



TECHNICAL DOCUMENTATION
FOR THE VERTICAL LINE
ANALYSIS MODEL

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APPENDIX A: DATASETS INCLUDED IN THE NARWC SPUE DATA

1. INTRODUCTION

BACKGROUND

Commercial fishing gear has historically posed a risk of entanglement to a wide variety of marine life. In the western North Atlantic, the risk is especially acute for four populations of large whales: the western North Atlantic stock of right whales; the Gulf of Maine stock of humpback whales; the western North Atlantic stock of fin whales; and the Canadian eastern coastal stock of minke whales. The effects of entanglement can range from no permanent injury to serious injury or death.

Right whales, humpback whales, and fin whales are listed as endangered species under the Endangered Species Act (ESA). Pursuant to the ESA and the Marine Mammal Protection Act (MMPA), the National Marine Fisheries Service (NMFS) – with guidance from the Atlantic Large Whale Take Reduction Team (ALWTRT) – is responsible for the development and implementation of the Atlantic Large Whale Take Reduction Plan (ALWTRP). The plan seeks to reduce the risks of entanglement through a set of gear modifications and other requirements that affect commercial fishing vessels operating in Atlantic waters.

A continuing concern in the evolution of the ALWTRP is the risk of entanglement in vertical line; i.e., buoy lines associated with lobster trap/pot gear, other trap/pot gear, or gillnet gear. To better understand these risks and the potential impact of additional management measures designed to address them, NMFS requires information on the amount of vertical line used by various fisheries, as well as trends in the use of such line. This information will provide a foundation for the development of NMFS' vertical line strategy.

THE VERTICAL LINE ANALYSIS MODEL

The Vertical Line Analysis Model is designed to assist NMFS in formulating its vertical line strategy. The model, which has been developed by Industrial Economics, Incorporated (IEc), provides information that will help NMFS address the following types of questions:

- Where do the fisheries that are subject to the requirements of the ALWTRP operate?
- Where are concentrations of fishing line the greatest?
- Do whales frequent areas with high concentrations of fishing line?

The current version of the model contains information on a wide range of fixed gear fisheries, including a number of gillnet fisheries, the American lobster fishery, the blue crab fishery, and other trap/pot fisheries. Through the integration of information on fishing activity and gear configurations, the model analyzes geographic and temporal variations in fishing effort and the distribution of fishing line in waters subject to the ALWTRP. The model also incorporates information on whale sightings and identifies areas and times at which whales and commercial fishing gear are likely to co-occur. The final product is a set of indicators of relative entanglement risks at various locations and at different points in time. These indicators can be displayed in a variety of formats, including charts, tables, maps, and animations.

2. SCOPE OF THE MODEL

SOFTWARE

The Vertical Line Analysis Model resides on a combined platform of Microsoft Access 2003 and ESRI ArcGIS Desktop Version 10.0. Microsoft Access provides the user an interface with the model and supports efficient storage, retrieval, and analysis of the large datasets used to characterize fishing activity. ArcGIS enables spatial analysis and provides outputs in map form. The model also produces map images that can be imported into Microsoft PowerPoint to create animations demonstrating changes in indicators over time.

GEOGRAPHIC AND TEMPORAL SCOPE

The model analyzes all the commercial fisheries subject to the ALWTRP, including those operating in the Northeast Atlantic, Mid-Atlantic, and Southeast Atlantic. The geographic range of the model mirrors that of the ALWTRP: it extends from downeast Maine (at the Canadian border) to southeast Florida (at 26 degrees 46.5 minutes N latitude), and includes all Atlantic waters within the limits of the EEZ.¹

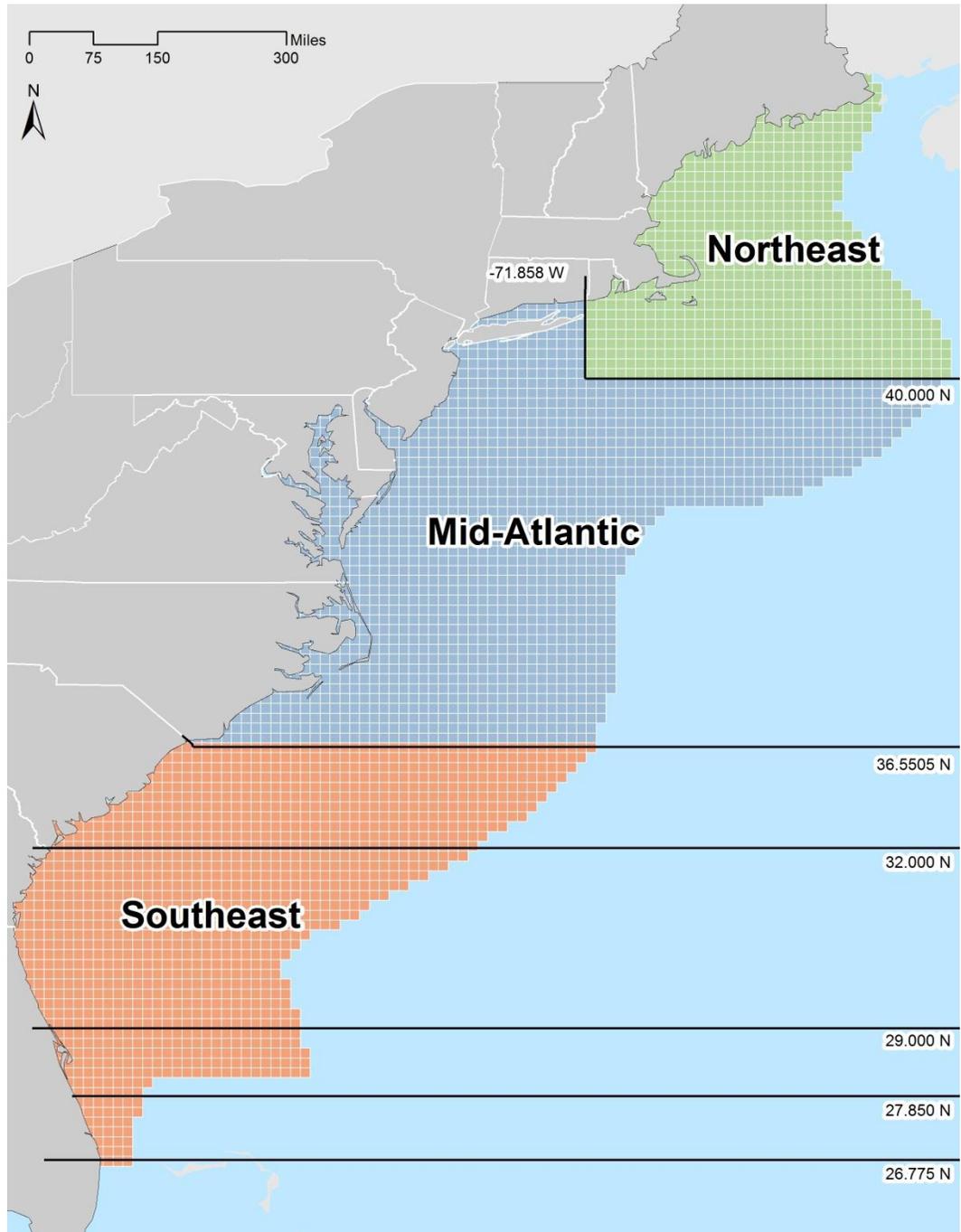
To ensure that data on fishing activity, gear configurations, and whale sightings can be integrated, the model analyzes information on a common spatial grid, with consistent positioning and resolution (i.e., cell size). It employs two spatial grids for analysis. The model analyses fishing activity and gear distribution on a one-minute grid. This allows the model to delineate activity within relatively small fishing areas, such as state fishing zones. For mapping purposes, fishing activity and gear distribution are aggregated to a standardized ten-minute grid, which matches the grid cell size used to develop the effort-adjusted whale sightings data. Likewise, the co-occurrence indicator is presented at the ten-minute grid cell level. Exhibit 1 illustrates the geographic scope of the model, displayed on a 10-minute grid.

The model incorporates data on fishing activity in Federal waters from 2000 to 2010.² This range represents the most recent period for which data on commercial fishing activity are available. Because states have differing data collection programs that have evolved over time, the availability of data characterizing fishing in state waters varies by state. At minimum, the model incorporates state data that characterizes vessel activity over the past three years (i.e., 2008 to 2010); many states have provided data from prior years. Section 4 describes the data provided by each state in greater detail.

¹ The model's geographic range includes certain inshore waters currently exempted from the requirements of the ALWTRP.

² 2010 Northeast Vessel Trip Report (VTR) data are currently under review; therefore, the current version of the model (January 2011) uses 2009 data to characterize recent vessel activity in Northeast and Mid-Atlantic Federal waters.

EXHIBIT 1. GEOGRAPHIC SCOPE OF THE VERTICAL LINE ANALYSIS MODEL



COMMERCIAL FISHERIES

To account for differences in fishing practices and to allow for more detailed analysis of results, the model treats the lobster, gillnet, blue crab (south of the Delaware/New Jersey border), and other trap/pot fisheries as distinct groups. For each group, IEc collected spatially explicit data on fishing activity and the configuration of gear employed by fishing vessels. Exhibit 2 summarizes the fisheries considered in the model.

EXHIBIT 2. FISHERIES ANALYZED IN THE VERTICAL LINE ANALYSIS MODEL

GROUP	CORRESPONDING ALWTRP FISHERY	PERIOD OF ACTIVITY
Lobster	Northeast/Mid-Atlantic American lobster trap/pot	Year-round
Gillnet	Northeast sink and anchored float gillnet fisheries	Year-round
	Mid-Atlantic gillnet fishery	Year-round
	Southeast sink and anchored gillnet fisheries	Varies
Blue Crab	Mid-Atlantic/Southeast blue crab fishery (included in the Atlantic other trap/pot fishery)	Varies
Other trap/pot	Atlantic other trap/pot fishery	Varies
Note: The model currently excludes Northeast drift gillnet vessels. Source: Department of Commerce, National Oceanic and Atmospheric Administration. January 2010. <i>Guide To The Atlantic Large Whale Take Reduction Plan</i> . Available at http://www.nero.noaa.gov/whaletrp/ .		

WHALE SIGHTINGS

At a variety of locations and times across the Atlantic seaboard, researchers have conducted shipboard and aerial surveys to characterize the seasonal distribution of right whales, humpback whales, and fin whales off the Atlantic coast. The North Atlantic Right Whale Consortium (NARWC) provided IEc with an amalgamated dataset derived from these efforts. These data are adjusted for the level of effort employed to locate the whales from the air and sea, providing an indication of sightings per unit of survey effort (SPUE). Appendix A lists all datasets included in the NARWC SPUE dataset that are currently employed in the model.

In addition to maps of NARWC's effort-adjusted whale sightings information, the model allows users to access monthly displays of aggregated whale sightings data from the North American Right Whale Consortium (NARWC) Sightings database. This database draws on reports of sightings from a wide variety of contributors. *Raw sightings data from the NARWC database are strictly observational; they are not effort-adjusted and the*

management documents in which they are used are not peer-reviewed. Distributional patterns based on these data are likely to be biased by where, and when, surveys were conducted. We include the raw NARWC sightings data for reference only.

INDICATORS OF FISHING ACTIVITY AND POTENTIAL RISK OF ENTANGLEMENT

The model generates four indicators to describe fishing activity and the potential risk of interactions between large whales and fishing gear.

- **Number of Active Vessels:** Using Federal and state data sources, the model estimates the number of commercial fishing vessels that participate in each fishery. Depending on the location and fishery, the model employs a variety of methods to estimate the number of active vessels.
- **Number of Vertical Lines:** Based on the number of active vessels and data on typical gear configurations (e.g., the number of vertical lines employed per vessel), the model estimates the number of vertical lines employed by each fishery.
- **Length of Groundlines:** Using similar information, the model can estimate the total length of groundline (i.e., fishing line linking traps to traps and/or traps and gillnets to anchors) in the water.
- **Whale Sightings and Vertical Line Co-Occurrence Indicator:** As a measure of the relative risk of whale entanglement in commercial fishing line, the model combines effort-adjusted whale sightings information with estimates of the number of vertical lines in the water at a particular location and time. The co-occurrence indicator can be generated for each individual whale species (Right, Humpback, and Fin) or for any combination of the three.

Section 3 provides an overview of the methods employed to produce these indicators. Section 4 provides descriptions of the specific methods and data sources used to develop estimates of the number of active vessels and vertical lines in individual areas.

3. OVERVIEW OF METHODS

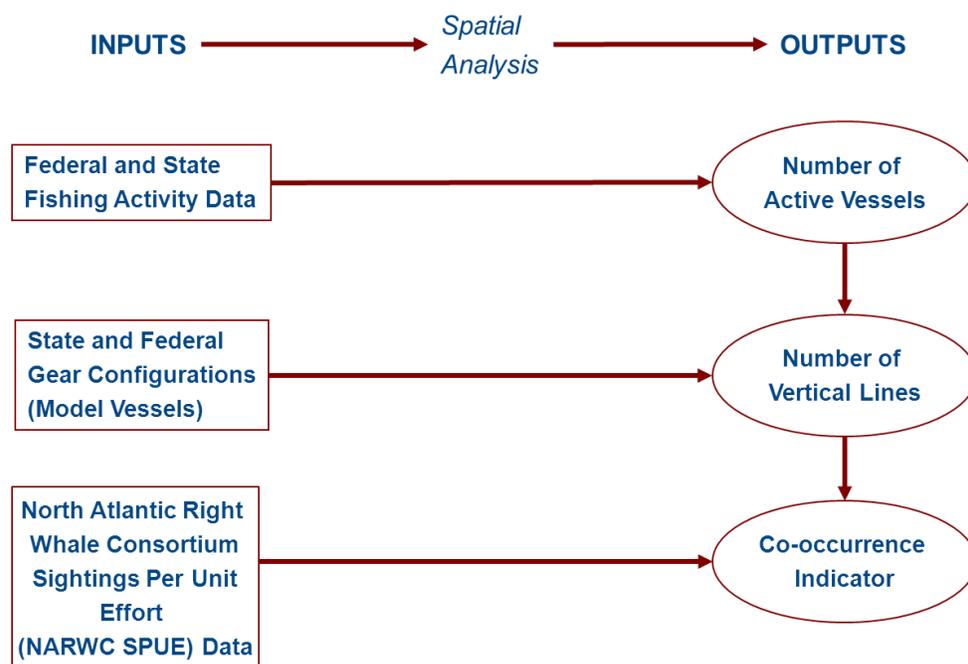
INTRODUCTION

This section presents a general overview of the Vertical Line Analysis Model and the calculations used to estimate the indicators discussed in Section 2. It also briefly describes the model’s scenario building and reporting capabilities.

CONCEPTUAL OVERVIEW

Exhibit 3 presents a conceptual representation of the Vertical Line Analysis Model. The model develops spatially explicit monthly estimates of each indicator. Using Federal and state data describing fishing effort and location, the model first estimates the number of vessels operating in each grid cell each month. The model then combines the number of active fishing vessels and information on vessel gear configurations to generate monthly estimates of the number of vertical lines and the length of groundline within each cell. Finally, the model combines the vertical line estimate with the effort-adjusted NARWC whale sightings data to produce the combined whale-vertical line co-occurrence indicator. Below, we detail the general approach used to estimate each indicator.

EXHIBIT 3. CONCEPTUAL DIAGRAM OF THE VERTICAL LINE ANALYSIS MODEL



NUMBER OF ACTIVE VESSELS

Based on GIS layers provided by NMFS and state fisheries administrators, the model assigns each 1-minute grid cell either to a particular state’s jurisdiction or to one of several Federal fishery management zones. Where data permit, grid cells in state waters are assigned to appropriate state management areas (e.g., Massachusetts Department of Marine Fisheries Statistical Reporting Areas) and are demarcated as exempt or non-exempt waters based on their location with respect to the current ALWTRP exemption line. Grid cells in Federal waters are delineated according to the Lobster Management Zones and ALWTRP trap/pot areas, including Northern Nearshore, Southern Nearshore, and Offshore waters.³

Using data on fishing effort from a variety of sources, including the Northeast Vessel Trip Report (VTR) system, NMFS’ Northeast Permit database, the Southeast Logbook, state records, and judgments from NMFS gear experts and state fisheries administrators, IEc has developed area-specific methods to generate monthly estimates of the number of vessels that are active within Federal and state management zones. Section 4 provides additional detail on the management zones and approaches employed.

NUMBER OF VERTICAL LINES AND LENGTH OF GROUNDLINE

Model Vessel Development

Given the broad scope of the ALWTRP, a vessel-by-vessel analysis of fishing gear and location is infeasible. Instead, the model is based upon the development of a set of model vessels, each of which represents a group of vessels that are likely to share similar operating characteristics. As currently configured, the model draws on over 220 individual model vessels to characterize gear use; however, users may add new model vessels via the user-interface. The model’s interface allows users to assign one or more model vessels to a suite of management areas, including:

- Lobster Management Areas (LMAs);
- ALWTRP trap/pot areas;
- State waters (exempt and non-exempt);
- State management areas (where available); and
- Special management areas, including Stellwagen Bank/Jefferys Ledge, the Great South Channel Restricted Area, the Cape Cod Bay Restricted Area, and areas that the ALWTRP formerly designated as Seasonal Area Management (SAM) zones.

³ Grid cells that overlap two or more management zones are assigned to the zone that accounts for the greatest share of the cell’s total area.

Lobster, Blue Crab, and Other Trap/Pot Model Vessel Calculations

For each lobster, blue crab, or other trap/pot model vessel, the model allows the user to specify the following gear configuration parameters:

- Total Traps Fished;
- Number of Traps per Trawl;
- Number of Endlines (i.e., buoy lines) per Trawl;
- Length of Groundline between Traps (in feet);
- Number of Anchors per Trawl; and
- Length of Anchor Lines (in feet).

Using these inputs, the model employs the equations specified in Exhibit 4 to calculate the number of vertical lines and length of groundline associated with each model vessel.

EXHIBIT 4. GEAR USED BY LOBSTER, BLUE CRAB, AND OTHER TRAP/POT VESSELS

$$\begin{aligned}
 \text{Number of Vertical Lines} &= \frac{\text{Total Traps Fished}}{\text{Traps per Trawl}} \times \text{Endlines per Trawl} \\
 \text{Length of Groundline} &= \frac{\text{Total Traps Fished}}{\text{Traps per Trawl}} \times \left[\left((\text{Traps per Trawl} - 1) \times \frac{\text{Length of Groundline between Traps}}{\text{Length of Groundline between Traps}} \right) + \left(\frac{\text{Anchors per Trawl}}{\text{Traps per Trawl}} \times \frac{\text{Length of Anchor Lines}}{\text{Length of Anchor Lines}} \right) \right]
 \end{aligned}$$

Gillnet Model Vessel Calculations

For each gillnet model vessel, the model allows the user to specify the following gear configuration parameters:⁴

- Total Strings Fished;
- Endlines per String;
- Number of Anchors per String; and
- Length of Anchor Lines.

Using these inputs, the model employs the equations specified in Exhibit 5 to calculate the number of vertical lines and length of groundline associated with each model vessel.

⁴ For use in potential revisions to the model, IEc also collected information on the number of net panels per string, the height and length of the net panels, and the length of the line between the net panels. Currently, these values are not used in the calculations described above.

EXHIBIT 5. GEAR USED BY GILLNET VESSELS

$$\begin{aligned} \text{Number of Vertical Lines} &= \text{Total Strings Fished} \times \text{Endlines Per String} \\ \text{Length of Groundline} &= \text{Total Strings Fished} \times \text{Anchors Per String} \times \text{Length of Anchor Lines} \end{aligned}$$

Seasonal Variation

To account for seasonal variation in the number of traps or strings fished per vessel, each model vessel is also characterized by monthly scalars. For the month in which the model vessel is assumed to fish the highest number of traps or strings, the monthly scalar is set to one. The monthly scalar for the other months of the year is indexed as a percentage of the peak month. For example, consider a case in which the highest number of traps fished by a hypothetical model vessel occurs in September, with 500 traps fished per vessel. In March, when fishermen typically fish fewer traps, only 200 traps are fished per vessel. In this case, the monthly scalar for March would be 0.4 [= 200 / 500].

Indicator Development*Number of Vertical Lines*

To estimate the total number of vertical lines in the water, the model considers each fishery group (i.e., lobster, gillnet, blue crab, other trap/pot) independently. Users have the option to view results for each group separately or as the sum of all four groups. For each group, the model first estimates the average number of vertical lines per grid cell based on the model vessels assigned to that grid cell, adjusted by their monthly scalars. Where data permit (see Section 4 below for more detail), several model vessels may be assigned to the same grid cell. In these cases, each model vessel represents the percentage of vessels within the grid cell that operate with its particular configuration. This effectively allows for the development of weighted average estimates for the number of vertical lines in a given grid cell. We present two example calculations below:

- **Example 1 – Assignment of One Model Vessel:** Activity within a particular 1-minute grid cell is represented solely by Model Vessel A. The maximum number of vertical lines deployed by this model vessel in any month is 200. To characterize activity in August, the model assigns a monthly gear scalar of 0.75; thus, in August, Model Vessel A is assumed to deploy 150 vertical lines. If 2 vessels are active within this area in August, then the estimated number of vertical lines within the cell for that month would be 300.
- **Example 2 – Assignment of Multiple Model Vessels:** Activity within a 1-minute grid cell is represented by model vessels A, B, and C. The maximum number of vertical lines deployed by these model vessels is 200, 100, and 80, respectively. For August, the model assigns these vessels monthly gear scalars of 0.75, 0.8, and 0.5, yielding a vertical line estimate of 150, 80, and 40, respectively. In turn, the model assigns the percentage of vessels fishing with each configuration as 50 percent, 30 percent, and 20 percent, respectively. For

this grid cell, the model would estimate a weighted average of 107 vertical lines per vessel ($[150 * 0.5] + [80 * 0.3] + [40 * 0.2]$).

Length of Groundline

To estimate the total length of groundline in the water, the model employs the same approach described above for vertical lines, but uses the length of groundline estimates developed for each model vessel.

COMBINED WHALE SIGHTINGS AND VERTICAL LINE INDICATOR

As an indicator of the relative risk of whale entanglement in commercial fishing line, the model combines effort-adjusted whale sightings information provided by NARWC with estimates of the number of vertical lines in the water at a particular location and time.⁵ To facilitate presentation and interpretation of the combined risk indicator, the underlying vertical line and whale sightings measures are indexed on a scale from 0 to 1,000.⁶ For each grid cell, the indexed values are then multiplied to generate a combined indicator score, which may range in value from zero to 1 million.⁷ Based on the grid cell size used to develop the effort-corrected whale sightings data, the combined indicator is presented at the ten-minute grid cell level.

It is important to note that this combined value, like the other measures the model provides, is simply one indicator of the relative risk of potential interaction between whales and commercial fishing gear. It should not be construed as an absolute or cardinal measure. The development of such measures would require a detailed understanding of many factors beyond the model's current scope.

SCENARIO GENERATION

The model allows users to test for the impact of different management scenarios on the four indicators described above. Users may develop scenarios that employ one or more of the following actions:

- **Gear configuration requirements.** The user can develop scenarios that impose specific gear configuration requirements, such as establishing restrictions on the number of traps per trawl allowed in a given area. For example, in an area that currently allows fishermen to employ singles, users could develop a scenario that requires a minimum of three traps per trawl. In this case, the model would increase the number of traps per trawl for those model vessels fishing singles and doubles to three traps per trawl. This action would reduce the number of vertical lines in that area.

⁵ The vertical line component of the combined indicator reflects the sum of the number of vertical lines estimated for each fishery group (i.e., lobster, gillnet, blue crab, and other trap/pot).

⁶ Specifically, for each measure, the highest value identified across all months and grid cells is set to 1,000. Other grid cell values are then indexed to the scale by dividing by the highest value and multiplying by 1,000.

⁷ As stated above, users may view monthly maps of the NARWC's effort-corrected whale sightings information. This information is indexed to a 0 to 1,000 scale.

- **Redistribute fishing effort.** The user may wish to develop scenarios that call for an increase or decrease in fishing effort in an area. The model allows for the user to specify, as a percentage of baseline effort, the magnitude of this change. For example, the user may wish to test the impact of a closure on a particular area. In this case, the model will eliminate all fishing effort within the selected area. Users have the option to redistribute this effort to nearby areas if desired.

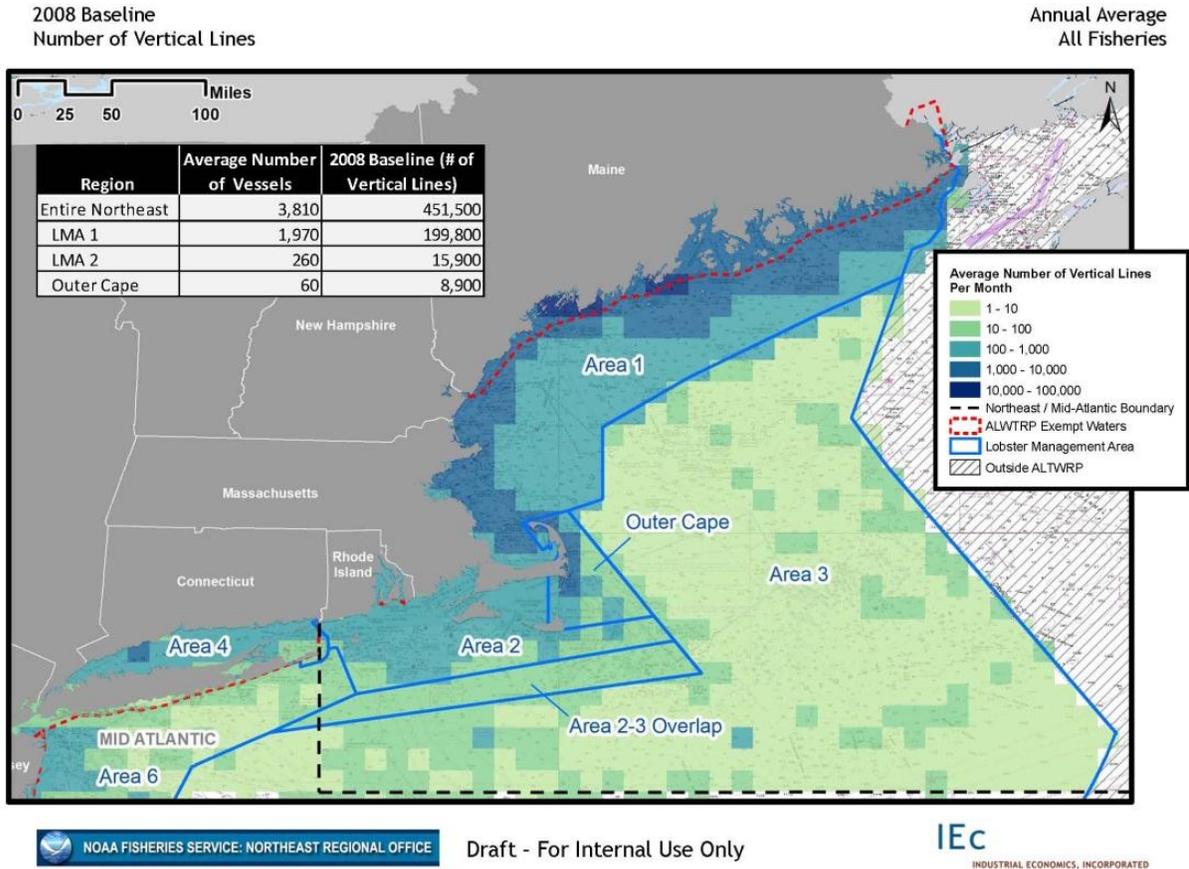
REPORTING TOOLS

The user interface provides the capability for users to explore both baseline conditions and the implications of different management scenarios for each of the four indicators available in the model. Results are available as:

- **Maps.** Users can produce a map of a specific month and indicator or the average value across specified months. In addition, users can develop maps that show the change in an indicator value associated with a particular management measure (e.g., a reduction in vertical lines). Exhibit 6, below, provides an illustration of a map of the Northeast displaying the (monthly) average number of vertical lines for 2008.
- **Tables and charts.** The model's reporting tools give users the ability to empirically analyze results through the production of tables and charts. The model contains basic charting capabilities, but also allows for export to MS Excel for the development of more complicated analyses.⁸
- **Animations.** Users can export monthly or seasonal maps to create PowerPoint animations. These animations can be used to visually display changes across months (or seasons) or between the baseline and alternative management scenarios.

⁸ In addition to the four model indicators, users can generate estimates of the number vessels affected by a particular scenario; i.e., vessels that change their gear configurations or relocate/eliminate their fishing effort.

EXHIBIT 6. EXAMPLE MAP - NUMBER OF VERTICAL LINES (AVERAGE 2008 / ALL FISHERIES)



4. LOCATION-SPECIFIC METHODS AND DATA SOURCES

FEDERAL WATERS

Number of Active Vessels

To determine the number of active vessels operating within Federal waters, the model relies on NMFS' Northeast Vessel Trip Report (VTR) system and the Southeast Logbook. VTR covers Federal waters north of Cape Hatteras, North Carolina. Most commercial fishing permits administered by NMFS' Northeast Regional Office (NERO) require fishermen to file a VTR at the conclusion of every trip.⁹ VTR provides data on the gear the vessel employed and the area in which it fished, along with other information. Specifically, fishermen provide longitude and latitude coordinates that represent their average location for each fishing trip. The Southeast Logbook, which covers federal waters south of Cape Hatteras, North Carolina, similarly requires trip-level reporting; however, fishermen are required to identify the location of their fishing effort on a 1-degree grid, as opposed to a specific location.

Through spatial analysis of the VTR and Logbook data, the model assigns trips to the spatial grid that the user specifies, creating a series of monthly datasets for each fishery (i.e., lobster, blue crab, other trap/pot, and gillnet). For each vessel, the model then apportions activity based on the ratio of trips reported within a particular grid cell to the total number of trips taken within the month. For example, consider a vessel that reports 10 trips during the course of a month, seven within Cell A and three within Cell B. The model apportions this vessel's activity for the month by assigning 0.7 active vessels to Cell A and 0.3 active vessels to Cell B. In the final step, the model sums the apportioned activity from all vessels within each grid cell. Below, we detail the additional data, processing steps, and caveats specific to the model's characterization of each of the four fisheries.

Lobster

A Federal lobster permit gives a vessel the right to fish in the Lobster Management Area(s) (LMA) the permit specifies. Unlike other permits administered by NERO, however, Federal lobster permits currently impose no trip report requirements. As a result, the VTR database typically does not contain information on the activity of vessels that hold a Federal lobster permit but no other Federal permit. Information on the location of trips taken by vessels that hold Federal lobster permits is limited to those that also hold

⁹ Technically, the regulations require fishermen to submit separate reports for each statistical area and type of gear fished. In practice, many fishermen compile all information for a single trip on one form.

permits for other fisheries that impose VTR requirements; these vessels must report all fishing activity to NERO.

To identify vessels that hold only a lobster permit and are not required to submit VTRs, the model relies on NMFS' Northeast Permit Database. For each LMA, the model compares VTR and permit data to identify vessels that are permitted only for the lobster fishery and thus not subject to VTR requirements. Because some fishermen maintain a Federal permit but do not actively fish, the model estimates the number of such vessels that are active within the LMA by scaling the total number of permitted vessels by the proportion of other permitted lobster trap/pot vessels (i.e., those vessels required to report to VTR) that actively fished in a given month.¹⁰ In the absence of more detailed information on the location of fishing activity, the model assumes that the activity of these vessels is distributed evenly across the LMA, and apportions activity to each grid cell within the LMA accordingly. For LMA 3, we assume that permitted activity is concentrated north of the divide between LMA 4 and 5; thus, active vessels are only apportioned to this area. Finally, to estimate the total number of vessels active in each grid cell for each month, the model adds the number of active vessels estimated from the permit data to the number obtained from VTR.

Blue Crab

While fishing for blue crab occurs along the entire range of the ALWTRP, analysis of VTR and discussions with state fisheries managers indicate that significant blue crab fishing primarily occurs south of New Jersey. To reflect blue crab's importance in these waters, the model identifies blue crab as a separate fishery (based on VTR and Logbook gear and species codes) in Federal waters south of the New Jersey/Delaware border. Blue crab fishing activity occurring north of this border is characterized as a component of the other/trap pot fishery.

Other Trap/Pot

Within the other trap/pot fishery, commercial fishermen often maintain and use different types of gear to target different species. Thus, the analysis assumes that each vessel maintains separate sets of gear for each species it targets. To provide an accurate characterization of the amount of gear such vessels employ, the model treats multi-purpose trips as separate events. For example, a vessel that targets both black sea bass and hagfish on the same trip is treated as having taken two trips to the same location. The determination of the species targeted is based on VTR and Logbook gear and species codes.

Gillnet

The model identifies gillnet activity based on VTR and Logbook gear codes.

¹⁰ This approach assumes similar behavior between those lobster vessels that report to VTR and those that do not.

Gear Configurations for Model Vessels

To specify model vessels for Federal waters, the spatial grid was delineated into Nearshore and Offshore waters for the Northeast, Mid-Atlantic, and Southeast. Exhibits 7 to 10 show the baseline gear configuration assumptions that the model employs for lobster, blue crab, other trap/pot, and gillnet vessels in these waters. Based on discussions with NMFS gear specialists, the model's default values assume no seasonal adjustments for the number of traps or strings fished in Federal waters.

Lobster

The specification of model vessels for the lobster fishery was developed through consultation with NMFS gear specialists, who provided information based on their own experience and outreach to state agencies. In addition, for Northeast Nearshore waters off the coast of Maine and Massachusetts, information provided by the Maine Department of Marine Resources and Massachusetts Department of Marine Fisheries were employed. See the Maine and Massachusetts profiles (below) for the specific gear configurations developed for these vessels.

Blue Crab

Discussions with state fisheries managers and analysis of Federal activity data indicate that the vast majority of blue crab fishing occurs in state waters or in Nearshore waters close to the state waters' boundaries. This indicates that those fishing for blue crab in Federal waters are likely using gear configurations similar to those used in state waters. To specify model vessels for the blue crab fisheries in Federal waters, the model averages the gear configurations from nearby state waters. Specifically, the Mid-Atlantic blue crab fisheries reflect an average of the blue crab configurations reported for ocean waters within the jurisdiction of Delaware, Maryland, Virginia, or North Carolina. Similarly, the Southeast blue crab fisheries reflect an average of the configurations reported for ocean waters within the jurisdiction of South Carolina, Georgia, or Florida.

Other Trap/Pot

The specification of model vessels for the other trap/pot fishery was developed through consultation with NMFS gear specialists, who provided information based on their own experience and outreach to state agencies. For Northeast Nearshore waters, the suite of model vessels includes those that target black sea bass, hagfish, conch/whelk, scup, and shrimp.¹¹ For Mid-Atlantic and Southeast Nearshore waters, model vessels are specified for the black sea bass, conch/whelk, and scup fisheries. For Offshore waters, the suite of model vessels includes those targeting black sea bass, conch/whelk, hagfish, red crab, and scup.

¹¹ Exhibit 9 also lists model parameters for vessels that target black sea bass, scup, and shrimp in Northeast state waters. These parameters are employed as a default when states are unable to provide more detailed information on the typical configuration of gear in these fisheries.

Gillnet

The specification of model vessels for the gillnet fishery relies on data collected through the Northeast Domestic Fisheries Observer Program, which is operated by NMFS' Northeast Fisheries Science Center (NEFSC). The Observer Program maintains and distributes data on fishing activity off the Northeastern and Mid-Atlantic U.S. for scientific and management purposes. Under the program, trained scientific observers travel aboard commercial fishing vessels to obtain data that are not readily obtainable by other means, focusing in particular on detailed observation of gear rigging and deployment. Using these data, model vessels were developed for the Northeast sink gillnet and Mid-Atlantic gillnet fisheries. The Northeast sink gillnet model vessel is assigned to Northeast Nearshore and Northeast Offshore waters, while the Mid-Atlantic gillnet model vessel is assigned to Mid-Atlantic Nearshore, Mid-Atlantic Offshore, Southeast Nearshore, and Southeast Offshore waters.

EXHIBIT 7. LOBSTER GEAR CONFIGURATION ASSUMPTIONS FOR FEDERAL WATERS

AREA	TOTAL TRAPS FISHED IN MAX. MONTH	TRAPS PER TRAWL	NUMBER OF ENDLINES PER TRAWL	GROUNDLINE BETWEEN TRAPS (FEET)	NUMBER OF ANCHOR LINES PER TRAWL
Northeast Nearshore	700	15	2	105	0
Mid-Atlantic Nearshore	700	15	2	105	0
Offshore	1200	40	2	120	0

EXHIBIT 8. BLUE CRAB GEAR CONFIGURATION ASSUMPTIONS FOR FEDERAL WATERS

AREA	TOTAL TRAPS FISHED IN MAX. MONTH	TRAPS PER TRAWL	NUMBER OF ENDLINES PER TRAWL	GROUNDLINE BETWEEN TRAPS (FEET)	NUMBER OF ANCHOR LINES PER TRAWL
Mid-Atlantic Nearshore and Offshore	126	1	1	0	0
Southeast Nearshore and Offshore	132	1	1	0	0

EXHIBIT 9. OTHER TRAP/POT GEAR CONFIGURATION ASSUMPTIONS FOR FEDERAL WATERS

AREA/FISHERY	TOTAL TRAPS FISHED IN MAX. MONTH	TRAPS PER TRAWL	NUMBER OF ENDLINES PER TRAWL	GROUNDLINE BETWEEN TRAPS (FEET)	NUMBER OF ANCHOR LINES PER TRAWL
Northeast State Waters - Black Sea Bass	50	2	1	60	0
Northeast State Waters - Scup	50	1	1	0	0
Northeast State Waters - Shrimp	100	1	1	0	0
Northeast Nearshore - Scup	50	2	1	60	0
Northeast Nearshore - Black Sea Bass	50	2	1	60	0
Northeast Nearshore - Shrimp	100	2	1	60	0
Northeast Nearshore - Hagfish	500	20	2	150	0
Northeast Nearshore - Conch/Whelk	150	2	1	60	0
Mid-Atlantic and Southeast Nearshore - Black Sea Bass	1100	20	2	90	0
Mid-Atlantic and Southeast Nearshore - Scup	50	1	1	0	0
Mid-Atlantic and Southeast Nearshore - Conch/Whelk	150	1	1	0	0
Offshore - Black Sea Bass	50	1	1	0	0
Offshore - Scup	50	1	1	0	0
Offshore - Hagfish	500	45	2	240	0
Offshore - Conch/Whelk	150	1	1	0	0
Offshore - Red Crab	600	150	2	375	0

EXHIBIT 10. GILLNET GEAR CONFIGURATION ASSUMPTIONS FOR FEDERAL WATERS

AREA	TOTAL NUMBER OF STRINGS FISHED	NET PANELS PER STRING	ENDLINES PER STRING	ANCHORS PER STRING	LENGTH OF ANCHOR LINE (FEET)
Northeast Nearshore and Offshore	3	11	2	2	10
Mid-Atlantic Nearshore and Offshore	3.6	7	2	2	10
Southeast Nearshore and Offshore	3.6	7	2	2	10

STATE WATERS

NMFS has worked directly with state marine resource officials to develop defensible modeling assumptions for vessels fishing exclusively in state waters. Key modeling parameters for lobster, blue crab, and other trap/pot vessels include: (1) the number of vessels active in different months of the year; (2) the total number of traps fished in different areas; and (3) the typical number of traps per trawl. For gillnet vessels, key parameters include: (1) the number of vessels active in different months of the year; and (2) the total number of strings typically fished.

NMFS has focused on obtaining the most recent and highest quality data available for vessels fishing in state waters. Exhibit 11 provides a brief overview of the data. As shown, the model has been updated to incorporate activity data for 2010; many states have submitted data for previous years as well. The exhibit also characterizes information obtained on gear configurations. As shown, gear information sources vary from state to state:

- For some states, key gear configuration parameters are estimated based on reporting data (e.g., logbook data) furnished by fishermen in accordance with state requirements.
- For other states, surveys are the primary source of gear configuration information. In some cases, these surveys are one-time efforts, while others are administered annually (e.g., recall surveys).
- For other states, gear configurations are largely based on the best professional judgment of state fisheries experts.

In several cases, the gear data are taken from a mix of sources (e.g., surveys and best professional judgment). All baseline gear configuration assumptions are based on information from either 2009 or 2010.

The individual state profiles in this section provide detailed descriptions of the data and analysis used to characterize vessels fishing in state waters. NMFS has shared these profiles with the relevant state contact(s) and incorporated their comments as appropriate. We welcome additional input on the methods and data sources applied.

EXHIBIT 11. SUMMARY OF DATA FOR VESSELS THAT FISH EXCLUSIVELY IN STATE WATERS

STATE	YEAR COVERED BY MOST RECENT ACTIVITY DATA	GEAR CONFIGURATION DATA	
		DATA SOURCE	YEAR
ME	2010	Survey	2009
NH	2010	Reporting	2010
MA	2010	Reporting/Survey	2009
RI	2010	Reporting	2010
CT	2010	Reporting	2010
NY	2010	Survey/BPJ	2010
NJ	2010	BPJ	N.A.
DE	2010	Reporting	2010
MD	2010	Reporting/BPJ	2010
VA	2010	Reporting	2010
NC	2010	Survey/BPJ	2009
SC	2010	Reporting	2010
GA	2010	Survey	2009
FL	2010	Reporting	2010

MAINE

The discussion below explains the model’s characterization of the activity and gear associated with lobster vessels fishing in Maine waters.

NUMBER OF ACTIVE VESSELS

To estimate the number of lobster vessels operating exclusively in state waters, we use two categories of data provided by the Maine Department of Marine Resources.¹² First, DMR provided the number of vessels licensed to lobster in each of the state’s seven lobster management zones (Zones A through G). Figure ME-1 depicts the location of these zones. For the years 2008 through 2010, DMR provided a separate analysis of these data that identified vessels that hold a state permit but no Federal permits. Second, DMR provided an analysis of its “100% dealer reporting” data that shows the percentage of these vessels in each zone that were active in each month (see Table ME-1). Active vessels are those that landed at least 100 pounds of lobster. We multiply the number of state-permit-only vessels in each zone by the percent of vessels reported to be active in each month to obtain the number of active vessels by month (see Table ME-2). The model assumes that the activity of these vessels is distributed evenly throughout the state-waters portion of each lobster zone.

GEAR CONFIGURATIONS FOR MODEL VESSELS

To characterize gear configurations, the model vessels rely primarily on DMR’s 2009 Lobster Gear Survey. DMR issued this mail-based survey to all lobstermen holding a Maine lobster permit. The survey requested information on a range of gear parameters, including the number of traps fished, trawl configurations used, endlines per trawl, and other aspects of gear use. Respondents also reported their approximate fishing location, using one or more of 40 areas specified on a map included with the survey. Respondents provided separate information for each month. DMR distributed the survey in February, 2010; therefore, it likely reflects gear configurations and fishing practices from 2009. Approximately 540 lobstermen responded to the survey.

In many state waters, the model estimates the concentration of vertical line based on average gear configuration parameters for a given area. The size and complexity of the lobster fishery in Maine calls for a more advanced analytic approach. Rather than estimate the concentration of vertical line based on a single model vessel designed to represent the average or typical configuration of gear within a particular area, the chosen approach incorporates multiple model vessels for each area – representing the full range of gear configurations currently in use – and specifies the percentage of active vessels within the area to which each configuration applies. The discussion below describes the analysis in greater detail.

¹² In addition to the lobster fishery, DMR indicates that Maine also permits gillnet vessels. However, DMR notes that very few gillnet vessels have been active in recent years. To the extent that gillnet vessels fish exclusively in state waters (and are therefore not reflected in the VTR data), the model may understate total vertical line.

FIGURE ME-1. MAINE LOBSTER ZONES

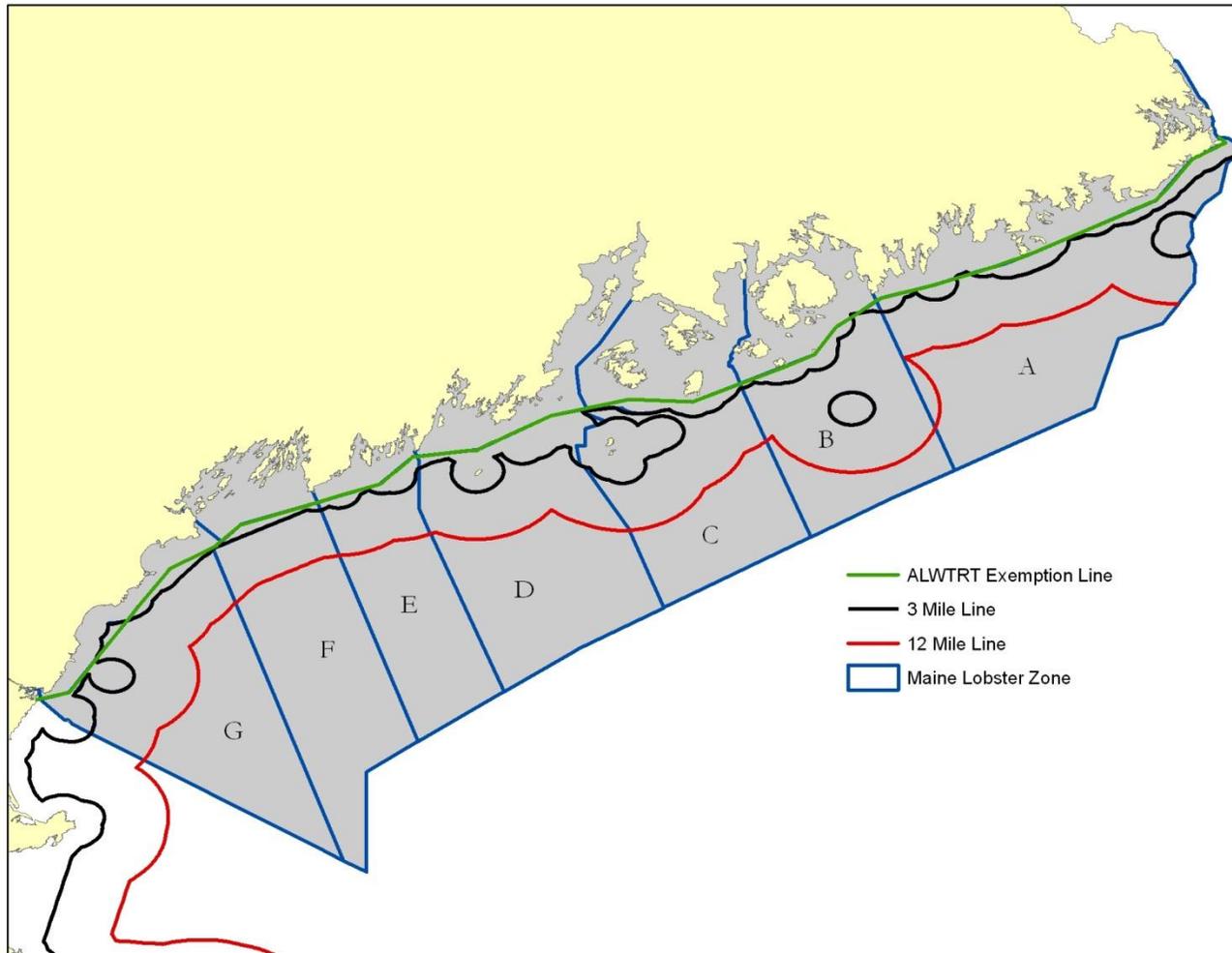


TABLE ME-1. PERCENTAGE OF LOBSTER VESSELS HOLDING ONLY A STATE PERMIT THAT WERE ACTIVE (2010)

MONTH	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONE G
January	5%	10%	17%	16%	19%	9%	15%
February	1%	3%	21%	5%	9%	4%	7%
March	1%	3%	6%	4%	5%	3%	5%
April	7%	11%	14%	11%	8%	4%	10%
May	16%	21%	23%	22%	15%	7%	18%
June	28%	28%	38%	37%	29%	29%	23%
July	52%	55%	61%	55%	48%	47%	34%
August	57%	60%	64%	58%	46%	45%	36%
September	53%	54%	58%	56%	44%	43%	38%
October	43%	46%	51%	52%	39%	38%	31%
November	23%	30%	38%	37%	27%	23%	22%
December	3%	8%	16%	14%	13%	7%	11%

TABLE ME-2. ESTIMATED NUMBER OF ACTIVE LOBSTER VESSELS HOLDING ONLY A STATE PERMIT (2010)

MONTH	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONE G	ALL ZONES
January	41	45	146	165	82	78	50	607
February	8	12	178	53	39	31	23	344
March	9	13	51	42	23	23	18	179
April	62	49	115	112	33	34	34	439
May	142	98	190	216	66	54	58	824
June	245	126	320	367	127	240	76	1,501
July	450	253	512	555	207	388	112	2,477
August	492	274	534	583	201	372	120	2,576
September	458	247	488	559	190	358	127	2,427
October	378	208	428	521	169	309	101	2,114
November	198	139	318	371	116	193	74	1,409
December	27	38	137	139	58	56	36	491

Distributional Approach

The two parameters of primary interest in specifying model vessels for the Maine lobster fishery are the number of traps fished per vessel and the number of traps fished per trawl. To gain a better understanding of these aspects of gear use, we calculated the annual average values for these parameters for each survey respondent, then examined the resulting distribution of values across all respondents.

Figure ME-1 shows the distribution of the average number of traps per trawl fished by the fishermen who provided complete survey responses.¹³ As the figure indicates, the vast majority of the lobstermen who responded to the survey regularly fish singles or doubles; the use of large numbers of traps per trawl is relatively uncommon. The distribution suggests that our categories for specifying model vessels concentrate on shorter trawls. However, Maine DMR and NMFS also recommended additional trap-per-trawl categories that accommodate anticipated “trawl-up” scenarios. Therefore, the analysis uses the following categories for the specification of model vessels: 1, 2, 3, 4, 5-7, 8-9, 10-14, 15-19, and 20+ traps per trawl.

FIGURE ME-1. DISTRIBUTION OF AVERAGE TRAPS PER TRAWL FOR DMR SURVEY RESPONDENTS

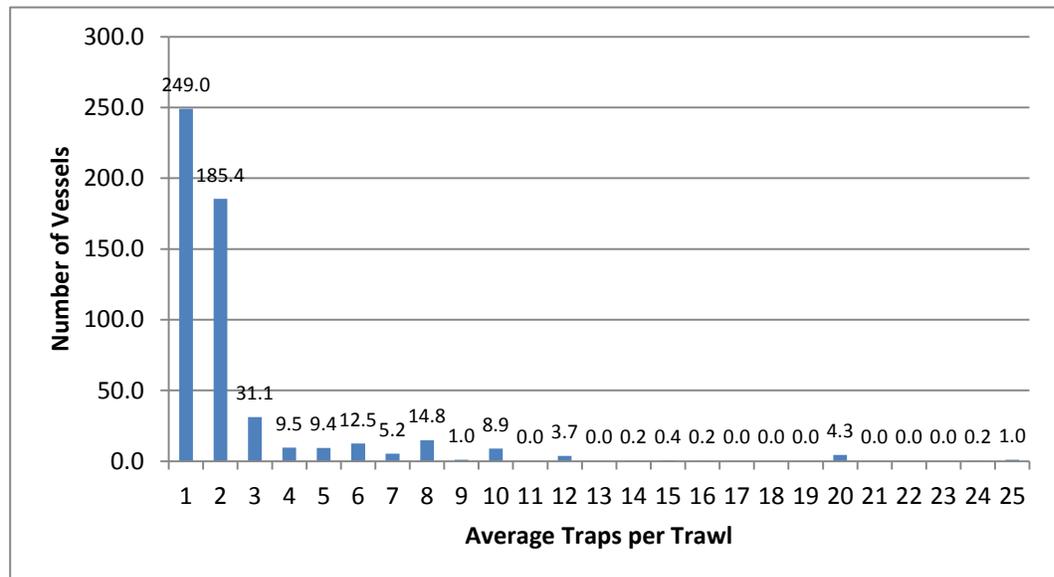


Figure ME-2 shows the distribution of the average number of traps fished by the survey respondents. The distribution is arrayed using increments of 50. As the figure indicates, the distribution is relatively flat, arguing for a simple classification scheme. We use the

¹³ Survey respondents were allowed to specify up to three different gear configurations (i.e., traps per trawl) and the number of traps in each of those configurations. Our analysis recognizes the full suite of gear configurations used by a vessel by allocating a fraction of the vessel to each relevant configuration. For instance, if a vessel fishes 300 traps in pairs and 100 traps in trawls of four, then 0.75 vessels are allocated to the pairs category and 0.25 vessels are allocated to the four-traps-per-trawl category. As a result, the traps-per-trawl frequency distribution shown here, as well as the crosstabulations presented below, in some cases reflect fractions of vessels.

following categories for the specification of model vessels: 1-200, 201-400, 401-600, and more than 600 traps.

Table ME-3 incorporates the categories specified above to illustrate the application of the approach to characterizing gear use. The table shows, for a hypothetical area and month, the percentage of vessels that fish a given combination of traps and traps per trawl. In this case, for instance, 30 percent of vessels fish 201 to 400 traps, configured as triples. As discussed below, the model employs matrices like this to characterize the baseline distribution of gear use in specified areas off the Maine coast. The distribution for each area varies on a monthly basis, reflecting the monthly variation in gear configurations reported in the survey.

