

Economic Data Collection Program
Administration and Operations Report

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1 Introduction

1.1 Background

In January 2011, the West Coast groundfish trawl fishery transitioned to a catch share program. The catch share program consists of an individual fishing quota (IFQ) program for the shorebased trawl fleet, and cooperative programs for the at-sea mothership and catcher-processor fleets. The Economic Data Collection (EDC) program¹ was enacted as part of these new regulations to monitor the economic effects of the catch share program. Annual economic data submissions are required from all fishery participants: catcher vessels, motherships, catcher-processors, and first receivers and shorebased processors §50 CFR 660.114. Baseline, pre-catch share data, was submitted in 2011 for the 2009 and 2010 operating years. Data for the first year the fishery operated under the catch share program (2011) was submitted in 2012.

The EDC Program has enhanced the quantity and quality of economic information available for analysis and the management of the West Coast groundfish trawl fishery. Prior to the EDC Program, voluntary cost and earnings surveys were available for 64% of the shoreside catcher vessels with limited entry groundfish permits with trawl endorsements (trawl fleet) (2003-2004 collection²) and 57% of the fleet for the 2007-2008 collection³. Moreover, no cost and earnings data were available for catcher vessels that delivered to motherships.

This report describes the EDC Program administration and fielding of the surveys, the EDC forms, data QA/QC and data processing, and the handling of confidential information. Separate draft reports that provide basic data summaries from each of the four forms have also been developed. These reports are:

- Economic Data Collection Program, Catcher Vessel Report, 2009-2011 (February 2014)
- Economic Data Collection Program, Mothership Report, 2009-2011 (February 2014)
- Economic Data Collection Program, Catcher-Processor Report, 2009-2011 (February 2014)

¹Additional information on the EDC Program, including the EDC data collection forms can be found at www.nwfsc.noaa.gov/edc

²Lian, C.E. 2010. West Coast limited entry groundfish trawl cost earnings survey protocols and results for 2004. U.S. Department of Commerce, NOAA Technical Memorandum NMFS-NWFSC-107, 35 p.

³Lian, C.E. 2012. West Coast limited entry groundfish cost earnings survey: Protocol and results for 2008. U.S. Department of Commerce, NOAA Technical Memorandum NMFS-NWFSC-121, 62 p

- Economic Data Collection Program, First Receiver and Shorebased Processor Report, 2009-2011 (February 2014)

This is the first iteration of what is expected to be a series of annual reports. It is envisioned that over time, the scope of the reports will expand, and the methods used will be refined with each annual publication. As such, the data summaries and analyses may change in subsequent years as improvements are implemented.

The four data summary reports have multiple objectives. The first is to provide basic economic data summaries that can be used for a variety of purposes associated with fishery management. Since much of the data collected is confidential under the Magnuson-Stevens Fishery Conservation and Management Act (MSA) of 2007, the data are summarized as averages or sums for each question on the EDC forms. Thus summarized, the reports make the data available for public use for both informational and research purposes. Second, the data summary reports provide information about the performance of the catch share program. This includes information that can be used to monitor whether and to what degree the goals of the program are being met. It is expected that additional modeling and analysis will be included in each subsequent year. This analysis will provide more detailed information about the performance of the program. These reports will serve as the basis for the five-year review of the catch share program that is mandated in the MSA, as well as the National Marine Fisheries Service (NMFS) National Catch Shares Performance Indicators. Third, the reports either provide, or serve as the basis for economic models that will be used as part of the Pacific Fishery Management Council's (PFMC) biennial specification process for groundfish management. These models include the IO-PAC model⁴, as well as estimates of revenue, costs, and net revenue. Last, and perhaps most important, the data reports are expected to provide a useful catalyst to receive feedback on the data collected and its analysis.

1.2 Purpose of the EDC

The economic benefits of the West Coast groundfish trawl fishery and the distribution of these benefits are expected to change under the trawl catch share program. To monitor these changes, the PFMC proposed the implementation of the mandatory collection of economic data. Using data collected from industry participants, the EDC Program monitors whether the goals of the catch share program have been met. The EDC Program will also help meet the requirements of the MSA for catch share evaluation.

The Council's preferred alternative included a mandatory economic data collection provision. This provision, available in Appendix C enumerated several types of data for mandatory collection that are necessary to study the impacts of the catch share program.

Cost, revenue, ownership, employment and other information will be collected on a periodic basis (based on scientific requirements) to provide the information necessary

⁴Leonard, J., and P. Watson. 2011. Description of the input-output model for Pacific Coast fisheries. U.S. Dept. Commer., NOAA Tech. Memo. NMFS-NWFSC-111, 64 p.

to study the impacts of the program, including achievement of goals and objectives associated with the catch share program.

The provision also referenced the use of the data for other fishery management plan (FMP) actions:

These data may also be used to analyze the economic and social impacts of future FMP amendments on industry, regions, and localities.

The PFMC has enumerated several goals for the groundfish trawl catch share program that involve economic components. These goals include:

- Provide for a viable, profitable, and efficient groundfish fishery
- Increase operational flexibility
- Minimize adverse effects from an IFQ program on fishing communities and other fisheries to the extent practical
- Promote measurable economic and employment benefits through the seafood catching, processing, distribution elements, and support sectors of the industry
- Provide quality product for the consumer
- Increase safety in the fishery

The PFMC has also identified several constraints and guiding principles for the groundfish trawl catch share program:

- Minimizing negative impacts resulting from localized concentrations of fishing effort
- Avoiding provisions where the primary intent is a change in marketing power balance between harvesting and processing sectors
- Avoiding excessive quota concentration
- Providing efficient and effective monitoring and enforcement
- Designing a responsive review evaluation and modification mechanism
- Taking into account the management and administrative costs of implementing and overseeing the IFQ or co-op program and complementary catch monitoring programs and the limited state and federal resources available

The MSA also contains a monitoring requirement to determine whether a limited access privilege program (LAPP) is meeting its goals. §303A.(c)(1)(G) states that any LAPP shall:

include provisions for the regular monitoring and review by the Council and the Secretary of the operations of the program, including determining progress in meeting the goals of the program and this Act, and any necessary modification of the program to meet those goals, with a formal review 5 years after the implementation of the program and thereafter to coincide with scheduled Council review of the relevant fishery management plan (but no less frequent than once every 7 years).

The MSA also places importance on social and economic outcomes resulting from catch share programs. Sec. 303A.(c)(1)(C) states that any limited access privilege program (LAPP) to harvest fish submitted by a Council or approved by the Secretary under this section shall promote social and economic benefits.

1.2.1 EDC Program development and background

The EDC Program regulations and forms were developed with input from the Pacific Fishery Management Council (PFMC), the PFMC Scientific and Statistical Committee, the PFMC Groundfish Advisory Subpanel, the PFMC Regulatory Deeming Workgroup, industry members, industry associations and representatives, NGOs, other fishery participants, and public meetings in five coastal communities.

Under the regulations, all members of the West Coast groundfish industry harvesting or processing fish under the catch share program are required to supply economic data. Survey participants include: catcher vessels, motherships, catcher-processors, and first receivers and shorebased processors. The economic data are collected through annual surveys of costs, earnings and employment. The EDC Program worked closely with industry members in an effort to develop survey forms that are clear and concise, and to minimize the time required to complete them. Given the relatively small number of participants in the catch share fishery, and the expected consolidation, all members are required to complete the annual surveys⁵. To measure the effect of the catch share program accurately, fishery level data (i.e., West Coast groundfish trawl) is collected where that is feasible. The EDC Program will continue to work closely with industry members to improve the clarity and usefulness of the data collection forms.

It was determined that an annual data collection would be most beneficial in order to monitor and evaluate the economic effects of the trawl catch share program. Since many factors affect the fishery each year, including environmental, regulatory, economic, and others, a consistent survey providing a time series database is necessary to determine the effects of the catch share program. In order to have a baseline of conditions in the fishery prior to the catch share program, two years of data prior to the catch share program were required.

1.2.2 EDC data uses and analyses

Monitoring the economic effects of a catch share program requires a variety of economic data. In general, the data requirements depend on the types of effects that need to be monitored and the economic models used to estimate them. The primary effects of a catch share program can be captured in two broad areas of economic analysis:

1. Economic performance measures
2. Regional economic impact analysis

⁵Designing an appropriate sampling scheme is problematic with such a small population, especially with heterogeneous operations and the desire to understand the effects of the catch share program on subpopulations of participants.

Economic Performance Measures Many of the goals of the catch share program involve increasing the economic performance of the fishing industry, and providing increased net economic benefits to the nation. Economic performance measures include:

- Costs, earnings, and profitability
- Economic efficiency
- Capacity measures
- Economic stability
- Net benefits to society
- Distribution of economic net benefits
- Product quality
- Functioning of the quota market
- Incentives to reduce bycatch
- Market power
- Spillover effects in other fisheries

Estimation of economic performance measures requires information on the costs and earnings of harvesters and processors. Some of the above performance measures are derived through a tabulation of the data, while others require more sophisticated models such as cost function estimation, capacity models, and economic behavioral models. NWC and other economists, as well as researchers in other fields⁶ will use the data over time to attempt to monitor the effects listed.

Regional Economic Impact Analysis One common concern associated with catch share programs is their potential effect on regional economies. Some of these effects may increase the regional economic impacts of the fishery (e.g., increased harvest of under-utilized target species), while other may decrease the regional economic impacts of the fishery (e.g., fleet consolidation). In general, the catch share program will likely affect different regional economies in different ways.

Regional economic modeling involves quantifying these changes by tracking the expenditures of all businesses, households, and institutions within a given geographic region. The formal study of these economic relationships is done through input-output analysis, which analyzes the direct, indirect and induced effects, and the resulting economic multipliers associated with each business sector in the regional economy. An input-output model estimates:

- Economic contribution (income and employment) of the fishery to regional economies
- Distributional effects between fishing sectors

⁶As discussed later in this report, only National Oceanic and Atmospheric Administration (NOAA) economists or contractors will have access to the disaggregated data. Nevertheless, a wide variety of useful analyses can be completed with the aggregated data.

- Distributional effects across regional economies
- Measures that can be used to help evaluate community fishery dependence.

Input-out models require data on the cost and earnings of harvesters and processors. They also require information about the location of the expenditures so they can be properly assigned to particular regional economies. On the Pacific coast, the NWFSC's IO-PAC model⁷ is used to estimate regional economic impacts. The rest of this report is organized as follows.

- Section 2: EDC Survey Population, Protocols, and Response Rates
- Section 3: Description of EDC Forms
- Section 4: QA/QC Process
- Section 5: Data Processing
- Section 6: Previous Data Collections

⁷Leonard, J., and P. Watson. 2011. Description of the input-output model for Pacific Coast fisheries. U.S. Dept. Commer., NOAA Tech. Memo. NMFS-NWFSC-111, 64 p.

2 EDC Survey Population, Protocols, and Response Rates

2.1 EDC participants

Participation in the EDC Program is mandatory according to 50 CFR 660.114¹. The regulations require submission of an EDC form to gather ongoing, annual data for 2011 and beyond, as well as a onetime collection of baseline economic data from 2009 and 2010.

The EDC Program uses four separate forms to collect data from six participant groups. These participant groups are listed below by form type:

1. Catcher vessel form

- Limited entry trawl catcher vessel owners: The owner of a catcher vessel with an attached limited entry trawl permit.
- Limited entry trawl catcher vessel lessees or bareboat charterers: A lessee or bareboat charterer of a catcher vessel with an attached limited entry trawl permit.

2. Mothership vessel form

- Motherships: For the baseline data collection, mothership participants are owners and lessees of a mothership vessel that received whiting in 2009 or 2010 according to the NMFS' NORPAC database. For 2011 and beyond, regulations define mothership participants as owners and lessees of a mothership vessel registered to a mothership permit at any time in the survey year.

3. Catcher-processor vessel form

- Catcher-processors: For the baseline data collection, catcher-processor participants are owners and lessees of a catcher-processor vessel that received whiting in 2009 or 2010 according to the NMFS' NORPAC data. For 2011 and beyond, regulations define catcher-processor participants as owners and lessees of a catcher-processor vessel registered to a limited entry trawl permit with a catcher-processor endorsement at any time in the survey year.

¹A link to the regulations can be found at the EDC Program website: www.nwfsc.noaa.gov/edc

4. First receiver and shorebased processor form

- **First Receivers:** For the baseline data collection, regulations define first receiver participants as owners and lessees of a shorebased processor, and all buyers that received groundfish or whiting harvested with a limited entry trawl permit in 2009 or 2010 according to the state fish ticket database. For 2011 and beyond, this group is defined as all owners of a first receiver site license (FRSL).
- **Shorebased Processors:** Owners and lessees of a shorebased processor that received round or headed-and-gutted IFQ groundfish or whiting from a first receiver in 2011 and beyond.

Survey participants are identified using the definitions provided above. For the baseline period, NOAA Fisheries Northwest Regional Office Groundfish Fisheries Permits Office (the Permit Office) provided the contact information for vessel owners, including catcher vessels, catcher-processors, and motherships. Contact information for buyers that received groundfish or whiting harvested with a limited entry trawl permit in 2009 or 2010 were identified using fish tickets and contact information was obtained directly from the state agencies. Lessees were identified using information provided by the vessel owner on their form. As described in the form descriptions contained in Section 3, each vessel form asks for the contact information of any entity that leased the vessel during the survey year.

For 2011 and subsequent years, contact information for all vessels and first receivers is obtained from the Permit Office. There is currently no method to identify shorebased processors that received round or headed-and-gutted IFQ groundfish, but do not have a first receiver site license.

2.2 Regulations for complete EDC forms

The regulations describe the consequences for failure to complete all required EDC forms. A “complete” EDC form is defined as a form that contains responses for all data fields, which include but are not limited to costs, labor, earnings, activity in a fishery, vessel or plant characteristics, value, quota, operational information, location of expenditures and earnings, ownership information and leasing information. The potential implications of noncompliance for each group are listed below:

1. Catcher vessel form

- **Permit owners:** a limited entry trawl permit application (including MS/CV-endorsed limited entry trawl permit) will not be considered complete until the required EDC for that permit owner associated with that permit is submitted, as specified at §660.25(b)(4)(i).
- **Vessel owners:** participation in the groundfish fishery (including, but not limited to, changes in vessel registration, vessel account actions, or if own QS permit, issuance of annual QP or IBQ pounds) will not be authorized until the required EDC for that

owner for that vessel is submitted, as specified, in part, at §660.25(b)(4)(v) and §660.140(e).

- Vessel lessees or charters: participation in the groundfish fishery (including, but not limited to, issuance of annual QP or IBQ pounds if own QS or IBQ) will not be authorized, until the required EDC for their operation of that vessel is submitted.

2. Mothership vessel form

- Permit owners: For permit owner, an MS permit application will not be considered complete until the required EDC for that permit owner associated with that permit is submitted, as specified at §660.25(b)(4)(i).
- Vessel owners: participation in the groundfish fishery (including, but not limited to, changes in vessel registration) will not be authorized until the required EDC for that owner for that vessel is submitted, as specified, in part, at §660.25(b)(4)(v).
- Vessel lessees or charters: participation in the groundfish fishery will not be authorized, until the required EDC for their operation of that vessel is submitted.

3. Catcher-processor vessel form

- Permits owners: a C/P-endorsed limited entry trawl permit application will not be considered complete until the required EDC for that permit owner associated with that permit is submitted, as specified at §660.25(b)(4)(i).
- Vessel owners: participation in the groundfish fishery (including, but not limited to, changes in vessel registration) will not be authorized until the required EDC for that owner for that vessel is submitted, as specified, in part, at §660.25(b)(4)(v).
- Vessel lessees or charters: participation in the groundfish fishery will not be authorized, until the required EDC for their operation of that vessel is submitted.

4. First receiver and shorebased processor form

- A first receiver site license application will not be considered complete until the required EDC for that license owner associated with that license is submitted, as specified at §660.140(f)(3).

2.2.1 Compliance

Compliance with the EDC regulations is promoted in three ways. First, the EDC Program contacts all entities with incomplete² forms via phone and mail (Figure 2.1) in collaboration with the permit office, the NMFS Office of Law Enforcement (OLE), and the NOAA Office of the General Council (GC). During communication attempts, the EDC Program staff informs the participant that the form is required as part of the catch share program and that all submissions must have an answer to each question. The participant is also told that the Permit Office may be not be able to

²Incomplete forms include forms that have been submitted with missing responses or forms that have never been submitted.

process administrative actions for the entity and that failure to submit an EDC form may be a violation of the Magnuson-Stevens Act. If this issue is not resolved through this process, other actions may be taken.

The second way compliance is promoted is through the Permit Office. The EDC Program and the Permit Office coordinate to encourage all entities to submit complete forms. The Permit Office has access to the EDC administration database and uses this information to confirm that an entity has completed all required EDCs. The Permit Office requires submission of a complete EDC form as part of the application process for renewing limited entry permits, quota share accounts, vessel accounts, changing vessel registration, issuance of first receiver site licenses, and issuance of quota pounds or bycatch pounds. For this reason, the Office will not review renewals of trawl-endorsed limited entry permits, quota share permits and accounts, vessel accounts, or issuance of first receiver site licenses until all associated surveys are complete (Figure 2.1).

If EDC and permit office coordinated contacts do not result in compliance, the EDC can involve OLE. OLE would most likely be involved when the entity does not have any pending administrative actions from the permit office. In these cases, NMFS reserves the right to conduct verification of economic data with the submitter of the form §660.114(e)(1). This process is referred to as an audit in the regulations. To initiate an audit, the EDC Program sends a letter via certified mail to the participant. The letter, drafted with assistance from the Permit Office, the OLE, and GC, contains information about the issues that need to be resolved, an explanation of the audit procedure, and instructions on how to resolve the issues. The participant has 20 days to respond to the audit or the participant may be considered in violation of Magnuson-Stevens Fishery Management Act §660.114(e)(2). At this point, the OLE may initiate an investigation. To date, no entity has been prevented from participating in a fishery or serving as a first receiver due to failure to submit a complete EDC.

2.3 Administration of the EDC forms

2.3.1 Mailings and deadlines

Forms are mailed to all participants identified by the Permit Office, and any lessees of vessels identified by vessel owners. The forms are mailed to participants in the beginning of May and are due on September 1 of the same year. Forms collect data from the previous fiscal year. For example, in May 2013, the 2012 EDC forms will be mailed to participants and the participants will complete the form for their 2012 fiscal year. Although the EDC forms are labeled for a particular calendar year, the data submitted is for that participant's fiscal year. Participants are instructed to use the fiscal year with the greatest overlap with the calendar year of the form. Because much of the information requested on the forms can be found on the participant's tax forms, this schedule for administering the forms is designed to allow most entities to complete their taxes before the deadline for EDC form submission.

The EDC mailing packets include three documents: a cover letter (Appendix G), an EDC fact sheet (Appendix A), and a copy of the form (Appendix H). The cover letter provides information

such as the corresponding regulations that mandate that the entity submit a complete form, instructions on how to complete the form, descriptions of recent changes that have been made to the form since the previous year, and some guidance based on common questions about previous forms.

The definition of a “complete” form is provided in both the cover letter and on the first page of each form. The participants are instructed to answer “NA” if the question is not applicable.

A reminder letter is mailed approximately a month before the September 1 submission deadline to participants who have not submitted a form or who have a submitted an incomplete form.

2.3.2 Form submission processing

As stated previously, an EDC form must be complete to meet the regulatory requirements for the EDC Program. For this reason, there is a system for tracking the status of each required form by entity (Figure 2.1).

The EDC administration database was designed and implemented in the spring of 2011 to track receipt and processing of each form. For purposes of the report, an entity is defined as a unique combination of vessel owner or lessee and vessel. There is a distinct entry for each unique combination of entity and survey year. Every communication with survey participants is logged in order to provide an administrative record for any potential enforcement actions. The date a form was received, the number of missing answers, and any potential issues found on the form are logged in the database. Additionally, the date of determination is recorded. The determination date is updated whenever the “complete” status of a form is changed. This determination date is used by the Permit Office to determine eligibility for potential administrative actions.

The number of missing answers on the form is used to determine which of two methods is used to complete the form. If there are ten or fewer missing answers, the participant may provide the information over the phone and the EDC Program staff will record that information on the form. If, on the other hand, there are more than ten missing answers, the participant is required to submit the missing information via mail or fax. This system is used to avoid the potential of communication or transcription errors when there are a large number of missing answers.

For any issues related to a form, EDC staff will contact the participant via phone and mail to resolve the issues on the forms. Occasionally communications will be made via email, but no confidential information is included in these communications because email is not considered a secure method of communication.

Participants can request help completing their form by email, fax, or through a toll-free phone number. Through continued conversations with participants, EDC staff attempt to ensure that participants understand the survey questions as thoroughly as possible to ensure the highest data quality possible.

A separate process for assessing and resolving the accuracy of the data on the form is discussed in Section 4, which discusses the QA/QC Process.

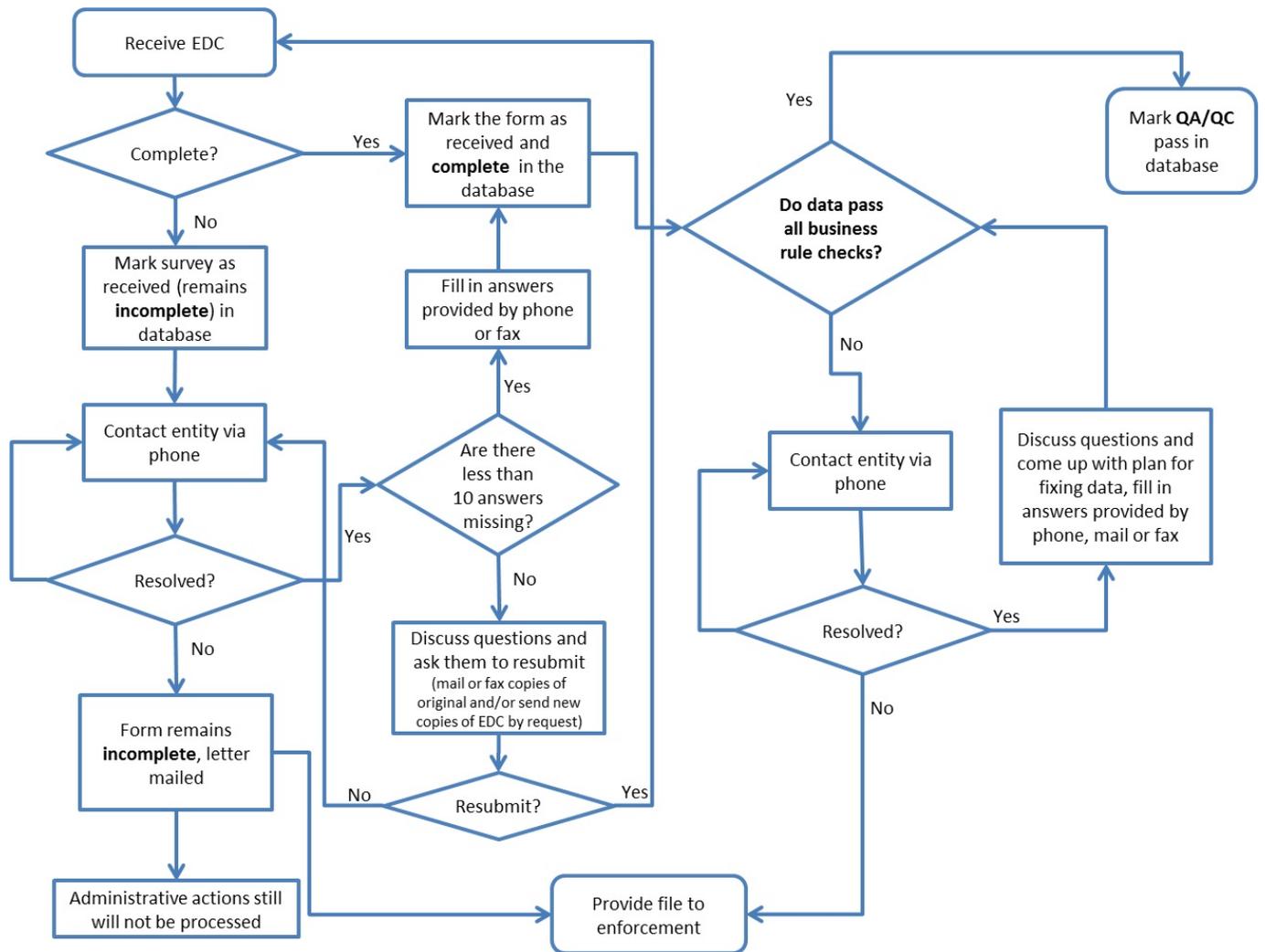


Figure 2.1: Procedures for processing EDC forms.

2.4 Response rates

Table 2.1 summarizes the disposition of the 2009-2012 forms, by form type. For the 2011 EDC, 246 forms were required and of these, 94% of all forms were submitted and complete. Of the remaining 15 forms, five were received, but incomplete, and the other ten forms were never submitted. In all survey years, the compliance rate for catcher-processors and motherships was 100%. The complete response rate for the 2011 catcher vessel was 96%, up from 88% for the 2009 forms and 92% for the 2010 forms. First receivers and shorebased processors have the lowest response rates. For the 2011 forms, 86% of the required 45 forms are complete, of the remaining, 3 are incomplete and 4 have not been submitted. The response rates for the 2009 and 2010 forms were lower at 66% and 76% complete, respectively. Despite the lower response rates in 2009 and 2010, the responses still accounted for over 90% of all groundfish purchases on the West Coast in those years.

Table 2.1: Response rates. Number of forms and percentage of total forms owed by year and survey type.

Survey type	Form status	2009		2010		2011		2012	
		N	%	N	%	N	%	N	%
First receiver or shorebased processor	Complete	37	67.3	45	77.6	47	94.0	45	83.3
	Incomplete	0	0.0	0	0.0	1	2.0	4	7.4
	Never Submitted	18	32.7	13	22.4	2	4.0	5	9.3
Catcher-processor	Complete	7	100.0	8	100.0	10	100.0	9	100.0
	Incomplete	0	0.0	0	0.0	0	0.0	0	0.0
	Never Submitted	0	0.0	0	0.0	0	0.0	0	0.0
Catcher vessel	Complete	148	88.1	149	92.0	166	96.5	154	99.4
	Incomplete	6	3.6	1	0.6	2	1.2	0	0.0
	Never Submitted	14	8.3	12	7.4	4	2.3	1	0.6
Mothership	Complete	6	100.0	8	100.0	8	100.0	6	100.0
	Incomplete	0	0.0	0	0.0	0	0.0	0	0.0
	Never Submitted	0	0.0	0	0.0	0	0.0	0	0.0

2.5 Protection of confidential data

NOAA is authorized under the MSA to collect proprietary or confidential commercial or financial information. The MSA specifies how the data should be handled, who should have access to it, and how information should be released.

The EDC Program complies with the MSA to ensure that the identity of the submitter will only be accessible to the following:

1. Personnel within NMFS responsible for the collection, processing, and storage of the statistics.
2. Federal employees who are responsible for FMP development, monitoring, and enforcement.

3. Personnel within NMFS performing research that requires confidential statistics.
4. Other NOAA personnel on a demonstrable need-to-know basis.
5. NOAA/NMFS contractors or grantees who require access to confidential statistics to perform functions authorized by a Federal contract or grant.

Any information provided to any person other than those listed above will be aggregated so that no statistic identifies the submitter of the data. Data are also aggregated so that no value is displayed that represents fewer than 3 entities, and no one entity represents 90% of any individual statistic. In addition to ensuring that publicly available information does not contain disaggregated confidential information, other safeguards have been put into place throughout the data collection and analysis processes. Anyone that has access to non-aggregated data must sign a non-disclosure agreement (Appendix D).

The EDC Program has identified several key points where confidential data need to be safeguarded. At each of these points, a procedure has been adopted to protect the confidentiality of the data. The paper forms are received and logged into the EDC administrative database, the data are entered into the EDC responses database, and the paper forms are secured in a locked file cabinet. The room where the file cabinets are stored can only be accessed by NOAA employees with keycard access. Only NWFSC economists have access to the file cabinets.

All digital information from the survey is stored on a secure server. The files on the server include the contact lists for survey participants, copies of letters sent to participants, analyses using raw data, the EDC administrative database, and the survey responses database. The secure server is password protected and only NWFSC economists and senior IT support staff have the ability to access the information.

It is common when a participant is resubmitting a form that they submit their information by fax or mail. The EDC Program has a fax machine that is dedicated to receiving EDC data and is located in the same room with the locked file cabinets.

Email submission of confidential information is discouraged, as it is not considered secure. On the occasion that confidential data are sent via email, EDC staff prints the email, files it in the secure file cabinet, and then permanently deletes the information. Unused or outdated paper records with confidential information are shredded.

3 Description of EDC Forms

The 2009 and 2010 forms are identical except for the year of data coverage. Some revisions were made to the 2011 forms to clarify questions and instructions. There are brief descriptions of the changes between the 2009/2010 and 2011 forms within the form description subsections below. Forms for all years can be found at the EDC Program form archive¹ and the 2011 forms appear in Appendix H.

3.1 Catcher vessel form

Form question types are divided into six categories: contact information, vessel characteristics, capitalized expenditures, quota and permit expenses, annual expenses, annual earnings, and crew share.

Contact information

The first part of the form includes administrative information, including contact information for the owner of the vessel, lessee of the vessel (if applicable), and the person who filled out the form. A sub-question asking for lease dates was added in 2011. This information enables the calculation of revenue associated with each form submission.

Vessel characteristics

This section includes information about the vessel and the fisheries in which it participates. These fields include total fuel use and average fuel use, speed, crew size, and total days at sea by fishery. In the days at sea question, the category “Other West Coast fisheries” was added to the list of fisheries on the 2011 form.

¹www.nwfsc.noaa.gov/research/divisions/fram/economic_data.cfm

Capitalized expenditures

Capitalized expenditures include vessel and on-board equipment, fishing gear, and processing equipment. The total expenditures on vessel and on-board equipment is requested on the form; where total includes all expenditures made on operations in all fisheries, including Alaska. Other capitalized expenditure categories include fishing gear and processing equipment is broken out into expenditures for West Coast fisheries and expenditures that are shared by West Coast fisheries and Alaska. This distinction is an attempt to focus on expenditures pertinent only to West Coast operations, which, in some cases, may be impossible to wholly separate from expenditures for Alaska and other fisheries. Changes were made on the 2011 form to add clarification to the definitions of these expenditures categories.

Quota and permit expenses

This question category asks for the total expenses on purchase and lease of quota shares, quota pounds, limited entry trawl permits and limited entry fixed gear permits. Due to a moratorium on the sale of quota share through 2014, participants are only allowed to lease quota shares. The only change to this section in 2011 was a reformat of the response table.

Annual expenses

This section contains a list of twenty-three expense categories. In this same section the number of pounds of fish landed in Alaska is requested, and will be used to disaggregate the shared expenses between the West Coast and Alaska. There is also a question about whether fish were processed on-board. Few changes were made in 2011: the expense "Commission costs" was appended to "Fishing association costs" and "State licensing and Federal permit fees" was added as a separate category.

Annual earnings

The annual earnings section asks for West Coast at-sea deliveries to motherships, Alaska shoreside landings and at-sea deliveries, and sale and lease of permits, quota shares, and quota pounds. Additionally earnings from salmon disaster relief payments and chartering or research or leasing vessel are requested. This section does not ask for West Coast shoreside landings because this information can be obtained from state fish ticket data.

Crew share

The last section of the form covers the crew share system used on the vessel while participating in the groundfish fishery. This section uses checkboxes for participants to indicate which expenses are deducted from gross revenues before calculating crew shares. "Buy back fees" were added to the list of expenses that could be deducted from total revenue before calculating the crew

share. The last page of the form asks about how often the vessel owner serves as captain. This section also includes two questions that ask about the percentages that are paid to crew, captain, and vessel. The first question regards trips when the owner serves as captain and the second is when there is a hired captain on-board. Two “other” category fields were added to the crew share percentage categories in 2011, to account for potential items that were not previously listed.

3.2 Catcher-processor form

Contact information

Like the catcher vessel forms, the catcher-processor form begins with a series of questions about the vessel characteristics, permit information, and contact information for the individual completing the report (and lessee, where applicable), and the same questions regarding the vessel valuation as the catcher vessel survey.

Vessel characteristics

The form asks for fuel use for fishing, processing and steaming in the West Coast whiting fishery and for fuel use steaming between the West Coast and Alaska, and proceeds to query about types of fuel and Days at Sea for various activities relating to the whiting and Alaska fisheries. Participants are asked to provide the number of one-way trips to Alaska, as well as the average number of processing and non-processing crew members.

Capitalized expenditures

This section of the form relates to capitalized expenditures, both shared with Alaska and for the West Coast whiting fishery only. These categories mirror those on the catcher vessel form and relate to new and used vessel and on-board equipment, processing equipment, and fishing gear.

Permit expenses

In the next section, participants provide the total cost of permit expenses, which for the catcher-processor forms includes a section for the purchase and lease of co-op shares.

Annual expenses

The next section collects annual expenses. This includes expenses on crew travel, observer fees, fuel and lubrication, food, freight to the vessel on supplies, communications, offloading, and

other supplies that includes items such as linens, clothing, or cleaning supplies. There are also categories for repair and maintenance on fishing gear both shared and for West Coast whiting only, processing equipment repair and maintenance, vessel and on-board equipment repair and maintenance. The form asks for all expenses on insurance premium payments, moorage, lease or bareboat charter, and depreciation. In addition to basic vessel operating costs, this form ask for co-op dues and membership fees, Marine Stewardship Council fees, additives, packing materials, and on-board cargo and product insurance. This section also includes crew expenses, differentiated between processing and non-processing crew.

Offload port

This portion of the form requests the percentage of total off-load value by port, where port locations include Seattle, Blaine or Bellingham, Port Angeles, Westport or Hoquiam, Astoria, Coos Bay, At sea (tramper), and Other.

Revenue

This section is designed for the participant to provide the round weight of all fish processed in all fisheries, which includes Alaska and other fisheries outside the West Coast. Values for revenue resulting from the sale or lease of permits are also requested in this section, along with revenue resulting from a lease or bareboat charter of the vessel. Lastly, the catcher-processor survey asks for revenue information resulting from the sale or lease of quota shares and pounds.

3.3 Mothership form

Contact information

The mothership forms begins with a series of questions about the vessel characteristics, permit information, and contact information for the individual completing the report and lessee, where applicable, and some basic questions regarding the vessel valuation.

Vessel characteristics

Mothership forms ask for fuel use for processing and steaming in the West Coast whiting fishery and for fuel use steaming between the West Coast and Alaska, and proceed to query about types of fuel and Days at Sea for various activities relating to the whiting and Alaska fisheries. Participants are asked to provide the number of one-way trips to Alaska, as well as the average number of processing and non-processing crew members.

