PACIFIC ISLANDS FISHERIES SCIENCE CENTER

Fishery Statistics of the Western Pacific

Volume 31

Territory of American Samoa (2014) Commonwealth of the Northern Mariana Islands (2014) Territory of Guam (2014) State of Hawaii (2014)

Compiled by
M. Kimberly Lowe, Michael M. C. Quach, Karen R. Brousseau
Ashley S. Tomita and Toby E. Matthews

August 2016

Administrative Report H-16-09 doi:10.25923/2mzx-tv66



About this report

Pacific Islands Fisheries Science Center Administrative Reports are issued to promptly disseminate scientific and technical information to marine resource managers, scientists, and the general public. Their contents cover a range of topics, including biological and economic research, stock assessment, trends in fisheries, and other subjects. Administrative Reports typically have not been reviewed outside the Center. As such, they are considered informal publications. The material presented in Administrative Reports may later be published in the formal scientific literature after more rigorous verification, editing, and peer review.

Other publications are free to cite Administrative Reports as they wish provided the informal nature of the contents is clearly indicated and proper credit is given to the author(s).

Administrative Reports may be cited as follows:

M. K. Lowe, M.M.C. Quach, K.R. Brousseau, A.S. Tomita and T.E. Matthews. 2014. Fishery Statistics of the Western Pacific, Volume 31. Pacific Islands Fish. Sci. Cent., Natl. Mar. Fish. Serv., NOAA, Honolulu, HI 96822-2396. Pacific Islands Fish. Sci. Cent. Admin. Rep. H-16-09, var. p. https://doi.org/10.25923/2mzx-tv66

For further information, direct inquiries to:

Chief, Scientific Information Services
Pacific Islands Fisheries Science Center
National Marine Fisheries Service
National Oceanic and Atmospheric Administration
U.S. Department of Commerce
1845 Wasp Boulevard
Building 176
Honolulu, Hawaii 96818-5007

Phone: 808-725-5331 Fax: 808-725-5532

Pacific Islands Fisheries Science Center Administrative Report H-16-09

Fishery Statistics of the Western Pacific

Volume 31

Territory of American Samoa (2014) Commonwealth of the Northern Mariana Islands (2014) Territory of Guam (2014) State of Hawaii (2014)

Compiled By

M. Kimberly Lowe¹, Michael M. C. Quach¹, Karen R. Brousseau² Ashley S. Tomita², and Toby E. Mathews²

> ¹National Marine Fisheries Service Pacific Islands Fisheries Science Center 1845 Wasp Boulevard, Honolulu, Hawaii 96818-5007

> ²Joint Institute for Marine and Atmospheric Research 1000 Pope Road University of Hawaii, Manoa Honolulu, Hawaii 96822

> > August 2016

CONTENTS

Introduction			Page
inci oddetion	Caveats		2
	Definitions of Species Categories		3
	Graphs		4
Section A:	American Samoa		
	Introduction		A.1
	Data Collection Programs		A.2
	Data Processing		A.8
	Data Reporting		A.10
	Species Categories		A.10
	Interpretation of Statistics		A.14
	Tables		A.16
	Figures		A.47
Section B:	Commonwealth of the Northern Mariana Islands		
	Introduction		B.1
	Data Collection		B.2
	Data Processing		B.6
	Data Reporting		B.6
	Species Categories		B.7
	Tables		B.12
	Figures		B.35
Section C:	Guam		
	Introduction		C.1
	Data Collection		C.2
	Data Processing		C.6
	Data Reporting		C.6
	Species Categories		C.7
	Tables		C.12
	Figures		C.36
Section D:	State of Hawaii		
	Introduction		D.1
	Northwestern Hawaii Islands Marine National Monument	D.1	D.3
	Data Collection		D.4
	Civil Resources Violation System		D.5
	Data Processing		D.6
	Data Reporting		D.6
	Species Categories		D.7
Section D:	State of Hawaii (continued)		Page
	Tables		D.13
	Figures		D.65

PREFACE

There is an increasing worldwide demand for data and information relating to marine fisheries, in order to ensure their sustainable harvest and management. To help meet this need in the central and western Pacific areas, the National Marine Fisheries Service's (NMFS) Southwest Fisheries Science Center (SWFSC), Honolulu Laboratory initiated the Western Pacific Fisheries Information Network (WPacFIN) in the early 1980s. WPacFIN is a partnership of fisheries agencies from across the US Pacific islands, which serves as a centralized data warehouse and assists the agencies in improving their data collecting, processing, and reporting capabilities.

In 1982, WPacFIN partner agencies (page 1) formed a Fisheries Data Coordinating Committee (FDCC), which delegated a FDCC Technical Subcommittee to help guide, coordinate, and plan WPacFIN fisheries data-related projects and activities. Over the ensuing decades, all participating agencies have made significant progress, particularly in the area of upgrading data collection and processing systems.

In May 1985, the FDCC took a big step towards improving and coordinating data reporting and distribution systems of the agencies, and agreed to produce a combined document that would report each island's major fisheries statistics. Production of the document would be the responsibility of the FDCC Technical Subcommittee and would be coordinated by the WPacFIN Program Manager. Each agency agreed to supply the data required to produce the tables and graphs for its respective section, and WPacFIN centralized staff (in Honolulu) would produce and distribute the document as part of the Administrative Report Series.

In April 2003, NMFS created a new Pacific Islands Region (PIR) comprised of the Pacific Islands Fisheries Science Center (PIFSC, formerly SWFSC's Honolulu Laboratory) and the Pacific Islands Regional Office (PIRO, formerly Southwest Regional Office's Pacific Islands Area Office). The reorganization placed this statistical report under affiliation with PIFSC, as opposed to with SWFSC.

Although the FDCC was formally discontinued in April 2015, the functions fulfilled by that body are now met via working groups, technical meetings, site visits, multi-media conferencing (telecom, webinar, etc.), and occasional workshops. The need for a consolidated annual summary publication for the US-associated Pacific islands also persists.

This is the 31st volume in the series, "Fishery Statistics of the Western Pacific". It contains summaries of commercial landings for American Samoa, the Commonwealth of the Northern Mariana Islands, Guam, and Hawaii for the year 2014. As with previous volumes, it has four sections, one for each of the major island areas. Each section contains reports regarding monthly and annual commercial landings by species and/or major groups.

INTRODUCTION

Fisheries agency and industry partners participating in the Western Pacific Fisheries Information Network (WPacFIN), a collaborative fisheries data collection network that includes Hawaii, Guam, the Commonwealth of the Northern Mariana Islands (CNMI), and American Samoa, compiled the data in this report. WPacFIN's goal is to improve access to and dissemination of fisheries information. Participating agencies include the following:

	Department of Marine and Wildlife Resources (DMWR)
American Samoa	NOAA Pacific Islands Regional Office (PIRO), Fisheries Monitoring Field Office and Observer Program, American Samoa
Commonwealth of the Northern Mariana Islands (CNMI)	Department of Lands and Natural Resources, Division of Fish and Wildlife (DFW)
	Department of Agriculture, Division of Aquatic and Wildlife Resources (DAWR)
Guam	Bureau of Statistics and Plans (BSP; formerly Department of Commerce)
	Department of Land and Natural Resources, Division of Aquatic Resources (DAR)
Hawaii	NOAA Pacific Islands Fisheries Science Center (PIFSC)
	NOAA Pacific Islands Regional Office (PIRO)
	Western Pacific Regional Fisheries Management Council (Council)

WPacFIN and these agency partners collect, digitize, conduct quality control, edit and otherwise process data from the islands. WPacFIN staff at the Pacific Islands Fisheries Science Center then use these data to create the summaries and graphs found in this document. In 1981, when WPacFIN began assisting agencies in improving their data collecting and processing systems, only the State of Hawaii had computerized processing. By mid-1982, fisheries offices in American Samoa, Guam, and CNMI were using WPacFIN-supplied computers to process data. Since that time, these agencies have made significant improvements in their data collection methodology and have established various automated data processing systems with support from WPacFIN Central.

WPacFIN has established File Transfer Protocols (FTP) for all the island areas, with support from PIFSC Information Technology Services (ITS). Online data entry and FTP for DAR are also supported by the Department of Accounting and General Services and Hawaii ITS contractors. Once data from all agencies has reached the WPacFIN centralized data system and appropriate editing, adjustment, and validation procedures are completed, summary tables and charts are produced using freeware and commercially available database and server applications developed by WPacFIN Central staff.

CAVEATS

Data collection, compilation, and processing systems vary greatly among Pacific Island fisheries agencies. Although a lot of effort has made to standardize data systems over the years, many unique aspects remain, resulting from differences in local requirements, resources, abilities, and other factors.

As a result, interpretation and comparison of data across islands from this report, requires recognition of several caveats. For example, Hawaii's commercial landings data summaries are based on mandatory monthly reporting by fish dealers and licensed commercial fishers, and data from federal longline logbooks. In contrast, commercial landings estimates for CNMI and Guam are based on voluntary reporting by major fish buyers, using government-provided invoices, adjusted to represent 100% coverage of estimated fishing trips (referenced throughout this report as "estimated commercial landings"). Finally, American Samoa commercial landings estimates are based on a complex integration of data from a boat-based creel survey and data expansion system for non-federal fisheries, mandatory federal logbook data, a size-frequency sampling program for the longline fishery, and data from a mandatory commercial purchase reporting system for local sales.

Each system has advantages and disadvantages the reader should be aware of when comparing or interpreting data across fisheries and island areas. In addition, island fisheries agency and WPacFIN staff are continually improving the data collecting and processing systems for each area. Because the improvements usually result in updates to the estimates of total and commercial landings, the data in this volume may not align exactly with data in previous volumes of this report series. WPacFIN Central staff is currently compiling documentation of significant changes in data collection and summary systems across the region over the past three decades, to help put into perspective the effects of these differences on trends in the data.

The reader should also be aware that species assemblages vary among island areas, as do cultural preferences and principal fishing techniques and gears. Island cultures and fisheries also change over time. Sometimes new fishing methods evolve quickly in a given area. The changing population and weather of the island group is relevant to the interpretation of the relative value and importance of its fisheries in a given year. To help provide this perspective, a brief description of island population, fisheries, data collecting, and processing systems is included in each island's section.

DEFINITIONS OF SPECIES CATEGORIES

In addition to a description of the fisheries monitoring systems, and monthly and annual reports, each section contains graphs of statistical summaries of particular interest or importance to participating WPacFIN agencies. Species categories have been defined for each island's fisheries. Because of differences in the resolution of species identification across local monitoring systems and sectors of the fishing industry, the species within each category vary somewhat between the island areas. There is also a degree of overlap between some of the categories used for different graphs. For example, the category "bottomfish" includes some, but not all of the snappers, jacks (trevallies), and groupers. Bottomfish species are reported separately during creel surveys, but they are often grouped in reports from the markets. Each section of the report has its own documentation of species groupings.

Note: Many of the species included in this report have been recategorized over the years. For example, the Magnuson Fishery Conservation and Management Act of 1976 was amended in 1992 to include tunas in the Pelagic Management Unit Species (PMUS) category. However, for comparative purposes, this FSWP volume maintains the original species categorizations seen throughout the series. As such, tunas are kept in a separate category.

Categories used in the graphs include

- 1. Fisheries Categories These are combinations of species of similar ecological habitat, specifically pelagic, bottomfish, reef fish, and "other." The category "other" includes species or groups that may not fit these ecological categories (e.g.invertebrates, algae, bonefish, or bigeye scad), as well as species not typically included in these groups in the Pacific islands (e.g., species that are estuarine in continental ecosystems, such as mullet or milkfish).
- 2. Pelagic Management Unit Species (PMUS) The Magnuson Fishery Conservation and Management Act of 1976 was amended in 1992 to place tunas under U.S. jurisdiction for management. The Fishery Management Plan for Pacific Pelagic Species was amended to reflect this change. However, this report series has continued to treat tunas as a separate category for the sake of continuity. Therefore, the PMUS category in this document includes only billfishes, wahoo, mahimahi, and oceanic sharks.
- 3. Bottomfish Management Unit Species (BMUS) Defined as the species of initial importance in the Pacific Island's Fishery Management Plan for bottomfish and seamount ground fish fisheries, including the major deep-water snappers, groupers, emperors, and certain jacks.
- 4. Tunas Any of fifteen species, across five genera, of the tribe *Thunnini*. All tunas are oceanic in habitat, most are worldwide in distribution. This does not include other scombrids, such as wahoo and "dogtooth tuna" (see the tables for scientific names). Historically in the Pacific islands, this group had been comprised predominantly of skipjack and yellowfin tuna; but with the growth of longline fisheries, bigeye and albacore tuna have become much more

predominant in landings from in Hawaii and American Samoa, respectively.

- 5. Other Scombrids This group includes species that comprise a very small portion of the catch, unidentified tunas, and apparent misidentifications.
- 6. Billfishes This group is a combination of blue, striped, and black marlins; sailfishes; spearfishes; and swordfish species.

GRAPHS

Four types of graphs are provided with each island's data, as follows:

- The first is a chart of the major species or groups, showing the estimated commercial catch for each month of the year.
- The second is a seasonality plot for the major species or groups, showing the average weight landed during each month for all years for which there are data.
- The third is a time series plot of annual summary statistics, to illustrate the year-to-year variability.
- The fourth type of plot shows monthly landings of some of the major commercially important species or groups, and documents monthly fluctuations in landings of these species over the entire time series (all years for which there are data).

To see the most current data and charts, please visit https://www.pifsc.noaa.gov/wpacfin.