FIGURE ME-2. DISTRIBUTION OF AVERAGE NUMBER OF TRAPS FOR DMR SURVEY RESPONDENTS

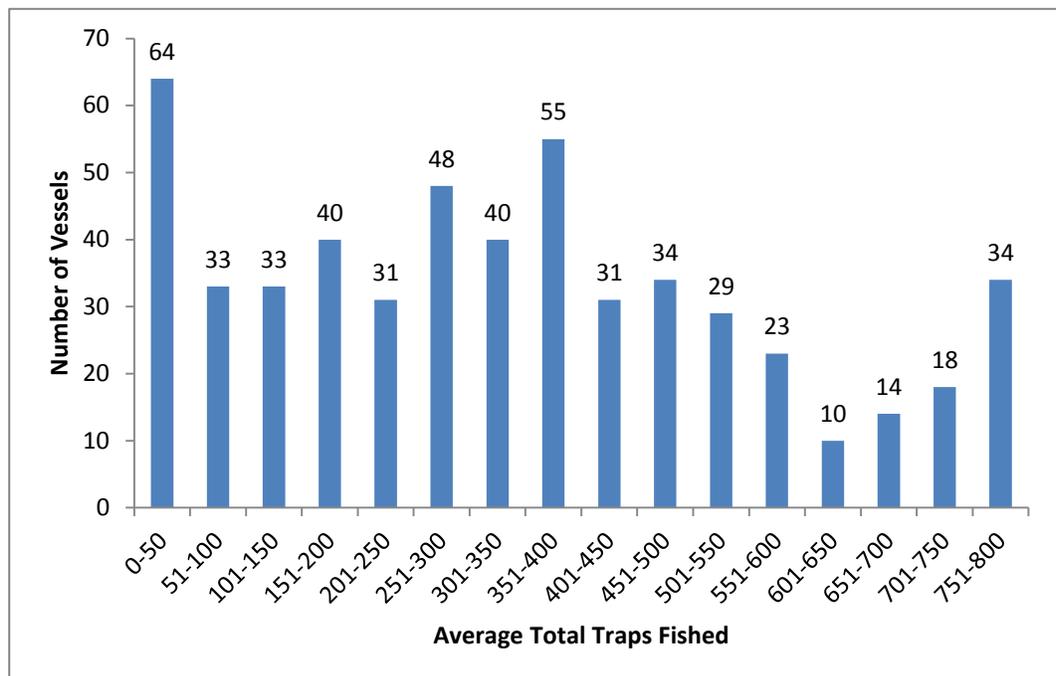


TABLE ME-3. DISTRIBUTION OF VESSELS FISHING A GIVEN CONFIGURATION OF GEAR FOR A HYPOTHETICAL AREA AND MONTH

TRAPS PER TRAWL	TRAPS PER VESSEL				TOTAL
	1-200 TRAPS	201-400 TRAPS	401-600 TRAPS	MORE THAN 600 TRAPS	
1	10%	20%	10%		40%
2					
3	10%	30%	10%		50%
4			5%		5%
5 to 7					
8 to 9					
10 to 14					
15 to 19				5%	5%
20+					
Total	20%	50%	25%	5%	100%

Model Vessel Areas

A second analytic issue involves the specification of the areas to which a given distribution of gear configurations would apply. In the DMR survey, fishermen selected from 40 areas to identify their fishing location. Consistent with Maine DMR guidance, we consolidate to 16 areas as follows:

- Four exempt state waters areas. These reflect combinations of the Maine lobster management zones. Specifically, we combine areas A and B; C and D; and F and G. Lobster zone E is maintained separately per DMR’s suggestion.
- Four non-exempt state waters areas, with the same zone combinations.
- Four nearshore areas (3-12 miles), with the same zone combinations.
- Four offshore areas (12+ miles), with the same zone combinations.

DMR’s recommendation for these groupings is based on general assessments of gear configuration patterns. For instance, vessels fishing in exempt waters of zones A and B tend to use configurations distinct from those of vessels fishing in exempt waters of zones C and D.

Table ME-4 presents a table showing the number of survey responses received in each area and month. The preference is for area consolidations that yield sample sizes representative of activity in each area/month combination. The area consolidation achieves this goal in most cases. However, sample sizes in some portions of Federal waters are small. When no data are available for a given area/month combination, the model applies the distribution from the adjacent month. For instance, we use the configuration from C/D 12+ June as the configuration for C/D 12+ July.

TABLE ME-4. NUMBER OF SURVEY RESPONDENTS BY AREA

MODEL VESSEL AREA	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
State Zone A/B Exempt	8	5	16	52	85	125	168	170	167	140	86	33
State Zone C/D Exempt	4	4	6	31	65	124	172	176	163	148	96	41
State Zone E Exempt	2	2	1	8	18	23	27	29	27	24	15	9
State Zone F/G Exempt	11	8	11	20	49	91	117	121	120	107	71	26
State Zone A/B Non-Exempt	11	8	12	36	39	47	53	58	65	68	51	40
State Zone C/D Non-Exempt	13	11	12	27	34	35	28	34	44	55	47	34
State Zone E Non-Exempt	3	1	2	7	7	9	7	10	11	10	8	5
State Zone F/G Non-Exempt	7	7	6	10	16	16	17	19	18	20	20	15
Zone A/B 3-12 Miles	23	15	20	27	27	27	26	25	36	43	44	38
Zone C/D 3-12 Miles	14	12	12	15	15	4	1		1	8	18	20
Zone E 3-12 Miles	6	8	6	6	5	2	1	1	2	7	8	7
Zone F/G 3-12 Miles	14	7	8	13	11	8	6	8	13	18	19	18
Zone A/B 12+	6	6	6	6	5	5	2	1	1	2	6	8
Zone C/D 12+	4	4	5	5	4	1			1	1	2	3
Zone E 12+	3	4	3	3	3	1	1	1	2	2	3	4
Zone F/G 12+	3	7	4	3	3	1	1	1	1			2

MODEL VESSEL PARAMETERS

Appendix ME-A presents the results of our analysis of gear distributions reported in the survey data, organized by the 16 areas in all 12 months. Separate tables summarize the number and percentage of survey respondents (i.e., two sets of tables for each month). The total sample size ("N") for each crosstab (i.e., the number of survey responses that address gear use in that area and month) is frequently 30 or more, particularly in months of peak activity. In some cases, the analysis relies upon relatively small samples in winter months; likewise, samples for the 12+ areas are small.

The vertical line model assigns the mix of gear configurations in a given area/month to vessels that fish there during that period. For instance, if the model estimates that 300 vessels fish in the "State Zone A/B Exempt" area in May, the model assigns the mix of gear configurations in the May "State Zone A/B Exempt" crosstab to these 300 active vessels.

To calculate the number of vertical lines deployed, the model must apply specific numerical values to parameters specified with ranges. For example, for the traps per trawl variable, we need to assign numerical values to the "5 to 7" range, the "8 to 9" range, etc.¹⁴ To do so, we calculate the average traps per trawl for all responses in the range, across all months. We do the same for the number of traps fished, calculating an average number of traps for each of the ranges. Table ME-5 summarizes the resulting values.

TABLE ME-5. POINT ESTIMATES APPLIED FOR GEAR CONFIGURATION RANGES

VARIABLE	RANGE	VALUE APPLIED IN MODEL	NUMBER OF OBSERVATIONS
Traps per Trawl	5 to 7	5.85	263
	8 to 9	8.06	157
	10 to 14	10.63	209
	15 to 19	15.14	7
	20+	20.29	78
Number of Traps Fished	1-200 Traps	126	1,803
	201-400 Traps	339	1,685
	401-600 Traps	539	701
	600+ Traps	776	759

¹⁴ The model assigns one endline to trawls of four or fewer traps, and two endlines to trawls of five or more traps. This assumption is consistent with data in the Lobster Gear Survey, which show a distinct break in the average number of endlines used between vessels fishing four traps per trawl and vessels fishing five traps per trawl.

The values presented in Table ME-5 are derived from the full set of survey responses. We compared the variation in averages between geographic areas and between months, and found the variation to be limited. Hence, we propose to apply these values to all months and all areas. It is essential to keep in mind that these are averages *within* each range. The model recognizes that gear configurations vary seasonally and by area, incorporating this variation through the distribution of active vessels to different model vessels (i.e., different combinations of traps and traps-per-trawl).

APPENDIX ME-A
DISTRIBUTION OF GEAR CONFIGURATIONS BY MONTH AND AREA

JANUARY

Number of Respondents

State Zone A/B Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.5	0.0	0.0	0.0	0.0	0.5
2	4.1	1.0	1.0	0.0	6.1	
3	0.5	0.0	0.0	0.0	0.5	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	1.0	0.0	0.0	1.0	
TOTAL	5.0	2.0	1.0	0.0	8.0	

State Zone C/D Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	0.0
2	2.0	2.0	0.0	0.0	4.0	
3	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	2.0	2.0	0.0	0.0	4.0	

State Zone E Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	2.0	0.0	0.0	0.0	2.0	
2	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	2.0	0.0	0.0	0.0	2.0	

State Zone F/G Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	0.0
2	2.0	0.6	0.0	0.0	2.6	
3	1.0	2.0	0.0	0.0	3.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	1.9	0.4	0.0	0.0	2.4	
8 to 9	1.1	1.0	0.0	0.0	2.1	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	1.0	1.0	
TOTAL	6.0	4.0	0.0	1.0	11.0	

State Zone A/B Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	1.0	0.0	0.0	0.0	1.0	
2	4.5	0.8	1.0	0.0	6.3	
3	2.5	0.2	0.0	0.0	2.7	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	1.0	0.0	0.0	1.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	8.0	2.0	1.0	0.0	11.0	

State Zone C/D Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.6	0.0	0.0	0.0	0.6	
2	3.2	4.1	1.0	0.0	8.3	
3	1.3	1.9	0.0	1.0	4.2	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	5.0	6.0	1.0	1.0	13.0	

State Zone E Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	2.0	0.0	0.0	0.0	2.0	
2	1.0	0.0	0.0	0.0	1.0	
3	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	3.0	0.0	0.0	0.0	3.0	

State Zone F/G Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	1.0	0.0	0.0	1.0	
2	3.0	1.0	0.0	0.0	4.0	
3	0.0	1.0	0.0	0.0	1.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	1.0	0.0	0.0	1.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	3.0	4.0	0.0	0.0	7.0	

Zone A/B 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	3.5	1.0	0.5	0.0	5.0	
3	0.5	2.8	0.5	1.0	4.8	
4	2.0	1.0	0.7	1.0	4.7	
5 to 7	0.0	1.2	1.7	0.0	2.9	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	2.0	1.0	1.0	0.0	4.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	1.0	0.6	0.0	1.6	
TOTAL	8.0	8.0	5.0	2.0	23.0	

Zone C/D 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	0.5	3.0	0.5	1.3	5.3	
3	0.5	4.0	0.5	1.0	6.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	1.0	0.0	0.8	1.8	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	1.0	0.0	0.0	1.0	
TOTAL	1.0	9.0	1.0	3.0	14.0	

Zone E 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	3.0	0.0	0.0	0.0	3.0	
3	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	2.0	0.0	2.0	
8 to 9	0.0	1.0	0.0	0.0	1.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	3.0	1.0	2.0	0.0	6.0	

Zone F/G 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	0.0	2.0	0.0	0.0	2.0	
3	0.0	0.7	0.0	0.0	0.7	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	1.0	0.0	1.0	0.0	2.0	
8 to 9	0.0	1.0	1.0	0.0	2.0	
10 to 14	0.0	2.3	0.0	2.0	4.3	
15 to 19	0.0	0.0	1.0	0.0	1.0	
20+	0.0	0.0	1.0	1.0	2.0	
TOTAL	1.0	6.0	4.0	3.0	14.0	

Zone A/B 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	1.3	1.3	
3	0.0	0.0	0.0	0.8	0.8	
4	0.0	0.0	1.0	0.0	1.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	1.0	0.0	0.0	1.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	1.0	0.0	1.0	2.0	
TOTAL	0.0	2.0	1.0	3.0	6.0	

Zone C/D 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	0.0	1.0	0.0	0.0	1.0	
3	0.0	1.0	0.0	0.0	1.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	1.0	0.0	0.0	0.0	1.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	1.0	0.0	0.0	1.0	
TOTAL	1.0	3.0	0.0	0.0	4.0	

Zone E 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	2.0	0.0	0.0	0.0	2.0	
3	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	1.0	0.0	0.0	0.0	1.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	3.0	0.0	0.0	0.0	3.0	

Zone F/G 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	1.0	0.0	0.0	1.0	
10 to 14	1.0	0.0	0.0	0.0	1.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	1.0	0.0	0.0	0.0	1.0	
TOTAL	2.0	1.0	0.0	0.0	3.0	

JANUARY

Percentage of Respondents

State Zone A/B Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	6%	0%	0%	0%	6%	6%
2	51%	13%	13%	0%	76%	76%
3	6%	0%	0%	0%	6%	6%
4	0%	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%	0%
20+	0%	13%	0%	0%	13%	13%
TOTAL	63%	25%	13%	0%	100%	100%

State Zone C/D Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	0%
2	50%	50%	0%	0%	100%	100%
3	0%	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%	0%
TOTAL	50%	50%	0%	0%	100%	100%

State Zone E Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	100%	0%	0%	0%	100%	100%
2	0%	0%	0%	0%	0%	0%
3	0%	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%	0%
TOTAL	100%	0%	0%	0%	100%	100%

State Zone F/G Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	0%
2	18%	5%	0%	0%	23%	23%
3	9%	18%	0%	0%	27%	27%
4	0%	0%	0%	0%	0%	0%
5 to 7	17%	4%	0%	0%	21%	21%
8 to 9	10%	9%	0%	0%	19%	19%
10 to 14	0%	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%	0%
20+	0%	0%	0%	9%	9%	9%
TOTAL	55%	36%	0%	9%	100%	100%

State Zone A/B Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	3%	0%	0%	0%	3%	3%
2	41%	7%	9%	0%	57%	57%
3	23%	2%	0%	0%	24%	24%
4	0%	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%	0%
10 to 14	0%	9%	0%	0%	9%	9%
15 to 19	0%	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%	0%
TOTAL	73%	18%	9%	0%	100%	100%

State Zone C/D Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	4%	0%	0%	0%	4%	4%
2	24%	31%	8%	0%	64%	64%
3	10%	15%	0%	8%	32%	32%
4	0%	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%	0%
TOTAL	38%	46%	8%	8%	100%	100%

State Zone E Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	67%	0%	0%	0%	67%	67%
2	33%	0%	0%	0%	33%	33%
3	0%	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%	0%
TOTAL	100%	0%	0%	0%	100%	100%

State Zone F/G Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	14%	0%	0%	14%	14%
2	43%	14%	0%	0%	57%	57%
3	0%	14%	0%	0%	14%	14%
4	0%	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%	0%
10 to 14	0%	14%	0%	0%	14%	14%
15 to 19	0%	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%	0%
TOTAL	43%	57%	0%	0%	100%	100%

Zone A/B 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	0%
2	15%	4%	2%	0%	22%	22%
3	2%	12%	2%	4%	21%	21%
4	3%	4%	3%	4%	20%	20%
5 to 7	0%	5%	8%	0%	13%	13%
8 to 9	0%	0%	0%	0%	0%	0%
10 to 14	3%	4%	4%	0%	17%	17%
15 to 19	0%	0%	0%	0%	0%	0%
20+	0%	4%	3%	0%	7%	7%
TOTAL	35%	35%	22%	9%	100%	100%

Zone C/D 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	0%
2	4%	21%	4%	9%	38%	38%
3	4%	29%	4%	7%	43%	43%
4	0%	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%	0%
10 to 14	0%	7%	0%	5%	13%	13%
15 to 19	0%	0%	0%	0%	0%	0%
20+	0%	7%	0%	0%	7%	7%
TOTAL	7%	64%	7%	21%	100%	100%

Zone E 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	0%
2	50%	0%	0%	0%	50%	50%
3	0%	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%	0%
5 to 7	0%	0%	33%	0%	33%	33%
8 to 9	0%	17%	0%	0%	17%	17%
10 to 14	0%	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%	0%
TOTAL	50%	17%	33%	0%	100%	100%

Zone F/G 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	0%
2	0%	14%	0%	0%	14%	14%
3	0%	5%	0%	0%	5%	5%
4	0%	0%	0%	0%	0%	0%
5 to 7	7%	0%	7%	0%	14%	14%
8 to 9	0%	7%	7%	0%	14%	14%
10 to 14	0%	17%	0%	14%	31%	31%
15 to 19	0%	0%	7%	0%	7%	7%
20+	0%	0%	7%	7%	14%	14%
TOTAL	7%	43%	29%	21%	100%	100%

Zone A/B 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	0%
2	0%	0%	0%	21%	21%	21%
3	0%	0%	0%	13%	13%	13%
4	0%	0%	17%	0%	17%	17%
5 to 7	0%	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%	0%
10 to 14	0%	17%	0%	0%	17%	17%
15 to 19	0%	0%	0%	0%	0%	0%
20+	0%	17%	0%	17%	33%	33%
TOTAL	0%	33%	17%	50%	100%	100%

Zone C/D 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	0%
2	0%	25%	0%	0%	25%	25%
3	0%	25%	0%	0%	25%	25%
4	0%	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%	0%
8 to 9	25%	0%	0%	0%	25%	25%
10 to 14	0%	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%	0%
20+	0%	25%	0%	0%	25%	25%
TOTAL	25%	75%	0%	0%	100%	100%

Zone E 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	0%
2	67%	0%	0%	0%	67%	67%
3	0%	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%	0%
8 to 9	33%	0%	0%	0%	33%	33%
10 to 14	0%	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%	0%
TOTAL	100%	0%	0%	0%	100%	100%

Zone F/G 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	0%
2	0%	0%	0%	0%	0%	0%
3	0%	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%	0%
8 to 9	0%	33%	0%	0%	33%	33%
10 to 14	33%	0%	0%	0%	33%	33%
15 to 19	0%	0%	0%	0%	0%	0%
20+	33%	0%	0%	0%	33%	33%
TOTAL	67%	33%	0%	0%	100%	100%

FEBRUARY

Number of Respondents

State Zone A/B Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.4	0.0	0.0	0.0	0.4
2	4.1	0.0	0.0	0.0	4.1
3	0.5	0.0	0.0	0.0	0.5
4	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	0.0	0.0	0.0	0.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	5.0	0.0	0.0	0.0	5.0

State Zone C/D Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	2.0	2.0	0.0	0.0	4.0
3	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	0.0	0.0	0.0	0.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	2.0	2.0	0.0	0.0	4.0

State Zone E Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	1.0	0.0	0.0	0.0	1.0
2	1.0	0.0	0.0	0.0	1.0
3	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	0.0	0.0	0.0	0.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	2.0	0.0	0.0	0.0	2.0

State Zone F/G Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	1.0	0.6	0.0	0.0	1.6
3	1.0	1.0	0.0	0.0	2.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	1.9	0.4	0.0	0.0	2.3
8 to 9	0.1	1.0	0.0	0.0	1.1
10 to 14	0.0	0.0	0.0	0.0	0.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	1.0	1.0
TOTAL	4.0	3.0	0.0	1.0	8.0

State Zone A/B Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	3.5	0.8	1.0	0.0	5.3
3	2.5	0.2	0.0	0.0	2.7
4	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	0.0	0.0	0.0	0.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	6.0	1.0	1.0	0.0	8.0

State Zone C/D Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.6	0.0	0.0	0.0	0.6
2	3.2	4.1	1.0	0.0	8.3
3	1.9	0.9	0.0	0.0	2.2
4	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	0.0	0.0	0.0	0.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	5.0	5.0	1.0	0.0	11.0

State Zone E Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	1.0	0.0	0.0	0.0	1.0
3	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	0.0	0.0	0.0	0.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	1.0	0.0	0.0	0.0	1.0

State Zone F/G Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	1.0	0.0	0.0	1.0
2	2.0	2.0	0.0	0.0	4.0
3	0.0	1.0	0.0	0.0	1.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	1.0	0.0	0.0	1.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	2.0	5.0	0.0	0.0	7.0

Zone A/B 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	2.5	1.0	0.0	0.0	3.5
3	0.5	2.8	0.0	0.0	3.3
4	1.0	1.0	0.7	1.0	3.7
5 to 7	0.0	0.2	1.7	0.0	1.9
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	0.0	1.0	0.0	1.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	1.0	0.6	0.0	1.6
TOTAL	4.0	6.0	4.0	1.0	15.0

Zone C/D 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	0.5	2.0	0.5	0.3	3.3
3	0.5	4.0	0.5	2.0	7.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	1.0	0.0	0.8	1.8
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	1.0	7.0	1.0	3.0	12.0

Zone E 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	3.0	0.0	0.0	0.0	3.0
3	0.0	0.7	0.0	0.0	0.7
4	0.0	0.0	0.0	0.0	0.0
5 to 7	1.0	0.0	2.0	0.0	3.0
8 to 9	0.0	1.0	0.0	0.0	1.0
10 to 14	0.0	0.3	0.0	0.0	0.3
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	4.0	2.0	2.0	0.0	8.0

Zone F/G 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	0.0	1.0	0.0	0.0	1.0
3	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	1.0	0.0	0.0	0.0	1.0
8 to 9	0.0	1.0	1.0	0.0	2.0
10 to 14	0.0	1.0	1.0	0.0	2.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	1.0	1.0
TOTAL	1.0	3.0	2.0	1.0	7.0

Zone A/B 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	1.3	1.3
3	0.0	0.0	0.0	0.8	0.8
4	0.0	0.0	1.0	0.0	1.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	1.0	0.0	0.0	1.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	1.0	0.0	1.0	2.0
TOTAL	0.0	2.0	1.0	3.0	6.0

Zone C/D 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	0.0	1.0	0.0	0.0	1.0
3	0.0	1.0	0.0	0.0	1.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	1.0	0.0	0.0	0.0	1.0
10 to 14	0.0	0.0	0.0	0.0	0.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	1.0	1.0
TOTAL	1.0	2.0	0.0	1.0	4.0

Zone E 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	2.0	0.0	0.0	0.0	2.0
3	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	1.0	0.0	0.0	0.0	1.0
10 to 14	1.0	0.0	0.0	0.0	1.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	4.0	0.0	0.0	0.0	4.0

Zone F/G 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	0.0	1.0	0.0	0.0	1.0
10 to 14	2.0	1.0	0.0	2.0	5.0
15 to 19	0.0	0.0	1.0	0.0	1.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	2.0	2.0	1.0	2.0	7.0

FEBRUARY
Percentage of Respondents

State Zone A/B Exempt						State Zone C/D Exempt						State Zone E Exempt						State Zone F/G Exempt											
Number of Traps per Vessel						Number of Traps per Vessel						Number of Traps per Vessel						Number of Traps per Vessel											
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL						
1	8%	0%	0%	0%	8%	1	0%	0%	0%	0%	0%	1	50%	0%	0%	0%	50%	1	0%	0%	0%	0%	0%	1	0%	0%	0%	0%	0%
2	83%	0%	0%	0%	83%	2	50%	50%	0%	0%	100%	2	50%	0%	0%	0%	50%	2	12%	7%	0%	0%	20%	2	29%	29%	0%	0%	57%
3	10%	0%	0%	0%	10%	3	0%	0%	0%	0%	0%	3	0%	0%	0%	0%	0%	3	12%	12%	0%	0%	25%	3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%	4	0%	0%	0%	0%	0%	4	0%	0%	0%	0%	0%	4	0%	0%	0%	0%	0%	4	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%	5 to 7	0%	0%	0%	0%	0%	5 to 7	0%	0%	0%	0%	0%	5 to 7	24%	5%	0%	0%	29%	5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%	8 to 9	0%	0%	0%	0%	0%	8 to 9	0%	0%	0%	0%	0%	8 to 9	1%	12%	0%	0%	13%	8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%	10 to 14	0%	0%	0%	0%	0%	10 to 14	0%	0%	0%	0%	0%	10 to 14	0%	0%	0%	0%	0%	10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%	15 to 19	0%	0%	0%	0%	0%	15 to 19	0%	0%	0%	0%	0%	15 to 19	0%	0%	0%	0%	0%	15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%	20+	0%	0%	0%	0%	0%	20+	0%	0%	0%	0%	0%	20+	0%	0%	0%	12%	12%	20+	0%	0%	0%	0%	0%
TOTAL	100%	0%	0%	0%	100%	TOTAL	50%	50%	0%	0%	100%	TOTAL	100%	0%	0%	0%	100%	TOTAL	50%	37%	0%	12%	100%						

State Zone A/B Non-Exempt						State Zone C/D Non-Exempt						State Zone E Non-Exempt						State Zone F/G Non-Exempt					
Number of Traps per Vessel						Number of Traps per Vessel						Number of Traps per Vessel						Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%	1	5%	0%	0%	0%	5%	1	0%	0%	0%	0%	0%	1	0%	14%	0%	0%	14%
2	44%	10%	13%	0%	66%	2	29%	37%	9%	0%	75%	2	100%	0%	0%	0%	100%	2	29%	29%	0%	0%	57%
3	91%	2%	0%	0%	94%	3	12%	8%	0%	0%	20%	3	0%	0%	0%	0%	0%	3	0%	14%	0%	0%	14%
4	0%	0%	0%	0%	0%	4	0%	0%	0%	0%	0%	4	0%	0%	0%	0%	0%	4	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%	5 to 7	0%	0%	0%	0%	0%	5 to 7	0%	0%	0%	0%	0%	5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%	8 to 9	0%	0%	0%	0%	0%	8 to 9	0%	0%	0%	0%	0%	8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%	10 to 14	0%	0%	0%	0%	0%	10 to 14	0%	0%	0%	0%	0%	10 to 14	0%	14%	0%	0%	14%
15 to 19	0%	0%	0%	0%	0%	15 to 19	0%	0%	0%	0%	0%	15 to 19	0%	0%	0%	0%	0%	15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%	20+	0%	0%	0%	0%	0%	20+	0%	0%	0%	0%	0%	20+	0%	0%	0%	0%	0%
TOTAL	75%	13%	13%	0%	100%	TOTAL	45%	45%	9%	0%	100%	TOTAL	100%	0%	0%	0%	100%	TOTAL	29%	71%	0%	0%	100%

Zone A/B 3-12 Miles						Zone C/D 3-12 Miles						Zone E 3-12 Miles						Zone F/G 3-12 Miles					
Number of Traps per Vessel						Number of Traps per Vessel						Number of Traps per Vessel						Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%	1	0%	0%	0%	0%	0%	1	0%	0%	0%	0%	0%	1	0%	0%	0%	0%	0%
2	17%	7%	0%	0%	23%	2	4%	17%	4%	2%	27%	2	36%	0%	0%	0%	36%	2	0%	14%	0%	0%	14%
3	3%	19%	0%	0%	22%	3	4%	33%	4%	17%	58%	3	0%	8%	0%	0%	8%	3	0%	0%	0%	0%	0%
4	7%	7%	4%	7%	24%	4	0%	0%	0%	0%	0%	4	0%	0%	0%	0%	0%	4	0%	0%	0%	0%	0%
5 to 7	0%	1%	12%	0%	13%	5 to 7	0%	0%	0%	0%	0%	5 to 7	1%	0%	25%	0%	26%	5 to 7	14%	0%	0%	0%	14%
8 to 9	0%	0%	0%	0%	0%	8 to 9	0%	0%	0%	0%	0%	8 to 9	0%	13%	0%	0%	13%	8 to 9	0%	14%	14%	0%	29%
10 to 14	0%	0%	7%	0%	7%	10 to 14	0%	8%	0%	6%	15%	10 to 14	0%	4%	0%	0%	4%	10 to 14	0%	14%	14%	0%	29%
15 to 19	0%	0%	0%	0%	0%	15 to 19	0%	0%	0%	0%	0%	15 to 19	0%	0%	0%	0%	0%	15 to 19	0%	0%	0%	0%	0%
20+	0%	7%	4%	0%	11%	20+	0%	0%	0%	0%	0%	20+	0%	0%	0%	0%	0%	20+	0%	0%	0%	14%	14%
TOTAL	27%	40%	27%	7%	100%	TOTAL	8%	58%	8%	25%	100%	TOTAL	50%	25%	25%	0%	100%	TOTAL	14%	43%	29%	14%	100%

Zone A/B 12+						Zone C/D 12+						Zone E 12+						Zone F/G 12+					
Number of Traps per Vessel						Number of Traps per Vessel						Number of Traps per Vessel						Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%	1	0%	0%	0%	0%	0%	1	0%	0%	0%	0%	0%	1	0%	0%	0%	0%	0%
2	0%	0%	0%	21%	21%	2	0%	25%	0%	0%	25%	2	50%	0%	0%	0%	50%	2	0%	0%	0%	0%	0%
3	0%	0%	0%	13%	13%	3	0%	25%	0%	0%	25%	3	0%	0%	0%	0%	0%	3	0%	0%	0%	0%	0%
4	0%	0%	17%	0%	17%	4	0%	0%	0%	0%	0%	4	0%	0%	0%	0%	0%	4	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%	5 to 7	0%	0%	0%	0%	0%	5 to 7	0%	0%	0%	0%	0%	5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%	8 to 9	25%	0%	0%	0%	25%	8 to 9	25%	0%	0%	0%	25%	8 to 9	0%	14%	0%	0%	14%
10 to 14	0%	17%	0%	0%	17%	10 to 14	0%	0%	0%	0%	0%	10 to 14	25%	0%	0%	0%	25%	10 to 14	29%	14%	0%	29%	71%
15 to 19	0%	0%	0%	0%	0%	15 to 19	0%	0%	0%	0%	0%	15 to 19	0%	0%	0%	0%	0%	15 to 19	0%	0%	14%	0%	14%
20+	0%	17%	0%	17%	33%	20+	0%	0%	0%	25%	25%	20+	0%	0%	0%	0%	0%	20+	0%	0%	0%	0%	0%
TOTAL	0%	33%	17%	56%	100%	TOTAL	25%	50%	0%	25%	100%	TOTAL	100%	0%	0%	0%	100%	TOTAL	29%	29%	14%	29%	100%

MARCH
Number of Respondents

State Zone A/B Exempt							State Zone C/D Exempt							State Zone E Exempt							State Zone F/G Exempt							
Number of Traps per Vessel							Number of Traps per Vessel							Number of Traps per Vessel							Number of Traps per Vessel							
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL		Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL		Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL		Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL		
1	1.4	0.0	0.0	0.0	1.4		1	1.0	0.0	0.0	0.0	1.0		1	0.0	0.0	0.0	0.0	0.0	0.0		1	0.2	0.0	0.0	0.0	0.0	0.2
2	11.1	2.0	0.0	1.0	14.1		2	2.0	3.0	0.0	0.0	5.0		2	1.0	0.0	0.0	0.0	1.0	1.0		2	1.8	0.6	0.0	0.0	0.0	2.5
3	0.5	0.0	0.0	0.0	0.5		3	0.0	0.0	0.0	0.0	0.0		3	0.0	0.0	0.0	0.0	0.0	0.0		3	1.0	1.0	0.0	0.0	0.0	2.0
4	0.0	0.0	0.0	0.0	0.0		4	0.0	0.0	0.0	0.0	0.0		4	0.0	0.0	0.0	0.0	0.0	0.0		4	0.0	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	0.0	0.0	0.0	0.0		5 to 7	0.0	0.0	0.0	0.0	0.0		5 to 7	0.0	0.0	0.0	0.0	0.0	0.0		5 to 7	3.9	0.4	0.0	0.0	0.0	4.3
8 to 9	0.0	0.0	0.0	0.0	0.0		8 to 9	0.0	0.0	0.0	0.0	0.0		8 to 9	0.0	0.0	0.0	0.0	0.0	0.0		8 to 9	0.1	1.0	0.0	0.0	0.0	1.1
10 to 14	0.0	0.0	0.0	0.0	0.0		10 to 14	0.0	0.0	0.0	0.0	0.0		10 to 14	0.0	0.0	0.0	0.0	0.0	0.0		10 to 14	0.0	0.0	0.0	0.0	0.0	0.0
15 to 19	0.0	0.0	0.0	0.0	0.0		15 to 19	0.0	0.0	0.0	0.0	0.0		15 to 19	0.0	0.0	0.0	0.0	0.0	0.0		15 to 19	0.0	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0		20+	0.0	0.0	0.0	0.0	0.0		20+	0.0	0.0	0.0	0.0	0.0	0.0		20+	0.0	0.0	0.0	0.0	1.0	1.0
TOTAL	13.0	2.0	0.0	1.0	16.0		TOTAL	3.0	3.0	0.0	0.0	6.0		TOTAL	1.0	0.0	0.0	0.0	1.0	1.0		TOTAL	7.0	3.0	0.0	1.0	11.0	11.0

State Zone A/B Non-Exempt							State Zone C/D Non-Exempt							State Zone E Non-Exempt							State Zone F/G Non-Exempt							
Number of Traps per Vessel							Number of Traps per Vessel							Number of Traps per Vessel							Number of Traps per Vessel							
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL		Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL		Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL		Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL		
1	0.0	0.0	0.0	0.0	0.0		1	0.6	0.0	0.0	0.0	0.6		1	1.0	0.0	0.0	0.0	0.0	1.0		1	0.0	1.0	0.0	0.0	0.0	1.0
2	7.9	1.0	1.0	1.0	9.9		2	2.2	4.1	1.0	1.0	8.3		2	1.0	0.0	0.0	0.0	1.0	1.0		2	3.0	1.0	0.0	0.0	0.0	4.0
3	2.1	0.0	0.0	0.0	2.1		3	2.3	0.9	0.0	0.0	3.2		3	0.0	0.0	0.0	0.0	0.0	0.0		3	0.0	1.0	0.0	0.0	0.0	1.0
4	0.0	0.0	0.0	0.0	0.0		4	0.0	0.0	0.0	0.0	0.0		4	0.0	0.0	0.0	0.0	0.0	0.0		4	0.0	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	0.0	0.0	0.0	0.0		5 to 7	0.0	0.0	0.0	0.0	0.0		5 to 7	0.0	0.0	0.0	0.0	0.0	0.0		5 to 7	0.0	0.0	0.0	0.0	0.0	0.0
8 to 9	0.0	0.0	0.0	0.0	0.0		8 to 9	0.0	0.0	0.0	0.0	0.0		8 to 9	0.0	0.0	0.0	0.0	0.0	0.0		8 to 9	0.0	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	0.0	0.0	0.0	0.0		10 to 14	0.0	0.0	0.0	0.0	0.0		10 to 14	0.0	0.0	0.0	0.0	0.0	0.0		10 to 14	0.0	0.0	0.0	0.0	0.0	0.0
15 to 19	0.0	0.0	0.0	0.0	0.0		15 to 19	0.0	0.0	0.0	0.0	0.0		15 to 19	0.0	0.0	0.0	0.0	0.0	0.0		15 to 19	0.0	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0		20+	0.0	0.0	0.0	0.0	0.0		20+	0.0	0.0	0.0	0.0	0.0	0.0		20+	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	10.0	1.0	1.0	1.0	12.0		TOTAL	5.0	5.0	1.0	1.0	12.0		TOTAL	2.0	0.0	0.0	0.0	2.0	2.0		TOTAL	3.0	3.0	0.0	0.0	6.0	6.0

Zone A/B 3-12 Miles							Zone C/D 3-12 Miles							Zone E 3-12 Miles							Zone F/G 3-12 Miles							
Number of Traps per Vessel							Number of Traps per Vessel							Number of Traps per Vessel							Number of Traps per Vessel							
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL		Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL		Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL		Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL		
1	0.0	0.0	0.0	0.0	0.0		1	0.0	0.0	0.0	0.0	0.0		1	0.0	0.0	0.0	0.0	0.0	0.0		1	0.0	0.0	0.0	0.0	0.0	0.0
2	5.5	2.0	0.0	0.0	7.5		2	0.5	2.0	0.5	0.3	3.3		2	3.0	0.0	0.0	0.0	3.0	3.0		2	0.0	1.0	0.0	0.0	0.0	2.0
3	0.5	2.8	0.0	0.0	3.3		3	0.5	4.0	0.5	2.0	7.0		3	0.0	0.0	0.0	0.0	0.0	0.0		3	0.0	0.5	0.0	0.0	0.0	0.5
4	1.0	1.0	0.7	1.0	3.7		4	0.0	0.0	0.0	0.0	0.0		4	0.0	0.0	0.0	0.0	0.0	0.0		4	0.0	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	1.6	0.0	0.0	1.6		5 to 7	0.0	0.0	0.0	0.0	0.0		5 to 7	0.0	0.0	2.0	0.0	2.0	2.0		5 to 7	1.0	0.0	0.0	0.0	0.0	1.0
8 to 9	0.0	0.0	0.0	0.0	0.0		8 to 9	0.0	0.0	0.0	0.0	0.0		8 to 9	0.0	1.0	0.0	0.0	1.0	1.0		8 to 9	0.0	1.0	1.0	0.0	0.0	2.0
10 to 14	0.0	1.0	1.0	0.0	2.0		10 to 14	0.0	0.0	0.0	0.8	0.8		10 to 14	0.0	0.0	0.0	0.0	0.0	0.0		10 to 14	0.0	1.5	0.0	0.0	0.0	1.5
15 to 19	0.0	0.0	0.0	0.0	0.0		15 to 19	0.0	0.0	0.0	0.0	0.0		15 to 19	0.0	0.0	0.0	0.0	0.0	0.0		15 to 19	0.0	0.0	0.0	0.0	0.0	0.0
20+	0.0	1.6	0.3	0.0	1.9		20+	0.0	0.0	1.0	0.0	1.0		20+	0.0	0.0	0.0	0.0	0.0	0.0		20+	0.0	0.0	0.0	0.0	1.0	1.0
TOTAL	7.0	10.0	2.0	1.0	20.0		TOTAL	1.0	6.0	2.0	3.0	12.0		TOTAL	3.0	1.0	2.0	0.0	6.0	6.0		TOTAL	1.0	4.0	2.0	1.0	8.0	8.0

Zone A/B 12+							Zone C/D 12+							Zone E 12+							Zone F/G 12+							
Number of Traps per Vessel							Number of Traps per Vessel							Number of Traps per Vessel							Number of Traps per Vessel							
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL		Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL		Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL		Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL		
1	0.0	0.0	0.0	0.0	0.0		1	0.0	0.0	0.0	0.0	0.0		1	0.0	0.0	0.0	0.0	0.0	0.0		1	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	1.9	1.9		2	0.0	1.0	0.0	0.0	1.0		2	1.0	0.0	0.0	0.0	1.0	1.0		2	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0		3	0.0	0.0	0.0	0.0	0.0		3	0.0	0.0	0.0	0.0	0.0	0.0		3	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	1.0	0.0	1.0		4	0.0	0.0	0.0	0.0	0.0		4	0.0	0.0	0.0	0.0	0.0	0.0		4	0.0	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	0.0	0.0	0.0	0.0		5 to 7	0.0	0.0	0.0	0.0	0.0		5 to 7	0.0	0.0	0.0	0.0	0.0	0.0		5 to 7	0.0	0.0	0.0	0.0	0.0	0.0
8 to 9	0.0	0.0	0.0	0.0	0.0		8 to 9	1.0	0.0	0.0	0.0	1.0		8 to 9	1.0	0.0	0.0	0.0	1.0	1.0		8 to 9	0.0	1.0	0.0	0.0	0.0	1.0
10 to 14	0.0	1.0	0.0	0.0	1.0		10 to 14	0.0	1.0	0.0	0.0	1.0		10 to 14	1.0	0.0	0.0	0.0	1.0	1.0		10 to 14	1.0	1.0	0.0	0.0	0.0	2.0
15 to 19	0.0	0.0	0.0	0.0	0.0		15 to 19	0.0	0.0	0.0	0.0	0.0		15 to 19	0.0	0.0	0.0	0.0	0.0	0.0		15 to 19	0.0	0.0	0.0	1.0	0.0	1.0
20+	0.0	1.0	0.0	1.0	2.0		20+	1.0	0.0	0.0	0.0	1.0		20+	0.0	0.0	0.0	0.0	0.0	0.0		20+	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	2.0	1.0	3.0	6.0		TOTAL	2.0	3.0	0.0	0.0	5.0		TOTAL	3.0	0.0	0.0	0.0	3.0	3.0		TOTAL	1.0	2.0	1.0	0.0	4.0	4.0

MARCH
Percentage of Respondents

State Zone A/B Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	9%	0%	0%	0%	9%	
2	69%	13%	0%	0%	88%	
3	3%	0%	0%	0%	3%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	81%	13%	0%	0%	100%	

State Zone C/D Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	17%	0%	0%	0%	17%	
2	33%	50%	0%	0%	83%	
3	0%	0%	0%	0%	0%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	50%	50%	0%	0%	100%	

State Zone E Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	100%	0%	0%	0%	100%	
3	0%	0%	0%	0%	0%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	100%	0%	0%	0%	100%	

State Zone F/G Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	2%	0%	0%	0%	2%	
2	17%	6%	0%	0%	23%	
3	9%	9%	0%	0%	18%	
4	0%	0%	0%	0%	0%	
5 to 7	36%	3%	0%	0%	39%	
8 to 9	1%	9%	0%	0%	10%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	64%	27%	0%	0%	100%	

State Zone A/B Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	66%	8%	0%	0%	83%	
3	17%	0%	0%	0%	17%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	83%	8%	0%	0%	100%	

State Zone C/D Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	5%	0%	0%	0%	5%	
2	18%	34%	8%	0%	69%	
3	19%	8%	0%	0%	26%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	42%	42%	8%	0%	100%	

State Zone E Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	50%	0%	0%	0%	50%	
2	50%	0%	0%	0%	50%	
3	0%	0%	0%	0%	0%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	100%	0%	0%	0%	100%	

State Zone F/G Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	17%	0%	0%	17%	
2	50%	17%	0%	0%	67%	
3	0%	17%	0%	0%	17%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	50%	50%	0%	0%	100%	

Zone A/B 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	28%	10%	0%	0%	38%	
3	3%	14%	0%	0%	17%	
4	5%	9%	9%	5%	18%	
5 to 7	0%	8%	0%	0%	8%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	9%	9%	0%	19%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	8%	2%	0%	10%	
TOTAL	35%	50%	10%	5%	100%	

Zone C/D 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	4%	17%	4%	2%	27%	
3	4%	33%	4%	1%	58%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	8%	0%	8%	
TOTAL	8%	50%	17%	2%	100%	

Zone E 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	50%	0%	0%	0%	50%	
3	0%	0%	0%	0%	0%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	33%	0%	33%	
8 to 9	0%	17%	0%	0%	17%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	50%	17%	33%	0%	100%	

Zone F/G 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	0%	13%	13%	0%	26%	
3	0%	6%	0%	0%	6%	
4	0%	0%	0%	0%	0%	
5 to 7	13%	0%	0%	0%	13%	
8 to 9	0%	13%	13%	0%	26%	
10 to 14	0%	19%	0%	0%	19%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	13%	13%	
TOTAL	13%	50%	25%	13%	100%	

Zone A/B 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	0%	0%	0%	21%	21%	
3	0%	0%	0%	13%	13%	
4	0%	0%	17%	0%	17%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	17%	0%	0%	17%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	17%	0%	17%	33%	
TOTAL	0%	33%	17%	50%	100%	

Zone C/D 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	0%	20%	0%	0%	20%	
3	0%	20%	0%	0%	20%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	20%	0%	0%	0%	20%	
10 to 14	0%	20%	0%	0%	20%	
15 to 19	0%	0%	0%	0%	0%	
20+	20%	0%	0%	0%	20%	
TOTAL	40%	60%	0%	0%	100%	

Zone E 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	33%	0%	0%	0%	33%	
3	0%	0%	0%	0%	0%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	33%	0%	0%	0%	33%	
10 to 14	33%	0%	0%	0%	33%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	100%	0%	0%	0%	100%	

Zone F/G 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	0%	0%	0%	0%	0%	
3	0%	0%	0%	0%	0%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	25%	0%	0%	25%	
10 to 14	25%	25%	0%	0%	50%	
15 to 19	0%	0%	25%	0%	25%	
20+	0%	0%	0%	0%	0%	
TOTAL	25%	50%	25%	0%	100%	

APRIL
Number of Respondents

State Zone A/B Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	7.8	2.8	0.2	0.0	10.8	
2	18.7	11.7	3.8	1.0	35.1	
3	0.5	0.5	0.0	0.0	1.0	
4	2.0	1.1	0.0	0.0	3.1	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	2.0	0.0	0.0	2.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	29.0	18.0	4.0	1.0	52.0	

State Zone C/D Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	8.7	0.5	0.4	0.1	9.7	
2	3.3	10.0	3.6	3.9	20.8	
3	0.0	0.5	0.0	0.0	0.5	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	12.0	11.0	4.0	4.0	31.0	

State Zone E Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	4.0	0.0	0.0	0.0	4.0	
2	3.0	0.5	0.0	0.0	3.5	
3	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.5	0.0	0.0	0.5	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	7.0	1.0	0.0	0.0	8.0	

State Zone F/G Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	6.3	0.0	0.0	0.0	6.3	
2	2.4	1.0	0.0	0.0	3.4	
3	0.0	2.0	0.0	0.0	2.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	3.3	0.5	1.0	0.0	4.8	
8 to 9	0.0	1.5	1.0	1.0	3.5	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	12.0	5.0	2.0	1.0	20.0	

State Zone A/B Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	1.7	0.7	0.0	0.0	2.4	
2	13.8	9.3	1.0	1.0	25.1	
3	1.5	0.0	0.0	0.0	1.5	
4	3.0	1.0	0.0	0.0	4.0	
5 to 7	1.0	0.0	0.0	0.0	1.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	1.0	1.0	0.0	0.0	2.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	22.0	12.0	1.0	1.0	36.0	

State Zone C/D Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.6	0.5	0.0	1.0	2.1	
2	3.8	10.8	0.0	8.0	22.6	
3	0.7	0.7	1.0	0.0	2.3	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	5.0	12.0	1.0	9.0	27.0	

State Zone E Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	2.0	0.0	0.0	0.0	2.0	
2	2.0	0.0	0.5	0.0	2.5	
3	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	2.0	0.0	0.5	0.0	2.5	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	6.0	0.0	1.0	0.0	7.0	

State Zone F/G Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	2.0	1.0	0.0	0.0	3.0	
2	1.0	2.0	0.0	0.0	3.0	
3	0.0	2.0	0.0	0.0	2.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	0.0	2.0	0.0	2.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	3.0	5.0	2.0	0.0	10.0	

Zone A/B 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	7.5	3.0	0.0	1.0	11.5	
3	1.5	2.0	0.0	0.0	3.5	
4	2.0	1.0	1.0	1.0	5.0	
5 to 7	0.0	1.4	0.0	0.0	1.4	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	2.0	1.0	0.0	3.0	
15 to 19	1.0	0.0	0.0	0.0	1.0	
20+	0.0	0.0	0.4	0.0	0.4	
TOTAL	12.0	10.0	3.0	2.0	27.0	

Zone C/D 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	1.5	1.5	1.0	0.0	4.0	
3	2.5	3.5	3.0	0.0	9.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	1.0	0.0	0.0	0.0	1.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	1.0	0.0	1.0	
TOTAL	5.0	5.0	5.0	0.0	15.0	

Zone E 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	3.0	0.0	0.0	0.0	3.0	
3	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	2.0	0.0	0.0	2.0	
8 to 9	0.0	1.0	0.0	0.0	1.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	3.0	3.0	0.0	0.0	6.0	

Zone F/G 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	1.0	3.0	0.0	0.0	4.0	
3	0.0	1.0	0.0	0.0	1.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	1.0	0.0	0.0	0.0	1.0	
8 to 9	0.0	2.0	0.0	0.0	2.0	
10 to 14	2.0	1.0	0.0	0.0	3.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	1.0	0.0	1.0	2.0	
TOTAL	4.0	8.0	0.0	1.0	13.0	

Zone A/B 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	2.0	0.0	2.0	
3	0.0	0.0	0.0	0.0	0.0	
4	1.0	0.0	0.0	0.0	1.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	1.0	1.0	0.0	2.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	1.0	1.0	
TOTAL	1.0	1.0	3.0	1.0	6.0	

Zone C/D 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	0.0	1.0	0.0	1.0	2.0	
3	0.0	1.0	0.0	0.0	1.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	1.0	0.0	0.0	0.0	1.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	1.0	0.0	0.0	0.0	1.0	
TOTAL	2.0	2.0	0.0	1.0	5.0	

Zone E 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	1.0	0.0	0.0	0.0	1.0	
3	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	1.0	0.0	0.0	0.0	1.0	
10 to 14	1.0	0.0	0.0	0.0	1.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	3.0	0.0	0.0	0.0	3.0	

Zone F/G 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	1.0	0.0	0.0	1.0	
10 to 14	0.0	1.0	0.0	0.0	1.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	1.0	0.0	0.0	1.0	
TOTAL	0.0	3.0	0.0	0.0	3.0	

APRIL

Percentage of Respondents

State Zone A/B Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	15%	5%	0%	0%	21%	
2	36%	22%	7%	2%	68%	
3	1%	1%	0%	0%	2%	
4	4%	2%	0%	0%	6%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	4%	0%	0%	4%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	56%	35%	8%	2%	100%	

State Zone C/D Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	28%	2%	1%	0%	31%	
2	11%	32%	12%	1%	67%	
3	0%	2%	0%	0%	2%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	39%	35%	13%	1%	100%	

State Zone E Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	50%	0%	0%	0%	50%	
2	38%	6%	0%	0%	44%	
3	0%	0%	0%	0%	0%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	88%	13%	0%	0%	100%	

State Zone F/G Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	31%	0%	0%	0%	31%	
2	12%	5%	0%	0%	17%	
3	0%	10%	0%	0%	10%	
4	0%	0%	0%	0%	0%	
5 to 7	16%	3%	5%	0%	24%	
8 to 9	0%	7%	3%	0%	10%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	60%	25%	10%	5%	100%	

State Zone A/B Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	5%	2%	0%	0%	7%	
2	38%	26%	3%	3%	70%	
3	4%	0%	0%	0%	4%	
4	8%	3%	0%	0%	11%	
5 to 7	3%	0%	0%	0%	3%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	3%	3%	0%	0%	6%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	61%	33%	3%	3%	100%	

State Zone C/D Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	2%	2%	0%	0%	4%	
2	14%	40%	0%	30%	84%	
3	2%	2%	4%	0%	8%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	19%	44%	4%	3%	100%	

State Zone E Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	29%	0%	0%	0%	29%	
2	29%	0%	7%	0%	36%	
3	0%	0%	0%	0%	0%	
4	0%	0%	0%	0%	0%	
5 to 7	29%	0%	7%	0%	36%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	86%	0%	14%	0%	100%	

State Zone F/G Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	20%	10%	0%	0%	30%	
2	10%	20%	0%	0%	30%	
3	0%	20%	0%	0%	20%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	0%	20%	0%	20%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	30%	50%	20%	0%	100%	

Zone A/B 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	28%	11%	0%	4%	43%	
3	6%	7%	0%	0%	13%	
4	7%	4%	6%	4%	21%	
5 to 7	0%	5%	0%	0%	5%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	7%	4%	0%	11%	
15 to 19	4%	0%	0%	0%	4%	
20+	0%	2%	1%	0%	4%	
TOTAL	44%	37%	11%	7%	100%	

Zone C/D 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	10%	10%	7%	0%	27%	
3	17%	23%	20%	0%	60%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	7%	0%	0%	0%	7%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	7%	0%	7%	
TOTAL	33%	33%	33%	0%	100%	

Zone E 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	50%	0%	0%	0%	50%	
3	0%	0%	0%	0%	0%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	33%	0%	0%	33%	
8 to 9	0%	17%	0%	0%	17%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	50%	50%	0%	0%	100%	

Zone F/G 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	8%	23%	0%	0%	31%	
3	0%	8%	0%	0%	8%	
4	0%	0%	0%	0%	0%	
5 to 7	8%	0%	0%	0%	8%	
8 to 9	0%	19%	0%	0%	19%	
10 to 14	19%	9%	0%	0%	28%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	8%	0%	0%	8%	
TOTAL	31%	62%	0%	8%	100%	

Zone A/B 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	0%	0%	33%	0%	33%	
3	0%	0%	0%	0%	0%	
4	17%	0%	0%	0%	17%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	17%	17%	0%	33%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	17%	17%	
TOTAL	17%	17%	50%	17%	100%	

Zone C/D 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	0%	20%	0%	20%	40%	
3	0%	20%	0%	0%	20%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	20%	0%	0%	0%	20%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	20%	0%	0%	20%	
TOTAL	40%	40%	0%	20%	100%	

Zone E 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	33%	0%	0%	0%	33%	
3	0%	0%	0%	0%	0%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	33%	0%	0%	0%	33%	
10 to 14	33%	0%	0%	0%	33%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	100%	0%	0%	0%	100%	

Zone F/G 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	0%	0%	0%	0%	0%	
3	0%	0%	0%	0%	0%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	33%	0%	0%	33%	
10 to 14	0%	33%	0%	0%	33%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	33%	0%	0%	33%	
TOTAL	0%	100%	0%	0%	100%	

MAY

Number of Respondents

State Zone A/B Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	17.5	8.7	2.9	2.8	31.9
2	13.5	23.6	7.7	2.3	47.0
3	0.8	0.7	0.4	0.0	1.8
4	1.3	1.1	0.0	0.0	2.3
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	2.0	0.0	0.0	2.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	33.0	36.0	11.0	5.0	85.0

State Zone C/D Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	17.8	7.4	4.6	0.1	30.0
2	5.2	16.1	5.4	7.9	34.5
3	0.0	0.5	0.0	0.0	0.5
4	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	0.0	0.0	0.0	0.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	23.0	24.0	10.0	8.0	65.0

State Zone E Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	5.0	1.3	2.5		8.8
2	3.0	3.7	1.5		8.2
3	0.0	0.0	0.0		0.0
4	0.0	0.0	0.0		0.0
5 to 7	1.0	0.0	0.0		1.0
8 to 9	0.0	0.0	0.0		0.0
10 to 14	0.0	0.0	0.0		0.0
15 to 19	0.0	0.0	0.0		0.0
20+	0.0	0.0	0.0		0.0
TOTAL	9.0	5.0	4.0		18.0

State Zone F/G Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	13.1	3.8	0.0	0.0	16.8
2	9.8	3.3	0.0	0.0	13.1
3	2.0	3.0	0.0	1.0	6.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	2.1	3.5	1.0	1.0	7.5
8 to 9	0.0	1.5	1.0	1.0	3.5
10 to 14	1.0	0.0	0.0	1.0	2.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	28.0	15.0	2.0	4.0	49.0

State Zone A/B Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.3	3.0	0.0	0.0	3.3
2	11.7	11.6	3.0	1.0	27.3
3	1.8	0.4	0.0	0.0	2.2
4	1.3	2.0	0.0	0.0	3.3
5 to 7	1.0	0.0	0.0	0.0	1.0
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	1.0	1.0	0.0	0.0	2.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	17.0	18.0	3.0	1.0	39.0