Capitalized expenditures

The second section of the form relates to capitalized expenditures, both shared with Alaska and for the West Coast whiting fishery only. These categories mirror those on the catcher vessel form and relate to new and used vessel and on-board equipment, processing equipment, and fishing gear.

Permit expenses

In this section, participants provide the total cost of permit expenses.

Annual expenses

The next section collects annual expenses. This includes expenses on crew travel, observer fees, fuel and lubrication, food, freight to the vessel on supplies, communications, offloading, and other supplies that includes items such as linens, clothing, or cleaning supplies. There are also categories for repair and maintenance on fishing gear both shared and for West Coast whiting only, processing equipment repair and maintenance, vessel and on-board equipment repair and maintenance. The form asks for all expenses on insurance premium payments, moorage, lease or bareboat charter, and depreciation. In addition to basic vessel operating costs, the mothership form asks for co-op dues and membership fees, additives, packing materials, and on-board cargo and product insurance. This form also requests crew expenses differentiated between processing and non-processing crew.

Fish purchases

The mothership form asks for the weight and costs for fish purchased on the West Coast, separated into a category for whiting and a category for all other species.

Offload port

Like the catcher-processor form, the mothership form asks for the percentage of total off-load value by port, where port locations include Seattle, Blaine or Bellingham, Port Angeles, Westport/Hoquiam, Astoria, Coos Bay, At sea (tramper), and Other.

Revenue

The form requests the round weight of all fish processed in all fisheries, which includes Alaska and other fisheries outside the West Coast. This question provides information that can be used to allocate costs between the West Coast and Alaska activities without requiring more detail about these vessels' Alaska operations. Values for revenue resulting from the sale or lease of permits

are also requested in this section, along with revenue resulting from a lease or bareboat charter of the vessel.

3.4 First receiver and shorebased processor form

Both first receivers and shorebased processors fill out the same type of form.

Contact information and facility appraisal value

The first portion of the first receiver and shorebased processor forms asks for state identification numbers, as well as general contact information about the plant and the person filling out the form. This includes questions about the appraised value of the facility.

Capitalized expenditures on buildings and machinery

The second section of the first receiver form covers capitalized expenditures on buildings and machinery.

Employees

This section is followed by a section about employees and payroll. Participants provide the number of production workers and total hours worked the week including the twelfth day during each month to provide a general idea of seasonal shifts in labor. Production workers include workers involved in fabricating, processing, assembling, inspecting, receiving, packing, warehousing, shipping, maintenance, repair, janitorial, product development, or transporting product on-site, as well as the line-supervisors. A subsequent question asks for the number and hours of all other non-production employees, including other supervisors, and individuals involved in sales, advertising, credit, collection, installation, cafeteria, record-keeping, clerical, and routine office functions, guard services, executive, purchasing, finance, and legal. The final question in this section asks for labor expenses for both employee categories, including wages, bonuses, benefits, payroll taxes, and employment insurance.

Expenses

The next section asks for selected expenses and depreciation, specifically quota expenses, utilities, rental or lease payments, repair and maintenance costs, depreciation, custom processing fees, and other expenses. Other expenses include shoreside monitoring costs, offloading expenses, production supplies, cleaning and custodial supplies, packing materials, freight costs, non-fish additives, off-site product freezing and storage, insurance payments, property and excise taxes,

and licensing fees. In the 2011 survey, the final portion of this section asks for weight and cost of groundfish purchases by landing origin, including the West Coast, Alaska, and Canada.

Fish purchased and received

The fish received portion of the survey asks for weight of fish paid and not paid for, and the gross cost of fish paid for from vessel sources, including limited entry trawl, limited entry fixed gear, other vessels, and then non-vessel sources. This section is subdivided into more than twenty species categories, adding categories for arrowtooth flounder, pacific sanddab, and sturgeon on the 2011 forms in response to participant suggestion on the 2009 and 2010 forms. The 2011 forms also add a column asking for total weight not paid for transfers from outside this facility, to attempt to capture what some participants described as a high volume of fish transferred between different facilities belonging to a single parent company.

Earnings

The annual earnings portion asks for total weight and total value of fish production by fish type and product type, including fresh, frozen, unprocessed, and other. The final page of the form asks for other earnings, including custom processing revenue, offloading earnings, and sale and lease of quota.

4 QA/QC Process

The EDC Program has implemented several processes in order to ensure high quality data. These processes include double-key entry of all data, business checks to ensure consistency of data within a form, and business checks to ensure that data provided on forms are consistent with external data. Each process is summarized separately below. Figure 4.1 describes the full set of processes, including how discrepancies are resolved.

4.1 Double-key entry

In order to limit the number of errors introduced by data entry mistakes, data from each paper form are double-key entered by two different EDC staff members. For the 2009-2011 data collections, data were entered into fillable pdfs (Figure 4.1). Beginning in 2012, the data are were entered into a web form. Once the data have been entered twice, an economist confirms that there are no mismatched entries and corrects any miskeys that may have occurred. The data are then loaded into a database where both copies of the data are stored. A program then runs additional checks to ensure that there are no mismatched entries, and does a few simple cleaning steps, such as converting all text to uppercase, standardizing address formats, and removing non-alphanumeric characters. The phone and fax fields are similarly standardized. If any entries still do not match, a flag is created, and the mismatched data will not be available to the economist until the miskey has been resolved. Any changes to the data are “journalled” and the database tracks which user made the changes.

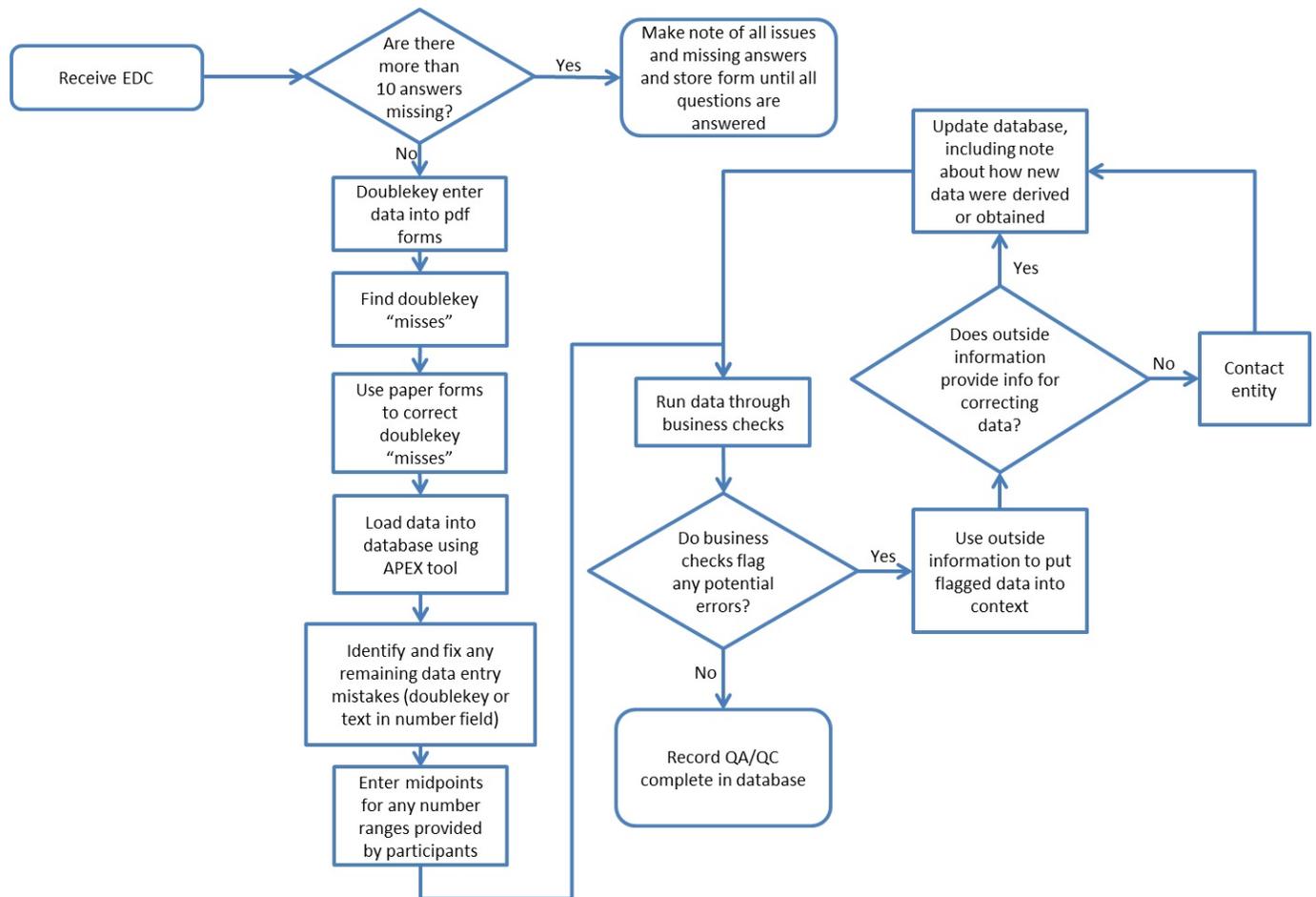


Figure 4.1: Data QA/QC system.

4.2 Data validation

The EDC Program developed a set of business checks to look for potential inaccuracies in the information provided on the forms. These checks are designed to both identify inconsistencies with the information provided within a specific form, and to check for inconsistencies with external data.

The data checks can be separated into two different categories. There are what are referred to as “true errors” versus “potential problems”. “True errors” refer to a set of data points that when combined together cannot be correct; whereas “potential problems” are a data point or set of data points that seem unlikely to be correct, but could be correct. One example of a “true error” is a when a participant provides revenue from fishing in Alaska greater than zero, but also records that they spent zero days fishing in Alaska. It is impossible that both data points are true and therefore this is classified as a “true error”. An example of a “potential problem” is when the value recorded for a capitalized investment on fishing gear is exactly the same as the value recorded for expenses on fishing gear. In this case, it is possible that they made two separate outlays of exactly the same value, but it is more likely that they recorded the same outlay twice. In both cases, we will contact the participant to obtain additional information.

The set of business checks continues to expand and evolve as the EDC Program matures. These continued developments are a result of increased understanding of the EDC data and external data sources, and additional time to implement validation checks. One important way the checks will continue to improve is through the collection of additional years of data. More years of data provide the economists with a better understanding of “typical” responses. Similarly, the economists have a clearer understanding of common mistakes and are better able to both identify the issues and work with participants to correct the issues. The business checks have also improved over time with the incorporation of outside data such as Permit Office data, AKFIN data, and fish ticket data. As our capabilities to access and interpret additional data increase, these data will also be incorporated into the checks.

4.2.1 External data

External data sources are an essential source of information for conducting the business checks. The four most common data sources used for validation are state fish ticket data obtained from the Pacific Fisheries Information Network (PacFIN), At-Sea Hake Observer Program (A-SHOP) data obtained from PacFIN, Permit Office data obtained from PacFIN and directly from the Permit Office, and Alaska Commercial Fisheries Entry Commission (CFEC) obtained from the Alaska Fisheries Information Network (AKFIN). These data provide a larger context to the information provided on the forms and allow for a more productive conversation when contacting survey participants.

State fish ticket data, available through PacFIN, are used to validate information about fishery participation. The data provide the weights and ex-vessel revenue by species and delivery location. For all landings, both the entity that purchased the fish and the vessel that landed the fish are

identified on a daily level. A complete description of how fish ticket data are combined with EDC data can be found in section 5.1.

At-sea deliveries are not recorded in the state fish ticket records. This information is obtained from the A-SHOP. This data has a similar format to the state fish ticket data, with daily information about at-sea deliveries by species and includes both the catcher vessel that caught the fish and the mothership that purchased the fish, or the catcher-processor that caught and processed the fish. A complete description of how A-SHOP data are combined with EDC data can be found in section 5.1.

The Permit Office maintains a historical database of the owner and holder of every limited entry permit. The vessel owner can be different from the owner of the permit, if the vessel owner is leasing the permit from another company. Additionally, starting in 2011, the Permit Office also maintains a record of all holders of first receiver site licenses. These licenses are not transferable and are entity and location specific.

AKFIN provides an annual list of all catcher vessels identified by the EDC Program that fished in Alaska during that year. This list is created by combining the Coast Guard vessel identification numbers provided by the EDC Program with Alaska commercial fishing vessel licenses information provided by the CFEC.

4.2.2 Catcher vessel form business checks

The internal business checks for catcher vessel forms are relatively simple and can be predominantly classified as checks for “true errors”. A full list of all of the business checks performed can be found in Appendix E. Most of the checks are designed to ensure that a complete set of information about each fishery in which the entity participated is recorded on the form.

The set of business checks regarding Alaska operations are the most extensive and include the days at sea fishing in Alaska, the days steaming between the West Coast and Alaska, the number of trips to and from Alaska, the total round weight of landings and at-sea deliveries, and the total revenue from the landings and deliveries. A check is performed to ensure that if any one question implies that the vessel participated in an Alaska fishery, then the respondent provides all of the other relevant Alaska operational information.

A similar check is performed for other fishery activities, though the number of checks is smaller. The checks ensure that if a vessel participated in a particular fishery, then they must provide all of the following information: the average fishing speed, the average daily fuel use, the average crew size, and the total days at sea spent in the fishery.

In a similar fashion, if a participant indicates that they did not participate in a particular fishery, a flag is generated if a different response conflicts with that answer. The most common case is when a participant indicates that they did not participate in any Alaska fisheries, but they recorded a capitalized expenditure for equipment that was shared between the West Coast and Alaska.

Additional consistency checks are performed using external data; primarily permit data, fish ticket data, at-sea deliveries information, and information about whether the vessel fished in Alaska.

These external checks are primarily used to provide context to the responses provided on the forms. For example, a form may have conflicting information about whether the vessel fished in Alaska. In this case, Alaska fish ticket data can be used to determine whether the vessel participated in that fishery.

The 2009 and 2010 data collection forms asked whether the vessel harvested fish. If the vessel did not harvest fish during the survey fiscal year, then they were only required to answer a small subset of the questions on the forms. If a vessel respondent indicated the vessel did harvest fish, this response was verified using state fish ticket, At-Sea Hake Observer Program data, and Alaska fish ticket data.

4.2.3 Catcher-processor form business checks

The business checks for the catcher-processor forms are less extensive than the catcher vessel checks. This is because there are many fewer catcher-processor forms than catcher vessel forms, which means that many errors can be caught visually rather than using a computer program.

The catcher-processor business checks have similar checks for consistency across questions about participation in Alaska fisheries and other fisheries and check that responses to capitalized expenditure questions are consistent with other responses on the forms.

There are two questions specific to the at-sea forms. The first checks that for every product type listed on the form, if a weight of production is listed then a value for that product type is listed and vice versa. Additionally, there is a check to ensure that the offload percentages by port sum to 100%.

4.2.4 Mothership form business checks

The business checks for the mothership forms are nearly identical to the catcher-processor checks. One additional check is added to check that the value of production is greater than the cost of purchases of fish. Values that are flagged by this field are considered a “potential problem” and not “true errors”.

4.2.5 First receiver and shorebased processor checks

Each data element reported on the catcher vessel, mothership and catcher-processor forms is relatively simple and discrete. This means that once an issue is flagged by the business rule checks, it is relatively straightforward for the economist to identify the problem and contact the participant to resolve the issue. The first receiver and shorebased processor forms have a more complex data structure and therefore require a more detailed review than what is required

for the other forms. Another complication with first receiver and shorebased processor data is the diversity of types of operations, as these businesses range from catcher vessel owners who rent a hoist at the end of a pier to offload their own fish, to businesses that own multiple large processing facilities. The diversity makes it more difficult to distinguish “true errors” from “potential problems”.

Checks listed in Appendix E identify potential problems, but additional automated analysis is required in order to identify the sources of the problems. For example, there is a business check to determine whether the total weight of production of a particular species is less than or equal to the total weight of purchase of that species. This provides some information, but often when combined with fish ticket data and the cost of purchase, and value of production, it can become clear whether the issue was a result of an error in the production weight or the purchase weight.

Another more involved check is the analysis of markups, prices, and product recovery rates. A markup is defined as the total value of production of a particular species group divided by the total cost of the purchase of the species group. The product recovery rate is defined as the total weight of production divided by the total weight of purchases of the species group. Besides being of interest for their economic content or information, they can also provide information about potential errors. However, the EDC analysis must use a more ad-hoc approach to determining which values might indicate a problem.

In addition to the complexity of the data provided on the forms, one company may submit forms for multiple facilities. A typical case is a company that has multiple buying locations and/or multiple processing locations. If a company does not track their production by location, the individual facility forms must be combined in order to understand the operations of the company.

To try to address the issues listed above, a set of tables is generated that combine the fish purchase and production information by company, and incorporates state fish ticket data. These tables provide total purchases, total costs, total production, and total revenue by species group. The code then calculates the average price per pound, revenue per pound, markup, and recovery rate by species group. This information, combined with fish ticket data provides a more complete picture of the company’s operations and allows the economist to identify potential issues with the data. These tables also allow the economist to discuss the issues with the participant and to assist with identifying potential causes of the issues.

4.3 Resolving data validation flags

Once the business checks have been run, the EDC staff attempt to investigate and resolve all issues that were flagged (Figure 4.1). The first step is to determine if an issue can be resolved by looking at the paper submission. Issues can often be resolved by examining additional notes provided by a participant on the form or occasionally, further inspection of a response can reveal a different understanding of the original response. As a second step, EDC staff will use other available data, such as previous phone calls with participants and external data sources to provide context to the information.

If the above data steps do not resolve a data flag, the EDC staff will call the participant to resolve the issue. All conversations associated with each form are documented in an online database. Table 4.1 shows a representative example of a typical communication with a participant with potential form issues. On average, each form requires about three communications to complete a form, but the range is between 0 and 14 communications (Table 4.2). Depending on the complexity of the question, it could take several phone calls to resolve a particular issue. Most issues can be resolved with one or two phone calls, but there are some cases where much more effort is required as shown in Figure 4.2. If there are only a few issues that need to be resolved, the economist will collect the information over the phone. If the issues with the form are extensive, the economist will request that the participant resubmit the form via mail or fax. The latter case is most common for the first receiver and shorebased processor form where the data are more complex.

Once the new information has been obtained, the data are entered into the database and a comment is recorded explaining how the data point was resolved. The business checks are then rerun to double-check that the original issue has been resolved and to check that no new flags are created due to any changes in the data. There is a dedicated comment field for each data element in the database.

Data will be modified in the database without communicating with the participant if the participant provided a range of values. In this case, EDC staff enters the midpoint value. The most common case of this is when participants enter ranges of values when providing the average daily fuel use and average crew size by fishery. The EDC staff will also modify a response if it is known that the value must be zero. This most often occurred when a participant entered the same value for an expense made on equipment used on the West Coast and equipment shared between the West Coast and Alaska. If the vessel did not fish in Alaska, then it was assumed that the shared value should be zero.

Table 4.2 gives the quintile breakdown of communications per form. Approximately half the forms require at least two phone calls, with some forms requiring much more attention, as demonstrated in the communication record above.

Table 4.1: Example of communication record with a participant. Personal identifying information was removed and dates were changed to protect confidential information.

	Date	Comments
1	[05/06/2011 02:24 PM]	I called and left a message for Julie, explaining that there are missing responses on her form and asking her to call me back.
2	[05/07/2011 12:52 PM]	Julie called me back and explained that she didn't know that she needed to answer all of the questions. We discussed the missing fields and she told me that she would fax me the responses to the remaining questions.
3	[05/27/2011 10:02 AM]	I received the fax with the missing questions and the form is now complete.
4	[06/21/2011 11:50 AM]	Production weight of crab is four times the purchase weight of crab
5	[07/01/2011 03:15 PM]	I called Julie and explained that we need her to take another look at the crab purchase and production weights, she will call back with the value
6	[09/25/2011 01:50 PM]	Julie called back and explained that they had not recorded purchases of fish from Other Sources on their form, she gave me the purchase weight and cost.
7	[11/06/2011 08:47 AM]	I recorded the purchase weight and cost and entered the new values into the database, I reran the data checks and there are no flags.

Table 4.2: Number of communications with participants. Summary statistics of the number of communications with each participant of each form, including emails, phone calls, and voicemails per form

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
0	1	3	3	4	14

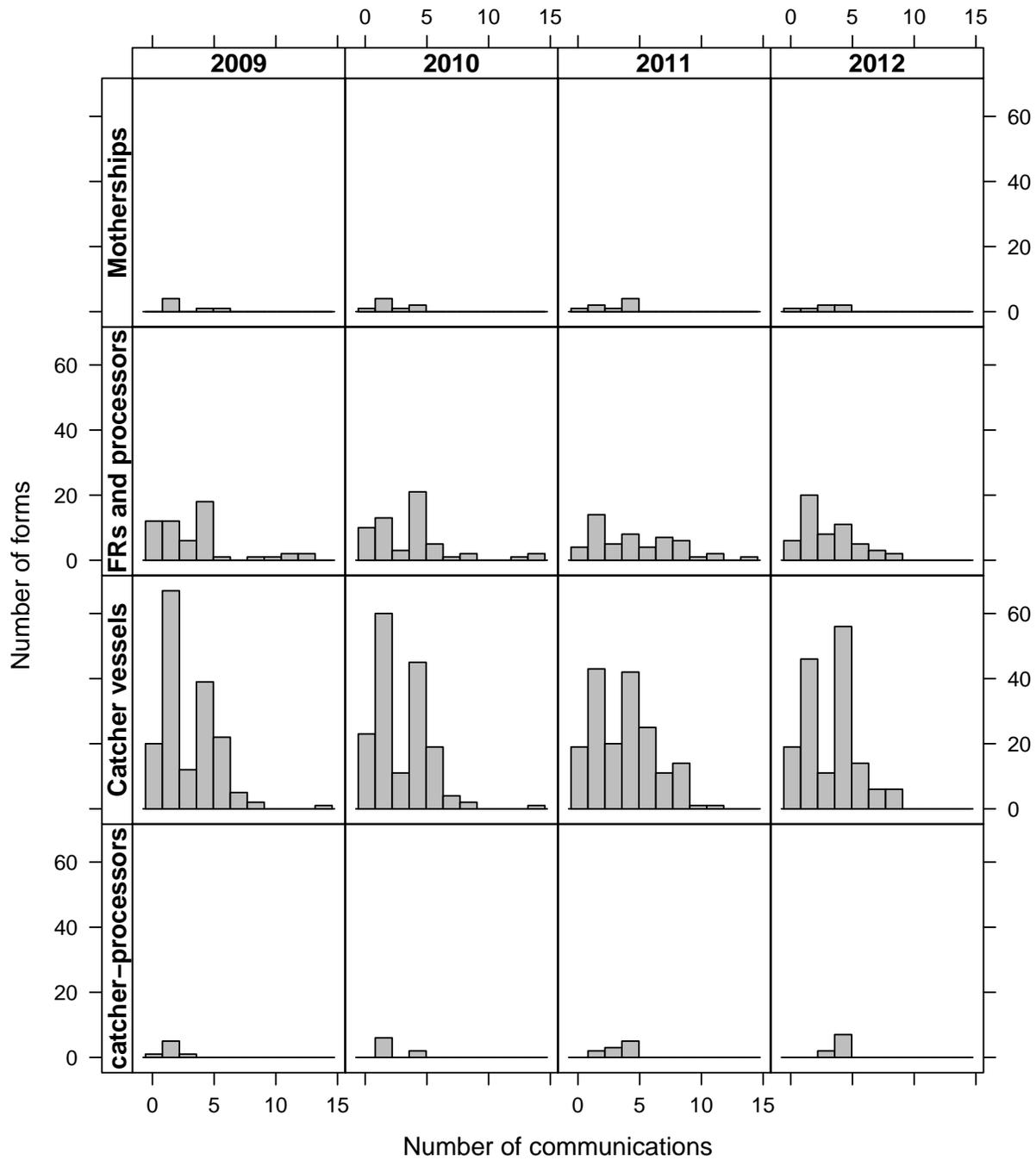


Figure 4.2: Frequency distribution of the number of communications required per form.

As shown in Figure 5.2, buyers typically require the most attention per form, but the number of communications required for both the catcher vessel and first receiver and shorebased processor groups declined from the baseline years to 2011.

4.4 Outlier analysis

The EDC Program used basic single-variable outlier detection methods on the 2009 and 2010 baseline data to identify possible recording errors by participants and in EDC data-entry. After computing a standardized score for each numerical observation, scores with an absolute value greater than 2.5 were considered potential outliers. The list generated from this analysis included 103 observations, and each of these values was hand-checked against the participant's paper form to ensure no error had occurred during the double-key data entry process. No such errors were found. Attempts were made to contact participants regarding extreme values as a part of the QA/QC process, some of the extreme values were explained as the result of unusual circumstances and thus left in the database, and others were the result of a recording error on the part of the participant that was subsequently corrected. Time constraints did not allow for this analysis for the 2011 data, this analysis will be updated for 2011 and future years.

5 Data Processing

5.1 Combining landings and delivery data with EDC data

In order to minimize the burden of completing the EDC forms, participants are not asked to provide information that can be obtained from other sources. This information is primarily obtained from state fish tickets or A-SHOP data.

5.1.1 Combining fish tickets and A-SHOP data - catcher vessels

A wide variety of information is available on the state fish tickets. The fields most commonly used by the EDC Program include landed weight, round weight, revenue, species, port, delivery date, fleet, and year. For a complete description of the fish ticket database at PacFIN, see the `vdrfd` table at pacfin.psmfc.org/pacfin_pub/table_cols.php. Similar information is available in the A-SHOP data at PacFIN, see the `npac4900` table at the same address.

One main difference between the two data sets, for EDC purposes, is that only the fish tickets contain revenue information. The revenue in the A-SHOP data is estimated based on shoreside deliveries. Instead of using that data, for EDC analyses price for each vessel-year is calculated by taking the at-sea delivery revenue from the EDC form and dividing it by the delivery weight in the A-SHOP data. This price is then applied to all deliveries for that vessel in that year. We currently use the mothership revenue to calculate the price, unless it is not available in which case the revenue from the catcher vessel is used.

The fish ticket data are pulled by the fiscal year provided on the form. In 2009 and 2010, the EDC form did not ask for the year in which the fiscal year began, only the month and year. For these cases, the year of the fiscal year was assumed to be the same year as the EDC year, except in special cases when the entity provided the year, even though there was not space to fill it in; or when subsequent data collections, starting with the 2011 data collection, indicated that the assumption was incorrect. The fiscal year end is calculated as the fiscal start date plus one year minus one day.

A check is performed to ensure that one fish ticket is never assigned to more than one form. This occurs primarily when there is a mid-year sale of a vessel or if there are multiple operators of the vessel. In these cases, additional information from the survey participants or permit office

records are used to adjust the fiscal year begin and end dates to pull the appropriate fish ticket records.

The same process is used for assigning A-SHOP delivery data to EDC forms, except for the treatment of revenue discussed above.

5.1.2 Combining fish tickets - first receivers and shorebased processors

A similar system is used for combining state fish tickets with the first receiver and shorebased processors forms, however it is slightly more complicated than the catcher vessel process because of the nature of the operations. In order to purchase fish from a vessel, a first receiver/shorebased processor must have a fish buying license. Depending on the state, the entity may need an individual license for each location where the fish are purchased. In contrast, a first receiver site license is required for every location and unique company purchasing fish. This results in several different types of operations that must be handled uniquely.

1. Entities with one buyer ID, one location, and one FRSL;
2. Entities with one buyer ID, multiple locations, and one FRSL;
3. Entities with one buyer ID, multiple locations, and a FRSL for each location;
4. Entities with one buyer ID, multiple locations, and a FRSL for only some of the locations;
5. Entities with multiple buyer IDs, multiple locations, and multiple FRSL;

For cases 1 & 2, all fish ticket records associated with that buyer ID are also associated with the corresponding EDC form. For case 3, the fish ticket records are pulled by buyer ID and port code and as a result, all fish ticket records associated with that buyer ID are associated with an EDC form. Case 4 is the most complicated type of entity, in this case, the fish tickets associated with the buyer ID, and port related to a FRSL, are paired to a form, but in cases where fish are purchased with the buyer ID in a port without a FRSL, the ticket is not paired to a form. Finally, for case 5, the buyer IDs are treated effectively as separate companies when matching the fish ticket data to the EDC forms.

5.2 Standardizing NA and zero responses

As mentioned previously in this report, all EDC forms instruct participants to write NA in each answer box that is “Not Applicable” to their operation. In practice, the NAs in the data may represent zeroes, not applicable, or information that is not known. For analysis purposes, it is important to distinguish between these types of responses to ensure that calculations accurately reflect the data provided by all participants. For example, a survey response that indicated expenses on travel as NA might not have incurred any crew travel expenses that year, in which case the expense would be zero, and the fleet average expense on crew travel would be appropriately lowered. However if that participant wrote “NA” in the box because the information on that expense was not available, the value is unknown and should be excluded from calculations.

Despite efforts to contact participants in order to fill in missing information or clarify data on the forms, there are cases where either the participant is unable to provide the information or the participant cannot be reached. In these cases, it is necessary to develop a system to ensure null values are treated appropriately. As a result, the EDC Program has implemented a series of rules that determine for each answer type whether to take one of four actions:

1. Leave a zero as a zero.
2. Convert a zero to NA.
3. Leave an NA as NA.
4. Convert an NA to zero.

Validation checks were developed to determine which values are true zeroes or NAs and which values should be converted. There were three primary data sources used to perform these validation checks; state fish ticket data, information derived from Alaska Commercial Fisheries Entry Commission data provided by AKFIN, and EDC data.

The validation rules are applied after all other QA/QC processes have been completed. The determination about how to handle a particular NA or zero depends on the question type, additional information provided on the form, and outside information. For each variable, the value entered into the database depends on whether the validation check is true or false, and whether the value entered on the form is a NA or a zero. The definitions of the validation checks and descriptions of each of the variables can be found in Appendix F.

6 Previous Data Collections

6.1 Cost-Earnings voluntary data collection

Voluntary Cost-Earnings data has been collected by the economists at the Northwest Fisheries Science Center (NWFSC) since 2005, when data were collected for fishing activities in 2003 and 2004. This voluntary survey and subsequent voluntary surveys were jointly conducted by the NWFSC and Pacific States Marine Fisheries Commission. The voluntary cost-earnings surveys always collect two years of data per form¹. In Table 6.1, surveys marked as “EDC” are now conducted as part of the mandatory EDC Program.

A dataset is being constructed that compiles all of the data collected through the voluntary cost-earnings surveys and the mandatory EDC survey. The data set will identify the survey instrument, the year of collection, the survey population, and the question as presented on the form. Many variables have been consistently collected since the initial collection; these variables will be named consistently through time. For variables that have changed over time, new variable names will be developed as needed. One major change between the voluntary cost-earnings survey and the mandatory EDC Program is the way expenses are collected. In the Cost-Earnings forms, the expenses are requested for all activities (West Coast, Alaska, and other), while on the EDC forms, some expenses are requested specifically for West Coast fisheries and some for all fisheries. These distinctions will be clearly defined in the complete dataset.

¹Lian, C.E. 2010. West Coast limited entry groundfish trawl cost earnings survey protocols and results for 2004. U.S. Department of Commerce, NOAA Technical Memorandum NMFS-NWFSC-107, 35 p. and Lian, C.E. 2012. West Coast limited entry groundfish cost earnings survey: Protocol and results for 2008. U.S. Department of Commerce, NOAA Technical Memorandum NMFS-NWFSC-121, 62 p

Table 6.1: Previous cost-earnings surveys. List of cost-earnings surveys of West Coast commercial fishing vessels and processors that have been collected (2003-2011).

	2003	2004	2005	2006	2007	2008	2009	2010	2011	EDC
Limited Entry Trawl	X	X			X	X	X	X	X	X
Limited Entry Fixed Gear	X	X			X	X		X	X	
Open Access Groundfish	X	X			X	X			X	
Salmon Troller			X	X		X	X		X	
Salmon Netter						X	X		X	
Crab and Shrimp			X	X		X	X		X	
Mothership Catcher Vessels							X	X	X	X
Catcher Processor							X	X	X	X
Mothership							X	X	X	X
First Receiver and Shorebased Processor							X	X	X	X

Appendix A EDC Fact Sheet

West Coast Groundfish Trawl Catch Share Program

2012



NOAA FISHERIES SERVICE

For more details on the
Catch Share Program,
call 206-526-6140
or go to our website:

[www.nwr.noaa.gov/
Groundfish-Halibut/
Groundfish-Fishery-
Management/Trawl-
Program/index.cfm](http://www.nwr.noaa.gov/Groundfish-Halibut/Groundfish-Fishery-Management/Trawl-Program/index.cfm)

For the full groundfish
regulations, see the Code
of Federal Regulations
(CFR) at 50 CFR part 660,
subparts C-G.



Mandatory Economic Data Collection (EDC)

Overview

In January 2011, the West Coast groundfish trawl fishery transitioned to a new, innovative management approach known as a Catch Share Program. The Catch Share Program consists of an individual fishing quota (IFQ) program for the shorebased trawl fleet and cooperative programs for the at-sea mothership and catcher/processor trawl fleets.

As part of this new program, participants in the rationalized fishery are required to provide economic data. The following information provides an overview of the economic data collection (EDC) requirements and seeks to answer some commonly asked questions. For specific guidance, the regulations detailing the EDC program (50 CFR 660.114) are available at: www.nwfsc.noaa.gov/edc

Frequently Asked Questions

Why is there an economic data collection program?

The economic benefits of the West Coast groundfish trawl fishery and their distribution will likely change under trawl rationalization. To monitor these changes, the rationalization program includes a mandatory economic data collection program. Using data collected from industry members, the EDC program will monitor whether the goals of the Catch Share Program have been met. The EDC program will also help meet the requirements of the Magnuson-Stevens Act for catch share evaluation.

What types of data are collected?

In addition to contact information, the EDC program will collect vessel/plant characteristics, capitalized investments, annual expenses, annual earnings, crew/labor payments, and quota and permit expenses that will provide a strong foundation for managers to evaluate the Catch Share Program.

What important dates should I be aware of?

May 2012: Fiscal year 2011 EDC forms are mailed to participants.

September 1, 2012: Fiscal year 2011 EDC forms are due.

West Coast Groundfish Trawl Catch Share Program

Who is required to submit EDC forms?

Fishery Participant	Who is required to submit EDC forms?
Limited Entry Trawl Catcher Vessels	All owners, lessees, and charterers of a catcher vessel registered to a limited entry trawl endorsed permit at any time in 2011 and beyond.
Motherships	All owners, lessees, and charterers of a mothership vessel registered to a mothership permit at any time in 2011 and beyond.
Catcher/Processors	All owners, lessees, and charterers of a catcher processor vessel registered to a catcher/processor-endorsed limited entry trawl permit at any time in 2011 and beyond.
First Receivers	All owners of a first receiver site license in 2011 and beyond.
Shorebased Processors	All owners and lessees of a shorebased processor that received round or headed-and-gutted IFQ groundfish species or whiting from a first receiver in 2011 and beyond.

