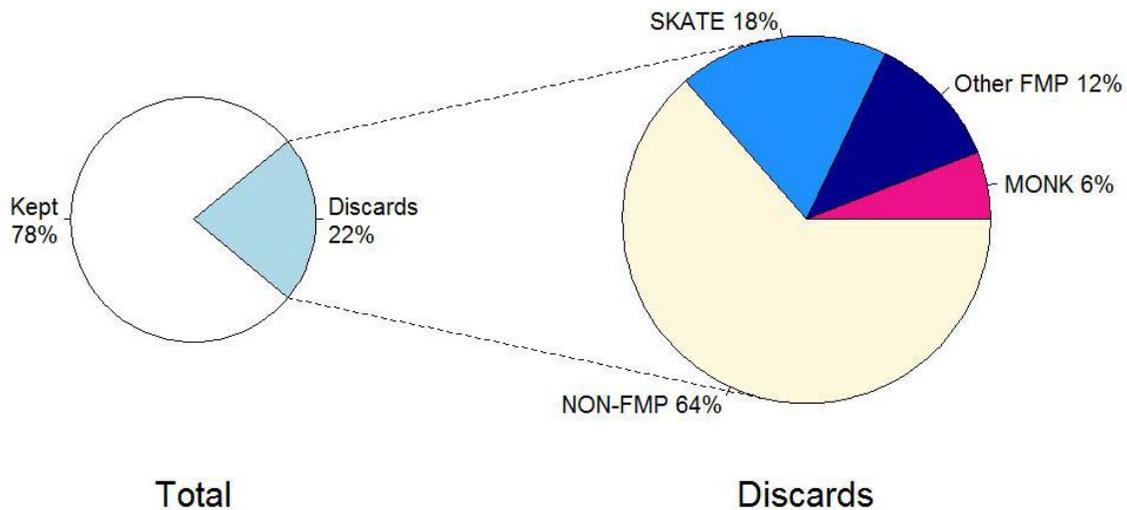
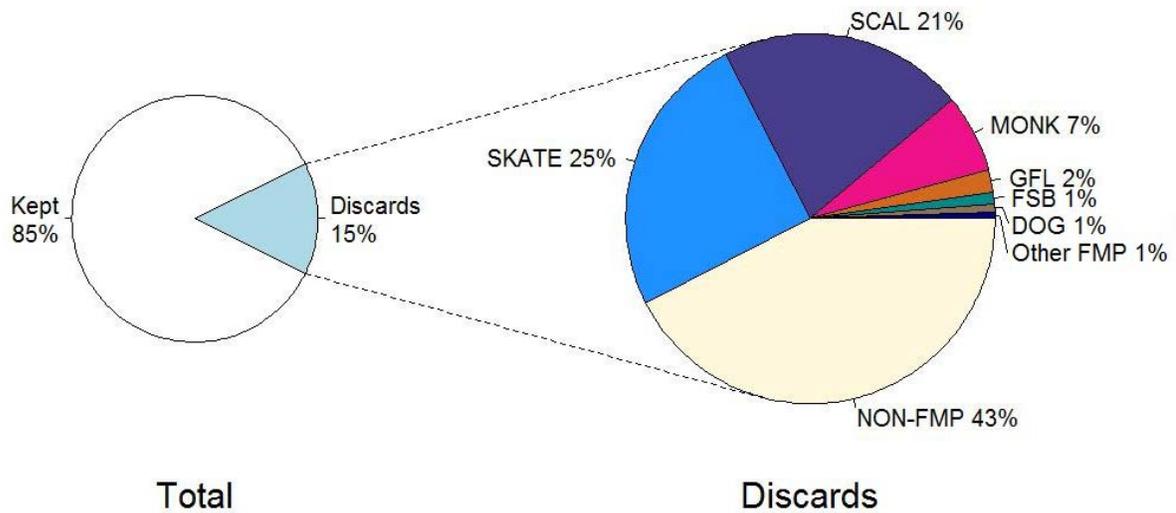


Figure 2, continued. Percentage of Vessel Trip Report landings (kept) and estimated discards (Total, left pie) and the percentage of estimated discards by species groups (Discards, right pie) for 22 selected fleets for July 2011 through June 2012. See Table 1 for species group abbreviations; FMP species groups that were filtered out through the importance filter have been aggregated and labeled “Other FMP” species groups; non-FMP species have been grouped and labeled “Non-FMP.”

*Note: Selected fleets include Rows 2, 4-8, 16-17, 19, 23-24, 26-27, 29-30, 32-37, and 40; these represent the non-pilot fleets in 2013.*

## FLEET: Scallop Dredge OPEN LIM NE all (Row 37)



## FLEET: Mid-water Trawl OPEN all NE all (Row 40)

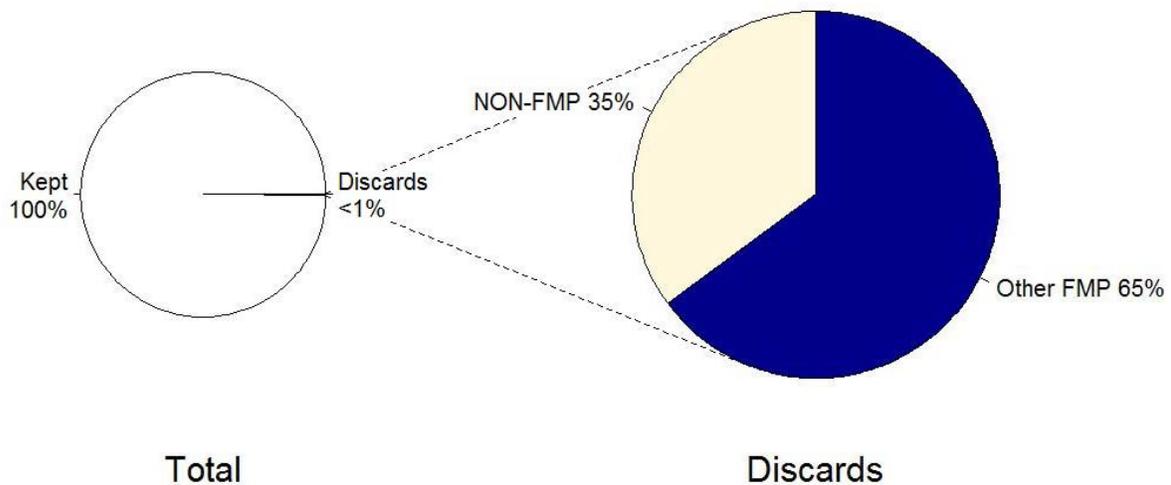
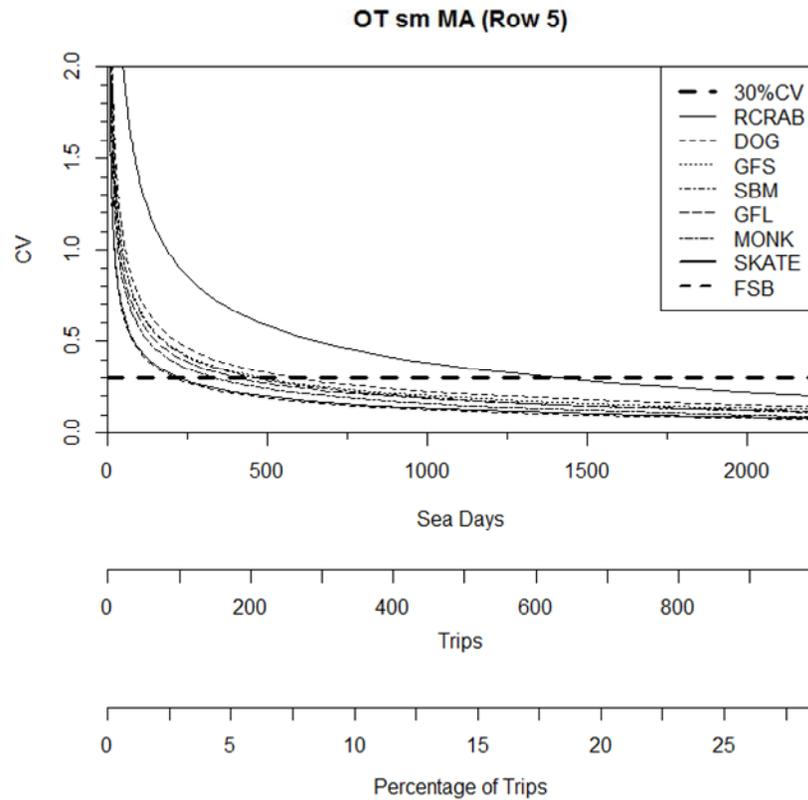
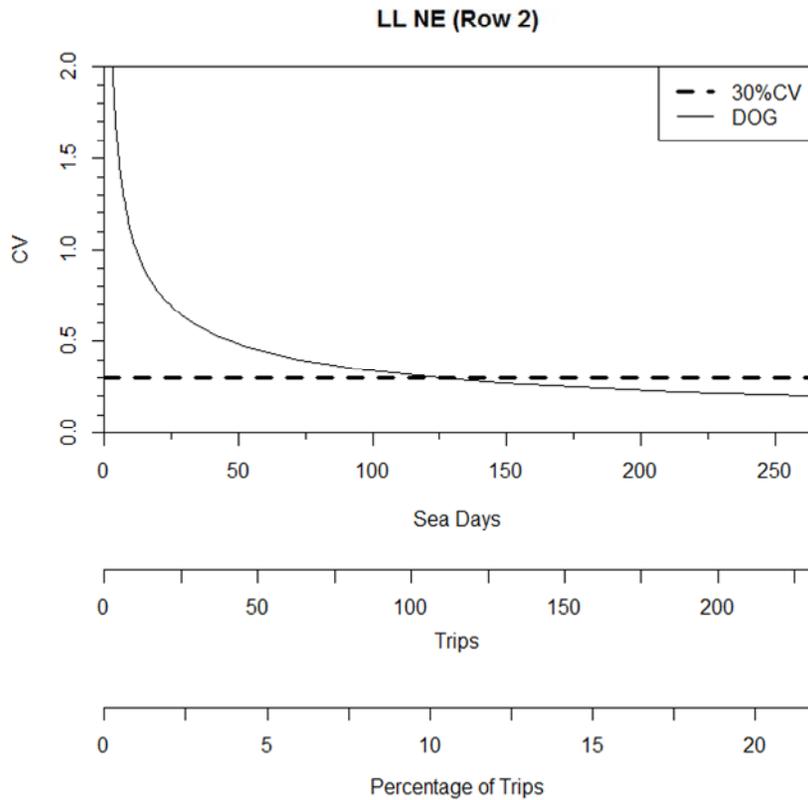


Figure 2, continued. Percentage of Vessel Trip Report landings (kept) and estimated discards (Total, left pie) and the percentage of estimated discards by species groups (Discards, right pie) for 22 selected fleets for July 2011 through June 2012. See Table 1 for species group abbreviations; FMP species groups that were filtered out through the importance filter have been aggregated and labeled “Other FMP” species groups; non-FMP species have been grouped and labeled “Non-FMP.”