AMERICAN SAMOA 2014 FISHERIES STATISTICS

Compiled by

American Samoa

Department of Marine and Wildlife Resources

and the

Western Pacific Fisheries Information Network

A.iii

CONTENTS

	Page
Introduction	A.1
Data Collection Programs	A.2
Data Processing	A.8
Data Reporting	A.10
Species Categories	A.10
Interpretation of Statistics	A.14
Tables	A.16
Figures	A.47

A.iv

LIST OF AMERICAN SAMOA 2014 SUMMARY TABLES

Table	es	Page
A-1	Annual Estimated Commercial Landings	A.16
A-2	January Estimated Commercial Landings	A.20
A-3	February Estimated Commercial Landings	A.22
A-4	March Estimated Commercial Landings	A.24
A-5	April Estimated Commercial Landings	A.26
A-6	May Estimated Commercial Landings	A.28
A-7	June Estimated Commercial Landings	A.31
A-8	July Estimated Commercial Landings	A.34
A-9	August Estimated Commercial Landings	A.37
A-10	September Estimated Commercial Landings	A.39
A-11	October Estimated Commercial Landings	A.41
A-12	November Estimated Commercial Landings	A.43
A-13	December Estimated Commercial Landings	A.45

A.v

LIST OF AMERICAN SAMOA FIGURES

Figures		Page
2014 M	onthly Estimated Commercial Landings	
A-1-1	Pelagic Fishes, Bottomfishes, Reef Fishes, and Other Fishes	A.47
A-1-2	Tunas, PMUS, and BMUS	A.47
A-1-3	Albacore and Yellowfin Tuna	A.48
A-1-4	Skipjack, Bigeye, and Other Scombrids	A.48
A-1-5	Wahoo, Mahimahi, and Billfishes	A.49
1982-20	14 Average Monthly Estimated Commercial Landings	
A-2-1	Tunas, PMUS, and BMUS	A.50
A-2-2	Albacore and Yellowfin Tuna	A.50
A-2-3	Skipjack, Bigeye, and Other Scombrids	A.51
A-2-4	Wahoo, Mahimahi, and Billfishes	A.51
A-2-5	Surgeonfishes/Tangs, Blue-Lined Snapper, and Spiny Lobster	A.52
1982-20	14 Annual Total Estimated Commercial Landings	
A-3-1	All Species (Pounds) and All Species (Dollars)	A.53
A-3-2	Pelagic Fishes, Bottomfishes, Reef Fishes, and Other Fishes	A.53
A-3-3	Tunas, PMUS, and BMUS	A.54
A-3-4	Albacore and Yellowfin Tuna	A.54
A-3-5	Skipjack, Bigeye, and Other Scombrids	A.55
A-3-6	Wahoo, Mahimahi, and Billfishes	A.55
1982-20	14 Monthly Estimated Commercial Landings	
A-4-1	Albacore Tuna	A.56
A-4-2	Yellowfin Tuna	A.56
A-4-3	Skipjack Tuna	A.57
A-4-4	Bigeye Tuna	A.57
A-4-5	Wahoo	A.58
A-4-6	Mahimahi	A.58
A-4-7	Blue Marlin	A.59
A-4-8	Blue-Lined Snapper	A.59
A-4-9	Surgeonfishes/Tangs	A.60
A-4-10	Spiny Lobster	A.60

A.vi

(This page is intentionally left blank.)

AMERICAN SAMOA 2014 FISHERIES STATISTICS

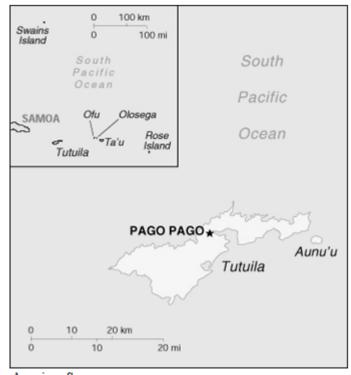
INTRODUCTION

Location: 14°S latitude, 170°W longitude

Islands: Tutuila, Aunu`u, the Manu`a Islands (Ofu, Olosega, Ta`u), Rose Atoll (uninhabited), and Swains Island (sparsely populated)

Population: about 54,343 (The World Factbook, July 2015 estimate), the majority (> 95%) living on Tutuila Economy: Tuna fishing and tuna processing plants, with canned tuna the primary export. Tourism is a promising developing sector.

The American Samoa Department of Marine and Wildlife Resources (DMWR), located in Pago Pago, on Tutuila, has been collecting commercial fisheries data from the Tutuila fleet since the early 1970s. In 1983, DMWR extended its coverage



Am erican Samoa Source: http://www.cia.gov/cia/publications/factbook/aq.html; The World Factbook

to the Manu'a Islands, and in 1985 modified its data collection programs to include recreational and subsistence fisheries.

Until the mid-1990s, American Samoa's domestic fisheries had been dominated by small (28–32-ft) outboard-engine-powered catamarans called *alias* (pronounced *ah-lee-ahs*), fishing primarily single-day trips. Traditionally, trolling and bottomfishing were the major methods of fishing, with occasional small amounts of spearfishing, netting, and vertical longlining. About mid-1995, some of the traditional alias began converting to horizontal longline fishing. Over the course of 1996, horizontal longlining became the largest fishery in American Samoa, based on total weight of landings, although only about a third of the fleet had converted to this method. The fleet grew rapidly over the next few years, adding new and larger alias up to about 38 ft in length. More significantly, throughout the same period, increasingly larger monohull vessels (40-70 ft and over) also began to join the fleet. These boats could fish much longer trips, both in duration and distance. Between 1995 and 2002, vessels over 50 ft in length rapidly came to dominate the fleet, and have been responsible for over 90% of longline fishing effort annually (number of hooks set) since 2002. The primary target species for this fleet has always been albacore tuna (50-70% of catch annually), but the fishery also lands a significant amount of skipjack tuna (roughly 18-25%), and lesser amounts of yellowfin and bigeye tuna, wahoo, oilfish, blue marlin, mahimahi and other incidental species.

During 2014, the various monitoring programs in American Samoa identified 54 active fishing vessels. Of these, 52 were home-ported on Tutuila and two in the Manu'a Islands. Many of these vessels participated in more than one fishery. Twenty-two of the Tutuila vessels, including nineteen vessels over 50 ft in length, did at least some longlining. Out of the 54 fishing vessels, thirty participated in the troll and bottomfish fisheries, and eleven were used in other types of fishing). Essentially all of the longlining in American Samoa was based out of Tutuila, where the majority of the catch was offloaded to the canneries.

During 2014, the average alia fishing vessel on Tutuila carried a three-man crew that fished nine hours and caught an estimated 161 lbs of fish and invertebrates per trip. The average Manu'a vessel-based fishing trip also had a three-man crew, but fished for only 4 hours and landed an average of 78 lbs per trip. Although fishing is generally conducted only to supply village or market demand, and fish are plentiful, this comparison demonstrates a slightly higher hourly catch rate in the less-populated Manu'a Islands (17.9 lbs/hr on Tutuila versus 19.5 lbs/hr in the Manu'a island group).

DATA COLLECTION PROGRAMS

The data collection programs used by the DMWR to monitor the changing fisheries of American Samoa have evolved considerably over the past 35 years. These data collection programs have typically relied on a high level of personal contact with fishers for a significant portion of creel survey interviews and dockside monitoring programs. From 1982 to 1985, DMWR obtained catch statistics by interviewing commercial fishermen at the end of each trip, and kept a record of as much commercial fishing activity as possible. This was referred to as the "Commercial Catch Monitoring System". This data collection method was accurate for trips for which interviews could be conducted. However, it was very labor intensive, did not cover all trips, and did not include subsistence fishing, or the small but growing recreational fishery.

DMWR has several major data collection programs in place today and works cooperatively with NOAA Fisheries to obtain complete data for its primary commercial fisheries. Data used to develop the best estimates of commercial catch and effort for the fisheries and markets of American Samoa come from the following programs:

- 1. Vessel Classification Program a vessel history and tracking system for all American Samoa vessels, managed by the Department of Public Safety.
- 2. Boat-based Creel Survey Program (formerly the Offshore Creel Survey System) access-point creel surveys at boat ramps on Tutuila and in the Manu'a Islands.
- 3. Shore-based Creel Survey Program roving creel surveys along the shoreline of Tutuila and the Manu'a Islands.
- 4. Commercial Purchase Program a mandatory purchase receipt system for businesses on Tutuila that purchase seafood directly from fishermen.
- 5. Federal Longline Logbook Program federal logbook data are collected and compiled by PIFSC, with support from the Pacific Islands Regional Office (PIRO).
- 6. Cannery Sampling Program length-frequency sampling data for tunas and important pelagic species, collected by the PIRO Field Office from longline vessels offloading at

- canneries in Pago Pago (purse seine data are compiled separately by another NOAA Fisheries regional data collection).
- 7. Cannery Offloading Data monitoring of the total amount of fish offloaded at the cannery by longline vessels in Pago Pago, conducted by the PIRO Field Office (purse seine data are compiled by another NOAA Fisheries regional data collection).

Vessel Classification Program – Beginning in the early 1980s, this program was established to collect information on all vessels participating in any domestic fisheries. It includes the following information on American Samoa vessels:

- Boat Name
- Registration Number
- Propulsion
- Length
- Beam
- Number of Engines
- Type of Use
- Trailered
- Number of Crew

- Depth (freeboard plus draft in feet)
- Engine Type
- Fuel Type
- Material
- Horsepower
- Port
- Methods of Fishing
- Federal Permit

Boat-based Creel Survey Program – Around 1985, a boat-based creel survey program was implemented on Tutuila to provide statistics on all boat-based fishing, including non-commercial trips. Similar monitoring programs were established shortly thereafter in the Manu'a Islands, where the landing sites are centrally located and the number of vessels is small enough for data to be collected on almost every trip. Creel surveyors in the Manu'a Islands send monitoring data to the DMWR office on Tutuila for processing.

The details of the Tutuila boat-based fishery sampling program have changed over the years to accommodate changes in the fisheries. But it has remained a trip-based, stratified sampling program. During analysis, data are stratified by fishing method, type of day (weekday vs. weekend/holiday), port, and charter status. For cultural reasons, Sundays are not worked in American Samoa. Consequently, creel surveys do not occur on Sundays (and there is typically very little fishing activity anyway).

DMWR staff normally samples at least two weekdays and one weekend/holiday per week. In 2014, weekday sampling was conducted much more frequently. A total of 197 weekdays and 39 weekend days were surveyed for boat-based fishing. During survey days, all departing and returning fishing boats are noted on a boat-log form, and an attempt is made to complete an interview for each returning vessel. Four main ports and boat launching areas in Pago Harbor are monitored on each sampling day, including: Pago Pago, Fagatogo, Utulei, and Faga`alu. Several more remote launching areas, including Fagasa, Faga`itua, and Vatia, are monitored as well, when it is known that a vessel is departing from or returning there. It is assumed that the catch rates in these less-sampled areas are similar to those of the regularly-sampled areas. Furthermore, fishers that are interviewed are assumed to be representative of the entire fishing population and to provide accurate information.

Vessels out fishing are detected either by the presence of a boat trailer near a launch area or by the absence of a known boat at its designated berth. Unless contrary information is available from knowledgeable persons interviewed along the docks or in the local community, all such boats are assumed to be out fishing.

The following participation information is recorded for all boats considered to be "out fishing":

- Survey date
- Vessel name
- Presence/absence during three observation times
- Type of day

- Fishing method
- Number of gears
- Number of fishers
- Berth or mooring location

The remaining data elements, listed below, are collected from each returning vessel if an interview can be successfully completed:

- Interview date and time *
- Type of day *
- Vessel name
- Fishing method *
- Number of fishers
- Number of gears
- Hours fished
- Area fished
- Total catch weight *

- Species caught *, with the following information for each species
 - Individual lengths *
 - o Individual weights
 - Number caught *
 - Landed condition
 - O Disposition (% for sale vs. village or home consumption)
 - o Price per pound
- Any bycatch

It is not always possible to obtain information on all the items listed. However, the ones marked with an asterisk (*) are considered essential for data expansion purposes. Identification and weight of each species are often not obtainable. Species groupings (e.g., "miscellaneous bottomfish") are recorded only in cases where species-level identification is impossible.

Boat log data is expanded to estimate the total number of fishing trips on Tutuila, and interview data are used to compute the average catch per trip. Multiplying the estimated trips by the average catch per trip then provides an estimate of the total catch on Tutuila. This is done separately for each analysis stratum and summed over all strata. The Manu'a survey is considered to be a census and therefore not expanded. The Manu'a catch is added to the estimated Tutuila catch to arrive at a total catch estimate for American Samoa.

Shore-based Creel Survey Program – Around 1985, a shore-based creel survey sampling program was implemented on Tutuila to provide statistics on all shore-based fishing, including non-commercial activity. Similar monitoring programs were established shortly thereafter in the Manu'a Islands. The surveyors in the Manu'a Islands send monitoring data to the DMWR office on Tutuila for processing.

The details of the shore-based fishery sampling program have changed over the years to accommodate changes in the fisheries. But it has remained an hourly CPUE-based stratified random sampling program. During analysis, data are stratified by fishing method, type of day (weekday versus weekend/holiday), region, and time of day. As noted for boat-based surveys, for cultural reasons no sampling occurs on Sundays, when work is not allowed and there is very little fishing activity.

DMWR staff normally completes a minimum of 5 weekday and 2 weekend/holidays surveys per route per quarter. In 2014 weekday sampling was conducted much more frequently than necessary and few weekend days were sampled. A total of 318 weekday surveys and only 12 weekend surveys were completed. During survey days, staff drives along a designated route and records all shore-based fishing activity observed. This is termed the participation run. Any activity that involves a motorized vessel is not counted, unless the vessel: 1) is used primarily for transporting such items as gill nets, surround nets, and drag nets, and 2) was launched from a beach, not a boat ramp. On the return drive along the route, interviews are attempted with all fishermen. Fishers that are interviewed are assumed to be representative of the entire fishing population and to provide accurate information.

During participation runs, the following information is recorded:

- Survey date
- Shift time
- Route
- Run number
- Observation time

- Village
- Number of fishers
- Gear type
- Number of gears
- Weather conditions

The remaining data elements, listed below, are collected during interviews:

- Interview date and time
- Type of day
- Village
- Number of fishers
- Fishing start and stop time
- Fishing method
- Number of gears
- Location

- Proportion of catch to be sold
- Species caught, with the following information for each species:
 - o Individual lengths
 - Individual weights
 - o Number caught
 - Total weight
- Any bycatch

If time does not allow for the length and weight of each fish to be measured, weights can be estimated using recorded length measurements. Species groupings are used only if a species level identification cannot be made.