What happens to the data once submitted?

Data are used by Northwest Fisheries Science Center (NWFSC) economists to evaluate the Catch Share Program. Aggregated data and analyses are compiled into a report and presented to the Pacific Fishery Management Council. Future reports will be available online at: www.nwr.noaa.gov

Who has access to this data? Is it confidential?

The data are studied by NWFSC economists or their contractors. Everyone who works with this data is required to sign a confidentiality agreement. Responses to the EDC forms are confidential under the Magnuson-Stevens Act and NOAA Administrative Order 216-100.

What happens if I don't submit the economic data collection form?

Economic data collection is mandatory under the Catch Share Program, and thus participation in the EDC program is mandatory under the regulation 50 CFR 660.114. If you do not submit the required EDC form, it may delay the completion of administrative actions such as permit renewal, vessel registration, license issuance, and quota transfers.

Where can I get an economic data collection form?

Forms are available to print at: www.nwfsc.noaa.gov/edc

Under the EDC program, NOAA Fisheries mails EDC forms in May of each year to individuals who, according to available records, are required to complete an EDC form. If you do not receive a form by mail, it is still your responsibility to complete and return it by the deadline.

Where can I learn more about the West Coast Catch Share Program?

NOAA Fisheries Northwest Region's Catch Share website: www.nwr.noaa.gov/Groundfish-Halibut/Groundfish-Fishery-Management/Trawl-Program/index.cfm

Who should I contact if I have other questions?

Erin Steiner, Economic Data Collection Program (FRAM Division), Northwest Fisheries Science Center

Mail Address: 2725 Montlake Boulevard East, Seattle, Washington 98112

Phone: (866) 791-3726

E-mail: NWFSC.EDC@noaa.gov

Appendix B Excerpts of Regulations Relevant to EDC Program

For reference, excerpts from 50 CFR PART 660, SUBPARTS C - G FEDERAL PACIFIC COAST GROUND FISH REGULATIONS FOR COMMERCIAL AND RECREATIONAL FISHING 3-200 NAUTICAL MILES OFF WASHINGTON, OREGON, AND CALIFORNIA regulations are appended here. These are the current regulations, as of May 1, 2012.

(D) Limited entry permits with sablefish endorsements, as described at paragraph (b)(3)(iv) of this section, will not be renewed until SFD has received complete documentation of permit ownership as required under paragraph (b)(3)(iv)(C)(4) of this section.

(E) Limited entry permits with an MS/CV endorsement or an MS permit, will not be renewed until SFD has received complete documentation of permit ownership as required under §660.150(g) and §660.150(f) of subpart D, respectively.

(F) A limited entry permit will not be renewed until a complete economic data collection form is submitted as required under § 660.113(b), (c) and (d), subpart D. The permit renewal will be marked incomplete until the required information is submitted. {added at 75 FR 78334, 12/15/2010}

(ii) Combining limited entry “A” permits. Two or more limited entry permits with “A” gear endorsements for the same type of limited entry gear may be combined and reissued as a single permit with a larger size endorsement as described in paragraph (b)(3)(iii) of this section.

(A) Sablefish-endorsed permit. With respect to limited entry permits endorsed for longline and pot (trap) gear, a sablefish endorsement will be issued for the new permit only if all of the permits being combined have sablefish endorsements. If two or more permits with sablefish endorsements are combined, the new permit will receive the same tier assignment as the tier with the largest cumulative landings limit of the permits being combined.

(B) MS/CV-endorsed permit. When an MS/CV-endorsed permit is combined with another MS/CV-endorsed permit or with another limited entry trawl permit with no MS/CV or C/P endorsement, the resulting permit will be MS/CV-endorsed with the associated CHA as specified at §660.150(g)(2)(iv) and (v). If an MS/CV-endorsed permit is combined with a C/P-endorsed permit, the MS/CV endorsement and CHA will not be reissued on the combined permit. {revised at 76 FR 74725, 12/1/2011}

(C) C/P-endorsed permit. A C/P-endorsed permit that is combined with a limited entry trawl permit that is not C/P-endorsed will result in a single C/P-endorsed permit with a larger size endorsement. An MS/CV endorsement on one of the permits being combined will not be reissued on the resulting permit.

(iii) Stacking limited entry permits. “Stacking” limited entry permits, as defined at §660.11, subpart C, refers to the practice of registering more than one sablefish-endorsed permit for use with a single vessel. Only limited entry permits with sablefish endorsements may be stacked. Up to 3 limited entry permits with sablefish endorsements may be registered for use with a single vessel during the primary sablefish season described at §660.231, subpart E. Privileges, responsibilities, and restrictions associated with stacking permits to fish in the primary sablefish fishery are described at §660.231, subpart E and at paragraph (b)(3)(iv) of this section.

landings reported on state landing receipts. As required at §660.12(b), any person landing sablefish must retain on board the vessel from which sablefish is landed, and provide to an authorized officer upon request, copies of any and all reports of sablefish landings from the primary season containing all data, and in the exact manner, required by the applicable state law throughout the primary sablefish season during which a landing occurred and for 15 days thereafter. {revised at 76 FR 74725, 12/1/2011}

(D) Change in MS/CV endorsement registration. The requirements for a change in MS/CV endorsement registration between limited entry trawl permits are specified at §660.150(g)(2)(iv). {added at 76 FR 74725, 12/1/2011}

(v) Changes in vessel registration of limited entry permits and gear endorsements

(A) General. A permit may not be used with any vessel other than the vessel registered to that permit. For purposes of this section, a permit change in vessel registration occurs when, through SFD, a permit owner registers a limited entry permit for use with a new vessel. Permit change in vessel registration applications must be submitted to SFD with the appropriate documentation described at paragraph (b)(4)(vii) of this section. Upon receipt of a complete application, and following review and approval of the application, the SFD will reissue the permit registered to the new vessel. Applications to change vessel registration on limited entry permits with sablefish endorsements will not be approved until SFD has received complete documentation of permit ownership as described at paragraph (b)(3)(iv)(C)(4) and as required under paragraph (b)(4)(vii) of this section. Applications to change vessel registration on limited entry permits with trawl endorsements or MS permits will not be approved until SFD has received complete EDC forms as required under § 660.114, subpart D. {revised at 75 FR 78334, 12/15/2010}

(B) Application. A complete application must be submitted to SFD in order for SFD to review and approve a change in vessel registration. At a minimum, a permit owner seeking to change vessel registration of a limited entry permit shall submit to SFD a signed application form and his/her current limited entry permit before the first day of the cumulative limit period in which they wish to fish. If a permit owner provides a signed application and current limited entry permit after the first day of a cumulative limit period, the permit will not be effective until the succeeding cumulative limit period. SFD will not approve a change in vessel registration until it receives a complete application, the existing permit, a current copy of the USCG 1270, and other required documentation. {revised at 75 FR 78334, 12/15/2010}

(C) Effective date. Changes in vessel registration on permits will take effect no sooner than the first day of the next major limited entry cumulative limit period following the date that SFD receives the signed permit change in vessel registration form and the original limited entry permit, except that changes in vessel registration on MS permits and C/P-endorsed permits will take effect

Vessel account means an account held by the vessel owner where QP and IBQ pounds are registered for use by a vessel in the Shorebased IFQ Program.

§ 660.112 Trawl fishery—prohibitions. {revised at 75 FR 78344, 12/15/2010; revised at 76 FR 53833, August 30, 2011}

These prohibitions are specific to the limited entry trawl fisheries. General groundfish prohibitions are defined at §660.12, subpart C. In addition to the general prohibitions specified in §600.725 of this chapter, it is unlawful for any person or vessel to:

(a) General

(1) Trawl gear endorsement. Fish with groundfish trawl gear, or carry groundfish trawl gear on board a vessel that also has groundfish on board, unless the vessel is registered for use with a valid limited entry permit with a trawl gear endorsement, with the following exception.

(i) The vessel is in continuous transit from outside the fishery management area to a port in Washington, Oregon, or California;

(ii) The vessel is registered to a limited entry MS permit with a valid mothership fishery declaration, in which case trawl nets and doors must be stowed in a secured and covered manner, and detached from all towing lines, so as to be rendered unusable for fishing.

(2) Sorting. Fail to sort catch consistent with the requirements specified at § 660.130(d). {added at 75 FR 78344, 12/15/2010}

(3) Recordkeeping and reporting.

(i) Fail to comply with all recordkeeping and reporting requirements at §660.13; including failure to submit information, submission of inaccurate information, or intentionally submitting false information on any report required at §660.13(d), and §660.113. {revised at 76 FR 53833, August 30, 2011}

(ii) Falsify or fail to make and/or file, retain or make available any and all reports of groundfish landings, containing all data, and in the exact manner, required by the regulation at §660.13, subpart C, or §660.113, subpart D.

(iii) Failure to submit a complete EDC form to NMFS as required by § 660.113. {added at 75 FR 78344, 12/15/2010}

(4) Observers. {added at 75 FR 78344, 12/15/2010}

stored in or accessible through a computer or other information retrieval system; worksheets; weight slips; preliminary, interim, and final tally sheets; receipts; checks; ledgers; notebooks; diaries; spreadsheets; diagrams; graphs; charts; tapes; disks; or computer printouts. All relevant records used in the preparation of electronic fish ticket reports or corrections to these reports, including dock tickets, must be maintained for a period of not less than three years after the date and must be immediately available upon request for inspection by NMFS or authorized officers or others as specifically authorized by NMFS. {revised at 76 FR 74725, 12/1/2011}

(b) Shorebased IFQ Program. {added at 75 FR 78344, 12/15/2010}

(1) Economic data collection (EDC) program. The following persons are required to submit an EDC form as specified at § 660.114:

- (i) All owners, lessees, and charterers of a catcher vessel registered to a limited entry trawl endorsed permit.
- (ii) All owners of a first receiver site license.
- (iii) All owners and lessees of a shorebased processor.

(2) Electronic vessel logbook. [Reserved]

(3) Gear switching declaration. Any person with a limited entry trawl permit participating in the Shorebased IFQ Program using groundfish non-trawl gear (i.e., gear switching) must submit a valid gear declaration reporting such participation as specified in § 660.13(d)(5)(iv)(A).

(4) Electronic fish ticket. The IFQ first receiver is responsible for compliance with all reporting requirements described in this paragraph.

(i) Required information. All IFQ first receivers must provide the following types of information: Date of landing, vessel that made the delivery, vessel account number, name of the vessel operator, gear type used, catch area, first receiver, actual weights of species landed listed by species or species group including species with no value, condition landed, number of salmon by species, number of Pacific halibut, ex-vessel value of the landing by species, fish caught inside/outside 3 miles or both, and any other information deemed necessary by the Regional Administrator as specified on the appropriate electronic fish ticket form. {revised at 76 FR 74725, 12/1/2011}

(ii) Submissions. The IFQ first receiver must: {revised at 76 FR 74725, 12/1/2011}

(A) Include as part of each electronic fish ticket submission, the actual scale weight for each groundfish species as specified by requirements at §660.15(c), and the vessel identification number.

including estimates of fish weights or species composition, shall not be submitted on electronic fish tickets.

(iv) Waivers for submission. On a case-by-case basis, a temporary written waiver of the requirement to submit electronic fish tickets may be granted by the Assistant Regional Administrator or designee if he/she determines that circumstances beyond the control of a first receiver would result in inadequate data submissions using the electronic fish ticket system. The duration of the waiver will be determined on a case-by-case basis.

(v) Reporting requirements when a temporary waiver has been granted. IFQ First receivers that have been granted a temporary waiver from the requirement to submit electronic fish tickets must submit on paper the same data as is required on electronic fish tickets within 24 hours of the date received during the period that the waiver is in effect. Paper fish tickets must be sent by facsimile to NMFS, Northwest Region, Sustainable Fisheries Division, 206-526-6736 or by delivering it in person to 7600 Sand Point Way, NE., Seattle, WA 98115. The requirements for submissions of paper tickets in this paragraph are separate from, and in addition to existing state requirements for landing receipts or fish receiving tickets.

(c) MS Coop Program (coop and noncoop fisheries). {added at 75 FR 78344, 12/15/2010}

(1) Economic data collection (EDC) program. The following persons are required to submit a complete economic data collection form as specified at § 660.114.

(i) All owners, lessees, and charterers of a catcher vessel registered to a limited entry trawl MS/CV-endorsed permit.

(ii) All owners, lessees, and charterers of a vessel registered to an MS permit.

(2) NMFS-approved scales

(i) Scale test report form. Mothership vessel operators are responsible for conducting scale tests and for recording the scale test information on the at-sea scale test report form as specified at § 660.15(b), subpart C, for mothership vessels.

(ii) Printed scale reports. Specific requirements pertaining to printed scale reports and scale weight print outs are specified at § 660.15(b), subpart C, for mothership vessels.

(iii) Retention of scale records and reports. The vessel must maintain the test report form on board until the end of the fishing year during which the tests were conducted, and make the report forms available to observers, NMFS staff, or authorized officers. In addition, the vessel owner must retain the scale test report

forms for 3 years after the end of the fishing year during which the tests were performed. All scale test report forms must be signed by the vessel operator.

(3) Annual coop report

(i) The designated coop manager for the mothership coop must submit an annual report to the Council for its November meeting each year. The annual coop report will contain information about the current year's fishery, including: {revised at 76 FR 53833, August 30, 2011}

(A) The mothership sector's annual allocation of Pacific whiting and the permitted mothership coop allocation;

(B) The mothership coop's actual retained and discarded catch of Pacific whiting, salmon, Pacific halibut, rockfish, groundfish, and other species on a vessel-by-vessel basis;

(C) A description of the method used by the mothership coop to monitor performance of coop vessels that participated in the fishery;

(D) A description of any actions taken by the mothership coop in response to any vessels that exceed their allowed catch and bycatch; and

(E) Plans for the next year's mothership coop fishery, including the companies participating in the cooperative, the harvest agreement, and catch monitoring and reporting requirements.

(ii) The annual coop report submitted to the Council must be finalized to capture any additional fishing activity that year and submitted to NMFS by March 31 of the following year before a coop permit is issued for the following year. {revised at 76 FR 53833, August 30, 2011}

(4) Cease fishing report. As specified at § 660.150(c)(4)(ii), the designated coop manager, or in the case of an intercoop agreement, all of the designated coop managers must submit a cease fishing report to NMFS indicating that harvesting has concluded for the year.

(d) C/P Coop Program. {revised at 75 FR 78344, 12/15/2010}

(1) Economic data collection (EDC) program. All owners, lessees, and charterers of a vessel registered to a C/P-endorsed limited entry trawl permit are required to submit a complete economic data collection form as specified at § 660.114.

(2) NMFS-approved scales

§ 660.114 Trawl fishery—economic data collection program. {added at 75 FR 78344, 12/15/2010}

(a) General. The economic data collection (EDC) program collects mandatory economic data from participants in the trawl rationalization program. NMFS requires submission of an EDC form to gather ongoing, annual data for 2011 and beyond, as well as a onetime collection in 2011 of baseline economic data from 2009 through 2010.

(b) Economic data collection program requirements. The following fishery participants in the limited entry groundfish trawl fisheries are required to comply with the following EDC program requirements:

Fishery participant	Economic data collection	Who is required to submit an EDC?	Consequence for failure to submit (In addition to consequences listed below, failure to submit an EDC may be a violation of the MSA.)
(1) Limited entry trawl catcher vessels.	(i) Baseline (2009 and 2010) economic data.	All owners, lessees, and charterers of a catcher vessel registered to a limited entry trawl endorsed permit at any time in 2009 or 2010.	<p>(A) For permit owner, a limited entry trawl permit application (including MS/CV-endorsed limited entry trawl permit) will not be considered complete until the required EDC for that permit owner associated with that permit is submitted, as specified at §660.25(b)(4)(i), subpart C.</p> <p>(B) For a vessel owner, participation in the groundfish fishery (including, but not limited to, changes in vessel registration, vessel account actions, or if own QS permit, issuance of annual QP or IBQ pounds) will not be authorized until the required EDC for that owner for that vessel is submitted, as specified, in part, at §660.25(b)(4)(v), subpart C and §660.140(e), subpart D.</p> <p>(C) For a vessel lessee or charterer, participation in the groundfish fishery (including, but not limited to, issuance of annual QP or IBQ pounds if own QS or IBQ) will not be authorized, until the required EDC for their operation of that vessel is submitted.</p>
	(ii) Annual/ongoing (2011 and beyond) economic data.	All owners, lessees, and charterers of a catcher vessel registered to a limited entry trawl endorsed permit at any time in 2011 and beyond.	<p>(A) For permit owner, a limited entry trawl permit application (including MS/CV-endorsed limited entry trawl permit) will not be considered complete until the required EDC for that permit owner associated with that permit is submitted, as specified at §660.25(b)(4)(i), subpart C.</p> <p>(B) For a vessel owner, participation in the groundfish fishery (including, but not limited to, changes in vessel registration, vessel account actions, or if own QS permit, issuance of annual QP or IBQ pounds) will not be authorized until the required EDC for that owner for that vessel is submitted, as specified, in part, at §660.25(b)(4)(v), subpart C and §660.140(e), subpart D.</p> <p>(C) For a vessel lessee or charterer, participation in the groundfish fishery (including, but not limited to, issuance of annual QP or IBQ pounds if own QS or IBQ) will not be authorized, until the required EDC for their operation of that vessel is submitted.</p>
(2) Motherships.	(i) Baseline (2009 and 2010) economic data.	All owners, lessees, and charterers of a mothership vessel that	(A) For permit owner, an MS permit application will not be considered complete until the required EDC for that permit owner associated with that permit is submitted, as specified at §660.25(b)(4)(i), subpart C.

		received whiting in 2009 or 2010 as recorded in NMFS' NORPAC database.	<p>(B) For a vessel owner, participation in the groundfish fishery (including, but not limited to, changes in vessel registration) will not be authorized until the required EDC for that owner for that vessel is submitted, as specified, in part, at §660.25(b)(4)(v), subpart C.</p> <p>(C) For a vessel lessee or charterer, participation in the groundfish fishery will not be authorized, until the required EDC for their operation of that vessel is submitted.</p>
	(ii) Annual/ongoing (2011 and beyond) economic data.	All owners, lessees, and charterers of a mothership vessel registered to an MS permit at any time in 2011 and beyond.	<p>(A) For permit owner, an MS permit application will not be considered complete until the required EDC for that permit owner associated with that permit is submitted, as specified at §660.25(b)(4)(i), subpart C.</p> <p>(B) For a vessel owner, participation in the groundfish fishery (including, but not limited to, changes in vessel registration) will not be authorized until the required EDC for that owner for that vessel is submitted, as specified, in part, at §660.25(b)(4)(v), subpart C.</p> <p>(C) For a vessel lessee or charterer, participation in the groundfish fishery will not be authorized, until the required EDC for their operation of that vessel is submitted.</p>
(3) Catcher processors.	(i) Baseline (2009 and 2010) economic data.	All owners, lessees, and charterers of a catcher processor vessel that harvested whiting in 2009 or 2010 as recorded in NMFS' NORPAC database.	<p>(A) For permit owner, a C/P-endorsed limited entry trawl permit application will not be considered complete until the required EDC for that permit owner associated with that permit is submitted, as specified at §660.25(b)(4)(i), subpart C.</p> <p>(B) For a vessel owner, participation in the groundfish fishery (including, but not limited to, changes in vessel registration) will not be authorized until the required EDC for that owner for that vessel is submitted, as specified, in part, at §660.25(b)(4)(v), subpart C.</p> <p>(C) For a vessel lessee or charterer, participation in the groundfish fishery will not be authorized, until the required EDC for their operation of that vessel is submitted.</p>
	(ii) Annual/ongoing (2011 and beyond)	All owners, lessees, and charterers of a catcher	(A) For permit owner, a C/P-endorsed limited entry trawl permit application will not be considered complete until the required EDC for that permit owner

	economic data.	processor vessel registered to a catcher processor permit at any time in 2011 and beyond.	<p>associated with that permit is submitted, as specified at §660.25(b)(4)(i), subpart C.</p> <p>(B) For a vessel owner, participation in the groundfish fishery (including, but not limited to, changes in vessel registration) will not be authorized until the required EDC for that owner for that vessel is submitted, as specified, in part, at §660.25(b)(4)(v), subpart C.</p> <p>(C) For a vessel lessee or charterer, participation in the groundfish fishery will not be authorized, until the required EDC for their operation of that vessel is submitted.</p>
(4) First receivers/shorebased processors.	(i) Baseline (2009 and 2010) economic data.	All owners and lessees of a shorebased processor and all buyers that received groundfish or whiting harvested with a limited entry trawl permit as listed in the PacFIN database in 2009 or 2010.	A first receiver site license application for a particular physical location for processing and buying will not be considered complete until the required EDC for the applying processor or buyer is submitted, as specified at §660.140(f)(3), subpart D.
	(ii) Annual/ongoing (2011 and beyond) economic data.	<p>(A) All owners of a first receiver site license in 2011 and beyond.</p> <p>(B) All owners and lessees of a shore-based processor (as defined under "processor" at §660.11, subpart C, for purposes of EDC) that received round or headed-and-gutted IFQ species groundfish or whiting from a first receiver in 2011 and beyond.</p>	A first receiver site license application will not be considered complete until the required EDC for that license owner associated with that license is submitted, as specified at §660.140(f)(3), subpart D. See paragraph (b)(4)(ii)(A) of this table.

(c) Submission of the EDC form and deadline

(1) Submission of the EDC form. The complete, certified EDC form must be submitted to ATTN: Economic Data Collection Program (FRAM Division), NMFS, Northwest Fisheries Science Center, 2725 Montlake Boulevard East, Seattle, WA 98112. A complete EDC form contains responses for all data fields, which include but are not limited to costs, labor, earnings, activity in a fishery, vessel or plant characteristics, value, quota, operational information, location of expenditures and earnings, ownership information and leasing information.

(2) Deadline. Complete, certified EDC forms must be mailed and postmarked by or hand-delivered to NMFS NWFSC no later than September 1, 2011, for baseline data, and, for the annual/ ongoing data collection beginning September 1, 2012, September 1 each year for the prior year's data.

(d) Confidentiality of information. Information received on an EDC form will be considered confidential under applicable law and guidance.

(e) EDC audit procedures

(1) NMFS reserves the right to conduct verification of economic data with the submitter of the form. NMFS may employ a third party agent to conduct the audits.

(2) The submitter of the EDC form must respond to any inquiry by NMFS or a NMFS agent within 20 days of the date of issuance of the inquiry, unless an extension is granted by NMFS.

(3) The submitter of the form must provide copies of additional data to facilitate verification by NMFS or NMFS' agent upon request. The NMFS auditor may review and request copies of additional data provided by the submitter, including but not limited to, previously audited or reviewed financial statements, worksheets, tax returns, invoices, receipts, and other original documents substantiating the economic data submitted.

§ 660.120 Trawl fishery—crossover provisions. {revised at 76 FR 74725, 12/1/2011}

The crossover provisions listed at §660.60(h)(7), apply to vessels fishing in the limited entry trawl fishery. {revised at 76 FR 74725, 12/1/2011}

§ 660.130 Trawl fishery—management measures. {revised at 75 FR 78344, 12/15/2010; revised at 75 FR 82296, 12/30/2010; revised at 76 FR 53833, August 30, 2011; revised at 76 FR 74725, 12/1/2011}

(a) General. Limited entry trawl vessels are those vessels registered to a limited entry permit with a trawl endorsement and those vessels registered to an MS permit. Most species taken in limited entry trawl fisheries will be managed with quotas (see § 660.140), allocations or set-asides (see § 660.150 or § 660.160), or cumulative trip limits (see trip limits in Tables 1 (North) and 1 (South) of this subpart), size limits (see § 660.60 (h)(5), subpart C), seasons (see Pacific whiting at § 660.131(b), subpart D), gear restrictions (see paragraph (b) of this section) and closed areas (see paragraph (e) of this section and §§ 660.70 through 660.79, subpart C). The trawl fishery has gear requirements and harvest limits that differ by the type of trawl gear on board and the area fished. Groundfish vessels operating south of Point Conception must adhere to CCA restrictions (see paragraph (e)(1) of this section and § 660.70, subpart C). The trip limits in Tables 1 (North) and 1 (South) of this subpart apply to vessels participating in the

(ii) Registration. A vessel account must be registered with the NMFS SFD Permits Office. A vessel account may be established at any time during the year. An eligible vessel owner must submit a request in writing to NMFS to establish a vessel account. The request must include the vessel name; USCG vessel registration number (as given on USCG Form 1270) or state registration number, if no USCG documentation; all vessel owner names (as given on USCG Form 1270, or on state registration, as applicable); and business contact information, including: Address, phone number, fax number, and email. Requests for a vessel account must also include the following information: A complete economic data collection form as required under §660.113(b), (c) and (d), and a complete Trawl Identification of Ownership Interest Form as required under paragraph (e)(4)(ii) of this section. The request for a vessel account will be considered incomplete until the required information is submitted. Any change specified at paragraph (e)(3)(ii) of this section, including a change in the legal name of the vessel owner(s), will require the new owner to register with NMFS for a vessel account. A participant must have access to a computer with Internet access and must set up online access to their vessel account to participate. The computer must have Internet browser software installed (e.g., Internet Explorer, Netscape, Mozilla Firefox); as well as the Adobe Flash Player software version 9.0 or greater. NMFS will mail vessel account owners instructions to set up online access to their vessel account. NMFS will use the vessel account to send messages to vessel owners in the Shorebased IFQ Program; it is important for vessel owners to monitor their online vessel account and all associated messages. {revised at 76 FR 74725, 12/1/2011}

(3) Renewal, change of account ownership, and transfer of QP or IBQ pounds

(i) Renewal.

(A) Vessel accounts expire at the end of each calendar year, and must be renewed between October 1 and November 30 of each year in order to ensure the vessel account is active on January 1 of the following year. A complete vessel account renewal package must be received by SFD no later than November 30 to be accepted by NMFS.

(B) Notification to renew vessel accounts will be issued by SFD prior to September 1 each year to the vessel account owner's most recent address in the SFD record. The vessel account owner shall provide SFD with notice of any address change within 15 days of the change.

(C) Any vessel account for which SFD does not receive a vessel account renewal request by November 30 will have its vessel account inactivated by NMFS at the end of the calendar year. NMFS will not issue QP or IBQ pounds to the inactivated vessel account. Any QP or IBQ pounds in the vessel account will expire and surplus QP or IBQ pounds will not be available for carryover. A non-renewed vessel account may be renewed in a subsequent year by submission of a complete vessel account renewal package.

(D) Vessel accounts will not be renewed until SFD has received a complete application for a vessel account renewal, which includes payment of required fees, a complete documentation of permit ownership on the Trawl Identification

of Ownership Interest Form as required under paragraph (e)(4)(ii) of this section, and a complete economic data collection form as required under §660.114. The vessel account renewal will be considered incomplete until the required information is submitted. {revised at 76 FR 74725, 12/1/2011}

(E) Effective Date. A vessel account is effective on the date issued by NMFS and remains effective until the end of the calendar year.

(F) IAD and appeals. Vessel account renewals are subject to the appeals process specified at § 660.25(g), subpart C.

(ii) Change in vessel account ownership. Vessel accounts are non-transferable and ownership of a vessel account cannot change (*i.e.* , cannot change the legal name of the owner(s) as given on the vessel account). If the ownership of a vessel changes (as given on a USCG or state vessel registration documentation), then a new vessel account must be opened by the new owner in order for the vessel to participate in the Shorebased IFQ Program. {revised at 76 FR 74725, 12/1/2011}

(iii) Transfer of QP or IBQ pounds

(A) General. QP or IBQ pounds may only be transferred from a QS account to a vessel account or between vessel accounts. QP or IBQ pounds cannot be transferred from a vessel account to a QS account. Transfers of QP or IBQ pounds are subject to accumulation limits. QP or IBQ pounds in a vessel account may only be transferred to another vessel account. QP or IBQ pounds must be transferred in whole pounds (i.e., no fraction of a QP or IBQ pound can be transferred). During the year there may be situations where NMFS deems it necessary to prohibit transfers (i.e., account reconciliation, system maintenance, or for emergency fishery management reasons).

(B) Transfer procedures. QP or IBQ pound transfers from one vessel account to another vessel account must be accomplished via the online vessel account. To make a transfer, a vessel account owner must initiate a transfer request by logging onto the online vessel account. Following the instructions provided on the Web site, the vessel account owner must enter pertinent information regarding the transfer request including, but not limited to: IFQ species, amount of QP or IBQ pounds to be transferred for each IFQ species (in whole pound increments); name and any other identifier of the eligible transferee (e.g., USCG documentation number or state registration number, as applicable) of the eligible vessel account receiving the transfer; and the value of the transferred QP or IBQ pounds. The online system will verify whether all information has been entered and whether the transfer complies with vessel limits, as applicable. If the information is not accepted, an electronic message will record as much in the transferor's vessel account explaining the reason(s). If the information is accepted, the online system will record the pending transfer in both the transferor's and the transferee's vessel accounts. The transferee must approve the transfer by electronic signature. If the transferee accepts the transfer, the online system will record the transfer and confirm the transaction in both accounts through a transaction confirmation

Appendix C Council Action on Mandatory Economic Data Collection

Taken from footnote bb in Appendix D to The Rationalization of the Pacific Coast Groundfish Limited Entry Trawl Fishery Draft Environmental Impact Statement (November 2009).

Expanded data collection would include:

Mandatory submission of economic data for LE trawl industry (harvesters and processors), Voluntary submission of economic data for other sectors of the fishing industry, transaction value information in a centralized registry of ownership, and Formal monitoring of government costs.

Mandatory Provisions: The Pacific Fishery Management Council and NMFS shall have the authority to implement a data collection program for cost, revenue, ownership, and employment data, compliance with which will be mandatory for members of the west coast groundfish industry harvesting or processing fish under the Council's authority. Data collected under this authority will be treated as confidential in accordance with Section 402 of the MSA. A mandatory data collection program shall be developed and implemented as part of the groundfish trawl catch share program and continued through the life of the program. Cost, revenue, ownership, employment and other information will be collected on a periodic basis (based on scientific requirements) to provide the information necessary to study the impacts of the program, including achievement of goals and objectives associated with the catch share program. These data may also be used to analyze the economic and social impacts of future FMP amendments on industry, regions, and localities. The program will include targeted and random audits as necessary to verify and validate data submissions. Additional funding (as compared to status quo) will be needed to support the collection of these data. The data collected would include data needed to meet MSA requirements (including antitrust). The development of the program shall include a comprehensive discussion of the enforcement of such a program, including discussion of the type of enforcement actions that will be taken if inaccuracies are found in mandatory data submissions. The intent of this action will be to ensure that accurate data are collected without being overly burdensome on industry in the event of unintended errors.

Voluntary Provisions: A voluntary data collection program will be used to collect information needed to assess spillover impacts on non-trawl fisheries.

Central Registry: Information on transaction prices will be included in a central registry of QS owners. Such information will also be included for LE permit owners/lessees.

Government Costs: Data will be collected and maintained on the monitoring, administration, and enforcement costs related to governance of the trawl catch share program.

Appendix D Non-Disclosure Agreement

Appendix E Internal Data Business Rule Checks

E.1 Catcher vessels

Vessel valuation (Question 8)

If the year of the most recent marine survey valuation is provided then all of the following need to be provided: market value, replacement value, whether the survey value includes the value of permit(s), whether the survey value includes the value of quota, and whether the survey value includes the value of fishing gear.

Fuel use (Questions 12)

If either the number of days at sea participating in West Coast fisheries (whiting, groundfish trawl, groundfish fixed gear, shrimp, crab, halibut, salmon, tuna, other) or the fuel use while participating in the West Coast fisheries is greater than zero then both should be greater than zero.

Average fuel use, speed while fishing and crew size (Question 11)

If days at sea are provided for a West Coast fishery (whiting, groundfish trawl, groundfish fixed gear, shrimp, crab, halibut, salmon, tuna, other), then the fuel use, speed, and crew size should be provided. Speed is not required for groundfish fixed gear, crab, or halibut.

Alaska (Questions 13, 14, 18, 20)

If any of the following are greater than zero, then they should all be greater than zero:

1. Days at sea participating in Alaskan fisheries
2. Days at sea steaming between the West Coast and Alaska

3. Number of one-way trips the vessel made steaming between the West Coast and Alaska
4. Total round weight of all fish landings made by the vessel in Alaska
5. Landings revenue from Alaska shoreside landings and at-sea deliveries

Shared capitalized expenditures and expenses (Questions 15 and 17)

If the days at sea while participating in Alaskan fisheries are not greater than zero then there should only be NAs or zeroes in the following fields:

1. Capitalized expenditures on fishing gear shared by West Coast, Alaska, and other fisheries
2. Capitalized expenditures on processing equipment shared by West Coast, Alaska, and other fisheries
3. Expenses on repair and maintenance on fishing gear shared by West Coast, Alaska, and other fisheries

Chartering/research/leasing vessel (Questions 13 and 20)

Unless the vessel was leased, if either the days at sea while chartering/research or earnings from chartering/research/leasing vessel are greater than zero, then both should be greater than zero.

Hired captain crew share

The vessel, captain, crew, and other shares for when the owner **did not serve as captain** should sum to 100% ± 2% as long as the vessel fished and the vessel owner served as captain less than 100% of the time in West Coast groundfish fisheries.

Owner on board crew share

The vessel, captain, crew, and other shares for when the owner **served as captain** should sum to 100% ± 2% as long as the vessel fished and the vessel owner served as captain in West Coast groundfish fisheries.

Capitalized investments and expenses

We have found that participants in the survey often confuse capitalized expenditures and expenses. Additionally, many do not distinguish between the costs related to vessel and on-board equipment and fishing gear. Participants respond to this confusion and record keeping issue in one of two

ways, they take the total outlay, divide it and put an equal portion into each field, or they take the total outlay and record it in multiple fields. With the available information, it is impossible to distinguish between the two different response types, so all duplicate entries are flagged and then the participants are called to ensure that the information is being recorded in the correct field and to ensure that there is no double counting. Only non-zero and non-NA responses were compared in the following fields:

1. Capitalized expenditures on new and used vessel and on-board equipment
2. Capitalized expenditures on fishing gear used in West Coast Fisheries only
3. Capitalized expenditures on fishing gear shared by West Coast, Alaska and other fisheries
4. Capitalized expenditures on processing equipment used in West Coast Fisheries only
5. Capitalized expenditures on processing equipment shared by West Coast, Alaska and other fisheries
6. Repair and maintenance on fishing gear used only for the West Coast (expensed during the year)
7. Repair and maintenance on fishing gear shared by the West Coast and other fisheries (expensed during the year)
8. Repair and maintenance on processing equipment (expensed during the year)
9. Vessel and on-board equipment repair and maintenance (expensed during the year)
10. Depreciation (vessel, on-board equipment processing equipment, and quota share)

Profitability

Although it is possible that a vessel could have greater expenses than revenues within a given year, we still flag all forms where the total variable costs (expenses) are more than the total earnings. The variable costs are calculated, as the sum of all expenses provided on the forms, not included in this check is expenses on landings taxes. The total revenue for the boat is the sum of revenues reported on the form and total revenue reported on the state fish ticket records.