*Note: Selected fleets include Rows 2, 4-8, 16-17, 19, 23-24, 26-27, 29-30, 32-37, and 40; these represent the non-pilot fleets in 2013.*



**Figure 3. Results from the 2013 sample size analysis conducted for 14 selected fleets. The curves represent the relationship between the coefficient of variance (CV) and the sample size (sea days, trips, and percentage of trips) for each of the species groups that were not filtered out. The dash line is the 30% CV. For species group and fleet abbreviations, see Table 1 and Appendix Table 4, respectively.**

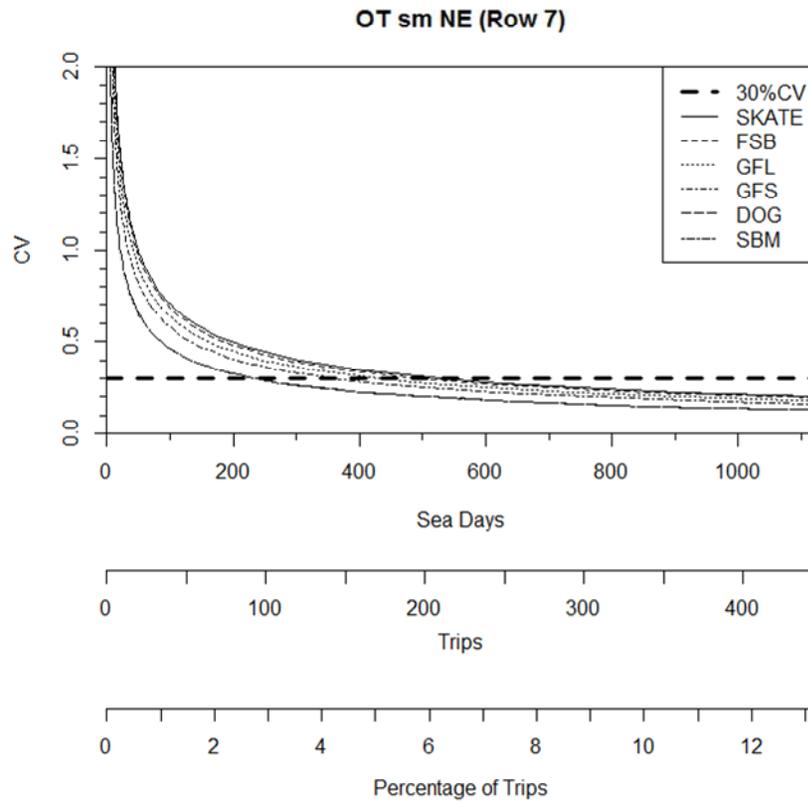
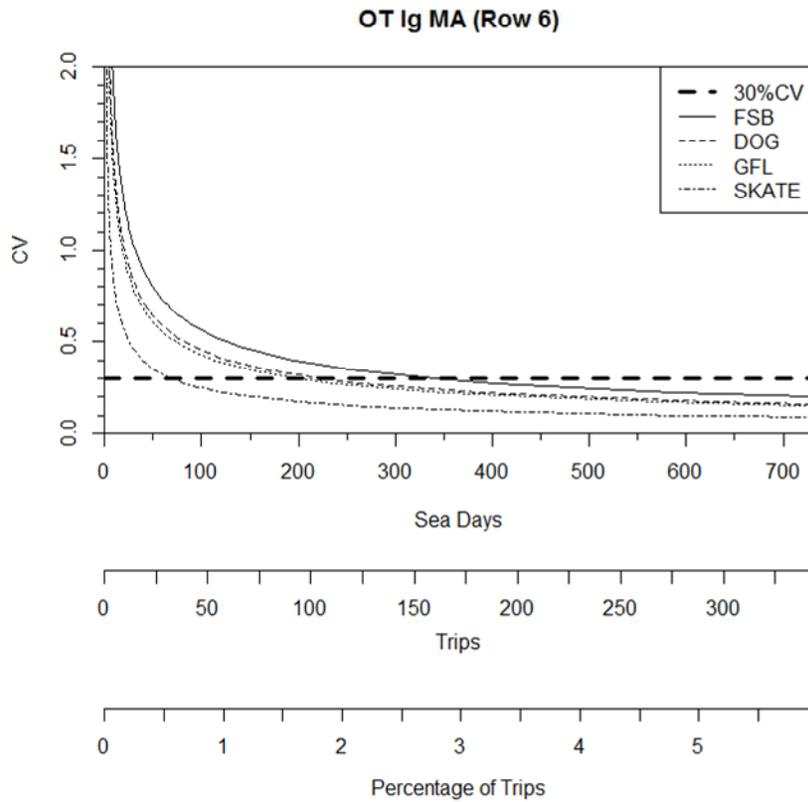


Figure 3, continued. Results from the 2013 sample size analysis conducted for 14 selected fleets. The curves represent the relationship between the coefficient of variance (CV) and the sample size (sea days, trips, and percentage of trips) for each of the species groups that were not filtered out. The dash line is the 30% CV. For species group and fleet abbreviations, see Table 1 and Appendix Table 4, respectively.

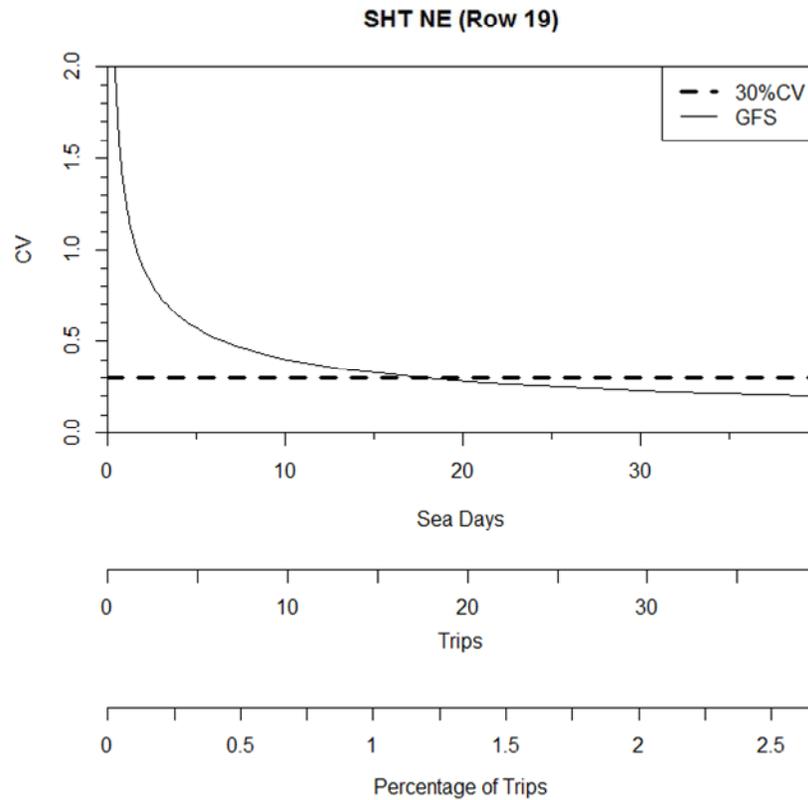
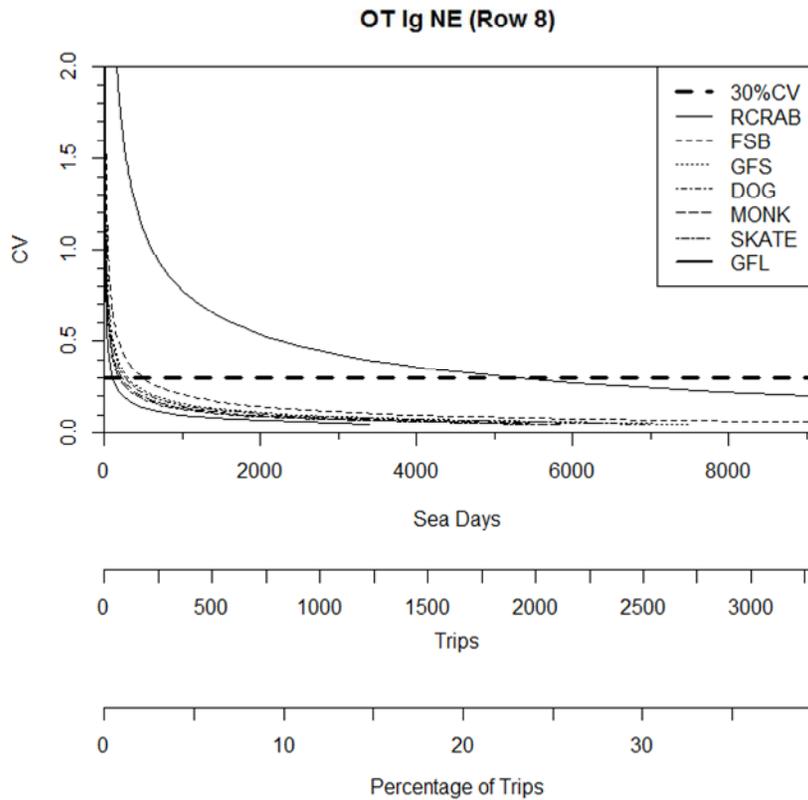
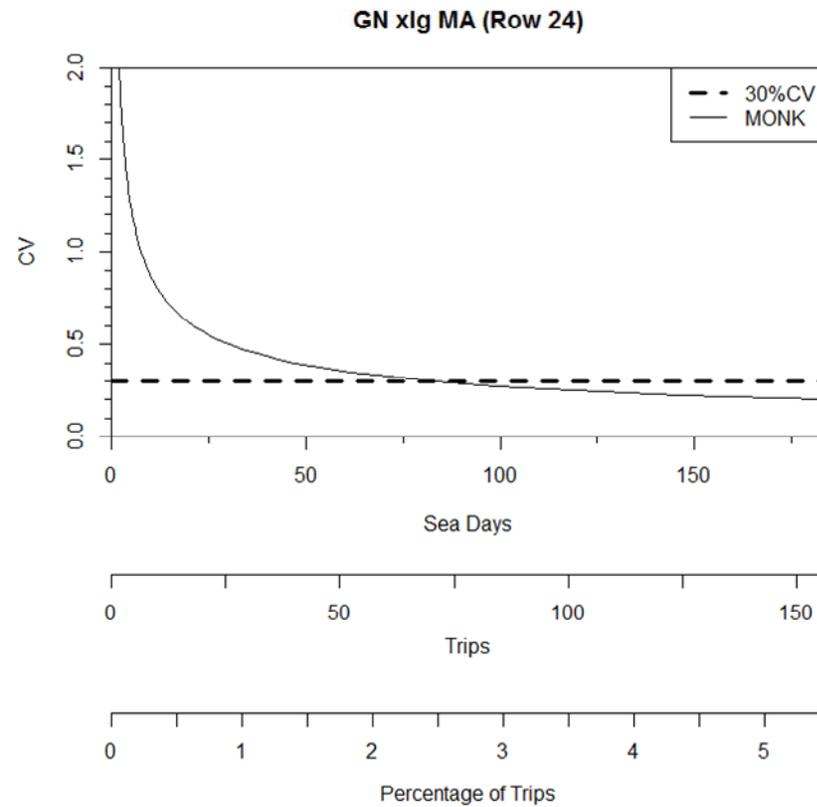
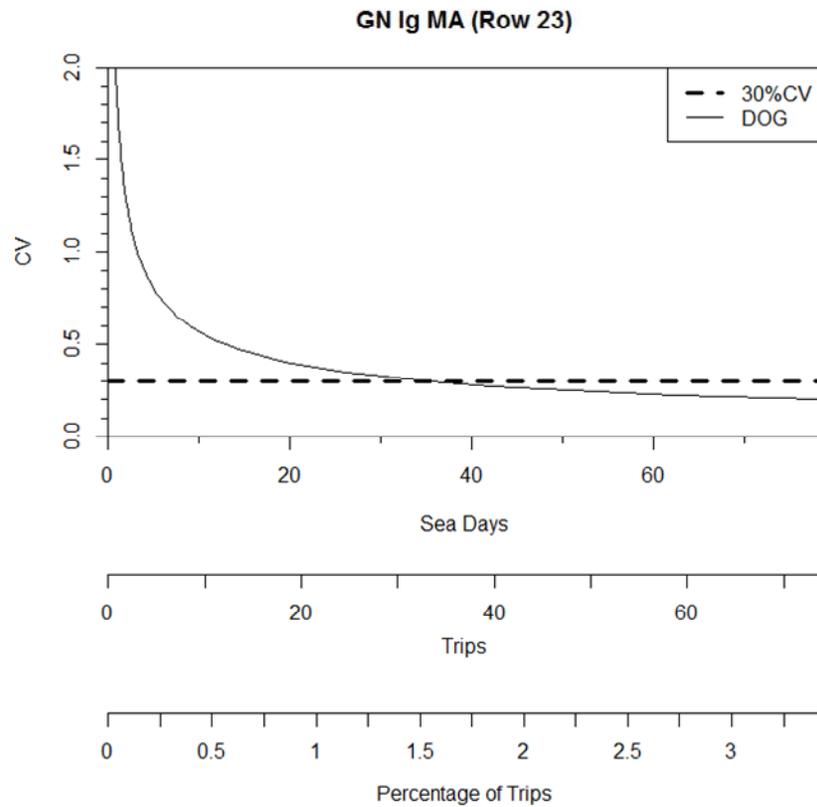