Participation data are expanded to estimate the total gear-hours of shore-based fishing activity on Tutuila, and interview data are used to estimate the average catch per gear-hour. Multiplying the estimated gear-hours by the average catch per gear-hour then provides an estimate of the total catch on Tutuila. This is done separately for each analysis stratum and

summed over all strata. Data from the Manu'a surveys are handled similarly and added to the estimated Tutuila catch to arrive at a total catch estimate for American Samoa.

Commercial Purchase Program – For several decades, the two canneries in Pago Pago Harbor provided monthly summary statistics of their purchases of fish from all vessels, foreign and domestic. In September 1990, a Commercial Purchase Program was instituted, whereby all other businesses in American Samoa that buy fish directly from fishermen were required by law to submit a copy of their purchase receipts to DMWR. Receipt books were issued by DMWR to all fish markets, stores, hotels, and restaurants that resell fish, either whole or prepared. The information collected via these receipts includes:

- Invoice Date
- Invoice Number
- Buyer's Name
- Boat Name, Owner
- Area Fished

- Fishing Method
- Species Bought
- Number of Pieces by Species
- Weight in Pounds by Species *
- Price per Pound by Species

Federal Longline Logbook System – In January 1996, in response to the developing longline fishery, a mandatory federal longline logbook system was implemented by NOAA's National Marine Fisheries Services (NOAA Fisheries) for American Samoa. All longline fishermen are required to obtain a federal permit and to submit logs containing detailed data on each set, including location, effort, and the number kept and released by species. In 1996, DMWR began collecting and processing the logbook data submitted by American Samoa longliners and sending it via FTP to the PIFSC-WPacFIN Central Office in Honolulu on a regular basis.

In July 1999, to improve monitoring of the quickly growing longline fishery, DMWR implemented a Daily Effort Census (DEC) for all federally permitted longline vessels. Six days a week, DMWR staff made two visits daily to the docks and mooring areas frequented by longline vessels. The staff documented whether each vessel on the list was either "in port" or "out fishing." The DEC data were used to track the activity of each vessel and help ensure that all log sheets are submitted in a timely manner.

Over the course of 1996, longlining became the largest fishery in American Samoa, based on total weight of landings, although only about a third of the fleet had converted to this method. The fleet grew rapidly over the next few years, adding new and larger alias up to about 38 feet in length. More significantly, throughout the same period, increasingly larger monohull vessels (40-70 feet and over) also began to join the fleet. These boats could fish much longer trips, both in duration and distance. Between 1995 and 2002, vessels over 50 feet in length rapidly came to dominate the fleet. These large vessels have been responsible for over 90% of longline fishing effort (number of hooks set) annually since 2002.

By 2008, the number of alias longlining had dwindled to just two boats and the Daily Effort Census no longer served a useful purpose. In December 2008, DMWR stopped collected the DEC data. Instead, DMWR and PIFSC began using Vessel Activity Record data collected by PIRO's Fisheries Monitoring Field Office and Longline Observer Program to keep track of timely submission of logbooks by the larger longline vessels.

Information recorded for each longline set in federal logbooks includes:

- Logbook Number
- Federal Longline Permit Number
- Vessel Name
- Date of Departure/Arrival
- Port of Departure/Arrival
- Observer on Board (yes/no)
- Begin and End of Set/Haul Date and Time
- Begin and End of Set/Haul Latitude and Longitude
- Target Species
- Bait Used

- Mainline Length
- Number of Hooks
- Number of Hooks between Floats
- Number of Hooks Lost
- Number of Kept by Species (including sharks)
- Number Released by Species
- Number of Protected Species Released Alive, Injured or Dead
- Bird Catch Mitigation Measures
- Number of Light Sticks Used

Cannery Sampling (Length-Frequency) Program – This data collection program is run by PIRO staff in the Pago Pago Fisheries Monitoring Field Office (FMFO). Tuna sampling data are collected from foreign and domestic longline and purse seine vessels offloading catches at the canneries in Pago Pago. Data on the percentage of fish sold to the cannery, local markets or kept for other uses ("percent disposition") are also collected on the sampling form. The FMFO sampling program is primarily geared towards collecting data on size composition by species for bigeye, yellowfin, skipjack, and albacore tuna, but size composition data for other pelagic species sold to the cannery are also collected periodically.

To estimate the weight of fish landed (weight brought ashore), and the proportion of landings sold to the canneries and local markets by the American Samoa-based longline fleet, in 1998 WPacFIN helped develop a data processing system to enable DMWR staff to compile cannery sampling data collected from the PIRO FMFO, focusing specifically on data from domestic longline vessels (purse seine catch excluded). The longline cannery sampling data are used by WPacFIN to develop estimates of average weight for the species sampled. The average length data collected are converted to average weight by species, based on a length-weight regression. These average weights are applied to logbook data to estimate the weight of landings ("kept catch"). The percent disposition from cannery sampling data (percentages sold to cannery, sold to local markets and kept for village/home consumption) is applied to the total weight estimated by species in order to develop an estimated weight of commercial landings. Then market or cannery prices are applied to the appropriate percentage of the commercial weight to estimate total sales value of landings.

Cannery Offloading Data – This PIRO FMFO program monitors the amount of fish offloaded at the canneries in Pago Pago by longline and purse seine vessels. In order to qualify for the American Samoa Government's tax exemption benefits, the canneries are required to report their monthly landings to the Governor's Office and the local Department of Commerce. Previously, these Cannery Offloading Reports were also submitted to the DMWR office. These reports provide a record of the total pounds of fish offloaded at the cannery, by species and vessel

In 1998, WPacFIN assisted DMWR in developing a data-entry system to capture and compile these data. From 1995 through 2010, the cannery offloading data were processed and stored in a DMWR database. During the first few years of the federally mandated longline logbook data system, data on the amount of domestic longline vessel landings at the canneries were used to assist PIFSC in verifying and monitoring delinquencies in reporting via federal longline logbooks.

More recently, changes in the American Samoa Government and in management of the canneries have affected the continuity of reporting to the DMWR. Cannery reporting started to fall behind in 2008, and no reports have been submitted to the DMWR since 2010. There is an ongoing effort by the DMWR to revive this data collection.

DATA PROCESSING

Significant changes in American Samoa's fisheries have occurred since the mid-1990s, including the development of the longline fishery and a nighttime spear fishery, which occurs from small vessels and directly from shore. These changes, along with changes in the ability of DMWR to conduct monitoring throughout the week, at all times of day, and in all fishing areas, have introduced bias in formerly randomized processes used to collect creel survey effort and interview data in the field. By 1997, WPacFIN and DMWR identified some problems and implemented modifications to creel survey field techniques. By early 1998, it was clear that the algorithms used to expand the survey data and estimate landings for the fishery as a whole needed to be adapted to changes in the fielding methods. New data processing programs that better handled the more complex fisheries in American Samoa were implemented and used to reprocess the historical time series of data. This volume includes some of the results of new data expansion algorithms developed by WPacFIN and documented by Bak Hospital (2015).

As the data collecting programs used by DMWR to monitor the fisheries in American Samoa have changed over the years, so have the data-processing systems. Numerous versions of database utilities/applications and desktop computer systems have been used over the years to meet the growing need for fisheries data within the agencies, and to adapt to rapid changes in data processing technology. Generally speaking, these changes have placed increasing emphasis on improving data quality and employing cross-validation measures across systems, which has made the data processing systems and data collections more robust and complete, albeit more complex.

The following important principles have remained constant over time:

- 1. Keep data processing close to the source of data collection.
- 2. Provide all of the needed software tools to ensure data quality.
- 3. Make systems user-friendly and functional for the local staff.
- 4. Maintain data collection standards as consistently as possible throughout the time series.

Typically, when upgrades have been made to data-processing systems (such as changes in expansion and reporting algorithms for the creel and commercial landings data), the entire time series of data is reprocessed using the new algorithms, in an effort to ensure that apparent

trends in fisheries data would not result solely from changing methodology. To help the reader understand the origin of the data included in this report, a general description of these processes follows. Please note that, although the summary does not include the details of minor changes that may have occurred throughout the evolutionary history of these systems, an effort has been made to include a description of major changes.

The data from 1982 to 1985 were imported directly from the original Commercial Catch Monitoring System, used prior to implementation of the boat-based creel survey in American Samoa. Since 1986, the boat-based creel survey data expansion system has been the central system used to estimate total commercial landings in American Samoa. Briefly, the survey data expansion process involves multiplying the average daily participation by the average catch per trip for each stratum and summing this across strata.

For the years from 1986 to 1990, the estimated commercial sales portion of expanded creel survey data from Tutuila and the Manu'a Islands were combined to produce estimated total commercial landings. Since 1990, with implementation of a mandatory fish dealer receipt book system on Tutuila (Commercial Purchase Program), further adjustments have been made to these combined creel data, based on a comparison with receipt book data. The total reported commercial receipts were compared with the estimated percent of the expanded total catch sold from creel survey data. These adjustments made significant improvements in the total commercial sales estimates provided herein, since they helped adjust for sales not detected through the boat-based survey (e.g., inshore and strictly nighttime commercial fishing). Species totals modified with these types of adjustments are marked with an asterisk (*) in the following data summaries.

In the late 1990s, when large longline vessels began landing their catches directly at the canneries (outside the monitoring capability of standard boat-based creel survey data), the longline logbook system and cannery size-frequency sampling data began to enter into algorithms used to estimate commercial landings from this part of the fishery. Landings from those vessels were added to develop a more complete estimate of total commercial landings for American Samoa.

One of the most significant recent improvements made in the data-processing systems for DMWR has been in the area of cross-system data validation and quality control. By collecting similar data from several sources, using different monitoring and reporting tools, the quality of reported data can be cross-referenced between systems to provide insight into the validity and completeness of each data set.

The charts that make up the rest of the report are for groups of species, as well as for some individual species that are more predominant in commercial landings. The top 10 commercial species for the year are emphasized in this report, but these can change from year to year. To see the most current charts and tables, please visit the WPacFIN website (https://www.pifsc.noaa.gov/wpacfin).

DATA REPORTING

After all editing, quality control, and data interpretation activities are completed, monthly and annual commercial landings data tables by species are generated. Each of the commercial landings data tables contains the common name, estimated weight (in pounds), estimated value if all the weight were sold (in dollars), the average price per pound of each species or group, and whether the data were modified by Commercial Purchase System data (denoted by an asterisk). The monthly data tables are based on a monthly expansion of the Tutuila boat-based creel survey data, with addition or adjustment based upon monthly Longline Logbook, Commercial Purchase System, and Manu'a data, as explained previously. Annual data tables are based on an annual expansion of the creel data for the calendar year, with similar addition or adjustment based on Longline Logbook, Commercial Purchase System, and Manu'a data. Since the monthly and annual data tables are based on separate monthly and annual expansions of the creel data, for which sample size affects mean CPUE and participation, the annual data tables are not the exact sum of the 12 monthly data tables, but their sum falls within the range of the annual standard error (Tables A-1 to A-13).

SPECIES CATEGORIES

The species and groups used in the tables and graphs of American Samoa's data are defined in this section. Some of the species groupings included in this report have been recategorized over the time series covered by these reports. There have been changes in management groupings and in some cases the taxonomy has been reviewed or revised, affecting the appropriateness of former groupings. For example, the Magnuson Fishery Conservation and Management Act of 1976, was amended in 1992 to include tunas in the Pelagic Management Unit Species (PMUS) category. And species such as the dogtooth tuna have been recognized as not being true tunas (members of the Tribe Thunnini), although the word "tuna" is part of the common name.

To allow easy comparison, this report maintains the original species groupings from previous FSWP volumes. As such, tunas are kept in a separate category from other PMUS. The species tables are affected by differences in usage of local common names, and are currently being updated for consistency across regions. To avoid confusion in this report, the scientific names are provided, along with the most common English or in some cases US Pacific islands regional name. These tables will be revised in the next volume to more clearly associate scientific names for species and higher taxonomic groups with English, regional, and local common names. This is part of an ongoing effort to overhaul WPacFIN taxonomic references, to improve consistency and ease of interpretation for all our Pacific island partners. To see the most current taxonomic information for species caught commercially in American Samoa, and other US-associated Pacific island areas, please visit the WPacFIN website (https://www.pifsc.noaa.gov/wpacfin).

A 11

I. Pelagic Management Unit Species (PMUS)

Blue marlin (Makaira mazara) Mahimahi (Coryphaena hippurus) Striped marlin (Kajikia audax) Swordfish (Xiphias gladius) Wahoo (Acanthocybium solandri)

II. Bottomfish Management Unit Species (BMUS)

Black jack (Caranx lugubris)
Blue-lined snapper (Lutjanus kasmira)
Flower snapper/Gindai (Pristipomoides zonatus)
Giant trevally (Caranx ignobilis)
Goldflag jobfish (Pristipomoides auricilla)
Gray jobfish (Aprion virescens)

Longtail snapper/Onaga (Etelis coruscans)
Pink snapper/Opakapaka (Pristipomoides filamentosus)
Silverjaw jobfish/Lehi (Aphareus rutilans)
Redgill emperor (Lethrinus lentjan)
Ruby snapper/Ehu (Etelis carbunculus)
Yellow-edged lyretail (Variola louti)

III. Tunas

Albacore (*Thunnus alalunga*) Bigeye tuna (*Thunnus obesus*) Kawakawa (*Euthynnus affinis*)¹ Skipjack tuna (*Katsuwonus pelamis*) Yellowfin tuna (*Thunnus albacares*) Other tunas²

IV. Other Scombrids

Dogtooth tuna (Gymnosarda unicolor)

(See footnote 2)

¹ Because of the low volume of catch, this tuna is included with "other scombrids" in some of the charts.

² This group includes species that comprise a very small portion of the catch, unidentified tunas, and apparent misidentifications (e.g. Bluefin tuna have never been credibly identified in American Samoa, but are occasionally reported by fishermen. These are thought to have been large bigeye tuna.).