State Zone C/D Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.6	0.4	0.5	1.3	2.8
2	3.8	13.0	1.5	9.7	27.9
3	1.7	0.6	1.0	0.0	3.3
4	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	0.0	0.0	0.0	0.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	6.0	14.0	3.0	11.0	34.0

State Zone E Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	1.0	0.0	1.0	0.0	2.0
2	2.0	0.0	0.5	0.0	2.5
3	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	2.0	0.0	0.5	0.0	2.5
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	0.0	0.0	0.0	0.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	5.0	0.0	2.0	0.0	7.0

State Zone F/G Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	2.0	2.0	0.0	0.0	4.0
2	1.0	3.0	0.0	0.0	4.0
3	0.0	3.0	0.0	0.0	3.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	1.0	0.0	0.0	0.0	1.0
10 to 14	0.0	2.0	0.0	2.0	4.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	4.0	10.0	0.0	2.0	16.0

Zone A/B 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	5.0	4.6	0.0	1.0	10.6
3	2.0	0.4	1.0	0.4	3.8
4	2.0	1.0	1.6	1.6	6.2
5 to 7	1.0	0.0	0.0	0.0	1.0
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	2.0	1.0	0.0	3.0
15 to 19	1.0	0.0	0.0	0.0	1.0
20+	1.0	0.0	0.4	0.0	1.4
TOTAL	12.0	8.0	4.0	3.0	27.0

Zone C/D 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	1.5	2.5	2.0	0.0	6.0
3	1.5	4.5	1.0	0.0	7.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	1.0	0.0	0.0	0.0	1.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	1.0	0.0	1.0
TOTAL	4.0	7.0	4.0	0.0	15.0

Zone E 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	2.0	0.0	0.0	0.0	2.0
3	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	1.0	1.0	0.0	0.0	2.0
8 to 9	0.0	0.0	1.0	0.0	1.0
10 to 14	0.0	0.0	0.0	0.0	0.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	3.0	1.0	1.0	0.0	5.0

Zone F/G 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	1.0	2.0	0.0	0.0	3.0
3	0.0	1.0	0.0	0.0	1.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	1.0	0.0	0.0	0.0	1.0
8 to 9	0.0	2.0	0.0	0.0	2.0
10 to 14	2.0	0.0	0.0	0.0	2.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	2.0	0.0	0.0	2.0
TOTAL	4.0	7.0	0.0	0.0	11.0

Zone A/B 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	0.0	1.0	1.0	0.0	2.0
3	0.0	0.0	0.0	0.0	0.0
4	1.0	0.0	0.0	0.0	1.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	1.0	0.0	0.0	1.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	1.0	1.0
TOTAL	1.0	2.0	1.0	1.0	5.0

Zone C/D 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	1.0	1.0
3	0.0	1.0	0.0	0.0	1.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	1.0	0.0	0.0	0.0	1.0
10 to 14	0.0	0.0	0.0	0.0	0.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	1.0	0.0	0.0	0.0	1.0
TOTAL	2.0	1.0	0.0	1.0	4.0

Zone E 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	1.0	0.0	0.0	0.0	1.0
3	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	1.0	0.0	0.0	0.0	1.0
10 to 14	1.0	0.0	0.0	0.0	1.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	3.0	0.0	0.0	0.0	3.0

Zone F/G 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	0.0	1.0	0.0	0.0	1.0
10 to 14	0.0	1.0	0.0	0.0	1.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	1.0	0.0	0.0	1.0
TOTAL	0.0	3.0	0.0	0.0	3.0

MAY

Percentage of Respondents

State Zone A/B Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	21%	10%	3%	3%	37%	
2	16%	26%	9%	3%	55%	
3	1%	1%	0%	0%	2%	
4	1%	1%	0%	0%	3%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	2%	0%	0%	2%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	39%	42%	13%	6%	100%	

State Zone C/D Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	27%	11%	7%	0%	46%	
2	8%	25%	8%	12%	53%	
3	0%	1%	0%	0%	1%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	35%	37%	15%	12%	100%	

State Zone E Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	28%	7%	14%	0%	49%	
2	17%	20%	8%	0%	45%	
3	0%	0%	0%	0%	0%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	50%	28%	22%	0%	100%	

State Zone F/G Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	27%	8%	0%	0%	34%	
2	20%	7%	0%	0%	27%	
3	4%	6%	0%	2%	12%	
4	0%	0%	0%	0%	0%	
5 to 7	4%	7%	2%	2%	16%	
8 to 9	0%	3%	2%	2%	7%	
10 to 14	2%	0%	0%	0%	4%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	57%	31%	4%	8%	100%	

State Zone A/B Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	1%	8%	0%	0%	8%	
2	30%	30%	8%	3%	70%	
3	4%	1%	0%	0%	6%	
4	3%	5%	0%	0%	8%	
5 to 7	3%	0%	0%	0%	3%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	3%	3%	0%	0%	9%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	44%	46%	8%	3%	100%	

State Zone C/D Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	2%	1%	1%	0%	3%	
2	11%	38%	4%	23%	62%	
3	5%	2%	3%	0%	10%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	18%	41%	9%	32%	100%	

State Zone E Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	14%	0%	14%	0%	29%	
2	23%	0%	7%	0%	36%	
3	0%	0%	0%	0%	0%	
4	0%	0%	0%	0%	0%	
5 to 7	23%	0%	7%	0%	36%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	71%	0%	29%	0%	100%	

State Zone F/G Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	13%	13%	0%	0%	26%	
2	6%	19%	0%	0%	25%	
3	0%	19%	0%	0%	19%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	6%	0%	0%	0%	6%	
10 to 14	0%	19%	0%	13%	29%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	25%	63%	0%	13%	100%	

Zone A/B 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	19%	17%	0%	4%	39%	
3	7%	2%	4%	1%	14%	
4	7%	4%	6%	6%	23%	
5 to 7	4%	0%	0%	0%	4%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	7%	4%	0%	11%	
15 to 19	4%	0%	0%	0%	4%	
20+	4%	0%	1%	0%	5%	
TOTAL	44%	30%	15%	11%	100%	

Zone C/D 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	10%	17%	13%	0%	40%	
3	10%	30%	7%	0%	47%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	7%	0%	0%	0%	7%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	7%	0%	7%	
TOTAL	27%	47%	27%	0%	100%	

Zone E 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	40%	0%	0%	0%	40%	
3	0%	0%	0%	0%	0%	
4	0%	0%	0%	0%	0%	
5 to 7	20%	20%	0%	0%	40%	
8 to 9	0%	0%	20%	0%	20%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	60%	20%	20%	0%	100%	

Zone F/G 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	9%	18%	0%	0%	27%	
3	0%	9%	0%	0%	9%	
4	0%	0%	0%	0%	0%	
5 to 7	9%	0%	0%	0%	9%	
8 to 9	0%	18%	0%	0%	18%	
10 to 14	18%	0%	0%	0%	18%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	18%	0%	0%	18%	
TOTAL	36%	64%	0%	0%	100%	

Zone A/B 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	0%	20%	20%	0%	40%	
3	0%	0%	0%	0%	0%	
4	20%	0%	0%	0%	20%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	20%	0%	0%	20%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	20%	20%	
TOTAL	20%	40%	20%	20%	100%	

Zone C/D 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	0%	0%	0%	25%	25%	
3	0%	25%	0%	0%	25%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	25%	0%	0%	0%	25%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	25%	0%	0%	0%	25%	
TOTAL	50%	25%	0%	25%	100%	

Zone E 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	33%	0%	0%	0%	33%	
3	0%	0%	0%	0%	0%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	33%	0%	0%	0%	33%	
10 to 14	33%	0%	0%	0%	33%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	100%	0%	0%	0%	100%	

Zone F/G 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	0%	0%	0%	0%	0%	
3	0%	0%	0%	0%	0%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	33%	0%	0%	33%	
10 to 14	0%	33%	0%	0%	33%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	33%	0%	0%	33%	
TOTAL	0%	100%	0%	0%	100%	

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Number of Respondents

State Zone A/B Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	34.8	13.3	11.6	6.2	65.9	
2	15.2	18.5	12.0	7.9	53.5	
3	0.3	0.5	0.3	0.0	1.0	
4	1.8	0.7	0.1	0.0	2.6	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	2.0	0.0	0.0	2.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	52.0	35.0	24.0	14.0	125.0	

State Zone C/D Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	32.8	28.0	8.5	6.8	76.2	
2	6.2	13.5	14.5	11.7	45.9	
3	0.0	0.5	0.0	0.5	1.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	1.0	1.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	39.0	42.0	23.0	20.0	124.0	

State Zone E Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	7.0	2.3	3.3	0.0	13.2	
2	1.0	2.8	4.1	0.0	7.9	
3	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	1.0	0.0	0.0	1.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	1.0	0.0	0.0	0.0	1.0	
TOTAL	9.0	6.0	8.0	0.0	23.0	

State Zone F/G Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	21.6	5.3	0.6	1.0	28.4	
2	13.0	5.0	2.0	1.5	21.4	
3	5.0	5.0	1.0	1.0	12.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	3.5	4.8	4.0	5.5	17.7	
8 to 9	1.0	1.0	2.5	5.0	9.5	
10 to 14	0.0	1.0	0.0	1.0	2.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	44.0	22.0	10.0	15.0	91.0	

State Zone A/B Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	7.6	3.7	0.0	1.0	12.3	
2	13.4	12.9	3.0	0.0	29.3	
3	1.3	0.4	0.0	0.0	1.6	
4	1.8	2.0	0.0	0.0	3.8	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	1.0	1.0	0.0	0.0	2.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	25.0	20.0	3.0	1.0	49.0	

State Zone C/D Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	2.6	1.7	0.0	2.4	6.6	
2	4.3	14.0	1.0	7.6	26.9	
3	0.2	1.3	0.0	0.0	1.5	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	7.0	17.0	1.0	10.0	35.0	

State Zone E Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	1.0	0.0	1.0	0.0	2.0	
2	2.0	0.0	2.5	0.0	4.5	
3	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	2.0	0.0	0.5	0.0	2.5	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	5.0	0.0	4.0	0.0	9.0	

State Zone F/G Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	2.0	2.0	0.0	0.0	4.0	
2	2.0	1.0	1.0	0.0	4.0	
3	0.0	3.0	0.0	0.0	3.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	1.0	0.0	0.0	1.0	
10 to 14	1.0	2.0	0.0	1.0	4.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	5.0	9.0	1.0	1.0	16.0	

Zone A/B 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	6.0	4.6	0.0	1.0	11.6	
3	2.0	0.4	0.0	0.4	2.8	
4	2.0	1.5	1.0	1.6	6.1	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	1.0	1.0	1.0	3.0	
15 to 19	1.0	0.0	0.0	0.0	1.0	
20+	0.0	0.5	0.0	0.0	0.5	
TOTAL	11.0	8.0	2.0	4.0	25.0	

Zone C/D 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	0.0	2.0	0.0	0.0	2.0	
3	1.0	0.0	0.0	0.0	1.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	1.0	0.0	1.0	
TOTAL	1.0	2.0	1.0	0.0	4.0	

Zone E 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	1.0	0.0	0.0	0.0	1.0	
8 to 9	0.0	0.0	1.0	0.0	1.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	1.0	0.0	1.0	0.0	2.0	

Zone F/G 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	1.0	2.0	0.0	0.0	3.0	
3	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	1.0	0.0	0.0	0.0	1.0	
8 to 9	1.0	0.0	0.0	0.0	1.0	
10 to 14	2.0	0.0	0.0	0.0	2.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	1.0	0.0	0.0	1.0	
TOTAL	5.0	3.0	0.0	0.0	8.0	

Zone A/B 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	0.0	1.0	1.0	0.0	2.0	
3	0.0	0.0	0.0	0.0	0.0	
4	2.0	0.0	0.0	0.0	2.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	1.0	1.0	
TOTAL	2.0	1.0	1.0	1.0	5.0	

Zone C/D 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	0.0	1.0	0.0	0.0	1.0	
3	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.0	1.0	0.0	0.0	1.0	

Zone E 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	0.0	1.0	0.0	0.0	1.0	
3	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.0	1.0	0.0	0.0	1.0	

Zone F/G 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	1.0	0.0	0.0	1.0	
TOTAL	0.0	1.0	0.0	0.0	1.0	

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Percentage of Respondents

State Zone A/B Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	28%	11%	9%	5%	53%
2	12%	15%	10%	6%	43%
3	0%	0%	0%	0%	1%
4	1%	1%	0%	0%	2%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	2%	0%	0%	2%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	42%	28%	19%	11%	100%

State Zone C/D Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	26%	23%	7%	9%	61%
2	5%	11%	12%	9%	37%
3	0%	0%	0%	0%	1%
4	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	1%	3%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	91%	94%	19%	16%	100%

State Zone E Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	30%	10%	17%	0%	57%
2	4%	12%	18%	0%	34%
3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%
5 to 7	0%	4%	0%	0%	4%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	4%	0%	0%	0%	4%
TOTAL	39%	26%	35%	0%	100%

State Zone F/G Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	24%	6%	1%	1%	31%
2	14%	5%	2%	2%	24%
3	5%	5%	1%	1%	13%
4	0%	0%	0%	0%	0%
5 to 7	4%	5%	4%	6%	19%
8 to 9	1%	1%	3%	5%	10%
10 to 14	0%	1%	0%	1%	2%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	48%	24%	11%	16%	100%

State Zone A/B Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	15%	8%	0%	2%	25%
2	27%	26%	6%	0%	60%
3	3%	1%	0%	0%	3%
4	4%	4%	0%	0%	8%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%
10 to 14	2%	2%	0%	0%	4%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	51%	41%	6%	2%	100%

State Zone C/D Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	7%	5%	0%	7%	19%
2	12%	40%	9%	22%	77%
3	0%	4%	0%	0%	4%
4	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	20%	43%	3%	29%	100%

State Zone E Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	11%	0%	11%	0%	22%
2	22%	0%	28%	0%	50%
3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%
5 to 7	22%	0%	6%	0%	28%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	56%	0%	44%	0%	100%

State Zone F/G Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	13%	13%	0%	0%	26%
2	13%	6%	6%	0%	25%
3	0%	19%	0%	0%	19%
4	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	6%	0%	0%	6%
10 to 14	6%	13%	0%	6%	25%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	31%	56%	6%	6%	100%

Zone A/B 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	24%	19%	0%	4%	47%
3	8%	1%	0%	2%	11%
4	8%	6%	4%	6%	24%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	4%	4%	4%	12%
15 to 19	4%	0%	0%	0%	4%
20+	0%	2%	0%	0%	2%
TOTAL	44%	32%	8%	16%	100%

Zone C/D 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	50%	0%	0%	50%
3	25%	0%	0%	0%	25%
4	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	25%	0%	25%
TOTAL	25%	50%	25%	0%	100%

Zone E 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	0%	0%	0%	0%
3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%
5 to 7	50%	0%	0%	0%	50%
8 to 9	0%	0%	50%	0%	50%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	50%	0%	50%	0%	100%

Zone F/G 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	13%	25%	0%	0%	38%
3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%
5 to 7	13%	0%	0%	0%	13%
8 to 9	13%	0%	0%	0%	13%
10 to 14	29%	0%	0%	0%	29%
15 to 19	0%	0%	0%	0%	0%
20+	0%	13%	0%	0%	13%
TOTAL	63%	38%	0%	0%	100%

Zone A/B 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	20%	20%	0%	40%
3	0%	0%	0%	0%	0%
4	40%	0%	0%	0%	40%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	20%	0%	20%
TOTAL	40%	20%	20%	0%	100%

Zone C/D 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	100%	0%	0%	100%
3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	0%	100%	0%	0%	100%

Zone E 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	100%	0%	0%	100%
3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	0%	100%	0%	0%	100%

Zone F/G 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	0%	0%	0%	0%
3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	100%	0%	0%	100%
TOTAL	0%	100%	0%	0%	100%

JULY

Number of Respondents

State Zone A/B Exempt							State Zone C/D Exempt							State Zone E Exempt							State Zone F/G Exempt						
Number of Traps per Vessel							Number of Traps per Vessel							Number of Traps per Vessel							Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL		Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL		Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL		Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	44.0	23.0	17.4	16.9	101.3		1	36.7	33.4	16.4	18.7	105.1		1	9.0	2.0	6.9	0.0	17.9		1	28.1	6.3	2.0	2.5	38.9	
2	15.0	24.2	14.4	8.9	62.4		2	9.9	11.2	13.4	27.6	61.7		2	1.0	1.0	6.9	0.0	8.9		2	15.0	4.5	1.9	1.9	22.6	
3	0.0	0.0	0.1	0.0	0.5		3	2.0	0.5	0.2	0.5	3.2		3	0.0	0.0	0.0	0.0	0.0		3	4.0	6.0	1.0	2.4	13.4	
4	1.0	0.0	0.1	0.3	1.4		4	0.0	0.0	1.0	0.0	1.0		4	0.0	0.0	0.0	0.0	0.0		4	1.0	0.5	0.0	0.0	1.5	
5 to 7	0.0	0.0	0.0	0.0	0.0		5 to 7	0.0	0.0	0.0	1.0	1.0		5 to 7	0.0	0.0	0.8	0.0	0.8		5 to 7	2.0	4.8	3.1	12.6	22.4	
8 to 9	0.0	0.0	0.0	0.0	0.0		8 to 9	0.0	0.0	0.0	0.0	0.0		8 to 9	0.0	0.0	0.0	0.0	0.0		8 to 9	0.0	2.0	1.0	11.2	14.2	
10 to 14	0.0	2.0	0.0	0.0	2.0		10 to 14	0.0	0.0	0.0	0.0	0.0		10 to 14	0.0	0.0	0.0	0.0	0.0		10 to 14	0.0	0.0	2.0	1.5	3.5	
15 to 19	0.0	0.0	0.0	0.0	0.0		15 to 19	0.0	0.0	0.0	0.0	0.0		15 to 19	0.0	0.0	0.0	0.0	0.0		15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0		20+	0.0	0.0	0.0	0.0	0.0		20+	0.0	0.0	0.0	0.0	0.0		20+	0.0	0.0	0.0	0.5	0.5	
TOTAL	60.0	50.0	32.0	26.0	169.0		TOTAL	48.0	45.0	31.0	48.0	172.0		TOTAL	10.0	3.0	14.0	0.0	27.0		TOTAL	50.0	24.0	11.0	32.0	117.0	

State Zone A/B Non-Exempt							State Zone C/D Non-Exempt							State Zone E Non-Exempt							State Zone F/G Non-Exempt						
Number of Traps per Vessel							Number of Traps per Vessel							Number of Traps per Vessel							Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL		Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL		Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL		Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	9.3	4.5	3.4	2.6	19.9		1	2.5	2.1	0.0	2.1	6.6		1	0.5	0.0	1.0	0.0	1.5		1	3.0	2.0	0.0	0.0	5.0	
2	13.2	13.7	2.6	1.0	30.5		2	6.5	5.9	1.0	7.9	21.4		2	0.5	1.0	2.5	0.0	4.0		2	1.0	1.5	0.0	0.5	3.0	
3	0.5	0.8	0.0	0.4	1.7		3	0.0	0.0	0.0	0.0	0.0		3	0.0	0.0	0.0	0.0	0.0		3	0.0	3.0	0.0	0.5	3.5	
4	2.0	0.0	0.0	0.0	2.0		4	0.0	0.0	0.0	0.0	0.0		4	0.0	0.0	0.0	0.0	0.0		4	0.0	0.5	0.0	0.0	0.5	
5 to 7	0.0	0.0	0.0	0.0	0.0		5 to 7	0.0	0.0	0.0	0.0	0.0		5 to 7	1.0	0.0	0.3	0.0	1.3		5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0		8 to 9	0.0	0.0	0.0	0.0	0.0		8 to 9	0.0	0.0	0.0	0.0	0.0		8 to 9	0.0	1.0	0.0	0.0	1.0	
10 to 14	1.0	1.0	1.0	0.0	2.0		10 to 14	0.0	0.0	0.0	0.0	0.0		10 to 14	0.0	0.0	0.0	0.0	0.0		10 to 14	0.0	2.0	0.0	2.0	4.0	
15 to 19	0.0	0.0	0.0	0.0	0.0		15 to 19	0.0	0.0	0.0	0.0	0.0		15 to 19	0.0	0.0	0.0	0.0	0.0		15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	1.0	0.0	0.0	1.0		20+	0.0	0.0	0.0	0.0	0.0		20+	0.0	0.0	0.0	0.0	0.0		20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	25.0	21.0	6.0	4.0	56.0		TOTAL	9.0	8.0	1.0	10.0	28.0		TOTAL	2.0	1.0	4.0	0.0	7.0		TOTAL	4.0	10.0	0.0	3.0	17.0	

Zone A/B 3-12 Miles							Zone C/D 3-12 Miles							Zone E 3-12 Miles							Zone F/G 3-12 Miles						
Number of Traps per Vessel							Number of Traps per Vessel							Number of Traps per Vessel							Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL		Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL		Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL		Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0		1	0.0	0.0	0.0	0.0	0.0		1	0.0	0.0	0.0	0.0	0.0		1	0.0	0.0	0.0	0.0	0.0	
2	8.0	5.0	1.0	1.0	15.0		2	0.0	1.0	0.0	0.0	1.0		2	0.0	0.0	0.0	0.0	0.0		2	0.0	2.0	0.0	0.0	3.0	
3	1.0	0.0	0.0	0.4	1.4		3	0.0	0.0	0.0	0.0	0.0		3	0.0	0.0	0.0	0.0	0.0		3	0.0	0.0	0.0	0.0	0.0	
4	2.0	0.0	0.0	0.8	2.6		4	0.0	0.0	0.0	0.0	0.0		4	0.0	0.0	0.0	0.0	0.0		4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0		5 to 7	0.0	0.0	0.0	0.0	0.0		5 to 7	0.0	0.0	0.0	0.0	0.0		5 to 7	1.0	0.0	0.0	0.0	1.0	
8 to 9	0.0	0.0	0.0	0.0	0.0		8 to 9	0.0	0.0	0.0	0.0	0.0		8 to 9	0.0	0.0	1.0	0.0	1.0		8 to 9	0.0	1.0	0.0	0.0	1.0	
10 to 14	0.0	3.0	1.0	0.0	4.0		10 to 14	0.0	0.0	0.0	0.0	0.0		10 to 14	0.0	0.0	0.0	0.0	0.0		10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0		15 to 19	0.0	0.0	0.0	0.0	0.0		15 to 19	0.0	0.0	0.0	0.0	0.0		15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0		20+	0.0	0.0	0.0	0.0	0.0		20+	0.0	0.0	0.0	0.0	0.0		20+	0.0	1.0	0.0	0.0	1.0	
TOTAL	11.0	8.0	2.0	2.0	23.0		TOTAL	0.0	1.0	0.0	0.0	1.0		TOTAL	0.0	0.0	1.0	0.0	1.0		TOTAL	2.0	4.0	0.0	0.0	6.0	

Zone A/B 12+							Zone C/D 12+							Zone E 12+							Zone F/G 12+						
Number of Traps per Vessel							Number of Traps per Vessel							Number of Traps per Vessel							Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL		Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL		Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL		Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0		1	0.0	0.0	0.0	0.0	0.0		1	0.0	0.0	0.0	0.0	0.0		1	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	1.0	0.0	1.0		2	0.0	0.0	0.0	0.0	0.0		2	0.0	1.0	0.0	0.0	1.0		2	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0		3	0.0	0.0	0.0	0.0	0.0		3	0.0	0.0	0.0	0.0	0.0		3	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0		4	0.0	0.0	0.0	0.0	0.0		4	0.0	0.0	0.0	0.0	0.0		4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0		5 to 7	0.0	0.0	0.0	0.0	0.0		5 to 7	0.0	0.0	0.0	0.0	0.0		5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0		8 to 9	0.0	0.0	0.0	0.0	0.0		8 to 9	0.0	0.0	0.0	0.0	0.0		8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	0.0	0.0	0.0	0.0		10 to 14	0.0	0.0	0.0	0.0	0.0		10 to 14	0.0	0.0	0.0	0.0	0.0		10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0		15 to 19	0.0	0.0	0.0	0.0	0.0		15 to 19	0.0	0.0	0.0	0.0	0.0		15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	1.0	0.0	0.0	1.0		20+	0.0	0.0	0.0	0.0	0.0		20+	0.0	0.0	0.0	0.0	0.0		20+	0.0	1.0	0.0	0.0	1.0	
TOTAL	0.0	1.0	1.0	0.0	2.0		TOTAL	0.0	0.0	0.0	0.0	0.0		TOTAL	0.0	1.0	0.0	0.0	1.0		TOTAL	0.0	1.0	0.0	0.0	1.0	

JULY

Percentage of Respondents

State Zone A/B Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	26%	14%	10%	10%	60%	
2	9%	14%	9%	5%	37%	
3	0%	0%	0%	0%	1%	
4	1%	0%	0%	0%	1%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	1%	0%	0%	1%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	36%	30%	19%	15%	100%	

State Zone C/D Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	21%	19%	10%	11%	61%	
2	5%	6%	8%	16%	36%	
3	1%	0%	0%	0%	2%	
4	0%	0%	1%	0%	1%	
5 to 7	0%	0%	0%	1%	1%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	28%	26%	18%	28%	100%	

State Zone E Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	33%	7%	25%	0%	66%	
2	4%	4%	23%	0%	31%	
3	0%	0%	0%	0%	0%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	3%	0%	3%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	37%	11%	52%	0%	100%	

State Zone F/G Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	24%	5%	2%	2%	33%	
2	13%	4%	2%	1%	19%	
3	3%	5%	1%	2%	11%	
4	1%	0%	0%	0%	1%	
5 to 7	2%	4%	3%	11%	19%	
8 to 9	0%	2%	1%	10%	12%	
10 to 14	0%	0%	2%	1%	3%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	43%	21%	9%	27%	100%	

State Zone A/B Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	15%	8%	6%	5%	34%	
2	24%	24%	5%	2%	54%	
3	1%	1%	0%	1%	3%	
4	4%	0%	0%	0%	4%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	2%	2%	0%	0%	4%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	2%	0%	0%	2%	
TOTAL	45%	37%	11%	7%	100%	

State Zone C/D Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	9%	7%	0%	7%	24%	
2	23%	21%	4%	28%	76%	
3	0%	0%	0%	0%	0%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	32%	29%	4%	36%	100%	

State Zone E Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	7%	0%	14%	0%	21%	
2	2%	7%	36%	0%	57%	
3	0%	0%	0%	0%	0%	
4	0%	0%	0%	0%	0%	
5 to 7	14%	0%	7%	0%	21%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	23%	14%	57%	0%	100%	

State Zone F/G Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	18%	12%	0%	0%	29%	
2	6%	9%	0%	3%	18%	
3	0%	18%	0%	3%	21%	
4	0%	3%	0%	0%	3%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	6%	0%	0%	6%	
10 to 14	0%	12%	0%	12%	24%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	24%	59%	0%	18%	100%	

Zone A/B 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	35%	22%	4%	4%	65%	
3	4%	0%	0%	2%	6%	
4	9%	0%	0%	3%	11%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	13%	4%	0%	17%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	48%	35%	9%	9%	100%	

Zone C/D 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	0%	100%	0%	0%	100%	
3	0%	0%	0%	0%	0%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	0%	100%	0%	0%	100%	

Zone E 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	0%	0%	0%	0%	0%	
3	0%	0%	0%	0%	0%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	100%	0%	100%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	0%	0%	100%	0%	100%	

Zone F/G 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	17%	33%	0%	0%	50%	
3	0%	0%	0%	0%	0%	
4	0%	0%	0%	0%	0%	
5 to 7	17%	0%	0%	0%	17%	
8 to 9	0%	17%	0%	0%	17%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	17%	0%	0%	17%	
TOTAL	33%	67%	0%	0%	100%	

Zone A/B 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	0%	0%	50%	0%	50%	
3	0%	0%	0%	0%	0%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	50%	0%	0%	50%	
TOTAL	0%	50%	50%	0%	100%	

Zone C/D 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
5 to 7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
8 to 9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
10 to 14	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
15 to 19	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
20+	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
TOTAL	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	

Zone E 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	0%	100%	0%	0%	100%	
3	0%	0%	0%	0%	0%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	0%	100%	0%	0%	100%	

Zone F/G 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	0%	0%	0%	0%	0%	
3	0%	0%	0%	0%	0%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	100%	0%	0%	100%	
TOTAL	0%	100%	0%	0%	100%	

AUGUST

Number of Respondents

State Zone A/B Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	43.5	24.5	13.6	20.7	102.2
2	12.5	23.6	18.2	8.6	62.9
3	0.0	0.9	0.1	0.5	1.6
4	1.0	0.0	0.1	0.3	1.4
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	2.0	0.0	0.0	2.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	57.0	51.0	32.0	30.0	170.0

State Zone C/D Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	41.3	28.6	19.8	17.3	106.9
2	8.8	11.9	16.0	27.2	63.9
3	2.0	0.5	0.2	0.5	3.2
4	0.0	0.0	1.0	0.0	1.0
5 to 7	0.0	0.0	0.0	1.0	1.0
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	0.0	0.0	0.0	0.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	52.0	41.0	37.0	46.0	176.0

State Zone E Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	10.0	2.0	5.8	0.0	17.8
2	1.0	1.0	6.4	0.0	8.4
3	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	1.0	0.0	0.9	0.0	1.9
8 to 9	0.0	0.0	1.0	0.0	1.0
10 to 14	0.0	0.0	0.0	0.0	0.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	12.0	3.0	14.0	0.0	29.0

State Zone F/G Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	30.1	6.2	1.8	1.7	39.9
2	14.0	8.5	0.7	1.9	25.1
3	4.0	6.0	1.2	2.2	13.4
4	1.0	0.5	0.0	0.0	1.5
5 to 7	2.0	5.8	3.3	12.0	23.0
8 to 9	0.0	2.0	1.0	11.2	14.2
10 to 14	0.0	0.0	2.0	1.5	3.5
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.5	0.5
TOTAL	51.0	29.0	10.0	31.0	121.0

State Zone A/B Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	7.9	4.4	3.4	2.1	17.3
2	16.7	14.1	2.1	2.4	35.2
3	0.0	1.5	0.5	0.0	2.0
4	2.0	1.0	0.0	0.5	3.5
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	1.0	1.0	0.0	0.0	2.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	1.0	1.0
TOTAL	27.0	22.0	6.0	6.0	61.0

State Zone C/D Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	3.0	2.0	0.0	2.1	7.1
2	9.0	9.0	2.0	6.9	26.9
3	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	0.0	0.0	0.0	0.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	12.0	11.0	2.0	9.0	34.0

State Zone E Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	3.5	0.0	1.0	0.0	4.5
2	0.5	1.0	2.5	0.0	4.0
3	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	1.0	0.0	0.5	0.0	1.5
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	0.0	0.0	0.0	0.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	5.0	1.0	4.0	0.0	10.0

State Zone F/G Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	2.0	2.0	1.0	0.0	5.0
2	1.0	2.5	0.0	0.5	4.0
3	1.0	3.0	0.0	0.5	4.5
4	0.0	0.5	0.0	0.0	0.5
5 to 7	0.0	0.0	1.0	0.0	1.0
8 to 9	0.0	0.0	1.0	0.0	1.0
10 to 14	0.0	2.0	0.0	2.0	4.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	4.0	10.0	2.0	3.0	19.0

Zone A/B 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	7.0	7.0	1.0	1.0	16.0
3	1.0	0.0	0.0	0.0	1.0
4	1.0	0.0	0.0	0.0	1.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	2.0	1.0	1.0	0.0	4.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	11.0	8.0	2.0	1.0	22.0

Zone C/D 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	0.0	0.0	0.0	0.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	0.0	0.0	0.0	0.0

Zone E 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	1.0	0.0	0.0	0.0	1.0
3	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	0.0	0.0	0.0	0.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	1.0	0.0	0.0	1.0

Zone F/G 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	2.0	2.0	0.0	0.0	4.0
3	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	1.0	1.0	0.0	0.0	2.0
8 to 9	0.0	1.0	0.0	0.0	1.0
10 to 14	0.0	0.0	0.0	0.0	0.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	1.0	0.0	0.0	1.0
TOTAL	3.0	5.0	0.0	0.0	8.0

Zone A/B 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	0.0	1.0	0.0	0.0	1.0
3	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	0.0	0.0	0.0	0.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	1.0	0.0	0.0	1.0

Zone C/D 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	0.0	0.0	0.0	0.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	0.0	0.0	0.0	0.0

Zone E 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	0.0	1.0	0.0	0.0	1.0
3	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	0.0	0.0	0.0	0.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	1.0	0.0	0.0	1.0

Zone F/G 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	0.0	0.0	0.0	0.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	1.0	0.0	0.0	1.0
TOTAL	0.0	1.0	0.0	0.0	1.0

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Percentage of Respondents

State Zone A/B Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	26%	14%	8%	12%	60%
2	7%	14%	11%	5%	37%
3	0%	1%	0%	0%	1%
4	1%	0%	0%	0%	1%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	1%	0%	0%	1%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	34%	30%	19%	18%	100%

State Zone C/D Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	23%	16%	11%	10%	61%
2	5%	7%	9%	15%	36%
3	1%	0%	0%	0%	2%
4	0%	0%	1%	0%	1%
5 to 7	0%	0%	0%	1%	1%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	30%	23%	21%	26%	100%

State Zone E Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	94%	7%	20%	0%	61%
2	3%	3%	22%	0%	29%
3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%
5 to 7	3%	0%	3%	0%	6%
8 to 9	0%	0%	3%	0%	3%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	41%	10%	46%	0%	100%

State Zone F/G Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	29%	5%	2%	1%	9%
2	12%	7%	1%	2%	21%
3	3%	5%	1%	2%	11%
4	1%	0%	0%	0%	1%
5 to 7	2%	5%	3%	10%	19%
8 to 9	0%	2%	1%	9%	12%
10 to 14	0%	0%	2%	1%	3%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	42%	24%	8%	26%	100%

State Zone A/B Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	12%	7%	6%	3%	28%
2	27%	23%	3%	4%	58%
3	0%	2%	1%	0%	3%
4	3%	2%	0%	1%	6%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%
10 to 14	2%	2%	0%	0%	3%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	2%	2%
TOTAL	44%	36%	10%	10%	100%

State Zone C/D Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	9%	6%	0%	6%	21%
2	26%	26%	6%	20%	79%
3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	35%	32%	6%	26%	100%

State Zone E Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	99%	0%	10%	0%	45%
2	5%	10%	25%	0%	40%
3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%
5 to 7	10%	0%	5%	0%	15%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	50%	10%	40%	0%	100%

State Zone F/G Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	11%	11%	5%	0%	28%
2	5%	13%	0%	3%	21%
3	5%	16%	0%	3%	24%
4	0%	3%	0%	0%	3%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	5%	0%	5%
10 to 14	0%	11%	0%	11%	21%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	21%	53%	11%	16%	100%

Zone A/B 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	32%	32%	5%	5%	73%
3	5%	0%	0%	0%	5%
4	5%	0%	0%	0%	5%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%
10 to 14	9%	5%	5%	0%	18%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	50%	36%	9%	5%	100%

Zone C/D 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
5 to 7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
8 to 9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
10 to 14	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
15 to 19	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
20+	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
TOTAL	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Zone E 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	100%	0%	0%	0%	100%
3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	100%	0%	0%	0%	100%

Zone F/G 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	25%	25%	0%	0%	50%
3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%
5 to 7	13%	13%	0%	0%	25%
8 to 9	0%	13%	0%	0%	13%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	13%	0%	0%	13%
TOTAL	38%	63%	0%	0%	100%

Zone A/B 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	100%	0%	0%	100%
3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	0%	100%	0%	0%	100%

Zone C/D 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
5 to 7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
8 to 9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
10 to 14	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
15 to 19	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
20+	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
TOTAL	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Zone E 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	100%	0%	0%	100%
3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	0%	100%	0%	0%	100%

Zone F/G 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	0%	0%	0%	0%
3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	100%	0%	0%	100%
TOTAL	0%	100%	0%	0%	100%

SEPTEMBER

Number of Respondents

State Zone A/B Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	42.4	23.9	14.1	11.6	91.4	
2	15.6	24.2	16.8	11.7	68.2	
3	0.0	0.8	0.8	0.7	2.5	
4	1.0	0.7	0.9	0.0	2.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	1.0	2.0	0.0	0.0	3.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	60.0	51.0	32.0	24.0	167.0	

State Zone C/D Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	37.9	29.8	12.1	11.9	91.8	
2	5.6	17.9	13.9	26.7	63.5	
3	2.5	0.8	0.0	2.4	5.7	
4	0.0	0.0	1.0	0.0	1.0	
5 to 7	0.0	0.0	0.0	1.0	1.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	46.0	48.0	27.0	42.0	163.0	

State Zone E Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	9.0	1.0	5.8	0.0	15.8	
2	1.0	1.0	6.2	0.0	8.2	
3	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	1.0	1.0	0.0	2.0	
8 to 9	0.0	0.0	1.0	0.0	1.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	10.0	3.0	14.0	0.0	27.0	

State Zone F/G Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	29.2	6.0	2.8	0.7	38.7	
2	12.9	7.8	1.0	1.9	23.5	
3	4.0	6.0	1.2	3.2	14.4	
4	1.0	0.5	0.0	0.0	1.5	
5 to 7	2.0	9.8	3.0	9.0	23.7	
8 to 9	0.0	2.0	1.0	11.2	14.2	
10 to 14	0.0	0.0	2.0	1.5	3.5	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.5	0.5	
TOTAL	49.0	32.0	11.0	28.0	120.0	

State Zone A/B Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	7.3	4.5	3.4	2.1	17.3	
2	19.7	14.8	1.6	1.4	37.5	
3	2.0	1.7	0.0	0.0	3.7	
4	0.0	4.0	0.0	0.5	4.5	
5 to 7	0.0	1.0	0.0	0.0	1.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	1.0	2.0	0.0	0.0	3.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	1.0	1.0	
TOTAL	30.0	28.0	5.0	5.0	68.0	

State Zone C/D Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	9.0	3.5	0.0	1.7	14.2	
2	9.5	15.9	5.0	11.3	39.7	
3	0.5	0.1	0.0	0.0	0.6	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	7.0	19.0	5.0	13.0	44.0	

State Zone E Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	3.2	1.0	0.0	0.0	4.2	
2	0.8	1.0	2.5	0.0	4.3	
3	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	2.0	0.0	0.5	0.0	2.5	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	6.0	2.0	3.0	0.0	11.0	

State Zone F/G Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	3.0	2.0	0.0	0.0	5.0	
2	1.0	2.5	0.0	0.5	4.0	
3	0.0	3.0	0.0	0.5	3.5	
4	0.0	0.5	0.0	0.0	0.5	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	1.0	1.0	
10 to 14	0.0	2.0	1.0	1.0	4.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	4.0	10.0	1.0	3.0	18.0	

Zone A/B 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	11.0	8.0	1.0	1.0	21.0	
3	1.0	2.0	0.0	1.0	4.0	
4	4.0	0.0	0.0	1.0	5.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	2.0	1.0	0.0	3.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	16.0	12.0	2.0	3.0	33.0	

Zone C/D 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	
3	1.0	0.0	0.0	0.0	1.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	1.0	0.0	0.0	0.0	1.0	

Zone E 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	2.0	0.0	0.0	0.0	2.0	
3	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	2.0	0.0	0.0	0.0	2.0	

Zone F/G 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	1.0	3.0	0.0	0.0	4.0	
3	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	2.0	1.0	0.0	0.0	3.0	
8 to 9	0.0	1.0	0.0	0.0	1.0	
10 to 14	1.0	3.0	0.0	0.0	4.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	1.0	0.0	0.0	1.0	
TOTAL	4.0	9.0	0.0	0.0	13.0	

Zone A/B 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	0.0	1.0	0.0	0.0	1.0	
3	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.0	1.0	0.0	0.0	1.0	

Zone C/D 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	1.0	0.0	1.0	
3	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.0	0.0	1.0	0.0	1.0	

Zone E 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	1.0	1.0	0.0	0.0	2.0	
3	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	1.0	1.0	0.0	0.0	2.0	

Zone F/G 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	1.0	0.0	0.0	1.0	
TOTAL	0.0	1.0	0.0	0.0	1.0	

SEPTEMBER

Percentage of Responders

State Zone A/B Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	25%	14%	8%	7%	55%	
2	5%	14%	10%	7%	41%	
3	0%	1%	0%	0%	1%	
4	1%	0%	0%	0%	1%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	1%	1%	0%	0%	2%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	36%	31%	19%	14%	100%	

State Zone C/D Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	23%	18%	7%	7%	56%	
2	3%	11%	9%	10%	33%	
3	2%	1%	0%	1%	4%	
4	0%	0%	1%	0%	1%	
5 to 7	0%	0%	0%	1%	1%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	28%	23%	17%	26%	100%	

State Zone E Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	33%	4%	22%	0%	59%	
2	4%	4%	23%	0%	30%	
3	0%	0%	0%	0%	0%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	4%	4%	0%	7%	
8 to 9	0%	0%	4%	0%	4%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	37%	11%	52%	0%	100%	

State Zone F/G Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	24%	5%	2%	1%	32%	
2	11%	0%	1%	2%	14%	
3	3%	5%	1%	3%	12%	
4	1%	0%	0%	0%	1%	
5 to 7	2%	8%	2%	8%	20%	
8 to 9	0%	2%	1%	9%	12%	
10 to 14	0%	0%	2%	1%	3%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	41%	27%	9%	23%	100%	

State Zone A/B Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	11%	7%	5%	3%	25%	
2	29%	22%	2%	2%	55%	
3	3%	2%	0%	0%	5%	
4	0%	6%	0%	1%	7%	
5 to 7	0%	1%	0%	0%	1%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	1%	3%	0%	0%	4%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	1%	1%	
TOTAL	44%	41%	7%	7%	100%	

State Zone C/D Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	7%	8%	0%	4%	19%	
2	8%	35%	11%	26%	80%	
3	1%	0%	0%	0%	1%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	16%	43%	11%	30%	100%	

State Zone E Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	29%	9%	0%	0%	39%	
2	7%	9%	23%	0%	39%	
3	0%	0%	0%	0%	0%	
4	0%	0%	0%	0%	0%	
5 to 7	18%	0%	5%	0%	23%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	55%	18%	27%	0%	100%	

State Zone F/G Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	17%	11%	0%	0%	28%	
2	6%	14%	0%	3%	23%	
3	0%	17%	0%	3%	19%	
4	0%	3%	0%	0%	3%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	6%	6%	
10 to 14	0%	11%	6%	6%	22%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	22%	56%	6%	17%	100%	

Zone A/B 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	33%	24%	3%	3%	64%	
3	3%	6%	0%	3%	12%	
4	12%	0%	0%	3%	15%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	0%	3%	0%	3%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	48%	30%	6%	9%	100%	

Zone C/D 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	0%	0%	0%	0%	0%	
3	100%	0%	0%	0%	100%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	100%	0%	0%	0%	100%	

Zone E 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	100%	0%	0%	0%	100%	
3	0%	0%	0%	0%	0%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	100%	0%	0%	0%	100%	

Zone F/G 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	8%	23%	0%	0%	31%	
3	0%	0%	0%	0%	0%	
4	0%	0%	0%	0%	0%	
5 to 7	15%	8%	0%	0%	23%	
8 to 9	0%	8%	0%	0%	8%	
10 to 14	0%	23%	0%	0%	23%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	8%	0%	0%	8%	
TOTAL	31%	69%	0%	0%	100%	

Zone A/B 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	0%	100%	0%	0%	100%	
3	0%	0%	0%	0%	0%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	0%	100%	0%	0%	100%	

Zone C/D 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	0%	0%	100%	0%	100%	
3	0%	0%	0%	0%	0%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	0%	0%	100%	0%	100%	

Zone E 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	50%	50%	0%	0%	100%	
3	0%	0%	0%	0%	0%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	0%	0%	0%	0%	
TOTAL	50%	50%	0%	0%	100%	

Zone F/G 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0%	0%	0%	0%	0%	
2	0%	0%	0%	0%	0%	
3	0%	0%	0%	0%	0%	
4	0%	0%	0%	0%	0%	
5 to 7	0%	0%	0%	0%	0%	
8 to 9	0%	0%	0%	0%	0%	
10 to 14	0%	0%	0%	0%	0%	
15 to 19	0%	0%	0%	0%	0%	
20+	0%	100%	0%	0%	100%	
TOTAL	0%	100%	0%	0%	100%	

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Number of Respondents

State Zone A/B Exempt						
Traps per Trawl	Number of Traps per Vessel					TOTAL
	1 to 200	201 to 400	401 to 600	601+		
1	33.7	14.0	10.0	6.5		64.2
2	19.0	26.3	15.0	6.6		67.0
3	0.3	0.7	0.7	0.9		2.5
4	2.0	0.0	0.3	0.0		2.3
5 to 7	1.4	0.0	0.0	0.0		1.4
8 to 9	0.6	0.0	0.0	0.0		0.6
10 to 14	0.0	2.0	0.0	0.0		2.0
15 to 19	0.0	0.0	0.0	0.0		0.0
20+	0.0	0.0	0.0	0.0		0.0
TOTAL	57.0	43.0	26.0	14.0		140.0

State Zone C/D Exempt						
Traps per Trawl	Number of Traps per Vessel					TOTAL
	1 to 200	201 to 400	401 to 600	601+		
1	32.3	22.3	10.3	8.2		74.3
2	12.1	17.3	13.1	22.3		64.8
3	2.0	2.3	0.0	2.5		6.8
4	0.0	0.0	1.0	0.0		1.0
5 to 7	0.0	0.0	0.0	1.0		1.0
8 to 9	0.0	0.0	0.0	0.0		0.0
10 to 14	0.0	0.0	0.0	0.0		0.0
15 to 19	0.0	0.0	0.0	0.0		0.0
20+	0.0	0.0	0.0	0.0		0.0
TOTAL	47.0	42.0	25.0	34.0		148.0

State Zone E Exempt						
Traps per Trawl	Number of Traps per Vessel					TOTAL
	1 to 200	201 to 400	401 to 600	601+		
1	8.0	1.6	4.7	0.0		14.3
2	1.0	2.4	4.3	0.0		7.7
3	0.0	0.0	0.0	0.0		0.0
4	0.0	0.0	0.0	0.0		0.0
5 to 7	0.0	1.0	0.0	0.0		1.0
8 to 9	0.0	1.0	0.0	0.0		1.0
10 to 14	0.0	0.0	0.0	0.0		0.0
15 to 19	0.0	0.0	0.0	0.0		0.0
20+	0.0	0.0	0.0	0.0		0.0
TOTAL	9.0	6.0	9.0	0.0		24.0

State Zone F/G Exempt						
Traps per Trawl	Number of Traps per Vessel					TOTAL
	1 to 200	201 to 400	401 to 600	601+		
1	22.2	4.0	2.0	0.6		28.7
2	13.3	6.6	0.0	1.8		22.4
3	3.0	7.0	2.0	2.4		14.4
4	1.0	0.5	0.0	0.0		1.5
5 to 7	2.0	8.8	2.0	9.0		21.7
8 to 9	0.0	4.0	1.0	9.3		14.3
10 to 14	0.0	0.5	1.0	1.0		2.5
15 to 19	0.0	0.0	0.0	0.0		0.0
20+	0.0	0.5	0.0	1.0		1.5
TOTAL	42.0	32.0	8.0	25.0		107.0

State Zone A/B Non-Exempt						
Traps per Trawl	Number of Traps per Vessel					TOTAL
	1 to 200	201 to 400	401 to 600	601+		
1	7.5	3.4	2.6	2.6		16.1
2	18.5	19.0	0.7	2.4		40.6
3	3.0	1.6	0.0	0.0		4.6
4	0.0	4.0	0.7	0.0		4.7
5 to 7	0.5	0.0	2.0	0.0		2.5
8 to 9	0.0	0.0	0.0	0.0		0.0
10 to 14	0.5	1.0	0.0	0.0		1.5
15 to 19	0.0	0.0	0.0	0.0		0.0
20+	0.0	0.0	0.0	0.0		0.0
TOTAL	30.0	29.0	6.0	5.0		70.0

State Zone C/D Non-Exempt						
Traps per Trawl	Number of Traps per Vessel					TOTAL
	1 to 200	201 to 400	401 to 600	601+		
1	4.2	3.9	0.0	1.3		9.4
2	4.8	18.8	3.0	14.4		41.0
3	1.0	2.3	1.0	0.3		4.6
4	0.0	0.0	0.0	0.0		0.0
5 to 7	0.0	0.0	0.0	0.0		0.0
8 to 9	0.0	0.0	0.0	0.0		0.0
10 to 14	0.0	0.0	0.0	0.0		0.0
15 to 19	0.0	0.0	0.0	0.0		0.0
20+	0.0	0.0	0.0	0.0		0.0
TOTAL	10.0	25.0	4.0	16.0		55.0

State Zone E Non-Exempt						
Traps per Trawl	Number of Traps per Vessel					TOTAL
	1 to 200	201 to 400	401 to 600	601+		
1	1.5	1.5	0.0	0.0		3.0
2	1.5	1.5	1.5	0.0		4.5
3	0.0	0.0	0.0	0.0		0.0
4	0.0	0.0	0.0	0.0		0.0
5 to 7	2.0	0.7	0.5	0.0		2.5
8 to 9	0.0	0.0	0.0	0.0		0.0
10 to 14	0.0	0.0	0.0	0.0		0.0
15 to 19	0.0	0.0	0.0	0.0		0.0
20+	0.0	0.0	0.0	0.0		0.0
TOTAL	5.0	3.0	2.0	0.0		10.0

State Zone F/G Non-Exempt						
Traps per Trawl	Number of Traps per Vessel					TOTAL
	1 to 200	201 to 400	401 to 600	601+		
1	2.0	2.0	0.0	0.0		4.0
2	1.0	2.5	0.0	0.5		4.0
3	1.0	3.0	0.0	0.0		4.0
4	0.0	0.5	0.0	0.0		0.5
5 to 7	1.0	0.0	0.0	0.5		1.5
8 to 9	0.0	1.0	0.0	1.0		2.0
10 to 14	0.0	2.0	1.0	1.0		4.0
15 to 19	0.0	0.0	0.0	0.0		0.0
20+	0.0	0.0	0.0	0.0		0.0
TOTAL	5.0	11.0	1.0	3.0		20.0

Zone A/B 3-12 Miles						
Traps per Trawl	Number of Traps per Vessel					TOTAL
	1 to 200	201 to 400	401 to 600	601+		
1	0.0	0.0	0.0	0.0		0.0
2	9.8	11.0	2.0	1.0		23.8
3	1.3	2.3	0.0	2.0		6.1
4	2.0	2.0	0.0	2.0		6.0
5 to 7	0.0	1.1	0.0	0.0		1.1
8 to 9	0.0	0.0	0.0	0.0		0.0
10 to 14	0.0	1.0	2.0	0.0		3.0
15 to 19	0.0	0.0	0.0	0.0		0.0
20+	0.0	0.0	0.0	1.0		1.0
TOTAL	13.0	18.0	4.0	6.0		41.0

Zone C/D 3-12 Miles						
Traps per Trawl	Number of Traps per Vessel					TOTAL
	1 to 200	201 to 400	401 to 600	601+		
1	0.0	0.0	0.0	0.0		0.0
2	0.0	3.0	0.0	0.0		3.0
3	0.0	4.0	0.0	0.0		4.0
4	0.0	0.0	0.0	0.0		0.0
5 to 7	0.0	0.0	0.0	0.0		0.0
8 to 9	0.0	0.0	0.0	0.0		0.0
10 to 14	0.0	0.0	0.0	0.0		0.0
15 to 19	0.0	0.0	0.0	0.0		0.0
20+	0.0	0.0	0.0	0.0		0.0
TOTAL	1.0	7.0	0.0	0.0		8.0

Zone E 3-12 Miles						
Traps per Trawl	Number of Traps per Vessel					TOTAL
	1 to 200	201 to 400	401 to 600	601+		
1	0.0	0.0	0.0	0.0		0.0
2	2.0	1.0	0.0	0.0		3.0
3	0.0	0.0	0.0	0.0		0.0
4	0.0	0.0	0.0	0.0		0.0
5 to 7	1.0	0.0	1.0	0.0		2.0
8 to 9	1.0	0.0	0.0	0.0		1.0
10 to 14	0.0	1.0	0.0	0.0		1.0
15 to 19	0.0	0.0	0.0	0.0		0.0
20+	0.0	0.0	0.0	0.0		0.0
TOTAL	4.0	2.0	1.0	0.0		7.0

Zone F/G 3-12 Miles						
Traps per Trawl	Number of Traps per Vessel					TOTAL
	1 to 200	201 to 400	401 to 600	601+		
1	0.0	0.0	0.0	0.0		0.0
2	0.0	5.0	0.0	0.0		5.0
3	0.0	0.0	0.0	0.0		0.0
4	0.0	0.0	0.0	0.0		0.0
5 to 7	1.0	2.0	0.0	0.0		3.0
8 to 9	0.0	1.0	0.0	0.0		1.0
10 to 14	0.0	6.0	1.0	0.0		8.0
15 to 19	0.0	0.0	0.0	0.0		0.0
20+	0.0	1.0	0.0	0.0		1.0
TOTAL	2.0	15.0	1.0	0.0		18.0

Zone A/B 12+						
Traps per Trawl	Number of Traps per Vessel					TOTAL
	1 to 200	201 to 400	401 to 600	601+		
1	0.0	0.0	0.0	0.0		0.0
2	0.0	1.0	0.0	0.0		1.0
3	0.0	0.0	0.0	0.0		0.0
4	0.0	0.0	0.0	0.0		0.0
5 to 7	0.0	0.0	0.0	0.0		0.0
8 to 9	0.0	0.0	0.0	0.0		0.0
10 to 14	1.0	0.0	0.0	0.0		1.0
15 to 19	0.0	0.0	0.0	0.0		0.0
20+	0.0	0.0	0.0	0.0		0.0
TOTAL	1.0	1.0	0.0	0.0		2.0