Figure 3, continued. Results from the 2013 sample size analysis conducted for 14 selected fleets. The curves represent the relationship between the coefficient of variance (CV) and the sample size (sea days, trips, and percentage of trips) for each of the species groups that were not filtered out. The dash line is the 30% CV. For species group and fleet abbreviations, see Table 1 and Appendix Table 4, respectively.



**Figure 3, continued. Results from the 2013 sample size analysis conducted for 14 selected fleets. The curves represent the relationship between the coefficient of variance (CV) and the sample size (sea days, trips, and percentage of trips) for each of the species groups that were not filtered out. The dash line is the 30% CV. For species group and fleet abbreviations, see Table 1 and Appendix Table 4, respectively.**

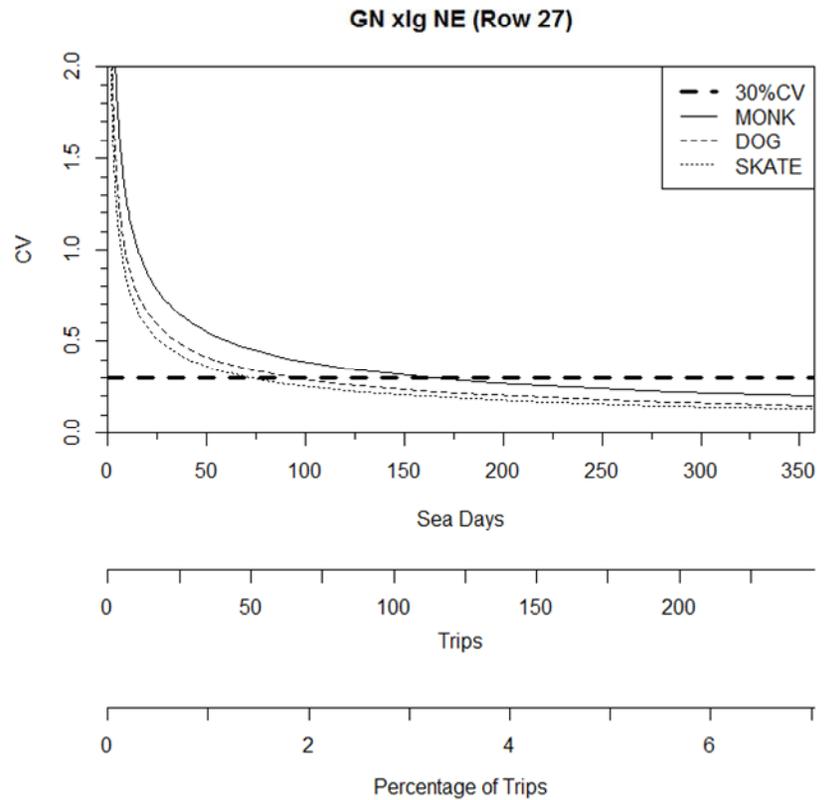
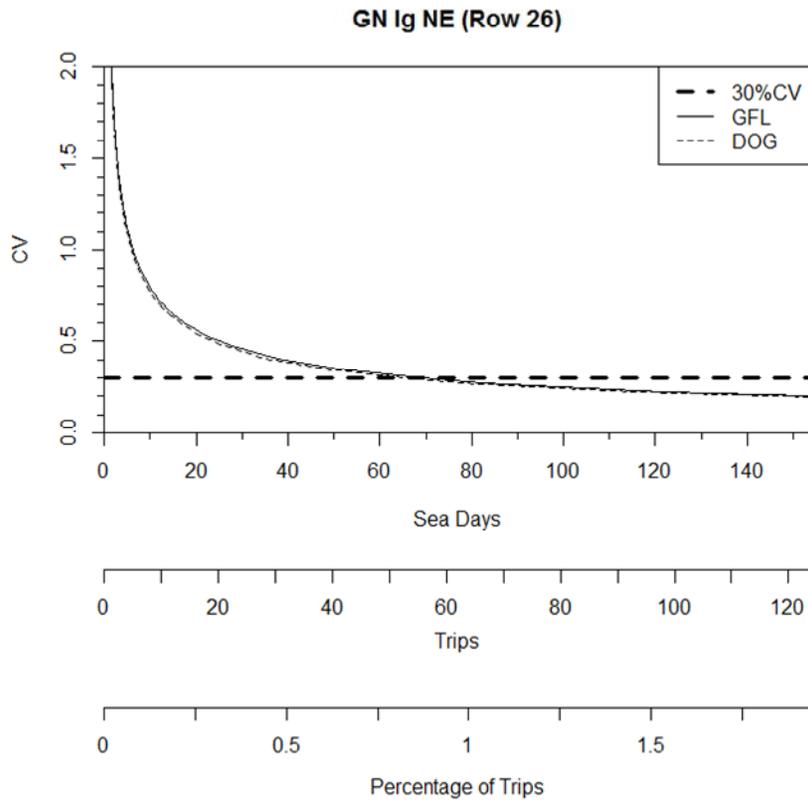
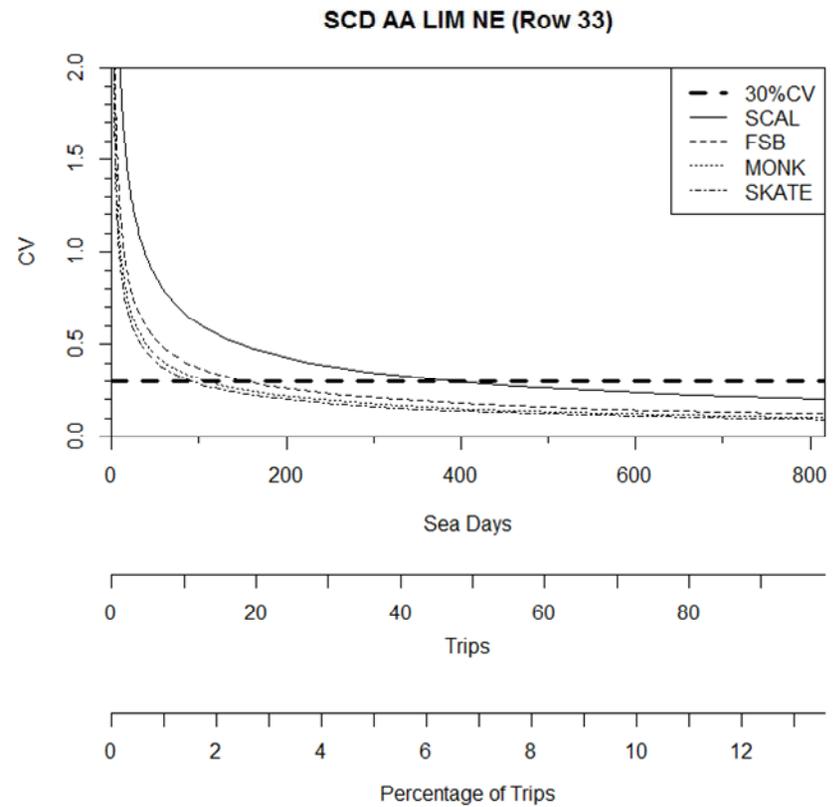
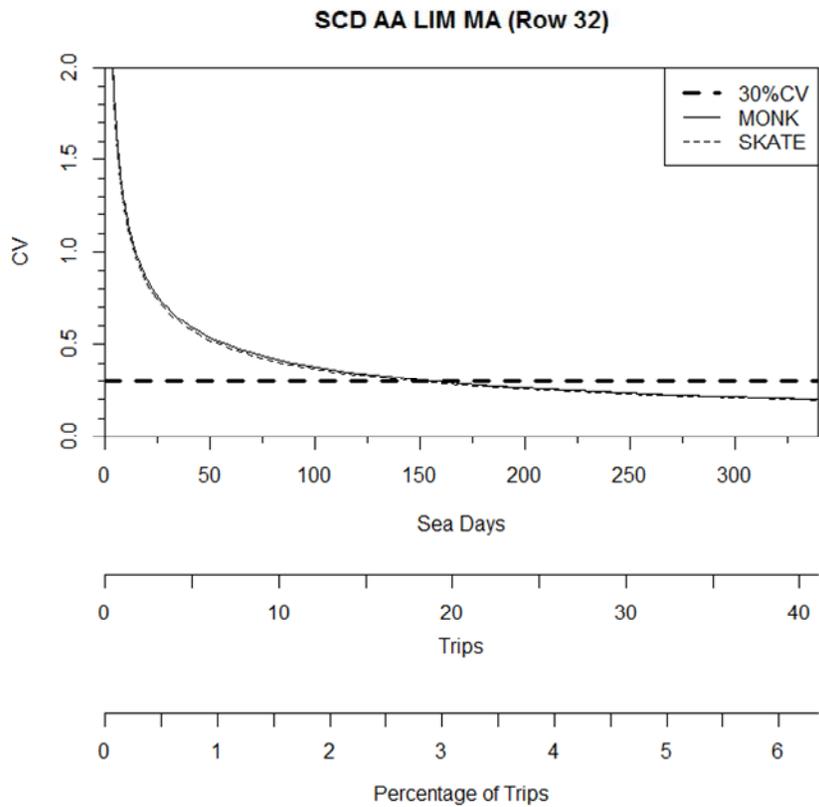
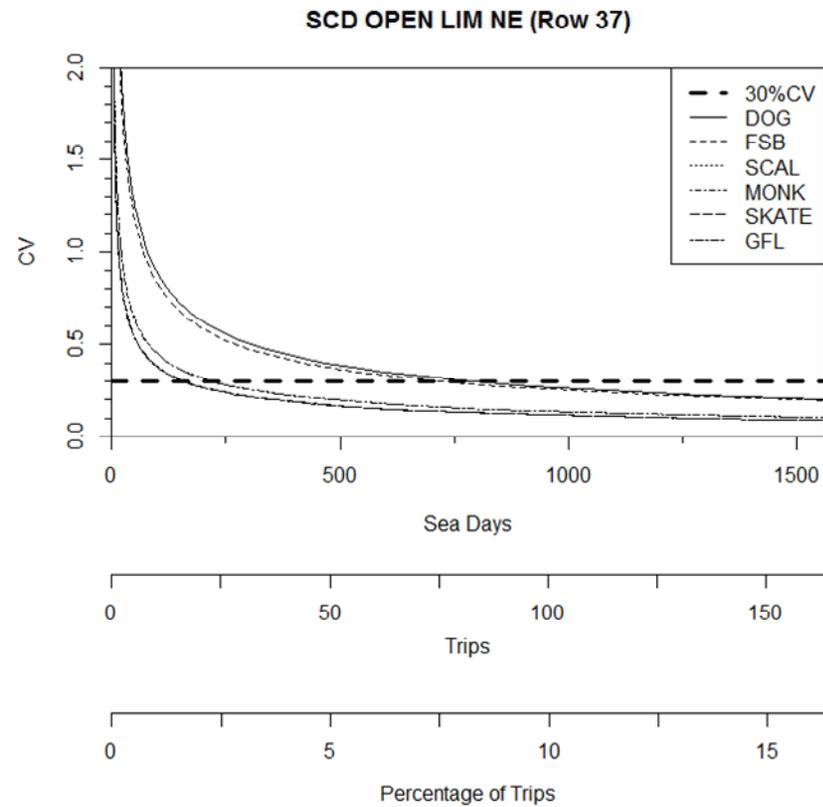
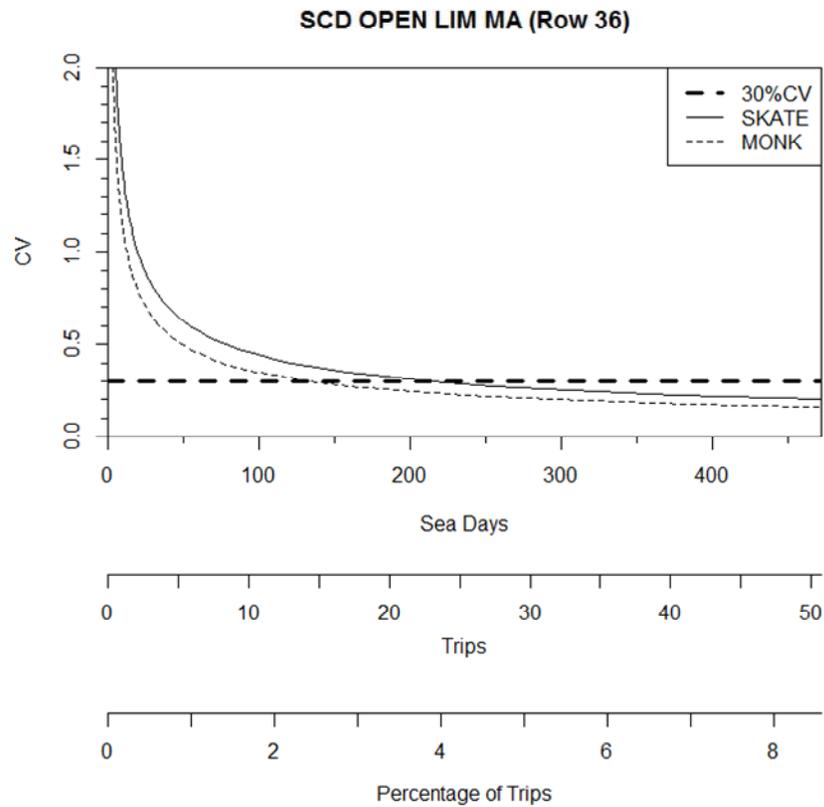