V. Fisheries Categories

A. Pelagic Fishes

Albacore tuna (Thunnus alalunga)

Barracudas up to 5 species (Sphyraena spp.)

Bigeye tuna (Thunnus obesus)
Blue marlin (Makaira mazara)

Dogtooth tuna (Gymnosarda unicolor)

Kawakawa (Euthynnus affinis)

Mackerel (Rastrelliger brachysoma)

B. Bottomfishes

Bigeye bream (Monotaxis grandoculis)

Bigeye scad (Selar crumenopthalmus)

Black jack (Caranx lugubris)

Blue-lined snapper (Lutjanus kasmira)

Bottomfishes (unspecified⁴)

Brown jobfish (Aphareus furca)

Deep-water snappers (unspecified⁵)

Emperors (unspecified Lethrinidae)

Flagtail grouper (Cephalopholis urodeta)

Flower snapper/Gindai (Pristipomoides zonatus)

Giant trevally (Caranx ignobilis)

Goldflag jobfish (Pristipomoides auricilla)

Mahimahi (Coryphaena hippurus, C. equiselis)

Rainbow runner (Elagatis bipinnulata)

Skipjack tuna (Katsuwonus pelamis)

Striped marlin (Kajikia audax)

Swordfish (Xiphias gladius)

Wahoo (Acanthocybium solandri)

Yellowfin tuna (Thunnus albacares)

Jacks (unspecified larger Carangidae³)

Longnose emperor (Lethrinus elongatus)

Longtail snapper/Onaga (Etelis coruscans)

Mackerel scad/'Opelu (Decapterus macarellus)

Onespot snapper (Lutjanus monostigma)

Peacock grouper (Cephalopholis argus)

Pink snapper/Opakapaka (Pristipomoides filamentosus)

Redgill emperor (Lethrinus lentjan)

Ruby snapper/Ehu (Etelis carbunculus)

Silverjaw jobfish/Lehi (Aphareus rutilans)

Trevallies (unspecified smaller Carangidae⁴)

White-edged lyretail (Variola albimarginata)

³ The categories "Jacks" and "Trevallies", when used without qualifiers, both apply to unspecified carangids (multiple species). The name used generally depends on the fish size, with "jacks" being larger species or adult fish, and "trevallies" used to refer to smaller juveniles or species that do not get very large. In American Samoa, the fish most commonly called "jacks" are of the genera *Caranx* or *Seriola*. Most of the species called "trevallies" are of the genus *Carangoides* or *Uraspis*, but some of these are also referred to at times as "jacks." Generally, the larger the fish, the more likely it is to be referred to as a jack, and the smaller fish the more likely it will be called a "trevally." These categories are used in this report only when the fish were not identified to species. Please note that there may be some overlap.

⁴ This group includes multiple genera and species of snappers, groupers, lethrinids and carangids that are often grouped together in reporting by markets, because they come from a single fishery.

⁵ This group includes any of the snappers caught by the deep bottom fishing method. They include various species of the genera *Aphareus*, *Aprion*, *Etelis*, *Lutjanus* and *Pristipomoides*. These are also listed individually, if the species was clearly indicated.

A 13

Gray jobfish (Aprion virescens)
Greater amberjack (Seriola dumerili)
Groupers (unspecified Serranidae)
Humpback snapper (Lutjanus gibbus)

Whitemouth trevally (*Uraspis secunda*) Yellow margined snapper (*Lutjanus fulvus*) Yellow-edged lyretail (*Variola louti*)

C. Reef Fishes

Barred flagtail (Kuhlia mugil)
Bloch's Bigeye (Priacanthus blochii)
Goatfishes (family Mullidae)
Inshore groupers (family Serranidae)
Mullets (family Mugilidae)
Parrotfishes (family Scaridae)
Rabbitfishes (family Siganidae)
Reef fishes (unspecified)

Rudderfishes (*Kyphosus* spp.)
Squirrelfishes (multi-species *Neoniphon, Sargocentron*⁶)
Surgeonfishes/Tangs (family Acanthuridae)
Terapon perch (*Terapon jarbua*)
Triggerfishes (family Balistidae)
Unicornfishes (multi-species *Naso* spp.)
Wrasses (family Labridae)

D. Other Fishes, Algae & Invertebrates

Conger eels (all species identified to date included *Conger* spp.) Crabs (multiple families, Brachyura) Eels (most are *Gymnothorax* spp.) Filefishes (family Monacanthidae) Gold banded fusilier (*Caesio caerulaurea*) Needlefishes (*Strongylura incisa*, *Platybelone argalus*, other Belonidae) Octopus (*Octopus cyanea*, *Octopus ornatus*) Pufferfishes (family Tetraodontidae) Spiny lobster (mainly *Panulirus penicillatus*)

⁶ This group has mistakenly included some *Priacanthus* in the past. Identifications have improved significantly in recent years.

INTERPRETATION OF STATISTICS

When interpreting the data in the tables and graphs, please keep in mind the caveats described earlier in this section, along with the fact that these commercial landings summaries are not based on a census of all fishing activity but on a subsample of those activities, as well as on integration of data from several different programs. One of the primary tools in expanding the creel survey data into an estimate of monthly and annual catch are the proportionality constants used to adjust for the percentage of temporal and geographic coverage of the surveys. The data expansion methodology is designed to allow for refinement of these constants, as additional information is gained on the proportions of fishing activity taking place outside the survey times and areas. With constant improvement in the estimated values of these constants, the survey data expansion can be improved to create better overall estimates. Variation in species composition would not be expected to change significantly, unless gear types and fishing methods change as well. The current estimates of total landings are considered to be conservative, because the catch from inshore subsistence fisheries has not been included in these estimates.

(This page is intentionally left blank.)

A.16

Table A-1
American Samoa Annual 2014 Estimated Commercial Landings

Group				D • /
Subgroup Scientific Name	Common/local name	Lbs Sold	Estimated Value	Price/ Lb
FISHES:				
Scombridae				
Tunas				
Euthynnus affinis	Kawakawa	25	76	3.00
Katsuwonus pelamis	Skipjack tuna	276,896	212,141	0.77
Thunnus alalunga	Albacore tuna	3,163,925	4,043,707	1.28
Thunnus albacares	Yellowfin tuna	966,685	649,577	0.67
Thunnus obesus	Bigeye tuna	175,158	98,044	0.56
Tribe Thunnini (unspecified)	Tunas	91	269	2.95
Other scombrids				
Acanthocybium solandri	Wahoo	167,294	82,199	0.49
Gymnosarda unicolor	Dogtooth tuna	403	1,160	2.88
Rastrelliger brachysoma	Mackerel	163	488	3.00
Billfishes				
Istiophoridae				
Istiophorus platypterus	Sailfish	195	683	3.50
Makaira mazara	Blue marlin	2,007	1,954	0.97
Xiphiidae				
Xiphias gladius	Swordfish	836	2,313	2.77
Other fishes				
Acanthuridae (Tangs, Surgeons, U	Jnicornfishes)			
Acanthurus guttatus	Whitespotted surgeonfish	31	97	3.18
Acanthurus lineatus	Blue-banded surgeonfish	23,972	70,335	2.93
Acanthurus nigricans	Whitecheek surgeonfish	11	32	3.00
Acanthurus nigricauda	Blackstreak surgeonfish	4	13	3.50
Acanthurus nigrofuscus	Brown surgeonfish	617	1,877	3.04
Acanthurus xanthopterus	Yellowfin surgeonfish	288	891	3.09
Ctenochaetus striatus	Striped bristletooth	7,941	23,524	2.96
Naso brachycentron	Humpback unicornfish	22	77	3.50
Naso caesius	Gray unicornfish	< 1	1	2.94
Naso lituratus	Orangespine unicornfish	651	2,058	3.16
Naso spp.	Unicornfishes (unspecified)	5,318	15,824	2.98
Naso unicornis	Bluespine unicornfish	273	963	3.53
Naso vlamingii	Bignose unicornfish	4	12	3.00
Balistidae (triggerfishes)				
Balistoides viridescens	Titan triggerfish	2	7	3.00
Balistidae (unspecified)	Triggerfishes	8	23	3.00
Bramidae (pomfrets)				
Taractichthys, Eumegistus,	Pomfret (monchong)	2	6	2.98
Carangidae (jacks & trevallies)				
Caranx ignobilis	Giant trevally	24	118	5.00
Caranx lugubris	Black jack	303	988	3.26
Caranx melampygus	Bluefin trevally	107	329	3.07
Caranx sexfasciatus	Bigeye trevally	267	858	3.22
·				

A.17

Table A-1
American Samoa Annual 2014 Estimated Commercial Landings

Group			J	
Subgroup		Lbs	Estimated	Price/
Scientific Name	Common/local name	Sold	Value	Lb
Other fishes Carangidae (continued)				
Seriola dumerili	Greater amberjack	604	2,111	3.49
Scomberoides lysan	Leatherback	8	23	2.85
Selar crumenopthalmus	Bigeye scad	98	293	3.00
Elagatis bipinnulata	Rainbow runner	95	311	3.27
Carangidae (large, unspecified)	Jacks	70	214	3.08
Carangidae (small to medium,	Trevallies	102	329	3.24
Chaetodontidae (butterflyfishes)				
Chaetodontidae (unspecified)	Butterflyfishes	<1	1	3.03
Cichlidae (cichlids)	24.000111.91131145	-	-	5.05
Oreochromis sp.	Tilapia	40	73	1.82
Coryphaenidae (mahimahi/dolphi	=			
Coryphaena hippurus, C.		15.006	22.157	2 00
equiselis	Mahimahi	15,896	33,157	2.09
Diodontidae (porcupinefishes)				
Diodon holocanthus	Spiny pufferfish	42	127	3.00
Gempylidae (snake mackerels)	T J F			
Promethichthys prometheus	Snake mackerel	< 0	1	2.96
Ruvettus pretiosus	Oilfish	274	822	3.00
Haemulidae (grunts)				
Plectorhinchus spp.	Sweetlips	14	43	3.00
Holocentridae (squirrel & soldierf	•			
Myripristis amaena	Brick soldierfish	0	1	2.98
Myripristis berndti	Bigscale soldierfish	46	158	3.43
Myripristis berndti	Blotcheye soldierfish	11	36	3.23
Sargocentron spiniferum	Saber squirrelfish	142	444	3.13
Sargocentron, Neoniphon spp.	Squirrelfishes	1,964	5,691	2.90
Sargocentron tiere	Tahitian squirrelfish	11	37	3.50
Kuhliidae (flagtails)	•			
Kuhlia mugil	Barred flagtail	3	9	3.51
Kyphosidae (sea chubs)	zurivu ringum	J		5.61
Kyphosus spp. (various)	Rudderfishes	76	242	3.17
Labridae (wrasses)	Raddollishes	70	212	3.17
· · · · · · · · · · · · · · · · · · ·	Wragge	5.6	175	2 10
Labridae (unspecified) Lampridae (moonfishes onah)	Wrasses	56	175	3.10
Lampris guttatus	Moonfish (opah)	30	30	1.00
Lethridindae (emperors)	(1)			
Gnathodentex aureolineatus	Yellowspot emperor	207	620	3.00
Gymnocranius grandoculis	Blue-lined bream	15	46	3.00
Lethrinidae (unspecified)	Emperors	3,926	11,596	2.95
Lethrinus amboinensis	Ambon emperor	290	889	3.06
Lethrinus elongates	Longnose emperor	218	703	3.22
Lethrinus erythracanthus	Orangespot emperor	678	4,225	6.24
Lethrinus lentjan	Redgill emperor	295	884	3.00
Monotaxis grandoculis	Bigeye bream	85	263	3.09
O.1 01 / 11 1				

Section A: American Samoa

A.18

Table A-1
American Samoa Annual 2014 Estimated Commercial Landings

ip bgroup Scientific Name	Common/local name	Lbs Sold	Estimated Value	Price/ Lb
Scientific Ivanic	Common/local name	Solu	v aruc	LU
Lutjanidae (snappers)				
Anhareus furca	Brown iobfish	743	2.234	3.01
Aphareus rutilans	Yelloweye opakapaka (lehi, silverjaw jobfish)	2,564	7,833	3.05
Aprion virescens	Gray jobfish	3,466	10,433	3.01
Caesio caerulaurea	Gold banded fusilier	24	72	3.00
Etelis carbunculus	Ruby snapper (ehu)	517	1,564	3.02
Etelis coruscans	Longtail snapper (onaga)	3,489	12,444	3.57
Lutjanidae (unspecified)	Deep water snappers	1,385	4,167	3.01
Lutjanus bohar	Twinspot/red snapper	149	450	3.01
Lutjanus fulvus	Yellow margined snapper	5	14	3.00
Lutjanus gibbus	Humpback snapper	5,424	17,059	3.15
Lutjanus kasmira	Blue-lined snapper	2,720	8,288	3.05
Lutjanus monostigma	Onespot snapper	96	306	3.20
Lutjanus rufolineatus	Rufous snapper	5	15	3.00
Lutjanus timoriensis	Timor snapper	66	269	4.08
Macolor niger	Black snapper	45	147	3.27
Paracaesio kusakarii	Kusakar's snapper	1	3	2.99
Paracaesio stonei	Stone's snapper	56	156	2.78
Pristipomoides auricilla	Goldflag jobfish	155	481	3.11
Pristipomoides filamentosus	Pink snapper (opakapaka)	354	1,068	3.02
Pristipomoides multidens	Multidens snapper	10	48	5.00
Pristipomoides zonatus	Flower snapper (gindai)	136	409	3.00
Mugilidae (mullets)				
Liza vaigiensis	Diamond scale mullet	68	204	3.00
Mugilidae (unspecified)	Mullet	121	374	3.09
Mullidae (goatfishes)				
Mullidae (unspecified)	Goatfishes	31	99	3.23
Mulloidichthys flavolineatus	Yellowstripe goatfish	13	41	3.25
Muraenidae (moray eels)	-			
Gymnothorax spp.	Spotted moray eels	8	22	2.75
Polynemidae (threadfins)	2F			
Polydactylus sexfilis	Threadfin	9	29	3.24
Priacanthidae (glasseyes)	Timeadim	,	2)	3.24
Priacanthus blochii	Dloghia higaya	11	33	3.03
	Bloch's bigeye	11	33	3.03
Scaridae (parrotfishes)	g	60	20.4	2 00
Calotomus carolinus	Stareye parrotfish	68	204	3.00
Chlorurus japanensis	Japanese parrotfish	134	437	3.25
Chlorurus microrhinos	Steephead parrotfish	612	1,869	3.05
Scaridae (unspecified)	Parrotfishes	11,375	33,330	2.93
Scarus dimidiatus	Yellowbarred parrotfish	2	5	2.99
Scarus frenatus	Bridled parrotfish	2	5	2.99