Zone C/D 12+						
Traps per Trawl	Number of Traps per Vessel					TOTAL
	1 to 200	201 to 400	401 to 600	601+		
1	0.0	0.0	0.0	0.0		0.0
2	0.0	0.0	1.0	0.0		1.0
3	0.0	0.0	0.0	0.0		0.0
4	0.0	0.0	0.0	0.0		0.0
5 to 7	0.0	0.0	0.0	0.0		0.0
8 to 9	0.0	0.0	0.0	0.0		0.0
10 to 14	0.0	0.0	0.0	0.0		0.0
15 to 19	0.0	0.0	0.0	0.0		0.0
20+	0.0	0.0	0.0	0.0		0.0
TOTAL	0.0	0.0	1.0	0.0		1.0

Zone E 12+						
Traps per Trawl	Number of Traps per Vessel					TOTAL
	1 to 200	201 to 400	401 to 600	601+		
1	0.0	0.0	0.0	0.0		0.0
2	1.0	1.0	0.0	0.0		2.0
3	0.0	0.0	0.0	0.0		0.0
4	0.0	0.0	0.0	0.0		0.0
5 to 7	0.0	0.0	0.0	0.0		0.0
8 to 9	0.0	0.0	0.0	0.0		0.0
10 to 14	0.0	0.0	0.0	0.0		0.0
15 to 19	0.0	0.0	0.0	0.0		0.0
20+	0.0	0.0	0.0	0.0		0.0
TOTAL	1.0	1.0	0.0	0.0		2.0

Zone F/G 12+						
Traps per Trawl	Number of Traps per Vessel					TOTAL
	1 to 200	201 to 400	401 to 600	601+		
1	0.0	0.0	0.0	0.0		0.0
2	0.0	0.0	0.0	0.0		0.0
3	0.0	0.0	0.0	0.0		0.0
4	0.0	0.0	0.0	0.0		0.0
5 to 7	0.0	0.0	0.0	0.0		0.0
8 to 9	0.0	0.0	0.0	0.0		0.0
10 to 14	0.0	0.0	0.0	0.0		0.0
15 to 19	0.0	0.0	0.0	0.0		0.0
20+	0.0	0.0	0.0	0.0		0.0
TOTAL	0.0	0.0	0.0	0.0		0.0

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Percentage of Respondents

State Zone A/B Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	24%	10%	7%	5%	46%
2	14%	19%	11%	5%	48%
3	0%	0%	0%	1%	2%
4	1%	0%	0%	0%	2%
5 to 7	1%	0%	0%	0%	1%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	1%	0%	0%	1%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	41%	31%	19%	10%	100%

State Zone C/D Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	22%	15%	7%	6%	50%
2	8%	12%	9%	15%	44%
3	1%	2%	0%	2%	5%
4	0%	0%	1%	0%	1%
5 to 7	0%	0%	0%	1%	1%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	32%	28%	17%	23%	100%

State Zone E Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	33%	7%	20%	0%	60%
2	4%	10%	18%	0%	32%
3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%
5 to 7	0%	4%	0%	0%	4%
8 to 9	0%	4%	0%	0%	4%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	38%	25%	38%	0%	100%

State Zone F/G Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	21%	4%	2%	1%	27%
2	13%	6%	0%	2%	21%
3	3%	7%	2%	2%	13%
4	1%	0%	0%	0%	1%
5 to 7	2%	8%	2%	8%	20%
8 to 9	0%	4%	1%	9%	13%
10 to 14	0%	0%	0%	1%	2%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	39%	30%	7%	23%	100%

State Zone A/B Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	11%	9%	4%	4%	29%
2	26%	27%	1%	3%	58%
3	4%	2%	0%	0%	7%
4	0%	0%	1%	0%	2%
5 to 7	1%	0%	3%	0%	4%
8 to 9	0%	0%	0%	0%	0%
10 to 14	1%	0%	0%	0%	2%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	43%	41%	9%	7%	100%

State Zone C/D Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	8%	7%	0%	2%	17%
2	9%	34%	5%	26%	75%
3	2%	4%	2%	1%	8%
4	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	18%	45%	7%	29%	100%

State Zone E Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	15%	15%	0%	0%	30%
2	15%	15%	15%	0%	45%
3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%
5 to 7	20%	0%	5%	0%	25%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	50%	30%	20%	0%	100%

State Zone F/G Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	10%	10%	0%	0%	20%
2	5%	13%	0%	0%	20%
3	5%	15%	0%	0%	20%
4	0%	3%	0%	0%	3%
5 to 7	5%	0%	0%	0%	8%
8 to 9	0%	5%	0%	0%	10%
10 to 14	0%	10%	5%	5%	20%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	25%	55%	5%	15%	100%

Zone A/B 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	24%	27%	5%	2%	58%
3	3%	7%	0%	5%	15%
4	5%	5%	0%	5%	15%
5 to 7	0%	3%	0%	0%	3%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	2%	5%	0%	7%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	2%	2%
TOTAL	32%	44%	10%	15%	100%

Zone C/D 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	37%	0%	0%	37%
3	0%	51%	0%	0%	51%
4	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%
10 to 14	13%	0%	0%	0%	13%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	13%	88%	0%	0%	100%

Zone E 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	23%	14%	0%	0%	43%
3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%
5 to 7	14%	0%	14%	0%	29%
8 to 9	14%	0%	0%	0%	14%
10 to 14	0%	14%	0%	0%	14%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	57%	29%	14%	0%	100%

Zone F/G 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	25%	0%	0%	25%
3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%
5 to 7	6%	11%	0%	0%	17%
8 to 9	0%	6%	0%	0%	6%
10 to 14	6%	33%	6%	0%	44%
15 to 19	0%	0%	0%	0%	0%
20+	0%	6%	0%	0%	6%
TOTAL	11%	83%	6%	0%	100%

Zone A/B 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	50%	0%	0%	50%
3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%
10 to 14	50%	0%	0%	0%	50%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	50%	50%	0%	0%	100%

Zone C/D 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	0%	100%	0%	100%
3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	0%	0%	100%	0%	100%

Zone E 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	50%	50%	0%	0%	100%
3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	50%	50%	0%	0%	100%

Zone F/G 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
5 to 7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
8 to 9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
10 to 14	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
15 to 19	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
20+	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
TOTAL	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

NOVEMBER
Number of Respondents

State Zone A/B Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	10.6	5.2	6.4	9.9	25.2
2	20.3	18.8	9.9	2.1	52.0
3	1.1	1.0	0.7	0.0	2.8
4	1.0	0.0	0.0	0.0	1.0
5 to 7	0.4	0.0	0.0	0.0	0.4
8 to 9	0.6	0.0	0.0	0.0	0.6
10 to 14	0.0	2.0	0.0	0.0	2.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	1.0	0.0	0.0	1.0
TOTAL	34.0	29.0	17.0	6.0	86.0

State Zone C/D Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	18.1	18.9	2.4	2.3	39.7
2	8.4	18.0	13.6	11.9	51.9
3	0.5	1.1	0.0	1.5	3.1
4	0.0	0.0	1.0	0.0	1.0
5 to 7	0.0	0.0	0.0	1.0	1.0
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	0.0	0.0	0.0	0.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	27.0	36.0	17.0	16.0	96.0

State Zone E Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	2.0	0.5	3.6	0.0	6.1
2	1.0	1.5	4.4	0.0	6.9
3	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	1.0	0.0	0.0	0.0	1.0
8 to 9	1.0	0.0	0.0	0.0	1.0
10 to 14	0.0	0.0	0.0	0.0	0.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	5.0	2.0	8.0	0.0	15.0

State Zone F/G Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	7.3	3.0	0.0	0.4	10.7
2	7.8	4.8	0.0	1.7	14.2
3	2.0	7.0	2.0	1.5	12.5
4	0.0	0.5	0.0	0.0	0.5
5 to 7	6.0	3.8	1.0	9.1	19.8
8 to 9	0.0	1.0	2.0	7.9	10.9
10 to 14	0.0	1.0	0.0	1.0	2.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	1.0	1.0
TOTAL	23.0	21.0	5.0	22.0	71.0

State Zone A/B Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	3.7	0.5	0.0	0.0	4.2
2	17.7	18.9	0.7	2.1	39.3
3	3.7	0.7	0.3	0.0	4.7
4	0.0	4.5	0.0	0.9	5.4
5 to 7	0.5	0.0	2.0	0.0	2.5
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.5	1.0	0.0	0.0	1.5
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	26.0	20.0	3.0	3.0	52.0

State Zone C/D Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	2.2	0.5	0.0	1.0	3.7
2	9.8	18.2	1.0	14.9	37.2
3	2.0	2.3	1.0	0.3	6.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	0.0	0.0	0.0	0.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	8.0	21.0	2.0	16.0	47.0

State Zone E Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	3.0	0.0	0.0	0.0	3.0
2	1.0	1.0	1.5	0.0	3.5
3	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	1.0	0.5	0.0	1.5
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	0.0	0.0	0.0	0.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	4.0	2.0	2.0	0.0	8.0

State Zone F/G Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	2.0	0.0	0.0	2.0
2	1.0	2.5	0.0	0.0	3.5
3	0.0	0.0	0.0	0.0	0.0
4	0.0	0.3	0.0	0.0	0.3
5 to 7	1.0	1.0	0.0	0.0	2.0
8 to 9	0.0	2.0	0.0	0.0	2.0
10 to 14	0.0	0.0	0.0	1.0	1.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	2.0	17.0	0.0	1.0	20.0

Zone A/B 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	7.2	8.0	3.0	4.1	22.3
3	0.8	3.8	1.0	0.9	6.4
4	0.0	4.7	0.0	2.0	6.7
5 to 7	0.0	0.5	1.0	1.0	2.5
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	2.0	1.0	0.0	3.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	1.0	0.0	1.0	2.0
TOTAL	8.0	20.0	6.0	9.0	43.0

Zone C/D 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	0.5	1.6	3.5	2.0	7.6
3	0.5	6.4	1.5	0.0	8.4
4	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	1.0	0.0	0.0	1.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	1.0	1.0
TOTAL	1.0	9.0	5.0	3.0	18.0

Zone E 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	3.0	1.0	0.0	0.0	4.0
3	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	1.0	1.0	0.0	2.0
8 to 9	0.0	1.0	0.0	0.0	1.0
10 to 14	0.0	1.0	0.0	0.0	1.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	3.0	4.0	1.0	0.0	8.0

Zone F/G 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	1.0	3.0	1.0	0.0	5.0
3	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	2.0	1.0	0.0	0.0	3.0
8 to 9	0.0	2.0	0.0	1.0	3.0
10 to 14	1.0	3.0	3.0	0.0	7.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	1.0	1.0
TOTAL	4.0	9.0	4.0	2.0	19.0

Zone A/B 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	0.0	1.0	0.0	0.0	1.0
3	0.0	0.0	0.0	0.0	0.0
4	0.0	1.0	0.0	0.0	1.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	2.0	0.0	0.0	2.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	1.0	0.0	1.0	2.0
TOTAL	0.0	5.0	0.0	1.0	6.0

Zone C/D 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	1.0	1.0
3	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	1.0	0.0	0.0	0.0	1.0
10 to 14	0.0	0.0	0.0	0.0	0.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	1.0	0.0	0.0	1.0	2.0

Zone E 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	2.0	1.0	0.0	0.0	3.0
3	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	0.0	0.0	0.0	0.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	2.0	1.0	0.0	0.0	3.0

Zone F/G 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	0.0	0.0	0.0	0.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	0.0	0.0	0.0	0.0

NOVEMBER

Percentage of Respondents

State Zone A/B Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	12%	6%	7%	5%	30%
2	24%	23%	11%	2%	61%
3	1%	1%	1%	0%	3%
4	1%	0%	0%	0%	1%
5 to 7	0%	0%	0%	0%	0%
8 to 9	1%	0%	0%	0%	1%
10 to 14	0%	2%	0%	0%	2%
15 to 19	0%	0%	0%	0%	0%
20+	0%	1%	0%	0%	1%
TOTAL	40%	34%	20%	7%	100%

State Zone C/D Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	1%	18%	3%	2%	41%
2	9%	19%	14%	12%	53%
3	0%	1%	0%	2%	3%
4	0%	0%	1%	0%	1%
5 to 7	0%	0%	0%	1%	1%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	28%	37%	18%	17%	100%

State Zone E Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	13%	3%	24%	0%	41%
2	7%	10%	29%	0%	46%
3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%
5 to 7	7%	0%	0%	0%	7%
8 to 9	7%	0%	0%	0%	7%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	33%	13%	53%	0%	100%

State Zone F/G Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	10%	4%	0%	1%	15%
2	11%	7%	0%	2%	20%
3	3%	10%	3%	2%	18%
4	0%	1%	0%	0%	1%
5 to 7	8%	9%	1%	1%	28%
8 to 9	0%	1%	3%	10%	15%
10 to 14	0%	1%	0%	1%	3%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	1%	1%
TOTAL	32%	30%	7%	31%	100%

State Zone A/B Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	7%	1%	0%	0%	8%
2	34%	26%	1%	4%	65%
3	7%	1%	1%	0%	9%
4	0%	9%	0%	2%	10%
5 to 7	1%	0%	4%	0%	5%
8 to 9	0%	0%	0%	0%	0%
10 to 14	1%	2%	0%	0%	3%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	50%	36%	6%	6%	100%

State Zone C/D Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	5%	1%	0%	2%	8%
2	8%	39%	2%	30%	79%
3	4%	5%	2%	2%	13%
4	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	17%	43%	4%	34%	100%

State Zone E Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	36%	0%	0%	0%	36%
2	13%	13%	19%	0%	44%
3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%
5 to 7	0%	13%	6%	0%	19%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	50%	25%	25%	0%	100%

State Zone F/G Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	10%	0%	0%	10%
2	9%	13%	0%	0%	18%
3	0%	30%	0%	0%	30%
4	0%	3%	0%	0%	3%
5 to 7	5%	5%	0%	0%	10%
8 to 9	0%	10%	0%	0%	10%
10 to 14	0%	15%	0%	5%	20%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	10%	63%	0%	5%	100%

Zone A/B 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	17%	19%	7%	10%	52%
3	2%	9%	2%	2%	15%
4	0%	11%	0%	5%	16%
5 to 7	0%	1%	2%	2%	6%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	5%	2%	0%	7%
15 to 19	0%	0%	0%	0%	0%
20+	0%	2%	0%	2%	5%
TOTAL	19%	47%	14%	21%	100%

Zone C/D 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	3%	9%	19%	11%	42%
3	3%	39%	8%	0%	47%
4	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	6%	0%	0%	6%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	6%	6%
TOTAL	6%	50%	28%	17%	100%

Zone E 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	38%	13%	0%	0%	50%
3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%
5 to 7	0%	13%	13%	0%	25%
8 to 9	0%	13%	0%	0%	13%
10 to 14	0%	13%	0%	0%	13%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	38%	50%	13%	0%	100%

Zone F/G 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	9%	16%	5%	0%	28%
3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%
5 to 7	11%	5%	0%	0%	16%
8 to 9	0%	11%	0%	5%	16%
10 to 14	9%	16%	16%	0%	37%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	5%	5%
TOTAL	21%	47%	21%	11%	100%

Zone A/B 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	17%	0%	0%	17%
3	0%	0%	0%	0%	0%
4	0%	17%	0%	0%	17%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	39%	0%	0%	39%
15 to 19	0%	0%	0%	0%	0%
20+	0%	17%	0%	17%	33%
TOTAL	0%	33%	0%	17%	100%

Zone C/D 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	0%	0%	50%	50%
3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%
8 to 9	50%	0%	0%	0%	50%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	50%	0%	0%	50%	100%

Zone E 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	67%	33%	0%	0%	100%
3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	67%	33%	0%	0%	100%

Zone F/G 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
5 to 7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
8 to 9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
10 to 14	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
15 to 19	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
20+	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
TOTAL	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

DECEMBER

Number of Respondents

State Zone A/B Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	3.9	3.6	0.6	1.0	9.0	
2	11.1	7.1	3.4	0.0	21.6	
3	0.0	0.4	0.0	0.0	0.4	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	1.0	0.0	0.0	1.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	1.0	0.0	0.0	1.0	
TOTAL	15.0	13.0	4.0	1.0	33.0	

State Zone C/D Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	2.6	6.3	1.0	1.0	10.9	
2	7.0	12.7	5.5	3.0	28.2	
3	0.4	0.0	0.5	1.0	1.9	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	10.0	19.0	7.0	5.0	41.0	

State Zone E Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	2.0	1.8	1.5	0.0	5.3	
2	1.0	3.2	0.5	0.0	4.7	
3	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	3.0	5.0	2.0	0.0	10.0	

State Zone F/G Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	1.0	1.5	0.0	0.2	2.7	
2	3.0	1.1	0.0	0.1	4.2	
3	1.0	4.0	0.0	0.0	5.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	2.0	1.4	1.0	3.3	7.8	
8 to 9	0.0	0.0	2.0	3.3	5.3	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	1.0	1.0	
TOTAL	7.0	8.0	3.0	8.0	26.0	

State Zone A/B Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.3	0.0	0.0	0.0	0.3	
2	15.7	7.9	0.7	2.0	26.3	
3	4.0	0.4	0.3	0.0	4.6	
4	1.0	2.7	1.0	0.0	4.7	
5 to 7	0.5	1.0	1.0	0.0	2.5	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.5	1.0	0.0	0.0	1.5	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	22.0	13.0	3.0	2.0	40.0	

State Zone C/D Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	2.2	0.3	0.0	0.0	2.5	
2	4.9	10.5	2.2	7.0	24.6	
3	1.9	3.2	1.8	0.0	7.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	9.0	14.0	4.0	7.0	34.0	

State Zone E Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	2.0	0.0	0.0	0.0	2.0	
2	0.0	1.0	0.5	0.0	1.5	
3	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	1.0	0.5	0.0	1.5	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	2.0	2.0	1.0	0.0	5.0	

State Zone F/G Non-Exempt						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	2.0	0.0	2.0	2.0	
2	1.0	2.0	0.0	3.0	3.0	
3	0.0	3.0	0.2	3.2	3.2	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	1.0	0.0	0.0	1.0	1.0	
8 to 9	0.0	0.0	1.0	1.0	1.0	
10 to 14	0.0	3.0	0.8	3.8	3.8	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	1.0	1.0	1.0	
TOTAL	2.0	10.0	3.0	15.0	15.0	

Zone A/B 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	5.0	7.6	2.0	3.6	18.2	
3	0.0	2.1	0.3	0.4	2.8	
4	0.0	3.0	0.7	2.7	6.4	
5 to 7	0.0	0.8	1.0	1.0	2.8	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	2.0	1.0	1.0	0.0	4.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	1.4	0.0	1.3	2.7	
TOTAL	7.0	16.0	5.0	9.0	37.0	

Zone C/D 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	0.5	2.5	1.8	3.0	7.8	
3	0.5	3.5	3.2	2.0	9.2	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	1.0	1.0	0.0	0.0	2.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	1.0	1.0	
TOTAL	2.0	7.0	5.0	6.0	20.0	

Zone E 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	2.0	0.0	1.0	0.0	3.0	
3	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	1.0	1.0	0.0	2.0	
8 to 9	0.0	1.0	0.0	0.0	1.0	
10 to 14	1.0	0.0	0.0	0.0	1.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	3.0	2.0	2.0	0.0	7.0	

Zone F/G 3-12 Miles						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	0.0	4.0	0.0	1.0	5.0	
3	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	2.0	0.0	0.0	0.0	2.0	
8 to 9	0.0	1.0	0.0	1.0	2.0	
10 to 14	1.0	3.0	1.0	2.0	7.0	
15 to 19	0.0	1.0	0.0	0.0	1.0	
20+	0.0	0.0	0.0	1.0	1.0	
TOTAL	3.0	9.0	1.0	5.0	18.0	

Zone A/B 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	1.0	0.3	1.3	
3	0.0	0.0	0.0	0.8	0.8	
4	1.0	1.0	0.0	0.0	2.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	0.0	0.0	0.0	0.0	0.0	
10 to 14	0.0	2.0	0.0	0.0	2.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	1.0	0.0	1.0	2.0	
TOTAL	1.0	4.0	1.0	2.0	8.0	

Zone C/D 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	0.0	1.0	1.0	0.0	2.0	
3	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	1.0	0.0	0.0	0.0	1.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	1.0	1.0	1.0	0.0	3.0	

Zone E 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	2.0	0.0	0.0	0.0	2.0	
3	0.0	1.0	0.0	0.0	1.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	0.0	0.0	0.0	0.0	0.0	
8 to 9	1.0	0.0	0.0	0.0	1.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	3.0	1.0	0.0	0.0	4.0	

Zone F/G 12+						
Number of Traps per Vessel						
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL	
1	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	
5 to 7	1.0	0.0	0.0	0.0	1.0	
8 to 9	0.0	1.0	0.0	0.0	1.0	
10 to 14	0.0	0.0	0.0	0.0	0.0	
15 to 19	0.0	0.0	0.0	0.0	0.0	
20+	0.0	0.0	0.0	0.0	0.0	
TOTAL	1.0	1.0	0.0	0.0	2.0	

DECEMBER

Percentage of Respondents

State Zone A/B Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	12%	11%	2%	3%	27%
2	34%	21%	10%	0%	66%
3	0%	1%	0%	0%	1%
4	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	3%	0%	0%	3%
15 to 19	0%	0%	0%	0%	0%
20+	0%	3%	0%	0%	3%
TOTAL	45%	39%	12%	3%	100%

State Zone C/D Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	6%	15%	2%	2%	27%
2	17%	31%	13%	7%	69%
3	1%	0%	1%	2%	5%
4	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	24%	46%	17%	12%	100%

State Zone E Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	20%	18%	15%	0%	53%
2	10%	32%	5%	0%	47%
3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	30%	50%	20%	0%	100%

State Zone F/G Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	4%	6%	0%	1%	10%
2	12%	4%	0%	0%	16%
3	4%	15%	0%	0%	19%
4	0%	0%	0%	0%	0%
5 to 7	8%	5%	4%	1%	30%
8 to 9	0%	0%	8%	1%	21%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	4%	4%
TOTAL	27%	31%	12%	31%	100%

State Zone A/B Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	1%	0%	0%	0%	1%
2	39%	20%	2%	5%	66%
3	10%	1%	1%	0%	12%
4	2%	7%	2%	0%	12%
5 to 7	1%	2%	2%	0%	6%
8 to 9	0%	0%	0%	0%	0%
10 to 14	1%	2%	0%	0%	4%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	55%	32%	7%	5%	100%

State Zone C/D Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	6%	1%	0%	0%	7%
2	14%	31%	6%	21%	72%
3	6%	9%	5%	0%	21%
4	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	26%	41%	12%	21%	100%

State Zone E Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	40%	0%	0%	0%	40%
2	0%	20%	10%	0%	30%
3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%
5 to 7	0%	20%	10%	0%	30%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	40%	40%	20%	0%	100%

State Zone F/G Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	13%	0%	1%	27%
2	7%	13%	0%	20%	40%
3	0%	0%	20%	1%	49%
4	0%	0%	0%	0%	0%
5 to 7	7%	0%	0%	7%	13%
8 to 9	0%	0%	7%	7%	13%
10 to 14	0%	20%	5%	25%	51%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	7%	7%	13%
TOTAL	13%	67%	20%	100%	200%

Zone A/B 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	14%	21%	5%	10%	49%
3	0%	6%	1%	1%	8%
4	0%	8%	2%	7%	17%
5 to 7	0%	2%	3%	3%	8%
8 to 9	0%	0%	0%	0%	0%
10 to 14	5%	3%	3%	0%	11%
15 to 19	0%	0%	0%	0%	0%
20+	0%	4%	0%	3%	7%
TOTAL	19%	43%	14%	24%	100%

Zone C/D 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	3%	13%	9%	15%	39%
3	3%	18%	16%	10%	46%
4	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%
10 to 14	5%	5%	0%	0%	10%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	5%	5%
TOTAL	10%	35%	25%	30%	100%

Zone E 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	29%	0%	14%	0%	43%
3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%
5 to 7	0%	14%	14%	0%	29%
8 to 9	0%	14%	0%	0%	14%
10 to 14	14%	0%	0%	0%	14%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	43%	29%	29%	0%	100%

Zone F/G 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	22%	0%	6%	28%
3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%
5 to 7	11%	0%	0%	0%	11%
8 to 9	0%	6%	0%	6%	11%
10 to 14	6%	17%	6%	11%	39%
15 to 19	0%	6%	0%	0%	6%
20+	0%	0%	0%	6%	6%
TOTAL	17%	50%	6%	28%	100%

Zone A/B 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	0%	13%	3%	16%
3	0%	0%	0%	3%	3%
4	13%	13%	0%	0%	25%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	25%	0%	0%	25%
15 to 19	0%	0%	0%	0%	0%
20+	0%	13%	0%	13%	25%
TOTAL	13%	50%	13%	25%	100%

Zone C/D 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	33%	33%	0%	67%
3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%
8 to 9	33%	0%	0%	0%	33%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	33%	33%	33%	0%	100%

Zone E 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	50%	0%	0%	0%	50%
3	0%	25%	0%	0%	25%
4	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%
8 to 9	25%	0%	0%	0%	25%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	75%	25%	0%	0%	100%

Zone F/G 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	0%	0%	0%	0%
3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%
5 to 7	50%	0%	0%	0%	50%
8 to 9	0%	50%	0%	0%	50%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	50%	50%	0%	0%	100%

ALL MONTHS

Number of Respondents

State Zone A/B Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	240.4	118.3	76.8	69.5	505.0
2	160.1	181.9	102.1	50.0	494.1
3	4.4	6.3	3.0	2.1	15.8
4	11.0	3.5	1.1	0.5	16.1
5 to 7	1.8	0.0	0.0	0.0	1.8
8 to 9	1.2	0.0	0.0	0.0	1.2
10 to 14	1.0	17.0	0.0	0.0	18.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	3.0	0.0	0.0	3.0
TOTAL	420.0	380.0	183.0	122.0	1095.0

State Zone C/D Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	229.8	173.2	76.2	66.4	545.6
2	71.9	135.1	98.9	141.7	447.6
3	9.3	6.7	0.5	8.9	25.8
4	0.0	0.0	5.0	0.0	5.0
5 to 7	0.0	0.0	0.0	6.0	6.0
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	0.0	0.0	0.0	0.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	311.0	315.0	181.0	223.0	1030.0

State Zone E Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	59.0	12.6	34.6	0.0	106.1
2	15.0	17.0	33.7	0.0	65.7
3	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	3.0	3.5	2.7	0.0	9.2
8 to 9	1.0	1.0	2.0	0.0	4.0
10 to 14	0.0	0.0	0.0	0.0	0.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	1.0	0.0	0.0	0.0	1.0
TOTAL	79.0	34.0	73.0	0.0	186.0

State Zone F/G Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1.0	158.9	36.0	9.3	7.1	211.2
2.0	96.5	44.4	5.6	10.2	156.6
3.0	28.0	50.0	8.3	13.7	100.0
4.0	4.0	2.5	0.0	0.0	6.5
5 to 7	32.4	44.2	19.3	61.5	157.5
8 to 9	2.2	17.9	12.5	60.5	83.1
10 to 14	1.0	2.5	7.0	8.5	19.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.5	0.0	7.5	8.0
TOTAL	323.0	198.0	62.0	169.0	752.0

State Zone A/B Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	45.1	24.7	12.8	10.5	93.1
2	156.1	119.4	18.4	18.3	302.1
3	24.8	7.8	1.2	0.4	34.0
4	11.0	21.2	1.7	1.9	35.7
5 to 7	3.5	2.0	5.0	0.0	10.5
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	7.5	11.0	0.0	0.0	18.5
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	1.0	0.0	2.0	3.0
TOTAL	248.0	187.0	39.0	28.0	502.0

State Zone C/D Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	22.5	14.9	0.5	12.8	50.7
2	52.8	127.9	19.7	88.1	288.4
3	12.7	14.3	5.8	2.1	34.9
4	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	0.0	0.0	0.0	0.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	88.0	157.0	26.0	103.0	374.0

State Zone E Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	20.7	2.5	4.0	0.0	27.2
2	13.3	6.5	14.5	0.0	34.3
3	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	12.0	2.0	4.5	0.0	18.5
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	0.0	0.0	0.0	0.0	0.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	46.0	11.0	23.0	0.0	80.0

State Zone F/G Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	16.0	20.0	1.0	0.0	37.0
2	18.0	23.5	1.0	2.0	44.5
3	2.0	32.0	0.0	1.7	35.7
4	0.0	2.5	0.0	0.0	2.5
5 to 7	3.0	1.0	0.0	0.5	4.5
8 to 9	1.0	5.0	1.0	3.0	10.0
10 to 14	1.0	20.0	4.0	10.8	35.8
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	1.0	1.0
TOTAL	41.0	104.0	7.0	15.0	171.0

Zone A/B 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	77.9	62.8	10.5	14.7	166.0
3	12.1	22.1	2.8	6.5	43.4
4	19.0	16.2	6.9	15.5	57.6
5 to 7	1.0	6.8	5.5	2.0	15.3
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	6.0	17.0	13.0	1.0	37.0
15 to 19	3.0	0.0	0.0	0.0	3.0
20+	1.0	7.1	2.3	3.3	13.7
TOTAL	120.0	132.0	41.0	43.0	336.0

Zone C/D 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	5.5	21.1	9.8	6.8	43.1
3	8.5	33.9	10.2	7.0	59.6
4	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	4.0	4.0	0.0	2.9	10.9
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	1.0	4.0	2.0	7.0
TOTAL	18.0	60.0	24.0	18.0	120.0

Zone E 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	24.0	2.0	1.0	0.0	27.0
3	0.0	0.7	0.0	0.0	0.7
4	0.0	0.0	0.0	0.0	0.0
5 to 7	4.0	5.0	3.0	0.0	18.0
8 to 9	1.0	6.0	3.0	0.0	10.0
10 to 14	1.0	2.9	0.0	0.0	3.9
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	30.0	16.0	13.0	0.0	59.0

Zone F/G 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	8.0	30.0	2.0	1.0	41.0
3	0.0	3.2	0.0	0.0	3.2
4	0.0	0.0	0.0	0.0	0.0
5 to 7	15.0	5.0	1.0	0.0	21.0
8 to 9	1.0	14.0	3.0	2.0	20.0
10 to 14	1.0	20.8	6.0	4.0	40.8
15 to 19	0.0	1.0	1.0	0.0	2.0
20+	0.0	8.0	1.0	6.0	15.0
TOTAL	34.0	82.0	14.0	13.0	143.0

Zone A/B 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	0.0	6.0	6.0	4.0	16.0
3	0.0	0.0	0.0	3.0	3.0
4	5.0	2.0	3.0	0.0	10.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	0.0	0.0	0.0	0.0	0.0
10 to 14	1.0	9.0	1.0	0.0	11.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	6.0	0.0	8.0	14.0
TOTAL	6.0	23.0	10.0	15.0	54.0

Zone C/D 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	0.0	6.0	3.0	3.0	12.0
3	0.0	5.0	0.0	0.0	5.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	7.0	0.0	0.0	0.0	7.0
10 to 14	0.0	1.0	0.0	0.0	1.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	3.0	1.0	0.0	1.0	5.0
TOTAL	10.0	13.0	3.0	4.0	30.0

Zone E 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	0.0
2	13.0	6.0	0.0	0.0	19.0
3	0.0	1.0	0.0	0.0	1.0
4	0.0	0.0	0.0	0.0	0.0
5 to 7	0.0	0.0	0.0	0.0	0.0
8 to 9	6.0	0.0	0.0	0.0	6.0
10 to 14	4.0	0.0	0.0	0.0	4.0
15 to 19	0.0	0.0	0.0	0.0	0.0
20+	0.0	0.0	0.0	0.0	0.0
TOTAL	23.0	7.0	0.0	0.0	30.0

Zone F/G 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0.0	0.0	0.0	0.0	

ALL MONTHS
Percentage of Respondents

State Zone A/B Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	23%	11%	7%	7%	48%
2	15%	17%	10%	5%	47%
3	0%	1%	0%	0%	1%
4	1%	0%	0%	0%	2%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	2%	0%	0%	2%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	40%	31%	17%	12%	100%

State Zone C/D Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	22%	17%	7%	6%	53%
2	7%	13%	10%	14%	43%
3	1%	1%	0%	1%	3%
4	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	1%	1%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	30%	31%	18%	22%	100%

State Zone E Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	32%	7%	19%	0%	57%
2	8%	9%	18%	0%	35%
3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%
5 to 7	2%	2%	1%	0%	5%
8 to 9	1%	1%	1%	0%	2%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	1%	0%	0%	0%	1%
TOTAL	42%	18%	39%	0%	100%

State Zone F/G Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	21%	5%	1%	1%	28%
2	13%	6%	1%	1%	21%
3	4%	7%	1%	2%	13%
4	1%	0%	0%	0%	1%
5 to 7	4%	6%	3%	8%	21%
8 to 9	0%	2%	2%	8%	12%
10 to 14	0%	0%	1%	1%	3%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	1%	1%
TOTAL	43%	26%	8%	22%	100%

State Zone A/B Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	9%	5%	3%	2%	19%
2	31%	24%	4%	3%	61%
3	5%	2%	0%	0%	7%
4	2%	4%	0%	0%	7%
5 to 7	1%	0%	1%	0%	2%
8 to 9	0%	0%	0%	0%	0%
10 to 14	1%	2%	0%	0%	4%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	1%
TOTAL	49%	37%	8%	6%	100%

State Zone C/D Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	6%	4%	0%	3%	14%
2	14%	34%	5%	24%	77%
3	3%	4%	2%	1%	9%
4	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	24%	42%	7%	28%	100%

State Zone E Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	26%	3%	5%	0%	34%
2	17%	8%	18%	0%	43%
3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%
5 to 7	15%	3%	6%	0%	23%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	57%	14%	29%	0%	100%

State Zone F/G Non-Exempt					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	9%	12%	1%	0%	22%
2	11%	14%	1%	1%	26%
3	1%	19%	0%	1%	21%
4	0%	1%	0%	0%	1%
5 to 7	2%	1%	0%	0%	3%
8 to 9	1%	3%	1%	2%	6%
10 to 14	1%	12%	2%	6%	21%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	1%	1%
TOTAL	24%	61%	4%	11%	100%

Zone A/B 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	23%	15%	3%	4%	45%
3	4%	7%	1%	2%	13%
4	6%	5%	2%	5%	17%
5 to 7	0%	2%	2%	1%	5%
8 to 9	0%	0%	0%	0%	0%
10 to 14	2%	5%	4%	0%	11%
15 to 19	1%	0%	0%	0%	1%
20+	0%	2%	1%	1%	4%
TOTAL	36%	39%	12%	13%	100%

Zone C/D 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	5%	18%	8%	6%	36%
3	7%	28%	9%	6%	50%
4	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%
10 to 14	0%	3%	0%	2%	5%
15 to 19	0%	0%	0%	0%	0%
20+	0%	1%	3%	2%	6%
TOTAL	15%	50%	20%	15%	100%

Zone E 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	41%	3%	2%	0%	46%
3	0%	1%	0%	0%	1%
4	0%	0%	0%	0%	0%
5 to 7	7%	8%	15%	0%	30%
8 to 9	2%	10%	5%	0%	17%
10 to 14	2%	4%	0%	0%	6%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	51%	27%	22%	0%	100%

Zone F/G 3-12 Miles					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	6%	21%	1%	1%	29%
3	0%	2%	0%	0%	2%
4	0%	0%	0%	0%	0%
5 to 7	10%	3%	1%	0%	13%
8 to 9	1%	10%	2%	1%	14%
10 to 14	7%	15%	4%	3%	29%
15 to 19	0%	1%	1%	0%	1%
20+	0%	6%	1%	4%	10%
TOTAL	24%	57%	10%	9%	100%

Zone A/B 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	11%	11%	7%	30%
3	0%	0%	0%	6%	6%
4	9%	4%	6%	0%	19%
5 to 7	0%	0%	0%	0%	0%
8 to 9	0%	0%	0%	0%	0%
10 to 14	2%	17%	2%	0%	20%
15 to 19	0%	0%	0%	0%	0%
20+	0%	11%	0%	15%	26%
TOTAL	11%	43%	19%	28%	100%

Zone C/D 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	20%	10%	10%	40%
3	0%	17%	0%	0%	17%
4	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%
8 to 9	23%	0%	0%	0%	23%
10 to 14	0%	3%	0%	0%	3%
15 to 19	0%	0%	0%	0%	0%
20+	10%	3%	0%	3%	17%
TOTAL	33%	43%	10%	13%	100%

Zone E 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	48%	20%	0%	0%	68%
3	0%	3%	0%	0%	3%
4	0%	0%	0%	0%	0%
5 to 7	0%	0%	0%	0%	0%
8 to 9	20%	0%	0%	0%	20%
10 to 14	13%	0%	0%	0%	13%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	77%	23%	0%	0%	100%

Zone F/G 12+					
Number of Traps per Vessel					
Traps per Trawl	1 to 200	201 to 400	401 to 600	601+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	0%	0%	0%	0%
3	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%
5 to 7	4%	0%	0%	0%	4%
8 to 9	0%	23%	0%	0%	23%
10 to 14	15%	15%	0%	8%	38%
15 to 19	0%	0%	8%	0%	8%
20+	4%	23%	0%	0%	27%
TOTAL	23%	62%	8%	8%	100%

NEW HAMPSHIRE

The discussion below explains the model’s characterization of the activity and gear associated with lobster and gillnet vessels fishing exclusively in New Hampshire state waters.¹⁵

Number of Active Vessels*Lobster*

- **Number of State-Licensed Vessels in NH State Waters (2009 through 2010):** The New Hampshire Fish and Game Department (FGD) requires that fishermen who land up to 1,000 pounds report using the Annual Lobster Harvester Report, which includes a monthly summary of fishing activity. Fishermen who land over 1,000 pounds use the Lobster Fisherman and Dealer Reporting Form, which includes trip-level data. To avoid double-counting activity captured in Federal datasets, we remove records for fishermen who also held a Federal permit for a given year, identifying fishermen that held only a state license in each year.
- **Number of Vessels Operating in Exempt and Non-Exempt Waters:** We assign the activity of state-licensed vessels to exempt or non-exempt waters based on the location of activity reported by each vessel. The state reporting areas subject to the ALWTRP include the Isle of Shoals, Seabrook, Gulf of Maine, Rye, and Hampton; all other fishing areas are located landward of the ALWTRP exemption line. Vessels that fish more than one sub-area in exempt or non-exempt waters are counted only once to yield a more accurate count of vessels in each of the two major areas.¹⁶ Table NH-1 presents the resulting number of vessels active in NH waters in each month.

Gillnet

- **Number of Vessels in NH State Waters:** NH FGD provided its Coastal Harvester Reporting Form data for the years 2009 and 2010. The data include trip-level information from all state-permitted gillnet fishermen. The information available is insufficient to differentiate between fishermen who held only a state permit and those who also held a Federal permit; in the absence of this information, our estimate of gillnet activity in NH state waters includes all activity reported via the Coastal Harvester Reporting Form. While this may lead to some double-counting of activity that is also captured in

¹⁵ The NH Fish and Game Department (NH FGD) indicates that OTP activity within NH waters is relatively minor. NH FGD does not maintain a separate reporting system for the OTP fishery. Instead, OTP fishermen use the forms developed for the lobster fishery. The NH data do not differentiate between lobster and OTP activity; therefore, any OTP activity is subsumed within estimates of activity for the lobster fishery.

¹⁶ A small number of vessels (six of approximately 250 in 2010) operate in both exempt and non-exempt waters in select months. The analysis counts these vessels in both exempt and non-exempt waters. Therefore, our analysis may slightly overstate the quantity of gear fished in some months.

Federal datasets, the gillnet fishery in NH waters is relatively small, and the impact on estimates of the total amount of gear deployed is likely to be minor. As with the lobster fishery, we use the fishing areas specified in state reports to allocate state gillnet activity to exempt and non-exempt waters.

Gear Configurations For Model Vessels

Lobster

- **Total Traps Fished:** The specification of each model vessel includes the total number of traps that the vessel fishes over the course of a year. NH FGD provided 2010 data on the maximum number of traps that each lobster vessel fishes in a given month. Using these data, we calculate the average traps fished per vessel for each month (see Table NH-2). Consistent with the approach used for model vessels in other states, the model incorporates these data by applying a scaling factor to the maximum month; Table NH-2 summarizes the scaling factors applied.¹⁷
- **Traps per Trawl:** Each model vessel incorporates an estimate of the number of traps per trawl. NH FGD provided data on the average traps per trawl fished by each vessel. From these data, we develop a distribution and assign each vessel to one of four categories: those fishing singles; those fishing doubles; those fishing three-to-five-trap trawls; and those fishing trawls of six or more traps. This distribution is summarized in Table NH-3. We assume that this distribution applies year round. For the two ranges (three to five, six or more), the model requires a point estimate for calculation of total vertical lines. We use an average of the traps-per-trawl figures in each range, as shown in Table NH-3.
- **Endlines per Trawl:** The number of endlines per trawl is based on expert input from NH FGD staff. Specifically, we assume one endline for singles and doubles, and two endlines for trawls of three or more traps.
- **Groundline Between Traps:** Based on data provided by NMFS gear specialists, we assume that trawls are fished with 120 feet of groundline between traps.
- **Anchor Lines:** We assume anchor lines are not used.

¹⁷ Our analysis suggests that the configuration of gear fished by vessels in exempt and non-exempt waters tends to be relatively similar. For instance, vessels in exempt waters fish an average of about 289 traps, while vessels in non-exempt waters fish an average of approximately 310 traps. Therefore, the model specifies a uniform set of gear configuration assumptions for the two areas.

Gillnet

- **Total Nets and Strings Fished:** The typical number of strings fished in each month is based on an analysis of harvester data provided by NH FGD for gillnetting activity (see Table NH-4). The model applies separate gear configuration estimates for vessels fishing in exempt and non-exempt waters. NH FGD collects information on the number of nets fished per vessel. The model assumes that gillnetters fish one net per string; hence, the number of strings fished is equal to the number of nets fished. Given limited data and the narrow season for gillnetting activity, the model assumes no seasonal variation in the quantity of gear fished.
- **Panel Dimensions:** The net panel dimensions are based on averages calculated from harvester data provided by NH FGD.
- **Other:** The model assumes two surface lines and two 10-foot anchor lines for each gillnet string.

TABLE NH-1. ESTIMATED NUMBER OF VESSELS ACTIVE IN NEW HAMPSHIRE STATE WATERS

FISHERY	YEAR	WATERS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Lobster	2009	Non-Exempt	8	8	8	22	59	96	139	148	125	88	50	26
		Exempt	1	3	3	9	29	53	63	62	62	43	26	10
	2010	Non-Exempt	11	10	8	19	69	114	148	144	124	83	50	24
		Exempt	1	1	1	6	25	53	61	62	53	47	17	7
Gillnet	2009	Non-Exempt	0	0	0	0	0	1	3	2	2	0	0	0
		Exempt	0	0	0	1	5	4	1	1	0	0	0	0
	2010	Non-Exempt	0	0	0	0	0	0	4	3	0	0	0	0
		Exempt	0	0	0	1	6	2	0	1	1	1	0	0

TABLE NH-2. MEAN NUMBER OF TRAPS FISHED BY LOBSTER VESSELS IN NEW HAMPSHIRE STATE WATERS (2010)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Traps per Vessel	440	368	281	262	210	200	206	216	242	296	429	493
Scaling Factor	0.89	0.75	0.57	0.53	0.43	0.41	0.42	0.44	0.49	0.60	0.87	1.00

TABLE NH-3. TRAWL CONFIGURATION ASSUMPTIONS FOR LOBSTER VESSELS FISHING IN NEW HAMPSHIRE STATE WATERS (2010)

TRAPS PER TRAWL CATEGORY	PERCENT OF VESSELS	TRAPS-PER-TRAWL VALUE APPLIED IN MODEL	NUMBER OF ENDLINES PER TRAWL	GROUNDLINE BETWEEN TRAPS (FEET)
Singles	50%	1	1	N.A.
Doubles	6%	2	1	120
3 to 5	17%	4.3	2	120
6 or More	27%	9.1	2	120

TABLE NH-4. GEAR CONFIGURATION ASSUMPTIONS FOR GILLNET VESSELS FISHING IN NEW HAMPSHIRE STATE WATERS (2010)

AREA	TOTAL NUMBER OF STRINGS FISHED	NET PANELS PER STRING	ENDLINES PER STRING	ANCHOR LINES PER STRING	NET PANEL LENGTH (FEET)	NET PANEL HEIGHT (FEET)
Non-Exempt Waters	14	1	2	2 (10 feet each)	296	16
Exempt Waters	1	1	2	2 (10 feet each)	64	5

MASSACHUSETTS

The discussion below explains the model’s characterization of the activity and gear associated with lobster, gillnet, and other trap/pot vessels fishing in Massachusetts waters.

DATA OVERVIEW

The Massachusetts Division of Marine Fisheries (DMF) provided detailed vessel-level data to support development of the vertical line model. Merging information from the trip-level and annual reporting components of its Catch Report data, DMF provided a comprehensive database of activity and gear configurations for all fixed-gear fisheries (lobster, gillnet, and other trap/pot).¹⁸ The data cover the years 2008 through 2009, providing monthly, vessel-level information on quantity of gear fished, number of endlines, and fishing location as indicated by Massachusetts statistical reporting area (SRA). Figure MA-1 provides a map of the Massachusetts SRAs.

DMF provided additional vessel-level data on gear use and fishing location for 2010. These additional data allow estimation of active vessels (see below). However, changes in Massachusetts vessel reporting requirements in 2010 precluded comprehensive analysis of gear configurations; hence, our characterization of gear configurations is based on 2009 data, the year for which the most complete set of information is available.

NUMBER OF ACTIVE VESSELS

The model uses the 2010 DMF data to calculate the number of vessels active in state waters (i.e., inshore SRAs 1 through 14). To avoid double-counting federally permitted vessels, we remove all vessels fishing in the Offshore Reporting Areas (SRAs 15 through 25) and all other vessels that report to the Northeast Vessel Trip Report (VTR) system. The model assumes that the activity of each of the remaining vessels is evenly distributed throughout the area(s) in which the activity is reported. Since the data show activity for all vessels on a monthly basis, no seasonal adjustment is necessary. Table MA-1 presents the number of active vessels in 2010 by month and area for each of the three major fisheries (lobster, gillnet, OTP).¹⁹

GEAR CONFIGURATIONS FOR LOBSTER VESSELS

In many state waters, the model estimates the concentration of vertical line based on average gear configuration parameters for a given area. The size and complexity of the Massachusetts lobster fishery calls for a more detailed approach. Rather than estimate the concentration of vertical line based on a single model vessel designed to represent the average or typical configuration of gear within a particular area, the model incorporates multiple model vessels for each area – representing the full range of gear configurations currently in use – and specifies the percentage of active vessels within the area to which each configuration applies. The discussion below describes the analysis in greater detail.

¹⁸ DMF removed all confidential information on vessel identity and assigned each vessel a generic identification number.

¹⁹ The table excludes SRAs in which the vessels of interest reported no activity.

FIGURE MA-1. MASSACHUSETTS STATISTICAL REPORTING AREAS

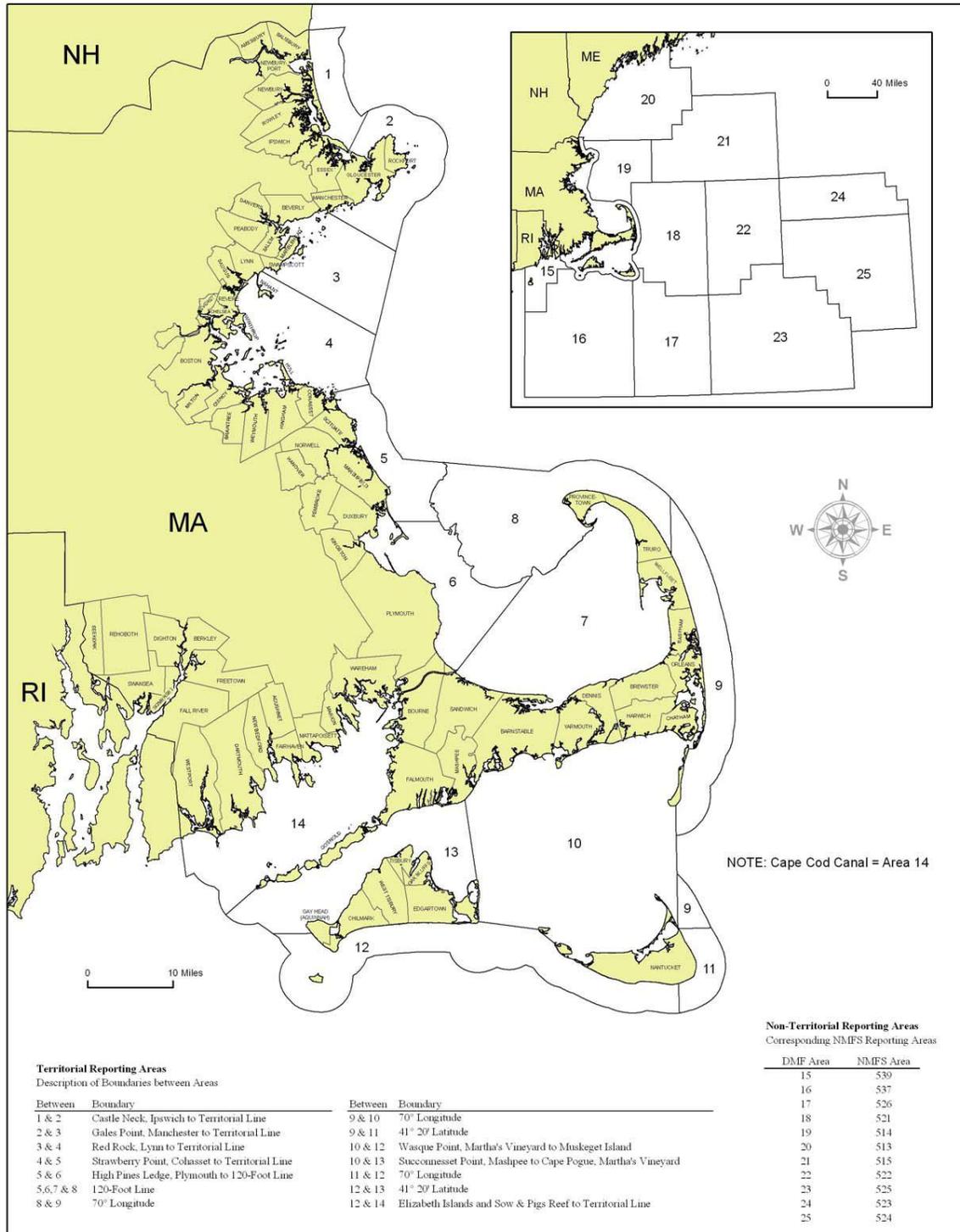


TABLE MA-1. ESTIMATED NUMBER OF ACTIVE VESSELS HOLDING ONLY A STATE PERMIT (2010)

FISHERY	AREA	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Lobster Trap	SRA 1	3	3		4	9	22	22	25	24	16	7	6
	SRA 2	52	27	25	40	72	99	127	132	122	107	95	75
	SRA 3	37	18	20	29	52	73	99	98	106	99	89	65
	SRA 4	31	19	16	41	63	99	116	127	121	110	91	62
	SRA 5	17	8	12	35	50	57	65	70	68	63	51	40
	SRA 6	11	5	8	30	37	54	65	69	66	57	45	32
	SRA 7	3	2	2	3	20	48	60	62	58	47	30	11
	SRA 8	4	1	2	2	9	14	18	19	20	22	19	13
	SRA 9				3	19	29	33	35	29	27	21	8
	SRA 10				1	2	3	4	3	3	2	2	1
	SRA 12	1	1	1	4	5	5	6	6	5	3	3	2
	SRA 13	1	1	2	8	12	16	20	16	7	2	3	3
	SRA 14	9	4	14	17	18	20	25	19	5	5	6	7
	Gillnet	SRA 2	2	2	2			1	3	3	2	1	4
SRA 3			1				7	5	4	3	1	2	2
SRA 4		1	2	1			7	5	5	4		3	6
SRA 5		2	1	1			1	1	1				1
SRA 6							1	1					
SRA 8						1	1	1	2				
SRA 9			1	1	1	1	1	1	1	1	1	1	1
SRA 12		1					1	1		1	1	1	
SRA 14								1					
OTP	SRA 1							1					
	SRA 2							1				1	2
	SRA 3											1	1
	SRA 7								1				
	SRA 10	1			1	28	20	21	25	22	22	18	7
	SRA 12								4	2	1	1	1
	SRA 13					1	6	6	8	10	9	5	2
	SRA 14				3	38	17	12	26	26	22	20	9

Distributional Approach

The two parameters of primary interest in specifying model vessels for the Massachusetts lobster fishery are the number of traps fished per vessel and the number of traps fished per trawl. We analyze the 2009 Catch Report data with respect to these two factors. For purposes of this analysis, we calculate the annual average for each vessel and examine the resulting distribution of values.

Massachusetts lobstermen do not explicitly report traps per trawl; in 2009, however, a significant proportion of them were required to report not only the number of traps they fished, but also the number of vertical lines they employed. We combine this information to estimate traps per trawl. We first divide the number of pots fished by the number of lines fished to calculate the number of traps per line. Consistent with DMF guidance, we then assume that if the traps-per-line figure is less than two, the vessel fishes with one endline per trawl. If the traps per line figure is two or greater, we assume two endlines are used. The traps per trawl estimates are derived by multiplying the number of traps per line by the assumed lines per trawl. For instance, if the traps-per-line figure is seven, we assume two endlines, and the vessel is assumed to fish 14 traps per trawl. We calculate traps per trawl individually for each record in the database.²⁰

Figure MA-2 shows the resulting distribution of the average number of traps per trawl fished by vessels operating in SRAs 1 through 14.²¹ Based on the analysis described above, the exhibit indicates that lobstermen in Massachusetts waters make frequent use of singles, ten-trap trawls, and 20-trap trawls. Based on this distribution, we establish the following categories for the specification of model vessels: 1, 2, 3-4, 5-9, 10-14, 15-19, and 20+ traps per trawl. Relatively few vessels currently fish trawls in the four to nine range; likewise, as noted, our method of calculating traps per trawl yields very few vessels whose annual average rounds to three traps per trawl.