Figure 3, continued. Results from the 2013 sample size analysis conducted for 14 selected fleets. The curves represent the relationship between the coefficient of variance (CV) and the sample size (sea days, trips, and percentage of trips) for each of the species groups that were not filtered out. The dash line is the 30% CV. For species group and fleet abbreviations, see Table 1 and Appendix Table 4, respectively.



**Figure 3, continued. Results from the 2013 sample size analysis conducted for 14 selected fleets. The curves represent the relationship between the coefficient of variance (CV) and the sample size (sea days, trips, and percentage of trips) for each of the species groups that were not filtered out. The dash line is the 30% CV. For species group and fleet abbreviations, see Table 1 and Appendix Table 4, respectively.**



**Figure 3, continued. Results from the 2013 sample size analysis conducted for 14 selected fleets. The curves represent the relationship between the coefficient of variance (CV) and the sample size (sea days, trips, and percentage of trips) for each of the species groups that were not filtered out. The dash line is the 30% CV. For species group and fleet abbreviations, see Table 1 and Appendix Table 4, respectively**

## APPENDIX

Equations used in discard estimation and sample size analysis

Total discarded pounds for species  $j$  is defined as:

$$(1) \quad \hat{D}_j = \sum_{h=1}^Q K_h r_{c,j}$$

where

$$(2) \quad r_{c,j} = \frac{\sum_{h=1}^Q N_h \sum_{i=1}^{n_h} \frac{d_{jih}}{n_h}}{\sum_{h=1}^Q N_h \sum_{i=1}^{n_h} \frac{k_{ih}}{n_h}}$$

Where  $\hat{D}_j$  is total discarded pounds for species  $j$ ;  $K_h$  is VTR total kept pounds in stratum  $h$ ;  $r_{c,j}$  is the combined ratio of species  $j$ ;  $d_{jih}$  is discards of species  $j$  from trip  $i$  in stratum  $h$ ;  $k_{ih}$  is kept pounds of all species on trip  $i$  in stratum  $h$ ;  $N_h$  is the number of VTR trips in stratum  $h$ ;  $n_h$  is the number of observed trips in stratum  $h$ . In Eq. 2 the summation over strata  $h = 1$  to  $Q$  is over calendar quarters and the other strata values are held constant. Equation 3 (below) requires a more explicit definition of the stratum designation since the summation over quarter relies on an annual average ratio defined in Eq. 2.

Variance of  $\hat{D}_j$  for species  $j$  is defined as:

$$(3) \quad V(\hat{D}_j) = \sum_{q=1}^4 K_{qh}^2 \left( \frac{N_{qh} - n_{qh}}{n_{qh} N_{qh}} \right) \frac{1}{\left( \frac{\sum_{i=1}^{n_h} k_{iqh}}{n_{qh}} \right)^2} \left[ \frac{\sum_{i=1}^{n_{qh}} \left( d_{jiqh}^2 + (r_{c,j})^2 k_{iqh}^2 - 2r_{c,j} d_{jiqh} k_{iqh} \right)}{n_{qh} - 1} \right]$$

where  $\hat{D}_j$  is total discarded pounds for species  $j$ ;  $K_{qh}$  is VTR total kept pounds in quarter  $q$  and stratum  $h$ ;  $r_{c,j}$  is the combined ratio of species  $j$ ;  $d_{jiqh}$  is discards of species  $j$  from trip  $i$  in quarter  $q$  and stratum  $h$ ;  $k_{iqh}$  is kept pounds of all species on trip  $i$  in quarter  $q$  and stratum  $h$ ;  $N_{qh}$  is the number of VTR trips in quarter  $q$  and stratum  $h$ ;  $n_{qh}$  is the number of observed trips in quarter  $q$  and stratum  $h$ .

Coefficient of variation (CV) of  $\hat{D}_j$  is defined as:

$$(4) \quad CV(\hat{D}_j) = \frac{\sqrt{V(\hat{D}_j)}}{\hat{D}_j}$$

The number of sea days and trips needed to achieve a 30% CV are derived based on the variance of the total discards using the combined ratio method and the d/k discard ratio (Eq. 3).

From Eq. 3, let

$$(5) \quad \hat{S}_{jqh}^2 = \left[ \frac{\sum_{i=1}^{n_{qh}} \left( d_{jiqh}^2 + (r_{c,jh})^2 k_{iqh}^2 - 2r_{c,j} d_{jiqh} k_{iqh} \right)}{n_{qh} - 1} \right] \quad \text{and}$$

$$(6) \quad \delta_{qh} = \frac{n_{qh}}{\sum_{q=1}^4 n_{qh}}$$

where  $\delta_{qh}$  is the fraction of the trips in quarter  $q$  in stratum  $h$ ;  $r_{c,jh}$  is the combined annual ratio of species  $j$  in stratum  $h$ ;  $d_{jiqh}$  is discards of species  $j$  from trip  $i$  in stratum  $h$  in quarter  $q$ ;  $k_{iqh}$  is kept pounds of all species on trip  $i$  in stratum  $h$  in quarter  $q$ ; and  $n_{qh}$  is the number of observed trips in stratum  $h$  in quarter  $q$ . The  $r_{c,jh}$  in Eq. 5 is defined in Eq. 2 where the summation is over quarters within a given strata defined by gear, region, access area, trip type and so forth.