Expenses and revenues on quota pounds, quota shares, limited entry permits

In the first year of the trawl catch share program, it was common for participants to list the expenses and earnings under both expenses and earnings. This check tests whether there are any duplicate responses in any of the expense or revenue fields for quota pounds, quota shares, and limited entry permits. Null responses and zeroes are ignored.

E.2 Catcher-processors

Vessel valuation (Question 8)

If the year of the most recent marine survey valuation is provided, then all of the following need to be provided: market value, replacement value, whether the survey value includes the value of permit(s), whether the survey value includes the value of quota, whether the survey value includes the value of processing equipment, and whether the survey value includes the value of fishing gear.

Alaska (Questions 10, 12, 13)

If any of the following are greater than zero, then they should all be greater than zero:

1. Days at sea participating in Alaskan fisheries
2. Days at sea steaming between the West Coast and Alaska
3. Number of one-way trips the vessel made steaming between the West Coast and Alaska

Fuel use and days at sea (Questions 6 and 12)

If either the number of days at sea participating in West Coast whiting fishery or the fuel use while participating in the West Coast whiting fishery is greater than zero then both should be greater than zero.

Shared capitalized expenditures and expenses (Questions 15 and 17)

If the days at sea while participating in Alaskan fisheries are not greater than zero then there should only be NAs or zeroes in the following fields:

1. Capitalized expenditures on fishing gear shared by West Coast, Alaska, and other fisheries
2. Capitalized expenditures on processing equipment shared by West Coast, Alaska, and other fisheries
3. Expenses on repair and maintenance on fishing gear shared by West Coast, Alaska, and other fisheries

Capitalized investments and expenses (Questions 15 and 17)

We have found that participants in the survey regularly confuse capitalized expenditures and expenses. Additionally, many do not distinguish between the costs related to vessel and on-board

equipment and fishing gear. Participants respond to this confusion and record keeping issue in one of two ways, they take the total outlay, divide it and put an equal portion into each field, or they take the total outlay and record it in multiple fields. With the available information, it is impossible to distinguish between the two different response types, so all duplicate entries are flagged and then the participants are called to ensure that the information is being recorded in the correct field and to ensure that there is no double counting. Only non-zero and non-NA responses were compared in the following fields:

1. Capitalized expenditures on new and used vessel and on-board equipment
2. Capitalized expenditures on fishing gear used in West Coast Whiting Fishery only
3. Capitalized expenditures on fishing gear shared by West Coast, Alaska and other fisheries
4. Capitalized expenditures on processing equipment used in West Coast Whiting Fishery only
5. Capitalized expenditures on processing equipment shared by West Coast, Alaska and other fisheries
6. Repair and maintenance on fishing gear used only for the West Coast (expensed during the year)
7. Repair and maintenance on fishing gear shared by the West Coast and other fisheries (expensed during the year)
8. Repair and maintenance on processing equipment (expensed during the year)
9. Vessel and on-board equipment repair and maintenance (expensed during the year)
10. Depreciation (vessel, on-board equipment processing equipment, and quota share)

Weight and value of production (Question 20)

If there is a positive value for weight of production, a positive value should also be listed for value of production.

Off-load value percentages (Question 20)

The percentages of off-load value listed for the eight locations should sum to 100%.

Total round weight (Question 18)

If days at sea are given for processing or Alaska fisheries, total weight should be positive.

E.3 Motherships

Vessel valuation (Question 8)

If the year of the most recent marine survey valuation is provided then all of the following need to be provided: market value, replacement value, whether the survey value includes the value of permit(s), whether the survey value includes the value of quota, and whether the survey value includes the value of fishing gear and/or processing equipment.

Alaska (Questions 10, 12, 13)

If any of the following are greater than zero, then they should all be greater than zero:

1. Days at sea participating in Alaskan fisheries
2. Average fuel use steaming between the West Coast and Alaska
3. Days at sea steaming between the West Coast and Alaska
4. Number of one-way trips the vessel made steaming between the West Coast and Alaska

Fuel use and days at sea (Questions 6, 12)

If either the number of days at sea participating in West Coast whiting fishery or the fuel use while participating in the West Coast whiting fishery is greater than zero then both should be greater than zero.

Shared capitalized expenditures and expenses (Questions 15 and 17)

If the days at sea while participating in Alaskan fisheries are not greater than zero then there should only be NAs or zeroes in the following fields:

1. Capitalized expenditures on fishing gear shared by West Coast, Alaska, and other fisheries
2. Capitalized expenditures on processing equipment shared by West Coast, Alaska, and other fisheries
3. Expenses on repair and maintenance on fishing gear shared by West Coast, Alaska, and other fisheries

Capitalized investments and expenses (Questions 15 and 17)

We have found that participants in the survey regularly confuse capitalized expenditures and expenses. Additionally, many do not distinguish between the costs related to vessel and on-board

equipment and fishing gear. Participants respond to this confusion and record keeping issue in one of two ways, they take the total outlay, divide it and put an equal portion into each field, or they take the total outlay and record it in multiple fields. With the available information, it is impossible to distinguish between the two different response types, so all duplicate entries are flagged and then the participants are called to ensure that the information is being recorded in the correct field and to ensure that there is no double counting. Only non-zero and non-NA responses were compared in the following fields:

1. Capitalized expenditures on new and used vessel and on-board equipment
2. Capitalized expenditures on fishing gear used in West Coast Whiting Fishery only
3. Capitalized expenditures on fishing gear shared by West Coast, Alaska and other fisheries
4. Capitalized expenditures on processing equipment used in West Coast Whiting Fishery only
5. Capitalized expenditures on processing equipment shared by West Coast, Alaska and other fisheries
6. Repair and maintenance on fishing gear used only for the West Coast (expensed during the year)
7. Repair and maintenance on fishing gear shared by the West Coast and other fisheries (expensed during the year)
8. Repair and maintenance on processing equipment (expensed during the year)
9. Vessel and on-board equipment repair and maintenance (expensed during the year)
10. Depreciation (vessel, on-board equipment processing equipment, and quota share)

Weight and value of production (Question 20)

If there is a positive value for weight of production, a positive value should also be listed for value of production.

Off-load value percentages (Question 20)

The percentages of off-load value listed for the eight locations should sum to 100%.

Purchase cost and production value (Questions 18 and 20)

Total production value should be higher than total purchase cost.

Total round weight (Question 19)

If days at sea are given for processing or Alaska fisheries, total weight should be positive.

Validation of catch weight with external data (Question 18)

Total purchase weight provided on the form should equal $\pm 5\%$ purchase weight obtained through NORPAC Observer Data in PacFIN.

E.4 First receivers and shorebased processors

Weight of fish received but not paid and weight of fish purchased (Question 19)

Especially during the baseline data collection, it was common for participants to record the same value under “Total weight of fish received but not paid for” and under “Total weight of fish purchased.” This rule flags the cases where this occurs to verify that fish purchases are not double-counted.

Gross cost of purchases and weight of purchases (Question 19)

Especially during the baseline data collection, participants would often write the same value for the weight and cost of fish purchases. Although it is possible that the price is \$1 per pound, it is unlikely. This question flags cases where the value of “Gross cost of fish purchases” is equal to the “Total weight of fish purchased” when the value provided is not zero.

Duplicate weight of fish received but not paid for (Question 19)

The “Total weight of fish received but not paid for” by species from one gear type should not equal the “weight of fish received but not paid for” from “Other Sources” for that species.

Duplicate weight of fish purchased (Question 19)

The “Total weight of fish purchased” by species from one gear type should not equal the weight of fish purchased from “Other Sources” for that species.

Duplicate cost of fish purchased (Question 19)

The “Gross cost of fish purchases” by species from one gear type should not equal the weight of fish purchased from “Other Sources” for that species.

Weight and value of production (Question 20)

If the “Total value of production” is greater than zero, then “Total weight of production” should be greater than zero for that species and product type combination and vice versa.

Fish purchase weight and fish production weight (Question 19 and 20)

The “Total weight of fish purchased” by species recorded in Question 19 should be greater than or equal to the sum of “Total weight of production” by species recorded in Question 20.

Quasi-Profit (Question 19 and 20)

Although it is possible that a company could sell fish for less than the cost of the purchase, we still flag the cases where the “Gross cost of fish purchases” by species in Question 19 is greater than the “Total value of production” by species.

Duplicate weight of production (Question 20)

The “Total weight of production” of one product type should not equal the “Total weight of production” of any another product type by species. If this rule is violated, an error message will be created.

Duplicate value of production (Question 20)

Although it is possible that there could be exactly the same value of production for two different product type and species combinations, verify that the “Total value of production” of one product type and species does not equal the “Total value of production” of any other product type and species.

Average hours worked

Based on the assumption that production workers or employees cannot work more than 16 hours per day, 7 days a week, a check is performed to ensure that average hours per workers is never greater than 112 hours/worker or employee.

Average purchase price, production price, markup, product recovery rate

For the most part, the rules above have strict interpretations. In addition to these rules, we also looked at several measures by species group, such as the average purchase price (total cost/total purchase weight), the average production price (total value of production/total weight of production), the average markup (total value of production/total cost of purchases), and the average recovery rate (total production weight/total purchase weight). In these cases, individual responses were examined because we did not have enough information about the ranges of these values. In the future, as more information is collected, we will be able to develop a set of appropriate ranges in order to flag specific responses.

Validation of purchase weight with external data (Question 19)

An entity's purchases are flagged if there is a discrepancy between the weight listed in state fish ticket data in PacFin and the weight listed in the purchase table.

Appendix F Rules for Standardizing NAs and Zeroes

The following tables document rules used for handling NAs and zeroes in the EDC data for catcher vessels, catcher-processors and motherships. There are currently no automated rules for handling NAs and zeroes in the first receiver and shorebased processor data due to the complex nature of many participants' business operations. Three sets of tables are presented for each type of form, the rules tables (Sections F.1.1, F.2.1, and F.3.1), the validation check code definitions (Sections F.1.2, F.2.2, and F.3.2), and the variable code definitions (sections F.1.3, F.2.3, and F.3.3). Descriptions of the variable codes can also be found in Appendix H which contains a copy of each of the four EDC forms and the variable code associated with each field on the form.

The "Tables of rules for handling NAs and zeroes" sections present the rule for each variable to determine how to treat NAs and zeroes entered by participants. The tables show whether each variable should be interpreted as an NA or a zero based on whether the validation check is true or false. The first column shows the variable code (VARIABLE) and the second shows the validation check code (VALIDATION CHECK) that is performed. The RAW RESPONSE column holds the value that was entered by the participant on the form, and the last two columns are the value that will be used in analysis, depending on whether the validation check was true or false.

The first two rows of the first table in Section F.1.1 can be used as an example. These rows refer to the form field CXFGRSHD, which is defined in Section F.1.3 as "Capitalized expenditures on fishing gear shared between the West Coast and other fisheries". This variable relies on the validation check AKWC, defined in F.1.2 as "The catcher vessel fished in Alaska according to AKFIN and fished on the West Coast according to fish ticket data and/or the number of one-way trips to Alaska recorded on the form is greater than zero" to determine how to treat the raw responses provided on the forms. According to the first row, if the raw response was "0" and the validation check was true or the validation check was false, then the value should be interpreted as "0". However, as can be seen in the second line, if the raw response provided on the form was "NA", and the validation check was true, then the value should be interpreted as "NA". The remainder of rules in the "Tables of rules for handling NAs and zeroes" can be interpreted similarly.

F.1 Catcher vessels

F.1.1 Tables of rules for handling NAs and zeroes

Table F.1: Rules for handling NAs and zeroes in catcher vessel data: capitalized expenditures.

VARIABLE	VALIDATION CHECK	RAW RESPONSE	TRUE	FALSE
CXFGRSHD	AKWC	0	0	0
CXFGRSHD	AKWC	NA	NA	0
CXFGRWC	WC	0	0	0
CXFGRWC	WC	NA	NA	0
CXONBQALL	WC	0	0	0
CXONBQALL	WC	NA	NA	0
CXPQSHD	PROC	0	0	0
CXPQSHD	PROC	NA	NA	0
CXPQWC	PROC	0	0	0
CXPQWC	PROC	NA	NA	0

Table F.2: Rules for handling NAs and zeroes in catcher vessel data: crew share information.

VARIABLE	VALIDATION CHECK	RAW RESPONSE	TRUE	FALSE
SHRPCPTHCPT	HCPT	0	0	NA
SHRPCPTHCPT	HCPT	NA	0	NA
SHRPCPTOONB	OONB	0	0	NA
SHRPCPTOONB	OONB	NA	0	NA
SHRPCWHCPT	HCPT	0	0	NA
SHRPCWHCPT	HCPT	NA	0	NA
SHRPCWOONB	OONB	0	0	NA
SHRPCWOONB	OONB	NA	0	NA
SHRPOONB	NOVALIDATION	0	0	NA
SHRPOONB	NOVALIDATION	NA	NA	NA
SHRPOTHRHCPT1	HCPT	0	0	NA
SHRPOTHRHCPT1	HCPT	NA	0	NA
SHRPOTHRHCPT2	HCPT	0	0	NA
SHRPOTHRHCPT2	HCPT	NA	0	NA
SHRPOTHROONB1	OONB	0	0	NA
SHRPOTHROONB1	OONB	NA	0	NA
SHRPOTHROONB2	OONB	0	0	NA
SHRPOTHROONB2	OONB	NA	0	NA
SHRPVSSHCPT	HCPT	0	0	NA
SHRPVSSHCPT	HCPT	NA	0	NA
SHRPVSSOONB	OONB	0	0	NA
SHRPVSSOONB	OONB	NA	0	NA

Table F.3: Rules for handling NAs and zeroes in catcher vessel data: days at sea.

VARIABLE	VALIDATION CHECK	RAW RESPONSE	TRUE	FALSE
DASCHTR	NOVALIDATION	0	0	NA
DASCHTR	NOVALIDATION	NA	NA	NA
DASCRAB	CRAB	0	NA	0
DASCRAB	CRAB	NA	NA	0
DASFSHAK	AK	0	NA	0
DASFSHAK	AK	NA	NA	0
DASFSHAKOTHR	NOVALIDATION	0	NA	NA
DASFSHAKOTHR	NOVALIDATION	NA	NA	NA
DASGRNDFG	GRNDFG	0	NA	0
DASGRNDFG	GRNDFG	NA	NA	0
DASGRNDTWL	GRNDTWL	0	NA	0
DASGRNDTWL	GRNDTWL	NA	NA	0
DASHLB	HLB	0	NA	0
DASHLB	HLB	NA	NA	0
DASOTHRWC	NOVALIDATION	0	0	NA
DASOTHRWC	NOVALIDATION	NA	NA	NA
DASPWHT	PWHT	0	NA	0
DASPWHT	PWHT	NA	NA	0
DASSAMN	SAMN	0	NA	0
DASSAMN	SAMN	NA	NA	0
DASSRMP	SRMP	0	NA	0
DASSRMP	SRMP	NA	NA	0
DASSTMAKWC	AKTRP	0	NA	0
DASSTMAKWC	AKTRP	NA	NA	0
DASTUNA	HMSP	0	NA	0
DASTUNA	HMSP	NA	NA	0

Table F.4: Rules for handling NAs and zeroes in catcher vessel data: expenses.

VARIABLE	VALIDATION CHECK	RAW RESPONSE	TRUE	FALSE
EXBAITWC	BAIT	0	0	0
EXBAITWC	BAIT	NA	NA	0
EXCOMMWC	WC	0	NA	0
EXCOMMWC	WC	NA	NA	0
EXCPTWGW	WC	0	NA	0
EXCPTWGW	WC	NA	NA	0
EXCWGW	CPTWG	0	0	0
EXCWGW	CPTWG	NA	NA	0
EXDEPRALL	WC	0	0	0
EXDEPRALL	WC	NA	NA	0
EXFADWC	WC	0	0	0
EXFADWC	WC	NA	NA	0
EXFGRRMSHD	AKWC	0	NA	0
EXFGRRMSHD	AKWC	NA	NA	0
EXFGRRMWC	WC	0	NA	0
EXFGRRMWC	WC	NA	NA	0
EXFLLUBWC	WC	0	NA	0
EXFLLUBWC	WC	NA	NA	0
EXFOODWC	WC	0	0	0
EXFOODWC	WC	NA	NA	0
EXFRGTWC	WC	0	0	0
EXFRGTWC	WC	NA	NA	0
EXICEWC	WC	0	0	0
EXICEWC	WC	NA	NA	0
EXINSEQALL	WC	0	0	0
EXINSEQALL	WC	NA	NA	0
EXLEPLSFG	NOVALIDATION	0	0	NA
EXLEPLSFG	NOVALIDATION	NA	NA	NA
EXLEPLSTWL	NOVALIDATION	0	0	NA

EXLEPLSTWL	NOVALIDATION	NA	NA	NA
EXLEPPUFG	NOVALIDATION	0	0	NA
EXLEPPUFG	NOVALIDATION	NA	NA	NA
EXLEPPUTWL	NOVALIDATION	0	0	NA
EXLEPPUTWL	NOVALIDATION	NA	NA	NA
EXLICFEESWC	WC	0	NA	0
EXLICFEESWC	WC	NA	NA	0
EXMOORALL	NOVALIDATION	0	0	NA
EXMOORALL	NOVALIDATION	NA	NA	NA
EXOBSWC	WC	0	NA	0
EXOBSWC	WC	NA	NA	0
EXOFFLOADWC	NOVALIDATION	0	0	NA
EXOFFLOADWC	NOVALIDATION	NA	NA	NA
EXONBQRMALL	NOVALIDATION	0	0	0
EXONBQRMALL	NOVALIDATION	NA	NA	0
EXOTHRSUPPWC	WC	0	0	0
EXOTHRSUPPWC	WC	NA	NA	0
EXPQRMALL	PROC	0	0	0
EXPQRMALL	PROC	NA	NA	0
EXQPLS	NOVALIDATION	0	0	NA
EXQPLS	NOVALIDATION	NA	NA	NA
EXQPPU	NOVALIDATION	0	0	NA
EXQPPU	NOVALIDATION	NA	NA	NA
EXQSLS	NOVALIDATION	0	0	NA
EXQSLS	NOVALIDATION	NA	NA	NA
EXQSPU	NOVALIDATION	0	0	NA
EXQSPU	NOVALIDATION	NA	NA	NA
EXTRAVWC	WC	0	0	0
EXTRAVWC	WC	NA	NA	0
EXTRUCKWC	WC	0	0	0
EXTRUCKWC	WC	NA	NA	0
EXVSSLSALL	LESSEE	0	NA	0

EXVSSLSALL	LESSEE	NA	NA	0
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Table F.5: Rules for handling NAs and zeroes in catcher vessel data: total fuel use on the West Coast.

VARIABLE	VALIDATION CHECK	RAW RESPONSE	TRUE	FALSE
FLDSL	WC	0	NA	0
FLDSL	WC	NA	NA	0
FLOTHR	NOVALIDATION	0	0	NA
FLOTHR	NOVALIDATION	NA	0	NA

Table F.6: Rules for handling NAs and zeroes in catcher vessel data: average crew size, average fuel use, and average speed.

VARIABLE	VALIDATION CHECK	RAW RESPONSE	TRUE	FALSE
RUCWCRAB	CRAB	0	0	NA
RUCWCRAB	CRAB	NA	NA	NA
RUCWGRNDFG	GRNDFG	0	0	NA
RUCWGRNDFG	GRNDFG	NA	NA	NA
RUCWGRNDTWL	GRNDTWL	0	0	NA
RUCWGRNDTWL	GRNDTWL	NA	NA	NA
RUCWHLB	HLB	0	0	NA
RUCWHLB	HLB	NA	NA	NA
RUCWPWHT	PWHT	0	0	NA
RUCWPWHT	PWHT	NA	NA	NA
RUCWSAMN	SAMN	0	0	NA
RUCWSAMN	SAMN	NA	NA	NA
RUCWSRMP	SRMP	0	0	NA
RUCWSRMP	SRMP	NA	NA	NA
RUCWSTMAKWC	AKTRP	0	0	NA
RUCWSTMAKWC	AKTRP	NA	NA	NA
RUCWTUNA	HMSP	0	0	NA
RUCWTUNA	HMSP	NA	NA	NA
RUFLCRAB	NOVALIDATION	0	NA	NA

RUFLCRAB	NOVALIDATION	NA	NA	NA
RUFLGRNDFG	NOVALIDATION	0	NA	NA
RUFLGRNDFG	NOVALIDATION	NA	NA	NA
RUFLGRNDTWL	NOVALIDATION	0	NA	NA
RUFLGRNDTWL	NOVALIDATION	NA	NA	NA
RUFLHLB	NOVALIDATION	0	NA	NA
RUFLHLB	NOVALIDATION	NA	NA	NA
RUFLPWHT	NOVALIDATION	0	NA	NA
RUFLPWHT	NOVALIDATION	NA	NA	NA
RUFLSAMN	NOVALIDATION	0	NA	NA
RUFLSAMN	NOVALIDATION	NA	NA	NA
RUFLSRMP	NOVALIDATION	0	NA	NA
RUFLSRMP	NOVALIDATION	NA	NA	NA
RUFLSTMAKWC	NOVALIDATION	0	NA	NA
RUFLSTMAKWC	NOVALIDATION	NA	NA	NA
RUFLTUNA	NOVALIDATION	0	NA	NA
RUFLTUNA	NOVALIDATION	NA	NA	NA
RUSPDGRNDTWL	NOVALIDATION	0	NA	NA
RUSPDGRNDTWL	NOVALIDATION	NA	NA	NA
RUSPDPWHT	NOVALIDATION	0	NA	NA
RUSPDPWHT	NOVALIDATION	NA	NA	NA
RUSPDSAMN	NOVALIDATION	0	NA	NA
RUSPDSAMN	NOVALIDATION	NA	NA	NA
RUSPDSRMP	NOVALIDATION	0	NA	NA
RUSPDSRMP	NOVALIDATION	NA	NA	NA
RUSPDSTMAKWC	NOVALIDATION	0	NA	NA
RUSPDSTMAKWC	NOVALIDATION	NA	NA	NA
RUSPDTUNA	NOVALIDATION	0	NA	NA
RUSPDTUNA	NOVALIDATION	NA	NA	NA

Table F.7: Rules for handling NAs and zeroes in catcher vessel data: annual earnings.

VARIABLE	VALIDATION CHECK	RAW RESPONSE	TRUE	FALSE
RVCHTR	LESSOR	0	NA	0
RVCHTR	LESSOR	NA	NA	0
RVDELATSEA	NORPAC	0	NA	0
RVDELATSEA	NORPAC	NA	NA	0
RVDSTER	NOVALIDATION	0	0	NA
RVDSTER	NOVALIDATION	NA	NA	NA
RVLANDDELAK	AK	0	NA	0
RVLANDDELAK	AK	NA	NA	0
RVLEPLS	NOVALIDATION	0	0	NA
RVLEPLS	NOVALIDATION	NA	0	NA
RVLEPSL	NOVALIDATION	0	0	NA
RVLEPSL	NOVALIDATION	NA	0	NA
RVOTHR	NOVALIDATION	0	0	NA
RVOTHR	NOVALIDATION	NA	0	NA
RVPRMTLS	NOVALIDATION	0	0	NA
RVPRMTLS	NOVALIDATION	NA	0	NA
RVPRMTSL	NOVALIDATION	0	0	NA
RVPRMTSL	NOVALIDATION	NA	0	NA
RVQPLS	NOVALIDATION	0	0	NA
RVQPLS	NOVALIDATION	NA	0	NA
RVQPSL	NOVALIDATION	0	0	NA
RVQPSL	NOVALIDATION	NA	0	NA
RVQSLS	NOVALIDATION	0	0	NA
RVQSLS	NOVALIDATION	NA	0	NA
RVQSSL	NOVALIDATION	0	0	NA
RVQSSL	NOVALIDATION	NA	0	NA

Table F.8: Rules for handling NAs and zeroes in catcher vessel data: vessel valuation information.

VARIABLE	VALIDATION CHECK	RAW RESPONSE	TRUE	FALSE
VVGEAR	NOVALIDATION	0	NA	NA
VVGEAR	NOVALIDATION	NA	NA	NA
VVMRK	NOVALIDATION	0	NA	NA
VVMRK	NOVALIDATION	NA	NA	NA
VVPRMT	NOVALIDATION	0	NA	NA
VVPRMT	NOVALIDATION	NA	NA	NA
VVQTA	NOVALIDATION	0	NA	NA
VVQTA	NOVALIDATION	NA	NA	NA
VVRPL	NOVALIDATION	0	NA	NA
VVRPL	NOVALIDATION	NA	NA	NA
VVYY	NOVALIDATION	0	NA	NA
VVYY	NOVALIDATION	NA	NA	NA

Table F.9: Rules for handling NAs and zeroes in catcher vessel data: weight of fish landed in Alaska.

VARIABLE	VALIDATION CHECK	RAW RESPONSE	TRUE	FALSE
WTAK	AK	0	NA	0
WTAK	AK	NA	NA	0

F.1.2 Validation check descriptions

Table F.10: Description of validation checks used on catcher vessel data for determining whether an NA or zero should be an NA or a zero.

VALIDATION	DESCRIPTION
AK	The vessel fished in Alaska according to AKFIN (or catcher-processor/mothership form DAS)

AKTRP	The vessel fished in Alaska according to AKFIN and fished on the West Coast according to fish ticket data and/or the number of one-way trips to Alaska recorded on the form is greater than zero, for motherships and catcher-processors, DAS given for Alaska is greater than zero and NORPAC indicates vessel fished and processed the West Coast
AKWC	The catcher vessel fished in Alaska according to AKFIN and fished on the West Coast according to fish ticket data. For motherships and catcher-processors, DAS given for Alaska is greater than zero and NORPAC indicates vessel fished and processed the West Coast
BAIT	The vessel fished on the West Coast according to fish ticket data in a fishery that requires bait
CPTWG	The vessel fished on the West Coast according to fish ticket data and there were crew onboard and the captain wages field is not NA or zero
CRAB	The vessel participated in the crab fishery according to fish ticket data
EQUIP	The vessel provided information about any of the following on their form: capitalized expenditures or expenses on all on-board and vessel equipment, fishing gear only used on the West Coast and or fishing gear shared between the West Coast and other fisheries, or they didn't fish on the West Coast according to fish ticket data
GRNDFG	The vessel participated in the fixed gear groundfish fishery according to fish ticket data
GRNDTWL	The vessel participated in the trawl groundfish fishery according to fish ticket data
HCPT	The vessel was operated by hired captain
HLB	The vessel participated in the halibut fishery according to fish ticket data
HMSP	The vessel participated in the tuna fishery according to fish ticket data
LESSEE	The survey participant is the lessee of the vessel
LESSOR	The vessel is being filled out by a vessel owner who leased the vessel
NORPAC	The vessel delivered at-sea according to NORPAC
NOVALIDATION	There are no validation checks for this response
OONB	The vessel was operated by the owner

PQUIP	The vessel provided information about any of the following on their form: capitalized expenditures on processing equipment shared between the West Coast and Other fisheries or used only on the West Coast or all expenses on processing equipment, or according to information provided on the form, the vessel did not process or head and gut any fish on-board on the West Coast
PROC	The vessel processed at-sea according to information provided on form
PWHT	The vessel participated in the Pacific whiting fishery according to fish ticket data
SAMN	The vessel participated in the salmon fishery according to fish ticket data
SRMP	The vessel participated in the shrimp fishery according to fish ticket data
WC	The vessel fished on the West Coast according to fish ticket data, for motherships and catcher-processors the vessel fished or processed in the West Coast whiting fishery according to NORPAC data
WCGRND	The vessel participated in the West Coast groundfish fishery

F.1.3 Variable descriptions

Table F.11: Description of catcher vessel variables to which validation checks were applied.

FULLCODE	DESCRIPTION
CXFGRSHD	Capitalized expenditures on fishing gear shared between the West Coast and other fisheries
CXFGRWC	Capitalized expenditures on fishing gear used only on the West Coast
CXONBQALL	Capitalized expenditures on vessel and on-board equipment in all fisheries
CXPQSHD	Capitalized expenditures on processing equipment shared between the West Coast and other fisheries
CXPQWC	Capitalized expenditures on processing equipment used only on the West Coast
DASCHTR	Days at sea - chartering or research
DASCRAB	Days at sea - crab
DASFSAK	Days at sea - fishing in Alaska
DASFSAKOTHR	Days at sea - fishing in Alaska or other fisheries
DASGRNDFG	Days at sea - groundfish with fixed gear

DASGRNDTWL	Days at sea - groundfish with trawl gear
DASHLB	Days at sea - halibut
DASOTHRWC	Days at sea - fishing in other West Coast Fisheries
DASPWHT	Days at sea - Pacific whiting
DASSAMN	Days at sea - salmon
DASSRMP	Days at sea - shrimp
DASSTMAKWC	Days at sea - steaming between West Coast and Alaska
DASTUNA	Days at sea - tuna
EXBAITWC	Expenses on bait on the West Coast
EXCOMMWC	Expenses on communication on the West Coast
EXCPTWGW	Expenses on captain wages on the West Coast
EXCWWGWC	Expenses on crew wages on the West Coast
EXDEPRALL	Depreciation
EXFADWC	Expenses on fishing association dues on the West Coast
EXFGRRMSHD	Expenses on fishing gear repair and maintenance shared between the West Coast and other fisheries
EXFGRRMWC	Expenses on fishing gear repair and maintenance used only on the West Coast
EXFLLUBWC	Expenses on fuel and lubrication on the West Coast
EXFOODWC	Expenses on food on the West Coast
EXFRGTWC	Expenses on freight on the West Coast
EXICEWC	Expenses on ice on the West Coast
EXINSEQALL	Expenses on insurance premium payments (hull and machinery, protection and indemnity, and pollution insurance)
EXLEPLSFG	Expenses on lease of fixed gear limited entry permit
EXLEPLSTWL	Expenses on lease of trawl limited entry permit
EXLEPPUFG	Expenses on purchase of fixed gear limited entry permit
EXLEPPUTWL	Expenses on purchase of trawl limited entry permit
EXLICFEESWC	Expenses on license fees on the West Coast
EXMOORALL	Expenses on moorage
EXOBSWC	Expenses on observers on the West Coast
EXOFFLOADWC	Expenses on offloading on the West Coast
EXONBQRMALL	Expenses on vessel and on-board equipment

EXOTHRSUPPWC	Expenses on supplies on the West Coast
EXPQRMALL	Expenses on processing equipment shared between the West Coast and Alaska
EXQPLS	Expenses on lease of quota pounds
EXQPPU	Expenses on purchase of quota pounds
EXQSLS	Expenses on lease of quota shares
EXQSPU	Expenses on purchase of quota shares
EXTRAVWC	Expenses on travel on the West Coast
EXTRUCKWC	Expenses on trucking of fish on the West Coast
EXVSSLSALL	Expenses on lease of vessel
FLDSL	Total diesel
FLOTHR	Other fuel use on West Coast
RUCWCRAB	Number of crew - crab
RUCWGRNDFG	Number of crew - groundfish with fixed gear
RUCWGRNDTWL	Number of crew - groundfish with trawl gear
RUCWHLB	Number of crew - halibut
RUCWPWHT	Number of crew - Pacific whiting
RUCWSAMN	Number of crew - Salmon
RUCWSRMP	Number of crew - Shrimp
RUCWSTMAKWC	Number of crew - steaming between West Coast and Alaska
RUCWTUNA	Number of crew - tuna
RUFLCRAB	Average fuel use - crab
RUFLGRNDFG	Average fuel use - groundfish with fixed gear
RUFLGRNDTWL	Average fuel use - groundfish with trawl gear
RUFLHLB	Average fuel use - halibut
RUFLPWHT	Average fuel use - Pacific whiting
RUFLSAMN	Average fuel use - salmon
RUFLSRMP	Average fuel use - shrimp
RUFLSTMAKWC	Average fuel use - steaming between West Coast and Alaska
RUFLTUNA	Average fuel use - tuna
RUSPDGRNDTWL	Average speed - groundfish with trawl gear
RUSPDPWHT	Average speed - Pacific whiting
RUSPDSAMN	Average speed - salmon

RUSPDSRMP	Average speed - shrimp
RUSPDSTMAKWC	Average speed - steaming between West Coast and Alaska
RUSPDTUNA	Average speed - tuna
RVCHTR	Revenue from chartering or leasing the vessel
RVDELATSEA	Revenue from deliveries at sea
RVDSTER	Revenue from salmon disaster payments
RVLANDDELAK	Revenue from Alaska shoreside landings and at-sea deliveries
RVLEPLS	Revenue from lease of limited entry permit
RVLEPSL	Revenue from sale of limited entry permit
RVOTHR	Revenue from other
RVPRMTLS	Revenue from lease of other permits
RVPRMTSL	Revenue from sale of other permits
RVQPLS	Revenue from lease of quota pounds
RVQPSL	Revenue from sale of quota pounds
RVQSLS	Revenue from lease of quota shares
RVQSSL	Revenue from sale of quota shares
SHRPCPTHcpt	Hired captain - captain share
SHRPCPTOONB	Owner on board - captain share
SHRPCWHcpt	Hired captain - crew share
SHRPCWOONB	Owner on board - crew share
SHRPOONB	Percentage of trips vessel owner served as captain
SHRPOTHRcpt1	Hired captain - other share
SHRPOTHRcpt2	Hired captain - other share
SHRPOTHROONB1	Owner on board - other share
SHRPOTHROONB2	Owner on board - other share
SHRPVSSHcpt	Hired captain - vessel share
SHRPVSSOONB	Owner on board - vessel share
TRPSAK	One-way trips to Alaska
VVGEAR	Includes value of gear
VVMRK	Market value
VVPRMT	Includes value of permits
VVQTA	Includes value of quota

VVRPL	Replacement value
VVYY	Year of valuation
WTAK	Total round weight of all fish purchased or caught in Alaska

F.2 Catcher-processors

F.2.1 Tables of rules for handling NAs and zeroes

Table F.12: Rules for handling NAs and zeroes in catcher processor data: capitalized expenditures.