Figure MA-3 shows the distribution of the average number of traps fished by vessels active in the 14 inshore SRAs. The distribution is arrayed using increments of 50. As the exhibit indicates, the distribution is skewed to the left; i.e., more vessels fish smaller numbers of traps. This result is partially attributable to the structure of the data received from DMF. Vessels that fish more than one SRA have their gear divided between areas based on percentages specified by each fisherman in his/her reporting form. Hence, the distribution actually represents the average traps fished per vessel in a given SRA. This is appropriate given that the model accounts for the total number of vessels active in each SRA.

²⁰ Note that this method necessarily leads to a “gap” in the estimate of traps per trawl; specifically, it yields no individual records where a vessel fishes three traps per trawl. Limited instances of three traps per trawl occur in the frequency distribution because of averaging performed across months for each vessel.

²¹ Twenty percent of active lobster vessels were not required to report buoy line information to the Catch Report system in 2009. Therefore, the total number of vessels in the traps-per-trawl frequency distribution is less than that discussed below for traps per vessel.

FIGURE MA-2. DISTRIBUTION OF AVERAGE TRAPS PER TRAWL FOR LOBSTER VESSELS IN MASSACHUSETTS INSHORE SRAS

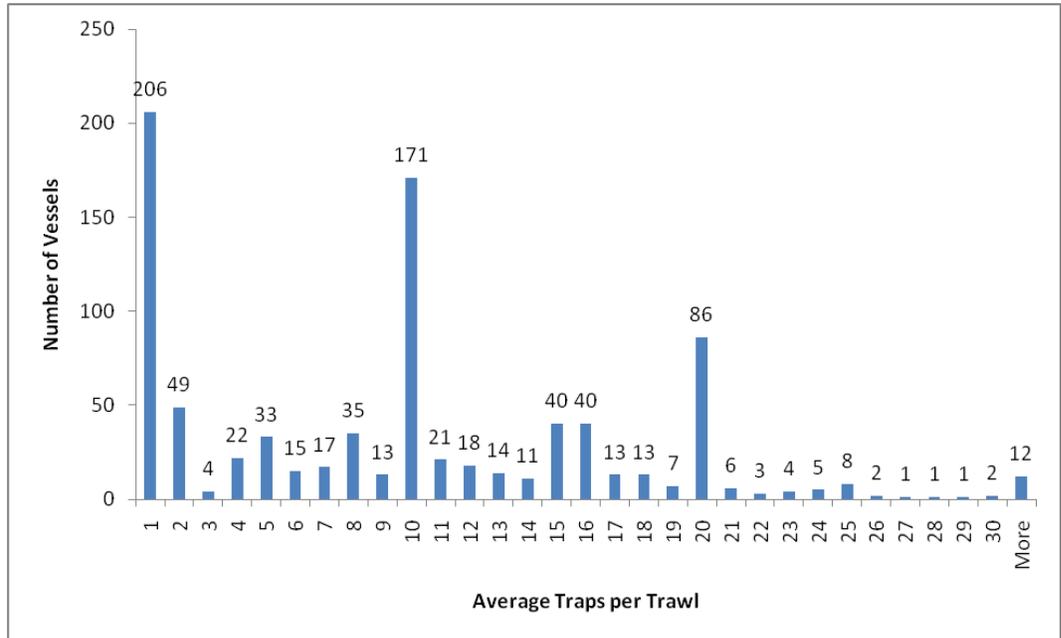
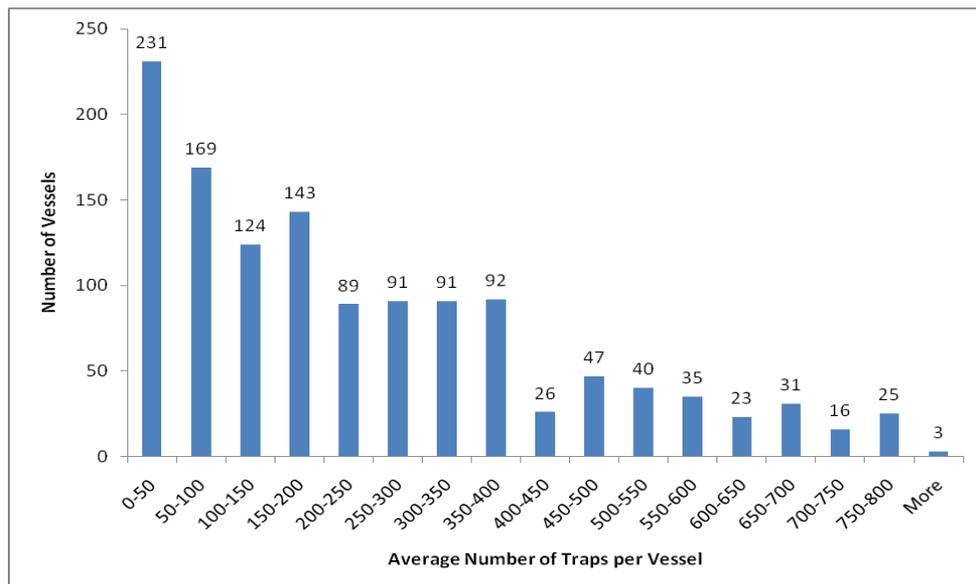


FIGURE MA-3. DISTRIBUTION OF AVERAGE NUMBER OF TRAPS PER LOBSTER VESSEL IN MASSACHUSETTS INSHORE SRAS



To characterize traps per vessel, we use the following categories for the specification of model vessels: 1-100, 101-200, 201-400, and more than 400 traps.

Table MA-2 incorporates the categories specified above to illustrate the application of the gear characterization approach. The table shows, for a hypothetical area and month, the percentage of vessels that fish a given combination of traps and traps per trawl. In this case, for instance, 20 percent of vessels fish 101 to 200 traps, configured as singles. The model employs matrices like this to characterize the baseline distribution of gear use in Massachusetts inshore lobster areas. The distribution for each area varies on a monthly basis, reflecting the monthly variation in gear configurations reported in the data.

TABLE MA-2. DISTRIBUTION OF LOBSTER VESSELS FISHING A GIVEN CONFIGURATION OF GEAR FOR A HYPOTHETICAL AREA AND MONTH

TRAPS PER TRAWL	TRAPS PER VESSEL				TOTAL
	1-100 TRAPS	101-200 TRAPS	201-400 TRAPS	MORE THAN 400 TRAPS	
1	10%	20%	10%		40%
2		5%	10%		15%
3 to 4			5%		5%
5 to 9			5%		5%
10 to 14			10%	5%	15%
15 to 19			10%	5%	15%
20+				5%	5%
Total	10%	25%	50%	15%	100%

Model Vessel Areas

The model must specify the areas to which a given distribution of gear configurations apply. Some consolidation of the 14 inshore SRAs is warranted given the small number of vessels active in certain areas and months. Table MA-3 presents the number of active vessels (state and Federal) in each month in each of the 14 inshore SRAs, based on the 2009 data. The shading indicates the areas that the model consolidates. As shown, we maintain SRAs 1 through 9 and 14, but consolidate the SRAs due south of Cape Cod (10 through 13) into a single area, where activity is relatively light.²²

The model also takes advantage of the Massachusetts data to develop distributions that characterize the current configuration of lobster gear in several areas beyond state waters: SRAs 16, 18, and 19. As Table MA-3 indicates, the state dataset captures a fair amount of vessel activity in these waters. In the absence of similarly detailed information from Federal sources or from other states, the Massachusetts data provide the best available source of information on the configuration of lobster gear in these areas.

²² No lobster vessels are active in SRA 11.

TABLE MA-3. AREA CONSOLIDATION BASED ON DISTRIBUTION OF ACTIVE LOBSTER VESSELS (2009)

REGION	SRA*	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	FINAL AREA
Inshore	1	6	6	7	8	13	27	33	33	34	25	17	12	Unchanged
	2	72	62	55	65	92	163	189	205	200	178	145	122	Unchanged
	3	40	33	32	34	56	97	130	144	147	137	123	98	Unchanged
	4	29	29	27	43	64	113	149	151	153	137	114	88	Unchanged
	5	22	21	20	45	75	92	106	106	104	91	82	54	Unchanged
	6	11	9	12	27	42	56	74	75	71	65	52	36	Unchanged
	7	5	2	1	9	26	46	57	64	70	57	39	20	Unchanged
	8	12	7	5	8	20	25	33	39	50	52	46	39	Unchanged
	9	1		1	5	30	50	53	52	52	34	24	10	Unchanged
	10				1	2	4	4	3	2	1			Merge (Southern Cape Inshore)
	12	1		6	15	17	19	22	24	16	7	3	2	
	13	4	2	11	20	19	22	23	24	14	6	6	5	
	14	10	8	19	23	24	31	32	26	17	7	13	16	Unchanged
	Nearshore	16	16	16	14	16	21	26	28	30	28	26	23	17
18		6	2	2	4	12	16	14	12	17	17	17	15	Unchanged
19		78	68	64	58	47	34	32	41	70	104	113	107	Unchanged

* No lobster vessels are active in SRA 11.

Model Vessels for Lobster Fishery

Appendix MA-A presents the distribution of gear configurations for all 14 model vessel areas in all 12 months. In each case, separate tables show the distribution in both absolute (i.e., number of vessels) and percentage terms. The total sample size ("N") for each crosstab (i.e., the number of vessels reporting gear use in that area and month) is generally sufficient (30 or more) to be considered statistically representative, particularly in months of peak activity. However, relatively small samples exist in some winter months in some areas. This is especially true in areas 1, 7, and 9, and in the Southern Cape Inshore area. It is noteworthy, however, that because we are working with a near-complete set of data (i.e., only vessels that did not report buoy line information are absent from the crosstabs), the months with limited data are also the months with little or no lobstering activity.

To estimate vertical line use in a given area and month, the model applies the specified distribution of gear configurations to the number of vessels reported to be active at that place and time. For instance, if the estimate of active vessels fishing in SRA 2 in September is 122, the model applies the mix of gear configurations in the September Area 2 crosstab to these 122 active vessels.²³

To calculate the number of vertical lines deployed, the model must apply specific numerical values to parameters specified with ranges. For example, for the traps-per-trawl variable, we need to assign numerical values to the "3 to 4" range, the "5 to 9" range, etc.²⁴ To do so, we calculate the average traps per trawl for all responses in the range, across all months. We do the same for the number of traps fished, calculating an average number of traps for each of the ranges.

Table MA-4 summarizes the resulting values and the number of records on which the averages are based.²⁵ For the inshore SRAs, we compared the variation in averages between areas and between months, and found the variation to be limited. Hence, we apply these values to all months and all areas. It is essential to keep in mind that these are averages *within* each range. The model recognizes that gear configurations vary seasonally and by area, and captures this variation by employing a different distribution of gear configurations (i.e., different combinations of traps and traps-per-trawl) for each area and month.

²³ No data were reported for SRA 9 in January and February, and SRA 7 in March. The model fills these gaps with the gear distribution from December for SRA 9, and the gear distribution from April for SRA 7. Very few vessels are active in these areas and months.

²⁴ The model assigns one endline to trawls of four or fewer traps, and two endlines to trawls of five or more traps.

²⁵ Note that the averages for traps per vessel exclude three records with extreme outlier values (greater than 4,000) that appeared to be miscoded.

TABLE MA-4. POINT ESTIMATES APPLIED FOR GEAR CONFIGURATION RANGES

VARIABLE	RANGE	INSHORE		SRA 16 (NEARSHORE)		SRA 18 (NEARSHORE)		SRA 19 (NEARSHORE)	
		VALUE APPLIED IN MODEL	SAMPLE SIZE (N)	VALUE APPLIED IN MODEL	SAMPLE SIZE (N)	VALUE APPLIED IN MODEL	SAMPLE SIZE (N)	VALUE APPLIED IN MODEL	SAMPLE SIZE (N)
Traps per Trawl	3 to 4	4.0	135	4.0	6	4.0*	1	4.0	2
	5 to 9	7.0	713	8.0	7	7.4	7	7.2	40
	10 to 14	10.3	1,699	10.3	35	11.1	10	10.5	211
	15 to 19	15.7	707	15.5	42	16.2	38	15.7	140
	20+	25.2	783	34.1	159	37.0	44	22.3	321
Number of Traps Fished	1-100 Traps	59	1,631	60	22	73	10	68	100
	101-200 Traps	166	1,342	155	17	153	24	176	144
	201-400 Traps	325	2,211	307	57	316	32	346	257
	401+ Traps	654	1,686	979	165	645	68	706	315

* The decision rules used in the data analysis assign data records according to the rounded value of the calculated traps per trawl. When a category has very few data points, it can be dominated by records that have trap-per-trawl figures outside of the range. This leads to an average that is also outside the stated boundaries of the category. The single instance involving a vessel fishing 3 to 4 traps in SRA 18 actually had an average of 4.3 traps per trawl. We limited this value to 4.0 in the model.

In addition to the inshore figures, we develop separate gear configuration parameters for the three nearshore areas (SRAs 16, 18, and 19). The averages in the “20+ Traps per Trawl” category for these three areas are notably different, as are the averages for the “401+ Traps per Vessel” category. To capture this potentially important variation in gear configurations, the model employs different assumptions for vessels in each of the three nearshore areas.

MODEL VESSELS FOR GILLNET AND OTP FISHERIES

In addition to the lobster fishery, the ALWTRP also covers two other fisheries active in Massachusetts waters: the gillnet fishery and the other trap/pot (OTP) fishery. Relative to the lobster fishery, these fisheries involve few active vessels. We characterize model vessel gear configurations for these fisheries as described below.

Gillnet

The key gear configuration parameter for gillnet vessels is the number of strings per vessel. Since the vessel-level data include the number of buoy lines per vessel, we can estimate the number of strings per vessel by dividing the buoy line figure by two (i.e., by assuming two vertical lines per string). We develop monthly averages to account for seasonal variation in the number of strings fished. Table MA-5 summarizes the resulting estimates using the 2009 Catch Report data. The estimates include vessels fishing in both inshore and nearshore waters; the data suggest no significant difference in average strings per vessel between these two areas.

TABLE MA-5. ESTIMATED NUMBER OF GILLNET STRINGS PER VESSEL

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Number of Strings per Gillnet Vessel	3.2	3.2	4.0	5.2	4.7	4.1	4.2	4.1	3.7	4.5	4.8	3.4
N	32	31	25	10	11	54	53	50	46	27	30	41

In addition, the model assumes the following:

- **Nets per String:** The model assumes that gillnetters fish eight net panels per string. The number of nets per string is based on regulatory limits summarized in the gillnet fishery profile provided by MA DMF.
- **Panel Dimensions:** The assumed net panel dimensions (300 feet x 9.7 feet) are based on survey data summarized in the gillnet fishery profile provided by MA DMF.
- **Length of Anchorline:** The assumed length of anchorlines (60 feet) is based on expert input from MA DMF staff.

Other Trap/Pot

The model characterizes gear use in the OTP sector based on data for the three major OTP fisheries in Massachusetts: black sea bass, conch, and scup. Using 2009 data, we calculate the number of traps per vessel and traps per trawl for these three fisheries.²⁶ Seeing limited seasonal or regional variation in these figures, the model applies simple year-round averages for the key gear parameters. These estimates are presented in Table MA-6. In all cases, the model assumes 102 feet of groundline between traps, consistent with DMF guidance.

TABLE MA-6. GEAR CONFIGURATION PARAMETERS FOR OTP FISHERIES

FISHERY	NUMBER OF TRAPS PER VESSEL	TRAPS PER TRAWL	NUMBER OF ENDLINES PER TRAWL
Black Sea Bass	131	6	2
Conch	136	2	1
Scup	33	2	1

The model applies these gear configuration parameters to all vessels that report some form of OTP activity, based on an estimate of the seasonal distribution of activity across the three fisheries. This distribution is shown in Table MA-7.²⁷ For instance, in April, the model assumes that 29 percent of all OTP vessels fish the black sea bass configuration; 71 percent fish the conch configuration; and none fish the scup configuration.

TABLE MA-7. DISTRIBUTION OF OTP GEAR CONFIGURATIONS, BY MONTH

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Black Sea Bass	N.A.	0%	100%	29%	36%	0%	0%	0%	3%	0%	0%	0%
Conch	N.A.	100%	0%	71%	37%	95%	95%	58%	93%	100%	100%	100%
Scup	N.A.	0%	0%	0%	27%	5%	5%	42%	4%	0%	0%	0%

²⁶ We calculate traps per trawl using the method described above for the lobster fishery.

²⁷ This distribution is based on an analysis of OTP activity in 2009.

APPENDIX MA-A
DISTRIBUTION OF LOBSTER GEAR CONFIGURATIONS BY MONTH AND
AREA

JANUARY

Number of Respondents

Area 1					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	0	0
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	1	1	0	2
10 to 14	1	0	0	0	1
15 to 19	0	0	0	0	0
20+	0	0	1	0	1
TOTAL	1	1	2	0	4

Area 2					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	1	0	0	0	1
2	1	0	0	0	1
3 to 4	2	0	1	0	3
5 to 9	1	4	6	1	12
10 to 14	4	6	7	8	25
15 to 19	0	1	4	0	5
20+	3	3	3	0	9
TOTAL	12	14	21	9	56

Area 3					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	1	1	0	2
2	0	0	0	0	0
3 to 4	1	0	0	0	1
5 to 9	2	0	1	0	3
10 to 14	3	4	3	0	10
15 to 19	0	2	5	1	8
20+	2	0	3	2	7
TOTAL	8	7	13	3	31

Area 4					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	1	0	0	0	1
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	1	0	0	1
10 to 14	0	1	3	0	4
15 to 19	2	0	4	1	7
20+	0	1	3	4	8
TOTAL	3	3	10	5	21

Area 5					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	1	0	0	0	1
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	1	0	0	1
10 to 14	3	5	2	0	10
15 to 19	0	2	1	0	3
20+	1	2	0	0	3
TOTAL	5	10	3	0	18

Area 6					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	0	0
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	0	0	0
10 to 14	0	4	1	1	6
15 to 19	0	2	0	0	2
20+	1	0	0	0	1
TOTAL	1	6	1	1	9

Area 7					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	0	0
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	0	0	0
10 to 14	0	2	0	0	2
15 to 19	0	0	0	0	0
20+	1	0	0	0	1
TOTAL	1	2	0	0	3

Area 8					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	1	0	1
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	0	0	0
10 to 14	1	0	1	0	2
15 to 19	0	0	1	0	1
20+	2	0	3	2	7
TOTAL	3	0	6	2	11

Area 9					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	0	0
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	0	0	0
10 to 14	0	0	0	0	0
15 to 19	0	0	0	0	0
20+	0	0	0	0	0
TOTAL	0	0	0	0	0

Southern Cape Inshore					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	0	0
2	0	1	0	0	1
3 to 4	0	0	0	0	0
5 to 9	0	0	0	0	0
10 to 14	1	0	0	0	1
15 to 19	0	0	0	0	0
20+	0	0	0	0	0
TOTAL	1	1	0	0	2

Area 14					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	1	1	0	0	2
2	0	0	0	0	0
3 to 4	1	0	0	0	1
5 to 9	0	1	0	0	1
10 to 14	0	2	1	0	3
15 to 19	0	0	0	0	0
20+	0	0	0	0	0
TOTAL	2	4	1	0	7

Area 16					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	0	0
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	0	0	0
10 to 14	1	0	0	0	1
15 to 19	0	1	1	0	2
20+	1	0	1	11	13
TOTAL	2	1	2	11	16

Area 18					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	0	0
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	0	0	0
10 to 14	0	0	0	0	0
15 to 19	0	1	1	0	2
20+	0	0	1	2	3
TOTAL	0	1	2	2	5

Area 19					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	1	1
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	1	1	1	3
10 to 14	4	4	5	5	18
15 to 19	0	2	2	10	14
20+	0	4	5	24	33
TOTAL	4	11	13	41	69

JANUARY

Percentage of Respondents

Area 1					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	25%	25%	0%	50%
10 to 14	25%	0%	0%	0%	25%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	25%	0%	25%
TOTAL	25%	25%	50%	0%	100%

Area 2					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	2%	0%	0%	0%	2%
2	2%	0%	0%	0%	2%
3 to 4	4%	0%	2%	0%	5%
5 to 9	2%	7%	11%	2%	21%
10 to 14	7%	11%	13%	14%	45%
15 to 19	0%	2%	7%	0%	9%
20+	5%	5%	5%	0%	16%
TOTAL	21%	25%	38%	16%	100%

Area 3					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	3%	3%	0%	6%
2	0%	0%	0%	0%	0%
3 to 4	3%	0%	0%	0%	3%
5 to 9	6%	0%	3%	0%	10%
10 to 14	10%	13%	10%	0%	32%
15 to 19	0%	6%	16%	3%	26%
20+	6%	0%	10%	6%	23%
TOTAL	26%	23%	42%	10%	100%

Area 4					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	5%	0%	0%	0%	5%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	5%	0%	0%	5%
10 to 14	0%	5%	14%	0%	19%
15 to 19	10%	0%	19%	5%	33%
20+	0%	5%	14%	19%	38%
TOTAL	14%	14%	48%	24%	100%

Area 5					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	6%	0%	0%	0%	6%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	6%	0%	0%	6%
10 to 14	17%	28%	11%	0%	56%
15 to 19	0%	11%	6%	0%	17%
20+	6%	11%	0%	0%	17%
TOTAL	28%	56%	17%	0%	100%

Area 6					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	0%	0%	0%
10 to 14	0%	44%	11%	11%	67%
15 to 19	0%	22%	0%	0%	22%
20+	11%	0%	0%	0%	11%
TOTAL	11%	67%	11%	11%	100%

Area 7					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	0%	0%	0%
10 to 14	0%	67%	0%	0%	67%
15 to 19	0%	0%	0%	0%	0%
20+	33%	0%	0%	0%	33%
TOTAL	33%	67%	0%	0%	100%

Area 8					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	9%	0%	9%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	0%	0%	0%
10 to 14	9%	0%	9%	0%	18%
15 to 19	0%	0%	9%	0%	9%
20+	18%	0%	27%	18%	64%
TOTAL	27%	0%	55%	18%	100%

Area 9					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
3 to 4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
5 to 9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
10 to 14	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
15 to 19	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
20+	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
TOTAL	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Southern Cape Inshore					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	50%	0%	0%	50%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	0%	0%	0%
10 to 14	50%	0%	0%	0%	50%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	50%	50%	0%	0%	100%

Area 14					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	14%	14%	0%	0%	29%
2	0%	0%	0%	0%	0%
3 to 4	14%	0%	0%	0%	14%
5 to 9	0%	14%	0%	0%	14%
10 to 14	0%	29%	14%	0%	43%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	29%	57%	14%	0%	100%

Area 16					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	0%	0%	0%
10 to 14	6%	0%	0%	0%	6%
15 to 19	0%	6%	6%	0%	13%
20+	6%	0%	6%	69%	81%
TOTAL	13%	6%	13%	69%	100%

Area 18					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	20%	20%	0%	40%
20+	0%	0%	20%	40%	60%
TOTAL	0%	20%	40%	40%	100%

Area 19					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	0%	1%	1%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	1%	1%	1%	4%
10 to 14	6%	6%	7%	7%	26%
15 to 19	0%	3%	3%	14%	20%
20+	0%	6%	7%	35%	48%
TOTAL	6%	16%	19%	59%	100%

FEBRUARY

Number of Respondents

Area 1					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	0	0
2	0	0	0	0	0
3 to 4	0	0	1	0	1
5 to 9	0	1	0	0	1
10 to 14	1	0	0	0	1
15 to 19	0	0	0	0	0
20+	0	0	1	0	1
TOTAL	1	1	2	0	4

Area 2					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	1	0	0	0	1
2	0	0	0	0	0
3 to 4	2	0	1	0	3
5 to 9	1	5	3	1	10
10 to 14	6	7	4	5	22
15 to 19	1	2	3	0	6
20+	2	2	2	1	7
TOTAL	13	16	13	7	49

Area 3					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	1	0	0	0	1
2	0	0	0	0	0
3 to 4	1	0	0	0	1
5 to 9	2	0	0	0	2
10 to 14	3	5	0	0	8
15 to 19	0	2	5	1	8
20+	3	0	2	1	6
TOTAL	10	7	7	2	26

Area 4					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	0	0
2	0	0	0	0	0
3 to 4	0	1	0	0	1
5 to 9	0	1	0	0	1
10 to 14	0	2	2	0	4
15 to 19	1	0	2	1	4
20+	0	0	4	4	8
TOTAL	1	4	8	5	18

Area 5					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	0	0
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	1	0	0	1
10 to 14	1	4	3	0	8
15 to 19	0	2	0	0	2
20+	3	1	1	1	6
TOTAL	4	8	4	1	17

Area 6					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	0	0
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	0	0	0
10 to 14	0	4	1	0	5
15 to 19	0	1	0	0	1
20+	1	0	0	0	1
TOTAL	1	5	1	0	7

Area 7					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	0	0
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	0	0	0
10 to 14	1	0	0	0	1
15 to 19	0	0	0	0	0
20+	0	0	0	0	0
TOTAL	1	0	0	0	1

Area 8					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	0	0
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	0	0	0
10 to 14	0	0	0	0	0
15 to 19	0	0	1	0	1
20+	2	2	2	0	6
TOTAL	2	2	3	0	7

Area 9					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	0	0
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	0	0	0
10 to 14	0	0	0	0	0
15 to 19	0	0	0	0	0
20+	0	0	0	0	0
TOTAL	0	0	0	0	0

Southern Cape Inshore					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	0	0
2	0	1	0	0	1
3 to 4	0	0	0	0	0
5 to 9	0	0	0	0	0
10 to 14	1	0	0	0	1
15 to 19	0	0	0	0	0
20+	0	0	0	0	0
TOTAL	1	1	0	0	2

Area 14					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	1	1	0	0	2
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	0	0	0
10 to 14	0	1	2	0	3
15 to 19	0	0	0	0	0
20+	0	0	0	0	0
TOTAL	1	2	2	0	5

Area 16					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	0	0
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	1	0	0	0	1
10 to 14	0	0	0	0	0
15 to 19	0	0	1	1	2
20+	0	0	1	12	13
TOTAL	1	0	2	13	16

Area 18					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	0	0
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	0	0	0
10 to 14	0	0	0	0	0
15 to 19	0	0	0	0	0
20+	0	0	0	2	2
TOTAL	0	0	0	2	2

Area 19					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	1	1
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	1	1	1	3
10 to 14	2	4	4	5	15
15 to 19	0	2	3	9	14
20+	1	6	3	18	28
TOTAL	3	13	11	34	61

FEBRUARY

Percentage of Respondents

Area 1					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	25%	0%	25%
5 to 9	0%	25%	0%	0%	25%
10 to 14	25%	0%	0%	0%	25%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	25%	0%	25%
TOTAL	25%	25%	50%	0%	100%

Area 2					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	2%	0%	0%	0%	2%
2	0%	0%	0%	0%	0%
3 to 4	4%	0%	2%	0%	6%
5 to 9	2%	10%	6%	2%	20%
10 to 14	12%	14%	8%	10%	45%
15 to 19	2%	4%	6%	0%	12%
20+	4%	4%	4%	2%	14%
TOTAL	27%	33%	27%	14%	100%

Area 3					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	4%	0%	0%	0%	4%
2	0%	0%	0%	0%	0%
3 to 4	4%	0%	0%	0%	4%
5 to 9	8%	0%	0%	0%	8%
10 to 14	12%	19%	0%	0%	31%
15 to 19	0%	8%	19%	4%	31%
20+	12%	0%	8%	4%	23%
TOTAL	38%	27%	27%	8%	100%

Area 4					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	0%	0%	0%	0%
3 to 4	0%	6%	0%	0%	6%
5 to 9	0%	6%	0%	0%	6%
10 to 14	0%	11%	11%	0%	22%
15 to 19	6%	0%	11%	6%	22%
20+	0%	0%	22%	22%	44%
TOTAL	6%	22%	44%	28%	100%

Area 5					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	6%	0%	0%	6%
10 to 14	6%	24%	18%	0%	47%
15 to 19	0%	12%	0%	0%	12%
20+	18%	6%	6%	6%	35%
TOTAL	24%	47%	24%	6%	100%

Area 6					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	0%	0%	0%
10 to 14	0%	57%	14%	0%	71%
15 to 19	0%	14%	0%	0%	14%
20+	14%	0%	0%	0%	14%
TOTAL	14%	71%	14%	0%	100%

Area 7					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	0%	0%	0%
10 to 14	100%	0%	0%	0%	100%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	100%	0%	0%	0%	100%

Area 8					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	14%	0%	14%
20+	29%	29%	29%	0%	86%
TOTAL	29%	29%	43%	0%	100%

Area 9					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
3 to 4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
5 to 9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
10 to 14	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
15 to 19	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
20+	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
TOTAL	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Southern Cape Inshore					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	50%	0%	0%	50%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	0%	0%	0%
10 to 14	50%	0%	0%	0%	50%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	50%	50%	0%	0%	100%

Area 14					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	20%	20%	0%	0%	40%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	0%	0%	0%
10 to 14	0%	20%	40%	0%	60%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	20%	40%	40%	0%	100%

Area 16					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	6%	0%	0%	0%	6%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	6%	6%	13%
20+	0%	0%	6%	75%	81%
TOTAL	6%	0%	13%	81%	100%

Area 18					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	100%	100%
TOTAL	0%	0%	0%	100%	100%

Area 19					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	0%	2%	2%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	2%	2%	2%	5%
10 to 14	3%	7%	7%	8%	25%
15 to 19	0%	3%	5%	15%	23%
20+	2%	10%	5%	30%	46%
TOTAL	5%	21%	18%	56%	100%

MARCH

Number of Respondents

Area 1					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	0	0
2	0	0	0	0	0
3 to 4	0	0	1	0	1
5 to 9	0	1	0	0	1
10 to 14	1	0	0	0	1
15 to 19	0	0	0	0	0
20+	0	1	0	0	1
TOTAL	1	2	1	0	4

Area 2					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	1	0	0	0	1
2	0	0	0	0	0
3 to 4	2	0	1	0	3
5 to 9	2	4	3	1	10
10 to 14	6	5	3	4	18
15 to 19	0	1	2	0	3
20+	1	5	2	0	8
TOTAL	12	15	11	5	43

Area 3					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	1	1	0	2
2	0	0	0	0	0
3 to 4	1	0	0	0	1
5 to 9	2	1	1	0	4
10 to 14	6	3	1	0	10
15 to 19	0	0	4	2	6
20+	4	0	2	0	6
TOTAL	13	5	9	2	29

Area 4					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	0	0
2	0	0	0	0	0
3 to 4	0	1	0	0	1
5 to 9	0	1	0	0	1
10 to 14	0	2	3	0	5
15 to 19	1	0	2	2	5
20+	0	0	3	3	6
TOTAL	1	4	8	5	18

Area 5					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	1	0	0	1
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	1	0	0	1
10 to 14	0	2	4	0	6
15 to 19	0	2	2	0	4
20+	2	1	0	0	3
TOTAL	2	7	6	0	15

Area 6					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	0	0
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	0	0	0
10 to 14	0	2	2	1	5
15 to 19	0	2	0	0	2
20+	0	0	0	1	1
TOTAL	0	4	2	2	8

Area 7					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	0	0
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	0	0	0
10 to 14	0	0	0	0	0
15 to 19	0	0	0	0	0
20+	0	0	0	0	0
TOTAL	0	0	0	0	0

Area 8					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	0	0
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	0	0	0
10 to 14	0	1	0	0	1
15 to 19	0	1	0	0	1
20+	1	1	0	1	3
TOTAL	1	3	0	1	5

Area 9					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	1	0	0	0	1
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	0	0	0
10 to 14	0	0	0	0	0
15 to 19	0	0	0	0	0
20+	0	0	0	0	0
TOTAL	1	0	0	0	1

Southern Cape Inshore					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	1	1	0	2
2	0	1	0	0	1
3 to 4	0	0	0	0	0
5 to 9	2	0	1	0	3
10 to 14	4	1	0	0	5
15 to 19	0	0	2	0	2
20+	0	0	0	0	0
TOTAL	6	3	4	0	13

Area 14					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	4	4	0	1	9
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	0	0	0
10 to 14	0	2	3	0	5
15 to 19	0	0	1	0	1
20+	0	0	0	0	0
TOTAL	4	6	4	1	15

Area 16					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	0	0
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	0	0	0
10 to 14	1	0	0	0	1
15 to 19	0	0	1	0	1
20+	0	0	2	10	12
TOTAL	1	0	3	10	14

Area 18					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	0	0
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	0	0	0
10 to 14	0	0	0	0	0
15 to 19	0	0	0	0	0
20+	0	0	0	2	2
TOTAL	0	0	0	2	2

Area 19					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	1	1
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	1	1	1	3
10 to 14	4	6	4	3	17
15 to 19	0	1	3	6	10
20+	1	2	6	17	26
TOTAL	5	10	14	28	57

MARCH
Percentage of Respondents

Area 1					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	25%	0%	25%
5 to 9	0%	25%	0%	0%	25%
10 to 14	25%	0%	0%	0%	25%
15 to 19	0%	0%	0%	0%	0%
20+	0%	25%	0%	0%	25%
TOTAL	25%	50%	25%	0%	100%

Area 2					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	2%	0%	0%	0%	2%
2	0%	0%	0%	0%	0%
3 to 4	5%	0%	2%	0%	7%
5 to 9	5%	9%	7%	2%	23%
10 to 14	14%	12%	7%	9%	42%
15 to 19	0%	2%	5%	0%	7%
20+	2%	12%	5%	0%	19%
TOTAL	28%	35%	26%	12%	100%

Area 3					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	3%	3%	0%	7%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	3%
5 to 9	7%	3%	3%	0%	14%
10 to 14	21%	10%	3%	0%	34%
15 to 19	0%	0%	14%	7%	21%
20+	14%	0%	7%	0%	21%
TOTAL	45%	17%	31%	7%	100%

Area 4					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	0%	0%	0%	0%
3 to 4	0%	6%	0%	0%	6%
5 to 9	0%	6%	0%	0%	6%
10 to 14	0%	11%	17%	0%	28%
15 to 19	6%	0%	11%	11%	28%
20+	0%	0%	17%	17%	33%
TOTAL	6%	22%	44%	28%	100%

Area 5					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	7%	0%	0%	7%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	7%	0%	0%	7%
10 to 14	0%	13%	27%	0%	40%
15 to 19	0%	13%	13%	0%	27%
20+	13%	7%	0%	0%	20%
TOTAL	13%	47%	40%	0%	100%

Area 6					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	0%	0%	0%
10 to 14	0%	25%	25%	13%	63%
15 to 19	0%	25%	0%	0%	25%
20+	0%	0%	0%	13%	13%
TOTAL	0%	50%	25%	25%	100%

Area 7					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
3 to 4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
5 to 9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
10 to 14	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
15 to 19	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
20+	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
TOTAL	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Area 8					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	0%	0%	0%
10 to 14	0%	20%	0%	0%	20%
15 to 19	0%	20%	0%	0%	20%
20+	20%	20%	0%	20%	60%
TOTAL	20%	60%	0%	20%	100%

Area 9					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	100%	0%	0%	0%	100%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	100%	0%	0%	0%	100%

Southern Cape Inshore					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	8%	8%	0%	15%
2	0%	8%	0%	0%	8%
3 to 4	0%	0%	0%	0%	0%
5 to 9	15%	0%	8%	0%	23%
10 to 14	31%	8%	0%	0%	38%
15 to 19	0%	0%	15%	0%	15%
20+	0%	0%	0%	0%	0%
TOTAL	46%	23%	31%	0%	100%

Area 14					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	27%	27%	0%	7%	60%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	0%	0%	0%
10 to 14	0%	13%	20%	0%	33%
15 to 19	0%	0%	7%	0%	7%
20+	0%	0%	0%	0%	0%
TOTAL	27%	40%	27%	7%	100%

Area 16					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	0%	0%	0%
10 to 14	7%	0%	0%	0%	7%
15 to 19	0%	0%	7%	0%	7%
20+	0%	0%	14%	71%	86%
TOTAL	7%	0%	21%	71%	100%

Area 18					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	100%	100%
TOTAL	0%	0%	0%	100%	100%

Area 19					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	0%	2%	2%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	2%	2%	2%	5%
10 to 14	7%	11%	7%	5%	30%
15 to 19	0%	2%	5%	11%	18%
20+	2%	4%	11%	30%	46%
TOTAL	9%	18%	25%	49%	100%

APRIL

Number of Respondents

Area 1					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	0	0
2	0	0	0	0	0
3 to 4	0	0	1	0	1
5 to 9	0	0	1	0	1
10 to 14	0	0	1	0	1
15 to 19	0	0	0	0	0
20+	0	0	0	0	0
TOTAL	0	0	3	0	3

Area 2					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	1	0	0	0	1
2	0	1	0	0	1
3 to 4	0	0	1	0	1
5 to 9	2	8	4	2	16
10 to 14	1	6	6	8	21
15 to 19	1	0	3	0	4
20+	1	3	2	2	8
TOTAL	6	18	16	12	52

Area 3					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	1	0	0	1
2	0	0	0	0	0
3 to 4	1	0	0	0	1
5 to 9	2	1	2	1	6
10 to 14	1	3	2	0	6
15 to 19	1	1	6	1	9
20+	2	2	1	0	5
TOTAL	7	8	11	2	28

Area 4					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	3	0	0	0	3
2	0	0	0	0	0
3 to 4	0	1	0	0	1
5 to 9	0	0	1	0	1
10 to 14	1	2	4	1	8
15 to 19	1	0	5	2	8
20+	0	0	6	4	10
TOTAL	5	3	16	7	31

Area 5					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	1	0	1	0	2
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	1	0	1	0	2
10 to 14	2	3	6	3	14
15 to 19	1	3	1	1	6
20+	2	2	3	0	7
TOTAL	7	8	12	4	31

Area 6					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	1	0	0	0	1
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	1	0	1	0	2
10 to 14	0	4	3	2	9
15 to 19	1	1	2	0	4
20+	1	0	0	0	1
TOTAL	4	5	6	2	17

Area 7					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	2	0	0	0	2
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	0	0	0
10 to 14	0	1	2	0	3
15 to 19	0	0	0	0	0
20+	0	0	0	0	0
TOTAL	2	1	2	0	5

Area 8					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	1	0	0	0	1
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	0	0	0
10 to 14	0	0	1	0	1
15 to 19	0	0	1	0	1
20+	2	1	1	1	5
TOTAL	3	1	3	1	8

Area 9					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	3	0	1	0	4
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	0	0	0
10 to 14	0	0	0	0	0
15 to 19	0	0	0	0	0
20+	0	0	1	0	1
TOTAL	3	0	2	0	5

Southern Cape Inshore					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	4	2	2	0	8
2	0	1	0	0	1
3 to 4	0	0	0	0	0
5 to 9	1	1	0	1	3
10 to 14	6	7	1	0	14
15 to 19	0	2	3	0	5
20+	0	0	0	0	0
TOTAL	11	13	6	1	31

Area 14					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	7	4	0	1	12
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	0	0	0
10 to 14	0	2	3	0	5
15 to 19	0	0	1	0	1
20+	0	0	0	0	0
TOTAL	7	6	4	1	18

Area 16					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	0	0
2	0	0	0	0	0
3 to 4	0	0	1	0	1
5 to 9	0	0	0	0	0
10 to 14	2	0	0	0	2
15 to 19	1	0	1	1	3
20+	0	0	1	9	10
TOTAL	3	0	3	10	16

Area 18					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	0	0
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	0	0	0
10 to 14	0	1	0	0	1
15 to 19	0	0	0	0	0
20+	0	0	1	2	3
TOTAL	0	1	1	2	4

Area 19					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	1	0	1
2	0	0	0	0	0
3 to 4	0	0	0	1	1
5 to 9	2	0	2	0	4
10 to 14	6	3	4	3	16
15 to 19	0	2	3	4	9
20+	1	1	4	17	23
TOTAL	9	6	14	25	54

APRIL

Percentage of Respondents

Area 1					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	33%	0%	33%
5 to 9	0%	0%	33%	0%	33%
10 to 14	0%	0%	33%	0%	33%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	0%	0%	100%	0%	100%

Area 2					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	2%	0%	0%	0%	2%
2	0%	2%	0%	0%	2%
3 to 4	0%	0%	2%	0%	2%
5 to 9	4%	15%	8%	4%	31%
10 to 14	2%	12%	12%	15%	40%
15 to 19	2%	0%	6%	0%	8%
20+	2%	6%	4%	4%	15%
TOTAL	12%	35%	31%	23%	100%

Area 3					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	4%	0%	0%	4%
2	0%	0%	0%	0%	0%
3 to 4	4%	0%	0%	0%	4%
5 to 9	7%	4%	7%	4%	21%
10 to 14	4%	11%	7%	0%	21%
15 to 19	4%	4%	21%	4%	32%
20+	7%	7%	4%	0%	18%
TOTAL	25%	29%	39%	7%	100%

Area 4					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	10%	0%	0%	0%	10%
2	0%	0%	0%	0%	0%
3 to 4	0%	3%	0%	0%	3%
5 to 9	0%	0%	3%	0%	3%
10 to 14	3%	6%	13%	3%	26%
15 to 19	3%	0%	16%	6%	26%
20+	0%	0%	19%	13%	32%
TOTAL	16%	10%	52%	23%	100%

Area 5					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	3%	0%	3%	0%	6%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	3%	0%	3%	0%	6%
10 to 14	6%	10%	19%	10%	45%
15 to 19	3%	10%	3%	3%	19%
20+	6%	6%	10%	0%	23%
TOTAL	23%	26%	39%	13%	100%

Area 6					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	6%	0%	0%	0%	6%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	6%	0%	6%	0%	12%
10 to 14	0%	24%	18%	12%	53%
15 to 19	6%	6%	12%	0%	24%
20+	6%	0%	0%	0%	6%
TOTAL	24%	29%	35%	12%	100%

Area 7					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	40%	0%	0%	0%	40%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	0%	0%	0%
10 to 14	0%	20%	40%	0%	60%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	40%	20%	40%	0%	100%

Area 8					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	13%	0%	0%	0%	13%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	13%	0%	13%
15 to 19	0%	0%	13%	0%	13%
20+	25%	13%	13%	13%	63%
TOTAL	38%	13%	38%	13%	100%

Area 9					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	60%	0%	20%	0%	80%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	20%	0%	20%
TOTAL	60%	0%	40%	0%	100%

Southern Cape Inshore					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	13%	6%	6%	0%	26%
2	0%	3%	0%	0%	3%
3 to 4	0%	0%	0%	0%	0%
5 to 9	3%	3%	0%	3%	10%
10 to 14	19%	23%	3%	0%	45%
15 to 19	0%	6%	10%	0%	16%
20+	0%	0%	0%	0%	0%
TOTAL	35%	42%	19%	3%	100%

Area 14					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	39%	22%	0%	6%	67%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	0%	0%	0%
10 to 14	0%	11%	17%	0%	28%
15 to 19	0%	0%	6%	0%	6%
20+	0%	0%	0%	0%	0%
TOTAL	39%	33%	22%	6%	100%

Area 16					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	6%	0%	6%
5 to 9	0%	0%	0%	0%	0%
10 to 14	13%	0%	0%	0%	13%
15 to 19	6%	0%	6%	6%	19%
20+	0%	0%	6%	56%	63%
TOTAL	19%	0%	19%	63%	100%

Area 18					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	0%	0%	0%
10 to 14	0%	25%	0%	0%	25%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	25%	50%	75%
TOTAL	0%	25%	25%	50%	100%

Area 19					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	2%	0%	2%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	2%	2%
5 to 9	4%	0%	4%	0%	7%
10 to 14	11%	6%	7%	6%	30%
15 to 19	0%	4%	6%	7%	17%
20+	2%	2%	7%	31%	43%
TOTAL	17%	11%	26%	46%	100%

MAY

Number of Respondents

Area 1					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	1	0	0	1
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	1	1	2
10 to 14	0	1	3	0	4
15 to 19	0	0	1	0	1
20+	0	0	0	0	0
TOTAL	0	2	5	1	8

Area 2					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	3	0	0	0	3
2	0	0	1	0	1
3 to 4	0	1	2	1	4
5 to 9	3	8	7	3	21
10 to 14	4	6	13	10	33
15 to 19	1	3	3	0	7
20+	1	2	2	3	8
TOTAL	12	20	28	17	77

Area 3					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	1	0	2	0	3
2	0	0	0	0	0
3 to 4	1	1	1	0	3
5 to 9	4	0	1	3	8
10 to 14	3	7	3	1	14
15 to 19	1	1	4	4	10
20+	1	2	3	1	7
TOTAL	11	11	14	9	45

Area 4					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	3	0	0	1	4
2	1	0	0	0	1
3 to 4	0	1	0	0	1
5 to 9	1	0	2	0	3
10 to 14	1	4	3	5	13
15 to 19	1	0	7	3	11
20+	0	1	5	7	13
TOTAL	7	6	17	16	46

Area 5					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	1	0	1	0	2
2	1	0	0	0	1
3 to 4	0	0	0	0	0
5 to 9	1	0	1	0	2
10 to 14	9	7	9	6	31
15 to 19	1	3	4	2	10
20+	0	3	1	3	7
TOTAL	13	13	16	11	53

Area 6					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	5	0	0	0	5
2	1	0	0	0	1
3 to 4	0	0	0	0	0
5 to 9	1	2	2	2	7
10 to 14	1	2	7	2	12
15 to 19	1	1	1	0	3
20+	2	0	0	0	2
TOTAL	11	5	10	4	30

Area 7					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	5	3	6	14
2	1	0	0	0	1
3 to 4	0	0	0	0	0
5 to 9	1	0	0	0	1
10 to 14	0	1	2	0	3
15 to 19	0	0	0	0	0
20+	0	0	1	0	1
TOTAL	2	6	6	6	20

Area 8					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	3	1	4	2	10
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	1	0	0	0	1
10 to 14	0	1	1	0	2
15 to 19	0	0	1	0	1
20+	1	1	0	1	3
TOTAL	5	3	6	3	17

Area 9					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	5	7	8	0	20
2	0	1	0	0	1
3 to 4	0	0	0	0	0
5 to 9	0	0	0	0	0
10 to 14	1	0	0	0	1
15 to 19	0	1	3	0	4
20+	0	0	0	0	0
TOTAL	6	9	11	0	26

Southern Cape Inshore					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	4	2	0	1	7
2	0	1	0	0	1
3 to 4	1	0	0	0	1
5 to 9	1	0	1	1	3
10 to 14	4	6	3	0	13
15 to 19	0	3	3	0	6
20+	0	0	1	0	1
TOTAL	10	12	8	2	32

Area 14					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	9	4	1	1	15
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	0	0	0
10 to 14	0	0	3	0	3
15 to 19	0	0	1	0	1
20+	0	0	0	0	0
TOTAL	9	4	5	1	19

Area 16					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	0	0
2	0	0	0	0	0
3 to 4	0	0	0	1	1
5 to 9	1	0	0	0	1
10 to 14	1	1	1	0	3
15 to 19	0	0	0	2	2
20+	0	1	3	10	14
TOTAL	2	2	4	13	21

Area 18					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	1	0	0	0	1
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	0	0	0
10 to 14	0	0	1	0	1
15 to 19	1	2	1	0	4
20+	0	0	1	2	3
TOTAL	2	2	3	2	9

Area 19					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	1	0	1
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	1	0	1
10 to 14	4	5	5	2	16
15 to 19	0	2	3	4	9
20+	2	0	5	9	16
TOTAL	6	7	15	15	43

MAY

Percentage of Respondents

Area 1					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	13%	0%	0%	13%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	13%	13%	25%
10 to 14	0%	13%	38%	0%	50%
15 to 19	0%	0%	13%	0%	13%
20+	0%	0%	0%	0%	0%
TOTAL	0%	25%	63%	13%	100%

Area 2					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	4%	0%	0%	0%	4%
2	0%	0%	1%	0%	1%
3 to 4	0%	1%	3%	1%	5%
5 to 9	4%	10%	9%	4%	27%
10 to 14	5%	8%	17%	13%	43%
15 to 19	1%	4%	4%	0%	9%
20+	1%	3%	3%	4%	10%
TOTAL	16%	26%	36%	22%	100%

Area 3					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	2%	0%	4%	0%	7%
2	0%	0%	0%	0%	0%
3 to 4	2%	2%	2%	0%	7%
5 to 9	9%	0%	2%	7%	18%
10 to 14	7%	16%	7%	2%	31%
15 to 19	2%	2%	9%	9%	22%
20+	2%	4%	7%	2%	16%
TOTAL	24%	24%	31%	20%	100%

Area 4					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	7%	0%	0%	2%	9%
2	2%	0%	0%	0%	2%
3 to 4	0%	2%	0%	0%	2%
5 to 9	2%	0%	4%	0%	7%
10 to 14	2%	9%	7%	11%	28%
15 to 19	2%	0%	15%	7%	24%
20+	0%	2%	11%	15%	28%
TOTAL	15%	13%	37%	35%	100%

Area 5					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	2%	0%	2%	0%	4%
2	2%	0%	0%	0%	2%
3 to 4	0%	0%	0%	0%	0%
5 to 9	2%	0%	2%	0%	4%
10 to 14	17%	13%	17%	11%	58%
15 to 19	2%	6%	8%	4%	19%
20+	0%	6%	2%	6%	13%
TOTAL	25%	25%	30%	21%	100%

Area 6					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	17%	0%	0%	0%	17%
2	3%	0%	0%	0%	3%
3 to 4	0%	0%	0%	0%	0%
5 to 9	3%	7%	7%	7%	23%
10 to 14	3%	7%	23%	7%	40%
15 to 19	3%	3%	3%	0%	10%
20+	7%	0%	0%	0%	7%
TOTAL	37%	17%	33%	13%	100%

Area 7					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	25%	15%	30%	70%
2	5%	0%	0%	0%	5%
3 to 4	0%	0%	0%	0%	0%
5 to 9	5%	0%	0%	0%	5%
10 to 14	0%	5%	10%	0%	15%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	5%	0%	5%
TOTAL	10%	30%	30%	30%	100%

Area 8					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	18%	6%	24%	12%	59%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	6%	0%	0%	0%	6%
10 to 14	0%	6%	6%	0%	12%
15 to 19	0%	0%	6%	0%	6%
20+	6%	6%	0%	6%	18%
TOTAL	29%	18%	35%	18%	100%

Area 9					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	19%	27%	31%	0%	77%
2	0%	4%	0%	0%	4%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	0%	0%	0%
10 to 14	4%	0%	0%	0%	4%
15 to 19	0%	4%	12%	0%	15%
20+	0%	0%	0%	0%	0%
TOTAL	23%	35%	42%	0%	100%

Southern Cape Inshore					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	13%	6%	0%	3%	22%
2	0%	3%	0%	0%	3%
3 to 4	3%	0%	0%	0%	3%
5 to 9	3%	0%	3%	3%	9%
10 to 14	13%	19%	9%	0%	41%
15 to 19	0%	9%	9%	0%	19%
20+	0%	0%	3%	0%	3%
TOTAL	31%	38%	25%	6%	100%

Area 14					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	47%	21%	5%	5%	79%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	16%	0%	16%
15 to 19	0%	0%	5%	0%	5%
20+	0%	0%	0%	0%	0%
TOTAL	47%	21%	26%	5%	100%

Area 16					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	5%	5%
5 to 9	5%	0%	0%	0%	5%
10 to 14	5%	5%	5%	0%	14%
15 to 19	0%	0%	0%	10%	10%
20+	0%	5%	14%	48%	67%
TOTAL	10%	10%	19%	62%	100%

Area 18					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	11%	0%	0%	0%	11%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	11%	0%	11%
15 to 19	11%	22%	11%	0%	44%
20+	0%	0%	11%	22%	33%
TOTAL	22%	22%	33%	22%	100%

Area 19					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	2%	0%	2%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	2%	0%	2%
10 to 14	9%	12%	12%	5%	37%
15 to 19	0%	5%	7%	9%	21%
20+	5%	0%	12%	21%	37%
TOTAL	14%	16%	35%	35%	100%

JUNE

Number of Respondents

Area 1					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	4	0	0	0	4
2	2	0	0	0	2
3 to 4	2	0	0	0	2
5 to 9	1	1	0	2	4
10 to 14	2	1	4	2	9
15 to 19	0	0	0	0	0
20+	0	0	0	0	0
TOTAL	11	2	4	4	21

Area 2					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	22	0	0	0	22
2	2	1	0	0	3
3 to 4	5	2	0	1	8
5 to 9	9	11	6	7	33
10 to 14	6	6	14	23	49
15 to 19	1	3	5	0	9
20+	0	2	4	3	9
TOTAL	45	25	29	34	133

Area 3					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	5	0	1	1	7
2	1	1	0	0	2
3 to 4	1	1	1	0	3
5 to 9	2	5	3	4	14
10 to 14	4	3	11	4	22
15 to 19	1	1	8	5	15
20+	1	2	4	2	9
TOTAL	15	13	28	16	72

Area 4					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	11	0	0	0	11
2	1	0	1	0	2
3 to 4	0	1	0	0	1
5 to 9	1	2	1	0	4
10 to 14	3	2	7	8	20
15 to 19	0	0	13	8	21
20+	0	0	7	15	22
TOTAL	16	5	29	31	81

Area 5					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	6	0	0	1	7
2	0	1	0	0	1
3 to 4	0	0	0	0	0
5 to 9	3	1	1	0	5
10 to 14	6	7	14	10	37
15 to 19	0	3	2	4	9
20+	1	3	0	5	9
TOTAL	16	15	17	20	68

Area 6					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	10	1	0	0	11
2	0	1	0	0	1
3 to 4	0	0	0	0	0
5 to 9	1	1	0	4	6
10 to 14	0	4	8	4	16
15 to 19	0	2	1	2	5
20+	0	1	0	0	1
TOTAL	11	10	9	10	40

Area 7					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	8	5	1	8	22
2	2	0	1	2	5
3 to 4	0	0	0	0	0
5 to 9	0	1	0	0	1
10 to 14	0	2	2	1	5
15 to 19	0	0	0	0	0
20+	1	0	1	0	2
TOTAL	11	8	5	11	35

Area 8					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	4	2	4	2	12
2	0	0	1	0	1
3 to 4	0	0	0	0	0
5 to 9	1	0	1	0	2
10 to 14	1	1	1	0	3
15 to 19	0	0	0	0	0
20+	1	0	1	1	3
TOTAL	7	3	8	3	21