The number of trips necessary to achieve a 30% CV based on the variance of the composite annual total discards for species group  $j$  in stratum  $h$  is defined as

$$(7) \quad \hat{T}D_{30jh} = \frac{\sum_{q=1}^4 \left( \frac{K_{qh}^2}{\bar{k}_{qh}^2} \hat{S}_{jqh}^2 \frac{1}{\delta_{qh}} \right)}{(0.09) \hat{D}_{jh}^2 + \frac{\sum_{q=1}^4 \frac{K_{qh}^2}{\bar{k}_{qh}^2} \hat{S}_{jqh}^2}{N_h}}$$

where  $0.09 = 0.30^2$ , the square of the 30% CV, the given target precision level.

The number of sea days necessary to achieve a 30% CV based on the variance of the composite annual total discards for species group  $j$  in stratum  $h$  is defined as

$$(8) \quad \hat{S}D_{30jh} = \hat{T}D_{30jh} * \overline{DA}_h$$

where  $\overline{DA}_h$  is the weighted average trip length of VTR trips in stratum  $h$  (weighted by the number of VTR trips in each quarter) .

When total discards could not be estimated due to little or no observer coverage (no data) or when total discards are zero (no variance), sample size was determined by pilot cover, where 2% of the quarterly VTR trips for a fleet were multiplied by the quarterly mean VTR trip length.

$$(9) \hat{S}_{30,jhq} = \hat{T}_{hq} * \overline{DA}_{hq}$$

where  $\hat{T}_{hq}$  is 2% of the VTR trips in stratum  $h$  and quarter  $q$ , and  $3 \leq \hat{T}_{hq} \leq 100$  trips;  $\overline{DA}_{hq}$  is the average trip length of VTR trips in stratum  $h$  and quarter  $q$ . The quarterly trips and sea days were then summed for annual number of trips and sea days.

The achieved precision resulting from the number of funded sea days can be derived by converting funded sea days into funded trips. The number of funded trips,  $\hat{T}F_h$  for stratum  $h$  is defined as:

$$(10) \hat{T}F_h = \hat{S}F_h / \overline{DA}_h$$

where  $\hat{S}F_h$  is the number of funded sea days in stratum  $h$  and  $\overline{DA}_h$  is the weighted average trip length of VTR trips in stratum  $h$  (weighted by the number of VTR trips in each quarter).

The achieved coefficient of variation (CV) of  $\hat{D}_j$  is based on the variance of the composite annual total discards for species group  $j$  in stratum  $h$  and the number of funded trips in stratum  $h$  and re-writing Eq. 7.

From Eq. 7, let

$$(11) CV(\hat{D}_{jh}) = \sqrt{\frac{\sum_{q=1}^4 \left( \frac{K_{qh}^2}{\bar{k}_{qh}^2} \hat{S}_{jqh}^2 \frac{1}{\delta_{qh}} \right) - \hat{T}F_h \left[ \frac{\sum_{q=1}^4 \left( \frac{K_{qh}^2}{\bar{k}_{qh}^2} \hat{S}_{jqh}^2 \right)}{N_h} \right]}{\hat{T}F_h * \hat{D}_{jh}^2}}$$

**Appendix Table 1. The number of fleets used in analyses and reported in the tables of this report.**

<p>56 fleets uniquely identified in Tables 2 &amp; 3</p> <p>26 fleets with no NEFOP coverage discard estimation not conducted pilot fleet designation for sample size analysis</p> <p>    3 confidential fleets         aggregated into "Confidential fleets" in Tables 4 &amp; 5     23 non-confidential fleets</p> <p>8 fleets with sparse NEFOP coverage discard estimation conducted pilot fleet designation for sample size analysis</p> <p>    1 confidential fleet         aggregated into "Confidential fleets" in Tables 4 &amp; 5     7 non-confidential fleets</p> <p>22 fleets with sufficient NEFOP coverage discard estimation conducted variance of discard used for sample size analysis non-pilot fleets</p> <p>    1 confidential fleet         aggregated into "Confidential fleets" in Tables 4 &amp; 5     21 non-confidential fleets</p>
<p>Other minor fleets not uniquely identified includes twin trawl fleets aggregated into "Other minor fleets" in Tables 4 &amp; 5</p>

**Appendix Table 2. Discard reason categories used in Appendix Tables 3A and 3B.**

Discard Reason Category	FISH DISPOSITION Code <sup>13</sup>	FISH DISPOSITION Description
No Market	001	NO MARKET, REASON NOT SPECIFIED.
	002	NO MARKET, TOO SMALL
	003	NO MARKET, TOO LARGE
	005	NO MARKET, WON'T KEEP UNTIL TRIP END.
	006	NO MARKET, BUT RETAINED BY VESSEL FOR ALTERNATE PROGRAM.
	007	NO MARKET, BUT RETAINED FOR OBSERVER FOR SCIENTIFIC PURPOSES
	Poor Quality	031
032		POOR QUALITY, SANDFLEA DAMAGE
033		POOR QUALITY, SEAL DAMAGE
034		POOR QUALITY, SHARK DAMAGE
035		POOR QUALITY, CETACEAN DAMAGE
036		POOR QUALITY, HAGFISH DAMAGE
037		POOR QUALITY, SHALL DISEASE
038		POOR QUALITY, GEAR DAMAGE
Regulation (Size)	012	REGULATIONS PROHIBIT RETENTION, TOO SMALL
	013	REGULATIONS PROHIBIT RETENTION, TOO LARGE
Regulation (Quota)	004	NO MARKET, QUOTA FILLED
	014	REGULATIONS PROHIBIT RETENTION, QUOTA FILLED.
	015	REGULATIONS PROHIBIT RETENTION, NO QUOTA IN AREA.
	025	REGULATIONS PROHIBIT ANY RETENTION.
Regulation (Other)	011	REGULATIONS PROHIBIT RETENTION, REASON NOT SPECIFIED.
	022	REGULATIONS PROHIBIT RETENTION, V-NOTCHED
	023	REGULATIONS PROHIBIT RETENTION, SOFT-SHELL
	024	REGULATIONS PROHIBIT RETENTION, WITH EGGS.
Other	000	DISCARDED GENERAL, UNKNOWN DISCARD REASON
	041	NOT BROUGHT ON BOARD, REASON NOT SPECIFIED
	042	NOT BROUGHT ON BOARD, GEAR DAMAGE PREVENTED CAPTURE
	043	NOT BROUGHT ON BOARD, FELL OUT/OFF OF GEAR
	044	NOT BROUGHT ON BOARD, CONSIDERED TO HAVE NO MARKET VALUE.
	048	NOT BROUGHT ON BOARD, VESSEL CAPACITY FILLED
	049	NOT BROUGHT ON BOARD, NOT ENOUGH FISH TO PUMP ABOARD
	052	INCIDENTAL TAKE (MAMMAL, SEA TURTLE, SEA BIRD)
	053	DEBRIS
	054	EMPTY SHELLS
	062	UPGRADED
	063	RETAINING ONLY CERTAIN SIZE BETTER PRICE TRIP QUOTA IN EFFECT.
	099	OTHER, DISCARDED

<sup>13</sup> Fish disposition code "039" = POOR QUALITY, PREVIOUSLY DISCARDED has been excluded from this report.

**Appendix Table 3A. Estimated discards (live pounds) and percentage by discard reason category for 14 species groups for July 2011 through June 2012.**

*Species Group: ATLANTIC SALMON No discards*

*Species Group: BLUEFISH*

						Discard by Reason Category [%]							
Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Discarded	No Market	Regulation (Size)	Regulation (Quota)	Regulation (Other)	Poor Quality	Other	Total %
30 Other fleets filtered out						226,061	26.3	0.3	59.8	0.0	13.0	0.6	100.0

*Species Group: FLUKE - SCUP - BLACK SEA BASS*

						Discard by Reason Category [%]							
Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Discarded	No Market	Regulation (Size)	Regulation (Quota)	Regulation (Other)	Poor Quality	Other	Total %
5	Otter Trawl	OPEN	all	MA	sm	503,012	22.3	50.7	16.2	0.0	1.5	9.3	100.0
6	Otter Trawl	OPEN	all	MA	lg	377,305	4.0	66.1	23.7	0.1	0.5	5.6	100.0
7	Otter Trawl	OPEN	all	NE	sm	760,807	19.7	41.8	33.0	1.8	0.0	3.7	100.0
8	Otter Trawl	OPEN	all	NE	lg	590,656	3.3	13.4	75.4	0.6	2.1	5.3	100.0
33	Scallop Dredge	AA	LIM	NE	all	276,749	58.8	0.0	40.2	1.0	0.0	0.0	100.0
37	Scallop Dredge	OPEN	LIM	NE	all	331,665	83.6	0.0	16.3	0.1	0.0	0.0	100.0
24 Other fleets filtered out						761,346	35.9	10.9	51.3	0.3	1.5	0.0	100.0

*Species Group: HERRING, ATLANTIC*

						Discard by Reason Category [%]							
Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Discarded	No Market	Regulation (Size)	Regulation (Quota)	Regulation (Other)	Poor Quality	Other	Total %
30 Other fleets filtered out						297,623	45.2	0.0	8.4	0.0	12.0	34.4	100.0

See text for fleet abbreviations.

**Appendix Table 3A, continued. Estimated discards (live pounds) and percentage by discard reason category for 14 species groups for July 2011 through June 2012.**

*Species Group: LARGE MESH GROUND FISH*

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Discarded	Discard by Reason Category [%]					Total %	
							No Market	Regulation (Size)	Regulation (Quota)	Regulation (Other)	Poor Quality		Other
5	Otter Trawl	OPEN	all	MA	sm	688,061	24.5	12.1	63.4	0.1	0.0	0.0	100.0
6	Otter Trawl	OPEN	all	MA	lg	1,193,830	33.4	9.5	56.9	0.2	0.0	0.0	100.0
7	Otter Trawl	OPEN	all	NE	sm	733,516	2.8	13.2	80.3	0.0	0.0	3.7	100.0
8	Otter Trawl	OPEN	all	NE	lg	3,176,722	4.8	60.1	34.5	0.0	0.4	0.2	100.0
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	357,030	0.7	36.8	4.6	0.0	57.8	0.1	100.0
37	Scallop Dredge	OPEN	LIM	NE	all	630,199	79.3	6.4	14.1	0.0	0.1	0.0	100.0
24 Other fleets filtered out						1,249,496	36.3	19.4	42.0	0.3	1.6	0.4	100.0

*Species Group: MONKFISH*

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Discarded	Discard by Reason Category [%]					Total %	
							No Market	Regulation (Size)	Regulation (Quota)	Regulation (Other)	Poor Quality		Other
5	Otter Trawl	OPEN	all	MA	sm	252,078	18.1	57.2	10.7	0.0	0.0	14.0	100.0
8	Otter Trawl	OPEN	all	NE	lg	646,514	1.5	83.1	9.9	0.0	0.1	5.4	100.0
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlg	264,425	0.0	7.6	0.0	0.0	92.4	0.0	100.0
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlg	250,255	0.4	2.8	1.0	0.0	95.7	0.0	100.0
32	Scallop Dredge	AA	LIM	MA	all	607,241	65.4	19.7	14.6	0.0	0.2	0.0	100.0
33	Scallop Dredge	AA	LIM	NE	all	883,724	72.6	22.2	2.9	0.0	0.1	2.2	100.0
36	Scallop Dredge	OPEN	LIM	MA	all	1,465,851	74.4	17.4	8.0	0.0	0.2	0.0	100.0
37	Scallop Dredge	OPEN	LIM	NE	all	2,218,045	82.5	14.7	1.3	0.0	0.0	1.4	100.0
22 Other fleets filtered out						517,808	35.0	55.4	8.0	0.0	0.9	0.8	100.0

See text for fleet abbreviations.