A.19

Table A-1
American Samoa Annual 2014 Estimated Commercial Landings

Group Subgroup		Lbs	Estimated	Price/
Scientific Name	Common/local name	Sold	Value	Lb
Other fishes (continued)				
Serranidae (groupers)				
Anyperodon leucogrammicus	Slender grouper	14	41	3.00
Cephalopholis argus	Peacock grouper	95	283	2.97
Cephalopholis igarashiensis	Yellow-banded grouper	4	13	3.00
Cephalopholis sonnerati	Tomato grouper	8	25	3.00
Epinephelus fasciatus	Blacktip grouper	4	13	3.00
Epinephelus maculatus	Spotted grouper	219	661	3.02
Epinephelus melanostigma	One-blotch grouper	39	119	3.05
Epinephelus merra	Honeycomb grouper	1	3	2.49
Epinephelus morrhua	Striped grouper	1	3	2.99
Epinephelus polyphekadion	Smalltooth grouper	8	19	2.50
Epinephelus timorensis	Yellowspot grouper	7	27	4.06
Plectropomus laevis	Saddleback grouper	5	17	3.50
Serranidae (unspecified)	Groupers	566	1,773	3.13
Serranidae (unspecified)	Inshore groupers	1,046	3,091	2.96
Variola albimarginata	White-edged lyretail	1,507	4,680	3.10
Variola louti	Yellow-edged lyretail	59	171	2.88
Siganidae (rabbitfishes)				
Family: Siganidae (unspecified)	Rabbitfishes	21	69	3.27
Sphyraenidae (barracudas)				
Sphyraena barracuda	Great barracuda	12	62	5.00
Sphyraena forsteri	Bigeye barracuda	374	1,052	2.82
Sphyraena spp.	Barracudas	356	891	2.50
Sphyraena spp.	Small barracudas	870	2,790	3.21
Terapontidae (terapons)			,	
Terapon jarbua	Terapon perch	37	117	3.17
Unspecified Fish Groups	rerapen peren	37	117	5.17
Carangidae, Lutjanidae, Lethrinidae	Bottomfishes (unspecified)	1,762	5,486	3.11
Various (many) families	Reef fishes (unspecified)	6,917	20,299	2.93
various (many) families	Reel fishes (unspecified)	0,917	20,299	2.93
INVERTEBRATES:				
Crustaceans: Crabs				
Infraorder: Brachyura	Crabs	4	12	3.00
Crustaceans: Lobsters	Ciuos	7	12	3.00
Panulirus penicillatus	Sniny labeter	1,269	4,852	3.82
-	Spiny lobster	1,209	4,832	3.82
Mollusks	0.4	1 252	2.500	2.02
Octopus spp.	Octopus	1,252	3,789	3.03
Tridacna derasa	Giant clam	40	320	8.00
	Total	4,869,180	\$5,428,988	\$1.11