Area 9					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	9	4	14	3	30
2	0	0	1	0	1
3 to 4	0	0	0	0	0
5 to 9	0	0	1	2	3
10 to 14	1	0	0	1	2
15 to 19	0	0	2	3	5
20+	0	0	1	0	1
TOTAL	10	4	19	9	42

Southern Cape Inshore					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	9	3	1	1	14
2	0	0	0	0	0
3 to 4	1	0	0	0	1
5 to 9	1	0	1	1	3
10 to 14	3	6	2	1	12
15 to 19	1	3	1	0	5
20+	0	0	2	0	2
TOTAL	15	12	7	3	37

Area 14					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	12	3	1	1	17
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	0	0	0
10 to 14	1	1	2	0	4
15 to 19	0	1	0	0	1
20+	0	0	0	0	0
TOTAL	13	5	3	1	22

Area 16					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	0	0
2	0	0	0	0	0
3 to 4	0	0	0	1	1
5 to 9	1	0	0	0	1
10 to 14	2	2	1	0	5
15 to 19	0	1	0	4	5
20+	0	1	2	11	14
TOTAL	3	4	3	16	26

Area 18					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	1	0	0	0	1
2	0	0	1	0	1
3 to 4	0	0	0	0	0
5 to 9	0	1	0	0	1
10 to 14	0	1	0	1	2
15 to 19	0	2	2	0	4
20+	0	0	0	3	3
TOTAL	1	4	3	4	12

Area 19					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	1	0	0	1
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	1	1	0	0	2
10 to 14	1	7	4	1	13
15 to 19	2	0	1	0	3
20+	2	2	4	4	12
TOTAL	6	11	9	5	31

JUNE

Percentage of Respondents

Area 1					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	19%	0%	0%	0%	19%
2	10%	0%	0%	0%	10%
3 to 4	10%	0%	0%	0%	10%
5 to 9	5%	5%	0%	10%	19%
10 to 14	10%	5%	19%	10%	43%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	52%	10%	19%	19%	100%

Area 2					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	17%	0%	0%	0%	17%
2	2%	1%	0%	0%	2%
3 to 4	4%	2%	0%	1%	6%
5 to 9	7%	8%	5%	5%	25%
10 to 14	5%	5%	11%	17%	37%
15 to 19	1%	2%	4%	0%	7%
20+	0%	2%	3%	2%	7%
TOTAL	34%	19%	22%	26%	100%

Area 3					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	7%	0%	1%	1%	10%
2	1%	1%	0%	0%	3%
3 to 4	1%	1%	1%	0%	4%
5 to 9	3%	7%	4%	6%	19%
10 to 14	6%	4%	15%	6%	31%
15 to 19	1%	1%	11%	7%	21%
20+	1%	3%	6%	3%	13%
TOTAL	21%	18%	39%	22%	100%

Area 4					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	14%	0%	0%	0%	14%
2	1%	0%	1%	0%	2%
3 to 4	0%	1%	0%	0%	1%
5 to 9	1%	2%	1%	0%	5%
10 to 14	4%	2%	9%	10%	25%
15 to 19	0%	0%	16%	10%	26%
20+	0%	0%	9%	19%	27%
TOTAL	20%	6%	36%	38%	100%

Area 5					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	9%	0%	0%	1%	10%
2	0%	1%	0%	0%	1%
3 to 4	0%	0%	0%	0%	0%
5 to 9	4%	1%	1%	0%	7%
10 to 14	9%	10%	21%	15%	54%
15 to 19	0%	4%	3%	6%	13%
20+	1%	4%	0%	7%	13%
TOTAL	24%	22%	25%	29%	100%

Area 6					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	25%	3%	0%	0%	28%
2	0%	3%	0%	0%	3%
3 to 4	0%	0%	0%	0%	0%
5 to 9	3%	3%	0%	10%	15%
10 to 14	0%	10%	20%	10%	40%
15 to 19	0%	5%	3%	5%	13%
20+	0%	3%	0%	0%	3%
TOTAL	28%	25%	23%	25%	100%

Area 7					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	23%	14%	3%	23%	63%
2	6%	0%	3%	6%	14%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	3%	0%	0%	3%
10 to 14	0%	6%	6%	3%	14%
15 to 19	0%	0%	0%	0%	0%
20+	3%	0%	3%	0%	6%
TOTAL	31%	23%	14%	31%	100%

Area 8					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	19%	10%	19%	10%	57%
2	0%	0%	5%	0%	5%
3 to 4	0%	0%	0%	0%	0%
5 to 9	5%	0%	5%	0%	10%
10 to 14	5%	5%	5%	0%	14%
15 to 19	0%	0%	0%	0%	0%
20+	5%	0%	5%	5%	14%
TOTAL	33%	14%	38%	14%	100%

Area 9					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	21%	10%	33%	7%	71%
2	0%	0%	2%	0%	2%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	2%	5%	7%
10 to 14	2%	0%	0%	2%	5%
15 to 19	0%	0%	5%	7%	12%
20+	0%	0%	2%	0%	2%
TOTAL	24%	10%	45%	21%	100%

Southern Cape Inshore					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	24%	8%	3%	3%	38%
2	0%	0%	0%	0%	0%
3 to 4	3%	0%	0%	0%	3%
5 to 9	3%	0%	3%	3%	8%
10 to 14	8%	16%	5%	3%	32%
15 to 19	3%	8%	3%	0%	14%
20+	0%	0%	5%	0%	5%
TOTAL	41%	32%	19%	8%	100%

Area 14					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	55%	14%	5%	5%	77%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	0%	0%	0%
10 to 14	5%	5%	9%	0%	18%
15 to 19	0%	5%	0%	0%	5%
20+	0%	0%	0%	0%	0%
TOTAL	59%	23%	14%	5%	100%

Area 16					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	4%	4%
5 to 9	4%	0%	0%	0%	4%
10 to 14	8%	8%	4%	0%	19%
15 to 19	0%	4%	0%	15%	19%
20+	0%	4%	8%	42%	54%
TOTAL	12%	15%	12%	62%	100%

Area 18					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	8%	0%	0%	0%	8%
2	0%	0%	8%	0%	8%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	8%	0%	0%	8%
10 to 14	0%	8%	0%	8%	17%
15 to 19	0%	17%	17%	0%	33%
20+	0%	0%	0%	25%	25%
TOTAL	8%	33%	25%	33%	100%

Area 19					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	3%	0%	0%	3%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	3%	3%	0%	0%	6%
10 to 14	3%	23%	13%	3%	42%
15 to 19	6%	0%	3%	0%	10%
20+	6%	6%	13%	13%	39%
TOTAL	19%	35%	29%	16%	100%

JULY

Number of Respondents

Area 1					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	6	0	0	0	6
2	2	0	0	0	2
3 to 4	2	2	0	0	4
5 to 9	1	1	0	1	3
10 to 14	0	3	4	4	11
15 to 19	0	0	0	0	0
20+	0	0	0	0	0
TOTAL	11	6	4	5	26

Area 2					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	22	2	0	0	24
2	3	2	0	0	5
3 to 4	6	3	1	1	11
5 to 9	7	13	8	7	35
10 to 14	4	6	13	30	53
15 to 19	1	2	5	0	8
20+	0	2	5	7	14
TOTAL	43	30	32	45	150

Area 3					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	11	0	0	2	13
2	1	0	1	0	2
3 to 4	1	1	0	0	2
5 to 9	3	3	6	5	17
10 to 14	5	5	10	8	28
15 to 19	1	6	7	6	20
20+	1	3	5	5	14
TOTAL	23	18	29	26	96

Area 4					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	14	1	0	0	15
2	2	0	1	0	3
3 to 4	0	1	0	0	1
5 to 9	1	3	2	0	6
10 to 14	4	3	8	8	23
15 to 19	0	0	8	17	25
20+	1	3	7	20	31
TOTAL	22	11	26	45	104

Area 5					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	9	0	0	1	10
2	0	1	0	0	1
3 to 4	0	0	0	0	0
5 to 9	3	0	2	0	5
10 to 14	4	10	11	18	43
15 to 19	0	2	3	2	7
20+	1	1	4	5	11
TOTAL	17	14	20	26	77

Area 6					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	13	1	2	0	16
2	0	0	1	0	1
3 to 4	0	0	0	0	0
5 to 9	1	2	1	3	7
10 to 14	1	2	8	7	18
15 to 19	0	1	1	3	5
20+	0	2	1	1	4
TOTAL	15	8	14	14	51

Area 7					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	9	8	4	8	29
2	2	0	1	1	4
3 to 4	0	0	0	0	0
5 to 9	0	1	1	0	2
10 to 14	0	1	3	2	6
15 to 19	0	0	0	0	0
20+	0	1	0	2	3
TOTAL	11	11	9	13	44

Area 8					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	5	1	6	2	14
2	0	0	1	0	1
3 to 4	0	0	0	0	0
5 to 9	1	0	1	2	4
10 to 14	1	1	2	0	4
15 to 19	0	0	1	0	1
20+	1	0	2	1	4
TOTAL	8	2	13	5	28

Area 9					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	10	2	15	6	33
2	0	0	0	1	1
3 to 4	0	0	0	0	0
5 to 9	0	0	2	2	4
10 to 14	0	1	0	1	2
15 to 19	0	0	1	3	4
20+	0	0	1	0	1
TOTAL	10	3	19	13	45

Southern Cape Inshore					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	10	2	4	0	16
2	0	1	3	1	5
3 to 4	1	0	0	0	1
5 to 9	1	1	0	1	3
10 to 14	3	3	4	1	11
15 to 19	2	1	2	0	5
20+	0	0	1	0	1
TOTAL	17	8	14	3	42

Area 14					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	12	2	2	1	17
2	0	0	2	0	2
3 to 4	0	0	0	0	0
5 to 9	0	0	0	0	0
10 to 14	0	2	1	0	3
15 to 19	0	1	0	0	1
20+	0	0	0	0	0
TOTAL	12	5	5	1	23

Area 16					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	0	0
2	0	0	0	0	0
3 to 4	0	0	0	1	1
5 to 9	0	1	0	0	1
10 to 14	1	1	3	0	5
15 to 19	0	1	1	5	7
20+	0	1	2	11	14
TOTAL	1	4	6	17	28

Area 18					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	1	0	0	0	1
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	1	0	1	0	2
10 to 14	0	1	0	1	2
15 to 19	0	2	1	0	3
20+	0	0	0	3	3
TOTAL	2	3	2	4	11

Area 19					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	1	0	0	1
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	1	1	0	0	2
10 to 14	2	5	2	1	10
15 to 19	1	0	3	0	4
20+	3	2	4	1	10
TOTAL	7	9	9	2	27

JULY

Percentage of Respondents

Area 1					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	23%	0%	0%	0%	23%
2	8%	0%	0%	0%	8%
3 to 4	8%	8%	0%	0%	15%
5 to 9	4%	4%	0%	4%	12%
10 to 14	0%	12%	15%	15%	42%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	42%	23%	15%	19%	100%

Area 2					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	15%	1%	0%	0%	16%
2	2%	1%	0%	0%	3%
3 to 4	4%	2%	1%	1%	7%
5 to 9	5%	9%	5%	5%	23%
10 to 14	3%	4%	9%	20%	35%
15 to 19	1%	1%	3%	0%	5%
20+	0%	1%	3%	5%	9%
TOTAL	29%	20%	21%	30%	100%

Area 3					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	11%	0%	0%	2%	14%
2	1%	0%	1%	0%	2%
3 to 4	1%	1%	0%	0%	2%
5 to 9	3%	3%	6%	5%	18%
10 to 14	5%	5%	10%	8%	29%
15 to 19	1%	6%	7%	6%	21%
20+	1%	3%	5%	5%	15%
TOTAL	24%	19%	30%	27%	100%

Area 4					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	13%	1%	0%	0%	14%
2	2%	0%	1%	0%	3%
3 to 4	0%	1%	0%	0%	1%
5 to 9	1%	3%	2%	0%	6%
10 to 14	4%	3%	8%	8%	22%
15 to 19	0%	0%	8%	16%	24%
20+	1%	3%	7%	19%	30%
TOTAL	21%	11%	25%	43%	100%

Area 5					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	12%	0%	0%	1%	13%
2	0%	1%	0%	0%	1%
3 to 4	0%	0%	0%	0%	0%
5 to 9	4%	0%	3%	0%	6%
10 to 14	5%	13%	14%	23%	56%
15 to 19	0%	3%	4%	3%	9%
20+	1%	1%	5%	6%	14%
TOTAL	22%	18%	26%	34%	100%

Area 6					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	25%	2%	4%	0%	31%
2	0%	0%	2%	0%	2%
3 to 4	0%	0%	0%	0%	0%
5 to 9	2%	4%	2%	6%	14%
10 to 14	2%	4%	16%	14%	35%
15 to 19	0%	2%	2%	6%	10%
20+	0%	4%	2%	2%	8%
TOTAL	29%	16%	27%	27%	100%

Area 7					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	20%	18%	9%	18%	66%
2	5%	0%	2%	2%	9%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	2%	2%	0%	5%
10 to 14	0%	2%	7%	5%	14%
15 to 19	0%	0%	0%	0%	0%
20+	0%	2%	0%	5%	7%
TOTAL	25%	25%	20%	30%	100%

Area 8					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	18%	4%	21%	7%	50%
2	0%	0%	4%	0%	4%
3 to 4	0%	0%	0%	0%	0%
5 to 9	4%	0%	4%	7%	14%
10 to 14	4%	4%	7%	0%	14%
15 to 19	0%	0%	4%	0%	4%
20+	4%	0%	7%	4%	14%
TOTAL	29%	7%	46%	18%	100%

Area 9					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	22%	4%	33%	13%	73%
2	0%	0%	0%	2%	2%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	4%	4%	9%
10 to 14	0%	2%	0%	2%	4%
15 to 19	0%	0%	2%	7%	9%
20+	0%	0%	2%	0%	2%
TOTAL	22%	7%	42%	29%	100%

Southern Cape Inshore					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	24%	5%	10%	0%	38%
2	0%	2%	7%	2%	12%
3 to 4	2%	0%	0%	0%	2%
5 to 9	2%	2%	0%	2%	7%
10 to 14	7%	7%	10%	2%	26%
15 to 19	5%	2%	5%	0%	12%
20+	0%	0%	2%	0%	2%
TOTAL	40%	19%	33%	7%	100%

Area 14					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	52%	9%	9%	4%	74%
2	0%	0%	9%	0%	9%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	0%	0%	0%
10 to 14	0%	9%	4%	0%	13%
15 to 19	0%	4%	0%	0%	4%
20+	0%	0%	0%	0%	0%
TOTAL	52%	22%	22%	4%	100%

Area 16					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	4%	4%
5 to 9	0%	4%	0%	0%	4%
10 to 14	4%	4%	11%	0%	18%
15 to 19	0%	4%	4%	18%	25%
20+	0%	4%	7%	39%	50%
TOTAL	4%	14%	21%	61%	100%

Area 18					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	9%	0%	0%	0%	9%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	9%	0%	9%	0%	18%
10 to 14	0%	9%	0%	9%	18%
15 to 19	0%	18%	9%	0%	27%
20+	0%	0%	0%	27%	27%
TOTAL	18%	27%	18%	36%	100%

Area 19					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	4%	0%	0%	4%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	4%	4%	0%	0%	7%
10 to 14	7%	19%	7%	4%	37%
15 to 19	4%	0%	11%	0%	15%
20+	11%	7%	15%	4%	37%
TOTAL	26%	33%	33%	7%	100%

AUGUST

Number of Respondents

Area 1					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	4	0	0	0	4
2	2	0	0	0	2
3 to 4	2	2	0	0	4
5 to 9	1	1	0	1	3
10 to 14	0	3	4	4	11
15 to 19	1	0	0	0	1
20+	0	0	0	0	0
TOTAL	10	6	4	5	25

Area 2					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	22	2	0	0	24
2	3	2	0	0	5
3 to 4	5	3	1	1	10
5 to 9	8	13	11	7	39
10 to 14	5	7	16	32	60
15 to 19	1	1	7	1	10
20+	1	2	5	8	16
TOTAL	45	30	40	49	164

Area 3					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	10	1	0	2	13
2	0	1	1	0	2
3 to 4	1	1	0	0	2
5 to 9	2	6	6	7	21
10 to 14	4	7	14	8	33
15 to 19	1	5	12	5	23
20+	2	1	7	4	14
TOTAL	20	22	40	26	108

Area 4					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	15	1	0	0	16
2	2	0	1	0	3
3 to 4	0	1	0	0	1
5 to 9	2	2	3	1	8
10 to 14	4	2	10	7	23
15 to 19	0	0	10	17	27
20+	0	2	8	19	29
TOTAL	23	8	32	44	107

Area 5					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	10	0	0	1	11
2	0	1	0	0	1
3 to 4	0	0	0	0	0
5 to 9	4	0	1	0	5
10 to 14	3	11	12	17	43
15 to 19	0	0	6	3	9
20+	0	2	3	5	10
TOTAL	17	14	22	26	79

Area 6					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	12	2	2	0	16
2	0	0	1	0	1
3 to 4	0	0	0	0	0
5 to 9	2	1	2	5	10
10 to 14	1	1	8	7	17
15 to 19	0	0	2	2	4
20+	1	0	1	2	4
TOTAL	16	4	16	16	52

Area 7					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	8	12	5	8	33
2	1	0	2	1	4
3 to 4	0	0	0	0	0
5 to 9	0	1	0	0	1
10 to 14	0	0	4	2	6
15 to 19	0	0	1	0	1
20+	0	1	0	2	3
TOTAL	9	14	12	13	48

Area 8					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	5	1	6	2	14
2	0	0	1	1	2
3 to 4	0	0	0	0	0
5 to 9	1	0	1	0	2
10 to 14	1	3	3	1	8
15 to 19	0	0	0	0	0
20+	0	1	3	3	7
TOTAL	7	5	14	7	33

Area 9					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	11	1	15	6	33
2	0	0	0	1	1
3 to 4	0	0	0	0	0
5 to 9	0	0	1	1	2
10 to 14	1	1	1	0	3
15 to 19	0	0	2	3	5
20+	0	0	0	1	1
TOTAL	12	2	19	12	45

Southern Cape Inshore					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	11	4	4	0	19
2	0	1	4	1	6
3 to 4	1	0	0	0	1
5 to 9	2	0	0	1	3
10 to 14	5	1	4	1	11
15 to 19	2	1	2	0	5
20+	0	0	1	0	1
TOTAL	21	7	15	3	46

Area 14					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	11	2	0	0	13
2	0	0	1	0	1
3 to 4	1	0	0	0	1
5 to 9	0	0	0	0	0
10 to 14	2	0	1	0	3
15 to 19	0	0	0	0	0
20+	0	0	0	0	0
TOTAL	14	2	2	0	18

Area 16					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	1	0	0	0	1
2	0	0	1	0	1
3 to 4	0	0	0	1	1
5 to 9	0	0	1	0	1
10 to 14	1	0	4	0	5
15 to 19	0	0	2	5	7
20+	0	0	3	11	14
TOTAL	2	0	11	17	30

Area 18					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	1	0	0	0	1
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	0	0	0
10 to 14	0	0	0	2	2
15 to 19	0	1	2	0	3
20+	0	1	0	3	4
TOTAL	1	2	2	5	10

Area 19					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	1	0	0	1
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	1	0	0	1
10 to 14	4	5	4	2	15
15 to 19	2	0	2	0	4
20+	3	4	6	2	15
TOTAL	9	11	12	4	36

AUGUST

Percentage of Respondents

Area 1					
Traps per Trawl	Number of Traps per Vessel				TOTAL
	1 to 100	101 to 200	201 to 400	401+	
1	16%	0%	0%	0%	16%
2	8%	0%	0%	0%	8%
3 to 4	8%	8%	0%	0%	16%
5 to 9	4%	4%	0%	4%	12%
10 to 14	0%	12%	16%	16%	44%
15 to 19	4%	0%	0%	0%	4%
20+	0%	0%	0%	0%	0%
TOTAL	40%	24%	16%	20%	100%

Area 2					
Traps per Trawl	Number of Traps per Vessel				TOTAL
	1 to 100	101 to 200	201 to 400	401+	
1	13%	1%	0%	0%	15%
2	2%	1%	0%	0%	3%
3 to 4	3%	2%	1%	1%	6%
5 to 9	5%	8%	7%	4%	24%
10 to 14	3%	4%	10%	20%	37%
15 to 19	1%	1%	4%	1%	6%
20+	1%	1%	3%	5%	10%
TOTAL	27%	18%	24%	30%	100%

Area 3					
Traps per Trawl	Number of Traps per Vessel				TOTAL
	1 to 100	101 to 200	201 to 400	401+	
1	9%	1%	0%	2%	12%
2	0%	1%	1%	0%	2%
3 to 4	1%	1%	0%	0%	2%
5 to 9	2%	6%	6%	6%	19%
10 to 14	4%	6%	13%	7%	31%
15 to 19	1%	5%	11%	5%	21%
20+	2%	1%	6%	4%	13%
TOTAL	19%	20%	37%	24%	100%

Area 4					
Traps per Trawl	Number of Traps per Vessel				TOTAL
	1 to 100	101 to 200	201 to 400	401+	
1	14%	1%	0%	0%	15%
2	2%	0%	1%	0%	3%
3 to 4	0%	1%	0%	0%	1%
5 to 9	2%	2%	3%	1%	7%
10 to 14	4%	2%	9%	7%	21%
15 to 19	0%	0%	9%	16%	25%
20+	0%	2%	7%	18%	27%
TOTAL	21%	7%	30%	41%	100%

Area 5					
Traps per Trawl	Number of Traps per Vessel				TOTAL
	1 to 100	101 to 200	201 to 400	401+	
1	13%	0%	0%	1%	14%
2	0%	1%	0%	0%	1%
3 to 4	0%	0%	0%	0%	0%
5 to 9	5%	0%	1%	0%	6%
10 to 14	4%	14%	15%	22%	54%
15 to 19	0%	0%	8%	4%	11%
20+	0%	3%	4%	6%	13%
TOTAL	22%	18%	28%	33%	100%

Area 6					
Traps per Trawl	Number of Traps per Vessel				TOTAL
	1 to 100	101 to 200	201 to 400	401+	
1	23%	4%	4%	0%	31%
2	0%	0%	2%	0%	2%
3 to 4	0%	0%	0%	0%	0%
5 to 9	4%	2%	4%	10%	19%
10 to 14	2%	2%	15%	13%	33%
15 to 19	0%	0%	4%	4%	8%
20+	2%	0%	2%	4%	8%
TOTAL	31%	8%	31%	31%	100%

Area 7					
Traps per Trawl	Number of Traps per Vessel				TOTAL
	1 to 100	101 to 200	201 to 400	401+	
1	17%	25%	10%	17%	69%
2	2%	0%	4%	2%	8%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	2%	0%	0%	2%
10 to 14	0%	0%	8%	4%	13%
15 to 19	0%	0%	2%	0%	2%
20+	0%	2%	0%	4%	6%
TOTAL	19%	29%	25%	27%	100%

Area 8					
Traps per Trawl	Number of Traps per Vessel				TOTAL
	1 to 100	101 to 200	201 to 400	401+	
1	15%	3%	18%	6%	42%
2	0%	0%	3%	3%	6%
3 to 4	0%	0%	0%	0%	0%
5 to 9	3%	0%	3%	0%	6%
10 to 14	3%	9%	9%	3%	24%
15 to 19	0%	0%	0%	0%	0%
20+	0%	3%	9%	9%	21%
TOTAL	21%	15%	42%	21%	100%

Area 9					
Traps per Trawl	Number of Traps per Vessel				TOTAL
	1 to 100	101 to 200	201 to 400	401+	
1	24%	2%	33%	13%	73%
2	0%	0%	0%	2%	2%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	2%	2%	4%
10 to 14	2%	2%	2%	0%	7%
15 to 19	0%	0%	4%	7%	11%
20+	0%	0%	0%	2%	2%
TOTAL	27%	4%	42%	27%	100%

Southern Cape Inshore					
Traps per Trawl	Number of Traps per Vessel				TOTAL
	1 to 100	101 to 200	201 to 400	401+	
1	24%	9%	9%	0%	41%
2	0%	2%	9%	2%	13%
3 to 4	2%	0%	0%	0%	2%
5 to 9	4%	0%	0%	2%	7%
10 to 14	11%	2%	9%	2%	24%
15 to 19	4%	2%	4%	0%	11%
20+	0%	0%	2%	0%	2%
TOTAL	46%	15%	33%	7%	100%

Area 14					
Traps per Trawl	Number of Traps per Vessel				TOTAL
	1 to 100	101 to 200	201 to 400	401+	
1	61%	11%	0%	0%	72%
2	0%	0%	6%	0%	6%
3 to 4	6%	0%	0%	0%	6%
5 to 9	0%	0%	0%	0%	0%
10 to 14	11%	0%	6%	0%	17%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	78%	11%	11%	0%	100%

Area 16					
Traps per Trawl	Number of Traps per Vessel				TOTAL
	1 to 100	101 to 200	201 to 400	401+	
1	3%	0%	0%	0%	3%
2	0%	0%	3%	0%	3%
3 to 4	0%	0%	0%	3%	3%
5 to 9	0%	0%	3%	0%	3%
10 to 14	3%	0%	13%	0%	17%
15 to 19	0%	0%	7%	17%	23%
20+	0%	0%	10%	37%	47%
TOTAL	7%	0%	37%	57%	100%

Area 18					
Traps per Trawl	Number of Traps per Vessel				TOTAL
	1 to 100	101 to 200	201 to 400	401+	
1	10%	0%	0%	0%	10%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	0%	0%	0%
10 to 14	0%	0%	0%	20%	20%
15 to 19	0%	10%	20%	0%	30%
20+	0%	10%	0%	30%	40%
TOTAL	10%	20%	20%	50%	100%

Area 19					
Traps per Trawl	Number of Traps per Vessel				TOTAL
	1 to 100	101 to 200	201 to 400	401+	
1	0%	3%	0%	0%	3%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	3%	0%	0%	3%
10 to 14	11%	14%	11%	6%	42%
15 to 19	6%	0%	6%	0%	11%
20+	8%	11%	17%	6%	42%
TOTAL	25%	31%	33%	11%	100%

SEPTEMBER

Number of Respondents

Area 1					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	5	0	0	0	5
2	2	0	0	0	2
3 to 4	3	2	0	0	5
5 to 9	1	1	1	1	4
10 to 14	0	2	5	4	11
15 to 19	0	0	0	0	0
20+	0	0	0	0	0
TOTAL	11	5	6	5	27

Area 2					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	18	1	1	0	20
2	2	2	0	0	4
3 to 4	4	4	1	1	10
5 to 9	9	11	15	7	42
10 to 14	3	6	16	28	53
15 to 19	2	3	9	1	15
20+	2	4	8	5	19
TOTAL	40	31	50	42	163

Area 3					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	7	0	0	2	9
2	1	1	1	0	3
3 to 4	3	1	0	0	4
5 to 9	3	6	6	7	22
10 to 14	3	9	12	7	31
15 to 19	1	4	14	8	27
20+	3	1	7	4	15
TOTAL	21	22	40	28	111

Area 4					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	15	1	0	0	16
2	2	0	2	0	4
3 to 4	0	1	0	0	1
5 to 9	2	3	3	0	8
10 to 14	2	4	9	8	23
15 to 19	0	0	14	13	27
20+	0	2	9	20	31
TOTAL	21	11	37	41	110

Area 5					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	6	1	0	0	7
2	1	0	0	0	1
3 to 4	0	0	0	0	0
5 to 9	4	0	1	0	5
10 to 14	1	13	13	14	41
15 to 19	0	2	5	3	10
20+	0	4	5	3	12
TOTAL	12	20	24	20	76

Area 6					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	11	2	2	0	15
2	0	0	1	0	1
3 to 4	0	0	0	0	0
5 to 9	2	0	3	5	10
10 to 14	1	4	7	6	18
15 to 19	0	0	2	2	4
20+	1	0	0	2	3
TOTAL	15	6	15	15	51

Area 7					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	10	14	6	8	38
2	0	1	1	1	3
3 to 4	0	0	0	0	0
5 to 9	1	0	0	0	1
10 to 14	0	1	6	1	8
15 to 19	0	0	1	0	1
20+	0	0	1	2	3
TOTAL	11	16	15	12	54

Area 8					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	6	1	7	1	15
2	0	0	0	2	2
3 to 4	0	0	0	0	0
5 to 9	1	1	1	1	4
10 to 14	0	5	5	2	12
15 to 19	0	0	0	0	0
20+	0	1	3	7	11
TOTAL	7	8	16	13	44

Area 9					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	12	5	13	3	33
2	0	0	0	1	1
3 to 4	0	0	0	0	0
5 to 9	0	0	1	1	2
10 to 14	0	1	0	0	1
15 to 19	0	2	2	1	5
20+	0	0	0	1	1
TOTAL	12	8	16	7	43

Southern Cape Inshore					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	5	3	3	0	11
2	0	0	4	0	4
3 to 4	0	0	0	0	0
5 to 9	1	0	0	0	1
10 to 14	4	1	4	0	9
15 to 19	0	1	0	0	1
20+	0	0	1	0	1
TOTAL	10	5	12	0	27

Area 14					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	3	2	0	0	5
2	0	0	2	0	2
3 to 4	1	0	0	0	1
5 to 9	0	0	0	0	0
10 to 14	1	1	0	0	2
15 to 19	0	0	0	0	0
20+	0	0	0	0	0
TOTAL	5	3	2	0	10

Area 16					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	1	0	0	0	1
2	0	0	1	0	1
3 to 4	0	0	0	1	1
5 to 9	0	0	1	0	1
10 to 14	1	0	3	1	5
15 to 19	0	0	0	4	4
20+	0	0	3	12	15
TOTAL	2	0	8	18	28

Area 18					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	0	0
2	0	1	0	0	1
3 to 4	0	0	0	0	0
5 to 9	0	0	1	0	1
10 to 14	0	0	0	0	0
15 to 19	0	0	2	4	6
20+	0	1	0	4	5
TOTAL	0	2	3	8	13

Area 19					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	1	0	0	1	2
2	1	0	0	0	1
3 to 4	0	0	0	0	0
5 to 9	2	1	1	0	4
10 to 14	5	9	8	1	23
15 to 19	2	2	2	0	6
20+	1	7	13	6	27
TOTAL	12	19	24	8	63

SEPTEMBER

Percentage of Respondents

Area 1					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	19%	0%	0%	0%	19%
2	7%	0%	0%	0%	7%
3 to 4	11%	7%	0%	0%	19%
5 to 9	4%	4%	4%	4%	15%
10 to 14	0%	7%	19%	15%	41%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	41%	19%	22%	19%	100%

Area 2					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	11%	1%	1%	0%	12%
2	1%	1%	0%	0%	2%
3 to 4	2%	2%	1%	1%	6%
5 to 9	6%	7%	9%	4%	26%
10 to 14	2%	4%	10%	17%	33%
15 to 19	1%	2%	6%	1%	9%
20+	1%	2%	5%	3%	12%
TOTAL	25%	19%	31%	26%	100%

Area 3					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	6%	0%	0%	2%	8%
2	1%	1%	1%	0%	3%
3 to 4	3%	1%	0%	0%	4%
5 to 9	3%	5%	5%	6%	20%
10 to 14	3%	8%	11%	6%	28%
15 to 19	1%	4%	13%	7%	24%
20+	3%	1%	6%	4%	14%
TOTAL	19%	20%	36%	25%	100%

Area 4					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	14%	1%	0%	0%	15%
2	2%	0%	2%	0%	4%
3 to 4	0%	1%	0%	0%	1%
5 to 9	2%	3%	3%	0%	7%
10 to 14	2%	4%	8%	7%	21%
15 to 19	0%	0%	13%	12%	25%
20+	0%	2%	8%	18%	28%
TOTAL	19%	10%	34%	37%	100%

Area 5					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	8%	1%	0%	0%	9%
2	1%	0%	0%	0%	1%
3 to 4	0%	0%	0%	0%	0%
5 to 9	5%	0%	1%	0%	7%
10 to 14	1%	17%	17%	18%	54%
15 to 19	0%	3%	7%	4%	13%
20+	0%	5%	7%	4%	16%
TOTAL	16%	26%	32%	26%	100%

Area 6					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	22%	4%	4%	0%	29%
2	0%	0%	2%	0%	2%
3 to 4	0%	0%	0%	0%	0%
5 to 9	4%	0%	6%	10%	20%
10 to 14	2%	8%	14%	12%	35%
15 to 19	0%	0%	4%	4%	8%
20+	2%	0%	0%	4%	6%
TOTAL	29%	12%	29%	29%	100%

Area 7					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	19%	26%	11%	15%	70%
2	0%	2%	2%	2%	6%
3 to 4	0%	0%	0%	0%	0%
5 to 9	2%	0%	0%	0%	2%
10 to 14	0%	2%	11%	2%	15%
15 to 19	0%	0%	2%	0%	2%
20+	0%	0%	2%	4%	6%
TOTAL	20%	30%	28%	22%	100%

Area 8					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	14%	2%	16%	2%	34%
2	0%	0%	0%	5%	5%
3 to 4	0%	0%	0%	0%	0%
5 to 9	2%	2%	2%	2%	9%
10 to 14	0%	11%	11%	5%	27%
15 to 19	0%	0%	0%	0%	0%
20+	0%	2%	7%	16%	25%
TOTAL	16%	18%	36%	30%	100%

Area 9					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	28%	12%	30%	7%	77%
2	0%	0%	0%	2%	2%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	2%	2%	5%
10 to 14	0%	2%	0%	0%	2%
15 to 19	0%	5%	5%	2%	12%
20+	0%	0%	0%	2%	2%
TOTAL	28%	19%	37%	16%	100%

Southern Cape Inshore					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	19%	11%	11%	0%	41%
2	0%	0%	15%	0%	15%
3 to 4	0%	0%	0%	0%	0%
5 to 9	4%	0%	0%	0%	4%
10 to 14	15%	4%	15%	0%	33%
15 to 19	0%	4%	0%	0%	4%
20+	0%	0%	4%	0%	4%
TOTAL	37%	19%	44%	0%	100%

Area 14					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	30%	20%	0%	0%	50%
2	0%	0%	20%	0%	20%
3 to 4	10%	0%	0%	0%	10%
5 to 9	0%	0%	0%	0%	0%
10 to 14	10%	10%	0%	0%	20%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	50%	30%	20%	0%	100%

Area 16					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	4%	0%	0%	0%	4%
2	0%	0%	4%	0%	4%
3 to 4	0%	0%	0%	4%	4%
5 to 9	0%	0%	4%	0%	4%
10 to 14	4%	0%	11%	4%	18%
15 to 19	0%	0%	0%	14%	14%
20+	0%	0%	11%	43%	54%
TOTAL	7%	0%	29%	64%	100%

Area 18					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	8%	0%	0%	8%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	8%	0%	8%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	0%	15%	31%	46%
20+	0%	8%	0%	31%	38%
TOTAL	0%	15%	23%	62%	100%

Area 19					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	2%	0%	0%	2%	3%
2	2%	0%	0%	0%	2%
3 to 4	0%	0%	0%	0%	0%
5 to 9	3%	2%	2%	0%	6%
10 to 14	8%	14%	13%	2%	37%
15 to 19	3%	3%	3%	0%	10%
20+	2%	11%	21%	10%	43%
TOTAL	19%	30%	38%	13%	100%

OCTOBER

Number of Respondents

Area 1					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	3	0	0	0	3
2	1	0	0	0	1
3 to 4	0	1	0	0	1
5 to 9	0	1	2	0	3
10 to 14	1	1	2	3	7
15 to 19	0	0	0	0	0
20+	0	1	2	0	3
TOTAL	5	4	6	3	18

Area 2					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	8	1	1	0	10
2	1	1	1	0	3
3 to 4	3	1	1	1	6
5 to 9	4	14	14	4	36
10 to 14	4	8	18	20	50
15 to 19	2	4	7	1	14
20+	2	4	11	5	22
TOTAL	24	33	53	31	141

Area 3					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	4	0	1	1	6
2	1	2	1	0	4
3 to 4	3	1	0	0	4
5 to 9	5	3	8	5	21
10 to 14	4	10	10	6	30
15 to 19	0	6	11	8	25
20+	3	4	4	4	15
TOTAL	20	26	35	24	105

Area 4					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	5	1	0	0	6
2	2	0	1	0	3
3 to 4	0	1	0	0	1
5 to 9	3	1	4	0	8
10 to 14	2	6	8	7	23
15 to 19	0	5	11	11	27
20+	0	4	11	15	30
TOTAL	12	18	35	33	98

Area 5					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	4	0	0	0	4
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	1	0	2	0	3
10 to 14	4	10	13	12	39
15 to 19	0	4	4	2	10
20+	1	5	5	1	12
TOTAL	10	19	24	15	68

Area 6					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	9	1	1	0	11
2	0	0	0	0	0
3 to 4	0	0	1	0	1
5 to 9	1	0	4	4	9
10 to 14	2	2	7	4	15
15 to 19	0	1	2	1	4
20+	1	0	1	1	3
TOTAL	13	4	16	10	43

Area 7					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	3	9	10	5	27
2	0	0	0	1	1
3 to 4	0	0	0	0	0
5 to 9	0	1	0	0	1
10 to 14	0	1	5	2	8
15 to 19	1	0	1	0	2
20+	0	0	2	1	3
TOTAL	4	11	18	9	42

Area 8					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	3	4	3	0	10
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	1	0	2	2	5
10 to 14	0	3	6	3	12
15 to 19	0	1	3	0	4
20+	0	2	4	8	14
TOTAL	4	10	18	13	45

Area 9					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	6	4	12	0	22
2	0	0	1	0	1
3 to 4	0	0	0	0	0
5 to 9	0	1	0	0	1
10 to 14	0	1	0	0	1
15 to 19	0	0	1	0	1
20+	0	0	0	1	1
TOTAL	6	6	14	1	27

Southern Cape Inshore					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	1	2	0	0	3
2	0	2	0	0	2
3 to 4	0	0	0	0	0
5 to 9	1	0	0	0	1
10 to 14	3	2	0	0	5
15 to 19	0	0	1	0	1
20+	0	0	0	0	0
TOTAL	5	6	1	0	12

Area 14					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	1	1	0	0	2
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	0	0	0
10 to 14	0	1	0	0	1
15 to 19	0	0	0	0	0
20+	0	0	0	0	0
TOTAL	1	2	0	0	3

Area 16					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	0	0
2	0	0	1	1	2
3 to 4	0	0	0	0	0
5 to 9	0	1	0	0	1
10 to 14	1	1	2	0	4
15 to 19	1	0	1	2	4
20+	0	0	2	12	14
TOTAL	2	2	6	15	25

Area 18					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	0	0
2	0	0	0	0	0
3 to 4	0	0	0	1	1
5 to 9	0	0	0	1	1
10 to 14	0	0	0	0	0
15 to 19	0	0	0	6	6
20+	0	1	0	4	5
TOTAL	0	1	0	12	13

Area 19					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	1	1
2	1	0	0	0	1
3 to 4	0	0	0	0	0
5 to 9	3	1	1	0	5
10 to 14	4	6	12	4	26
15 to 19	2	5	9	4	20
20+	1	6	18	14	39
TOTAL	11	18	40	23	92

OCTOBER

Percentage of Respondents

Area 1						
Number of Traps per Vessel						
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL	
1	17%	0%	0%	0%	0%	17%
2	6%	0%	0%	0%	0%	6%
3 to 4	0%	6%	0%	0%	0%	6%
5 to 9	0%	6%	11%	0%	0%	17%
10 to 14	6%	6%	11%	17%	0%	39%
15 to 19	0%	0%	0%	0%	0%	0%
20+	0%	6%	11%	0%	0%	17%
TOTAL	28%	22%	33%	17%	0%	100%

Area 2						
Number of Traps per Vessel						
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL	
1	6%	1%	1%	0%	0%	7%
2	1%	1%	1%	0%	0%	2%
3 to 4	2%	1%	1%	1%	0%	4%
5 to 9	3%	10%	10%	3%	0%	26%
10 to 14	3%	6%	13%	14%	0%	35%
15 to 19	1%	3%	5%	1%	0%	10%
20+	1%	3%	8%	4%	0%	16%
TOTAL	17%	23%	38%	22%	0%	100%

Area 3						
Number of Traps per Vessel						
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL	
1	4%	0%	1%	1%	0%	6%
2	1%	2%	1%	0%	0%	4%
3 to 4	3%	1%	0%	0%	0%	4%
5 to 9	5%	3%	8%	5%	0%	20%
10 to 14	4%	10%	10%	6%	0%	29%
15 to 19	0%	6%	10%	8%	0%	24%
20+	3%	4%	4%	4%	0%	14%
TOTAL	19%	25%	33%	23%	0%	100%

Area 4						
Number of Traps per Vessel						
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL	
1	5%	1%	0%	0%	0%	6%
2	2%	0%	1%	0%	0%	3%
3 to 4	0%	1%	0%	0%	0%	1%
5 to 9	3%	1%	4%	0%	0%	8%
10 to 14	2%	6%	8%	7%	0%	23%
15 to 19	0%	5%	11%	11%	0%	28%
20+	0%	4%	11%	15%	0%	31%
TOTAL	12%	18%	36%	34%	0%	100%

Area 5						
Number of Traps per Vessel						
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL	
1	6%	0%	0%	0%	0%	6%
2	0%	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%	0%
5 to 9	1%	0%	3%	0%	0%	4%
10 to 14	6%	15%	19%	18%	0%	57%
15 to 19	0%	6%	6%	3%	0%	15%
20+	1%	7%	7%	1%	0%	18%
TOTAL	15%	28%	35%	22%	0%	100%

Area 6						
Number of Traps per Vessel						
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL	
1	21%	2%	2%	0%	0%	26%
2	0%	0%	0%	0%	0%	0%
3 to 4	0%	0%	2%	0%	0%	2%
5 to 9	2%	0%	9%	9%	0%	21%
10 to 14	5%	5%	16%	9%	0%	35%
15 to 19	0%	2%	5%	2%	0%	9%
20+	2%	0%	2%	2%	0%	7%
TOTAL	30%	9%	37%	23%	0%	100%

Area 7						
Number of Traps per Vessel						
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL	
1	7%	21%	24%	12%	0%	64%
2	0%	0%	0%	2%	0%	2%
3 to 4	0%	0%	0%	0%	0%	0%
5 to 9	0%	2%	0%	0%	0%	2%
10 to 14	0%	2%	12%	5%	0%	19%
15 to 19	2%	0%	2%	0%	0%	5%
20+	0%	0%	5%	2%	0%	7%
TOTAL	10%	26%	43%	21%	0%	100%

Area 8						
Number of Traps per Vessel						
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL	
1	7%	9%	7%	0%	0%	22%
2	0%	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%	0%
5 to 9	2%	0%	4%	4%	0%	11%
10 to 14	0%	7%	13%	7%	0%	27%
15 to 19	0%	2%	7%	0%	0%	9%
20+	0%	4%	9%	18%	0%	31%
TOTAL	9%	22%	40%	29%	0%	100%

Area 9						
Number of Traps per Vessel						
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL	
1	22%	15%	44%	0%	0%	81%
2	0%	0%	4%	0%	0%	4%
3 to 4	0%	0%	0%	0%	0%	0%
5 to 9	0%	4%	0%	0%	0%	4%
10 to 14	0%	4%	0%	0%	0%	4%
15 to 19	0%	0%	4%	0%	0%	4%
20+	0%	0%	0%	4%	0%	4%
TOTAL	22%	22%	52%	4%	0%	100%

Southern Cape Inshore						
Number of Traps per Vessel						
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL	
1	8%	17%	0%	0%	0%	25%
2	0%	17%	0%	0%	0%	17%
3 to 4	0%	0%	0%	0%	0%	0%
5 to 9	8%	0%	0%	0%	0%	8%
10 to 14	25%	17%	0%	0%	0%	42%
15 to 19	0%	0%	8%	0%	0%	8%
20+	0%	0%	0%	0%	0%	0%
TOTAL	42%	50%	8%	0%	0%	100%

Area 14						
Number of Traps per Vessel						
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL	
1	33%	33%	0%	0%	0%	67%
2	0%	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%	0%
5 to 9	0%	0%	0%	0%	0%	0%
10 to 14	0%	33%	0%	0%	0%	33%
15 to 19	0%	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%	0%
TOTAL	33%	67%	0%	0%	0%	100%

Area 16						
Number of Traps per Vessel						
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL	
1	0%	0%	0%	0%	0%	0%
2	0%	0%	4%	4%	0%	8%
3 to 4	0%	0%	0%	0%	0%	0%
5 to 9	0%	4%	0%	0%	0%	4%
10 to 14	4%	4%	8%	0%	0%	16%
15 to 19	4%	0%	4%	8%	0%	16%
20+	0%	0%	8%	48%	0%	56%
TOTAL	8%	8%	24%	60%	0%	100%

Area 18						
Number of Traps per Vessel						
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL	
1	0%	0%	0%	0%	0%	0%
2	0%	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	8%	0%	8%
5 to 9	0%	0%	0%	8%	0%	8%
10 to 14	0%	0%	0%	0%	0%	0%
15 to 19	0%	0%	0%	46%	0%	46%
20+	0%	8%	0%	31%	0%	38%
TOTAL	0%	8%	0%	92%	0%	100%

Area 19						
Number of Traps per Vessel						
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL	
1	0%	0%	0%	1%	0%	1%
2	1%	0%	0%	0%	0%	1%
3 to 4	0%	0%	0%	0%	0%	0%
5 to 9	3%	1%	1%	0%	0%	5%
10 to 14	4%	7%	13%	4%	0%	28%
15 to 19	2%	5%	10%	4%	0%	22%
20+	1%	7%	20%	15%	0%	42%
TOTAL	12%	20%	43%	25%	0%	100%

NOVEMBER

Number of Respondents

Area 1					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	2	0	0	0	2
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	1	1	0	2
10 to 14	2	0	2	2	6
15 to 19	0	0	0	0	0
20+	0	0	2	0	2
TOTAL	4	1	5	2	12

Area 2					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	4	1	1	0	6
2	1	1	0	0	2
3 to 4	3	0	1	1	5
5 to 9	4	14	10	5	33
10 to 14	4	7	17	16	44
15 to 19	0	5	4	1	10
20+	2	6	7	2	17
TOTAL	18	34	40	25	117

Area 3					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	1	1	2
2	0	0	1	0	1
3 to 4	2	1	0	0	3
5 to 9	7	2	8	3	20
10 to 14	4	7	11	8	30
15 to 19	0	4	11	5	20
20+	2	2	5	4	13
TOTAL	15	16	37	21	89

Area 4					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	2	1	0	0	3
2	1	0	0	0	1
3 to 4	0	1	0	0	1
5 to 9	2	3	4	0	9
10 to 14	3	4	5	7	19
15 to 19	1	3	10	7	21
20+	1	1	13	13	28
TOTAL	10	13	32	27	82

Area 5					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	2	0	0	0	2
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	1	1	3	0	5
10 to 14	7	5	15	6	33
15 to 19	3	1	4	1	9
20+	1	4	6	1	12
TOTAL	14	11	28	8	61

Area 6					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	4	1	1	0	6
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	1	1	2	2	6
10 to 14	2	1	7	5	15
15 to 19	1	0	3	0	4
20+	1	1	0	1	3
TOTAL	9	4	13	8	34

Area 7					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	3	4	4	2	13
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	1	0	0	0	1
10 to 14	2	1	4	2	9
15 to 19	1	0	1	0	2
20+	0	0	2	1	3
TOTAL	7	5	11	5	28

Area 8					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	2	3	0	0	5
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	1	1	2
10 to 14	2	1	7	4	14
15 to 19	0	1	2	1	4
20+	1	1	3	10	15
TOTAL	5	6	13	16	40

Area 9					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	9	7	0	0	16
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	1	0	1
10 to 14	0	0	0	0	0
15 to 19	0	1	0	0	1
20+	0	0	0	1	1
TOTAL	9	8	1	1	19

Southern Cape Inshore					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	1	0	0	1
2	0	3	0	0	3
3 to 4	1	0	0	0	1
5 to 9	1	0	0	0	1
10 to 14	2	1	0	0	3
15 to 19	0	0	0	0	0
20+	0	0	0	0	0
TOTAL	4	5	0	0	9

Area 14					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	4	1	0	1	6
2	0	0	0	0	0
3 to 4	1	0	0	0	1
5 to 9	0	0	0	0	0
10 to 14	0	1	0	0	1
15 to 19	0	0	0	0	0
20+	0	0	0	0	0
TOTAL	5	2	0	1	8

Area 16					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	1	0	1
2	0	0	1	0	1
3 to 4	0	0	0	0	0
5 to 9	0	0	0	0	0
10 to 14	2	1	0	0	3
15 to 19	0	0	2	1	3
20+	0	0	2	12	14
TOTAL	2	1	6	13	22

Area 18					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	0	0
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	1	0	1
10 to 14	0	1	0	1	2
15 to 19	0	0	0	5	5
20+	0	1	0	4	5
TOTAL	0	2	1	10	13

Area 19					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	1	1
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	4	2	0	0	6
10 to 14	1	3	10	8	22
15 to 19	1	5	11	7	24
20+	3	4	14	26	47
TOTAL	9	14	35	42	100

NOVEMBER

Percentage of Respondents

Area 1					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	17%	0%	0%	0%	17%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	8%	8%	0%	17%
10 to 14	17%	0%	17%	17%	50%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	17%	0%	17%
TOTAL	33%	8%	42%	17%	100%

Area 2					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	3%	1%	1%	0%	5%
2	1%	1%	0%	0%	2%
3 to 4	3%	0%	1%	1%	4%
5 to 9	3%	12%	9%	4%	28%
10 to 14	3%	6%	15%	14%	38%
15 to 19	0%	4%	3%	1%	9%
20+	2%	5%	6%	2%	15%
TOTAL	15%	29%	34%	21%	100%

Area 3					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	1%	1%	2%
2	0%	0%	1%	0%	1%
3 to 4	2%	1%	0%	0%	3%
5 to 9	8%	2%	9%	3%	22%
10 to 14	4%	8%	12%	9%	34%
15 to 19	0%	4%	12%	6%	22%
20+	2%	2%	6%	4%	15%
TOTAL	17%	18%	42%	24%	100%

Area 4					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	2%	1%	0%	0%	4%
2	1%	0%	0%	0%	1%
3 to 4	0%	1%	0%	0%	1%
5 to 9	2%	4%	5%	0%	11%
10 to 14	4%	5%	6%	9%	23%
15 to 19	1%	4%	12%	9%	26%
20+	1%	1%	16%	16%	34%
TOTAL	12%	16%	39%	33%	100%

Area 5					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	3%	0%	0%	0%	3%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	2%	2%	5%	0%	8%
10 to 14	11%	8%	25%	10%	54%
15 to 19	5%	2%	7%	2%	15%
20+	2%	7%	10%	2%	20%
TOTAL	23%	18%	46%	13%	100%

Area 6					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	12%	3%	3%	0%	18%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	3%	3%	6%	6%	18%
10 to 14	6%	3%	21%	15%	44%
15 to 19	3%	0%	9%	0%	12%
20+	3%	3%	0%	3%	9%
TOTAL	26%	12%	38%	24%	100%

Area 7					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	11%	14%	14%	7%	46%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	4%	0%	0%	0%	4%
10 to 14	7%	4%	14%	7%	32%
15 to 19	4%	0%	4%	0%	7%
20+	0%	0%	7%	4%	11%
TOTAL	25%	18%	39%	18%	100%

Area 8					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	5%	8%	0%	0%	13%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	3%	3%	5%
10 to 14	5%	3%	18%	10%	35%
15 to 19	0%	3%	5%	3%	10%
20+	3%	3%	8%	25%	38%
TOTAL	13%	15%	33%	40%	100%

Area 9					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	47%	37%	0%	0%	84%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	5%	0%	5%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	5%	0%	0%	5%
20+	0%	0%	0%	5%	5%
TOTAL	47%	42%	5%	5%	100%

Southern Cape Inshore					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	11%	0%	0%	11%
2	0%	33%	0%	0%	33%
3 to 4	11%	0%	0%	0%	11%
5 to 9	11%	0%	0%	0%	11%
10 to 14	22%	11%	0%	0%	33%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	44%	56%	0%	0%	100%

Area 14					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	50%	13%	0%	13%	75%
2	0%	0%	0%	0%	0%
3 to 4	13%	0%	0%	0%	13%
5 to 9	0%	0%	0%	0%	0%
10 to 14	0%	13%	0%	0%	13%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	63%	25%	0%	13%	100%

Area 16					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	5%	0%	5%
2	0%	0%	5%	0%	5%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	0%	0%	0%
10 to 14	9%	5%	0%	0%	14%
15 to 19	0%	0%	9%	5%	14%
20+	0%	0%	9%	55%	64%
TOTAL	9%	5%	27%	59%	100%

Area 18					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	8%	0%	8%
10 to 14	0%	8%	0%	8%	15%
15 to 19	0%	0%	0%	38%	38%
20+	0%	8%	0%	31%	38%
TOTAL	0%	15%	8%	77%	100%

Area 19					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	0%	1%	1%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	4%	2%	0%	0%	6%
10 to 14	1%	3%	10%	8%	22%
15 to 19	1%	5%	11%	7%	24%
20+	3%	4%	14%	26%	47%
TOTAL	9%	14%	35%	42%	100%

DECEMBER

Number of Respondents

Area 1					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	1	0	0	0	1
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	1	0	0	1
10 to 14	1	0	1	1	3
15 to 19	0	0	1	0	1
20+	0	0	1	0	1
TOTAL	2	1	3	1	7

Area 2					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	3	0	1	0	4
2	0	1	0	0	1
3 to 4	1	0	0	1	2
5 to 9	5	11	9	3	28
10 to 14	4	6	14	14	38
15 to 19	1	1	8	0	10
20+	3	6	5	2	16
TOTAL	17	25	37	20	99

Area 3					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	1	1	2
2	0	0	0	0	0
3 to 4	2	0	1	0	3
5 to 9	1	2	7	1	11
10 to 14	5	5	10	7	27
15 to 19	0	4	8	3	15
20+	4	3	8	2	17
TOTAL	12	14	35	14	75