Appendix Table 3A, continued. Estimated discards (live pounds) and percentage by discard reason category for 14 species groups for July 2011 through June 2012.

*Species Group: RED CRAB*

						Discard by Reason Category [%]							
Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Discarded	No Market	Regulation (Size)	Regulation (Quota)	Regulation (Other)	Poor Quality	Other	Total %
5	Otter Trawl	OPEN	all	MA	sm	103,058	100.0	0.0	0.0	0.0	0.0	0.0	100.0
8	Otter Trawl	OPEN	all	NE	lg	207,585	99.8	0.0	0.2	0.0	0.0	0.0	100.0
28 Other fleets filtered out						751	99.5	0.0	0.0	0.0	0.5	0.0	100.0

*Species Group: SEA SCALLOP*

						Discard by Reason Category [%]							
Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Discarded	No Market	Regulation (Size)	Regulation (Quota)	Regulation (Other)	Poor Quality	Other	Total %
33	Scallop Dredge	AA	LIM	NE	all	5,809,263	55.2	0.1	3.8	0.0	31.7	9.3	100.0
37	Scallop Dredge	OPEN	LIM	NE	all	6,971,186	81.1	0.0	0.0	0.0	18.9	0.0	100.0
28 Other fleets filtered out						5,575,546	65.8	1.1	10.2	1.0	17.2	4.7	100.0

*Species Group: SKATE COMPLEX*

						Discard by Reason Category [%]							
Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Discarded	No Market	Regulation (Size)	Regulation (Quota)	Regulation (Other)	Poor Quality	Other	Total %
5	Otter Trawl	OPEN	all	MA	sm	5,862,541	94.3	0.0	5.3	0.0	0.0	0.3	100.0
6	Otter Trawl	OPEN	all	MA	lg	14,188,085	91.3	0.1	7.6	0.1	0.0	0.9	100.0
7	Otter Trawl	OPEN	all	NE	sm	1,371,774	76.7	0.0	20.6	0.0	0.0	2.7	100.0
8	Otter Trawl	OPEN	all	NE	lg	28,754,373	76.4	0.5	21.3	0.0	0.0	1.7	100.0
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlg	2,672,313	29.5	0.0	52.7	0.2	14.5	3.0	100.0
32	Scallop Dredge	AA	LIM	MA	all	1,468,650	98.0	0.0	1.9	0.1	0.0	0.0	100.0
33	Scallop Dredge	AA	LIM	NE	all	2,999,548	97.1	0.0	2.9	0.0	0.0	0.0	100.0
36	Scallop Dredge	OPEN	LIM	MA	all	4,566,899	99.6	0.0	0.4	0.0	0.1	0.0	100.0
37	Scallop Dredge	OPEN	LIM	NE	all	8,098,321	99.1	0.0	0.9	0.0	0.0	0.0	100.0
21 Other fleets filtered out						9,644,786	84.7	0.0	14.6	0.0	0.6	0.1	100.0

Appendix Table 3A, continued. Estimated discards (live pounds) and percentage by discard reason category for 14 species groups for July 2011 through June 2012.

*Species Group: SMALL MESH GROUND FISH*

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Discarded	Discard by Reason Category [%]						Total %
							No Market	Regulation (Size)	Regulation (Quota)	Regulation (Other)	Poor Quality	Other	
5	Otter Trawl	OPEN	all	MA	sm	2,139,297	93.3	3.0	0.0	0.0	3.6	0.0	100.0
7	Otter Trawl	OPEN	all	NE	sm	3,254,000	82.7	0.0	3.3	0.7	7.1	6.1	100.0
8	Otter Trawl	OPEN	all	NE	lg	323,018	92.8	0.5	5.9	0.0	0.8	0.0	100.0
19	Shrimp Trawl	OPEN	all	NE	all	269,098	86.0	0.0	14.0	0.0	0.0	0.0	100.0
26 Other fleets filtered out						380,703	97.6	0.1	1.5	0.0	0.8	0.0	100.0

*Species Group: SPINY DOGFISH*

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Discarded	Discard by Reason Category [%]						Total %
							No Market	Regulation (Size)	Regulation (Quota)	Regulation (Other)	Poor Quality	Other	
2	Longline	OPEN	all	NE	all	257,715	33.8	0.0	59.0	3.0	0.2	4.1	100.0
5	Otter Trawl	OPEN	all	MA	sm	4,791,054	46.1	1.1	52.2	0.0	0.3	0.3	100.0
6	Otter Trawl	OPEN	all	MA	lg	2,369,785	47.4	0.0	52.6	0.0	0.0	0.0	100.0
7	Otter Trawl	OPEN	all	NE	sm	1,699,123	86.7	0.0	13.3	0.0	0.0	0.0	100.0
8	Otter Trawl	OPEN	all	NE	lg	7,095,547	61.2	0.0	38.7	0.1	0.0	0.0	100.0
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	514,414	0.9	0.0	40.1	0.0	58.9	0.0	100.0
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	4,083,981	44.2	0.3	53.1	0.0	1.2	1.3	100.0
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlg	265,053	36.6	0.2	53.5	0.1	8.6	1.1	100.0
37	Scallop Dredge	OPEN	LIM	NE	all	239,804	99.7	0.0	0.2	0.0	0.1	0.0	100.0
21 Other fleets filtered out						1,515,896	79.4	0.0	13.7	0.0	1.4	5.5	100.0

Appendix Table 3A, continued. Estimated discards (live pounds) and percentage by discard reason category for 14 species groups for July 2011 through June 2012.

*Species Group: SQUID - BUTTERFISH – MACKEREL*

						Discard by Reason Category [%]							
Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Discarded	No Market	Regulation (Size)	Regulation (Quota)	Regulation (Other)	Poor Quality	Other	Total %
5	Otter Trawl	OPEN	all	MA	sm	2,996,308	58.2	0.7	36.3	2.3	0.2	2.3	100.0
7	Otter Trawl	OPEN	all	NE	sm	2,130,847	78.6	0.1	15.4	0.0	3.7	2.3	100.0
28 Other fleets filtered out						211,064	93.3	0.1	5.9	0.0	0.4	0.2	100.0

*Species Group: SURFCLAM - OCEAN QUAHOG*

						Discard by Reason Category [%]							
Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Discarded	No Market	Regulation (Size)	Regulation (Quota)	Regulation (Other)	Poor Quality	Other	Total %
30 Other fleets filtered out						93,624	99.7	0.0	0.3	0.0	0.0	0.0	100.0

*Species Group: TILEFISH*

						Discard by Reason Category [%]							
Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Discarded	No Market	Regulation (Size)	Regulation (Quota)	Regulation (Other)	Poor Quality	Other	Total %
30 Other fleets filtered out						18,966	54.5	0.8	35.6	0.0	9.1	0.0	100.0

**Appendix Table 3B. Estimated discards (live pounds) and percentage by discard reason category for the 23 individual species that comprise the 14 species groups for July 2011 through June 2012.**

*Species Group: BLACK SEA BASS*

						Discard by Reason Category [%]							
Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Discarded	No Market	Regulation (Size)	Regulation (Quota)	Regulation (Other)	Poor Quality	Other	Total %
5	Otter Trawl	OPEN	all	MA	sm	84,225	36.6	33.2	30.1	0.0	0.0	0.0	100.0
6	Otter Trawl	OPEN	all	MA	lg	51,526	0.6	18.1	80.8	0.5	0.0	0.0	100.0
7	Otter Trawl	OPEN	all	NE	sm	77,471	1.0	13.2	73.7	0.0	0.0	12.1	100.0
27 Other fleets filtered out						37,019	26.9	14.6	55.9	2.4	0.2	0.0	100.0

*Species Group: FLUKE*

						Discard by Reason Category [%]							
Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Discarded	No Market	Regulation (Size)	Regulation (Quota)	Regulation (Other)	Poor Quality	Other	Total %
5	Otter Trawl	OPEN	all	MA	sm	212,198	17.1	45.8	32.4	0.0	1.0	3.7	100.0
6	Otter Trawl	OPEN	all	MA	lg	178,743	6.4	58.3	28.0	0.2	1.2	5.9	100.0
8	Otter Trawl	OPEN	all	NE	lg	515,693	0.8	5.1	85.0	0.5	2.4	6.2	100.0
32	Scallop Dredge	AA	LIM	MA	all	157,360	56.5	15.0	26.9	1.5	0.1	0.1	100.0
33	Scallop Dredge	AA	LIM	NE	all	271,666	58.4	0.0	40.6	1.0	0.0	0.0	100.0
36	Scallop Dredge	OPEN	LIM	MA	all	199,945	71.1	15.6	13.1	0.0	0.1	0.0	100.0
37	Scallop Dredge	OPEN	LIM	NE	all	328,246	83.8	0.0	16.1	0.1	0.0	0.0	100.0
23 Other fleets filtered out						544,467	9.1	8.6	75.8	2.6	2.0	2.0	100.0

*Species Group: SCUP*

						Discard by Reason Category [%]							
Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Discarded	No Market	Regulation (Size)	Regulation (Quota)	Regulation (Other)	Poor Quality	Other	Total %
5	Otter Trawl	OPEN	all	MA	sm	206,588	21.3	59.9	0.0	0.0	2.4	16.4	100.0
7	Otter Trawl	OPEN	all	NE	sm	535,772	25.3	53.0	19.9	0.0	0.0	1.7	100.0
28 Other fleets filtered out						200,620	8.4	85.6	0.8	0.0	0.1	5.2	100.0

See text for fleet abbreviations.