VARIABLE	VALIDATION CHECK	RAW RESPONSE	TRUE	FALSE
CXFGRSHD	AK	0	NA	0
CXFGRSHD	AK	NA	NA	0
CXFGRWC	WC	0	NA	0
CXFGRWC	WC	NA	NA	0
CXONBQALL	NOVALIDATION	0	NA	NA
CXONBQALL	NOVALIDATION	NA	NA	NA
CXPQSHD	NOVALIDATION	0	NA	NA
CXPQSHD	NOVALIDATION	NA	NA	NA
CXPQWC	NOVALIDATION	0	NA	NA
CXPQWC	NOVALIDATION	NA	NA	NA

Table F.13: Rules for handling NAs and zeroes in catcher processor data: days at sea.

VARIABLE	VALIDATION CHECK	RAW RESPONSE	TRUE	FALSE
DASFPWC	WC	0	NA	0
DASFPWC	WC	NA	NA	0
DASFSHAK	NOVALIDATION	0	NA	NA
DASFSHAK	NOVALIDATION	NA	NA	NA
DASOFFWC	NOVALIDATION	0	NA	NA
DASOFFWC	NOVALIDATION	NA	NA	NA
DASSTMAKWC	AKTRP	0	NA	0
DASSTMAKWC	AKTRP	NA	NA	0
DASSTMWC	WC	0	NA	0
DASSTMWC	WC	NA	NA	0

Table F.14: Rules for handling NAs and zeroes in catcher processor data: expenses.

VARIABLE	VALIDATION CHECK	RAW RESPONSE	TRUE	FALSE
EXADTVSWC	NOVALIDATION	0	NA	NA
EXADTVSWC	NOVALIDATION	NA	NA	NA
EXCOMMWC	WC	0	NA	0
EXCOMMWC	WC	NA	NA	0
EXCOOPSHLS	NOVALIDATION	0	NA	NA
EXCOOPSHLS	NOVALIDATION	NA	NA	NA
EXCOOPSHPU	NOVALIDATION	0	NA	NA
EXCOOPSHPU	NOVALIDATION	NA	NA	NA
EXCOOPWC	NOVALIDATION	0	NA	NA
EXCOOPWC	NOVALIDATION	NA	NA	NA
EXCWWGNPRWC	WC	0	NA	0
EXCWWGNPRWC	WC	NA	NA	0
EXCWWGPRCWC	WC	0	NA	0
EXCWWGPRCWC	WC	NA	NA	0
EXDEPRALL	WC	0	NA	0
EXDEPRALL	WC	NA	NA	0
EXFGRRMSHD	AK	0	NA	0
EXFGRRMSHD	AK	NA	NA	0
EXFGRRMWC	WC	0	NA	0
EXFGRRMWC	WC	NA	NA	0
EXFLLUBWC	WC	0	NA	0
EXFLLUBWC	WC	NA	NA	0
EXFOODWC	WC	0	NA	0
EXFOODWC	WC	NA	NA	0
EXFRGTWC	WC	0	NA	0
EXFRGTWC	WC	NA	NA	0
EXINSEQALL	NOVALIDATION	0	NA	NA
EXINSEQALL	NOVALIDATION	NA	NA	NA
EXINSPRODWC	NOVALIDATION	0	NA	NA

EXINSPRODWC	NOVALIDATION	NA	NA	NA
EXLEPLS	LEASE	0	NA	0
EXLEPLS	LEASE	NA	NA	0
EXLEPPU	NOVALIDATION	0	NA	NA
EXLEPPU	NOVALIDATION	NA	NA	NA
EXMOORALL	NOVALIDATION	0	NA	NA
EXMOORALL	NOVALIDATION	NA	NA	NA
EXMSCWC	NOVALIDATION	0	NA	NA
EXMSCWC	NOVALIDATION	NA	NA	NA
EXOBSWC	WC	0	NA	0
EXOBSWC	WC	NA	NA	0
EXOFFLOADWC	WC	0	NA	0
EXOFFLOADWC	WC	NA	NA	0
EXONBQRMALL	NOVALIDATION	0	NA	NA
EXONBQRMALL	NOVALIDATION	NA	NA	NA
EXOTHRSUPPWC	WC	0	NA	0
EXOTHRSUPPWC	WC	NA	NA	0
EXPKGWC	NOVALIDATION	0	NA	NA
EXPKGWC	NOVALIDATION	NA	NA	NA
EXPQRMALL	NOVALIDATION	0	NA	NA
EXPQRMALL	NOVALIDATION	NA	NA	NA
EXSEASTATEWC	NOVALIDATION	0	NA	NA
EXSEASTATEWC	NOVALIDATION	NA	NA	NA
EXTRAVWC	WC	0	NA	0
EXTRAVWC	WC	NA	NA	0
EXVSSLSALL	LESSEE	0	NA	0
EXVSSLSALL	LESSEE	NA	NA	0

Table F.15: Rules for handling NAs and zeroes in catcher processor data: total fuel use on the West Coast.

VARIABLE	VALIDATION CHECK	RAW RESPONSE	TRUE	FALSE
FLBUNK	NOVALIDATION	0	0	NA
FLBUNK	NOVALIDATION	NA	0	NA
FLDSL	WC	0	NA	0
FLDSL	WC	NA	NA	0
FLFOIL	NOVALIDATION	0	NA	NA
FLFOIL	NOVALIDATION	NA	0	NA

Table F.16: Rules for handling NAs and zeroes in catcher processor data: average crew size, average fuel use, and average speed.

VARIABLE	VALIDATION CHECK	RAW RESPONSE	TRUE	FALSE
RUCWNPR	WC	0	NA	NA
RUCWNPR	WC	NA	NA	NA
RUCWPRC	WC	0	NA	NA
RUCWPRC	WC	NA	NA	NA
RUFLFPS	NOVALIDATION	0	NA	NA
RUFLFPS	NOVALIDATION	NA	NA	NA
RUFLSTMAKWC	NOVALIDATION	0	NA	NA
RUFLSTMAKWC	NOVALIDATION	NA	NA	NA

Table F.17: Rules for handling NAs and zeroes in catcher processor data: annual earnings.

VARIABLE	VALIDATION CHECK	RAW RESPONSE	TRUE	FALSE
RVCHTR	LESSOR	0	NA	0
RVCHTR	LESSOR	NA	NA	0
RVCOOPSHLS	NOVALIDATION	0	NA	NA
RVCOOPSHLS	NOVALIDATION	NA	NA	NA
RVCOOPSHSL	NOVALIDATION	0	NA	NA
RVCOOPSHSL	NOVALIDATION	NA	NA	NA
RVLEPLS	NOVALIDATION	0	NA	NA
RVLEPLS	NOVALIDATION	NA	0	NA
RVLEPSL	NOVALIDATION	0	NA	NA
RVLEPSL	NOVALIDATION	NA	0	NA
RVVALOTHR	WC	0	NA	0
RVVALOTHR	WC	NA	NA	0
RVVALPWHTFILL	FILLET	0	NA	0
RVVALPWHTFILL	FILLET	NA	NA	0
RVVALPWHTFML	FISHMEAL	0	NA	0
RVVALPWHTFML	FISHMEAL	NA	NA	0
RVVALPWHTFOIL	FISHOIL	0	NA	0
RVVALPWHTFOIL	FISHOIL	NA	NA	0
RVVALPWHTHG	HGUT	0	NA	0
RVVALPWHTHG	HGUT	NA	NA	0
RVVALPWHTMINC	MINCED	0	NA	0
RVVALPWHTMINC	MINCED	NA	NA	0
RVVALPWHTOTHR	OTHERWHT	0	NA	0
RVVALPWHTOTHR	OTHERWHT	NA	NA	0
RVVALPWHTTRND	ROUND	0	NA	0
RVVALPWHTTRND	ROUND	NA	NA	0
RVVALPWHTROE	ROE	0	NA	0
RVVALPWHTROE	ROE	NA	NA	0
RVVALPWHTSTOM	STOMACH	0	NA	0
RVVALPWHTSTOM	STOMACH	NA	NA	0
RVVALPWHTSURI	SURIMI	0	NA	0
RVVALPWHTSURI	SURIMI	NA	NA	0
RVWTOTHR	OTHERSP	0	NA	0

Table F.18: Rules for handling NAs and zeroes in catcher processor data: vessel valuation information.

VARIABLE	VALIDATION CHECK	RAW RESPONSE	TRUE	FALSE
VVGEAR	NOVALIDATION	0	NA	NA
VVGEAR	NOVALIDATION	NA	NA	NA
VVMRK	NOVALIDATION	0	NA	NA
VVMRK	NOVALIDATION	NA	NA	NA
VVPRMT	NOVALIDATION	0	NA	NA
VVPRMT	NOVALIDATION	NA	NA	NA
VVQTA	NOVALIDATION	0	NA	NA
VVQTA	NOVALIDATION	NA	NA	NA
VVRPL	NOVALIDATION	0	NA	NA
VVRPL	NOVALIDATION	NA	NA	NA
VVYY	NOVALIDATION	0	NA	NA
VVYY	NOVALIDATION	NA	NA	NA

Table F.19: Rules for handling NAs and zeroes in catcher processor data: weight of fish landed in Alaska.

VARIABLE	VALIDATION CHECK	RAW RESPONSE	TRUE	FALSE
WTALL	WC	0	NA	NA
WTALL	WC	NA	NA	NA

F.2.2 Validation check descriptions

Table F.20: Description of validation checks used on catcher-processor data for determining whether an NA or zero should be an NA or a zero.

VALIDATION	DESCRIPTION
AK	The vessel fished in Alaska according to AKFIN (or catcher-processor/mothership form DAS)

AKTRP	The vessel fished in Alaska according to AKFIN and fished on the West Coast according to fish ticket data and/or the number of one-way trips to Alaska recorded on the form is greater than zero, for motherships and catcher-processors, DAS given for Alaska is greater than zero and NORPAC indicates vessel fished and processed the West Coast
AKWC	The catcher vessel fished in Alaska according to AKFIN and fished on the West Coast according to fish ticket data. For motherships and catcher-processors, DAS given for Alaska is greater than zero and NORPAC indicates vessel fished and processed the West Coast
EQUIP	The vessel provided information about any of the following on their form: capitalized expenditures or expenses on all on-board and vessel equipment, fishing gear only used on the West Coast and or fishing gear shared between the West Coast and other fisheries, or they didn't fish on the West Coast according to fish ticket data
EXTRAHWTLBS	Purchased weight recorded on form accounts for all pounds received by the vessel according to NORPAC
FILLET	Production weight or production value of product type recorded on form are greater than zero
FISHMEAL	Production weight or production value of product type recorded on form are greater than zero
FISHOIL	Production weight or production value of fish oil recorded on form are greater than zero
HAULOUT	The vessel was hauled out according to form response
HGUT	Production weight or production value of product type recorded on form are greater than zero
LESSEE	The survey participant is the lessee of the vessel
LESSOR	The vessel is being filled out by a vessel owner who leased the vessel
MINCED	Production weight or production value of minced production recorded on form are greater than zero
NOVALIDATION	There are no validation checks for this response
OTHERSP	Production weight or production value of product type are greater than zero
OTHERWHT	Production weight or production value of other whiting product recorded on form are greater than zero
PORT	Percentage of total off-load value by location sums to 100
ROE	Production weight or production value of roe production recorded on form are greater than zero

ROUND	Production weight or production value of round production recorded on form are greater than zero
STOMACH	Production weight or production value of stomach production recorded on form are greater than zero.
SURIMI	Production weight or production value of surimi production recorded on form are greater than zero
WC	The vessel fished on the West Coast according to fish ticket data, for motherships and catcher-processors the vessel fished or processed in the West Coast whiting fishery according to NORPAC data
WHTLBS	Purchased weight or total purchase cost are greater than zero

F.2.3 Variable descriptions

Table F.21: Description of catcher-processor variables to which validation checks were applied.

FULLCODE	DESCRIPTION
CXFGRSHD	Capitalized expenditures on fishing gear shared between the West Coast and other fisheries
CXFGRWC	Capitalized expenditures on fishing gear used only on the West Coast
CXONBQALL	Capitalized expenditures on vessel and on-board equipment in all fisheries
CXPQSHD	Capitalized expenditures on processing equipment shared between the West Coast and other fisheries
CXPQWC	Capitalized expenditures on processing equipment used only on the West Coast
DASFPWC	Days at sea - fishing and processing West Coast whiting fishery
DASFSHAK	Days at sea - fishing in Alaska
DASOFFWC	Days at sea - off-loading in the West Coast whiting fishery
DASSTMAKWC	Days at sea - steaming between West Coast and Alaska
DASSTMWC	Days at sea - steaming in the West Coast whiting fishery
EXADTVSWC	Expenses on non-fish ingredients (additives) on the West Coast
EXCOMMWC	Expenses on communication on the West Coast
EXCOOPSHLS	Expenses on lease of co-op shares
EXCOOPSHPU	Expenses on purchase of co-op shares
EXCOOPWC	Expenses on co-op membership fees on the West Coast

EXCWWGNPRWC	Expenses on non-processing crew wages on the West Coast
EXCWWGPRCWC	Expenses on processing crew wages on the West Coast
EXDEPRALL	Depreciation
EXFGRRMSHD	Expenses on fishing gear repair and maintenance shared between the West Coast and other fisheries
EXFGRRMWC	Expenses on fishing gear repair and maintenance used only on the West Coast
EXFLLUBWC	Expenses on fuel and lubrication on the West Coast
EXFOODWC	Expenses on food on the West Coast
EXFRGTWC	Expenses on freight on the West Coast
EXINSEQALL	Expenses on insurance premium payments (hull and machinery, protection and indemnity, and pollution insurance)
EXINSPRODWC	Expenses on on-board cargo/product insurance on the West Coast
EXLEPLS	Expenses on lease of catcher-processor endorsed permit
EXLEPPU	Expenses on purchase of catcher-processor endorsed permit
EXMOORALL	Expenses on moorage
EXMSCWC	Expenses on Marine Stewardship Council fees on the West Coast
EXOBSWC	Expenses on observers on the West Coast
EXOFFLOADWC	Expenses on offloading on the West Coast
EXONBQRMALL	Expenses on vessel and on-board equipment
EXOTHRSUPPWC	Expenses on supplies on the West Coast
EXPKGWC	Expenses on packing materials on the West Coast
EXPQRMALL	Expenses on processing equipment shared between the West Coast and Alaska
EXSEASTATEWC	Expenses on Sea State data monitoring on the West Coast
EXTRAVWC	Expenses on travel on the West Coast
EXVSSLSALL	Expenses on lease of vessel
FLBUNK	Total bunker fuel
FLDSL	Total diesel
FLFOIL	Total fish oil
PTASTORIA	Percentage of total off-load value in Astoria
PTATSEA	Percentage of total off-load value in at-sea
PTBELL	Percentage of total off-load value in Blaine/Bellingham
PTCOOSB	Percentage of total off-load value in Coos Bay

PTOTHR	Percentage of total off-load value in Other
PTPANGL	Percentage of total off-load value in Port Angeles
PTSEA	Percentage of total off-load value in Seattle
PTTAC	Percentage of total off-load value in Tacoma
PTWESTP	Percentage of total off-load value in Westport
RUCWNPR	Number of crew - non-processing
RUCWPRC	Number of crew - processing
	Average fuel use - fishing, processing, and steaming in the West Coast whiting fishery
RUFLFPS	
RUFLSTMAKWC	Average fuel use - steaming between West Coast and Alaska
RVCHTR	Revenue from chartering or leasing the vessel
RVCOOPSHLS	Revenue from lease of co-op shares
RVCOOPSHSL	Revenue from sale of co-op shares
RVLEPLS	Revenue from lease of limited entry permit
RVLEPSL	Revenue from sale of limited entry permit
RVVALOTHR	Total value of production - Other species
RVVALPWHTFILL	Total value of production - whiting fillets
RVVALPWHTFML	Total value of production - whiting fishmeal
RVVALPWHTFOIL	Total value of production - whiting fish oil
RVVALPWHTHG	Total value of production - whiting headed and gutted
RVVALPWHTMINC	Total value of production - whiting minced
RVVALPWHTOTHR	Total value of production - whiting other
RVVALPWHTRND	Total value of production - whiting round (unprocessed)
RVVALPWHTROE	Total value of production - whiting roe
RVVALPWHTSTOM	Total value of production - whiting stomachs
RVVALPWHTSURI	Total value of production - whiting surimi
RVWTOTHR	Total weight of production - Other species
RVWTPWHTFILL	Total weight of production - whiting fillets
RVWTPWHTFML	Total weight of production - whiting fishmeal
RVWTPWHTFOIL	Total weight of production - whiting fish oil
RVWTPWHTHG	Total weight of production - whiting headed and gutted
RVWTPWHTMINC	Total weight of production - whiting minced

RVWTPWHTOTHR	Total weight of production - whiting other
RVWTPWHTRND	Total weight of production - whiting round
RVWTPWHTROE	Total weight of production - whiting roe
RVWTPWHTSTOM	Total weight of production - whiting stomachs
RVWTPWHTSURI	Total weight of production - whiting surimi
TRPSAK	One-way trips to Alaska
VVGEAR	Includes value of gear
VVMRK	Market value
VVPRMT	Includes value of permits
VVQTA	Includes value of quota
VVRPL	Replacement value
VVYY	Year of valuation
WTALL	Total round weight of all fish processed in all fisheries

F.3 Motherships

F.3.1 Tables of rules for handling NAs and zeroes

Table F.22: Rules for handling NAs and zeroes in mothership data: capitalized expenditures.

VARIABLE	VALIDATION CHECK	RAW RESPONSE	TRUE	FALSE
CXFGRSHD	AK	0	NA	0
CXFGRSHD	AK	NA	NA	0
CXFGRWC	WC	0	0	0
CXFGRWC	WC	NA	NA	0
CXONBQALL	NOVALIDATION	0	0	NA
CXONBQALL	NOVALIDATION	NA	NA	NA
CXPQSHD	NOVALIDATION	0	0	NA
CXPQSHD	NOVALIDATION	NA	NA	NA
CXPQWC	NOVALIDATION	0	0	NA
CXPQWC	NOVALIDATION	NA	NA	NA

Table F.23: Rules for handling NAs and zeroes in mothership data: days at sea.

VARIABLE	VALIDATION CHECK	RAW RESPONSE	TRUE	FALSE
DASFSHAK	NOVALIDATION	0	0	NA
DASFSHAK	NOVALIDATION	NA	NA	NA
DASOFFWC	NOVALIDATION	0	0	NA
DASOFFWC	NOVALIDATION	NA	NA	NA
DASPRCWC	WC	0	0	0
DASPRCWC	WC	NA	NA	0
DASSTMAKWC	AKTRP	0	0	0
DASSTMAKWC	AKTRP	NA	NA	0
DASSTMWC	WC	0	0	0
DASSTMWC	WC	NA	NA	0

Table F.24: Rules for handling NAs and zeroes in mothership data: expenses.

VARIABLE	VALIDATION CHECK	RAW RESPONSE	TRUE	FALSE
EXADTVSWC	NOVALIDATION	0	0	NA
EXADTVSWC	NOVALIDATION	NA	NA	NA
EXCOMMWC	WC	0	0	0
EXCOMMWC	WC	NA	NA	0
EXCOOPWC	NOVALIDATION	0	0	NA
EXCOOPWC	NOVALIDATION	NA	NA	NA
EXCOSTWCOTHR	WC	0	0	0
EXCOSTWCOTHR	WC	NA	NA	0
EXCOSTWCPWHT	WC	0	0	0
EXCOSTWCPWHT	WC	NA	NA	0
EXCWWGNPRWC	WC	0	0	0
EXCWWGNPRWC	WC	NA	NA	0
EXCWWGPRCWC	WC	0	0	0
EXCWWGPRCWC	WC	NA	NA	0
EXDEPRALL	WC	0	0	0
EXDEPRALL	WC	NA	NA	0
EXFGRRMSHD	AK	0	NA	0
EXFGRRMSHD	AK	NA	NA	0
EXFGRRMWC	WC	0	0	0
EXFGRRMWC	WC	NA	NA	0
EXFLLUBWC	WC	0	0	0
EXFLLUBWC	WC	NA	NA	0
EXFOODWC	WC	0	0	0
EXFOODWC	WC	NA	NA	0
EXFRGTWC	WC	0	0	0
EXFRGTWC	WC	NA	NA	0
EXINSEQALL	NOVALIDATION	0	0	NA
EXINSEQALL	NOVALIDATION	NA	NA	NA
EXINSPRODWC	NOVALIDATION	0	0	NA

EXINSPRODWC	NOVALIDATION	NA	NA	NA
EXMOORALL	NOVALIDATION	0	0	NA
EXMOORALL	NOVALIDATION	NA	NA	NA
EXMSPLS	NOVALIDATION	0	0	NA
EXMSPLS	NOVALIDATION	NA	NA	NA
EXMSPPU	NOVALIDATION	0	0	NA
EXMSPPU	NOVALIDATION	NA	NA	NA
EXOBSWC	WC	0	0	0
EXOBSWC	WC	NA	NA	0
EXOFFLOADWC	WC	0	0	0
EXOFFLOADWC	WC	NA	NA	0
EXONBQRMALL	NOVALIDATION	0	0	NA
EXONBQRMALL	NOVALIDATION	NA	NA	NA
EXOTHRSUPPWC	WC	0	0	0
EXOTHRSUPPWC	WC	NA	NA	0
EXPKGWC	NOVALIDATION	0	0	NA
EXPKGWC	NOVALIDATION	NA	NA	NA
EXPQRMALL	NOVALIDATION	0	0	NA
EXPQRMALL	NOVALIDATION	NA	NA	NA
EXTRAVWC	WC	0	0	0
EXTRAVWC	WC	NA	NA	0
EXVSSLSALL	LESSEE	0	NA	0
EXVSSLSALL	LESSEE	NA	NA	0
EXWTPWCOTHR	OTHERLBS	0	NA	0
EXWTPWCOTHR	OTHERLBS	NA	NA	0
EXWTPWCPWHT	WHTLBS	0	NA	0
EXWTPWCPWHT	WHTLBS	NA	NA	0
EXWTRWCOTHR	EXTRAOTHERLBS	0	NA	0
EXWTRWCOTHR	EXTRAOTHERLBS	NA	NA	0
EXWTRWCPWHT	EXTRAHTLBS	0	NA	0
EXWTRWCPWHT	EXTRAHTLBS	NA	NA	0

Table F.25: Rules for handling NAs and zeroes in mothership data: total fuel use on the West Coast.

VARIABLE	VALIDATION CHECK	RAW RESPONSE	TRUE	FALSE
FLBUNK	NOVALIDATION	0	NA	NA
FLBUNK	NOVALIDATION	NA	0	NA
FLDSL	WC	0	0	0
FLDSL	WC	NA	NA	0
FLFOIL	NOVALIDATION	0	NA	NA
FLFOIL	NOVALIDATION	NA	0	NA

Table F.26: Rules for handling NAs and zeroes in mothership data: average crew size, average fuel use, and average speed.

VARIABLE	VALIDATION CHECK	RAW RESPONSE	TRUE	FALSE
RUCWNPR	WC	0	NA	NA
RUCWNPR	WC	NA	NA	NA
RUCWPRC	WC	0	NA	NA
RUCWPRC	WC	NA	NA	NA
RUFLPS	NOVALIDATION	0	NA	NA
RUFLPS	NOVALIDATION	NA	NA	NA
RUFLSTMAKWC	NOVALIDATION	0	0	NA
RUFLSTMAKWC	NOVALIDATION	NA	NA	NA

Table F.27: Rules for handling NAs and zeroes in mothership data: annual earnings.

VARIABLE	VALIDATION CHECK	RAW RESPONSE	TRUE	FALSE
RVCHTR	LESSOR	0	NA	0
RVCHTR	LESSOR	NA	NA	0
RVMSPLS	NOVALIDATION	0	0	NA
RVMSPLS	NOVALIDATION	NA	NA	NA
RVMSPSL	NOVALIDATION	0	0	NA
RVMSPSL	NOVALIDATION	NA	NA	NA
RVVALOTHR	WC	0	0	0
RVVALOTHR	WC	NA	NA	0
RVVALPWHTFILL	FILLET	0	NA	0
RVVALPWHTFILL	FILLET	NA	NA	0
RVVALPWHTFML	FISHMEAL	0	NA	0
RVVALPWHTFML	FISHMEAL	NA	NA	0
RVVALPWHTFOIL	FISHOIL	0	NA	0
RVVALPWHTFOIL	FISHOIL	NA	NA	0
RVVALPWHTHG	HGUT	0	NA	0
RVVALPWHTHG	HGUT	NA	NA	0
RVVALPWHTMINC	MINCED	0	NA	0
RVVALPWHTMINC	MINCED	NA	NA	0
RVVALPWHTOTHR	OTHERWHT	0	NA	0
RVVALPWHTOTHR	OTHERWHT	NA	NA	0
RVVALPWHTTRND	ROUND	0	NA	0
RVVALPWHTTRND	ROUND	NA	NA	0
RVVALPWHTROE	ROE	0	NA	0
RVVALPWHTROE	ROE	NA	NA	0
RVVALPWHTSTOM	STOMACH	0	NA	0
RVVALPWHTSTOM	STOMACH	NA	NA	0
RVVALPWHTSURI	SURIMI	0	NA	0
RVVALPWHTSURI	SURIMI	NA	NA	0
RVWTOTHR	OTHERSP	0	NA	0
RVWTOTHR	OTHERSP	NA	NA	0
RVWTPWHTFILL	FILLET	0	NA	0
RVWTPWHTFILL	FILLET	NA	NA	0
RVWTPWHTFML	FISHMEAL	0	NA	0

Table F.28: Rules for handling NAs and zeroes in mothership data: vessel valuation information.

VARIABLE	VALIDATION CHECK	RAW RESPONSE	TRUE	FALSE
VVGEAR	NOVALIDATION	0	0	NA
VVGEAR	NOVALIDATION	NA	NA	NA
VVMRK	NOVALIDATION	0	0	NA
VVMRK	NOVALIDATION	NA	NA	NA
VVPRMT	NOVALIDATION	0	0	NA
VVPRMT	NOVALIDATION	NA	NA	NA
VVQTA	NOVALIDATION	0	0	NA
VVQTA	NOVALIDATION	NA	NA	NA
VVRPL	NOVALIDATION	0	0	NA
VVRPL	NOVALIDATION	NA	NA	NA
VVYY	NOVALIDATION	0	0	NA
VVYY	NOVALIDATION	NA	NA	NA

Table F.29: Rules for handling NAs and zeroes in mothership data: weight of fish landed in Alaska.

VARIABLE	VALIDATION CHECK	RAW RESPONSE	TRUE	FALSE
WTALL	WC	0	0	NA
WTALL	WC	NA	NA	NA

F.3.2 Validation check descriptions

Table F.30: Description of validation checks used on mothership data for determining whether an NA or zero should be an NA or a zero.

VALIDATION	DESCRIPTION
AK	The vessel fished in Alaska according to AKFIN (or catcher-processor/mothership form DAS)

AKTRP	The vessel fished in Alaska according to AKFIN and fished on the West Coast according to fish ticket data and/or the number of one-way trips to Alaska recorded on the form is greater than zero, for motherships and catcher-processors, DAS given for Alaska is greater than zero and NORPAC indicates vessel fished and processed the West Coast
AKWC	The catcher vessel fished in Alaska according to AKFIN and fished on the West Coast according to fish ticket data. For motherships and catcher-processors, DAS given for Alaska is greater than zero and NORPAC indicates vessel fished and processed the West Coast
EQUIP	The vessel provided information about any of the following on their form: capitalized expenditures or expenses on all on-board and vessel equipment, fishing gear only used on the West Coast and or fishing gear shared between the West Coast and other fisheries, or they didn't fish on the West Coast according to fish ticket data
EXTRAHWTLBS	Purchased weight recorded on form accounts for all pounds received by the vessel according to NORPAC
FILLET	Production weight or production value of product type recorded on form are greater than zero
FISHMEAL	Production weight or production value of product type recorded on form are greater than zero
FISHOIL	Production weight or production value of fish oil recorded on form are greater than zero
HAULOUT	The vessel was hauled out according to form response
HGUT	Production weight or production value of product type recorded on form are greater than zero
LESSEE	The survey participant is the lessee of the vessel
LESSOR	The vessel is being filled out by a vessel owner who leased the vessel
MINCED	Production weight or production value of minced production recorded on form are greater than zero
NOVALIDATION	There are no validation checks for this response
OTHERSP	Production weight or production value of product type are greater than zero
OTHERWHT	Production weight or production value of other whiting product recorded on form are greater than zero
PORT	Percentage of total off-load value by location sums to 100
ROE	Production weight or production value of roe production recorded on form are greater than zero

ROUND	Production weight or production value of round production recorded on form are greater than zero
STOMACH	Production weight or production value of stomach production recorded on form are greater than zero.
SURIMI	Production weight or production value of surimi production recorded on form are greater than zero
WC	The vessel fished on the West Coast according to fish ticket data, for motherships and catcher-processors the vessel fished or processed in the West Coast whiting fishery according to NORPAC data
WHTLBS	Purchased weight or total purchase cost are greater than zero

F.3.3 Variable descriptions

Table F.31: Description of mothership variables to which validation checks were applied.

FULLCODE	DESCRIPTION
CXFGRSHD	Capitalized expenditures on fishing gear shared between the West Coast and other fisheries
CXFGRWC	Capitalized expenditures on fishing gear used only on the West Coast
CXONBQALL	Capitalized expenditures on vessel and on-board equipment in all fisheries
CXPQSHD	Capitalized expenditures on processing equipment shared between the West Coast and other fisheries
CXPQWC	Capitalized expenditures on processing equipment used only on the West Coast
DASFSAK	Days at sea - fishing in Alaska
DASOFFWC	Days at sea - off-loading in the West Coast whiting fishery
DASPRCWC	Days at sea - processing in the West Coast whiting fishery
DASSTMAKWC	Days at sea - steaming between West Coast and Alaska
DASSTMWC	Days at sea - steaming in the West Coast whiting fishery
EXADTVSWC	Expenses on non-fish ingredients (additives) on the West Coast
EXCOMMWC	Expenses on communication on the West Coast
EXCOOPWC	Expenses on co-op membership fees on the West Coast
EXCOSTWCOTHR	Total cost of other fish purchased
EXCOSTWCPWHT	Total cost of whiting purchased

EXCWWGNPRWC	Expenses on non-processing crew wages on the West Coast
EXCWWGPRCWC	Expenses on processing crew wages on the West Coast
EXDEPRALL	Depreciation
EXFGRRMSHD	Expenses on fishing gear repair and maintenance shared between the West Coast and other fisheries
EXFGRRMWC	Expenses on fishing gear repair and maintenance used only on the West Coast
EXFLLUBWC	Expenses on fuel and lubrication on the West Coast
EXFOODWC	Expenses on food on the West Coast
EXFRGTWC	Expenses on freight on the West Coast
EXINSEQALL	Expenses on insurance premium payments (hull and machinery, protection and indemnity, and pollution insurance)
EXINSPRODWC	Expenses on on-board cargo/product insurance on the West Coast
EXMOORALL	Expenses on moorage
EXMSPLS	Expenses on lease of mothership permits
EXMSPPU	Expenses on purchase of mothership permits
EXOSWC	Expenses on observers on the West Coast
EXOFFLOADWC	Expenses on offloading on the West Coast
EXONBQRMALL	Expenses on vessel and on-board equipment
EXOTHRSUPPWC	Expenses on supplies on the West Coast
EXPKGWC	Expenses on packing materials on the West Coast
EXPQRMALL	Expenses on processing equipment shared between the West Coast and Alaska
EXTRAVWC	Expenses on travel on the West Coast
EXVSSLSALL	Expenses on lease of vessel
EXWTPWCOTHR	Total weight of other fish purchased
EXWTPWCPWHT	Total weight of whiting purchased
EXWTRWCOTHR	Total weight of other fish received but not paid for
EXWTRWCPWHT	Total weight of whiting received but not paid for
FLBUNK	Total bunker fuel
FLDSL	Total diesel
FLFOIL	Total fish oil
PTASTORIA	Percentage of total off-load value in Astoria
PTATSEA	Percentage of total off-load value in at-sea

PTBELL	Percentage of total off-load value in Blaine/Bellingham
PTCOOSB	Percentage of total off-load value in Coos Bay
PTOTHR	Percentage of total off-load value in Other
PTPANGL	Percentage of total off-load value in Port Angeles
PTSEA	Percentage of total off-load value in Seattle
PTTAC	Percentage of total off-load value in Tacoma
PTWESTP	Percentage of total off-load value in Westport
RUCWNPR	Number of crew - non-processing
RUCWPRC	Number of crew - processing
RUFLPS	Average fuel use - processing and steaming in the West Coast whiting fishery
RUFLSTMAKWC	Average fuel use - steaming between West Coast and Alaska
RVCHTR	Revenue from chartering or leasing the vessel
RVVALOTHR	Total value of production - Other species
RVVALPWHTFILL	Total value of production - whiting fillets
RVVALPWHTFML	Total value of production - whiting fishmeal
RVVALPWHTFOIL	Total value of production - whiting fish oil
RVVALPWHTHG	Total value of production - whiting headed and gutted
RVVALPWHTMINC	Total value of production - whiting minced
RVVALPWHTOTHR	Total value of production - whiting other
RVVALPWHTRND	Total value of production - whiting round (unprocessed)
RVVALPWHTROE	Total value of production - whiting roe
RVVALPWHTSTOM	Total value of production - whiting stomachs
RVVALPWHTSURI	Total value of production - whiting surimi
RVWTOTHR	Total weight of production - Other species
RVWTPWHTFILL	Total weight of production - whiting fillets
RVWTPWHTFML	Total weight of production - whiting fishmeal
RVWTPWHTFOIL	Total weight of production - whiting fish oil
RVWTPWHTHG	Total weight of production - whiting headed and gutted
RVWTPWHTMINC	Total weight of production - whiting minced
RVWTPWHTOTHR	Total weight of production - whiting other
RVWTPWHTRND	Total weight of production - whiting round
RVWTPWHTROE	Total weight of production - whiting roe

RVWTPWHTSTOM	Total weight of production - whiting stomachs
RVWTPWHTSURI	Total weight of production - whiting surimi
TRPSAK	One-way trips to Alaska
VVGEAR	Includes value of gear
VVMRK	Market value
VVPRMT	Includes value of permits
VVQTA	Includes value of quota
VVRPL	Replacement value
VVYY	Year of valuation
WTALL	Total round weight of all fish processed in all fisheries

F.4 First receivers

We do not currently implement any data processes on the first receiver data outside of the QA/QC described earlier.