Area 4					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	2	0	0	0	2
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	2	1	2	1	6
10 to 14	4	5	1	4	14
15 to 19	3	3	5	4	15
20+	3	1	13	11	28
TOTAL	14	10	21	20	65

Area 5					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	1	0	0	0	1
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	1	2	0	3
10 to 14	7	5	8	4	24
15 to 19	3	3	3	1	10
20+	2	1	2	0	5
TOTAL	13	10	15	5	43

Area 6					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	2	0	0	0	2
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	1	3	0	4
10 to 14	4	1	6	2	13
15 to 19	1	1	3	0	5
20+	1	1	0	0	2
TOTAL	8	4	12	2	26

Area 7					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	1	1	1	1	4
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	0	0	0
10 to 14	1	1	3	2	7
15 to 19	0	1	0	0	1
20+	0	0	1	1	2
TOTAL	2	3	5	4	14

Area 8					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	2	2	0	0	4
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	2	0	1	3
10 to 14	2	1	6	2	11
15 to 19	1	1	2	1	5
20+	1	0	5	7	13
TOTAL	6	6	13	11	36

Area 9					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	7	0	0	0	7
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	0	0	0
10 to 14	1	0	0	0	1
15 to 19	0	0	0	0	0
20+	0	0	0	1	1
TOTAL	8	0	0	1	9

Southern Cape Inshore					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	0	0
2	0	1	0	0	1
3 to 4	1	0	0	0	1
5 to 9	1	0	0	0	1
10 to 14	1	0	1	0	2
15 to 19	1	0	0	0	1
20+	0	0	0	0	0
TOTAL	4	1	1	0	6

Area 14					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	5	1	0	1	7
2	0	0	0	0	0
3 to 4	1	0	0	0	1
5 to 9	0	0	0	0	0
10 to 14	0	1	1	0	2
15 to 19	0	0	0	0	0
20+	0	0	0	0	0
TOTAL	6	2	1	1	10

Area 16					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	0	0
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	0	0	0
10 to 14	1	0	0	0	1
15 to 19	0	1	0	1	2
20+	0	0	1	11	12
TOTAL	1	1	1	12	15

Area 18					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	0	0
2	0	0	0	0	0
3 to 4	0	0	0	0	0
5 to 9	0	0	1	0	1
10 to 14	0	0	0	0	0
15 to 19	0	2	2	1	5
20+	0	1	1	4	6
TOTAL	0	3	4	5	12

Area 19					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0	0	0	1	1
2	0	0	0	0	0
3 to 4	0	0	1	0	1
5 to 9	2	2	1	1	6
10 to 14	3	2	6	9	20
15 to 19	1	4	8	10	23
20+	2	3	12	28	45
TOTAL	8	11	28	49	96

DECEMBER

Percentage of Respondents

Area 1					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	14%	0%	0%	0%	14%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	14%	0%	0%	14%
10 to 14	14%	0%	14%	14%	43%
15 to 19	0%	0%	14%	0%	14%
20+	0%	0%	14%	0%	14%
TOTAL	29%	14%	43%	14%	100%

Area 2					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	3%	0%	1%	0%	4%
2	0%	1%	0%	0%	1%
3 to 4	1%	0%	0%	1%	2%
5 to 9	5%	11%	9%	3%	28%
10 to 14	4%	6%	14%	14%	38%
15 to 19	1%	1%	8%	0%	10%
20+	3%	6%	5%	2%	16%
TOTAL	17%	25%	37%	20%	100%

Area 3					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	1%	1%	3%
2	0%	0%	0%	0%	0%
3 to 4	3%	0%	1%	0%	4%
5 to 9	1%	3%	9%	1%	15%
10 to 14	7%	7%	13%	9%	36%
15 to 19	0%	5%	11%	4%	20%
20+	5%	4%	11%	3%	23%
TOTAL	16%	19%	47%	19%	100%

Area 4					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	3%	0%	0%	0%	3%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	3%	2%	3%	2%	9%
10 to 14	6%	8%	2%	6%	22%
15 to 19	5%	5%	8%	6%	23%
20+	5%	2%	20%	17%	43%
TOTAL	22%	15%	32%	31%	100%

Area 5					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	2%	0%	0%	0%	2%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	2%	5%	0%	7%
10 to 14	16%	12%	19%	9%	56%
15 to 19	7%	7%	7%	2%	23%
20+	5%	2%	5%	0%	12%
TOTAL	30%	23%	35%	12%	100%

Area 6					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	8%	0%	0%	0%	8%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	4%	12%	0%	15%
10 to 14	15%	4%	23%	8%	50%
15 to 19	4%	4%	12%	0%	19%
20+	4%	4%	0%	0%	8%
TOTAL	31%	15%	46%	8%	100%

Area 7					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	7%	7%	7%	7%	29%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	0%	0%	0%
10 to 14	7%	7%	21%	14%	50%
15 to 19	0%	7%	0%	0%	7%
20+	0%	0%	7%	7%	14%
TOTAL	14%	21%	36%	29%	100%

Area 8					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	6%	6%	0%	0%	11%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	6%	0%	3%	8%
10 to 14	6%	3%	17%	6%	31%
15 to 19	3%	3%	6%	3%	14%
20+	3%	0%	14%	19%	36%
TOTAL	17%	17%	36%	31%	100%

Area 9					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	78%	0%	0%	0%	78%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	0%	0%	0%
10 to 14	11%	0%	0%	0%	11%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	11%	11%
TOTAL	89%	0%	0%	11%	100%

Southern Cape Inshore					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	17%	0%	0%	17%
3 to 4	17%	0%	0%	0%	17%
5 to 9	17%	0%	0%	0%	17%
10 to 14	17%	0%	17%	0%	33%
15 to 19	17%	0%	0%	0%	17%
20+	0%	0%	0%	0%	0%
TOTAL	67%	17%	17%	0%	100%

Area 14					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	50%	10%	0%	10%	70%
2	0%	0%	0%	0%	0%
3 to 4	10%	0%	0%	0%	10%
5 to 9	0%	0%	0%	0%	0%
10 to 14	0%	10%	10%	0%	20%
15 to 19	0%	0%	0%	0%	0%
20+	0%	0%	0%	0%	0%
TOTAL	60%	20%	10%	10%	100%

Area 16					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	0%	0%	0%
10 to 14	7%	0%	0%	0%	7%
15 to 19	0%	7%	0%	7%	13%
20+	0%	0%	7%	73%	80%
TOTAL	7%	7%	7%	80%	100%

Area 18					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	0%	0%	0%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	8%	0%	8%
10 to 14	0%	0%	0%	0%	0%
15 to 19	0%	17%	17%	8%	42%
20+	0%	8%	8%	33%	50%
TOTAL	0%	25%	33%	42%	100%

Area 19					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	0%	0%	0%	1%	1%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	1%	0%	1%
5 to 9	2%	2%	1%	1%	6%
10 to 14	3%	2%	6%	9%	21%
15 to 19	1%	4%	8%	10%	24%
20+	2%	3%	13%	29%	47%
TOTAL	8%	11%	29%	51%	100%

ALL MONTHS
Number of Respondents

Area 1					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	25	1	0	0	26
2	9	0	0	0	9
3 to 4	9	7	3	0	19
5 to 9	4	10	7	6	27
10 to 14	9	11	26	20	66
15 to 19	1	0	2	0	3
20+	0	2	7	0	9
TOTAL	57	31	45	26	159

Area 2					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	106	7	4	0	117
2	13	11	2	0	26
3 to 4	33	14	11	8	66
5 to 9	55	116	96	48	315
10 to 14	51	76	141	198	466
15 to 19	11	26	60	4	101
20+	18	41	56	38	153
TOTAL	287	291	370	296	1244

Area 3					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	39	4	8	10	61
2	4	5	5	0	14
3 to 4	18	7	3	0	28
5 to 9	35	29	49	36	149
10 to 14	45	68	87	49	249
15 to 19	6	36	95	49	186
20+	28	20	51	29	128
TOTAL	175	169	298	173	815

Area 4					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	71	5	0	1	77
2	11	0	6	0	17
3 to 4	0	10	0	0	10
5 to 9	14	18	22	2	56
10 to 14	24	37	63	55	179
15 to 19	10	11	91	86	198
20+	5	15	89	135	244
TOTAL	135	96	271	279	781

Area 5					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	41	2	2	3	48
2	2	3	0	0	5
3 to 4	0	0	0	0	0
5 to 9	18	6	14	0	38
10 to 14	47	82	110	90	329
15 to 19	8	27	35	19	89
20+	14	29	30	24	97
TOTAL	130	149	191	136	606

Area 6					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	67	8	8	0	83
2	1	1	3	0	5
3 to 4	0	0	1	0	1
5 to 9	10	8	18	25	61
10 to 14	12	31	65	41	149
15 to 19	4	12	17	10	43
20+	10	5	3	8	26
TOTAL	104	65	115	84	368

Area 7					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	44	58	34	46	182
2	6	1	5	6	18
3 to 4	0	0	0	0	0
5 to 9	3	4	1	0	8
10 to 14	4	11	31	12	58
15 to 19	2	1	4	0	7
20+	2	2	8	9	21
TOTAL	61	77	83	73	294

Area 8					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	31	15	31	9	86
2	0	0	3	3	6
3 to 4	0	0	0	0	0
5 to 9	6	3	7	7	23
10 to 14	8	17	33	12	70
15 to 19	1	4	12	2	19
20+	12	10	27	42	91
TOTAL	58	49	113	75	295

Area 9					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	73	30	78	18	199
2	0	1	2	3	6
3 to 4	0	0	0	0	0
5 to 9	0	1	6	6	13
10 to 14	4	4	1	2	11
15 to 19	0	4	11	10	25
20+	0	0	3	5	8
TOTAL	77	40	101	44	262

Southern Cape Inshore					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	44	20	15	2	81
2	0	13	11	2	26
3 to 4	6	0	0	0	6
5 to 9	12	2	3	5	22
10 to 14	37	28	19	3	87
15 to 19	6	11	14	0	31
20+	0	0	6	0	6
TOTAL	105	74	68	12	259

Area 14					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	70	26	4	7	107
2	0	0	5	0	5
3 to 4	5	0	0	0	5
5 to 9	0	1	0	0	1
10 to 14	4	14	17	0	35
15 to 19	0	2	3	0	5
20+	0	0	0	0	0
TOTAL	79	43	29	7	158

Area 16					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	2	0	1	0	3
2	0	0	4	1	5
3 to 4	0	0	1	5	6
5 to 9	3	2	2	0	7
10 to 14	14	6	14	1	35
15 to 19	2	4	10	26	42
20+	1	3	23	132	159
TOTAL	22	15	55	165	257

Area 18					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	4	0	0	0	4
2	0	1	1	0	2
3 to 4	0	0	0	1	1
5 to 9	1	1	4	1	7
10 to 14	0	4	1	5	10
15 to 19	1	10	11	16	38
20+	0	5	4	35	44
TOTAL	6	21	21	58	106

Area 19					
Number of Traps per Vessel					
Traps per Trawl	1 to 100	101 to 200	201 to 400	401+	TOTAL
1	1	3	2	7	13
2	2	0	0	0	2
3 to 4	0	0	1	1	2
5 to 9	15	12	9	4	40
10 to 14	40	59	68	44	211
15 to 19	11	25	50	54	140
20+	20	41	94	166	321
TOTAL	89	140	224	276	729

ALL MONTHS
Percentage of Respondents

Area 1					
Traps per Trawl	Number of Traps per Vessel				TOTAL
	1 to 100	101 to 200	201 to 400	401+	
1	16%	1%	0%	0%	16%
2	6%	0%	0%	0%	6%
3 to 4	6%	4%	2%	0%	12%
5 to 9	3%	6%	4%	4%	17%
10 to 14	6%	7%	16%	13%	42%
15 to 19	1%	0%	1%	0%	2%
20+	0%	1%	4%	0%	6%
TOTAL	36%	19%	28%	16%	100%

Area 2					
Traps per Trawl	Number of Traps per Vessel				TOTAL
	1 to 100	101 to 200	201 to 400	401+	
1	9%	1%	0%	0%	9%
2	1%	1%	0%	0%	2%
3 to 4	3%	1%	1%	1%	5%
5 to 9	4%	9%	8%	4%	25%
10 to 14	4%	6%	11%	16%	37%
15 to 19	1%	2%	5%	0%	8%
20+	1%	3%	5%	3%	12%
TOTAL	23%	23%	30%	24%	100%

Area 3					
Traps per Trawl	Number of Traps per Vessel				TOTAL
	1 to 100	101 to 200	201 to 400	401+	
1	5%	0%	1%	1%	7%
2	0%	1%	1%	0%	2%
3 to 4	2%	1%	0%	0%	3%
5 to 9	4%	4%	6%	4%	18%
10 to 14	6%	8%	11%	6%	31%
15 to 19	1%	4%	12%	6%	23%
20+	3%	2%	6%	4%	16%
TOTAL	21%	21%	37%	21%	100%

Area 4					
Traps per Trawl	Number of Traps per Vessel				TOTAL
	1 to 100	101 to 200	201 to 400	401+	
1	9%	1%	0%	0%	10%
2	1%	0%	1%	0%	2%
3 to 4	0%	1%	0%	0%	1%
5 to 9	2%	2%	3%	0%	7%
10 to 14	3%	5%	8%	7%	23%
15 to 19	1%	1%	12%	11%	25%
20+	1%	2%	11%	17%	31%
TOTAL	17%	12%	35%	36%	100%

Area 5					
Traps per Trawl	Number of Traps per Vessel				TOTAL
	1 to 100	101 to 200	201 to 400	401+	
1	7%	0%	0%	0%	8%
2	0%	0%	0%	0%	1%
3 to 4	0%	0%	0%	0%	0%
5 to 9	3%	1%	2%	0%	6%
10 to 14	8%	14%	18%	15%	54%
15 to 19	1%	4%	6%	3%	15%
20+	2%	5%	5%	4%	16%
TOTAL	21%	25%	32%	22%	100%

Area 6					
Traps per Trawl	Number of Traps per Vessel				TOTAL
	1 to 100	101 to 200	201 to 400	401+	
1	18%	2%	2%	0%	23%
2	0%	0%	1%	0%	1%
3 to 4	0%	0%	0%	0%	0%
5 to 9	3%	2%	5%	7%	17%
10 to 14	3%	8%	18%	11%	40%
15 to 19	1%	3%	5%	3%	12%
20+	3%	1%	1%	2%	7%
TOTAL	28%	18%	31%	23%	100%

Area 7					
Traps per Trawl	Number of Traps per Vessel				TOTAL
	1 to 100	101 to 200	201 to 400	401+	
1	15%	20%	12%	16%	62%
2	2%	0%	2%	2%	6%
3 to 4	0%	0%	0%	0%	0%
5 to 9	1%	1%	0%	0%	3%
10 to 14	1%	4%	11%	4%	20%
15 to 19	1%	0%	1%	0%	2%
20+	1%	1%	3%	3%	7%
TOTAL	21%	26%	28%	25%	100%

Area 8					
Traps per Trawl	Number of Traps per Vessel				TOTAL
	1 to 100	101 to 200	201 to 400	401+	
1	11%	5%	11%	3%	29%
2	0%	0%	1%	1%	2%
3 to 4	0%	0%	0%	0%	0%
5 to 9	2%	1%	2%	2%	8%
10 to 14	3%	6%	11%	4%	24%
15 to 19	0%	1%	4%	1%	6%
20+	4%	3%	9%	14%	31%
TOTAL	20%	17%	38%	25%	100%

Area 9					
Traps per Trawl	Number of Traps per Vessel				TOTAL
	1 to 100	101 to 200	201 to 400	401+	
1	28%	11%	30%	7%	76%
2	0%	0%	1%	1%	2%
3 to 4	0%	0%	0%	0%	0%
5 to 9	0%	0%	2%	2%	5%
10 to 14	2%	2%	0%	1%	4%
15 to 19	0%	2%	4%	4%	10%
20+	0%	0%	1%	2%	3%
TOTAL	29%	15%	39%	17%	100%

Southern Cape Inshore					
Traps per Trawl	Number of Traps per Vessel				TOTAL
	1 to 100	101 to 200	201 to 400	401+	
1	17%	8%	6%	1%	31%
2	0%	5%	4%	1%	10%
3 to 4	2%	0%	0%	0%	2%
5 to 9	5%	1%	1%	2%	8%
10 to 14	14%	11%	7%	1%	34%
15 to 19	2%	4%	5%	0%	12%
20+	0%	0%	2%	0%	2%
TOTAL	41%	29%	26%	5%	100%

Area 14					
Traps per Trawl	Number of Traps per Vessel				TOTAL
	1 to 100	101 to 200	201 to 400	401+	
1	44%	16%	3%	4%	68%
2	0%	0%	3%	0%	3%
3 to 4	3%	0%	0%	0%	3%
5 to 9	0%	1%	0%	0%	1%
10 to 14	3%	9%	11%	0%	22%
15 to 19	0%	1%	2%	0%	3%
20+	0%	0%	0%	0%	0%
TOTAL	50%	27%	18%	4%	100%

Area 16					
Traps per Trawl	Number of Traps per Vessel				TOTAL
	1 to 100	101 to 200	201 to 400	401+	
1	1%	0%	0%	0%	1%
2	0%	0%	2%	0%	2%
3 to 4	0%	0%	0%	2%	2%
5 to 9	1%	1%	1%	0%	3%
10 to 14	5%	2%	5%	0%	14%
15 to 19	1%	2%	4%	10%	16%
20+	0%	1%	9%	51%	62%
TOTAL	9%	6%	21%	64%	100%

Area 18					
Traps per Trawl	Number of Traps per Vessel				TOTAL
	1 to 100	101 to 200	201 to 400	401+	
1	4%	0%	0%	0%	4%
2	0%	1%	1%	0%	2%
3 to 4	0%	0%	0%	1%	1%
5 to 9	1%	1%	4%	1%	7%
10 to 14	0%	4%	1%	5%	9%
15 to 19	1%	9%	10%	15%	36%
20+	0%	5%	4%	33%	42%
TOTAL	6%	20%	20%	55%	100%

Area 19					
Traps per Trawl	Number of Traps per Vessel				TOTAL
	1 to 100	101 to 200	201 to 400	401+	
1	0%	0%	0%	1%	2%
2	0%	0%	0%	0%	0%
3 to 4	0%	0%	0%	0%	0%
5 to 9	2%	2%	1%	1%	5%
10 to 14	5%	8%	9%	6%	29%
15 to 19	2%	3%	7%	7%	19%
20+	3%	6%	13%	23%	44%
TOTAL	12%	19%	31%	38%	100%

RHODE ISLAND

The discussion below explains the model’s characterization of the activity and gear associated with state-permitted vessels fishing exclusively in Rhode Island state waters.

Number of Active Vessels

The Rhode Island Department of Environmental Management (DEM) analyzed state logbook data from 2008 through 2010 to calculate the number of state-permitted lobster, gillnet, and other trap pot (OTP) vessels fishing in NMFS statistical areas 539 (Narragansett Bay and RI coastal waters) and 611 (RI coastal waters). Figure RI-1 shows the location of these areas, while Table RI-1 summarizes the activity data for 2010.

Note that no gillnet vessels were active in area 611 in 2010.

The OTP fishery includes vessels harvesting black sea bass, scup, eel, and conch. A single OTP fisherman may harvest multiple species; therefore, the logbook data do not allow disaggregation of these segments of the OTP fishery.

Gear Configurations For Model Vessels

Lobster

- **Total Traps Fished:** The characterization of the Rhode Island lobster fishery includes two model vessels, one for each of the NMFS statistical areas. The specification of each model vessel includes the total number of traps that the vessel fishes. RI DEM analyzed 2010 state logbook data to calculate the average number of traps fished by state-permitted vessels in each month and area; the model incorporates these data. The figures are shown in Table RI-2.
- **Traps per Trawl:** RI DEM also provided data gathered through its sea sampling program. These data include the average number of traps per trawl fished by the monitored vessel. These data were collected in 2009 and 2010, and include 77 observations for 19 vessels. The average traps fished per trawl is 17, with limited variation between areas or months. Therefore, we assume 17 traps per trawl for all vessels fishing in Rhode Island state waters.
- **Groundline Between Traps:** Based on data from its sea sampling program, RI DEM estimates that lobstermen typically use about 103 feet of groundline between traps.
- **Endlines per Trawl:** Observations from Rhode Island’s sea sampling program indicate that lobstermen use two endlines per trawl.
- **Anchor Lines:** Consistent with findings for surrounding states, we assume that anchor lines are not used.

Gillnet

- **Total Strings Fished:** The characterization of the Rhode Island gillnet fishery is based on a single model vessel that represents gillnet operations in area 539. The specifications for this vessel include the number of gillnet strings fished. RI DEM guidance suggests that vessels in state waters fish single strings, an assumption consistent with neighboring Connecticut. As shown in Table RI-3, the number of nets fished per string varies across months, ranging from three to eight.
- **Panel Dimensions:** The model assumes a net size of 300 feet by 9.7 feet.
- **Other:** The model assumes two surface lines and two 10-foot anchor lines for each gillnet string.

OTP

- **Total Traps Fished:** The characterization of the Rhode Island OTP fishery includes two model vessels, one for each of the NMFS statistical areas. The specification of each model vessel includes the total number of traps that the vessel fishes. As with lobster, RI DEM analyzed 2010 state logbook data to calculate the average number of traps fished by state-permitted vessels in each month and area; the model incorporates these data. The figures are shown in Table RI-4.
- **Traps per Trawl:** No Rhode Island-specific data are currently available to characterize the number of pots fished per trawl in the OTP fishery. Based on estimates for the conch, black sea bass, and scup fisheries in neighboring Massachusetts, we assume a rough average of four pots per trawl for the Rhode Island OTP fishery.
- **Endlines per Trawl:** As with lobster, the model assumes two endlines per trawl.

FIGURE RI-1. NMFS NORTHEAST STATISTICAL AREAS

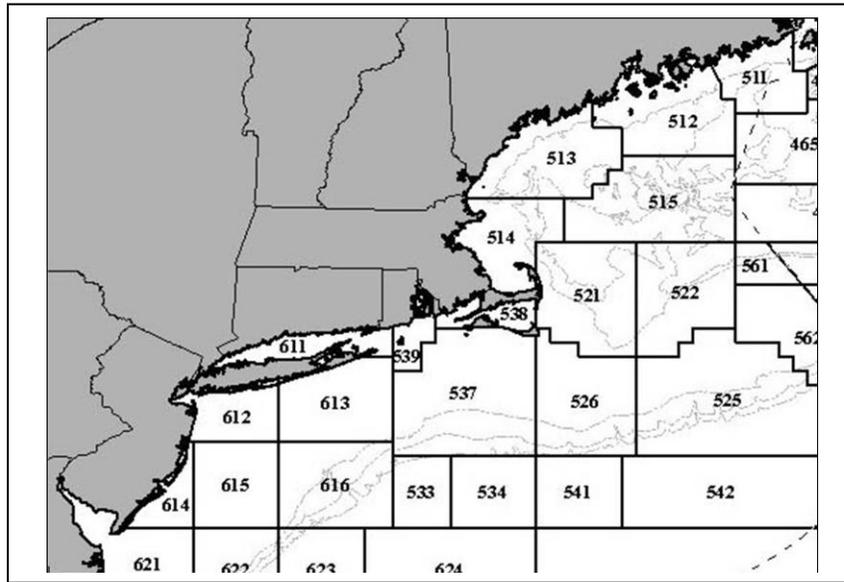


TABLE RI-1. VESSELS ACTIVE IN RHODE ISLAND STATE WATERS, BY MONTH (2010)

FISHERY	AREA	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Lobster	Area 539	36	27	23	41	81	125	135	130	76	58	50	41
	Area 611	1	1	2	3	7	9	11	11	5	2	1	2
	Total	37	28	25	44	88	134	146	141	81	60	51	43
Gillnet	Area 539	1	0	0	19	32	34	25	20	11	9	4	1
OTP	Area 539	0	0	2	7	38	65	96	87	53	36	25	2
	Area 611	0	0	0	0	0	1	5	3	3	2	1	0
	Total	0	0	2	7	38	66	101	90	56	38	26	2

TABLE RI-2. AVERAGE NUMBER OF TRAPS FISHED PER LOBSTER VESSEL, BY MONTH (2010)

	AREA 539	AREA 611
January	421	50
February	419	48
March	442	34
April	349	32
May	315	40
June	290	37
July	289	81
August	287	89
September	353	11
October	450	20
November	465	20
December	467	108

TABLE RI-3. NUMBER OF NETS AND STRINGS FISHED PER GILLNET VESSEL, BY MONTH (2010)

	NETS	STRINGS
January	4	1.0
February	N.A.	N.A.
March	N.A.	N.A.
April	5	1.0
May	6	1.0
June	5	1.0
July	5	1.0
August	4	1.0
September	3	1.0
October	5	1.0
November	8	1.0
December	4	1.0

TABLE RI-4. AVERAGE NUMBER OF POTS FISHED PER OTP VESSEL, BY MONTH (2010)

	AREA 539	AREA 611
January	N.A.	N.A.
February	N.A.	N.A.
March	4	N.A.
April	22	N.A.
May	37	N.A.
June	29	46
July	39	22
August	19	16
September	22	16
October	21	18
November	21	40
December	30	N.A.

CONNECTICUT

The discussion below explains the model’s characterization of the activity and gear associated with lobster, gillnet, and other trap/pot vessels fishing exclusively in Connecticut state waters.

Number of Active Vessels

Lobster

- The Connecticut Department of Environmental Protection (CT DEP) analyzed catch report data to identify the number of lobster vessels active in Connecticut waters. The data cover the years 2000 through 2010; the information presented here is limited to 2009 and 2010. As shown in Table CT-1, the data are organized by year, month, and geographic area. The geographic areas are defined in Figure CT-1.28 Note that when only one or two vessels report activity, the data are withheld due to confidentiality restrictions. The model assumes 1.5 active vessels in these instances.

Gillnet

- Table CT-2 summarizes the number of active gillnet vessels fishing in Connecticut state waters in 2009 and 2010 by year, month, and geographic area. These figures are based on CT DEP analysis of catch report data. As with lobster, when only one or two vessels report activity, the data are withheld. The model assumes 1.5 active vessels in these instances.
- The Atlantic Large Whale Take Reduction Program regulations cover only anchored gillnets; likewise, the vertical line model focuses on anchored gillnet vessels. The CT catch report data, however, do not differentiate between staked and anchored gillnets, both of which are used in Long Island Sound. As a result, the estimates of anchored gillnet vessels operating in CT state waters is likely overstated, although the degree of error is unknown.

Other Trap Pot

- A small fish pot fishery operates in Long Island Sound, focusing on scup, tautog, and black sea bass. Table CT-3 summarizes activity in this fishery in 2009 and 2010 by year, month, and area, using catch report data provided by CT DEP. As with lobster and gillnets, when only one or two vessels report activity, the data are withheld. The model assumes 1.5 active vessels in these instances.

²⁸ Figure CT-1 uses LIS area names consistent with those used in New York State - Western LIS, Eastern LIS, and Eastern End. CT DEP typically uses the terms Western LIS, Central Basin, and Eastern Basin, respectively, for these same areas.

Gear Configurations for Model Vessels

Lobster

- **Total Traps Fished:** The specification of each model vessel includes the total number of traps that the vessel fishes. CT DEP analyzed catch report data to calculate the overall total number of lobster pots fished by month and geographic area. To estimate the typical number of traps per model vessel, we divide total traps by the number of active vessels in each month/area. For 2009 and 2010, the model incorporates the figures shown in Table CT-4.
- **Traps per Trawl:** Each model vessel incorporates an estimate of the number of traps per trawl. CT DEP reports that lobster vessels in state waters may fish singles or trawls of up to 12 traps. Consistent with CT DEP recommendations, the model vessels for all three state water areas assume the use of six-trap trawls.
- **Endlines per Trawl:** Based on input from CT DEP, we assume two endlines per trawl.
- **Groundline Between Traps:** Consistent with CT DEP recommendations, we assume 120 feet of groundline between traps.
- **Anchor Lines:** Consistent with CT DEP recommendations, we assume that anchor lines are not used.

Gillnet

- **Strings Fished per Vessel:** Based on input from CT DEP, the model assumes that gillnet vessels fish one net (and therefore one string). This assumption is consistent with available data on total nets fished in each area and month.
- **Other:** Based on input from CT DEP, the model assumes that gillnet vessels fish 300-foot-wide panels. The model also assumes two endlines per string.

Other Trap/Pot

- **Pots Fished per Vessel:** CT DEP analyzed 2010 catch report data to calculate the total number of fish pots fished by month and geographic area. To estimate the typical number of traps per model vessel, we divide this total by the number of active vessels in each month/area. The data suggest that fish pot vessels fish an average of 17 pots per vessel.
- **Other:** Consistent with CT DEP guidance, we assume that all pots are fished as singles, with one endline.

TABLE CT-1. NUMBER OF LOBSTER VESSELS ACTIVE IN CONNECTICUT STATE WATERS

	2009			2010		
	EASTERN END LIS	EASTERN LIS	WESTERN LIS	EASTERN END LIS	EASTERN LIS	WESTERN LIS
January	20	4	11	18	11	10
February	18	3	4	13	8	1.5
March	16	6	8	11	10	4
April	17	17	11	14	19	9
May	29	25	13	27	26	7
June	47	25	14	51	28	14
July	51	30	22	54	32	19
August	48	24	22	47	27	19
September	27	15	9	21	12	13
October	14	6	6	15	6	6
November	20	13	16	21	8	15
December	25	16	14	22	10	8

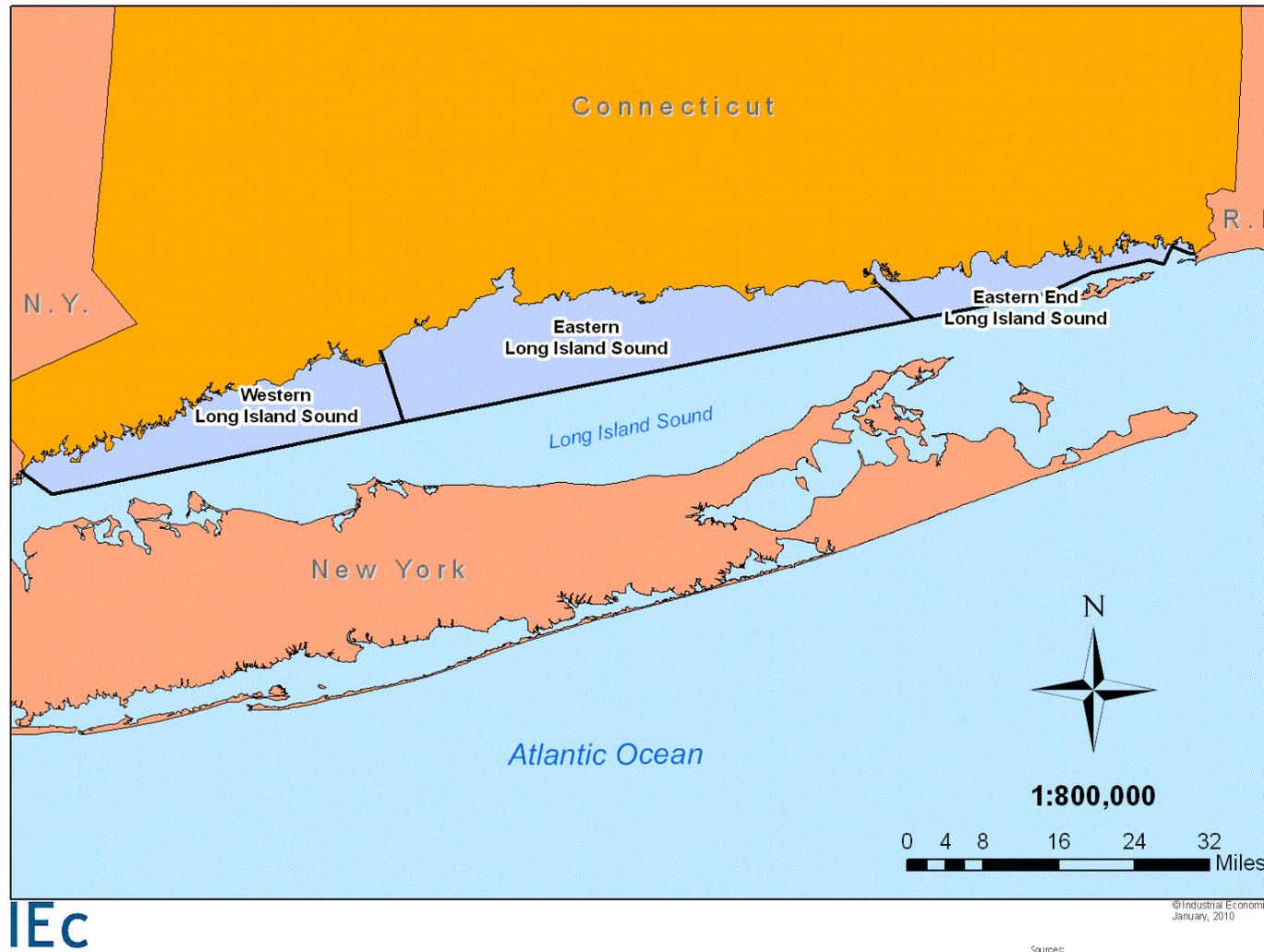
TABLE CT-2. NUMBER OF GILLNET VESSELS ACTIVE IN CONNECTICUT STATE WATERS

	2009			2010		
	EASTERN END LIS	EASTERN LIS	WESTERN LIS	EASTERN END LIS	EASTERN LIS	WESTERN LIS
January						
February						
March						
April		1.5			1.5	
May	6	4		1.5	1.5	
June	3	1.5		4	1.5	
July	1.5	1.5		4		
August				3		
September				1.5		
October				1.5	1.5	
November						
December						

TABLE CT-3. NUMBER OF FISH POT VESSELS ACTIVE IN CONNECTICUT STATE WATERS

	2009			2010		
	EASTERN END LIS	EASTERN LIS	WESTERN LIS	EASTERN END LIS	EASTERN LIS	WESTERN LIS
January			1.5			
February						
March						
April			1.5		1.5	
May					1.5	
June	6	3		5	4	
July	15	3		21	4	
August	20	4		20	3	1.5
September	24	1.5		23	3	
October	6	5		15	3	1.5
November	4	3		4		
December	1.5	1.5				

FIGURE CT-1. FISHING AREAS IN CONNECTICUT STATE WATERS



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Sources:
1. Connecticut Department of Environmental Protection
2. Environmental Systems Research Institute (ESRI)

TABLE CT-4. NUMBER OF TRAPS FISHED PER LOBSTER VESSEL IN CONNECTICUT STATE WATERS

	2009			2010		
	EASTERN END LIS	EASTERN LIS	WESTERN LIS	EASTERN END LIS	EASTERN LIS	WESTERN LIS
January	338	682	499	299	227	648
February	323	415	677	271	228	1224
March	285	167	411	273	158	929
April	160	220	1082	233	195	696
May	141	192	1024	146	199	562
June	204	383	799	234	382	668
July	270	408	756	241	361	654
August	243	326	454	200	277	578
September	237	100	406	158	95	303
October	158	116	496	95	60	189
November	305	234	760	252	118	498
December	359	240	871	280	168	491

NEW YORK

The discussion below explains the model’s characterization of the activity and gear associated with lobster and gillnet vessels fishing exclusively in New York state waters.²⁹

Number of Active Vessels

Lobster

- The New York Department of Environmental Conservation (NY DEC) requires that lobster fishermen holding state licenses submit information to DEC’s State Recall Survey database on an annual basis. In accordance with state reporting requirements, fishermen identify the general area(s) in which they fished: Western Long Island Sound (LIS), Eastern LIS, the Eastern End of Long Island, and/or the South Shore of Long Island. Figure NY-1 shows the location of these areas.³⁰ To estimate the number of vessels active in each of the four areas, we begin with the total number of lobster permits (resident and non-resident) that were actively fished in a given year. We distribute the vessels associated with these permits to the four areas in proportion to the number of gear reports received for each area. Table NY-1 shows the estimated number of vessels active in each of the four areas during the last three years.
- The model allows seasonal variation in the number of vessels that are active (i.e., that have gear in the water in a given month). The Recall Survey data do not allow direct monthly tracking of active lobster vessels in state waters. Therefore, we rely on a limited set of VTR data analyzed by NY DEC, which reflect federally-permitted vessels active in state waters; DEC biologists suggest that the broader set of vessels active in state waters are likely to follow a similar seasonal pattern. Table NY-2 indicates the number of active vessels in the VTR dataset and the associated seasonal scaling factor. Multiplying the total number of vessels operating in each area by this scalar provides a monthly estimate of active vessels in each segment of state waters.

Gillnet

- NY DEC also provided a limited set of available data on gillnet vessels fishing in New York state waters. An analysis performed on 2007 state vessel trip report data identified the number of trips taken by gillnet vessels holding only a state permit. The analysis compiled the trips for each of the four areas specified for lobster vessels. The analysis also calculated the number of active vessels in

²⁹ Information on the activity of other trap/pot vessels licensed to fish exclusively in New York waters is not currently available. NY DEC indicates that while other species (e.g., tautog, black sea bass, scup) are harvested with traps, these species are essentially by-catch harvested by lobster vessels.

³⁰ Western Long Island Sound encompasses areas 141 and 142; Eastern Long Island Sound encompasses areas 143 and 144; the Eastern End encompasses areas 145, 146, 147, 148, and 149; and the South Shore encompasses areas 158, 162, 164, 166, and 167.

each month. We distribute the active vessels to the four areas in proportion to the number of trips in each area. The resulting estimate of active gillnet vessels in each area and month is provided in Table NY-3; the model applies the same estimate of vessel activity in all years analyzed.

Gear Configurations For Model Vessels

Lobster

- **Total Traps Fished:** The specification of each model vessel includes the total number of traps that the vessel fishes. We use data from the Recall Survey to estimate the average traps fished per vessel in each of the four state-designated areas. The results are shown in Table NY-1. We assume that all traps are fished year-round, making no seasonal adjustment to the number of traps fished.
- **Traps per Trawl:** Each model vessel incorporates an estimate of the number of traps per trawl. NY DEC reports that lobster vessels in state waters typically fish trawls of five to ten traps. Therefore, the model vessels for all four state water areas assume 7.5 traps per trawl.
- **Endlines per Trawl:** Based on input from NY DEC, we assume two endlines per trawl.
- **Groundline Between Traps:** NY DEC reports that groundline between traps is roughly consistent with water depth (to facilitate trap hauling). The average depth of Long Island Sound is approximately 65 feet; we apply this assumption for groundline between traps.³¹
- **Anchor Lines:** We assume that anchor lines are not used.

Gillnet

- Systematic data on gear configurations used by gillnet vessels in New York state waters are not available. The model assumes that New York gillnetters use configurations similar to vessels fishing in the Connecticut portions of Long Island Sound. Specifically, gillnet vessels are assumed to fish a single string with two endlines. Available VTR data suggest that most vessels in New York state waters fish four or fewer net panels, supporting the assumption of a single string.

³¹ “Geological Setting of Long Island Sound,” Long Island Sound Resource Center, University of Connecticut, accessed online at http://www.lisrc.uconn.edu/lis_uwtour/geology.asp.

TABLE NY-1. ASSUMPTIONS FOR MODEL VESSELS IN NEW YORK STATE WATERS: LOBSTER FISHERY

YEAR	VESSEL DISTRIBUTION (MAXIMUM NUMBER OF ACTIVE VESSELS IN YEAR)				AVERAGE TRAPS FISHED PER VESSEL				TRAPS PER TRAWL	GROUNDLINE BETWEEN TRAPS (FT)
	WESTERN LIS	EASTERN LIS	EASTERN END	SOUTH SHORE	WESTERN LIS	EASTERN LIS	EASTERN END	SOUTH SHORE		
	2008	32	33	80	29	443	825	278		
2009	32	33	41	51	469	641	243	249	7.5	65
2010	21	18	62	33	618	552	249	309	7.5	65

FIGURE NY-1. REGULATORY AREAS FOR NEW YORK STATE WATERS AND SURROUNDING FEDERAL WATERS

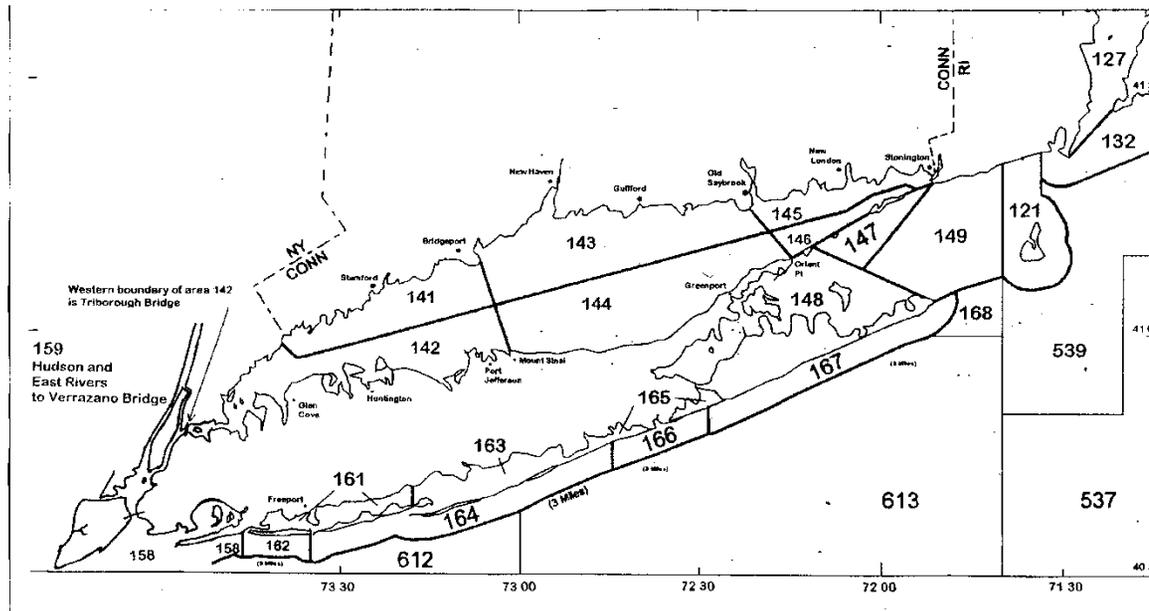


TABLE NY-2. LOBSTER VESSELS ACTIVE IN NEW YORK STATE WATERS

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
2009	Active Vessels Based on VTR Data	5	5	7	14	19	21	27	21	14	10	10	12	
	Scaling Factor	0.19	0.19	0.26	0.52	0.70	0.78	1.00	0.78	0.52	0.37	0.37	0.44	
	Estimated Number of Vessels Active in State Waters	Western LIS	6	6	8	16	22	25	32	25	16	12	12	14
		Eastern LIS	6	6	9	17	23	26	33	26	17	12	12	15
		Eastern End	8	8	11	21	29	32	41	32	21	15	15	18
		South Shore	10	10	13	27	36	40	51	40	27	19	19	23
2010	Active Vessels Based on VTR Data	11	4	11	18	22	18	24	22	13	7	7	5	
	Scaling Factor	0.46	0.17	0.46	0.75	0.92	0.75	1.00	0.92	0.54	0.29	0.29	0.21	
	Estimated Number of Vessels Active in State Waters	Western LIS	10	4	10	16	19	16	21	19	11	6	6	4
		Eastern LIS	8	3	8	13	16	13	18	16	10	5	5	4
		Eastern End	29	10	29	47	57	47	62	57	34	18	18	13
		South Shore	15	5	15	25	30	25	33	30	18	10	10	7

TABLE NY-3. NUMBER OF GILLNET VESSELS ACTIVE IN NY STATE WATERS (2007)

	WESTERN LIS	EASTERN LIS	EASTERN END	SOUTH SHORE
January	-	0.2	0.5	3.3
February	-	-	1.0	-
March	-	-	1.3	0.7
April	-	-	4.8	7.2
May	-	-	9.8	9.2
June	-	-	6.0	11.0
July	-	-	5.7	15.3
August	-	-	2.3	9.7
September	0.1	-	3.4	19.5
October	0.6	-	7.5	14.0
November	0.4	-	11.3	19.3
December	-	-	0.5	13.5

NEW JERSEY

The discussion below explains the model’s characterization of the activity and gear associated with New Jersey-permitted lobster vessels.³²

Number of Active Vessels

- Fishery managers with the New Jersey Department of Environmental Protection (NJDEP) indicate that approximately 30 vessels with New Jersey permits actively harvested lobster in 2010. Table NJ-1 reports the number of active vessels by month.
- NJDEP indicates that these vessels fish primarily in Federal waters, with a few vessels operating in both Federal and state waters. Officials indicate that while roughly three vessels may fish exclusively in state waters, no data on activity, landings, or gear use by these vessels are collected.³³ The vertical line model characterizes activity in federal waters using data from NMFS’ Vessel Trip Report (VTR) database. Therefore, the NJDEP data on active vessels will be used only for comparative purposes.
- While an active gillnet fishery exists in New Jersey, fishery experts believe that the majority of the activity occurs in Federal waters.³⁴

Gear Configurations For Model Vessels

- **Total Traps Fished:** The specification of each model vessel includes the total number of traps that the vessel fishes. Officials with NJDEP estimate that vessels each fish an average of approximately 875 traps. We assume that this average is constant year-round, making no seasonal adjustment to the number of traps that active vessels fish.
- **Traps per Trawl:** Officials with NJDEP suggest that lobster vessels fish approximately 20 traps per trawl, on average. This figure is consistent with a NJDEP report examining fish/lobster potters’ use of constructed ocean reef sites.³⁵ This gear survey reported that the number of traps per trawl used in the study areas ranged from four to 70, with an average of 22 traps per trawl.
- **Groundline Between Traps:** Based on information in the NJDEP reef study, we estimate approximately 65 feet of groundline between traps. This figure is based on the average length of a trawl (1,525 feet) and the typical number of traps per trawl in the study (22). The estimate is roughly consistent with the groundline between traps observed in other states.

³² Information on the activity of gillnet or other trap/pot vessels licensed to fish exclusively in New Jersey waters is not currently available.

³³ Personal communication with Peter Clark, NJDEP, NJ ACCSP State Coordinator, September 30, 2011.

³⁴ Personal communication with Greg DiDomenico, Garden State Seafood Association, February 12, 2010.

³⁵ Carlson, Jeff, et al., *Pot Fishing Effort on Eight New Jersey Ocean Reef Sites*, October 2005.

- **Endlines per Trawl:** The NJDEP reef study found that 97 percent of all surveyed lobstermen used a high flyer at each end of their trawls; therefore, we assume two endlines per trawl.
- **Anchor Lines:** Consistent with findings for neighboring states, we assume that anchor lines are not used.

TABLE NJ-1. NUMBER OF ACTIVE NEW JERSEY-PERMITTED LOBSTER VESSELS (2010)

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
17	17	15	19	23	23	23	23	25	22	21	16

TABLE NJ-2. LOBSTER GEAR CONFIGURATION ASSUMPTIONS FOR NEW JERSEY LOBSTER VESSELS

AVERAGE TRAPS FISHED PER VESSEL	TRAPS PER TRAWL	GROUNDLINE BETWEEN TRAPS (FT)	ENDLINES PER TRAWL
875	20	65	2

DELAWARE

The discussion below explains the model’s characterization of the activity and gear associated with vessels fishing in Delaware state waters.

Number of Active Vessels

Blue Crab and Other Trap/Pot

- **Fisheries:** Data provided by the Delaware Division of Fish and Wildlife (DFW) identify several trap/pot fisheries, including the blue crab fishery, the eel pot fishery, the fish pot (black sea bass) fishery, and the conch fishery. While lobster landings occur, they are largely by-catch from the black sea bass fishery.
- **Number of Active Participants:** DFW provided detailed logbook data on activity in each of the trap/pot fisheries, covering the period from 2009 through 2010. Summarized in Table DE-1, these data reflect the number of active participants in each month. In the case of the blue crab fishery, multiple licenses can be fished from one vessel; therefore, the figures likely overstate the total number of active blue crab vessels, although the degree of overestimation is unknown. For other fisheries, the number of participants is equivalent to the number of active vessels. The data are subdivided by area. These areas are labeled in the map presented in Figure DE-1. Note that all activity in Delaware Bay occurs on the Delaware side of the shipping channel. The model assumes that the activity reported for each of the four areas is evenly distributed throughout that area.

Gillnet

- **Number of Active Vessels:** DFW provided similar logbook data for gillnet vessels (see Table DE-1). As with trap/pot fisheries, all activity in Delaware Bay occurs on the Delaware side of the shipping channel. Again, the model assumes that the activity reported for each of the areas is evenly distributed throughout that area.

Gear Configurations For Model Vessels

Blue Crab and Other Trap/Pot

- **Total Traps/Pots Fished:** The specification of each model vessel includes the total number of traps/pots that the vessel typically fishes. DFW provided an analysis of logbook data estimating the average number of traps/pots fished, by fishery, month, and area. These data showed limited seasonal variation in the number of traps/pots; this is particularly true for the blue crab fishery, which accounts for the majority of fishing activity. Table DE-2 shows the model vessel assumptions for the average number of traps/pots, with separate

estimates for inshore and offshore black sea bass vessels. These figures are based on gear configurations reported for 2010.

- **Traps per Trawl:** Each model vessel incorporates an estimate of the number of traps per trawl. Logbook data suggest that most trap/pot vessels fish singles. The exception is the offshore fish pot (black sea bass) fishery, for which DFW does not collect data on pots per trawl. The model assumes that these vessels fish five pots per trawl, an estimate based on a study of black sea bass vessels operating in the northern portion of North Carolina.³⁶
- **Endlines per Trawl:** The model assumes that traps/pots fished as singles have one endline. For the offshore black sea bass fishery, we assume two endlines per trawl.
- **Groundline Between Traps:** The model vessel configuration for offshore black sea bass assumes 15 feet of groundline between pots. This figure is based on northern North Carolina black sea bass vessels characterized in the 2009 *Marine Policy* article cited above.
- **Anchor Lines:** We assume that anchor lines are not used.

Gillnet

- **Nets per Vessel:** Using state logbook data, DFW provided an analysis of the average net feet fished by gillnet vessels, organized by month and area. Using DFW's estimate of a net's typical length (150 feet), we calculate the approximate number of nets fished per vessel, based on 2010 data. This parameter shows limited variation between areas or seasons; therefore, we estimated a single average number of nets per vessel (seven).
- **Total Strings Fished:** DFW does not collect data on the typical number of nets fished per string. The model assumes that gillnets are fished singly, as is the case in neighboring Virginia. Therefore, the number of strings fished is equal to the number of nets per vessel.
- **Panel Dimensions:** As noted, DFW staff estimate that net panels are roughly 150 feet long; other information on panel dimensions is unavailable.
- **Other:** The model assumes two surface lines and two 10-foot anchor lines for each gillnet string.

³⁶ Levesque, Juan C., "Characterization of the southeastern US black sea bass (*Centropristis striata*) pot commercial fishery and implications for western North Atlantic right whale (*Eubalaena glacialis*) management and policy," *Marine Policy*, 33 (2009) 40-48.

TABLE DE-1. NUMBER OF ACTIVE PARTICIPANTS IN DELAWARE FISHERIES

YEAR	FISHERY	AREA	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
2009	Blue Crab	Delaware Bay				43	93	83	103	116	108	54	3		
	Eel Pot	Delaware Bay			1	5	4	2	2	3	5	5	1		
		Inland Bays									2	2	2		
	Fish Pot*	Delaware Bay				1	3	3	1	2	2	2	2	1	
	Conch	Atlantic Ocean, Inshore (<3 miles)											2	2	1
		Delaware Bay				1	2	8	6	2	2	4	9	11	4
	Gillnet	Delaware Bay		4	5	8	37	2						5	15
		Inland Bays		1		2	2								
2010	Blue Crab	Delaware Bay				45	77	73	84	98	90	37	6		
	Eel Pot	Delaware Bay				5	4	4	1	1	4	6	4		
		Inland Bays											2	3	
	Fish Pot*	Atlantic Ocean, Inshore (<3 miles)												1	
		Delaware Bay						1	1			1	3	1	
	Conch	Atlantic Ocean, Inshore (<3 miles)						1	1			1	2	1	
		Delaware Bay		1	1	1	1	3	4	2	2	3	11	9	1
	Gillnet	Delaware Bay		1	2	6	37	1						10	18
Inland Bays					4	2								1	
* DFW provided additional data on fish pot activity in ocean waters beyond three miles; however, the model uses Vessel Trip Report (VTR) data to characterize activity in these waters.															