**Appendix Table 3B, continued. Estimated discards (live pounds) and percentage by discard reason category for the 23 individual species that comprise the 14 species groups for July 2011 through June 2012.**

*Species Group: AMERICAN PLAICE*

						Discard by Reason Category [%]							
Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Discarded	No Market	Regulation (Size)	Regulation (Quota)	Regulation (Other)	Poor Quality	Other	Total %
8	Otter Trawl	OPEN	all	NE	lg	493,245	0.2	99.3	0.0	0.0	0.5	0.0	100.0
19	Shrimp Trawl	OPEN	all	NE	all	59,095	43.1	0.0	56.9	0.0	0.0	0.0	100.0
28 Other fleets filtered out						37,184	46.8	27.4	25.1	0.1	0.6	0.0	100.0

*Species Group: ATLANTIC COD*

						Discard by Reason Category [%]							
Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Discarded	No Market	Regulation (Size)	Regulation (Quota)	Regulation (Other)	Poor Quality	Other	Total %
8	Otter Trawl	OPEN	all	NE	lg	439,920	0.0	97.7	2.0	0.0	0.3	0.0	100.0
29 Other fleets filtered out						205,620	4.6	61.8	7.1	0.2	25.6	0.7	100.0

*Species Group: ATLANTIC HALIBUT*

						Discard by Reason Category [%]							
Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Discarded	No Market	Regulation (Size)	Regulation (Quota)	Regulation (Other)	Poor Quality	Other	Total %
7	Otter Trawl	OPEN	all	NE	sm	1,405	96.1	3.5	0.3	0.0	0.0	0.0	100.0
8	Otter Trawl	OPEN	all	NE	lg	50,728	0.4	85.5	12.5	0.0	0.0	1.6	100.0
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlg	2,981	0.0	79.8	20.2	0.0	0.0	0.0	100.0
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	6,250	1.0	95.2	0.6	0.0	3.2	0.0	100.0
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlg	6,575	0.0	63.9	15.8	0.0	17.4	2.9	100.0
36	Scallop Dredge	OPEN	LIM	MA	all	1,299	100.0	0.0	0.0	0.0	0.0	0.0	100.0
24 Other fleets filtered out						2,592	36.5	61.8	1.7	0.0	0.0	0.0	100.0

See text for fleet abbreviations.

**Appendix Table 3B, continued. Estimated discards (live pounds) and percentage by discard reason category for the 23 individual species that comprise the 14 species groups for July 2011 through June 2012.**

*Species Group: ATLANTIC WOLFFISH*

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Discarded	Discard by Reason Category [%]						
							No Market	Regulation (Size)	Regulation (Quota)	Regulation (Other)	Poor Quality	Other	Total %
2	Longline	OPEN	all	NE	all	3,903	14.6	0.0	82.1	0.0	0.3	2.9	100.0
8	Otter Trawl	OPEN	all	NE	lg	65,076	0.4	0.0	99.6	0.0	0.0	0.0	100.0
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	10,023	0.5	0.0	99.5	0.0	0.0	0.0	100.0
27 Other fleets filtered out						3,550	11.6	0.0	88.4	0.0	0.0	0.0	100.0

*Species Group: HADDOCK*

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Discarded	Discard by Reason Category [%]						
							No Market	Regulation (Size)	Regulation (Quota)	Regulation (Other)	Poor Quality	Other	Total %
7	Otter Trawl	OPEN	all	NE	sm	394,690	0.1	4.6	95.3	0.0	0.0	0.0	100.0
8	Otter Trawl	OPEN	all	NE	lg	144,054	1.2	98.2	0.0	0.0	0.6	0.0	100.0
28 Other fleets filtered out						128,330	5.2	80.5	9.3	0.0	3.6	1.4	100.0

*Species Group: OCEAN POUT*

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Discarded	Discard by Reason Category [%]						
							No Market	Regulation (Size)	Regulation (Quota)	Regulation (Other)	Poor Quality	Other	Total %
2	Longline	OPEN	all	NE	all	11,042	59.3	0.0	40.7	0.0	0.0	0.0	100.0
5	Otter Trawl	OPEN	all	MA	sm	21,918	62.0	0.0	38.0	0.0	0.0	0.0	100.0
6	Otter Trawl	OPEN	all	MA	lg	125,638	71.0	0.0	29.0	0.0	0.0	0.0	100.0
7	Otter Trawl	OPEN	all	NE	sm	6,440	69.6	0.0	30.4	0.0	0.0	0.0	100.0
8	Otter Trawl	OPEN	all	NE	lg	124,078	17.8	0.0	82.2	0.0	0.0	0.0	100.0
25 Other fleets filtered out						13,678	76.1	0.0	23.9	0.0	0.0	0.0	100.0

**Appendix Table 3B, continued. Estimated discards (live pounds) and percentage by discard reason category for the 23 individual species that comprise the 14 species groups for July 2011 through June 2012.**

*Species Group: POLLOCK*

						Discard by Reason Category [%]							
Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Discarded	No Market	Regulation (Size)	Regulation (Quota)	Regulation (Other)	Poor Quality	Other	Total %
						223,081	0.1	38.7	1.3	0.0	59.9	0.1	100.0
30 Other fleets filtered out													

*Species Group: REDFISH*

						Discard by Reason Category [%]							
Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Discarded	No Market	Regulation (Size)	Regulation (Quota)	Regulation (Other)	Poor Quality	Other	Total %
8	Otter Trawl	OPEN	all	NE	1g	330,212	5.4	93.4	0.0	0.0	0.1	1.1	100.0
29 Other fleets filtered out						105,015	13.8	65.1	2.4	0.0	0.7	18.0	100.0

*Species Group: WHITE HAKE*

						Discard by Reason Category [%]							
Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Discarded	No Market	Regulation (Size)	Regulation (Quota)	Regulation (Other)	Poor Quality	Other	Total %
30 Other fleets filtered out						124,034	60.7	2.1	1.8	0.1	34.2	1.1	100.0

*Species Group: WINDOWPANE FLOUNDER*

						Discard by Reason Category [%]							
Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Discarded	No Market	Regulation (Size)	Regulation (Quota)	Regulation (Other)	Poor Quality	Other	Total %
5	Otter Trawl	OPEN	all	MA	sm	140,143	53.7	0.3	46.0	0.0	0.0	0.0	100.0
6	Otter Trawl	OPEN	all	MA	lg	749,766	28.7	14.0	57.3	0.0	0.0	0.0	100.0
7	Otter Trawl	OPEN	all	NE	sm	42,559	17.1	0.0	82.9	0.0	0.0	0.0	100.0
8	Otter Trawl	OPEN	all	NE	lg	510,280	14.3	0.3	85.3	0.0	0.0	0.0	100.0
33	Scallop Dredge	AA	LIM	NE	all	41,651	55.3	0.0	44.7	0.0	0.0	0.0	100.0
36	Scallop Dredge	OPEN	LIM	MA	all	106,782	70.9	0.0	29.1	0.0	0.0	0.0	100.0
37	Scallop Dredge	OPEN	LIM	NE	all	121,539	83.0	0.0	17.0	0.0	0.0	0.0	100.0
23 Other fleets filtered out						160,469	17.8	0.0	82.2	0.0	0.0	0.0	100.0

**Appendix Table 3B, continued. Estimated discards (live pounds) and percentage by discard reason category for the 23 individual species that comprise the 14 species groups for July 2011 through June 2012.**

*Species Group: WINTER FLOUNDER*

						Discard by Reason Category [%]							
Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Discarded	No Market	Regulation (Size)	Regulation (Quota)	Regulation (Other)	Poor Quality	Other	Total %
5	Otter Trawl	OPEN	all	MA	sm	236,244	12.4	0.4	87.2	0.0	0.0	0.0	100.0
6	Otter Trawl	OPEN	all	MA	lg	290,502	36.0	0.0	64.0	0.0	0.0	0.0	100.0
7	Otter Trawl	OPEN	all	NE	sm	138,147	0.7	1.4	97.9	0.0	0.0	0.0	100.0
8	Otter Trawl	OPEN	all	NE	lg	530,958	0.5	7.6	91.6	0.0	0.3	0.0	100.0
33	Scallop Dredge	AA	LIM	NE	all	186,935	55.7	0.2	43.8	0.3	0.0	0.0	100.0
37	Scallop Dredge	OPEN	LIM	NE	all	203,993	85.0	0.2	14.7	0.0	0.0	0.0	100.0
24 Other fleets filtered out						195,011	16.4	1.4	81.7	0.1	0.3	0.0	100.0

*Species Group: WITCH FLOUNDER*

						Discard by Reason Category [%]							
Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Discarded	No Market	Regulation (Size)	Regulation (Quota)	Regulation (Other)	Poor Quality	Other	Total %
5	Otter Trawl	OPEN	all	MA	sm	198,319	17.0	0.0	82.9	0.1	0.0	0.0	100.0
8	Otter Trawl	OPEN	all	NE	lg	131,619	0.3	98.4	0.9	0.0	0.3	0.0	100.0
37	Scallop Dredge	OPEN	LIM	NE	all	40,811	98.9	0.8	0.3	0.0	0.0	0.0	100.0
27 Other fleets filtered out						45,924	63.7	10.1	25.6	0.4	0.2	0.1	100.0

*Species Group: YELLOWTAIL FLOUNDER*

						Discard by Reason Category [%]							
Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Discarded	No Market	Regulation (Size)	Regulation (Quota)	Regulation (Other)	Poor Quality	Other	Total %
5	Otter Trawl	OPEN	all	MA	sm	32,494	2.4	0.6	96.9	0.0	0.0	0.0	100.0
7	Otter Trawl	OPEN	all	NE	sm	55,157	0.3	0.0	99.7	0.0	0.0	0.0	100.0
8	Otter Trawl	OPEN	all	NE	lg	282,961	0.1	99.1	0.3	0.0	0.3	0.2	100.0
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	34,565	0.0	97.9	0.0	0.0	2.0	0.0	100.0
33	Scallop Dredge	AA	LIM	NE	all	57,384	45.6	50.5	3.2	0.0	0.3	0.3	100.0
36	Scallop Dredge	OPEN	LIM	MA	all	44,278	53.3	29.3	12.2	5.2	0.0	0.0	100.0
37	Scallop Dredge	OPEN	LIM	NE	all	231,445	62.9	22.2	14.7	0.0	0.2	0.0	100.0
23 Other fleets filtered out						77,264	13.5	24.9	58.5	2.5	0.4	0.2	100.0

**Appendix Table 3B, continued. Estimated discards (live pounds) and percentage by discard reason category for the 23 individual species that comprise the 14 species groups for July 2011 through June 2012.**

*Species Group: OFFSHORE HAKE*

						Discard by Reason Category [%]							
Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Discarded	No Market	Regulation (Size)	Regulation (Quota)	Regulation (Other)	Poor Quality	Other	Total %
5	Otter Trawl	OPEN	all	MA	sm	14,840	92.3	0.0	0.0	0.0	7.7	0.0	100.0
8	Otter Trawl	OPEN	all	NE	lg	649	73.3	0.0	21.6	0.0	5.0	0.0	100.0
28 Other fleets filtered out						554	96.2	0.0	3.8	0.0	0.0	0.0	100.0