Appendix G EDC Cover Letters for 2011 Data Collection

G.1 Catcher vessel cover letter



Economic Data Collection (FRAM Division)
National Marine Fisheries Service
Northwest Fisheries Science Center
2725 Montlake Blvd East
Seattle, WA 98112

May 9, 2012

NAME
ADDRESS_LINE_1
ADDRESS_LINE_2

Our records indicate that you are required to submit an Economic Data Collection (EDC) catcher vessel form for fiscal year 2011. Please return the enclosed form for the following vessel and permit by September 1, 2012:

Vessel Name: V_NAME
Coast Guard Vessel ID Number: VID
Federal Limited Entry Permit Number: PID

The West Coast Groundfish Trawl Catch Share Program, also known as trawl rationalization, began on January 11, 2011. Under this program, all owners, lessees, and charterers of a catcher vessel registered to a limited entry trawl endorsed permit at any time in 2011 are required to submit an EDC form (50 CFR 660.114). In order for the Northwest Region to process permit renewals, changes in vessel registration, vessel account actions, and quota pound or individual bycatch quota issuance, all of your required EDC forms must be recorded as complete by September 1, 2012.

If you completed an EDC form last year, you will notice a few changes to the form this year. The most noticeable change is that all owners of a vessel registered to a limited entry trawl endorsed permit are required to complete the entire form, regardless of whether they fished. In addition, we now ask for vessel lease dates to allow us to better match fish ticket landings to the operator of the vessel.

Tips for completing the forms:

- For your form to be recorded as complete, every question must have an answer, whether it is a number, a statement, or "NA". This means that if you do not have an answer for a specific question, you need to write "NA" in that answer box.
- To avoid delays in processing of your form, if you are filling out the form for the owner of the vessel, make sure that the name of the owner of the vessel entered on the EDC form is the same as the name of the holder of the limited entry permit attached to the vessel.

The EDC data will be used by Northwest Fisheries Science Center (NWFSC) economists to evaluate the catch share program. Aggregated data and analyses will be compiled into a report and presented to the Pacific Fishery Management Council. The data you submit through the EDC program is confidential under the Magnuson-Stevens Act and NOAA Administrative Order 216-100. The individual level data will only be studied by NMFS employees or their contractors, and everyone who works with this data is required to sign a confidentiality agreement. When reporting the data, we will combine your responses with information provided by other participants, and report it in summary form so that individual responses cannot be identified.

If you have any questions about how to complete the form or believe that you are not responsible for completing the form, please contact me. Additional information can also be found on the enclosed Frequently Asked Questions sheet, and on our website where you can also download additional forms: www.nwfsc.noaa.gov/edc.

Sincerely,

A handwritten signature in black ink that reads "Erin Steiner". The signature is written in a cursive, flowing style.

Erin Steiner
National Marine Fisheries Service
NWFSC.EDC@noaa.gov
1-866-791-3726

G.2 Catcher-processor cover letter



Economic Data Collection (FRAM Division)
National Marine Fisheries Service
Northwest Fisheries Science Center
2725 Montlake Blvd East
Seattle, WA 98112

May 2, 2012

NAME

ADDRESS_LINE_1

ADDRESS_LINE_2

Our records indicate that you are required to submit an Economic Data Collection (EDC) catcher processor questionnaire for fiscal year 2011. Please return the enclosed form for the following vessel and permit by September 1, 2012:

Vessel Name: V_NAME

Coast Guard Vessel ID Number: VID

Federal Limited Entry Permit Number: PID

The West Coast Groundfish Trawl Catch Share Program, also known as trawl rationalization, began on January 11, 2011. Under this program, all owners, lessees, and charterers of a catcher processor registered to a C/P-endorsed limited entry permit at any time in 2011 are required to submit an EDC form (50 CFR 660.114). In order for the Northwest Region to process permit renewals, changes in vessel registration, vessel account actions, and quota pound or individual bycatch quota issuance, all of your required EDC forms must be recorded as complete by September 1, 2012.

Please note that for your form to be recorded as complete, every question must have an answer, whether it is a number, a statement, or "NA". This means that if you do not have an answer for a specific question, you need to write "NA" in that answer box.

The EDC data will be used by Northwest Fisheries Science Center (NWFSC) economists to evaluate the catch share program. Aggregated data and analyses will be compiled into a report and presented to the Pacific Fishery Management Council. The data you submit through the EDC program is confidential under the Magnuson-Stevens Act and NOAA Administrative Order 216-100. The individual level data will only be studied by NMFS employees or their contractors, and everyone who works with this data is required to sign a confidentiality agreement. When reporting the data, we will combine your responses with information provided by other participants, and report it in summary form so that individual responses cannot be identified.

If you have any questions about how to complete the form or believe that you are not responsible for completing the form, please contact me. Additional information can also be found on the enclosed Frequently Asked Questions sheet, and on our website where you can also download additional forms: www.nwfsc.noaa.gov/edc.

Sincerely,

A handwritten signature in black ink that reads "Erin Steiner". The signature is written in a cursive, flowing style.

Erin Steiner
National Marine Fisheries Service
NWFSC.EDC@noaa.gov
1-866-791-3726

G.3 Mothership cover letter



Economic Data Collection (FRAM Division)
National Marine Fisheries Service
Northwest Fisheries Science Center
2725 Montlake Blvd East
Seattle, WA 98112

May 2, 2012

NAME

ADDRESS_LINE_1

ADDRESS_LINE_2

Our records indicate that you are required to submit an Economic Data Collection (EDC) mothership vessel questionnaire for fiscal year 2011. Please return the enclosed form for the following vessel and permit by September 1, 2012:

Vessel Name: V_NAME

Vessel Coast Guard ID Number: VID

Federal Mothership Permit Number: PID

The West Coast Groundfish Trawl Catch Share Program, also known as trawl rationalization, began on January 11, 2011. Under this program, all owners, lessees, and charterers of a mothership vessel registered to a mothership permit at any time in 2011 are required to submit an EDC form (50 CFR 660.114). In order for the Northwest Region to process permit renewals, changes in vessel registration, vessel account actions, and quota pound or individual bycatch quota issuance, all of your required EDC forms must be recorded as complete by September 1, 2012.

Please note that for your form to be recorded as complete, every question must have an answer, whether it is a number, a statement, or "NA". This means that if you do not have an answer for a specific question, you need to write "NA" in that answer box.

The EDC data will be used by Northwest Fisheries Science Center (NWFSC) economists to evaluate the catch share program. Aggregated data and analyses will be compiled into a report and presented to the Pacific Fishery Management Council. The data you submit through the EDC program is confidential under the Magnuson-Stevens Act and NOAA Administrative Order 216-100. The individual level data will only be studied by NMFS employees or their contractors, and everyone who works with this data is required to sign a confidentiality agreement. When reporting the data, we will combine your responses with information provided by other participants, and report it in summary form so that individual responses cannot be identified.

If you have any questions about how to complete the form or believe that you are not responsible for completing the form, please contact me. Additional information can also be found on the enclosed Frequently Asked Questions sheet, and on our website where you can also download additional forms: www.nwfsc.noaa.gov/edc.

Sincerely,

A handwritten signature in black ink that reads "Erin Steiner". The signature is written in a cursive, flowing style.

Erin Steiner
National Marine Fisheries Service
NWFSC.EDC@noaa.gov
1-866-791-3726

G.4 First receiver and shorebased processor cover letter



Economic Data Collection (FRAM Division)
National Marine Fisheries Service
Northwest Fisheries Science Center
2725 Montlake Blvd East
Seattle, WA 98112

May 1, 2012

COMPANY_NAME
ADDRESS_LINE_1
CITY, STATE ZIPCODE

Our records indicate that you are required to submit an Economic Data Collection (EDC) first receiver/shorebased processor form for fiscal year 2011. Please return the enclosed form for the following first receiver site license (FRSL) number and facility name by September 1, 2012:

FRSL Number: FIRST_RECEIVER_SITE_LICENSE
Facility Name: NAME_OF_FACILITY

The West Coast Groundfish Trawl Catch Share Program, also known as trawl rationalization, began on January 11, 2011. Under this program, all owners of a first receiver site license in 2011; and owners and lessees of a shorebased processor that received round or headed-and-gutted IFQ species groundfish or whiting from a first receiver in 2011 are required to submit an EDC (50 CFR 660.114). In order for the Northwest Region to process first receiver license applications, all of your required EDC forms must be recorded as complete by September 1, 2012.

Tips for completing the forms:

- For your form to be recorded as complete, every question must have an answer, whether it is a number, a statement, or "NA". This means that if you do not have an answer for a specific question, you need to write "NA" in that answer box.
- To avoid delays in processing of your form, make sure that the name of the facility listed on your form is the same as the name of the facility listed on your first receiver site license.
- In Questions 19 and 20, which pertain to fish purchases and fish production, all activities at the facility should be recorded including fish purchases from other facilities.
- If you are uncertain about how to answer any question on the form, please contact me and we can discuss your facility's operations and how best to answer the questions.

The EDC data will be used by Northwest Fisheries Science Center (NWFSC) economists to evaluate the catch share program. Aggregated data and analyses will be compiled into a report and presented to the Pacific Fishery Management Council. The data you submit through the EDC program is confidential under the Magnuson-Stevens Act and NOAA Administrative Order 216-100. The individual level data will only be studied by NMFS employees or their contractors, and everyone who works with this data is required to sign a confidentiality agreement. When reporting the data, we will combine your responses with information provided by other participants, and report it in summary form so that individual responses cannot be identified.

If you have any questions about how to complete the form or believe that you are not responsible for completing the form, please contact me. Additional information can also be found on the enclosed Frequently Asked Questions sheet, and on our website where you can also download additional forms: www.nwfsc.noaa.gov/edc.

Sincerely,

A handwritten signature in black ink that reads "Erin Steiner". The signature is written in a cursive, flowing style.

Erin Steiner
National Marine Fisheries Service
NWFSC.EDC@noaa.gov
1-866-791-3726

Appendix H EDC Forms Used for 2011 Data Collection

This appendix contains the most recent version of each of the EDC forms. An archive of previously fielded forms can be found at the EDC form archive:

http://www.nwfsc.noaa.gov/research/divisions/fram/economic_data_archive.cfm. The appended forms also include the variable name that was assigned to each field on the form. These names match the variable names listed in Appendix F.

H.1 Catcher vessel form

Economic Data Collection (EDC) Form



WEST COAST GROUND FISH LIMITED ENTRY TRAWL CATCHER VESSEL 2011

NOAA Fisheries – Northwest Fisheries Science Center

Who is responsible for submitting. All owners, lessees, and charterers of a catcher vessel registered to a limited entry trawl endorsed permit at any time in 2011

Complete all questions. If a question is not applicable, write "NA" in the answer box. The survey will not be considered complete unless there is an answer to every question.

Submit by September 1, 2012. Completed and signed EDC forms must be mailed and postmarked by or hand-delivered to NMFS no later than September 1, 2012. Mail or deliver to:

Economic Data Collection Program (FRAM Division),
Northwest Fisheries Science Center
2725 Montlake Boulevard East
Seattle, WA 98112

Retain a copy. Retain a copy of the completed form

Fillable forms and more information. www.nwfsc.noaa.gov/edc

Questions. Visit the website above or contact Erin Steiner at (866) 791-3726 or NWFSC.EDC@noaa.gov

Public Reporting Burden Statement

Public reporting burden for this collection of information is estimated to take 8 hours per response, including time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden to Erin Steiner, National Marine Fisheries Service, Northwest Fisheries Science Center, 2725 Montlake Blvd E, Seattle, WA 98112.

Additional Information

Before completing this form, please note the following: 1) Notwithstanding any other provision of the law, no person is required to respond to, nor shall any person be subject to a penalty for failure to comply with, a collection of information subject to the requirements of the Paperwork Reduction Act, unless that collection of information displays a currently valid OMB Control Number; 2) This information is mandatory and is required to manage commercial fishing efforts under 50 CFR part 660 and under section 402(a) of the Magnuson-Stevens Act (16 U.S.C. 1801, *et seq.*); 3) Responses to this information request are confidential under 402(b) of the Magnuson-Stevens Act (16 U.S.C. 1801, *et seq.*). They are also confidential under NOAA Administrative Order 216-100, which sets forth procedures to protect the confidentiality of fishery statistics.

I. Contact Information and Vessel Characteristics

SURTYP
 2011 CV SURVEY_DBID SURVEY_DBID
 SURYY

Initials Overall Comments
 INITS CMTOA

1. Provide the following information about this vessel and its physical characteristics.

Item	Vessel Information
Vessel Name	VSSNAM
USCG Vessel Number (if none exists enter State ID)	VSSNUM
Home Port	VSSPT
Length Overall (feet)	VSSLNG
Fuel Capacity (gallons)	VSSFLCAP
Total Horsepower of Main Engines	VSSHP

CMT01

2. Provide the contact information for the **owner of the vessel**. Please make sure that the name provided matches the name of the holder of the limited entry permit attached to this vessel in 2011.

Name of Company, Partnership, or Other Business Entity ONAM			
Business Mailing Address Street / PO Box OADDR		Business Phone () OPH	
		Business Fax () OFAX	
City OCITY	State OST	Zip Code OZIP	Business Email OEM

CMT02

3. List the limited entry groundfish permit(s) used with this vessel during 2011 in the **West Coast** (Washington, Oregon, and California) fishery -- Do NOT include state fishing permits, e.g.: shrimp, crab, or salmon.

Limited Entry Permit Number PRMTNUM1	Permit Owned or Leased? Owned <input type="checkbox"/> PRMTOL1 Leased <input type="checkbox"/>
Limited Entry Permit Number (2) PRMTNUM2	Permit Owned or Leased? Owned <input type="checkbox"/> PRMTOL2 Leased <input type="checkbox"/>
Limited Entry Permit Number (3) PRMTNUM3	Permit Owned or Leased? Owned <input type="checkbox"/> PRMTOL3 Leased <input type="checkbox"/>
Limited Entry Permit Number (4) PRMTNUM4	Permit Owned or Leased? Owned <input type="checkbox"/> PRMTOL4 Leased <input type="checkbox"/>

CMT03

4.

a. Was the vessel leased or bareboat chartered during 2011?

Yes	<input type="checkbox"/>	Continue to question 4b
No	<input type="checkbox"/>	Skip to question 5 ➡

LEASE

b. If the vessel was leased or bareboat chartered during 2011, provide the contact information for the **lessee or charterer** of the vessel. If necessary, use the last page for additional lessees or charterers.

Name of Company, Partnership, or Other Business Entity LNAM			
Business Mailing Address Street / PO Box LADDR		Business Phone () LPH	
		Business Fax () LFAX	
City LCITY	State LST	Zip Code LZIP	Business Email LEM

c. Provide the dates the vessel was leased or bareboat chartered in 2011. If necessary, use the last page for additional lessees or charterers.

Begin: <u> </u> / <u> </u> / <u> </u>	End: <u> </u> / <u> </u> / <u> </u>
mm dd yyyy	mm dd yyyy

CMT04

5. Provide the contact information for the **individual completing this report**. If your address, phone, and email are provided in the owner or lessee/charterer information above, you do not need to repeat them here but please provide your name and title.

CMT05

<input type="checkbox"/> Vessel Owner or Designated Representative	ACCOL
<input type="checkbox"/> Vessel Lessee or Charterer or Designated Representative	
Name ACCNAM	Title ACCTITLE
Business Mailing Address Street / PO Box ACCADDR	Business Phone () ACCPH
	Business Fax () ACCFAX
City ACCCITY	State ACCST
	Zip Code ACCZIP
	Business Email ACCEM

6. Read the following statement, and sign and date the box below.

I certify under penalty of perjury that I have reviewed all the information in this form and that it is true and complete to the best of my knowledge.	
Signature SIGNED	Date signed SIGMM / SIGDD / SIGYY mm dd yyyy
If the Survey was signed enter a "Y" if the Survey was not signed enter a "N"	

CMT06

7. Did you harvest any fish (including shellfish) using this vessel during the 2011 calendar year?

HARVEST

CMT07

8. Answer the following questions related to the most recent marine survey value of the vessel.

What was the year of this vessel's last value survey?	VVYY _____
	yyyy
What was the <i>market value</i> of the vessel from the survey, rounded to the nearest 100 dollars?	\$ VVMRK _____
What was the <i>replacement value</i> of the vessel from the survey, rounded to the nearest 100 dollars?	\$ VVRPL _____
Did the survey values given above include the value of permits associated with the vessel at the time of the survey?	VVPRMT
Did the survey values given above include the value of quota associated with the vessel at the time of the survey?	VVQTA
Did the survey values given above include the value of all fishing gear on the vessel at the time of the survey?	VVGEAR

CMT08

9. For the remainder of the survey, report values from your 2011 fiscal year. When did this vessel's 2011 fiscal year begin?

FSCLMM / FSCLDD / FSCLYY
mm dd yyyy

CMT09

Please report values from your 2011 fiscal year for the remainder of this survey.

10. Did you have this vessel hauled out in 2011?

Use "Y" for Yes, "N" for No,
and "-7" for Not Applicable

HAULOUT

CMT10

11. Provide this vessel's average fuel use (for propulsion or other uses) per day, speed, and crew size (not including captain) when engaged in each of the following activities on the **West Coast** (Washington, Oregon, and California).

- Fuel use per day should be an average that includes steaming to the fishing grounds, harvesting fish, and steaming back to port and should include all fuels used for propulsion or other uses
- Put an "NA" under Fuel Use for all activities in which you did not operate this vessel.

Activity	Fuel Use	Speed While Fishing	Crew Size (not including captain)
West Coast whiting trawl gear (not including other groundfish)	<u>RUFLPWHT</u> gal/day	<u>RUSDPWHT</u> knots	<u>RUCWPWHT</u>
West Coast groundfish trawl gear (not including whiting)	<u>RUFLGRNDTWL</u> gal/day	<u>RUSPDGRNDTWL</u> knots	<u>RUCWGRNDTWL</u>
West Coast groundfish fixed gear	<u>RUFLGRNDFG</u> gal/day		<u>RUCWGRNDFG</u>
West Coast shrimp trawl gear	<u>RUFLSRMP</u> gal/day	<u>RUSPDSRMP</u> knots	<u>RUCWSRMP</u>
West Coast crab	<u>RUFLCRAB</u> gal/day		<u>RUCWCRAB</u>
West Coast halibut (Pacific or California)	<u>RUFLHLB</u> gal/day		<u>RUCWHLB</u>
West Coast salmon	<u>RUFLSAMN</u> gal/day	<u>RUSPDSAMN</u> knots	<u>RUCWSAMN</u>
West Coast tuna	<u>RUFLTUNA</u> gal/day	<u>RUSPDTUNA</u> knots	<u>RUCWTUNA</u>
Steaming between the West Coast and Alaska	<u>RUFLSTMAKWC</u> gal/day	<u>RUSPDSTMAKWC</u> knots	<u>RUCWSTMAKWC</u>

CMT11

12. How many gallons of fuel did this vessel use (for propulsion or other uses) during 2011 on the **West Coast** (Washington, Oregon, and California)?

- Exclude fuel use for activities related to charter of vessel
- Exclude activities in Alaska and steaming between the West Coast and Alaska

Type of Fuel	Gallons
Diesel	<u>FLDSL</u> gal
Other: <u>FLOTHRNAM</u>	<u>FLOTHR</u> gal

If more than one "Other" type was listed, Type out all of the types into the box above separating them with a semicolon. Do the same for the amounts and ensure the order is consistent

CMT12

13. Provide the number of days this vessel was at sea during 2011 in each of the following activities. Please note that there is a special category for days at sea steaming between the West Coast and Alaska. *(This information will be used to allocate some expenditures among the different fisheries in which the vessel participated.)*

- Count partial days as full days
- If you did not participate in a particular activity, please write "NA".

Activity	Days at Sea
West Coast whiting trawl gear (not including other groundfish)	<u>DASPWHT</u> days
West Coast groundfish trawl gear (not including whiting)	<u>DASGRNDTWL</u> days
West Coast groundfish fixed gear	<u>DASGRNDFG</u> days
West Coast shrimp trawl gear	<u>DASSRMP</u> days
West Coast crab	<u>DASCRAB</u> days
West Coast halibut (Pacific or California)	<u>DASHLB</u> days
West Coast salmon	<u>DASSAMN</u> days
West Coast tuna	<u>DASTUNA</u> days
Other West Coast fisheries	<u>DASOTHRWC</u> days
Alaskan fisheries	<u>DASFSHAK</u> days
Chartering / Research	<u>DASCHTR</u> days
Steaming between the West Coast and Alaska	<u>DASSTMAKWC</u> days

CMT13

14. Provide the number of **one-way** trips (count a round trip as 2 one-way trips) this vessel made steaming between the West Coast and Alaska during 2011.

TRPSAK one-way trips

CMT14

II. Capitalized Expenditures

15. Provide the 2011 **capitalized expenditures** associated with each of the following categories for this vessel. Note that some capitalized expenditures are for **All Fisheries** the vessel participates in (West Coast, Alaska, and other) and others are for **West Coast Fisheries only** fisheries (Washington, Oregon, and California). Round all answers to the nearest 100 dollars.

Capitalized Expenditure Category	Capitalized Expenditures in All Fisheries <i>West Coast, Alaska, and Other</i>	Capitalized Expenditures in West Coast Fisheries Only <i>Washington, Oregon, and California</i>
----------------------------------	--	---

Vessel and On-board Equipment

- Include all electronics, safety equipment, and machinery not used to harvest fish
- Exclude fishing gear and processing equipment

New and used vessel and on-board equipment (Regardless of where the vessel fished, enter all expenditures for vessel and on-board equipment under the All Fisheries column)	\$ <u>CXONBQALL</u>	
--	---------------------	--

Fishing Gear

- Include nets, doors, traps, pots, cables, and fishing machinery used for the West Coast fisheries
- Exclude any fishing gear that was only used in Alaska

Fishing gear used in <u>West Coast Fisheries only</u>		\$ <u>CXFGRWC</u>
Fishing gear <u>shared by West Coast, Alaska and other fisheries</u> (if you only fished in the West Coast, enter "NA")	\$ <u>CXFGRSHD</u>	

Processing Equipment

- Include any equipment used to process or head and gut fish on-board the vessel

Processing equipment used in <u>West Coast Fisheries only</u>		\$ <u>CXPQWC</u>
Processing equipment <u>shared by West Coast, Alaska and other fisheries</u> (if you only fished in the West Coast, enter "NA")	\$ <u>CXPQSHD</u>	

CMT15

III. Quota and Permit Expenses

16. Provide the total cost of quota shares, quota pounds, and fishing permits purchased or leased during 2011 in the **West Coast** limited entry fisheries.

	Purchase	Lease
Quota Shares	\$ <u>EXQSPU</u>	\$ <u>EXQSLS</u>
Quota Pounds	\$ <u>EXQPPU</u>	\$ <u>EXQPLS</u>
Limited Entry Trawl Permit	\$ <u>EXLEPPUTWL</u>	\$ <u>EXLEPLSTWL</u>
Limited Entry Fixed Gear Permit	\$ <u>EXLEPPUFG</u>	\$ <u>EXLEPLSFG</u>

CMT16

[Page 7]

IV. Annual Expenses

17. Provide the total amount **expensed** during 2011 in each of the following categories for this vessel. Note that some expenses are for **All Fisheries** the vessel participates in (West Coast, Alaska and other) and others are for **West Coast fisheries only** (Washington, Oregon, and California). Round all answers to the nearest 100 dollars.

- Include all chartering expenses, even if directly reimbursed
- If you do not track expenses for captain and crew separately, report the combined expenses under captain, and put "NA" under Crew

Expenses Category	Expenses in All Fisheries <i>West Coast, Alaska, and Other</i>	Expenses in West Coast Fisheries Only <i>Washington, Oregon, and California</i>
Captain (include wages, bonuses, benefits, payroll taxes, and unemployment insurance)		\$ <u>EXCPTWGC</u>
Crew (include wages, bonuses, benefits, payroll taxes, and unemployment insurance)		\$ <u>EXCWWGC</u>
Crew or captain travel not deducted from wages		\$ <u>EXTRAVWC</u>
Observer fees and electronic monitoring		\$ <u>EXOBSWC</u>
Fishing association and commission costs		\$ <u>EXFADWC</u>
State licensing and Federal permit fees		\$ <u>EXLICFEESWC</u>
Fuel and lubrication (do not include steaming between West Coast and Alaska)		\$ <u>EXFLLUBWC</u>
Food		\$ <u>EXFOODWC</u>
Ice		\$ <u>EXICEWC</u>
Bait		\$ <u>EXBAITWC</u>
Off-load expenses (cross-dock fees, port tariffs, hoist fees, etc.)		\$ <u>EXOFFLOADWC</u>
Freight to the vessel on supplies		\$ <u>EXFRGTWC</u>
Other supplies (cleaning, clothing, safety, etc.)		\$ <u>EXOTHRSUPWC</u>
Communications, including VMS, satellite phone, skymate		\$ <u>EXCOMMWC</u>
Trucking of fish to buyer	\$ <u>EXTRUCKWC</u>	

17. (Continued)

Expenses Category	Expenses in All Fisheries <i>West Coast, Alaska, and Other</i>	Expenses in West Coast Fisheries Only <i>Washington, Oregon, and California</i>
Vessel and on-board equipment purchase, repair and maintenance (expensed during 2011)	\$ <u>EXONBQRMALL</u>	
Repair and maintenance on fishing gear <u>used in the West Coast Fisheries only</u> (expensed during 2011)		\$ <u>EXFGRRMWC</u>
Repair and maintenance on fishing gear <u>shared by the West Coast, Alaska, and other fisheries (if you did not fish in Alaska, enter "NA")</u>	\$ <u>EXFGRRMSHD</u>	
Repair and maintenance on processing equipment (expensed during 2011)	\$ <u>EXPQRMALL</u>	
Insurance premium payments (hull and machinery, protection and indemnity, and pollution insurance)	\$ <u>EXINSEQALL</u>	
Moorage	\$ <u>EXMOORALL</u>	
Lease or bareboat charter of this vessel	\$ <u>EXVSSLSALL</u>	
Total depreciation (vessel, on-board equipment, processing equipment, and quota share) taken during 2011	\$ <u>EXDEPRALL</u>	

CMT17

18. Provide the total round weight of all fish landings made by this vessel in **Alaska** during 2011. Round to the nearest 100 pounds. *(This information will be used to allocate some of your expenditures between the different fisheries you participate in.)*

WTAK _____ lbs in Alaska

CMT18

19. Were any of the fish harvested by this vessel on the **West Coast** (Washington, Oregon, and California) during 2011 processed or headed and gutted on-board?

ONBPRC

CMT19

V. Annual Earnings

20. For each of the earnings sources listed below, indicate the income earned during 2011.

- Landings revenue should include taxes, buyback program fees, and post-season adjustments for fish harvested in 2011.

Earnings Source	Total Revenue
West Coast shoreside landings: <i>this information will be obtained from fish ticket data</i>	
West Coast at-sea deliveries to motherships	\$ <u>RVDELATSEA</u>
Alaska shoreside landings and at-sea deliveries	\$ <u>RVLANDDELAK</u>
Sale of West Coast limited entry trawl permits	\$ <u>RVLEPSLTWL</u>
Lease of West Coast limited entry trawl permits	\$ <u>RVLEPLSTWL</u>
Sale of other West Coast permits	\$ <u>RVPRMTSL</u>
Lease of other West Coast permits	\$ <u>RVPRMTLS</u>
Sale of West Coast limited entry quota shares	\$ <u>RVQSSL</u>
Lease of West Coast limited entry quota shares	\$ <u>RVQSLS</u>
Sale of West Coast limited entry quota pounds	\$ <u>RVQPSL</u>
Lease of West Coast limited entry quota pounds	\$ <u>RVQPLS</u>
Salmon disaster relief payments	\$ <u>RVDSTER</u>
Chartering / research / leasing vessel: include direct reimbursements	\$ <u>RVCHTR</u>
Other: <u>RVOTHRNAM</u>	\$ <u>RVOTHR</u>

If more than one "Other" type was listed, Type out all of the types into the box above separating them with a semicolon. Do the same for the amounts and ensure the order is consistent

CMT20

VI. Crew Share

21. Did this vessel use a crew share system to pay its crew when operating in the **West Coast groundfish** fisheries during 2011?

CWSHARE

→ Skip to question 23 ↻

CMT21

22. Which of the following expenses were deducted from total revenue before calculating the crew share when this vessel operated in the **West Coast groundfish** fisheries during 2011?

Expense Category	Deducted from Crew Share?
Crew or captain travel not deducted from wages	SHRDTRAVCWCPT
Observer fees and electronic monitoring	SHRDOBS
Fishing association and commission costs	SHRDFAD
State licensing and Federal permit fees	SHRDLICFEES
Buyback fees	SHRDBUYBACK
Fuel and lubrication	SHRDFLLUB
Food	SHRDFOOD
Ice	SHRDICE
Bait	SHRDBAIT
Off-load expenses	SHRDOFFLOAD
Freight to the vessel on supplies	SHRDFRGT
Other supplies	SHRDOTHRSUPP
Communications	SHRDCOMM
Trucking of fish to buyer	SHRDTRUCK
Insurance premium payments	SHRDINS
Lease or charter of this vessel	SHRDVSSLS
Quota pounds held at the start of the year	SHRDONBQRM
Quota pounds purchased or leased during the year	SHRDQPPU
Quota shares purchased or amortized during the year	SHRDQSPU
Limited entry trawl permit	SHRDLEP
Other West Coast permit	SHRDPRMTWC
Other: SHRDOTHRNAM	SHRDOTHR

CMT22

23. On what percentage of fishing trips did the vessel owner serve as captain in the **West Coast groundfish** fisheries during 2011?

SHRPOONB % _____ %

CMT23

24. On trips when the vessel owner **served as captain**, please indicate the share of net revenue (revenue minus the deductions listed in Question 22) going to the vessel, captain, crew, and if applicable, Other.

- The column should sum to 100%.
- If this vessel did not use a crew share system to pay its crew, enter "NA" in each of the boxes below.

Vessel share	SHRPVSSOONB % _____ %
Captain share	SHRPCPTOONB % _____ %
Crew share	SHRPCWOONB % _____ %
Other <small>SHRPOTHRGOONB1</small>	SHRPOTHRGOONB1 % _____ %
Other <small>SHRPOTHRGOONB2</small>	SHRPOTHRGOONB2 % _____ %
Total	100 %

CMT24

25. On trips when the vessel owner **did not serve as captain**, please indicate the share of net revenue (revenue minus the deductions listed in Question 22) going to the vessel, captain, crew, and if applicable, Other.

- The column should sum to 100%.
- If this vessel did not use a crew share system to pay its crew, enter "NA" in each of the boxes below.

Vessel share	SHRPVSSHCPPT % _____ %
Captain share	SHRPCPTNCPPT % _____ %
Crew share	SHRPCWHCPPT % _____ %
Other <small>SHRPOTHRHCPPT1</small>	SHRPOTHRHCPPT1 % _____ %
Other <small>SHRPOTHRHCPPT2</small>	SHRPOTHRHCPPT2 % _____ %
Total	100 %

CMT25

Questionnaire Comments:

CMTQU

H.2 Catcher-processor form

Economic Data Collection (EDC) Form



WEST COAST GROUND FISH LIMITED ENTRY TRAWL CATCHER-PROCESSOR VESSEL 2011

NOAA Fisheries – Northwest Fisheries Science Center

Who is responsible for submitting. All owners, lessees, and charterers of a vessel registered to a catcher-processor endorsed limited entry trawl permit at any time in 2011

Complete all questions. If a question is not applicable, write "NA" in the answer box. The survey will not be considered complete unless there is an answer to every question.

Submit by September 1, 2012. Completed and signed EDC forms must be mailed and postmarked by or hand-delivered to NMFS no later than September 1, 2012. Mail or deliver to

Economic Data Collection Program (FRAM Division),
Northwest Fisheries Science Center
2725 Montlake Boulevard East
Seattle, WA 98112

Retain a copy. Retain a copy of the completed form

Fillable forms and more information. www.nwfsc.noaa.gov/edc

Questions. Visit the website above or contact Erin Steiner at (866) 791-3726 or NWFSC.EDC@noaa.gov

Public Reporting Burden Statement

Public reporting burden for this collection of information is estimated to take 8 hours per response, including time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden to Erin Steiner, National Marine Fisheries Service, Northwest Fisheries Science Center, 2725 Montlake Blvd E, Seattle, WA 98112.

Additional Information

Before completing this form, please note the following: 1) Notwithstanding any other provision of the law, no person is required to respond to, nor shall any person be subject to a penalty for failure to comply with, a collection of information subject to the requirements of the Paperwork Reduction Act, unless that collection of information displays a currently valid OMB Control Number; 2) This information is mandatory and is required to manage commercial fishing efforts under 50 CFR part 660 and under section 402(a) of the Magnuson-Stevens Act (16 U.S.C. 1801, *et seq.*); 3) Responses to this information request are confidential under 402(b) of the Magnuson-Stevens Act (16 U.S.C. 1801, *et seq.*). They are also confidential under NOAA Administrative Order 216-100, which sets forth procedures to protect the confidentiality of fishery statistics.

I. Contact Information and Vessel Characteristics

SURYY

2011 CP SURTYP Survey_DBID SURVEY_DBID

Initials

Overall Comments

INITS

CMTOA

1. Provide the following information about this vessel and its physical characteristics.

Item	Vessel Information
Vessel Name	VSSNAM
USCG Vessel Number	VSSNUM
Home Port	VSSPT
Length Overall (feet)	VSSLNG
Fuel Capacity (gallons)	VSSFLCAP
Horsepower of Main Engines	VSSHHP

CMT01

2. Provide the contact information for the **owner of the catcher-processor vessel**.

Name of Company, Partnership, or Other Business Entity ONAM			
Business Mailing Address Street / PO Box		OADDR	Business Phone () OPH
			Business Fax () OFAX
City	State	Zip Code	Business Email
OCITY	OST	OZIP	OEM

CMT02

3. If the vessel was leased or bareboat chartered during 2011, provide the contact information for **the lessee or charterer of the catcher-processor vessel**. If necessary, use the last page for additional lessees or charterers.

Name of Company, Partnership, or Other Business Entity LNAME			
Business Mailing Address Street / PO Box		LADDR	Business Phone () LPH
			Business Fax () LFAX
City	State	Zip Code	Business Email
LCITY	LST	LZIP	LEM

CMT03

4. List the catcher-processor endorsed limited entry trawl permit(s) used with this vessel during 2011 in the **West Coast** whiting fishery below. *West Coast* includes Washington, Oregon, and California.

Catcher-Processor Endorsed Permit Number PRMTNUM1	Permit Owned or Leased? Owned <input type="checkbox"/> PRMTOL1 Leased <input type="checkbox"/>
Catcher-Processor Endorsed Permit Number (2) PRMTNUM2	Permit Owned or Leased? Owned <input type="checkbox"/> PRMTOL2 Leased <input type="checkbox"/>
Catcher-Processor Endorsed Permit Number (3) PRMTNUM3	Permit Owned or Leased? Owned <input type="checkbox"/> PRMTOL3 Leased <input type="checkbox"/>

CMT04

5. Provide the contact information for the **individual completing this report**. If your address, phone, and email are provided in the owner or lessee/charterer information above, you do not need to repeat them here but please provide your name and title.