Table A-2 American Samoa January 2014 Estimated Commercial Landings

Group

FISHES: Scombridae Tunas Katsuwonus pelamis Thunnus alalunga Thunnus albacares Thunnus albacares Thunnus obesus Other scombrids Acanthocybium solandri Gymnosarda unicolor Rastrelliger brachysoma Billfishes Xiphiidae Xiphias gladius Other fishes Acanthurus guttatus Acanthurus guttatus Acanthurus nigricauda Acanthurus nigrofuscus Acanthurus striatus Acanthurus striatus Acanthurus striatus Ctenochaetus striatus Naso brachycentron Naso spp. Naso unicornis Carangidae (jacks & trevallies) Carangidae (mahimahi/dolnhinfish) Coryphaena hippurus, C. equiselis Holocentridae (squirrel & soldierfishes) Myripristis berndti Skipjack tuna Skipjack tuna Albacore tuna Thunnus dibacore tuna Thunnus albacore tuna Thunnus dibacore Thunnus diba	3,246 68,009 22,501 4,648 7,552 12 54	2,064 87,260 15,614 2,743 3,801 47 161	0.64 1.28 0.69 0.59
Tunas Katsuwonus pelamis Thunnus alalunga Thunnus albacares Thunnus albacares Thunnus obesus Other scombrids Acanthocybium solandri Gymnosarda unicolor Rastrelliger brachysoma Billfishes Xiphiidae Xiphias gladius Other fishes Acanthuridae (Tanos Surocons Unicornfishes) Acanthurus guttatus Acanthurus lineatus Acanthurus nigricauda Acanthurus nigrofuscus Acanthurus xanthopterus Ctenochaetus striatus Naso brachycentron Naso spp. Unicornfishes (unspecified) Carangidae (jacks & trevallies) Carangidae (farge, unspecified) Selar crumenopthalmus Bigscale soldierfishes Myripristis berndti Bigscale soldierfishes Myripristis berndti Bigscale soldierfishes	68,009 22,501 4,648 7,552 12 54	87,260 15,614 2,743 3,801 47	1.28 0.69 0.59
Tunas Katsuwonus pelamis Thunnus alalunga Thunnus albacares Thunnus abbacares Thunnus obesus Other scombrids Acanthocybium solandri Gymnosarda unicolor Rastrelliger brachysoma Billfishes Xiphiidae Xiphias gladius Other fishes Acanthuridae (Tanos Surgeons Unicornfishes) Acanthurus guttatus Acanthurus lineatus Blue-banded surgeonfish Acanthurus nigricauda Acanthurus nigrofuscus Acanthurus xanthopterus Ctenochaetus striatus Naso brachycentron Naso lituratus Naso spp. Unicornfishes (unspec Naso unicornis Carangidae (jacks & trevallies) Carangidae (saml) to medium, Caranx melampygus Seriola dumerili Selar crumenopthalmus Bigscale soldierfishes) Myripristis berndti Bigscale soldierfish Bigscale soldierfish	68,009 22,501 4,648 7,552 12 54	87,260 15,614 2,743 3,801 47	1.28 0.69 0.59
Katsuwonus pelamis Thunnus alalunga Albacore tuna Thunnus albacares Thunnus obesus Bigeye tuna Other scombrids Acanthocybium solandri Gymnosarda unicolor Rastrelliger brachysoma Billfishes Xiphiidae Xiphias gladius Other fishes Acanthuridae (Tanos Suroeons Unicornfishes) Acanthurus guttatus Acanthurus lineatus Blue-banded surgeonfish Acanthurus nigricauda Acanthurus nigricauda Blackstreak surgeonfish Acanthurus xanthopterus Ctenochaetus striatus Naso brachycentron Naso lituratus Naso spp. Vaso unicornis Carangidae (jacks & trevallies) Carangidae (small to medium, Carant melampygus Seriola dumerili Selar crumenopthalmus Bigscale soldierfishes) Myripristis berndti Bigscale soldierfish Bigscale soldierfish	68,009 22,501 4,648 7,552 12 54	87,260 15,614 2,743 3,801 47	1.28 0.69 0.59
Thunnus alalunga Thunnus albacares Thunnus obesus Bigeye tuna Other scombrids Acanthocybium solandri Gymnosarda unicolor Rastrelliger brachysoma Billfishes Xiphiidae Xiphias gladius Other fishes Acanthuridae (Tanos Suroeons Unicornfishes) Acanthurus guttatus Acanthurus lineatus Blue-banded surgeonfish Acanthurus nigricauda Acanthurus nigricauda Acanthurus nigricauda Acanthurus striatus Acanthurus Striped bristletooth Naso brachycentron Naso brachycentron Naso spp. Vaso unicornis Carangidae (jacks & trevallies) Carangidae (small to medium, Caranx melampygus Seriola dumerili Selar crumenopthalmus Coryphaena hippurus, C. equiselis Holocentridae (squirrel & soldierfishes) Myripristis berndti Bigeye tuna Yellowfin tuna Bigeye tuna Yellowfin tuna Bigeye tuna Yellow Bigeye tuna Yellow Bigeye tuna Yellow Bigeye tuna Bigeye tuna Yellow Bigeye tuna Bigeye tuna Mahimahi ellowerell Bigeye tuna Whitespotch tuna Mackerel Bluecontfishes Yellowfin surgeonfish Bluechanded surgeonfish Striped bristletooth Humpback unicornfish Orangespine unicornfish Orangespine unicornfish Crans Bluespine unicornfish Caranx melampygus Bluefin trevally Greater amberjack Bigeye scad Corvnhaenidae (mahimahi/dolnhinfish) Coryphaena hippurus, C. equiselis Holocentridae (squirrel & soldierfishes) Myripristis berndti Bigscale soldierfish	68,009 22,501 4,648 7,552 12 54	87,260 15,614 2,743 3,801 47	1.28 0.69 0.59
Thunnus albacares Thunnus obesus Bigeye tuna Other scombrids Acanthocybium solandri Rastrelliger brachysoma Billfishes Xiphiidae Xiphias gladius Swordfish Other fishes Acanthurus guttatus Acanthurus lineatus Acanthurus nigricauda Acanthurus nigricauda Acanthurus xanthopterus Ctenochaetus striatus Naso brachycentron Naso unicornis Carangidae (Jacks & trevallies) Carangidae (Jacks & trevallies) Carangidae (small to medium, Caryphaena hippurus, C. equiselis Holocentridae (squirrel & soldierfishes) Myripristis berndti Wahoo Dogtooth tuna Mahoo Bigeye tuna Wahoo Dogtooth Wahoo Dogtooth Wahoo Dogtooth Wahoo Dogtooth Wahoo Dogtooth Unicornfishes Swordfish Unicornfishes Newrigeonfish Whitespotted surgeonfish Blue-banded surgeonfish Blue-banded surgeonfish Yellowfin surgeonfish Yellowfin surgeonfish Yellowfin surgeonfish Vellowfin surgeonfish Vellowfin surgeonfish Yellowfin surgeonfish Vellowfin surgeonfish Yellowfin surgeonfish Holocathurus nigricaud Blackstreak surgeonfish Whitespotted surgeonfish Whitespotted surgeonfish Yellowfin surgeonfish Holocathurus nigricaud Holocathurus nigricaud Holocathurus nigricauda Holocathurus nigricauda Holocathurus nigricauda Holocathurus nigricauda Holocathurus repensation Holocathurus nigricauda Holocathurus nigricauda Holocathurus nigricauda Holocathurus nigricauda Holocathurus nigric	22,501 4,648 7,552 12 54	15,614 2,743 3,801 47	0.69 0.59 0
Thunnus obesus Other scombrids Acanthocybium solandri Gymnosarda unicolor Rastrelliger brachysoma Billfishes Xiphiidae Xiphias gladius Swordfish Other fishes Acanthuridae (Tanos Surgeons Unicornfishes) Acanthurus guttatus Acanthurus lineatus Blue-banded surgeonfish Acanthurus nigricauda Blackstreak surgeonfish Acanthurus nigricauda Blackstreak surgeonfish Acanthurus nigricauda Bloebanded surgeonfish Acanthurus nigricauda Bloebanded surgeonfish Acanthurus nigricauda Blue-banded surgeonfish Acanthurus nigricauda Bloebanded surgeonfish Acanthurus nigricauda Bluespine unicornfish Acanthurus xanthopterus Ctenochaetus striatus Striped bristletooth Naso brachycentron Humpback unicornfish Naso lituratus Orangespine unicornfish Naso unicornis Bluespine unicornfish Carangidae (jacks & trevallies) Carangidae (jacks & trevallies) Carangidae (small to medium, Trevallies Caranx melampygus Bluefin trevally Seriola dumerili Greater amberjack Selar crumenopthalmus Bigeye scad Corvohaenidae (mahimahi/dolphinfish) Coryphaena hippurus, C. equiselis Holocentridae (squirrel & soldierfishes) Myripristis berndti Bigscale soldierfish	4,648 7,552 12 54	2,743 3,801 47	0.59
Other scombrids Acanthocybium solandri Gymnosarda unicolor Rastrelliger brachysoma Billfishes Xiphiidae Xiphias gladius Other fishes Acanthuridae (Tanos Surgeons Unicornfishes) Acanthurus guttatus Acanthurus lineatus Blue-banded surgeonfish Acanthurus nigricauda Blackstreak surgeonfish Acanthurus nigricauda Blackstreak surgeonfish Acanthurus xanthopterus Ctenochaetus striatus Ctenochaetus striatus Striped bristletooth Naso brachycentron Naso lituratus Orangespine unicornfish Naso unicornis Carangidae (jacks & trevallies) Carangidae (jacks & trevallies) Carangidae (small to medium, Caranx melampygus Bluefin trevally Seriola dumerili Selar crumenopthalmus Bigeye scad Corvphaenidae (mahimahi/dolphinfish) Coryphaena hippurus, C. equiselis Holocentridae (squirrel & soldierfishes) Myripristis berndti Bigscale soldierfish	7,552 12 54	3,801 47	(
Acanthocybium solandri Gymnosarda unicolor Rastrelliger brachysoma Billfishes Xiphiidae Xiphias gladius Swordfish Other fishes Acanthuridae (Tanos Surgeons Unicornfishes) Acanthurus guttatus Acanthurus lineatus Blue-banded surgeonfish Acanthurus nigricauda Acanthurus nigrofuscus Acanthurus xanthopterus Ctenochaetus striatus Naso brachycentron Naso lituratus Naso spp. Unicornfishes (unspec Naso unicornis Carangidae (jacks & trevallies) Carangidae (small to medium, Caranx melampygus Seriola dumerili Selar crumenopthalmus Bigscale soldierfish Myripristis berndti Bigscale soldierfish Bigscale soldierfish	12 54 239	47	3
Gymnosarda unicolor Rastrelliger brachysoma Billfishes Xiphiidae Xiphias gladius Other fishes Acanthuridae (Tanos Surgeons Unicornfishes) Acanthurus guttatus Acanthurus lineatus Acanthurus nigricauda Acanthurus nigrofuscus Acanthurus xanthopterus Ctenochaetus striatus Naso brachycentron Naso spp. Unicornfishes (unspec Naso unicornis Carangidae (jacks & trevallies) Carangidae (small to medium, Carant melampygus Seriola dumerili Selar crumenopthalmus Coryphaena hippurus, C. equiselis Myripristis berndti Bigscale soldierfishes	12 54 239	47	3
Rastrelliger brachysoma Billfishes Xiphiidae Xiphiis gladius Other fishes Acanthuridae (Tanos Surgeons Unicornfishes) Acanthurus guttatus Acanthurus lineatus Acanthurus nigricauda Acanthurus nigricauda Acanthurus xanthopterus Ctenochaetus striatus Naso brachycentron Naso spp. Naso unicornis Carangidae (jacks & trevallies) Carangidae (small to medium, Caranx melampygus Seriola dumerili Selar crumenopthalmus Coryphaena hippurus, C. equiselis Holocentridae (squirrel & soldierfishes) Myripristis berndti Mickerel Mackerel Swordfish Swordfish Ohicornfishes Whitespotted surgeonfish Blue-banded surgeonfish Blue-banded surgeonfish Blue-banded surgeonfish Striped bristletooth Humpback unicornfish Orangespine unicornfish Orangespine unicornfish Orangespine unicornfish Unicornfishes (unspec Bluespine unicornfish Trevallies Greater amberjack Bigeye scad Corvnhaenidae (mahimahi/dolphinfish) Coryphaena hippurus, C. equiselis Holocentridae (squirrel & soldierfishes)	239		
Billfishes Xiphiidae Xiphiias gladius Swordfish Other fishes Acanthuridae (Tanos Surgeons Unicornfishes) Acanthurus guttatus Acanthurus lineatus Blue-banded surgeonfish Acanthurus nigrofuscus Brown surgeonfish Acanthurus xanthopterus Ctenochaetus striatus Striped bristletooth Naso brachycentron Naso lituratus Naso spp. Unicornfishes (unspec Naso unicornis Carangidae (jacks & trevallies) Carangidae (jacks & trevallies) Carangidae (small to medium, Caranx melampygus Seriola dumerili Selar crumenopthalmus Sequiselis Holocentridae (squirrel & soldierfishes) Myripristis berndti Bigscale soldierfish	239	101	•
Xiphiidae Xiphias gladius Swordfish Other fishes Acanthuridae (Tanos Surgeons Unicornfishes) Acanthurus guttatus Acanthurus lineatus Acanthurus nigricauda Acanthurus nigrofuscus Acanthurus xanthopterus Ctenochaetus striatus Naso brachycentron Naso lituratus Naso spp. Carangidae (jacks & trevallies) Carangidae (jacks & trevallies) Carangidae (small to medium, Carans melampygus Seriola dumerili Selar crumenopthalmus Coryphaena hippurus, C. equiselis Myripristis berndti Linicornfishes) Unicornfishes) Whitespotted surgeonfish Blue-banded surgeonfish Blue-banded surgeonfish Slue-banded surgeonfish Yellowfin surgeonfish Yellowfin surgeonfish Yellowfin surgeonfish Yellowfin surgeonfish Yellowfin surgeonfish Orangespine unicornfish Unicornfishes (unspec Bluespine unicornfish Unicornfishes (unspec Bluespine unicornfish Greater amberjack Bigeye scad Corvnhaenidae (mahimahi/dolphinfish) Coryphaena hippurus, C. equiselis Holocentridae (squirrel & soldierfishes) Myripristis berndti Bigscale soldierfish			
Xiphias gladiusSwordfishOther fishesAcanthuridae (Tanos Surgeons Acanthurus guttatus Acanthurus lineatus Acanthurus lineatus Acanthurus nigricauda Acanthurus nigrofuscus Brown surgeonfish Acanthurus xanthopterus Yellowfin surgeonfish Yellowfin surgeonfish Acanthurus xanthopterus Yellowfin surgeonfish Striped bristletooth Humpback unicornfish Naso brachycentron Humpback unicornfish Naso spp. Unicornfishes (unspec Naso unicornis Bluespine unicornfish Carangidae (jacks & trevallies)Carangidae (jacks & trevallies)Carangidae (large, unspecified) Jacks Carangidae (small to medium, Trevallies Greater amberjack Selar crumenopthalmus Bigeye scadCorvnhaenidae (mahimahi/dolbhinfish)Greater amberjack Bigeye scadCorvphaena hippurus, C. equiselisMahimahiHolocentridae (squirrel & soldierfishes)Myripristis berndtiBigscale soldierfish			
Other fishes Acanthuridae (Tanos Surgeons Unicornfishes) Acanthurus guttatus Acanthurus lineatus Blue-banded surgeonfish Acanthurus nigricauda Acanthurus nigrofuscus Acanthurus xanthopterus Ctenochaetus striatus Naso brachycentron Naso lituratus Naso spp. Carangidae (jacks & trevallies) Carangidae (small to medium, Caranx melampygus Seriola dumerili Selar crumenopthalmus Coryphaena hippurus, C. equiselis Myripristis berndti Whitespotted surgeonfish Whitespotted surgeonfish Whitespotted surgeonfish Whitespotted surgeonfish Blue-banded surgeonfish Striped bristletooth Humpback unicornfish Orangespine unicornfish Unicornfishes (unspec Bluespine unicornfish Trevallies Greater amberjack Bigeye scad Coryphaena hippurus, C. equiselis Holocentridae (squirrel & soldierfishes) Myripristis berndti Bigscale soldierfish		777	3.25
Acanthurus guttatus Whitespotted surgeonfi Acanthurus lineatus Blue-banded surgeonfi Acanthurus nigricauda Blackstreak surgeonfish Acanthurus nigrofuscus Brown surgeonfish Acanthurus xanthopterus Yellowfin surgeonfish Ctenochaetus striatus Striped bristletooth Naso brachycentron Humpback unicornfish Naso spp. Unicornfishes (unspec Naso unicornis Bluespine unicornfish Carangidae (jacks & trevallies) Carangidae (jacks & trevallies) Carangidae (small to medium, Trevallies Caranx melampygus Bluefin trevally Seriola dumerili Greater amberjack Selar crumenopthalmus Bigeye scad Corvnhaenidae (mahimahi/dolphinfish) Coryphaena hippurus, C. equiselis Holocentridae (squirrel & soldierfishes) Myripristis berndti Bigscale soldierfish		,,,	J. 2 .
Acanthurus lineatus Acanthurus nigricauda Blackstreak surgeonfis Acanthurus nigrofuscus Brown surgeonfish Yellowfin surgeonfish Yellowfin surgeonfish Striped bristletooth Naso brachycentron Naso lituratus Naso spp. Unicornfishes (unspec Naso unicornis Bluespine unicornfish Carangidae (jacks & trevallies) Carangidae (large, unspecified) Carangidae (small to medium, Caranx melampygus Bluefin trevally Seriola dumerili Selar crumenopthalmus Bigeye scad Corvnhaenidae (mahimahi/dolphinfish) Coryphaena hippurus, C. equiselis Holocentridae (squirrel & soldierfishes) Myripristis berndti Blackstreak surgeonfis Brown surgeonfish Striped bristletooth Humpback unicornfish Orangespine unicornfish Unicornfishes (unspec Bluespine unicornfish Trevallies Greater Greater amberjack Bigeye scad Corvnhaenidae (mahimahi/dolphinfish) Coryphaena hippurus, C. equiselis Bigscale soldierfish			
Acanthurus nigricauda Acanthurus nigrofuscus Acanthurus xanthopterus Ctenochaetus striatus Naso brachycentron Naso lituratus Naso spp. Unicornfishes (unspec Naso unicornis Carangidae (jacks & trevallies) Carangidae (small to medium, Caranx melampygus Seriola dumerili Selar crumenopthalmus Coryphaena hippurus, C. equiselis Holocentridae (squirrel & soldierfishes) Brown surgeonfish Striped bristletooth Humpback unicornfish Orangespine unicornfish Orangespine unicornfish Unicornfishes (unspec Bluespine unicornfish Carangidae (jacks & trevallies) Jacks Carangidae (small to medium, Trevallies Greater amberjack Bigeye scad Corvnhaenidae (mahimahi/dolphinfish) Coryphaena hippurus, C. equiselis Holocentridae (squirrel & soldierfishes) Myripristis berndti Bigscale soldierfish		10	3.7
Acanthurus nigrofuscus Acanthurus xanthopterus Ctenochaetus striatus Naso brachycentron Naso lituratus Naso spp. Unicornfishes (unspec Naso unicornis Carangidae (jacks & trevallies) Carangidae (large, unspecified) Carangidae (small to medium, Caranx melampygus Seriola dumerili Selar crumenopthalmus Coryphaena hippurus, C. equiselis Holocentridae (squirrel & soldierfishes) Brown surgeonfish Yellowfin surgeonfish		7,456	2.92
Acanthurus xanthopterus Ctenochaetus striatus Naso brachycentron Naso lituratus Naso spp. Naso unicornis Carangidae (jacks & trevallies) Carangidae (large, unspecified) Carangidae (small to medium, Caranx melampygus Seriola dumerili Selar crumenopthalmus Coryphaena hippurus, C. equiselis Holocentridae (squirrel & soldierfishes) Striped bristletooth Humpback unicornfish Unicornfish Grangespine unicornfish Unicornfishes (unspec Bluespine unicornfish Trevallies Bluesin trevally Greater amberjack Bigeye scad Coryphaenidae (mahimahi/dolphinfish) Coryphaena hippurus, C. equiselis Bigscale soldierfishes)	h 4	13	3.5
Ctenochaetus striatusStriped bristletoothNaso brachycentronHumpback unicornfishNaso lituratusOrangespine unicornfiNaso spp.Unicornfishes (unspecNaso unicornisBluespine unicornfishCarangidae (jacks & trevallies)JacksCarangidae (small to medium,TrevalliesCaranx melampygusBluefin trevallySeriola dumeriliGreater amberjackSelar crumenopthalmusBigeye scadCorvnhaenidae (mahimahi/dolphinfish)Coryphaena hippurus, C.equiselisMahimahiHolocentridae (squirrel & soldierfishes)Myripristis berndtiBigscale soldierfish	4	17	4.0
Naso brachycentron Naso lituratus Orangespine unicornfish Naso spp. Unicornfishes (unspec Naso unicornis Bluespine unicornfish Carangidae (jacks & trevallies) Carangidae (large, unspecified) Carangidae (small to medium, Caranx melampygus Seriola dumerili Selar crumenopthalmus Selar crumenopthalmus Bigeye scad Corvnhaenidae (mahimahi/dolphinfish) Coryphaena hippurus, C. equiselis Holocentridae (squirrel & soldierfishes) Myripristis berndti Bigscale soldierfish	27	102	3.7
Naso lituratus Naso spp. Naso unicornis Carangidae (jacks & trevallies) Carangidae (large, unspecified) Carangidae (small to medium, Caranx melampygus Seriola dumerili Selar crumenopthalmus Coryphaenidae (mahimahi/dolphinfish) Coryphaena hippurus, C. equiselis Holocentridae (squirrel & soldierfishes) Myripristis berndti Unicornfishes (unspec Bluespine unicornfish Jacks Trevallies Greater amberjack Bigeye scad Coryphaenidae (mahimahi/dolphinfish) Mahimahi Bigscale soldierfishes)	403	1,145	2.8
Naso spp. Naso unicornis Carangidae (jacks & trevallies) Carangidae (large, unspecified) Carangidae (small to medium, Caranx melampygus Seriola dumerili Selar crumenopthalmus Corvphaenidae (mahimahi/dolphinfish) Coryphaena hippurus, C. equiselis Holocentridae (squirrel & soldierfishes) Myripristis berndti Bluespine unicornfishe Jacks Trevallies Greater amberjack Bigeye scad Corvphaenidae (mahimahi/dolphinfish) Coryphaena hippurus, C. equiselis Bigscale soldierfishes)	14	50	3.5
Naso unicornis Carangidae (jacks & trevallies) Carangidae (large, unspecified) Carangidae (small to medium, Trevallies Caranx melampygus Bluefin trevally Seriola dumerili Greater amberjack Selar crumenopthalmus Bigeye scad Corvnhaenidae (mahimahi/dolnhinfish) Coryphaena hippurus, C. equiselis Holocentridae (squirrel & soldierfishes) Myripristis berndti Bigscale soldierfish		58	3.8
Carangidae (jacks & trevallies) Carangidae (large, unspecified) Carangidae (small to medium, Trevallies Caranx melampygus Bluefin trevally Seriola dumerili Greater amberjack Selar crumenopthalmus Bigeye scad Corvnhaenidae (mahimahi/dolphinfish) Coryphaena hippurus, C. Mahimahi equiselis Holocentridae (squirrel & soldierfishes) Myripristis berndti Bigscale soldierfish		812	2.8
Carangidae (large, unspecified) Carangidae (small to medium, Caranx melampygus Seriola dumerili Selar crumenopthalmus Corvnhaenidae (mahimahi/dolphinfish) Coryphaena hippurus, C. equiselis Holocentridae (squirrel & soldierfishes) Myripristis berndti Jacks Trevallies Bigeselies Bigeseje scad Greater amberjack Bigeye scad Mahimahi Coryphaena hippurus, C. Mahimahi Bigscale soldierfishes)	82	319	3.8
Carangidae (small to medium, Trevallies Caranx melampygus Bluefin trevally Seriola dumerili Greater amberjack Selar crumenopthalmus Bigeye scad Corvnhaenidae (mahimahi/dolphinfish) Coryphaena hippurus, C. Mahimahi equiselis Holocentridae (squirrel & soldierfishes) Myripristis berndti Bigscale soldierfish			
Caranx melampygus Seriola dumerili Selar crumenopthalmus Greater amberjack Selar crumenopthalmus Bigeye scad Corvnhaenidae (mahimahi/dolphinfish) Coryphaena hippurus, C. equiselis Holocentridae (squirrel & soldierfishes) Myripristis berndti Bigscale soldierfish	18	54	3.0
Seriola dumerili Greater amberjack Selar crumenopthalmus Bigeye scad Corvnhaenidae (mahimahi/dolphinfish) Coryphaena hippurus, C. Mahimahi equiselis Holocentridae (squirrel & soldierfishes) Myripristis berndti Bigscale soldierfish	22	79	3.63
Selar crumenopthalmus Corvnhaenidae (mahimahi/dolphinfish) Coryphaena hippurus, C. equiselis Holocentridae (squirrel & soldierfishes) Myripristis berndti Bigscale soldierfish	77	230	3.00
Corvnhaenidae (mahimahi/dolphinfish) Coryphaena hippurus, C. Mahimahi equiselis Holocentridae (squirrel & soldierfishes) Myripristis berndti Bigscale soldierfish	193	579	3.00
Coryphaena hippurus, C. equiselis Holocentridae (squirrel & soldierfishes) Myripristis berndti Bigscale soldierfish	3	8	3.00
equiselis Holocentridae (squirrel & soldierfishes) Myripristis berndti Bigscale soldierfish			
Holocentridae (squirrel & soldierfishes) Myripristis berndti Bigscale soldierfish	90	128	1.42
Myripristis berndti Bigscale soldierfish			
, ,	8	27	3.54
Sargocentron spiniferum Saber squirrelfish	6		3.7:
Sargocentron, Neoniphon spp. Squirrelfishes	130		2.92
Kyphosidae (sea chubs)	150	501	2.72
	12	47	2.74
Kyphosus spp. (various) Rudderfishes	13	47	3.75
Lethrinidae (emperors)			<i>-</i> -
Lethrinidae (unspecified) Emperors	106		3.73
Lethrinus amboinensis Ambon emperor			3.50
Lethrinus elongates Longnose emperor	11		3.2
Monotaxis grandoculis Bigeye bream Other fishes (continued)		22	3.7