FIGURE DE-1. AREAS FOR DELAWARE FISHERIES

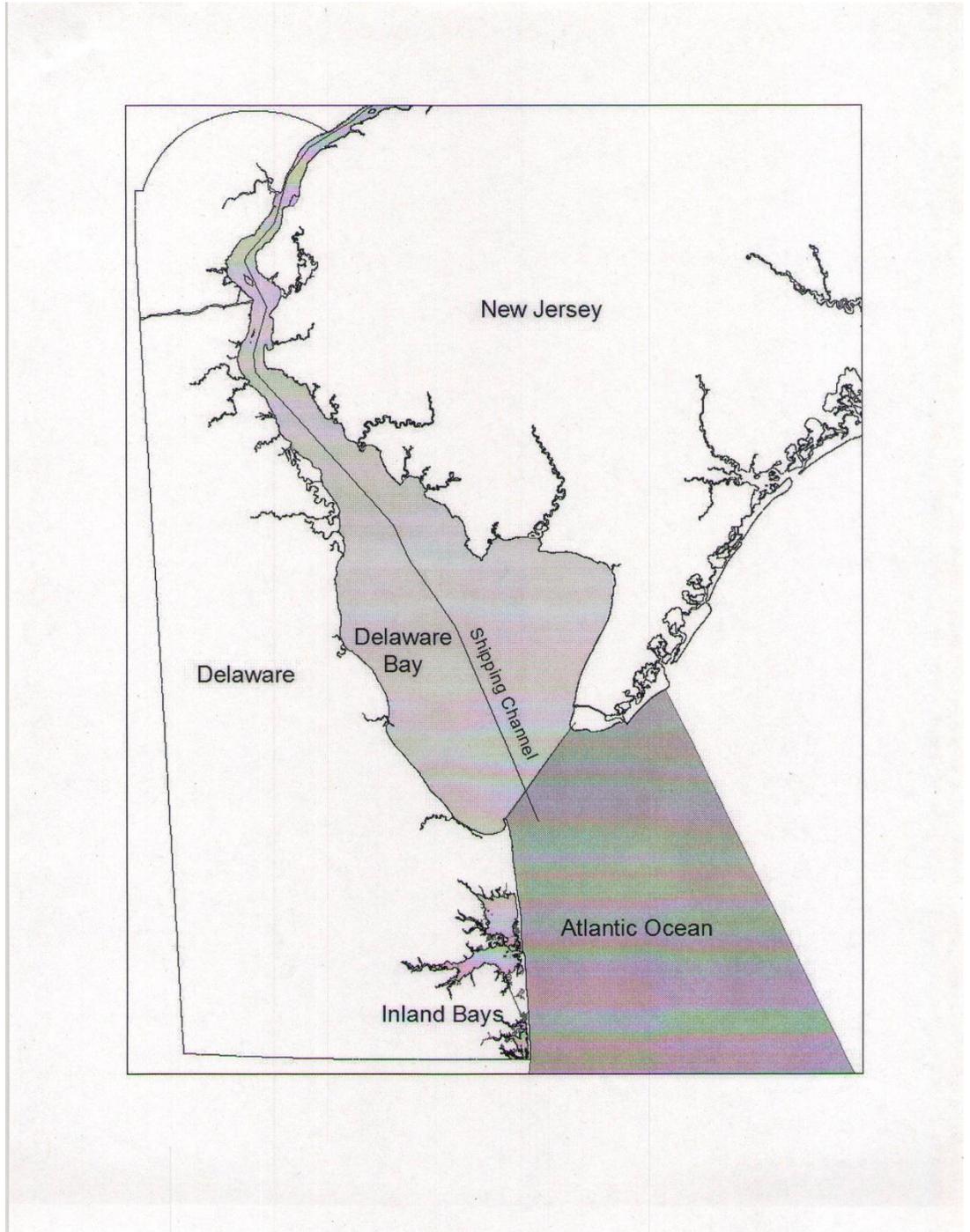


TABLE DE-2. GEAR CONFIGURATION ASSUMPTIONS FOR TRAP/POT FISHERIES IN DELAWARE STATE WATERS

FISHERY	AVERAGE POTS/TRAPS FISHED PER VESSEL	POTS PER TRAWL	NUMBER OF ENDLINES	GROUNDLINE BETWEEN POTS (FEET)
Blue Crab	132	Singles	1	N.A.
Eel Pot	100	Singles	1	N.A.
Fish Pot, Offshore	416	5	2	15
Fish Pot, Inshore	149	Singles	1	N.A.
Conch Pot/Trap	200	Singles	1	N.A.

TABLE DE-3. GILLNET GEAR CONFIGURATION ASSUMPTIONS FOR DELAWARE STATE WATERS

AVERAGE NUMBER OF STRINGS FISHED	NET PANELS PER STRING	NET PANEL LENGTH (FEET)	NET PANEL HEIGHT (FEET)	ENDLINES PER STRING	ANCHOR LINES
7	1	150	N.A.	2	2 (10 feet each)

MARYLAND

The discussion below explains the model’s characterization of the activity and gear associated with vessels fishing in Maryland state waters.

Number of Active Vessels*Blue Crab and Other Trap/Pot*

- **Fisheries:** As part of its annual determination of fisheries monitored for sea turtle interaction, the Maryland Department of Natural Resources (MDNR), Maryland Fisheries Service (MFS) identifies several trap/pot fisheries operating in state waters. Significant fisheries include the blue crab fishery, the eel pot fishery, and the fish pot (catfish, black sea bass, tautog, scup) fishery. Additional trap/pot fisheries exist, but are not included in the vertical line model. The conch fishery includes fewer than 10 active vessels while the trap-based snapping turtle fishery is small and exclusively prosecuted in river tributaries feeding Chesapeake Bay.
- **Number of Active Vessels:** MFS’s sea turtle determination includes an approximate count of active vessels in each fishery and the approximate location of this activity (see Table MD-1). The fishing locations are defined in Figure MD-1. Using the sea turtle determination as a starting point, we worked with experts at Maryland DNR to establish approximate numbers of vessels fishing in each relevant location, by month.³⁷ For the Chesapeake Bay segment of the blue crab fishery, we assume that all 500 vessels are active during the season running from April through December. DNR staff indicate that activity in the Coastal Bays area peaks at about 100 vessels, but is minimal in the November-December period. The Chesapeake Bay portion of the fish pot fishery generally targets catfish, and operates year-round. In contrast, fish pot vessels in Atlantic Ocean state waters target black sea bass, tautog, and scup, and are few in number.

Gillnet

- **Number of Active Vessels:** Data compiled for the sea turtle determination indicate that anchored gillnet vessels operate in Maryland’s Coastal Bays and the state waters portion of the Atlantic.³⁸ These vessels generally target striped bass, croaker, spot, and spiny dogfish. Table MD-1 summarizes the number of active vessels and their approximate location.

³⁷ The assessment of fishing activity has been updated to approximate 2010 figures based on personal communication with Steve Early, Deputy Director of the NMFS/MDNR Cooperative Oxford Laboratory, October 12, 2011.

³⁸ Maryland prohibits anchored gillnets in Chesapeake Bay.

Gear Configurations For Model Vessels

Blue Crab

- **Total Pots Fished per Blue Crab Vessel:** Based on fishing activity reports, MDNR recommends assuming 400 traps fished per blue crab vessel active in Chesapeake Bay. Vessels fishing in Coastal Bays are required to fish fewer traps; data indicate that these vessels fished approximately 160 traps per vessel in 2010.
- **Traps per Trawl:** MDNR representatives indicate that most blue crab potting occurs south of the Chesapeake Bay Bridge, and that in this area, 75 percent of fishermen fish single pots. The remaining 25 percent fish pots connected on long lines. Lacking information on the typical number of pots per long line, we assume 12. All vessels fishing in Coastal Bays are assumed to fish singles.
- **Vertical Lines:** When pots are fished in long lines, fishermen use two different configurations. One group uses two vertical lines, with a buoy line attached to each end of the long line. Another group uses four vertical lines, two at each end of the trawl: a buoy attached to the long line, and a second line extending from the buoy to a bottom anchor. We assume an equal distribution of these two configurations.
- **Groundline:** For all long lines, we assume a groundline length of 100 feet between each pot.

Other Pot Fisheries

- **Total Pots Fished:** MDNR does not maintain data on the number of pots fished per eel pot or fish pot vessel. The model vessels for these two fisheries incorporate data from neighboring Virginia. Specifically, the model assumes that eel pot vessels fish an average of 100 pots, while fish pot vessels fish an average of 50 pots.
- **Traps per Trawl:** We assume that fish and conch pots are fished as singles.
- **Endlines per Trawl:** The model assumes that traps/pots fished as singles have one vertical line.
- **Anchor Lines:** We assume that anchor lines are not used.

Gillnet

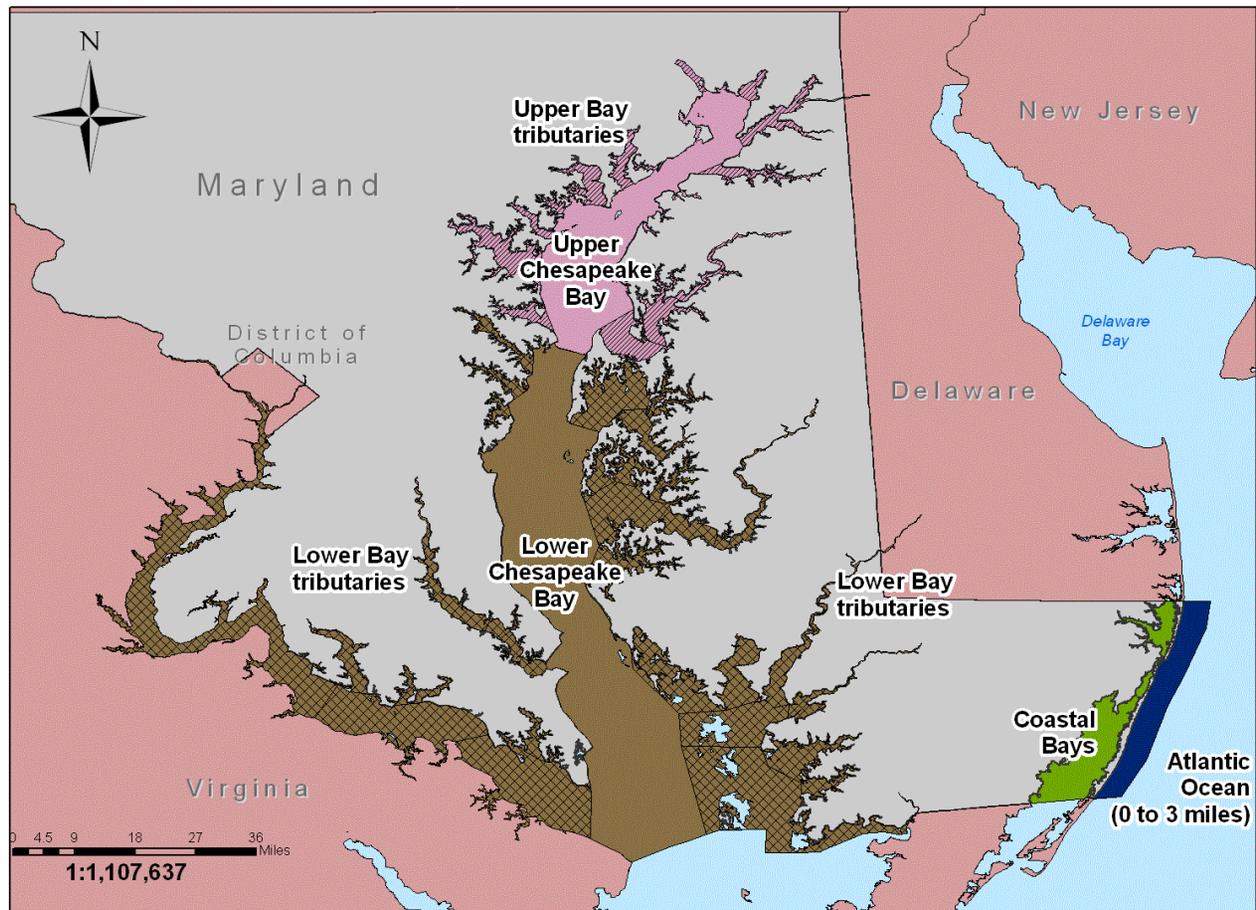
- **Strings Fished per Vessel:** MDNR representatives indicate that a licensee typically fishes two strings, each with a 900 foot net. Total net length is restricted to 1,800 feet per licensee. Consistent with MDNR recommendations, we assume that two licensees fish from each vessel; hence, the model assigns four strings to each vessel.

- **Panel Dimensions:** Based on information from MDNR, nets are assumed to be approximately 900 feet long and 6 to 10 feet high.
- **Other:** The model assumes two surface lines and two 10-foot anchor lines for each gillnet string.

TABLE MD-1. NUMBER OF ACTIVE VESSELS IN MARYLAND STATE WATERS

FISHERY	AREA	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Blue Crab	Chesapeake Bay				500	500	500	500	500	500	500	500	500
	Coastal Bays				100	100	100	100	100	100	100	5	5
Eel Pot	Chesapeake Bay		25	25	25	25	25	25	25	25	25	25	25
	Coastal Bays			5	5	5				5	5	5	
Fish Pot	Atlantic Ocean (0-3 miles)					5					5		
	Chesapeake Bay	40	40	40	40	40	40	40	40	40	40	40	40
Gillnet	Coastal Bays	5	5	5	5	5	5	5	5	5	5	5	5
	Atlantic Ocean (0-3 miles)	10		10	10							10	10

FIGURE MD-1. MARYLAND FISHING AREAS



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December, 2009Sources:
1. Maryland Department of Natural Resources
2. Environmental Systems Research Institute (ESRI)

TABLE MD-2. GEAR CONFIGURATION ASSUMPTIONS FOR TRAP/POT FISHERIES IN MARYLAND STATE WATERS

FISHERY	AREA	PERCENT OF VESSELS	POTS PER LONG LINE	AVERAGE POTS/TRAPS FISHED PER VESSEL	NUMBER OF ENDLINES	GROUNDLINE BETWEEN POTS (FEET)
Blue Crab	Chesapeake Bay	75%	Singles	400	1	N.A.
	Chesapeake Bay	12.5%	12 pots per long line	400	2	100
	Chesapeake Bay	12.5%	12 pots per long line	400	4	100
	Coastal Bays	100%	Singles	160	1	N.A.
Eel Pot	All	100%	Singles	100*	1	N.A.
Fish Pot	All	100%	Singles	50*	1	N.A.

* Estimated based on data from Virginia's harvest reporting system.

TABLE MD-3. GILLNET GEAR CONFIGURATION ASSUMPTIONS FOR MARYLAND STATE WATERS

AVERAGE NUMBER OF STRINGS FISHED	NET PANELS PER STRING	NET PANEL LENGTH (FEET)	NET PANEL HEIGHT (FEET)	ENDLINES PER STRING	ANCHOR LINES
4	1	900	6 to 10	2	2 (10 feet each)

VIRGINIA

The discussion below explains the model’s characterization of the activity and gear associated with vessels fishing in Virginia state waters.

Number of Active Vessels

Other Trap/Pot

- **Fisheries:** The Virginia Marine Resources Commission (MRC) compiles commercial fishing data as part of its harvest reporting system. MRC identifies several trap/pot fisheries operating in state waters. Significant fisheries include the hard crab fishery, the peeler (soft) crab fishery, the conch pot fishery, the eel pot fishery, and the fish pot fishery.³⁹
- **Number of Active Vessels:** Using harvest data, MRC identified individual active vessels in each fishery, organizing the data by month and fishing location. The data cover the period from 2006 to 2010. Table VA-1 summarizes the data for 2010. The fishing locations consist of nine “systems” and are defined in Figure VA-1.

Gillnet

- **Number of Active Vessels:** MRC also provided activity data for anchored gillnet vessels.⁴⁰ Table VA-1 summarizes these data by month and fishing location for 2010.

Gear Configurations For Model Vessels

Hard Crab

- **Total Pots Fished per Hard Crab Vessel:** The specification of each model vessel includes the total number of pots that the vessel typically fishes. MRC analyzed harvest data to estimate the average pots fished per hard crab vessel, by month and area, for the years 2008 through 2010. These data showed limited seasonal variation in the number of pots fished and limited variation from year to year. However, the number of pots fished varies according to fishing area. Therefore, the model specifies separate gear configurations for each fishing area, averaged across the period from 2009 through 2010 (see Table VA-2).
- **Pots per Trawl:** MRC representatives indicate that hard crab vessels typically fish single pots.

³⁹ A small minnow pot fishery also exists; this fishery is not included in the vertical line model.

⁴⁰ MRC also provided data for vessels using staked gillnets. However, the ALWTRP does not cover staked gillnet gear; therefore these vessels are not included in the vertical line model.

- **Endlines per Trawl:** The model assumes that pots fished as singles have one endline.

Other Pot Fisheries

- **Total Pots Fished:** Other pot fisheries show limited annual, seasonal, or spatial variation in the number of pots fished. Therefore, the model vessels for the peeler, conch, eel, and fish pot fisheries each incorporate a single estimate of pots fished (see Table VA-2). As with hard crab, the figure represents an average of the period from 2009 through 2010.
- **Traps per Trawl:** MRC representatives indicate that vessels in these fisheries typically fish single pots.

Gillnet

- **Strings Fished per Vessel:** MRC provided data on the number of strings fished per gillnet vessel, by month and area. This figure varies little by month, but varies significantly by fishing area. Therefore, the model specifies separate gear configurations for each fishing area, averaged across the period from 2009 through 2010 (see Table VA-3).
- **Nets per String:** MRC experts indicate that gillnet vessels typically fish one net per string.
- **Panel Dimensions:** MRC provided data on the average net feet fished by vessels in each area and month. Dividing net feet by the number of nets suggests that nets are typically 900 feet long. Based on estimates provided by the Maryland Fisheries Service, we assume that each net is approximately 6 to 10 feet high.
- **Other:** The model assumes two surface lines and two 10-foot anchor lines for each gillnet string.

TABLE VA-1. NUMBER OF ACTIVE VESSELS IN VIRGINIA STATE WATERS (2010)

FISHERY	SYSTEM/ AREA	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
Hard Crab (pot)	1			1	1		1						
	2			42	47	51	44	43	40	35	30	21	
	3			7	12	17	20	19	18	14	11	7	
	4			55	234	222	186	179	174	144	135	96	
	5			20	50	72	78	79	73	71	54	34	
	6			15	34	57	65	68	67	55	38	16	
	7			8	54	74	81	82	72	72	49	17	
	8			1	25	76	115	114	112	101	68	18	
	9			17	41	73	67	70	61	53	41	18	
Peeler (pot)	1					1							
	2				3	26	1	1	3	5	1		
	3												
	4			1	32	103	71	62	58	46	23		
	5				11	22	12	12	6	3			
	6				14	41	17	14	14	7			
	7				11	55	36	36	36	28	12		
	8					16	11	8	7	3			
	9				17	47	13	10	6	6	1		
Conch Pot	1	9	2		1	1					3	12	14
	2			1	4	2	2				2	5	2
	3												
	4			1	4	4		1			4	7	6
	5												
	6												
	7												
	8												
	9												
Eel Pot	1												
	2												
	3								1	1	1	1	
	4				1	1	1	1	1	1	1	4	
	5			1	3	2	3			4	3	1	
	6							1	1	2	2		
	7				2	1	3			3	3	1	
	8				1	5	5	2	2	2	1	1	
	9					1	1	1	1	2	2	2	
Fish Pot	1	1		1				1	2				1
	2	1	1	1	3	4	2	2	4	4	4	2	1
	3												
	4			3	1	6	4	5	8	16	18		
	5	1	3	3	5	6	6	7	4	5	5	3	3
	6				1					1	2		

FISHERY	SYSTEM/ AREA	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
Anchored Gillnet	7				5	4	3	2	3	4	1	1	
	8			7	4	1					2	1	
	9			1	2	3	5	4	5	6	4		
	1			23	34	17	12	4	7	8	15	29	30
	2			4	7	4	5	2	6	4	5	2	1
	3			2								1	1
	4		21	83	53	44	35	43	47	91	101	58	42
	5	3	21	28	19	13	13	7	5	8	12	19	30
	6	1	6	40	32	19	10	5	5	11	9	7	6
	7	7	27	48	23	30	17	13	15	16	15	14	17
	8	1	13	24	16	16	3	4	2	3	3	7	6
	9	2	4	16	21	21	17	12	21	18	18	8	4

FIGURE VA-1. AREAS FOR VIRGINIA FISHERIES

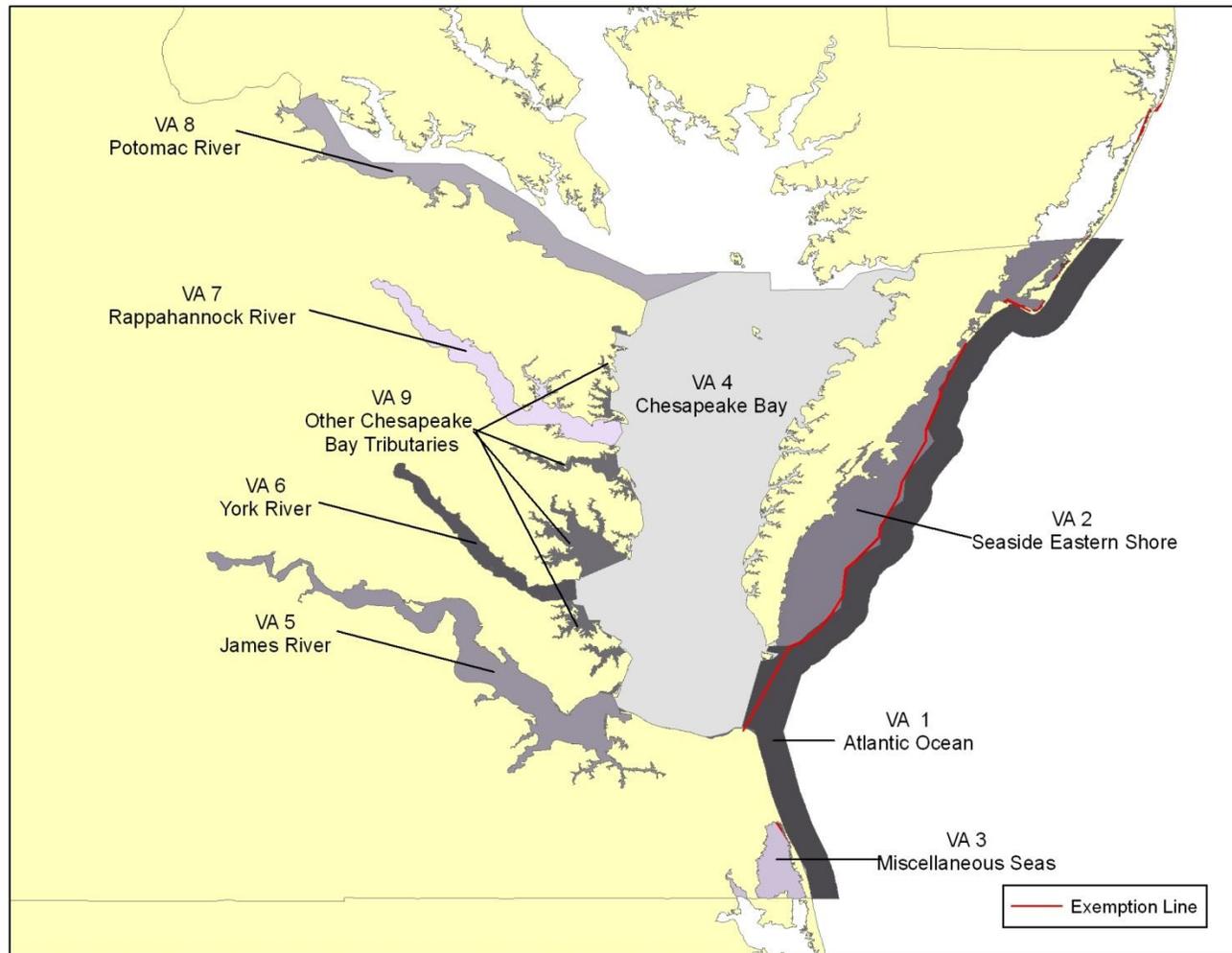


TABLE VA-2. GEAR CONFIGURATION ASSUMPTIONS FOR TRAP/POT FISHERIES IN VIRGINIA STATE WATERS

FISHERY	AREA/SYSTEM	POTS PER LONG LINE	AVERAGE POTS/TRAPS FISHED PER VESSEL	NUMBER OF ENDLINES	GROUNDLINE BETWEEN POTS (FEET)
Hard Crab	1	Singles	120	1	N.A.
	2	Singles	158	1	N.A.
	3	Singles	206	1	N.A.
	4	Singles	235	1	N.A.
	5	Singles	202	1	N.A.
	6	Singles	202	1	N.A.
	7	Singles	142	1	N.A.
	8	Singles	133	1	N.A.
	9	Singles	151	1	N.A.
Peeler Crab	All	Singles	168	1	N.A.
Conch Pot	All	Singles	207	1	N.A.
Eel Pot	All	Singles	79	1	N.A.
Fish Pot	All	Singles	51	1	N.A.

TABLE VA-3. ANCHORED GILLNET GEAR CONFIGURATION ASSUMPTIONS FOR VIRGINIA STATE WATERS

AREA/SYSTEM	AVERAGE NUMBER OF STRINGS FISHED	NET PANELS PER STRING	NET PANEL LENGTH (FEET)	NET PANEL HEIGHT (FEET)	ENDLINES PER STRING	ANCHOR LINES PER STRING
1	5	1	900	6 to 10	2	2 (10 feet each)
2	3	1	900	6 to 10	2	2 (10 feet each)
3	2	1	900	6 to 10	2	2 (10 feet each)
4	5	1	900	6 to 10	2	2 (10 feet each)
5	3	1	900	6 to 10	2	2 (10 feet each)
6	3	1	900	6 to 10	2	2 (10 feet each)
7	3	1	900	6 to 10	2	2 (10 feet each)
8	2	1	900	6 to 10	2	2 (10 feet each)
9	2	1	900	6 to 10	2	2 (10 feet each)

NORTH CAROLINA

The discussion below explains the model’s characterization of the activity and gear associated with vessels fishing in North Carolina state waters.

Number of Active Vessels

Other Trap/Pot

- **Number of Active Vessels and Trips:** The North Carolina Department of Environmental and Natural Resources (DENR) Division of Marine Fisheries (DMF) provided detailed trip ticket data on the activity of vessels in the state’s black sea bass pot fishery from 2006 to 2010. DENR/DMF summarized the number of vessels, organizing the data by year, month, and area.⁴¹ As shown in Table NC-1, the data characterize activity in four areas, including two in state waters (north and south of Cape Hatteras) and two in Federal waters (i.e., more than three miles off the coast, north and south of Cape Hatteras). The model assumes that the activity reported for each of the four areas is evenly distributed throughout that area.
- The model directly incorporates the state data on fishing activity for the two areas within three miles of shore (i.e., state waters). Fishing in Federal waters is handled separately in the model through analysis of Southeast logbook data; the data provided by DENR/DMF will be used to validate the logbook results.
- The data suggest that in 2010, a single vessel fished for crab in North Carolina state waters. Because of the *de minimis* nature of this activity, it is not included in the model.

Gillnet

- **Number of Active Vessels:** DENR/DMF provided similar trip ticket data for gillnet vessels. As with pot vessels, the data summarize the number of vessels, organized by year, month, and four geographic areas (see Table NC-2). As with the pot fishery, the model assumes that the activity reported for each of the areas is evenly distributed throughout that area. Similarly, the data on activity in state waters is used directly in the model, while data on activity in Federal waters will be used to validate NMFS logbook data.

⁴¹ DENR/DMF representatives indicate that a small crab pot fishery also exists in inshore waters south of Cape Hatteras, but is limited to a few vessels that fish in shallow water in the winter months. Because it operates only in shallow water, the model excludes this fishery.

Gear Configurations For Model Vessels

Other Trap/Pot

- **Total Pots Fished:** The specification of each model vessel includes the total number of pots/traps that the vessel typically fishes. A 2009 article in *Marine Policy* analyzed data suggesting that black sea bass fishermen in northern North Carolina fish an average of 41 pots, while those in southern areas fish an average of 81 pots.⁴² DENR/DMF staff reviewing this profile suggested that 81 pots for the southern areas seems high; fishermen suggest that an average of 50 pots is more typical. Therefore, for model vessels north of Cape Hatteras, we assume 41 pots, and for model vessels south of Cape Hatteras, we assume 65 pots (the rough midpoint of the *Marine Policy* estimate and DENR/DMF guidance). The model assumes that this average is constant year-round, i.e., we make no seasonal adjustment to the number of traps fished per model vessel. The assumptions for pots fished are reasonably consistent with information provided by state experts. Specifically, DENR/DMF suggests that black sea bass vessel operators use two different fishing methods. Under one method, fishermen use approximately 20 to 30 pots, hauling them frequently and returning to port with their gear. Under another method, fishermen fish up to 100 pots, soaking them overnight or longer.
- **Traps per Trawl:** Each model vessel incorporates an estimate of the number of traps per trawl. The 2009 *Marine Policy* article estimated that vessels in northern North Carolina typically fish five pots per trawl, while those in southern North Carolina fish singles or two pots per trawl. Our model vessels assume five pots per trawl in the north and 1.5 pots per trawl in the south.
- **Endlines per Trawl:** For vessels fishing five-pot trawls (northern NC), the model assumes two endlines. For vessels fishing one to two pots per trawl, the model assumes one endline.
- **Groundline Between Traps:** The 2009 *Marine Policy* article found that vessels in northern North Carolina fish with 10 to 20 feet of groundline between pots, while vessels in southern North Carolina fish with 20 to 60 feet of groundline between pots. Therefore, the model assumes 15 feet of groundline between pots in the north and 40 feet between pots in the south (the mid-point of the ranges provided).

⁴² Levesque, Juan C., “Characterization of the southeastern US black sea bass (*Centropristis striata*) pot commercial fishery and implications for western North Atlantic right whale (*Eubalaena glacialis*) management and policy,” *Marine Policy*, 33 (2009) 40-48.

Gillnet

- The Fishery Liaison in NMFS' Southeast Regional Office provided detailed data on gear configurations used by different segments of the North Carolina gillnet fishery operating in state waters.⁴³ Table NC-4 summarizes the data provided while Table NC-5 presents the parameters applied in the model.⁴⁴ The Table NC-5 parameters are applied to vessels fishing within three miles from shore (see above); vessels fishing in Federal waters are handled separately in the model.
- **Total Strings Fished and Seasonal Variation:** We estimate the number of strings fished based on data on the yards of net fished and string length. The model allows for seasonal variation in the number of strings fished per vessel. The model vessels effectively assume that gillnet vessels fishing from October through May include a mix of small mesh and spring Spanish mackerel vessels; hence, the gear configuration assumptions represent an average of the small mesh and spring Spanish mackerel parameters. Specifically, we assume 6.8 strings fished per vessel. Vessels fishing from June through September include large mesh as well as summer Spanish mackerel vessels; the model assumes that half the active vessels in these months fish the large mesh configuration, (8.6 strings per vessel) while half fish the summer mackerel configuration (one string per vessel).
- **Panels per String:** The number of panels per string is derived by dividing the yards per string by 100 yards (the standard panel length). In all fisheries, strings are tied with as little space as possible between panels.
- **Panel Dimensions:** NMFS-SERO indicates that all panels are 300 feet long. As Table NC-5 indicates, the height of the panels varies by fishery, depending on mesh size and depth.
- **Buoy Lines:** The model assumes that all gillnet vessels fish strings with two buoy lines.
- **Anchor Lines:** NMFS-SERO indicates that all gillnet vessels fish strings with one anchor line used at the head of the net (i.e., based on the direction of the wind or current). Anchor line length varies by fishery.

⁴³ DENR/DMF representatives also collaborated on the development of the gear configuration profiles provided by NMFS-SERO.

⁴⁴ A small fishery targeting spot during September and October also exists, but NMFS-SERO indicates that data on gear configurations used in this fishery are less readily available. Since these vessels fish less gear than other gillnet vessels, the model may slightly overstate the number of vertical lines deployed in these months.

TABLE NC-1. NUMBER OF ACTIVE VESSELS IN NORTH CAROLINA FISH POT (BLACK SEA BASS) FISHERY

YEAR	AREA	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
2010	Ocean >3 mi, N of Cape Hatt	1		1	3		1						
	Ocean >3 mi, S of Cape Hatt	1					11	9	10	12	8	1	23
	Ocean 0-3 mi, N of Cape Hatt				1								
	Ocean 0-3 mi, S of Cape Hatt												
2009	Ocean >3 mi, N of Cape Hatt	3	1										
	Ocean >3 mi, S of Cape Hatt	18	20	18	12	3	9	6	11	10	13	14	12
	Ocean 0-3 mi, N of Cape Hatt												
	Ocean 0-3 mi, S of Cape Hatt				1						1	1	

TABLE NC-2. NUMBER OF ACTIVE VESSELS IN NORTH CAROLINA GILLNET FISHERY

YEAR	AREA	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
2010	Ocean >3 mi, N of Cape Hatt	32	55	46	17	4	1	1	1	2	4	3	10
	Ocean >3 mi, S of Cape Hatt	10	28	33	4		1			1	6	9	22
	Ocean 0-3 mi, N of Cape Hatt	90	58	21	22	8	4	2	3	10	9	4	5
	Ocean 0-3 mi, S of Cape Hatt	109	31	45	56	36	18	15	18	31	75	89	47
2009	Ocean >3 mi, N of Cape Hatt	44	47	35	21	1	2	1	1	5	2	6	28
	Ocean >3 mi, S of Cape Hatt	7	18	21	8	2				4	7	16	9
	Ocean 0-3 mi, N of Cape Hatt	138	42	24	18	11	4	4	6	18	20	7	21
	Ocean 0-3 mi, S of Cape Hatt	63	35	37	54	33	27	13	18	62	97	88	44

TABLE NC-3. BLACK SEA BASS GEAR CONFIGURATION ASSUMPTIONS

MODEL VESSEL AREA	POTS FISHED PER VESSEL	POTS PER TRAWL	NUMBER OF ENDLINES	GROUNDLINE BETWEEN POTS (FEET)
Ocean >3 mi, N of Cape Hatt	41	5	2	15
Ocean >3 mi, S of Cape Hatt	65	1.5	1	40
Ocean 0-3 mi, N of Cape Hatt	41	5	2	15
Ocean 0-3 mi, S of Cape Hatt	65	1.5	1	40

TABLE NC-4. GILLNET GEAR CONFIGURATION DATA PROVIDED BY NMFS-SERO

FISHERY	PRIMARY SEASON	YARDS OF NET FISHED*	YARDS PER STRING*	ESTIMATED PANELS PER STRING	ESTIMATED NUMBER OF STRINGS FISHED	BUOY LINES PER STRING	ANCHOR LINES PER STRING	ANCHOR LINE LENGTH* (FEET)	NET PANEL LENGTH (FEET)	NET PANEL HEIGHT (FEET)
Fall/Winter/Spring Small Mesh	Oct-May	1,000	200	2.00	5.00	2	1	30.0	300	6.8
Spring Spanish Mackerel	May	1,300	150	1.50	8.67	2	1	37.5	300	8.6
Large Mesh	June-Oct	1,500	175	1.75	8.57	2	1	17.5	300	10.2
Summer Spanish Mackerel	June-Aug	1,250	1,250	12.50	1.00	2	1	45.0	300	12.1

* Figure represents the mid-point of range provided by NMFS-SERO Fishery Liaison.

TABLE NC-5. MODEL VESSEL ASSUMPTIONS FOR GILLNET GEAR IN NORTH CAROLINA STATE WATERS

		YARDS OF NET FISHED	YARDS PER STRING	ESTIMATED PANELS PER STRING	ESTIMATED NUMBER OF STRINGS FISHED	BUOY LINES PER STRING	ANCHOR LINES PER STRING	ANCHOR LINE LENGTH (FEET)	NET PANEL LENGTH (FEET)	NET PANEL HEIGHT (FEET)
Model Vessel Parameters for All Gillnet Vessels Fishing October through May (average of small mesh and spring mackerel)		1,150	175	1.75	6.83	2	1	33.8	300	7.7
Model Vessel Parameters for Gillnet Vessels Fishing June through September	50% Large Mesh	1,500	175	1.75	8.57	2	1	17.5	300	10.2
	50% Summer Mackerel	1,250	1,250	12.50	1.00	2	1	45.0	300	12.1

SOUTH CAROLINA

The discussion below explains the model’s characterization of the activity and gear associated with vessels fishing in South Carolina.

Number of Active Vessels

- **Number of Active Blue Crab Vessels:** The South Carolina Department of Natural Resources Office of Fisheries Management (DNR/OFM) provided 2010 data on the number of active vessels in South Carolina’s blue crab fishery. The fishery operates almost exclusively inshore, in rivers and estuarine waters landward of the COLREGS line that are exempt under the ALWTRP. Table SC-1 shows the number of active blue crab vessels by month and area. The model spreads the inshore activity evenly throughout South Carolina inshore waters.⁴⁵
- **Other Fisheries:** Pot vessels also land black sea bass in South Carolina. DNR/OFM indicates, however, that all black sea bass pots are fished in Federal waters. The vertical line model characterizes activity in Federal waters using data from NMFS’ Southeast Logbook database. Recent data (2009 and 2010) indicate that a single gillnet vessel targeted spot in state waters in isolated months. DNR/OFM experts indicate that trips and landings associated with this vessel were minimal. Because of the de minimis nature of this activity, the model does not incorporate this gillnet effort.

Gear Configurations For Model Vessels

- **Total Pots Fished:** DNR/OFM data indicate that blue crab vessels fish an average of 83 pots per vessel. The data show little seasonal variation, and only limited variation between specific areas.
- **Traps per Trawl:** DNR/OFM requires that blue crab vessels fish pots as singles (not in trawls).

⁴⁵ Note that DNR/OFM collects inshore crabbing data at a finer geographic resolution, recording effort in 21 individual inshore areas. Given that inshore waters are exempt under the ALWTRP, the model does not segment vessel activity at this level of geographic precision.

TABLE SC-1. NUMBER OF ACTIVE BLUE CRAB VESSELS IN SOUTH CAROLINA STATE WATERS (2010)

WATERS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Inshore (Exempt) Waters	88	75	90	139	126	109	120	123	116	103	110	110
Non-Exempt State Waters												1

GEORGIA

This profile provides an overview of the data and assumptions used to characterize commercial fishing activity in Georgia state waters.

Number of Active Vessels

Data Sources

- The Georgia Department of Natural Resources Wildlife Resources Division (DNR/WRD) provided data on fixed-gear fisheries operating in both state and Federal waters. These data are based on information gathered via mail and phone surveys conducted between December 2009 and February 2010. The state's research effort did not attempt to quantify inter-annual variability in effort, but focused on those who held licenses to fish for blue crab or black sea bass in 2009. DNR/WRD summarized the survey findings in a paper provided to NMFS.⁴⁶ Although the survey targeted conditions in 2009, DNR/WRD representatives verify that changes in the fisheries have been limited; thus, the survey results are reasonably reflective of 2010 conditions.⁴⁷

Blue Crab

- **Number of Pots Fished:** The primary fixed-gear fishery targets blue crab. Georgia reports that 140 fishermen were licensed to harvest blue crab in December 2009. The majority of blue crab effort occurs inshore in rivers and sounds. DNR/WRD's research focused on the subset of the blue crab vessels that routinely fish in ocean waters. Using data gathered in surveys (adjusted to account for non-respondents), DNR/WRD estimated the total number of pots fished in each month, both in state ocean waters (zero to three miles off shore) and in Federal waters.⁴⁸ The results are summarized in Table GA-1. As shown, the majority of activity occurs from December through March.
- **Number of Active Vessels:** The number of active vessels in ocean waters can be estimated by dividing the total number of pots fished by the average pots per blue crab vessel. Survey findings indicate that vessels operating in Georgia state waters fish an average of 65 pots, while vessels in Federal waters fish an average of 22. In addition, however, information gathered by DNR/WRD suggests that a maximum of 25 blue crab vessels fish in ocean waters. To constrain the number of vessels fishing in state ocean waters to 25, we assume

⁴⁶ George, Clay, "Commercial Trap and Pot Fishing Effort in Georgia Ocean Waters: A Report to the Atlantic Large Whale Take Reduction Team," March 1, 2010.

⁴⁷ Personal communication with Clay George, Georgia DNR, September 20, 2011.

⁴⁸ The model directly incorporates the data on fishing activity in state waters. Fishing in Federal waters is handled separately in the model through analysis of Southeast logbook data; the data provided by DNR/WRD will be used to validate the logbook results.

an average of 83 pots for vessels in state waters. Table GA-1 presents the resulting estimate of the number of blue crab vessels operating in each area.⁴⁹

Other Fisheries

- DNR/WRD identified two vessels targeting black sea bass; however, both these vessels operate in Federal waters and will be captured in the model's analysis of Southeast logbook data. DNR/WRD is not aware of any anchored gillnet vessels fishing in Georgia state waters.

Gear Configurations For Model Vessels

- **Pots Fished per Blue Crab Vessel:** The specification of each model vessel includes the total number of pots that the vessel typically fishes. As noted, survey responses indicate that vessels operating in Federal waters fish an average of 22 pots. For Georgia state waters, the model incorporates an average of 83 pots (see above). This figure is reasonably commensurate with survey findings that indicated an average of 90 pots per vessel in January and February, and an overall average of 65 pots per vessel across all months.
- **Traps per Trawl:** Pot trawls are prohibited in Georgia state waters; all pots are fished as singles.
- **Other:** The model assumes one endline per pot with no anchor lines.

⁴⁹ DNR fisheries experts note that the method employed may overstate active vessels given that fishermen may move their traps between state waters and offshore waters. As a result, the estimate of vessels in state waters should be considered an upper bound.

TABLE GA-1. TOTAL POTS FISHED AND NUMBER OF ACTIVE BLUE CRAB VESSELS IN GEORGIA

AREA		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Georgia State Waters (0-3 miles off shore)	Number of Pots Fished	2,034	2,072	1,224	91	76	-	-	-	-	-	-	570
	Estimated Number of Active Vessels (assumes 83 pots per vessel)	25	25	15	1	1	-	-	-	-	-	-	7
Federal Waters (3-6 miles off shore)	Number of Pots Fished	550	550	532	-	-	-	-	-	-	-	-	380
	Estimated Number of Active Vessels (assumes 22 pots per vessel)	25	25	24	-	-	-	-	-	-	-	-	17

TABLE GA-2. GEAR CONFIGURATION ASSUMPTIONS FOR GEORGIA BLUE CRAB FISHERY

AREA	POTS PER TRAWL	AVERAGE POTS/TRAPS FISHED PER VESSEL	NUMBER OF ENDLINES	GROUNDLINE BETWEEN POTS (FEET)
Georgia State Waters	Singles	83	1	N.A.
Federal Waters	Singles	22	1	N.A.

FLORIDA

The discussion below explains the model’s characterization of the activity and gear associated with vessels fishing in Florida state waters.

Number of Active Vessels

Trap Fishery

- **Fisheries:** Representatives of Florida’s Fish and Wildlife Conservation Commission (FWC) indicate that the trap fishery operating in state waters subject to the ALWTRP is primarily associated with the harvest of blue crab (over 90 percent). Some additional effort focuses on the harvest of stone crab. A small amount of residual effort associated with finfish exists, but is not included in our data analysis.
- **Number of Active Fishers:** FWC provided detailed trip ticket data on the number of fishers operating in Florida state waters, organizing the data by fishery, year (2000 through 2010), month, and area.⁵⁰ Five areas – 722, 728, 732, 736, and 741 – are located in ALWTRP waters; Figure FL-1 shows the boundaries of these areas.⁵¹
- **Inshore and Offshore Effort:** Much of the trap fishery is prosecuted in inshore waters (rivers, estuaries, etc.). These areas are located landward of the COLREGS line and are therefore exempt from the ALWTRP. We estimate the number of fishers active in inshore versus offshore waters using supplementary data provided by FWC. These data compile the monthly number of trips to subareas within each major area. For example, area 722 is divided into five subareas; two represent offshore waters while the remaining areas (the St. Marys River, Nassau River, and St. Johns River) represent inshore waters. We calculate the percent of trips in offshore and inshore areas for each area/month combination, then apply this percentage to the total number of fishers active in the area/month.⁵² Table FL-1 summarizes these calculations.

Other Fisheries

Florida does not allow anchored gillnets in state waters.

⁵⁰ The FWC data characterize activity according to the number of “fishers”. The model appropriately equates fishers with vessels, although a given fisher may operate more than one vessel under a given permit.

⁵¹ FWC also provided data for area 717, Georgia state waters. In most months and years, however, no Florida vessels are active in this area.

⁵² FWC also provided the number of active vessels (fishers) by subarea and month. However, these data appear to double-count vessels active in more than one subarea, and would likely lead to an overestimate of the total number of active vessels.

Gear Configurations For Model Vessels

- **Total Traps Fished:** The specification of each model vessel includes the total number of traps that the vessel typically fishes. Lacking specific data on the number of traps fished per vessel, FWC provided trip ticket data characterizing the number of traps hauled per licensee, organized by month and area. Translating the number of trap hauls to an estimate of the number of traps fished requires assumptions regarding the frequency with which traps are hauled. FWC suggests that it is reasonable to assume that each trap is hauled 10 times per month (i.e., every three days). Using this assumption, we estimate the average number of traps per licensee by area based on 2010 data (see Table FL-2).
- **Traps per Trawl:** FWC indicates that vessels fish traps singly, not in multi-trap trawls.
- **Endlines per Trawl:** For all fisheries, the model assumes one endline per trap.

FIGURE FL-1. FLORIDA FISHING AREAS

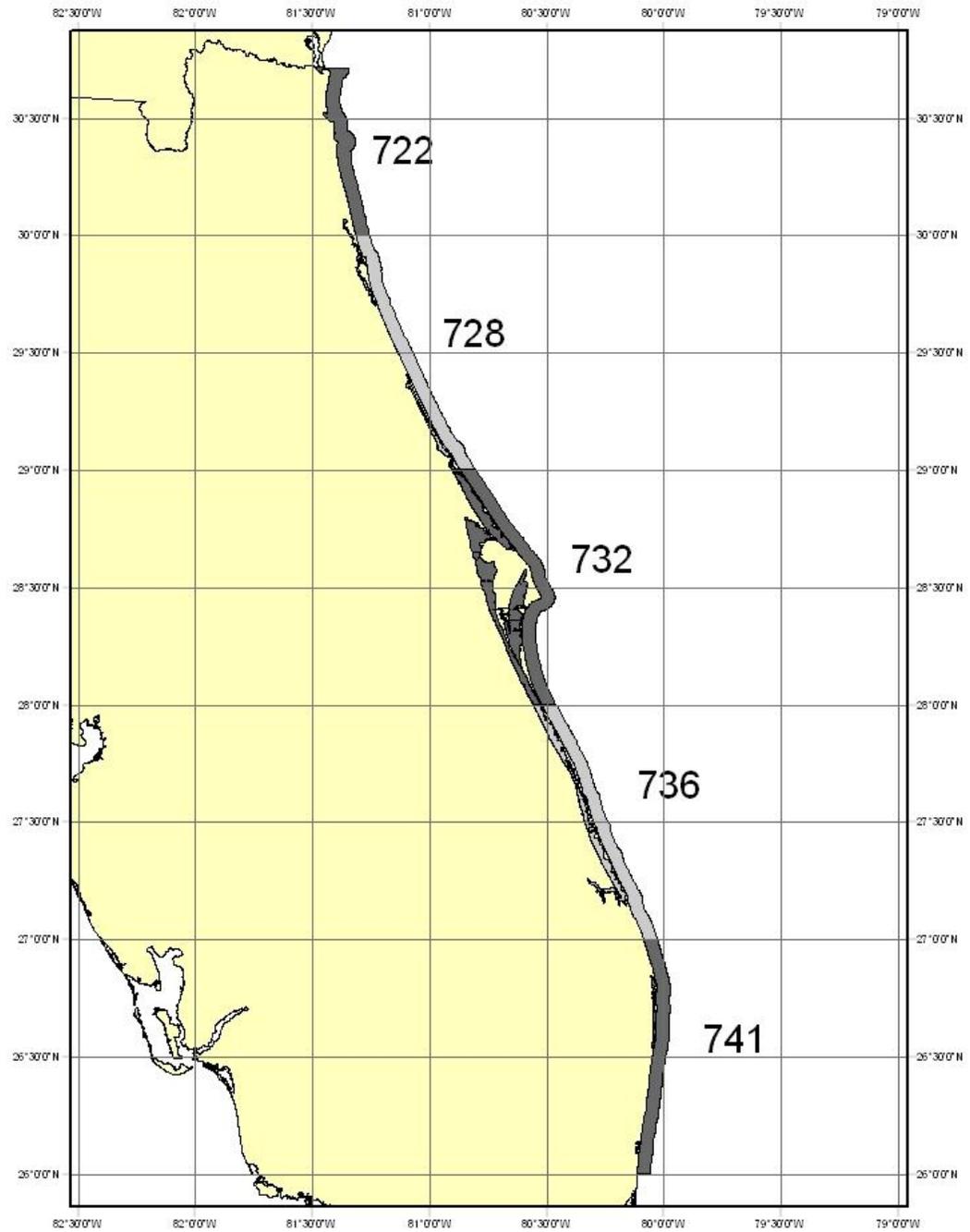


TABLE FL-1. NUMBER OF ACTIVE TRAP FISHERS IN FLORIDA STATE WATERS (2010)

	AREA	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Aggregate Number of Active Fishers	722	25	26	28	37	35	39	44	45	41	41	34	30
	728	33	29	25	28	32	35	35	39	39	46	53	39
	732	42	46	57	78	83	78	64	53	46	48	40	32
	736	5	5	4	10	8	6	7	8	10	8	6	7
	741	5	2	3	4	4	2	2	5	5	10	7	6
Percent of Trips to Offshore Areas	722	16.4%	9.0%	3.3%	1.7%	1.8%	0.0%	1.2%	1.0%	2.1%	3.6%	0.0%	3.9%
	728	4.5%	5.6%	9.4%	11.5%	5.2%	2.9%	0.3%	3.4%	3.6%	4.3%	1.2%	3.3%
	732	0.0%	0.3%	1.0%	4.2%	4.8%	0.8%	0.9%	0.7%	1.2%	1.9%	0.0%	0.0%
	736	0.0%	2.9%	2.3%	0.0%	1.3%	0.0%	0.0%	0.0%	0.0%	0.0%	4.7%	3.4%
	741	33.3%	0.0%	40.0%	7.7%	16.0%	0.0%	5.0%	0.0%	0.0%	9.5%	12.5%	0.0%
Number of Fishers Active in Offshore Waters	722	4	2	1	1	1	-	1	0	1	1	-	1
	728	1	2	2	3	2	1	0	1	1	2	1	1
	732	-	0	1	3	4	1	1	0	1	1	-	-
	736	-	0	0	-	0	-	-	-	-	-	0	0
	741	2	-	1	0	1	-	0	-	-	1	1	-
Number of Fishers Active in Inshore Waters	722	21	24	27	36	34	39	43	45	40	40	34	29
	728	32	27	23	25	30	34	35	38	38	44	52	38
	732	42	46	56	75	79	77	63	53	45	47	40	32
	736	5	5	4	10	8	6	7	8	10	8	6	7
	741	3	2	2	4	3	2	2	5	5	9	6	6

TABLE FL-2. GEAR CONFIGURATION ASSUMPTIONS FOR TRAP VESSELS FISHING IN FLORIDA STATE WATERS (2010)

MODEL VESSEL AREA	TRAPS FISHED PER LICENSE	TRAPS PER TRAWL	NUMBER OF ENDLINES	GROUNDLINE BETWEEN TRAPS (FEET)
722	196	1	1	N.A.
728	138	1	1	N.A.
732	231	1	1	N.A.
736	140	1	1	N.A.
741	54	1	1	N.A.

APPENDIX A
DATASETS INCLUDED IN THE NARWC SPUE DATA

Mid-Atlantic and Southeast US (west of 72 00 W) survey data sources currently included in the North Atlantic Right Whale Consortium database or in a separate database (identically formatted) created for the SEUS Navy Marine Resource Assessments. These data were all included in the SPUE dataset sent to Industrial Economics for the ALWTRT.

AERIAL SURVEYS:

CETAP line-transect surveys, AT-11—1978, 1979, 1980, 1981
 CETAP line-transect training flights, AT-11—1978, 1979
 CETAP POP surveys, private single-engine aircraft, USCG Albatross, B-N Islander, USCG helicopter—1978, 1979, 1980, 1981
 Continental Shelf Associates, offshore surveys, Skymaster—1996, 1997
 Associated Scientists at Woods Hole, SEUS blimp surveys—1991, 1992, 1993, 1994
 Florida Wildlife Research Institute, nearshore, misc. aircraft—1992-1999
 FWRI, offshore surveys, misc. aircraft—1996, 1997, 1998
 FWRI, nearshore, Skymaster—1999-2002
 FWRI, nearshore, low-wing twin—2002
 FWRI, EWS surveys—2002-2010
 Georgia DNR, nearshore, misc.—1993-1998
 Georgia DNR, nearshore, Skymaster—2001, 2002
 Georgia DNR, nearshore, Partenavia—1998-2001
 Georgia DNR, offshore, misc.—1996
 Georgia DNR, offshore, Skymaster—1998-2001
 Georgia DNR, offshore, NOAA Twin Otter—2001, 2002
 Wildlife Trust, Georgia, nearshore, NOAA Twin Otter—2002-2010
 Wildlife Trust, offshore, Skymaster—2002, 2003
 Wildlife Trust, offshore, NOAA Twin Otter—2003, 2004
 Wildlife Trust, South Carolina, nearshore, Skymaster—2004-2010
 New England Aquarium, nearshore, misc.—1988-1997
 New England Aquarium, North & South Carolina, misc.—2000
 New England Aquarium, EWS, Skymaster—1997-2010
 New England Aquarium, MMS line-transect surveys, Skymaster—1989-1992
 URI, Florida-Georgia, AT-11—1987
 Riverhead, New York, Twin Otter—2005
 UNC Wilmington, USWTR, Wallops & Onslow, Skymaster—1998, 1999
 UNC Wilmington, North Carolina, Skymaster, 2001, 2002
 Navy, ship shock trials?, Skymaster—1995, 1997, 1999
 NMFS, AT-11/Twin Otter comparison—1991
 NMFS, SECAS, Twin Otter—1992, 1995
 NMFS, MATS, Twin Otter, 1995, 2002, 2004, 2005
 NMFS, stock assessment, Twin Otter—1995, 1998, 2004
 NMFS, right whale, Twin Otter—1999-2007
 NMFS, right whale, Wigeon—1999, 2001
 NMFS, right whale, Goose—2002

SHIPBOARD SURVEYS:

CETAP, POP observers, various platforms—1978, 1979, 1980

Manomet Bird Observatory, NMFS cruises—1980–1988

NMFS, Delaware II 92-05—1992

NMFS, Oregon II, 92-01—1992

NMFS, Pelican 95-01—1995

NMFS, Abel J 95-01—1995

NMFS, Delaware II 97-05—1997

NMFS, Delaware II 98-04—1998

NMFS, Gordon Gunter, AT198—1998

NMFS, Oregon II, 236—1999

NMFS, Gunter, 02-01—2002

NMFS, Gunter, cetacean—2004

NMFS, Endeavor, EN 04395—2004

NMFS, Gunter, biopsy—2005