<input type="checkbox"/> Catcher-Processor Vessel Owner (or Designated Representative) ACCOL			
<input type="checkbox"/> Catcher-Processor Vessel Lessee or Charterer (or Designated Representative)			
Name ACCNAM		Title ACCTITLE	
Business Mailing Address Street / PO Box ACCADDR		Business Phone () ACCPH	
		Business Fax () ACCFAX	
City ACCCITY	State ACCST	Zip Code ACCZIP	Business Email ACCEM

CMT05

6. Read the following statement, and sign and date the box below.

I certify under penalty of perjury that I have reviewed all the information in this form and that it is true and complete to the best of my knowledge.		
Signature SIGNED	If the Survey was signed enter a "Y" if the Survey was not signed enter a "N"	Date signed SIGMM / SIGDD / SIGYY mm dd yyyy

CMT06

Please proceed to the next page ➡

If a question is not applicable, write "NA" in the answer box.

7. Answer the following questions related to the most recent survey value of the vessel.

What was the year of this vessel's last value survey?	VVYY _____
What was the <i>market value</i> of the vessel from the survey, rounded to the nearest 100 dollars?	\$ VVMRK _____
What was the <i>replacement value</i> of the vessel from the survey, rounded to the nearest 100 dollars?	\$ VVRPL _____
Did the survey values given above include the value of permits associated with the vessel at the time of the survey?	VVPRMT
Did the survey values given above include the value of quota associated with the vessel at the time of the survey?	VVQTA
Did the survey values given above include the value of all processing equipment on the vessel at the time of the survey?	VVPQ
Did the survey values given above include the value of all fishing gear on the vessel at the time of the survey?	VVGEAR

Use "Y" for Yes, "N" for No, and "-7" for Not Applicable

CMT07

8. For the remainder of the survey, report values from your 2011 fiscal year. When did this vessel's 2011 fiscal year begin?

FSCLMM	/	FSCLDD	/	FSCLYY
mm		dd		yyyy

CMT08

Please report values from your 2011 fiscal year for the remainder of this survey.

9. Was this vessel hauled out in 2011?

HAULOUT

Use "Y" for Yes, "N" for No, and "-7" for Not Applicable

CMT09

10. Provide this vessel's average fuel use per day (for propulsion or other uses) when engaged in each of the following activities.

- **West Coast** includes Washington, Oregon, and California.
- Fuel use should include all fuels used for propulsion or other uses

Activity	Fuel Use
Fishing, processing, and steaming in the West Coast whiting fishery	RUFLFPS gal/day
Steaming between the West Coast and Alaska	RUFLSTMAKWC gal/day

CMT10

11. How many gallons of fuel did this vessel use (for propulsion or other uses) during 2011 in the **West Coast** whiting fishery?

- Please exclude any steaming between the West Coast and Alaska in these calculations.

Type of Fuel	Gallons
Diesel	FLDSL _____ gal
Bunker oil	FLBUNK _____ gal
Fish oil	FLFOIL _____ gal

CMT11

12. Provide the number of days this vessel was at sea during 2011 in each of the following activities. Please note that there is a special category for days at sea steaming between the West Coast and Alaska. *(This information will be used to allocate some of your expenditures between the West Coast and Alaska in order to avoid asking more detailed information about the vessel's activity in Alaska)*

- Count partial days as full days

Activity	Days at Sea
Fishing and Processing in the West Coast whiting fishery	DASFPWC _____ days
Steaming in the West Coast whiting fishery	DASSTMWC _____ days
Off-loading in the West Coast whiting fishery	DASOFFWC _____ days
Steaming between the West Coast and Alaska	DASSTMAKWC _____ days
All Alaska fisheries	DASFSHAK _____ days

CMT12

13. Provide the number of **one-way** trips (count a round trip as 2 one-way trips) this vessel made steaming between the West Coast and Alaska during 2011.

TRPSAK _____ one-way trips

CMT13

14. Provide the average number of processing crew members and the average number of non-processing crew members (including the captain) when the vessel was operating in the **West Coast** whiting fishery during 2011.

- **Processing crew** includes line workers, fishmeal crew, quality control, technicians, cleanup, factory managers, mechanics who work on processing equipment, and combis
- **Non-processing crew** includes deckhands, wheelhouse, galley, and engineers

Fishery	Average Number of Processing Crew Members	Average Number of Non-processing Crew Members
West Coast whiting	RUCWPRC _____	RUCWNPR _____

CMT14

II. Capitalized Investments

15. Provide the 2011 capitalized expenditures associated with each of the following categories for this vessel. Note that some capitalized expenditures are for **All Fisheries** the vessel participates in (West Coast, Alaska, and other) and others are for **West Coast whiting fishery only**. Round all answers to the nearest 100 dollars. (*Capital investments on the vessel and gear shared across fisheries will be allocated to the West Coast based on days or tonnage.*)

Capitalized Expenditure Category	Capitalized Expenditures in All Fisheries <i>West Coast, Alaska, and Other</i>	Capitalized Expenditures in West Coast Fisheries Only <i>Washington, Oregon, and California</i>
----------------------------------	---	--

Vessel and On-board Equipment

- Exclude processing equipment and fishing gear
- Include all electronics, safety equipment, and machinery not used to harvest or process fish

New and used vessel and on-board equipment	\$ <u>CXONBQALL</u>	
--	---------------------	--

Processing Equipment

- Exclude all equipment, machines, and buildings based primarily on shore
- Exclude any processing equipment that is not used at least partially in the West Coast whiting fishery
- Include on-board freezers, storage equipment, packing equipment, conveyers, and on-board cargo handling equipment

Processing equipment used in the <u>West Coast whiting fishery only</u>		\$ <u>CXPQWC</u>
Processing equipment <u>shared by the West Coast whiting and other fisheries</u>	\$ <u>CXPQSHD</u>	

Fishing Gear

- Include nets, cables, doors, and fishing machinery used in the West Coast whiting fishery
- Exclude any fishing gear that is not used at least partially in the West Coast whiting fishery

Fishing gear used in the <u>West Coast whiting fishery only</u>		\$ <u>CXFGRC</u>
Fishing gear <u>shared by the West Coast whiting and other fisheries</u>	\$ <u>CXFGRSHD</u>	

CMT15

III. Quota and Permit Expenses

16. Provide the total cost of co-op shares and catcher-processor endorsed limited entry trawl permits purchased or leased during 2011 in the **West Coast whiting fishery**.

Purchase or Lease of Quota and Permits	Total Cost
Purchase of co-op shares	\$ <u>EXCQQPSHPU</u>
Lease of co-op shares	\$ <u>EXCOOPSHLS</u>
Purchase of catcher-processor endorsed permit	\$ <u>EXLEPPU</u>
Lease of catcher-processor endorsed permit	\$ <u>EXLEPLS</u>

CMT16

IV. Annual Expenses

17. Provide the total amount **expensed** during 2011 in each of the categories below. Note that some expenses are for **All Fisheries** (West Coast, Alaska, and other) and some expenses are asked for the **West Coast whiting fishery only**. Round all answers to the nearest 100 dollars.

Expenses Category	Expenditures in All Fisheries <i>West Coast, Alaska, and Other</i>	Expenditures in West Coast Fisheries Only <i>Washington, Oregon, and California</i>	
Processing crew (include wages, bonuses, benefits, payroll taxes, and unemployment insurance)		\$ <u>EXCWWGPRCWC</u>	
Non-processing crew (include wages, bonuses, benefits, payroll taxes, and unemployment insurance)		\$ <u>EXCWWGNPRWC</u>	
Crew travel not deducted from crew wages		\$ <u>EXTRAVWC</u>	
Observer fees		\$ <u>EXOBSWC</u>	
Sea State data monitoring		\$ <u>EXSEASTATEWC</u>	
Co-op membership fees		\$ <u>EXCOOPWC</u>	
Marine Stewardship Council fees		\$ <u>EXMSCWC</u>	
Fuel and lubrication (do not include steaming between West Coast and Alaska)		\$ <u>EXFLLUBWC</u>	
Food		\$ <u>EXFOODWC</u>	
Non-fish ingredients (additives)		\$ <u>EXADTVSWC</u>	
Packing materials		\$ <u>EXPKGWC</u>	
Freight to the vessel on supplies		\$ <u>EXFRGTWC</u>	
Other supplies (linens, clothing, cleaning, etc.)		\$ <u>EXOTHRSUPWC</u>	
Communications		\$ <u>EXCOMMWC</u>	
Off-load expenses (cross-dock fees, port tariffs, etc.)		\$ <u>EXOFFLOADWC</u>	
On-board cargo / product insurance		\$ <u>EXINSPRODWC</u>	
Repair and maintenance on fishing gear used in the <u>West Coast whiting fishery only</u> (expensed in 2011)		\$ <u>EXFGRRMWC</u>	
Repair and maintenance on fishing gear <u>shared by the West Coast whiting fishery and other fisheries</u> (expensed in 2011)			\$ <u>EXFGRRMSHD</u>
Processing equipment repair and maintenance (expensed in 2011)			\$ <u>EXPQRMALL</u>
Vessel and on-board equipment repair and maintenance (expensed in 2011)			\$ <u>EXONBQRMALL</u>

17. (Continued)

Expenses Category (continued)	Expenditures in All Fisheries <i>West Coast, Alaska, and Other</i>	Expenditures in West Coast Fisheries Only <i>Washington, Oregon, and California</i>
Insurance premium payments (hull and machinery, protection and indemnity, and pollution insurance)	\$ <u>EXINSEQALL</u>	
Moorage	\$ <u>EXMOORALL</u>	
Lease or bareboat charter of this catcher-processor vessel	\$ <u>EXVSSLSALL</u>	
Depreciation (vessel, on-board equipment, fishing gear, processing equipment, and quota share)	\$ <u>EXDEPRALL</u>	

CMT17

18. Provide the total round weight of all fish processed by this catcher-processor vessel in **All Fisheries** (West Coast, Alaska, and other) during 2011. Round to the nearest metric ton. *(This information will be used to allocate some of your expenditures between the West Coast and Alaska in order to avoid asking more detailed information about the vessel's activity in Alaska.)*

WTALL mt

CMT18

Please proceed to the next page ➡

V. Annual Earnings

19. Provide the total weight and value of production in the **West Coast** whiting fishery during 2011. Report weights to the nearest metric ton.

- Do not include any additional payment you received to cover any shipping, handling, or storage costs associated with the sale beyond the FOB port of discharge.
- Please include any post-season adjustments for products produced in 2011.
- For products produced in 2011 and held in inventory at the end of the year, estimate the value on the basis of the average price received for similar products sold during the year.
- Include products shipped to other establishments of your company.
- Do not include revenue associated with fish caught in any fishery except the West Coast whiting fishery.

Type of Fish	Total Weight of Production	Total Value of Production
Whiting		
Surimi	<u>RVWTPWHTSURI</u> mt	\$ <u>RVVALPWHTSURI</u>
Fillets	<u>RVWTPWHTFILL</u> mt	\$ <u>RVVALPWHTFILL</u>
H&G	<u>RVWTPWHTHG</u> mt	\$ <u>RVVALPWHTHG</u>
Round (unprocessed)	<u>RVWTPWHTRND</u> mt	\$ <u>RVVALPWHTRND</u>
Fishmeal	<u>RVWTPWHTFML</u> mt	\$ <u>RVVALPWHTFML</u>
Fish oil	<u>RVWTPWHTFOIL</u> mt	\$ <u>RVVALPWHTFOIL</u>
Roe	<u>RVWTPWHTROE</u> mt	\$ <u>RVVALPWHTROE</u>
Minced	<u>RVWTPWHTMINC</u> mt	\$ <u>RVVALPWHTMINC</u>
Stomachs	<u>RVWTPWHTSTOM</u> mt	\$ <u>RVVALPWHTSTOM</u>
Other: <u>RVPWHTOTHRNAM</u>	<u>RVWTPWHTOTHR</u> mt	\$ <u>RVVALPWHTOTHR</u>
Other Species		
All other species	<u>RVWTOTHR</u> mt	\$ <u>RVVALOTHR</u>

CMT19

20. Provide the percentage, by value, of all products off-loaded from this catcher-processor vessel in the **West Coast** whiting fishery at each of the following locations. The column should sum to 100%.

Location	Percentage of Total Off-load Value
Seattle	<u>PTSEA</u> %
Blaine / Bellingham	<u>PTBELL</u> %
Port Angeles	<u>PTPANGL</u> %
Tacoma	<u>PTTAC</u> %
Astoria	<u>PTASTORIA</u> %
Coos Bay	<u>PTCOOSB</u> %
At sea (tramper)	<u>PTATSEA</u> %
Other: <u>PTOTHRNAM</u>	<u>PTOTHR</u> %

If more than one "Other" type was listed, Type out all of the types into the box above separating them with a semicolon. Do the same for the amounts and ensure the order is consistent

CMT20

21. Provide the revenue received during 2011 from the sale or lease of **West Coast** limited entry trawl endorsed permits that were associated with this vessel.

Permits Purchased or Leased	Revenue Received
Sale of West Coast catcher-processor endorsed permits	\$ <u>RVLEPSL</u>
Lease of West Coast catcher-processor endorsed permits	\$ <u>RVLEPLS</u>

CMT21

22. Provide the revenue received during 2011 from the sale or lease of West Coast co-op shares.

Sale / Lease of Quota	Revenue Received
Sale of co-op shares	\$ <u>RVCOOPSHSL</u>
Lease of co-op shares	\$ <u>RVCOOPSHLS</u>

CMT22

23. Provide the revenue received during 2011 from the lease or bareboat charter of this catcher-processor vessel.

\$ RVCHTR

CMT23

Questionnaire Comments:

CMTQU

H.3 Mothership form

Economic Data Collection (EDC) Form



WEST COAST GROUND FISH LIMITED ENTRY TRAWL MOTHERSHIP VESSEL 2011

NOAA Fisheries – Northwest Fisheries Science Center

Who is responsible for submitting. All owners, lessees, and charterers of a mothership vessel registered to an MS permit at any time in 2011

Complete all questions. If a question is not applicable, write "NA" in the answer box. The survey will not be considered complete unless there is an answer to every question.

Submit by September 1, 2011. Completed and signed EDC forms must be mailed and postmarked by or hand-delivered to NMFS no later than September 1, 2012. Mail or deliver to

Economic Data Collection Program (FRAM Division),
Northwest Fisheries Science Center
2725 Montlake Boulevard East
Seattle, WA 98112

Retain a copy. Retain a copy of the completed form

Fillable forms and more information. www.nwfsc.noaa.gov/edc

Questions. Visit the website above or contact Erin Steiner at (866) 791-3726 or NWFSC.EDC@noaa.gov

Public Reporting Burden Statement

Public reporting burden for this collection of information is estimated to take 8 hours per response, including time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden to Erin Steiner, National Marine Fisheries Service, Northwest Fisheries Science Center, 2725 Montlake Blvd E, Seattle, WA 98112.

Additional Information

Before completing this form, please note the following: 1) Notwithstanding any other provision of the law, no person is required to respond to, nor shall any person be subject to a penalty for failure to comply with, a collection of information subject to the requirements of the Paperwork Reduction Act, unless that collection of information displays a currently valid OMB Control Number; 2) This information is mandatory and is required to manage commercial fishing efforts under 50 CFR part 660 and under section 402(a) of the Magnuson-Stevens Act (16 U.S.C. 1801, *et seq.*); 3) Responses to this information request are confidential under 402(b) of the Magnuson-Stevens Act (16 U.S.C. 1801, *et seq.*). They are also confidential under NOAA Administrative Order 216-100, which sets forth procedures to protect the confidentiality of fishery statistics.

I. Contact Information and Vessel Characteristics

SURY

Initials

Overall Comments

2011 MS

INITIS

1. Provide the following information about this vessel and its physical characteristics.

Item	Vessel Information
Vessel Name	VSSNAM
USCG Vessel Number	VSSNUM
Home Port	VSSPT
Length Overall (feet)	VSSLNG
Fuel Capacity (gallons)	VSSFLCAP
Horsepower of Main Engines	VSSHP

2. Provide the contact information for the **owner of the mothership vessel**.

Name of Company, Partnership, or Other Business Entity ONAM			
Business Mailing Address Street / PO Box		OADDR	Business Phone () OPH
			Business Fax () OFAX
City OCITY	State OST	Zip Code OZIP	Business Email OEM

3. If the vessel was leased or bareboat chartered during 2011, provide the contact information for the **lessee or charterer** of the mothership vessel. If necessary, use the last page for additional lessees or charterers.

Name of Company, Partnership, or Other Business Entity LNAM			
Business Mailing Address Street / PO Box		LADDR	Business Phone () LPH
			Business Fax () LFAX
City LCITY	State LST	Zip Code LZIP	Business Email LEM

4. List the mothership permit(s) used with this vessel during 2011 in the **West Coast whiting fishery** below. West Coast includes Washington, Oregon, and California.

Mothership Permit Number PRMTNUM1	Permit Owned or Leased? Owned <input type="checkbox"/> PRMTOL1 Leased <input type="checkbox"/>
Mothership Permit Number (2) PRMTNUM2	Permit Owned or Leased? Owned <input type="checkbox"/> PRMTOL2 Leased <input type="checkbox"/>
Mothership Permit Number (3) PRMTNUM3	Permit Owned or Leased? Owned <input type="checkbox"/> PRMTOL3 Leased <input type="checkbox"/>

CMT04

5. Provide the contact information for the **individual completing** this report. If your address, phone, and email are provided in the owner or lessee/charterer information above, you do not need to repeat them here but please provide your name and title.

<input type="checkbox"/> Mothership Vessel Owner or Designated Representative ACCOL			
<input type="checkbox"/> Mothership Vessel Lessee or Charterer or Designated Representative			
Name ACCNAM		Title ACCTITLE	
Business Mailing Address Street / PO Box ACCADDR		Business Phone () ACCPH	
		Business Fax () ACCFAX	
City ACCCITY	State ACCST	Zip Code ACCZIP	Business Email ACCEM

CMT05

6. Read the following statement and sign and date the box below.

I certify under penalty of perjury that I have reviewed all the information in this form and that it is true and complete to the best of my knowledge.

Signature SIGNED	If the Survey was signed enter a "Y" if the Survey was not signed enter a "N"	Date signed SIGMM/ SIGDD/ SIGYY mm dd yyyy
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CMT06

Please proceed to the next page ➡

If a question is not applicable, write "NA" in the answer box.

7. Answer the following questions related to the most recent survey value of the vessel.

What was the year of this vessel's last value survey?	<u> </u> VVYY <u> </u> YYYY
What was the <i>market value</i> of the vessel from the survey, rounded to the nearest 100 dollars?	\$ <u> </u> VVMRK
What was the <i>replacement value</i> of the vessel from the survey, rounded to the nearest 100 dollars?	\$ <u> </u> VVRPL
Did the survey values given above include the value of permits associated with the vessel at the time of the survey?	VVPRMT
Did the survey values given above include the value of quota associated with the vessel at the time of the survey?	VVQTA
Did the survey values given above include the value of all processing equipment gear on the vessel at the time of the survey?	VVPQ
Did the survey values given above include the value of all fishing gear on the vessel at the time of the survey?	VVGEAR

Use "Y" for Yes, "N" for No, and "-7" for Not Applicable

CMT07

8. For the remainder of the survey, report values from your 2011 fiscal year. When did this vessel's 2011 fiscal year begin?

FSCL/FSCL/FSCLYY
mm dd yyyy

CMT08

Please report values from your 2011 fiscal year for the remainder of this survey.

9. Was this vessel hauled out in 2011?

HAULOUT

Use "Y" for Yes, "N" for No, and "-7" for Not Applicable

CMT09

10. Provide this vessel's average fuel use per day (for propulsion or other uses) when engaged in each of the following activities.

- **West Coast** includes Washington, Oregon, and California.
- Fuel use should include all fuels used for propulsion or other uses

Activity	Fuel Use
Processing and steaming in the West Coast whiting fishery	<u> </u> RUFLPS gal/day
Steaming between the West Coast and Alaska	<u> </u> RUFLSTMAK gal/day

CMT10

11. How many gallons of fuel did this vessel use (for propulsion or other uses) during 2011 in the **West Coast** whiting fishery?

- Please exclude any steaming between the West Coast and Alaska in these calculations.

Type of Fuel	Gallons
Diesel	FLDSL _____ gal
Bunker oil	FLBUNK _____ gal
Fish oil	FLFOIL _____ gal

CMT11

12. Provide the number of days this vessel was at sea during 2011 in each of the following activities. Please note that there is a special category for days at sea steaming between the West Coast and Alaska. *(This information will be used to allocate some of your expenditures between the West Coast and Alaska in order to avoid asking more detailed information about the vessel's activity in Alaska)*

- Count partial days as full days

Activity	Days at Sea
Processing in the West Coast whiting fishery	DASPRCWC _____ days
Steaming in the West Coast whiting fishery	DASSTMWC _____ days
Off-loading in the West Coast whiting fishery	DASOFFWC _____ days
Steaming between the West Coast and Alaska	DASSTMAKW _____ days
All Alaska fisheries	DASFSHAK _____ days

CMT12

13. Provide the number of **one-way** trips (count a round trip as 2 one-way trips) this vessel made steaming between the West Coast and Alaska during 2011.

TRPSA one-way trips

CMT13

14. Provide the average number of processing crew members and the average number of non-processing crew members (including the captain) when the vessel was operating in the **West Coast** whiting fishery during 2011.

- **Processing crew** includes line workers, fishmeal crew, quality control, technicians, cleanup, mechanics who work on processing equipment, factory manager, and combis.
- **Non-processing crew** includes wheelhouse, deck crew, engine room, and galley.

Fishery	Average Number of Processing Crew Members	Average Number of Non-Processing Crew (including captain)
West Coast whiting	RUCWPRC _____	RUCWNPR _____

CMT14

II. Capitalized Investments

15. Provide the 2011 **capitalized expenditures** associated with each of the following categories for this vessel. Note that some capitalized expenditures are for **All Fisheries** the vessel participates in (West Coast, Alaska, and other) and others are for **West Coast whiting fishery only**. Round all answers to the nearest 100 dollars. (*Capital investments on the vessel and gear shared across fisheries will be allocated to the West Coast based on days or tonnage.*)

Capitalized Expenditure Category	Capitalized Expenditures in All Fisheries <i>West Coast, Alaska, and Other</i>	Capitalized Expenditures in West Coast Fisheries Only <i>Washington, Oregon, and California</i>
----------------------------------	---	--

Vessel and On-board Equipment

- Exclude processing equipment and fishing gear
- Include all electronics, safety equipment, and machinery not used to harvest or process fish

New and used vessel and on-board equipment (Regardless of where the vessel fished, enter all expenditures for vessel and on-board equipment under the All Fisheries column)	\$ <u>CXONBQALL</u>	
--	---------------------	--

Fishing Gear

- Include nets, cables, doors, and fishing machinery used in the West Coast whiting fishery
- Exclude any fishing gear that is not used at least partially in the West Coast whiting fishery

Fishing Gear used <u>for West Coast fisheries only</u>		\$ <u>CXPQWC</u>
Fishing gear <u>shared by West Coast, Alaska, and other fisheries</u> (if you only fished in the West Coast, enter "NA")	\$ <u>CXPQSHD</u>	

Processing Equipment

- Exclude all equipment, machines, and buildings based primarily on shore
- Exclude any processing equipment that is not used at least partially in the West Coast whiting fishery
- Include on-board freezers, storage equipment, packing equipment, conveyers, and on-board cargo handling equipment

Processing equipment used <u>for West Coast fisheries only</u>		\$ <u>CXFGRWC</u>
Processing equipment <u>shared by West Coast, Alaska and other fisheries</u> (if you only fished in the West Coast, enter "NA")	\$ <u>CXFGRSHD</u>	

CMT15

III. Permit Expenses

16. Provide the total cost of mothership permits purchased or leased during 2011 for use in the **West Coast whiting fishery**.

Permits and Purchased or Leased	Total Cost
Purchase of mothership permits	\$ <u>EXMSPPU</u>
Lease of mothership permits	\$ <u>EXMSPLS</u>

CMT16

IV. Annual Expenses

17. Provide the total amount **expensed** during 2011 in each of the categories below. Note that some expenses are for **All Fisheries** (West Coast, Alaska and other) and some expenses are asked for the **West Coast whiting fishery only**. Round all answers to the nearest 100 dollars.

Expenses Category	Expenditures in All Fisheries <i>West Coast, Alaska, and Other</i>	Expenditures in West Coast Fisheries Only <i>Washington, Oregon, and California</i>
Processing crew (include wages, bonuses, benefits, payroll taxes, and unemployment insurance)		\$ <u>EXCWWGPRCW</u>
Non-Processing crew (include wages, bonuses, payroll taxes, and unemployment insurance)		\$ <u>EXCWWGNPRW</u>
Crew travel not deducted from crew wages		\$ <u>EXTRAVWC</u>
Observer fees		\$ <u>EXOBSWC</u>
Mothership co-op dues		\$ <u>EXCOOPWC</u>
Fuel and lubrication (do not include steaming between West Coast and Alaska)		\$ <u>EXFLUBWC</u>
Food		\$ <u>EXFOODWC</u>
Non-fish ingredients (additives)		\$ <u>EXADTVSWC</u>
Packing materials		\$ <u>EXPKGWC</u>
Freight to the vessel on supplies		\$ <u>EXFRGTWC</u>
Other supplies (linens, clothing, cleaning, etc.)		\$ <u>EXOTHRSUPPW</u>
Communications		\$ <u>EXCOMMWC</u>
Offload expenses (cross-dock fees, port tariffs, etc.)		\$ <u>EXOFFLOADWC</u>
On-board cargo / product insurance		\$ <u>EXINSPRODWC</u>
Repair and maintenance on fishing gear used in the <u>West Coast whiting fishery only</u> (expensed in 2011)		\$ <u>EXFGRRMWC</u>
Repair and maintenance on fishing gear <u>shared by the West Coast whiting fishery and other fisheries</u> (expensed in 2011)	\$ <u>EXFGRRMSHD</u>	
Processing equipment repair and maintenance (expensed in 2011)	\$ <u>EXPQRMALL</u>	
Vessel and on-board equipment repair and maintenance (expensed in 2011)	\$ <u>EXONBQRMALL</u>	

17. (Continued)

Expenses Category	Expenditures in All Fisheries <i>West Coast, Alaska, and Other</i>	Expenditures in West Coast Fisheries Only <i>Washington, Oregon, and California</i>
Insurance premium payments (hull and machinery, protection and indemnity, and pollution insurance)	\$ <u>EXINSEQALL</u>	
Moorage	\$ <u>EXMOORALL</u>	
Lease or bareboat charter of this mothership vessel	\$ <u>EXVSSLSALL</u>	
Depreciation (vessel, on-board equipment, and processing equipment)	\$ <u>EXDEPRALL</u>	

CMT17

18. Provide the weight and the cost of fish purchased from catcher vessels in the **West Coast whiting fishery** during 2011. Round weights to the nearest metric ton.

- Please include any post-season adjustments for purchases of fish that were harvested in 2011.
- Total cost should include taxes and vessel buyback program fees paid on behalf of catcher vessels.

Type of Fish	Total Weight of Fish Received but Not Paid For (for size or other reasons)	Total Weight of Fish Purchased	Total Cost of Fish Purchases
Whiting	<u>EXWTRWCPWHT</u> mt	<u>EXWTPWCPWHT</u> mt	\$ <u>EXCOSTWCPWH</u>
Other West Coast species	<u>EXWTRWCOTHR</u> mt	<u>EXWTPWCOTHR</u> mt	\$ <u>EXCOSTWCOTH</u>

CMT18

19. Provide the total round weight of all fish processed by this mothership vessel in **All Fisheries** (West Coast, Alaska, and other) during 2011. Round to the nearest metric ton. *(This information will be used to allocate some of your expenditures between the West Coast and Alaska in order to avoid asking more detailed information about the vessel's activity in Alaska.)*

WTALL mt

CMT19

V. Annual Earnings

20. Provide the total weight and value of production in the **West Coast whiting fishery** during 2011. Report weights to the nearest metric ton.
- Do not include any additional payment you received to cover any shipping, handling, or storage costs associated with the sale beyond the FOB port of discharge.
 - Please include any post-season adjustments for products produced in 2011.
 - For products produced in 2011 and held in inventory at the end of the year, estimate the value on the basis of the average price received for similar products sold during the year.
 - Include products shipped to other establishments of your company.
 - Do not include revenue associated with fish caught in any fishery except the West Coast whiting fishery.

Type of Fish	Total Weight of Production	Total Value of Production
Whiting		
Surimi	RVWTPWHTSURI mt	\$ RVVALPWHTSUF
Fillets	RVWTPWHTFILL mt	\$ RVVALPWHTFILL
H&G	RVWTPWHTHG mt	\$ RVVALPWHTHG
Round (unprocessed)	RVWTPWHTRND mt	\$ RVVALPWHTRND
Fishmeal	RVWTPWHTFML mt	\$ RVVALPWHTFML
Fish oil	RVWTPWHTFOIL mt	\$ RVVALPWHTFOIL
Roe	RVWTPWHTROE mt	\$ RVVALPWHTROE
Minced	RVWTPWHTMINC mt	\$ RVVALPWHTMIN
Stomachs	RVWTPWHTSTOM mt	\$ RVVALPWHTSTC
Other: <u>RVPWHTOTHRNAM</u>	RVWTPWHTOTHR mt	\$ RVVALPWHTOTHR
Other Species		
All other species	RVWTOTHR mt	\$ RVVALOTHR

CMT20

21. Provide the percentage, by value, of all products off-loaded from this mothership vessel in the **West Coast whiting fishery** at each of the following locations. The column should sum to 100%.

Location	Percentage of Total Off-load Value
Seattle	PTSEA %
Blaine / Bellingham	PTBELL %
Port Angeles	PTPANG %
Astoria	PTASTO %
Coos Bay	PTCOOS %
Tacoma	PTTAC %
At sea (tramper)	PTATSEA %
Other: <u>PTOTHRNAM</u>	PTOTHR %

If more than one "Other" type was listed, Type out all of the types into the box above separating them with a semicolon. Do the same for the amounts and ensure the order is consistent

CMT21

22. Provide the revenue received during 2011 from the sale or lease of **West Coast whiting** mothership permits that were associated with this vessel.

Permits Purchased or Leased	Revenue Received
Sale of West Coast whiting mothership permits	\$ RVMSPSL
Lease of West Coast whiting mothership permits	\$ RVMSPSL

CMT22

23. Provide the revenue received during 2011 from the lease or bareboat charter of this mothership vessel.

\$ RVCHTR

CMT23

Questionnaire Comments:

CMTQU

H.4 First receiver and shorebased processor form

Economic Data Collection (EDC) Form



WEST COAST GROUND FISH FIRST RECEIVER AND SHOREBASED PROCESSOR 2011

NOAA Fisheries – Northwest Fisheries Science Center

Who is responsible for submitting.

- All owners of a first receiver site license in 2011; or
- All owners and lessees of a shore-based processor (as defined under "processor" at §660.11, subpart C, for purposes of EDC) that received round or headed-and-gutted IFQ species groundfish or whiting from a first receiver in 2011
- A separate EDC form is required for each processing facility.

Complete all questions. If a question is not applicable, write "NA" in the answer box. The survey will not be considered complete unless there is an answer to every question.

Submit by September 1, 2012. Completed and signed EDC forms must be mailed and postmarked by or hand-delivered to NMFS no later than September 1, 2012. Mail or deliver to

Economic Data Collection Program (FRAM Division),
Northwest Fisheries Science Center
2725 Montlake Boulevard East
Seattle, WA 98112

Retain a copy. Retain a copy of the completed form

Fillable forms and more information. www.nwfsc.noaa.gov/edc

Questions. Visit the website above or contact Erin Steiner at (866) 791-3726 or NWFSC.EDC@noaa.gov

Public Reporting Burden Statement

Public reporting burden for this collection of information is estimated to take 8 hours per response, including time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden to Erin Steiner, National Marine Fisheries Service, Northwest Fisheries Science Center, 2725 Montlake Blvd E, Seattle, WA 98112.

Additional Information

Before completing this form, please note the following: 1) Notwithstanding any other provision of the law, no person is required to respond to, nor shall any person be subject to a penalty for failure to comply with, a collection of information subject to the requirements of the Paperwork Reduction Act, unless that collection of information displays a currently valid OMB Control Number; 2) This information is mandatory and is required to manage commercial fishing efforts under 50 CFR part 660 and under section 402(a) of the Magnuson-Stevens Act (16 U.S.C. 1801, *et seq.*); 3) Responses to this information request are confidential under 402(b) of the Magnuson-Stevens Act (16 U.S.C. 1801, *et seq.*). They are also confidential under NOAA Administrative Order 216-100, which sets forth procedures to protect the confidentiality of fishery statistics.

I. Contact Information and Facility Characteristics

2011 FR

Survey_DBID

SURVEY_DBID

Initials

Overall Comments

INITS

CMT0A

1. Provide the buyer identification number issued by the state fish and game agencies associated with this entity or facility. Enter "NA" if this is a processing facility that does not have a buyer identification number.

Processor/Buyer IDs
Washington Department of Fish and Wildlife IDWDFW
Oregon Department of Fish and Wildlife IDODFW
California Department of Fish and Game IDCDFG

CMT01

2. Provide the following information about this receiving or processing facility.

Name of Facility FACNAM		First Receiver Site License Number for 2011 FACFRSL	
Business Mailing Address Street / PO Box FACADDR		Business Phone () FACPH	
		Business Fax () FACFAX	
City FACCCITY	State <small>FACST</small>	Zip Code FACZIP	Business Email FACEM

CMT02

3. **Individual completing this report.** If your address, phone, and email are provided above, you do not need to repeat them here but please provide your name and title.

Name ACCNAM		Title ACCTITLE	
Business Mailing Address Street / PO Box ACCADDR		Business Phone () ACCPH	
		Business Fax () ACCFAX	
City ACCACITY	State <small>ACCST</small>	Zip Code ACCZIP	Business Email ACCCEM

CMT03

4. Read the following statement, and sign and date the box below.

I certify under penalty of perjury that I have reviewed all the information in this questionnaire and that it is true and complete to the best of my knowledge.		
Signature	If the Survey was signed enter a "Y" if the Survey was not signed enter a "N"	Date signed
SIGNED		SIGMM / SIGDD / SIGYY mm dd yyyy

CMT04

5. Appraised value of facility

What was the year of this facility's last appraisal?	BUILDYY yyyy
What was the <i>market value</i> of this facility from the appraisal, rounded to the nearest 100 dollars?	\$ BUILDMRK
What was the <i>replacement value</i> of the facility from the appraisal, rounded to the nearest 100 dollars?	\$ BUILDRPL
Did the survey values given above include the value of all processing equipment* contained on-site?	BUILDPO

Use "Y" for Yes, "N" for No, and "-" for Not Applicable

CMT05

6. When did your 2011 fiscal year begin?

FSCMMM / FSCDDD / FSCLYY
mm dd yyyy

CMT06

Please report values from your 2011 fiscal year for the remainder of this survey.