Section A: American Samoa

A.21

Table A-2 **American Samoa January 2014 Estimated Commercial Landings**

(Group
	Subgroup
	Scientific N
	Lutjanidae (

Subgroup Scientific Name	Common/local name	Lbs Sold	Estimated Value	Price/ Lb
Scientific Name	Common/local name	Solu	vaiue	LU
Lutjanidae (snappers)				
Aprion virescens	Gray jobfish	177	621	3.50
Etelis carbunculus	Ruby snapper (ehu)	19	82	4.32
Etelis coruscans	Longtail snapper (onaga)	151	528	3.50
Lutjanus gibbus	Humpback snapper	220	770	3.50
Lutjanus kasmira	Blue-lined snapper	34	118	3.50
Pristipomoides zonatus	Flower snapper (gindai)	8	31	4.00
Mugilidae (mullets)				
Mugilidae (unspecified)	Mullet	14	53	3.75
Mullidae (goatfishes)				
Mulloidichthys flavolineatus	Yellowstripe goatfish	2	9	3.99
Polynemidae (threadfins)				
Polydactylus sexfilis	Threadfin	2	7	3.00
Scaridae (parrotfishes)				
Scaridae (unspecified)	Parrotfishes	756	2,234	2.96
Serranidae (groupers)			,	
Epinephelus maculatus	Spotted grouper	18	59	3.25
Serranidae (unspecified)	Groupers	66	244	3.69
Serranidae (unspecified)	Inshore groupers	294	868	2.95
Plectropomus laevis	Saddleback grouper	5	17	3.50
Variola albimarginata	White-edged lyretail	15	56	3.75
Sphyraenidae (barracudas)				
Sphyraena forsteri	Bigeye barracuda	22	77	3.50
Sphyraena spp.	Small barracudas	68	221	3.25
Terapontidae (terapons)				
Terapon jarbua	Terapon perch	4	17	3.75
Unspecified Fish Groups	1 1			
Carangidae, Lutjanidae, Lethrinida	Bottomfishes (unspecified)	1,762	5,486	3.11
Various (many) families	Reef fishes (unspecified)	6,917	20,299	2.93
•	(1 /	,	,	
INVERTEBRATES:				
Crustaceans: Crabs				
Infraorder: Brachyura	Crabs	4	12	3.00
Crustaceans: Lobsters				
Panulirus penicillatus	Spiny lobster	192	831	4.33
	Total	112,921	\$132,779	\$1.18

Table A-3 American Samoa February 2014 Estimated Commercial Landings

Group

Subgroup			Estimated	
Scientific Name	Common/local name	Lbs Sold		Price/ Lb
FISHES: Scombridae				
Tunas				
Katsuwonus pelamis	Skipjack tuna	6,150	3,988	0.65
Thunnus alalunga	Albacore tuna	36,714	46,994	1.28
Thunnus albacares	Yellowfin tuna	40,070	27,559	0.69
Thunnus obesus	Bigeye tuna	3,298	1,946	0.59
Other scombrids				
Acanthocybium solandri	Wahoo	5,146	2,573	0.50
Gymnosarda unicolor	Dogtooth tuna	34	113	3.38
Billfishes				
Istionhoridae Istiophorus platypterus	Sailfish	195	683	3.50
Makaira mazara	Blue marlin	448	313	0.70
Other fishes	Dide marmi	440	313	0.70
Acanthuridae (Tangs. Surgeons	Unicornfishes)			
Acanthurus guttatus	Whitespotted surgeonfish	2	6	3.50
Acanthurus lineatus	Blue-banded surgeonfish	3,239	9,331	2.88
Ctenochaetus striatus	Striped bristletooth	517	1,505	2.91
Naso lituratus	Orangespine unicornfish	89	313	3.50
Naso spp.	Unicornfishes (unspecified)	651	1,940	2.98
Naso unicornis	Bluespine unicornfish	55	193	3.50
Carangidae (jacks & trevallies)				
Caranx lugubris	Black jack	46	149	3.25
Caranx sexfasciatus	Bigeye trevally	29	86	3.00
Carangidae (large, unspecified)	Jacks	1	3	3.04
Carangidae (small to medium,	Trevallies	33	104	3.13
Seriola dumerili	Greater amberjack	88	264	3.00
Selar crumenopthalmus	Bigeye scad	32	97	3.00
Coryphaenidae (mahimahi/dolp	ohinfish)			
Coryphaena hippurus, C.	Mahimahi	147	208	1.42
equiselis				
Haemulidae (grunts)	G di	1.4	42	2.00
Plectorhinchus spp.	Sweetlips	14	43	3.00
Holocentridae (squirrel & soldie				
Myripristis berndti	Bigscale soldierfish	27	95	3.50
Myripristis berndti	Blotcheye soldierfish	5	16	3.50
Sargocentron spiniferum	Saber squirrelfish	48	152	3.17
Sargocentron, Neoniphon spp.	Squirrelfishes Tahitian squirrelfish	228	632	2.77
Sargocentron tiere	ramuan squirremsn	8	28	3.50
Lethrinidae (emperors)	P	205	600	2.20
Lethrinidae (unspecified)	Emperors	207	680	3.28
Lethrinus amboinensis	Ambon emperor	25 112	88	3.50
Lethrinus elongatus	Longnose emperor	113	368	3.25
Monotaxis grandoculis	Bigeye bream	7	26	3.50
		,		2.20

Table A-3
American Samoa February 2014 Estimated Commercial Landings

Group Subgroup Estimated Scientific Name Common/local name Lbs Sold Value Price/ Lb Other fishes (continued) Lutjanidae (snappers) Yelloweye opakapaka (lehi, Aphareus rutilans 35 113 3.25 silverjaw jobfish) Aprion virescens Gray jobfish 218 678 3.12 Etelis coruscans Longtail snapper (onaga) 45 134 3.00 Deep water snappers Lutjanidae (unspecified) 23 68 3.00 Lutjanus gibbus Humpback snapper 317 1,041 3.28 Lutjanus kasmira Blue-lined snapper 219 712 3.25 Onespot snapper Lutjanus monostigma 35 121 3.45 Macolor niger Black snapper 5 16 3.24 Pristipomoides auricilla Goldflag jobfish 9 26 3.00 Pristipomoides zonatus Flower snapper (gindai) 1 3 2.99 Mullidae (goatfishes) 3.5 Mulloidichthys flavolineatus Yellowstripe goatfish 1 4 Muraenidae (moray eels) Gymnothorax spp. Spotted moray eels 8 22 2.75 Scaridae (parrotfishes) Scaridae (unspecified) Parrotfishes 1,108 3,189 2.88 Serranidae (groupers) Cephalopholis argus Peacock grouper 18 53 3.00 Serranidae (unspecified) Groupers 100 333 3.32 Serranidae (unspecified) Inshore groupers 58 2.94 171 Variola albimarginata White-edged lyretail 5 17 3.25 9 Variola louti Yellow-edged lyretail 27 3.00 Siganidae (rabbitfishes) Siganidae (unspecified) Rabbitfishes 3 12 3.50 Sphyraenidae (barracudas) Sphyraena forsteri Bigeye barracuda 8 25 3.25 Small barracudas Sphyraena spp. 91 289 3.18 **Unspecified Fish Groups** Carangidae, Lutjanidae, Lethrinidae Bottomfishes (unspecified) 1,762 5,486 3.11 Various (many) families Reef fishes (unspecified) 6,917 20,299 2.93 **INVERTEBRATES: Crustaceans: Lobsters** 100 4.00 Panulirus penicillatus Spiny lobstera 400 **Mollusks** Octopus spp. Octopus 166 498 3.00 Total 100,817 \$110,150 \$1.09

A.24

Table A-4 **American Samoa March 2014 Estimated Commercial Landings**

Subgroup Scientific Name	Common/local name	Lbs Sold	Estimated Value	Price/ Lb
FISHES:				
Scombridae				
Tunas				
Euthynnus affinis	Kawakawa	20	59	3.00
Katsuwonus pelamis	Skipjack tuna	24,508	16,029	0.65
Thunnus alalunga	Albacore tuna	60,575	77,536	1.28
Thunnus albacares	Yellowfin tuna	76,760	52,663	0.69
Thunnus obesus	Bigeye tuna	15,242	8,993	0.59
Other scombrids				
Acanthocybium solandri	Wahoo	10,035	5,047	0.50
Gymnosarda unicolor	Dogtooth tuna	39	135	3.50
Rastrelliger brachysoma	Mackerel	70	211	3.00
Billfishes				
Istiophoridae				
Makaira mazara	Blue marlin	209	178	0.85
Other fishes				
Acanthuridae (Tangs, Surgeons, U	Jnicornfishes)			
Acanthurus lineatus	Blue-banded surgeonfish	1,425	4,052	2.84
Acanthurus nigrofuscus	Brown surgeonfish	10	37	3.75
Acanthurus xanthopterus	Yellowfin surgeonfish	25	94	3.75
Ctenochaetus striatus	Striped bristletooth	652	1,952	2.99
Naso lituratus	Orangespine unicornfish	55	197	3.58
Naso spp.	Unicornfishes (unspecified)	603	1,736	2.88
Naso unicornis	Bluespine unicornfish	56	205	3.68
Carangidae (jacks & trevallies)				
Caranx lugubris	Black jack	5	17	3.25
Caranx melampygus	Bluefin trevally	16	48	3.00
Caranx sexfasciatus	Bigeye trevally	115	403	3.50
Carangidae (large, unspecified)	Jacks	12	38	3.25
Carangidae (small to medium,	Trevallies	5	17	3.25
Seriola dumerili	Greater amberjack	69	207	3.00
Selar crumenopthalmus	Bigeye scad	32	97	3.00
Coryphaenidae (mahimahi/dolphi	nfish)			
Coryphaena hippurus, C. equiselis	Mahimahi	417	592	1.42
Holocentridae (squirrel & soldierf	ishes)			
Sargocentron spiniferum	Saber squirrelfish	15	54	3.50
Sargocentron spp., Neoniphon	Squirrelfishes	114	310	2.72
Kuhliidae (flagtails)	-			
Kuhlia mugil	Barred flagtail	3	9	3.51
Kyphosidae (sea chubs)		-		

A.25

Table A-4
American Samoa March 2014 Estimated Commercial Landings

Subgroup Scientific Name	Common/local name	Lbs Sold	Estimated Value	Price/ Lb
Other fishes (continued)				
Lethrinidae (emperors)				
Lethrinidae (unspecified)	Emperors	643	2,157	3.3
Lethrinus elongatus	Longnose emperor	5	17	3.2
Lutjanidae (snappers)				
Aphareus furca	Brown jobfish	19	63	3.2
Aphareus rutilans	Yelloweye opakapaka	27	88	3.2
Aprion virescens	Gray jobfish	776	2,439	3.1
Etelis carbunculus	Ruby snapper (ehu)	50	161	3.2
Lutjanidae (unspecified)	Deep water snappers	45	146	3.2
Lutjanus bohar	Twinspot/red snapper	6	19	3.2
Lutjanus gibbus	Humpback snapper	1,074	3,559	3.3
Lutjanus kasmira	Blue-lined snapper	354	1,173	3.3
Lutjanus monostigma	Onespot snapper	4	12	3.2
Macolor niger	Black snapper	8	27	3.2
Pristipomoides auricilla	Goldflag jobfish	63	205	3.2
Mullidae (goatfishes)				
Mullidae (unspecified)	Goatfishes	6	20	3.5
Scaridae (parrotfishes)				
Scaridae (unspecified)	Parrotfishes	962	2,712	2.8
Serranidae (groupers)			,	
Serranidae (unspecified)	Groupers	88	296	3.3
Serranidae (unspecified)	Inshore groupers	49	144	2.9
Variola albimarginata	White-edged lyretail	11	36	3.3
Variola louti	Yellow-edged lyretail	2	6	3.2
Siganidae (rabbitfishes)				
Siganidae (unspecified)	Rabbitfishes	6	20	3.5
Sphyraenidae (barracudas)	Rabbitishes	O	20	3.5
Sphyraena forsteri	Bigeye barracuda	5	17	3.2
Sphyraena spp.	Small barracudas	156	525	3.3
	Sman barracudas	130	323	3
Unspecified Fish Groups	Doof Solves	6.017	20.200	2.0
Various (many) families	Reef fishes	6,917	20,299	2.9
VERTEBRATES:				
Crustaceans: Lobsters				
Panulirus penicillatus	Spiny lobster	58	241	4.1
Mollusks	Spiny 1005ter	50	2⊣1	7.1
Octopus spp.	Octobus	403	1 242	3.0
Octopus spp.	Octopus	403	1,243	3.0
	Total	196,275	\$187,238	\$0