*Species Group: RED HAKE*

						Discard by Reason Category [%]							
Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Discarded	No Market	Regulation (Size)	Regulation (Quota)	Regulation (Other)	Poor Quality	Other	Total %
5	Otter Trawl	OPEN	all	MA	sm	1,203,283	100.0	0.0	0.0	0.0	0.0	0.0	100.0
7	Otter Trawl	OPEN	all	NE	sm	983,550	99.8	0.0	0.1	0.0	0.1	0.0	100.0
8	Otter Trawl	OPEN	all	NE	lg	120,070	94.5	0.7	4.3	0.0	0.4	0.0	100.0
33	Scallop Dredge	AA	LIM	NE	all	85,800	100.0	0.0	0.0	0.0	0.0	0.0	100.0
37	Scallop Dredge	OPEN	LIM	NE	all	95,988	99.8	0.0	0.2	0.0	0.0	0.0	100.0
25 Other fleets filtered out						108,107	96.9	0.1	2.7	0.0	0.2	0.0	100.0

*Species Group: SILVER HAKE*

						Discard by Reason Category [%]							
Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Discarded	No Market	Regulation (Size)	Regulation (Quota)	Regulation (Other)	Poor Quality	Other	Total %
5	Otter Trawl	OPEN	all	MA	sm	921,174	88.1	5.5	0.0	0.0	6.4	0.0	100.0
7	Otter Trawl	OPEN	all	NE	sm	2,270,446	75.3	0.0	4.7	1.0	10.1	8.8	100.0
19	Shrimp Trawl	OPEN	all	NE	all	256,922	85.8	0.0	14.2	0.0	0.0	0.0	100.0
27 Other fleets filtered out						304,732	92.4	0.3	5.7	0.0	1.6	0.0	100.0

*Species Group: ATLANTIC MACKEREL*

						Discard by Reason Category [%]							
Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Discarded	No Market	Regulation (Size)	Regulation (Quota)	Regulation (Other)	Poor Quality	Other	Total %
30 Other fleets filtered out						63,326	87.8	0.0	4.9	0.0	7.2	0.1	100.0

**Appendix Table 3B, continued. Estimated discards (live pounds) and percentage by discard reason category for the 23 individual species that comprise the 14 species groups for July 2011 through June 2012.**

*Species Group: BUTTERFISH*

						Discard by Reason Category [%]							
Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Discarded	No Market	Regulation (Size)	Regulation (Quota)	Regulation (Other)	Poor Quality	Other	Total %
5	Otter Trawl	OPEN	all	MA	sm	2,248,786	52.9	0.8	43.5	2.8	0.0	0.0	100.0
7	Otter Trawl	OPEN	all	NE	sm	1,560,218	78.8	0.1	20.6	0.0	0.0	0.5	100.0
28 Other fleets filtered out						47,462	94.0	0.4	5.4	0.1	0.1	0.0	100.0

*Species Group: ILLEX SQUID*

						Discard by Reason Category [%]							
Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Discarded	No Market	Regulation (Size)	Regulation (Quota)	Regulation (Other)	Poor Quality	Other	Total %
30 Other fleets filtered out						451,692	79.0	0.0	5.2	0.0	5.7	10.2	100.0

*Species Group: LOLIGO SQUID*

						Discard by Reason Category [%]							
Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Discarded	No Market	Regulation (Size)	Regulation (Quota)	Regulation (Other)	Poor Quality	Other	Total %
5	Otter Trawl	OPEN	all	MA	sm	642,047	84.4	0.5	0.2	0.0	1.3	13.6	100.0
29 Other fleets filtered out						299,320	86.0	0.3	2.0	0.0	11.6	0.1	100.0

**Appendix Table 4. Fleet abbreviations used in Table 7 and Figures 1A, 1B, and 3. Fleets that were filtered out through the importance filter and fleets designated as in need of pilot coverage have been aggregated into “Other fleets.”**

Row	Gear Type	Access Area	Trip Category	Region	Mesh Group	Fleet Abbreviation
1	Longline	OPEN	all	MA	all	LL MA
2	Longline	OPEN	all	NE	all	LL NE
3	Hand Line	OPEN	all	MA	all	HND MA
4	Hand Line	OPEN	all	NE	all	HND NE
5	Otter Trawl	OPEN	all	MA	sm	OT sm MA
6	Otter Trawl	OPEN	all	MA	lg	OT lg MA
7	Otter Trawl	OPEN	all	NE	sm	OT sm NE
8	Otter Trawl	OPEN	all	NE	lg	OT lg NE
9	Scallop Trawl	AA	GEN	MA	all	SCT AA GEN MA
10	Scallop Trawl	AA	LIM	MA	all	SCT AA LIM MA
11	Scallop Trawl	OPEN	GEN	MA	all	SCT OPEN GEN MA
12	Scallop Trawl	OPEN	LIM	MA	all	SCT OPEN LIM MA
13	Otter Trawl, Ruhle	OPEN	all	MA	lg	OTR lg MA
14	Otter Trawl, Ruhle	OPEN	all	NE	sm	OTR sm NE
15	Otter Trawl, Ruhle	OPEN	all	NE	lg	OTR lg NE
16	Otter Trawl, Haddock Separator	OPEN	all	MA	lg	OTH lg MA
17	Otter Trawl, Haddock Separator	OPEN	all	NE	lg	OTH lg NE
18	Shrimp Trawl	OPEN	all	MA	all	SHT MA
19	Shrimp Trawl	OPEN	all	NE	all	SHT NE
20	Floating Trap	OPEN	all	MA	all	FT MA
21	Floating Trap	OPEN	all	NE	all	FT NE
22	Sink, Anchor, Drift Gillnet	OPEN	all	MA	sm	GN sm MA
23	Sink, Anchor, Drift Gillnet	OPEN	all	MA	lg	GN lg MA
24	Sink, Anchor, Drift Gillnet	OPEN	all	MA	xlg	GN xlg MA
25	Sink, Anchor, Drift Gillnet	OPEN	all	NE	sm	GN sm NE
26	Sink, Anchor, Drift Gillnet	OPEN	all	NE	lg	GN lg NE
27	Sink, Anchor, Drift Gillnet	OPEN	all	NE	xlg	GN xlg NE
28	Purse Seine	OPEN	all	MA	all	PS MA
29	Purse Seine	OPEN	all	NE	all	PS NE
30	Scallop Dredge	AA	GEN	MA	all	SCD AA GEN MA
31	Scallop Dredge	AA	GEN	NE	all	SCD AA GEN NE
32	Scallop Dredge	AA	LIM	MA	all	SCD AA LIM MA
33	Scallop Dredge	AA	LIM	NE	all	SCD AA LIM NE
34	Scallop Dredge	OPEN	GEN	MA	all	SCD OPEN GEN MA
35	Scallop Dredge	OPEN	GEN	NE	all	SCD OPEN GEN NE
36	Scallop Dredge	OPEN	LIM	MA	all	SCD OPEN LIM MA
37	Scallop Dredge	OPEN	LIM	NE	all	SCD OPEN LIM NE
38+	Danish Seine	OPEN	all	NE	all	DS OPEN NE
39	Mid-water Paired & Single Trawl	OPEN	all	MA	all	MWT MA
40	Mid-water Paired & Single Trawl	OPEN	all	NE	all	MWT NE
41	Pots and Traps, Fish	OPEN	all	MA	all	FPT MA
42	Pots and Traps, Fish	OPEN	all	NE	all	FPT NE
43	Pots and Traps, Conch	OPEN	all	MA	all	CPT MA
44	Pots and Traps, Conch	OPEN	all	NE	all	CPT NE
45	Pots and Traps, Hagfish	OPEN	all	MA	all	HPT MA
46	Pots and Traps, Hagfish	OPEN	all	NE	all	HPT NE
47	Pots and Traps, Shrimp	OPEN	all	NE	all	SPT NE
48	Pots and Traps, Lobster	OPEN	all	MA	all	LPT MA
49	Pots and Traps, Lobster	OPEN	all	NE	all	LPT NE
50	Pots and Traps, Crab	OPEN	all	MA	all	CRPT MA
51	Pots and Traps, Crab	OPEN	all	NE	all	CRPT NE
52	Beam Trawl	OPEN	all	MA	all	BT MA
53	Beam Trawl	OPEN	all	NE	all	BT NE
54	Dredge, Other	OPEN	all	MA	all	DRO MA
55	Ocean Quahog/Surfclam Dredge	OPEN	all	MA	all	CD MA
56	Ocean Quahog/Surfclam Dredge	OPEN	all	NE	all	CD NE
	Other fleets filtered out					Other Fleets

# **Procedures for Issuing Manuscripts in the *Northeast Fisheries Science Center Reference Document (CRD) Series***

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All manuscripts submitted for issuance as CRDs must have cleared the NEFSC's manuscript/abstract/webpage review process. If any author is not a federal employee, he/she will be required to sign an "NEFSC Release-of-Copyright Form." If your manuscript includes material from another work which has been copyrighted, then you will need to work with the NEFSC's Editorial Office to arrange for permission to use that material by securing release signatures on the "NEFSC Use-of-Copyrighted-Work Permission Form."

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## **Publications and Reports of the Northeast Fisheries Science Center**

The mission of NOAA's National Marine Fisheries Service (NMFS) is "stewardship of living marine resources for the benefit of the nation through their science-based conservation and management and promotion of the health of their environment." As the research arm of the NMFS's Northeast Region, the Northeast Fisheries Science Center (NEFSC) supports the NMFS mission by "conducting ecosystem-based research and assessments of living marine resources, with a focus on the Northeast Shelf, to promote the recovery and long-term sustainability of these resources and to generate social and economic opportunities and benefits from their use." Results of NEFSC research are largely reported in primary scientific media (*e.g.*, anonymously-peer-reviewed scientific journals). However, to assist itself in providing data, information, and advice to its constituents, the NEFSC occasionally releases its results in its own media. Currently, there are three such media:

*NOAA Technical Memorandum NMFS-NE* -- This series is issued irregularly. The series typically includes: data reports of long-term field or lab studies of important species or habitats; synthesis reports for important species or habitats; annual reports of overall assessment or monitoring programs; manuals describing program-wide surveying or experimental techniques; literature surveys of important species or habitat topics; proceedings and collected papers of scientific meetings; and indexed and/or annotated bibliographies. All issues receive internal scientific review and most issues receive technical and copy editing.

*Northeast Fisheries Science Center Reference Document* -- This series is issued irregularly. The series typically includes: data reports on field and lab studies; progress reports on experiments, monitoring, and assessments; background papers for, collected abstracts of, and/or summary reports of scientific meetings; and simple bibliographies. Issues receive internal scientific review and most issues receive copy editing.

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