II. Capitalized Expenditures

7. Provide the 2011 **capitalized expenditures** associated with the facility buildings, machinery, and equipment. Round all answers to the nearest 100 dollars.

Capitalized Expenditure Category	Total Capitalized Expenditures
Capitalized expenditures on buildings (exclude land but include building improvements)	\$ CXBUILD
Capitalized expenditures on new and used machinery and equipment (include only equipment used to process, transport† on-site, or store‡ fish on-site)	\$ CXMQ

* *Processing equipment*: All equipment present at this physical location that is used for preparation or packaging of seafood to render it suitable for human consumption, retail sale, industrial uses or long-term storage, including, but not limited to, cooking, canning, smoking, salting, drying, filleting, freezing, or rendering into meal or oil.
 † *Transportation equipment*: Equipment such as trucks, forklifts, etc. used to transport seafood within this physical location.
 ‡ *Storage equipment*: Equipment present at this physical location for packaging and freezing of seafood.

CMT07

III. Employees and Payroll

Provide the following information about the number of employees and wages. Include full and part-time employees and temporary employees working at this facility. The information is requested separately for production workers and all other employees, which are defined below.

8. Provide the number of **production workers** in the following table. **Production workers** include those workers at this facility (up through and including the line-supervisor level) engaged in fabricating, processing, assembling, inspecting, receiving, packing, warehousing, shipping, maintenance, repair, janitorial, product development, or transporting product on-site.

For the week including	Number of production workers (full time, part time, and temporary)	Total Hours Worked
January 12	EWKRNUMJAN workers	EWKRHRJAN hrs
February 12	EWKRNUMFEB workers	EWKRHRFEB hrs
March 12	EWKRNUMMAR workers	EWKRHRMAR hrs
April 12	EWKRNUMAPR workers	EWKRHRAPR hrs
May 12	EWKRNUMMAY workers	EWKRHRMAY hrs
June 12	EWKRNUMJUN workers	EWKRHRJUN hrs
July 12	EWKRNUMJUL workers	EWKRHRJUL hrs
August 12	EWKRNUMAUG workers	EWKRHRAUG hrs
September 12	EWKRNUMSEP workers	EWKRHRSEP hrs
October 12	EWKRNUMOCT workers	EWKRHROCT hrs
November 12	EWKRNUMNOV workers	EWKRHRNOV hrs
December 12	EWKRNUMDEC workers	EWKRHRDEC hrs

CMT08

9. Provide the **number of all other employees** in the following table. **All other employees** includes those involved in supervision above line-supervisor level, sales, advertising, credit, collection, installation, cafeteria, recordkeeping, clerical and routine office functions, guard services, executive, purchasing, finance, and legal. If hours are not tracked for salaried employees, please assume a 40 hour work week.

For the week including	Number of all other employees (full time, part time, and temporary)	Total Hours Worked
March 12	EEMPNUM employees	EEMPHR hrs

CMT09

10. Labor expenses for **production workers** and **all other employees** (include wages, bonuses, benefits, payroll taxes, and unemployment insurance)

Labor Expense Category	2011 Total Expenses
Production workers (see definition in Question 8)	\$ EXWKR _____
All other employees (see definition in Question 9)	\$ EXEMP _____

CMT10

IV. Selected Expenses and Depreciation

11. Quota Expenses

Purchase or Lease of Quota	2011 Total Expenses
Leasing of quota pounds	\$ EXQPLS _____
Purchases of quota pounds	\$ EXQPPU _____
Leasing of quota share	\$ EXQSLS _____
Purchases of quota share	\$ EXQSPU _____

CMT11

12. Utilities

Utility Expense Category	2011 Total Expenses
Electricity	\$ EXELECT _____
Natural gas	\$ EXNGAS _____
Propane gas for transportation and processing	\$ EXPROP _____
Nitrogen gas	\$ EXNITRO _____
Water	\$ EXWATER _____
Sewer, waste, and byproduct disposal	\$ EXSWRWASTE _____

CMT12

13. Rental or Lease Payments

Rental or Lease Payments	2011 Total Expenses
Rental or lease of buildings, job-site trailers, and other structures (including land)	\$ <u>EXBUILD</u>
Rental or lease of processing machinery or equipment	\$ <u>EXPQ</u>

CMT13

14. What did you spend on repair and maintenance on facility buildings, machinery, and equipment (see definitions on bottom of page 3) expensed in 2011?

\$ EXBUILDPQRM

CMT14

15. What was the total depreciation for all capital investments on buildings, new and used machinery and equipment (see definitions of equipment on page 3) taken in 2011?

\$ EXDEPR

CMT15

16. Provide the following information on 2011 **custom processing** of fish you owned that was performed by another processor outside of this facility.

	Total weight of fish supplied to custom processors	2011 Custom Processing Fees Paid
Whiting	<u>CUPRWPWHT</u> lbs	\$ <u>CUPRCOSTPWHT</u>
Non-Whiting Groundfish	<u>CUPRWTGRND</u> lbs	\$ <u>CUPRCOSTGRND</u>
Other	<u>CUPRWTOTHR</u> lbs	\$ <u>CUPRCOSTOTHR</u>

CMT16

17. Other Expenses

Expense Category	2011 Total Expenses
Shoreside monitoring costs	\$ <u>EXSSMONITOR</u>
Offloading expenses paid to other facilities	\$ <u>EXOFFLOAD</u>
Production supplies (boots, smocks, hair nets, knives ,etc.)	\$ <u>EXPRODSUPP</u>
Cleaning and custodial supplies	\$ <u>EXCLEANSUPP</u>
Packing materials	\$ <u>EXPKG</u>
Freight costs for supplies to the facility	\$ <u>EXFRGT</u>
Non-fish ingredients (additives)	\$ <u>EXADTVS</u>
Off-site product freezing and storage	\$ <u>EXOFFSITE</u>
Insurance payments (property, product, and personal liability)	\$ <u>EXINSPROPWRK</u>
Taxes (property and excise)	\$ <u>EXTAXES</u>
Licensing fees	\$ <u>EXLICFEES</u>
Other Specify <u>EXOTHRNAM</u>	\$ <u>EXOTHR</u>

If more than one "Other" type was listed, Type out all of the types into the box above separating them with a semicolon. Do the same for the amounts and ensure the order is consistent

CMT17

18. Provide the following information about the landing origin of groundfish purchases received at this facility in 2011. If this information is not available, place an "NA" in the answer box.

Landing Origin	Total Weight of Groundfish Purchased	Total Cost of Groundfish Purchased
Whiting		
West Coast (WA, OR, CA)	<u>GRWTWCPWHT</u> lbs	\$ <u>GRCOSTWCPWHT</u>
Canada	<u>GRWTCNPWHT</u> lbs	\$ <u>GRCOSTCNPWHT</u>
Other Specify <u>GROTHRPWHTNAM</u>	<u>GRWTOTHRPWHT</u> lbs	\$ <u>GRCOSTOTHRPWHT</u>
Non-whiting groundfish		
West Coast (WA, OR, CA)	<u>GRWTWCGRND</u> lbs	\$ <u>GRCOSTWCGRND</u>
Alaska (excluding pollock)	<u>GRWTAKGRND</u> lbs	\$ <u>GRCOSTAKGRND</u>
Canada	<u>GRWTCNGRND</u> lbs	\$ <u>GRCOSTCNGRND</u>
Other Specify <u>GROTHRGRNDNAM</u>	<u>GRWTOTHRGRND</u> lbs	\$ <u>GRCOSTOTHRGRND</u>

CMT18

19. **Fish Received.** In the table below provide the weight and cost of fish received in 2011. Please note that there are separate columns for fish that were not paid for and fish that were paid for.

- Do not include fish received for custom processing.
- Include fish purchased by you that are custom processed by another processor outside of this facility.
- Include any post season adjustments.
- **LE Trawl Vessels:** fish acquired directly from a vessel registered to a Limited Entry (LE) permit with a trawl endorsement and caught either with trawl or fixed gear.
- **LE Fixed Gear Vessels:** fish acquired directly from a vessel registered to a LE permit with a fixed gear endorsement. Do not include fish caught with fixed gear using a LE permit with a trawl endorsement.
- **Other Vessels:** fish acquired directly from a vessel without a limited entry trawl or fixed gear endorsement, including open access fisheries
- **Non-Vessel Sources:** includes fish acquired from other entities, including first receivers, processors, wholesale dealers, brokers, aquaculture producers, and transfers from outside this facility.
- **Gross Cost of Fish Paid for** includes the value of any taxes paid on behalf of delivering vessels.

Type and Source of Fish	Fish NOT PAID for		Fish PAID for	
	Total weight not paid for due to quality or size reasons	Total weight not paid for transfers from outside this facility	Total weight of fish paid for from vessels or non-vessel sources	Gross cost of fish paid for from vessels or non-vessel sources
Whiting				
LE Trawl Vessels	PUWTRPWHTLET lbs		PUWTPPWHTLET lbs	\$ PUCOSTPWHTLET
LE Fixed Gear Vessels	PUWTRPWHTLEF lbs		PUWTPPWHTLEF lbs	\$ PUCOSTPWHTLEF
Other Vessels	PUWTRPWHTOV lbs		PUWTPPWHTOV lbs	\$ PUCOSTPWHTOV
Non-Vessel Sources	PUWTRPWHTNV lbs	PUWTPPWHTNV lbs	PUWTPPWHTNV lbs	\$ PUCOSTPWHTNV
Arrowtooth flounder				
LE Trawl Vessels	PUWTRARTHLET lbs		PUWTPARTHLET lbs	\$ PUCOSTARTHLET
LE Fixed Gear Vessels	PUWTRARTHLEF lbs		PUWTPARTHLEF lbs	\$ PUCOSTARTHLEF
Other Vessels	PUWTRARTHOV lbs		PUWTPARTHOV lbs	\$ PUCOSTARTHOV
Non-Vessel Sources	PUWTRARTHNV lbs	PUWTPARTHNV lbs	PUWTPARTHNV lbs	\$ PUCOSTARTHNV
Dover sole				
LE Trawl Vessels	PUWTRDOVRLET lbs		PUWTPDOVRLET lbs	\$ PUCOSTDOVRLET
LE Fixed Gear Vessels	PUWTRDOVRLEF lbs		PUWTPDOVRLEF lbs	\$ PUCOSTDOVRLEF
Other Vessels	PUWTRDOVROV lbs		PUWTPDOVROV lbs	\$ PUCOSTDOVROV
Non-Vessel Sources	PUWTRDOVRNV lbs	PUWTPDOVRNV lbs	PUWTPDOVRNV lbs	\$ PUCOSTDOVRNV
English sole				
LE Trawl Vessels	PUWTREGLSLET lbs		PUWTPEGLSLET lbs	\$ PUCOSTEGLSLET
LE Fixed Gear Vessels	PUWTREGLSLEF lbs		PUWTPEGLSLEF lbs	\$ PUCOSTEGLSLEF
Other Vessels	PUWTREGLSOV lbs		PUWTPEGLSOV lbs	\$ PUCOSTEGLSOV
Non-Vessel Sources	PUWTREGLSNV lbs	PUWTTEGLSNV lbs	PUWTPEGLSNV lbs	\$ PUCOSTEGLSNV
Lingcod				
LE Trawl Vessels	PUWTRLCODLET lbs		PUWTPLCODLET lbs	\$ PUCOSTLCODLET
LE Fixed Gear Vessels	PUWTRLCODLEF lbs		PUWTPLCODLEF lbs	\$ PUCOSTLCODLEF
Other Vessels	PUWTRLCODOV lbs		PUWTPLCODOV lbs	\$ PUCOSTLCODOV
Non-Vessel Sources	PUWTRLCODNV lbs	PUWTPLCODNV lbs	PUWTPLCODNV lbs	\$ PUCOSTLCODNV

19. (Continued)

Type and Source of Fish	Fish NOT PAID for		Fish PAID for	
	Total weight not paid for due to quality or size reasons	Total weight not paid for transfers from outside this facility	Total weight of fish paid for from vessels or non-vessel sources	Gross cost of fish paid for from vessels or non-vessel sources
Pacific sanddab				
LE Trawl Vessels	PUWTRUDABLET lbs		PUWTPUDABLET lbs	\$ PUCOSTUDABLET
LE Fixed Gear Vessels	PUWTRUDABLEF lbs		PUWTPUDABLEF lbs	\$ PUCOSTUDABLEF
Other Vessels	PUWTRUDABOV lbs		PUWTPUDABOV lbs	\$ PUCOSTUDABOV
Non-Vessel Sources	PUWTRUDABNV lbs	PUWTTUDABNV lbs	PUWTPUDABNV lbs	\$ PUCOSTUDABNV
Petrале sole				
LE Trawl Vessels	PUWTRPTRLLET lbs		PUWTPPTRLLET lbs	\$ PUCOSTPTRLLET
LE Fixed Gear Vessels	PUWTRPTRLLEF lbs		PUWTPPTRLLEF lbs	\$ PUCOSTPTRLLEF
Other Vessels	PUWTRPTRLLOV lbs		PUWTPPTRLLOV lbs	\$ PUCOSTPTRLLOV
Non-Vessel Sources	PUWTRPTRLNV lbs	PUWTPPTRLNV lbs	PUWTPPTRLNV lbs	\$ PUCOSTPTRLNV
Rex sole				
LE Trawl Vessels	PUWTRREXLET lbs		PUWTPREXLET lbs	\$ PUCOSTREXLET
LE Fixed Gear Vessels	PUWTRREXLEF lbs		PUWTPREXLEF lbs	\$ PUCOSTREXLEF
Other Vessels	PUWTRREXOV lbs		PUWTPREXOV lbs	\$ PUCOSTREXOV
Non-Vessel Sources	PUWTRREXNV lbs	PUWTPREXNV lbs	PUWTPREXNV lbs	\$ PUCOSTREXNV
Rockfish				
LE Trawl Vessels	PUWTRROCKLET lbs		PUWTPROCKLET lbs	\$ PUCOSTROCKLET
LE Fixed Gear Vessels	PUWTRROCKLEF lbs		PUWTPROCKLEF lbs	\$ PUCOSTROCKLEF
Other Vessels	PUWTRROCKOV lbs		PUWTPROCKOV lbs	\$ PUCOSTROCKOV
Non-Vessel Sources	PUWTRROCKNV lbs	PUWTPROCKNV lbs	PUWTPROCKNV lbs	\$ PUCOSTROCKNV
Sablefish (black cod)				
LE Trawl Vessels	PUWTRSABLLET lbs		PUWTPSABLLET lbs	\$ PUCOSTSABLLET
LE Fixed Gear Vessels	PUWTRSABLLEF lbs		PUWTPSABLLEF lbs	\$ PUCOSTSABLLEF
Other Vessels	PUWTRSABLLOV lbs		PUWTPSABLLOV lbs	\$ PUCOSTSABLLOV
Non-Vessel Sources	PUWTRSABLNV lbs	PUWTPSABLNV lbs	PUWTPSABLNV lbs	\$ PUCOSTSABLNV
Thornyheads				
LE Trawl Vessels	PUWTRTHDSLET lbs		PUWTPTHDSLET lbs	\$ PUCOSTTHDSLET
LE Fixed Gear Vessels	PUWTRTHDSLEF lbs		PUWTPTHDSLEF lbs	\$ PUCOSTTHDSLEF
Other Vessels	PUWTRTHDSOV lbs		PUWTPTHDSOV lbs	\$ PUCOSTTHDSOV
Non-Vessel Sources	PUWTRTHDSNV lbs	PUWTPTHDSNV lbs	PUWTPTHDSNV lbs	\$ PUCOSTTHDSNV
Sharks, skates, rays				
LE Trawl Vessels	PUWTRSHRKLET lbs		PUWTPSHRKLET lbs	\$ PUCOSTSHRKLET
LE Fixed Gear Vessels	PUWTRSHRKLEF lbs		PUWTPSHRKLEF lbs	\$ PUCOSTSHRKLEF
Other Vessels	PUWTRSHRKOV lbs		PUWTPSHRKOV lbs	\$ PUCOSTSHRKOV
Non-Vessel Sources	PUWTRSHRKNV lbs	PUWTPSHRKNV lbs	PUWTPSHRKNV lbs	\$ PUCOSTSHRKNV
Coastal pelagic (include sardines and mackerel)				
Vessel Sources	PUWTRCPELV lbs		PUWTPCPELV lbs	\$ PUCOSTCPELV
Non-Vessel Sources	PUWTRCPELV lbs	PUWTPCPELV lbs	PUWTPCPELV lbs	\$ PUCOSTCPELV

19. (Continued)

Type and Source of Fish	Fish NOT PAID for		Fish PAID for	
	Total weight not paid for due to quality or size reasons	Total weight not paid for transfers from outside this facility	Total weight of fish paid for from vessels or non-vessel sources	Gross cost of fish paid for from vessels or non-vessel sources
Crab				
Vessel Sources	<u>PUWTRCRABV lbs</u>		<u>PUWTPCRABV lbs</u>	<u>\$ PUCOSTCRABV</u>
Non-Vessel Sources	<u>PUWTRCRABNV lbs</u>	<u>PUWTTCRABNV lbs</u>	<u>PUWTPCRABNV lbs</u>	<u>\$ PUCOSTCRABNV</u>
Echinoderms (include sea urchins and sea cucumbers)				
Vessel Sources	<u>PUWTRECHNV lbs</u>		<u>PUWTPECHNV lbs</u>	<u>\$ PUCOSTECHNV</u>
Non-Vessel Sources	<u>PUWTRECHNNV lbs</u>	<u>PUWTTECHNNV lbs</u>	<u>PUWTPECHNNV lbs</u>	<u>\$ PUCOSTECHNNV</u>
California Halibut				
Vessel Sources	<u>PUWTRCHLBV lbs</u>		<u>PUWTPCHLBV lbs</u>	<u>\$ PUCOSTCHLBV</u>
Non-Vessel Sources	<u>PUWTRCHLBNV lbs</u>	<u>PUWTTCHLBNV lbs</u>	<u>PUWTPCHLBNV lbs</u>	<u>\$ PUCOSTCHLBNV</u>
Pacific Halibut				
Vessel Sources	<u>PUWTRPHLBV lbs</u>		<u>PUWTPPHLBV lbs</u>	<u>\$ PUCOSTPHLBV</u>
Non-Vessel Sources	<u>PUWTRPHLBNV lbs</u>	<u>PUWTTPHLBNV lbs</u>	<u>PUWTPPHLBNV lbs</u>	<u>\$ PUCOSTPHLBNV</u>
Herring				
Vessel Sources	<u>PUWTRPHRGV lbs</u>		<u>PUWTPPHRGV lbs</u>	<u>\$ PUCOSTPHRGV</u>
Non-Vessel Sources	<u>PUWTRPHRGNV lbs</u>	<u>PUWTTPHRGNV lbs</u>	<u>PUWTPPHRGNV lbs</u>	<u>\$ PUCOSTPHRGNV</u>
Salmon				
Vessel Sources	<u>PUWTRSAMNV lbs</u>		<u>PUWTPSAMNV lbs</u>	<u>\$ PUCOSTSAMNV</u>
Non-Vessel Sources	<u>PUWTRSAMNNV lbs</u>	<u>PUWTTSAMNNV lbs</u>	<u>PUWTPSAMNNV lbs</u>	<u>\$ PUCOSTSAMNNV</u>
Shrimp				
Vessel Sources	<u>PUWTRSMPV lbs</u>		<u>PUWTPSRMPV lbs</u>	<u>\$ PUCOSTSRMPV</u>
Non-Vessel Sources	<u>PUWTRSMPNV lbs</u>	<u>PUWTTSRMPNV lbs</u>	<u>PUWTPSRMPNV lbs</u>	<u>\$ PUCOSTSRMPNV</u>
Squid				
Vessel Sources	<u>PUWTRSOIDV lbs</u>		<u>PUWTPSOIDV lbs</u>	<u>\$ PUCOSTSOIDV</u>
Non-Vessel Sources	<u>PUWTRSOIDNV lbs</u>	<u>PUWTTSOIDNV lbs</u>	<u>PUWTPSOIDNV lbs</u>	<u>\$ PUCOSTSOIDNV</u>
Sturgeon				
Vessel Sources	<u>PUWTRSTRGV lbs</u>		<u>PUWTPSTRGV lbs</u>	<u>\$ PUCOSTSTRGV</u>
Non-Vessel Sources	<u>PUWTRSTRGNV lbs</u>	<u>PUWTTSTRGNV lbs</u>	<u>PUWTPSTRGNV lbs</u>	<u>\$ PUCOSTSTRGNV</u>
Tuna				
Vessel Sources	<u>PUWTRTUNAV lbs</u>		<u>PUWTPTUNAV lbs</u>	<u>\$ PUCOSTTUNAV</u>
Non-Vessel Sources	<u>PUWTRTUNANV lbs</u>	<u>PUWTTTUNANV lbs</u>	<u>PUWTPTUNANV lbs</u>	<u>\$ PUCOSTTUNANV</u>
Other Shellfish				
Vessel Sources	<u>PUWTRSFSHV lbs</u>		<u>PUWTPSFSHV lbs</u>	<u>\$ PUCOSTSFSHV</u>
Non-Vessel Sources	<u>PUWTRSFSHNV lbs</u>	<u>PUWTTSFSHNV lbs</u>	<u>PUWTPSFSHNV lbs</u>	<u>\$ PUCOSTSFSHNV</u>
Other Species (please list)				
<u>PUOSPCOTHRNAM</u>				
Vessel Sources	<u>PUWTRQSPCV lbs</u>		<u>PUWTPQSPCV lbs</u>	<u>\$ PUCOSTQSPCV</u>
Non-Vessel Sources	<u>PUWTRQSPCNV lbs</u>	<u>PUWTTQSPCNV lbs</u>	<u>PUWTPQSPCNV lbs</u>	<u>\$ PUCOSTQSPCNV</u>

CMT19

V. Annual Earnings

20. **Fish Production.** Provide the 2011 value of production FOB plant (after discounts and allowances and excluding freight charges).

- For products made during 2011 and held in inventory at the end of the year, estimate the value on the basis of the average price received for similar products sold during the year
- Include products shipped to other facilities of your company, estimate the value on the basis of the average price received for similar products sold during the year
- Do not include revenue from products produced in previous years
- Include products made from custom processing performed for you, but do not include products you produced as a custom processing service for others
- Do not include any additional payment you received to cover any shipping, handling, or storage costs associated with the sale beyond the plant
- Include any post-season adjustments

Type of Fish	Total <u>weight</u> of 2011 fish production (both processed and unprocessed)	Total <u>value</u> of 2011 fish production (both processed and unprocessed)
Whiting		
Surimi	PRWTPWHTSURI lbs	\$ PRVALPWHTSURI
H&G	PRWTPWHTHG lbs	\$ PRVALPWHTHG
Fillets	PRWTPWHTFILL lbs	\$ PRVALPWHTFILL
Roe	PRWTPWHTROE lbs	\$ PRVALPWHTROE
Frozen Whole	PRWTPWHTFRZN lbs	\$ PRVALPWHTFRZN
Unprocessed	PRWTPWHTUNP lbs	\$ PRVALPWHTUNP
Other PRPWHTOTHNAM	PRWTPWHTOTHR lbs	\$ PRVALPWHTOTHR
Arrowtooth flounder		
Processed Fresh	PRWTARTHFRSH lbs	\$ PRVALARTHFRSH
Frozen	PRWTARTHFRZN lbs	\$ PRVALARTHFRZN
Unprocessed	PRWTARTHUNP lbs	\$ PRVALARTHUNP
Other PRARTHOTHNAM	PRWTARTHOTHR lbs	\$ PRVALARTHOTHR
Dover sole		
Processed Fresh	PRWDOVFRSH lbs	\$ PRVALDOVFRSH
Frozen	PRWDOVFRZN lbs	\$ PRVALDOVFRZN
Unprocessed	PRWDOVRUNP lbs	\$ PRVALDOVRUNP
Other PRDOVROTHNAM	PRWDOVROTHR lbs	\$ PRVALDOVROTHR
English Sole		
Processed Fresh	PRWTEGLSFRSH lbs	\$ PRVALEGLSFRSH
Frozen	PRWTEGLSFRZN lbs	\$ PRVALEGLSFRZN
Unprocessed	PRWTEGLSUNP lbs	\$ PRVALEGLSUNP
Other PREGLSOTHNAM	PRWTEGLSOTHR lbs	\$ PRVALEGLSOTHR
Lingcod		
Processed Fresh	PRWTLCODFRSH lbs	\$ PRVALLCODFRSH
Frozen	PRWTLCODFRZN lbs	\$ PRVALLCODFRZN
Unprocessed	PRWTLCODUNP lbs	\$ PRVALLCODUNP
Other PRLCODOTHNAM	PRWTLCODOTHR lbs	\$ PRVALLCODOTHR

20. (Continued)

Type of Fish	Total weight of 2011 fish production (both processed and unprocessed)		Total value of 2011 fish production (both processed and unprocessed)
Pacific Sanddab			
Processed Fresh	PRWTUDABFRSH	lbs	\$ PRVALUDABFRSH
Frozen	PRWTUDABFRZN	lbs	\$ PRVALUDABFRZN
Unprocessed	PRWTUDABUNP	lbs	\$ PRVALUDABUNP
Other PRUDABOTHRNAM	PRWTUDABOTHR	lbs	\$ PRVALUDABOTHR
Petrale sole			
Processed Fresh	PRWTPTRLFRSH	lbs	\$ PRVALPTRLFRSH
Frozen	PRWTPTRLFRZN	lbs	\$ PRVALPTRLFRZN
Unprocessed	PRWTPTRLUNP	lbs	\$ PRVALPTRLUNP
Other PRPTRLOTHRNAM	PRWTPTRLOTHR	lbs	\$ PRVALPTRLOTHR
Rex sole			
Processed Fresh	PRWTREXFRSH	lbs	\$ PRVALREXFRSH
Frozen	PRWTREXFRZN	lbs	\$ PRVALREXFRZN
Unprocessed	PRWTREXUNP	lbs	\$ PRVALREXUNP
Other PRREXOTHRNAM	PRWTREXOTHR	lbs	\$ PRVALREXOTHR
Rockfish			
Processed Fresh	PRWTRCKFRSH	lbs	\$ PRVALRCKFRSH
Frozen	PRWTRCKFRZN	lbs	\$ PRVALRCKFRZN
Unprocessed	PRWTRCKUNP	lbs	\$ PRVALRCKUNP
Other PRRCKOTHRNAM	PRWTRCKOTHR	lbs	\$ PRVALRCKOTHR
Sablefish			
Processed Fresh	PRWTSABLFRSH	lbs	\$ PRVALSABLFRSH
Frozen	PRWTSABLFRZN	lbs	\$ PRVALSABLFRZN
Unprocessed	PRWTSABLUNP	lbs	\$ PRVALSABLUNP
Other PRSABLOTHRNAM	PRWTSABLOTHR	lbs	\$ PRVALSABLOTHR
Thornyheads			
Processed Fresh	PRWTHDSFRSH	lbs	\$ PRVALTHDSFRSH
Frozen	PRWTHDSFRZN	lbs	\$ PRVALTHDSFRZN
Unprocessed	PRWTHDSUNP	lbs	\$ PRVALTHDSUNP
Other PRTHDSOTHRNAM	PRWTHDSOTHR	lbs	\$ PRVALTHDSOTHR
Sharks, Skates, Rays			
Processed Fresh	PRWTSHRKFRSH	lbs	\$ PRVALSHRKFRSH
Frozen	PRWTSHRKFRZN	lbs	\$ PRVALSHRKFRZN
Unprocessed	PRWTSHRKUNP	lbs	\$ PRVALSHRKUNP
Other PRSHRKOTHRNAM	PRWTSHRKOTHR	lbs	\$ PRVALSHRKOTHR
Coastal pelagic (include sardines and mackerel)			
Processed Fresh	PRWTCPELFRSH	lbs	\$ PRVALCPELFRSH
Frozen	PRWTCPELFRZN	lbs	\$ PRVALCPELFRZN
Canned	PRWTCPELCAN	lbs	\$ PRVALCPELCAN
Unprocessed	PRWTCPELUNP	lbs	\$ PRVALCPELUNP
Other PRCPPELOTHRNAM	PRWTCPELOTHR	lbs	\$ PRVALCPELOTHR

Type of Fish	Total weight of 2011 fish production (both processed and unprocessed)	Total value of 2011 fish production (both processed and unprocessed)
Crab		
Processed Fresh	PRWTCRABFRSH lbs	\$ PRVALCRABFRSH
Frozen	PRWTCRABFRZN lbs	\$ PRVALCRABFRZN
Canned	PRWTCRABCAN lbs	\$ PRVALCRABCAN
Unprocessed	PRWTCRABUNP lbs	\$ PRVALCRABUNP
Other PRCRABOTHRNAM	PRWTCRABOTHR lbs	\$ PRVALCRABOTHR
Echinoderms (include sea urchins and sea cucumbers)		
Processed Fresh	PRWTECHNFRSH lbs	\$ PRVALECHNFRSH
Frozen	PRWTECHNFRZN lbs	\$ PRVALECHNFRZN
Unprocessed	PRWTECHNUNP lbs	\$ PRVALECHNUNP
Other PRECHNOTHRNAM	PRWTECHNOTHR lbs	\$ PRVALECHNOTHR
California Halibut		
Processed Fresh	PRWTCHLBFRSH lbs	\$ PRVALCHLBFRSH
Frozen	PRWTCHLBFRZN lbs	\$ PRVALCHLBFRZN
Unprocessed	PRWTCHLBUNP lbs	\$ PRVALCHLBUNP
Other PRCHLBOTHRNAM	PRWTCHLBOTHR lbs	\$ PRVALCHLBOTHR
Pacific Halibut		
Processed Fresh	PRWTPHLBFRSH lbs	\$ PRVALPHLBFRSH
Frozen	PRWTPHLBFRZN lbs	\$ PRVALPHLBFRZN
Unprocessed	PRWTPHLBUNP lbs	\$ PRVALPHLBUNP
Other PRPHLBOTHRNAM	PRWTPHLBOTHR lbs	\$ PRVALPHLBOTHR
Herring		
Processed Fresh	PRWTPHRGFRSH lbs	\$ PRVALPHRGFRSH
Frozen	PRWTPHRGFRZN lbs	\$ PRVALPHRGFRZN
Unprocessed	PRWTPHRGUNP lbs	\$ PRVALPHRGUNP
Other PRPHRGOTHRNAM	PRWTPHRGOTHR lbs	\$ PRVALPHRGOTHR
Salmon		
Processed Fresh	PRWTSAMNFRSH lbs	\$ PRVALSAMNFRSH
Frozen	PRWTSAMNFRZN lbs	\$ PRVALSAMNFRZN
Smoked	PRWTSAMNSM lbs	\$ PRVALSAMNSM
Canned	PRWTSAMNCAN lbs	\$ PRVALSAMNCAN
Unprocessed	PRWTSAMNUNP lbs	\$ PRVALSAMNUNP
Other PRSAMNOTHRNAM	PRWTSAMNOTHR lbs	\$ PRVALSAMNOTHR
Shrimp		
Processed Fresh	PRWTSRMPFRSH lbs	\$ PRVALSRMPFRSH
Frozen	PRWTSRMPFRZN lbs	\$ PRVALSRMPFRZN
Canned	PRWTSRMPCAN lbs	\$ PRVALSRMPCAN
Unprocessed	PRWTSRMPUNP lbs	\$ PRVALSRMPUNP
Other PRSRMPOTHRNAM	PRWTSRMPOTHR lbs	\$ PRVALSRMPOTHR

20. (Continued)

Type of Fish	Total weight of 2011 fish production (both processed and unprocessed)	Total value of 2011 fish production (both processed and unprocessed)
Squid		
Processed Fresh	PRWTSQIDFRSH lbs	\$ PRVALSQIDFRSH
Frozen	PRWTSQIDFRZN lbs	\$ PRVALSQIDFRZN
Unprocessed	PRWTSQIDUNP lbs	\$ PRVALSQIDUNP
Other PRSQIDOTHNAM	PRWTSQIDQTHR lbs	\$ PRVALSQIDQTHR
Sturgeon		
Processed Fresh	PRWTSTRGFRSH lbs	\$ PRVALSTRGFRSH
Frozen	PRWTSTRGFRZN lbs	\$ PRVALSTRGFRZN
Canned	PRWTSTRGCAN lbs	\$ PRVALSTRGCAN
Unprocessed	PRWTSTRGUNP lbs	\$ PRVALSTRGUNP
Other PRSTRGOTHNAM	PRWTSTRGOTHR lbs	\$ PRVALSTRGOTHR
Tuna		
Processed Fresh	PRWTTUNAFRSH lbs	\$ PRVALTUNAFRSH
Frozen	PRWTTUNAFRZN lbs	\$ PRVALTUNAFRZN
Canned	PRWTTUNACAN lbs	\$ PRVALTUNACAN
Unprocessed	PRWTTUNAUNP lbs	\$ PRVALTUNAUNP
Other PRTUNAOTHNAM	PRWTTUNACTHR lbs	\$ PRVALTUNAQTHR
Other Shellfish		
Processed Fresh	PRWTSFSHFRSH lbs	\$ PRVALSFSHFRSH
Frozen	PRWTSFSHFRZN lbs	\$ PRVALSFSHFRZN
Unprocessed	PRWTSFSHUNP lbs	\$ PRVALSFSHUNP
Other PRSFSHOTHRNAM	PRWTSFSHOTHR lbs	\$ PRVALSFSHOTHR
Other Non-Species Specific Products		
Fish Meal	PRWTNSPCFML lbs	\$ PRVALNSPCFML
Fish Oil	PRWTNSPCFOIL lbs	\$ PRVALNSPCFOIL
Bait	PRWTNSPCBAIT lbs	\$ PRVALNSPCBAIT
Other products	PRWTNSPCOTHR lbs	\$ PRVALNSPCOTHR
Other Species (please list)		
PROSPCOTHNAM	PRWTOSPCOTHR lbs	\$ PRVALOSPCOTHR

CMT20

VI. Other Earnings

21. Provide the revenue received by you for **custom processing** of fish owned by another processor outside of this facility in 2011.

	2011 Custom Processing Revenue
Whiting	\$ CUPRVALPWHT _____
Non-Whiting Groundfish	\$ CUPRVALGRND _____
Other	\$ CUPRVALOTHR _____

CMT21

22. Provide the revenue received in 2011 for each of the earnings sources listed below.

Earnings Source	2011 Total Revenue
Offloading earnings received from others	\$ RVOFFLOAD _____
Sale of quota pounds	\$ RVQPSL _____
Leasing of quota pounds	\$ RVQPLS _____
Leasing of quota share	\$ RVQSLS _____
Sale of quota share	\$ RVQSSL _____

CMT22

Questionnaire Comments:

CMTQU