A.26

Table A-5 American Samoa April 2014 Estimated Commercial Landings

Group				
Subgroup			Estimated	Price/
Scientific Name	Common/local name	Lbs Sold	Value	Lb
FISHES:				
Scombridae				
Tunas				
Euthynnus affinis	Kawakawa	6	17	3.00
Katsuwonus pelamis	Skipjack tuna	9,642	5,027	0.52
Thunnus alalunga	Albacore tuna	168,158	198,427	1.18
Thunnus albacares	Yellowfin tuna	178,479	105,854	0.59
Thunnus obesus	Bigeye tuna	10,552	5,276	0.50
Other scombrids				
Acanthocybium solandri	Wahoo	10,762	5,402	0.50
Rastrelliger brachysoma	Mackerel	14	41	3.00
Billfishes				
Istiophoridae				
Makaira mazara	Blue marlin	579	376	0.65
Other fishes	Dide marmi	317	370	0.03
Acanthuridae (Tangs, Surgeons, U				
Acanthurus lineatus	Blue-banded surgeonfish	2,083	5,977	2.87
Acanthurus nigrofuscus	Brown surgeonfish	3	9	3.38
Ctenochaetus striatus	Striped bristletooth	795	2,334	2.93
Naso brachycentron	Humpback unicornfish	8	28	3.50
Naso lituratus	Orangespine unicornfish	5	16	3.32
Naso spp.	Unicornfishes (unspecified)	344	1,032	3.00
Naso unicornis	Bluespine unicornfish	8	27	3.38
Balistidae (triggerfishes)				
Balistidae (unspecified)	Triggerfishes	1	4	3.01
Carangidae (jacks & trevallies)				
Carangidae (large, unspecified)	Jacks	9	29	3.25
Carangidae (small to medium,	Trevallies	0	0	
Caranx lugubris	Black jack	0	0	
Caranx melampygus	Bluefin trevally	2	6	3.01
Seriola dumerili	Greater amberjack	7	22	3.25
Scomberoides lysan	Leatherback	4	13	2.85
Coryphaenidae (mahimahi/dolphin	fish)			
Coryphaena hippurus, C.	Mahimahi	1,433	2,851	1.99
equiselis		1,133	2,031	1.,,,
Holocentridae (squirrel & soldierfi				
Myripristis berndti	Bigscale soldierfish	< 1	1	3.00
Myripristis berndti	Blotcheye soldierfish	1	1	2.98
Sargocentron spp., Neoniphon	Squirrelfishes	173	507	2.93
Lethrinidae (emperors)				
Lethrinidae (unspecified)	Emperors	320	1,077	3.36
Lethrinus amboinensis	Ambon emperor	2	6	3.00
Monotaxis grandoculis	Bigeye bream	3	8	3.00

A.27

Table A-5 American Samoa April 2014 Estimated Commercial Landings

Group				
Subgroup			Estimated	Price
Scientific Name	Common/local name	Lbs Sold	Value	Ll
Other fishes (continued)				
Lutjanidae (snappers)				
Aprion virescens	Gray jobfish	385	1,352	3.51
Etelis carbunculus	Ruby snapper (ehu)	43	170	3.95
Lutjanus gibbus	Humpback snapper	374	1,251	3.34
Lutjanus kasmira	Blue-lined snapper	225	833	3.71
Pristipomoides zonatus	Flower snapper (gindai)	28	111	3.95
Mugilidae (mullets)	7 (S)			
Mugilidae (unspecified)	Mullet	3	9	3.00
Mullidae (goatfishes)				
Mullidae (unspecified)	Goatfishes	2	9	3.75
Scaridae (parrotfishes)				
Scaridae (unspecified)	Parrotfishes	1,198	3,467	2.89
Serranidae (groupers)		,	-,	
Serranidae (unspecified)	Groupers	46	182	3.95
Serranidae (unspecified)	Inshore groupers	49	139	2.81
Variola albimarginata	White-edged lyretail	7	23	3.38
Siganidae (rabbitfishes)				
Siganidae (unspecified)	Rabbitfishes	2	7	3.50
Unspecified Fish Groups		_	•	
Carangidae, Lutjanidae,				
Lethrinidae & Serranidae	Bottomfishes (unspecified)	1,762	5,486	3.11
Various (many) families	Reef fishes (unspecified)	6,917	20,299	2.93
INVERTEBRATES:				
Crustaceans: Lobsters				
Panulirus penicillatus	Spiny lobster	32	106	3.31
Mollusks				
Octopus spp.	Octopus	416	1,250	3.00
	Total	386,915	\$345,438	\$0.89

A.28

Table A-6 American Samoa May 2014 Estimated Commercial Landings

Group	· ·		O	
Subgroup			Estimated	Price/
Scientific Name	Common/local name	Lbs Sold	Value	Lb
FISHES:				
Scombridae				
Tunas				
Katsuwonus pelamis	Skipjack tuna	8,024	4,392	0.55
Thunnus alalunga	Albacore tuna	203,894	265,062	1.30
Thunnus albacares	Yellowfin tuna	161,692	98,453	0.61
Thunnus obesus	Bigeye tuna	10,113	2,528	0.25
Other scombrids				
Acanthocybium solandri	Wahoo	9,760	5,199	0.53
Rastrelliger brachysoma	Mackerel	25	76	3.00
Billfishes				
Istiophoridae				
Makaira mazara	Blue marlin	100	125	1.25
Other fishes				
Acanthuridae (Tangs, Surgeons, U	Jnicornfishes)			
Acanthurus lineatus	Blue-banded surgeonfish	1,588	4,640	2.92
Ctenochaetus striatus	Striped bristletooth	966	2,795	2.89
Naso lituratus	Orangespine unicornfish	< 1	1	3.00
Naso spp.	Unicornfishes (unspecified)	438	1,300	2.97
Balistidae (triggerfishes)				
Balistidae (unspecified)	Triggerfishes	5	14	3.00
Carangidae (jacks & trevallies)				
Carangidae (large, unspecified)	Jacks	2	8	3.04
Carangidae (small to medium,	Trevallies			
unspecified)		2	5	3.22
Caranx lugubris	Black jack	54	155	2.86
Caranx melampygus	Bluefin trevally	2	5	2.49
Caranx sexfasciatus	Bigeye trevally	2	7	3.07
Seriola dumerili	Greater amberjack	63	205	3.24
Scomberoides lysan	Leatherback	4	10	2.85
Selar crumenopthalmus	Bigeye scad	17	50	3.00
Elagatis bipinnulata	Rainbow runner	5	15	2.74
Coryphaenidae (mahimahi/dolphi	nfish)			
Coryphaena hippurus, C.	Mahimahi	598	0.40	1.42
equiselis	Manimani	398	848	1.42
Gempylidae (snake mackerels)	C = -111	. 1	1	2.06
Promethichthys prometheus	Snake mackerel	< 1	1	2.96
Holocentridae (squirrel & soldierfi				
Myripristis berndti	Bigscale soldierfish	4	14	3.49
Myripristis berndti	Blotcheye soldierfish	2	5	3.22
Sargocentron spiniferum	Saber squirrelfish	13	33	2.58
Sargocentron spp., Neoniphon	Squirrelfishes			
spp.	1	220	522	2.38
Labridae (wrasses)				
Labridae (unspecified)	Wrasses	2	6	3.08

Table A-6
American Samoa May 2014 Estimated Commercial Landings

Group	-		O	
Subgroup			Estimated	Price
Scientific Name	Common/local name	Lbs Sold	Value	Lb
Other fishes (continued)				
Lethrinidae (emperors)				
Gnathodentex aureolineatus	Yellowspot emperor	3	8	3.00
Lethrinidae (unspecified)	Emperors	497	1,331	2.68
Lethrinus amboinensis	Ambon emperor	11	33	3.04
Lethrinus erythracanthus	Orangespot emperor	13	33	2.50
Lethrinus lentjan	Redgill emperor	27	80	3.00
Monotaxis grandoculis	Bigeye bream	17	50	3.00
Lutjanidae (snappers)				
Aphareus rutilans	Yelloweye opakapaka (lehi, silverjaw jobfish)	46	139	3.00
Aprion virescens	Gray jobfish	489	1,133	2.32
Caesio caerulaurea	Gold banded fusilier	15	44	3.00
Etelis carbunculus	Ruby snapper (ehu)	71	213	3.00
Etelis coruscans	Longtail snapper (onaga)	832	3,288	3.93
Lutjanus bohar	Twinspot/red snapper	6	17	3.00
Lutjanus fulvus	Yellow margined snapper	2	5	3.0
Lutjanus gibbus	Humpback snapper	351	1,176	3.3
Lutjanus kasmira	Blue-lined snapper	402	1,021	2.5
Lutjanus monostigma	Onespot snapper	10	32	3.2
Lutjanus rufolineatus	Rufous snapper	5	15	3.0
Lutjanus timoriensis	Timor snapper	22	95	4.2
Macolor niger	Black snapper	7	23	3.3
Paracaesio stonei	Stone's snapper	28	71	2.5
Pristipomoides auricilla	Goldflag jobfish	10	31	3.1
Pristipomoides filamentosus	Pink snapper (opakapaka)	11	40	3.5
Pristipomoides multidens	Multidens snapper	5	25	5.0
Mugilidae (mullets)				
Mugilidae (unspecified)	Mullet	1	4	3.0
Mullidae (goatfishes)				
Mulloidichthys flavolineatus	Yellowstripe goatfish	1	3	3.1
Priacanthidae (glasseyes)				
Priacanthus blochii	Bloch's bigeye	2	5	3.0
Scaridae (parrotfishes)	_ =====================================		-	
Scaridae (unspecified)	Parrotfishes	1,360	3,834	2.8
Serranidae (groupers)	1 differisites	1,500	3,034	2.0
Cephalopholis argus	Peacock grouper	6	15	2.5
Epinephelus maculatus		9	27	
1 1	Spotted grouper One-blotch grouper	5	16	2.9 3.0
Epinephelus melanostigma	C 1			
Epinephelus merra Epinephelus polyphekadion	Honeycomb grouper Smalltooth grouper	1 8	3 19	2.4 2.5
Serranidae (unspecified)		8 72	235	3.2
, -	Groupers Inshore groupers	91	235	3.2 2.6
Serranidae (unspecified) Variola albimarginata	White-edged lyretail	1,303	4,043	3.1
_				2.7
Variola louti	Yellow-edged lyretail	22	60	

A.30

Table A-6 American Samoa May 2014 Estimated Commercial Landings

Subgroup Scientific Name	Common/local name	Lbs Sold	Estimated Value	Price/ Lb
Other fishes (continued)				
Sphyraenidae (barracudas)				
Sphyraena forsteri	Bigeye barracuda	70	90	1.28
Sphyraena spp.	Barracudas	10	26	2.50
Sphyraena spp.	Small barracudas	45	143	3.21
Terapontidae (terapons)				
Terapon jarbua	Terapon perch	15	46	3.15
Unspecified Fish Groups				
Carangidae, Lutjanidae, Lethrinidae & Serranidae	Bottomfishes (unspecified)	1,762	5,486	3.11
Various (many) families	Reef fishes (unspecified)	6,917	20,299	2.93
NVERTEBRATES:				
Crustaceans: Lobsters				
Panulirus penicillatus	Spiny lobster	29	132	4.52
	Total	404,536	\$407,275	\$1.01

Table A-7
American Samoa June 2014 Estimated Commercial Landings

Group				
Subgroup		Lbs	Estimated	Price/
Scientific Name	Common/local name	Sold	Value	Lb
FISHES:				
Scombridae				
Tunas				
Katsuwonus pelamis	Skipjack tuna	6,719	8,270	1.23
Thunnus alalunga	Albacore tuna	334,993	428,791	1.28
Thunnus albacares	Yellowfin tuna	109,265	74,389	0.68
Thunnus obesus	Bigeye tuna	7,584	4,475	0.59
Other scombrids				
Acanthocybium solandri	Wahoo	14,651	9,411	0.64
Gymnosarda unicolor	Dogtooth tuna	67	149	2.22
Billfishes				
Istiophoridae				
Makaira mazara	Blue marlin	533	666	1.25
Other fishes				
Acanthuridae (Tangs, Surgeons, Un	icornfishes)			
Acanthurus lineatus	Blue-banded surgeonfish	1,683	4,961	2.95
Acanthurus nigrofuscus	Brown surgeonfish	51	159	3.11
Acanthurus xanthopterus	Yellowfin surgeonfish	6	17	3.00
Ctenochaetus striatus	Striped bristletooth	558	1,693	3.03
Naso lituratus	Orangespine unicornfish	96	292	3.05
Naso spp.	Unicornfishes (unspecified)	472	1,456	3.09
Carangidae (jacks & trevallies)	\ 1		,	
Carangidae (small to medium, unspecified)	Trevallies	19	56	3.00
Caranx lugubris	Black jack	105	387	3.67
Caranx melampygus	Bluefin trevally	4	21	5.00
Caranx sexfasciatus	Bigeye trevally	6	17	3.00
Seriola dumerili	Greater amberjack	90	535	5.96
Elagatis bipinnulata	Rainbow runner	8	23	3.00
Coryphaenidae (mahimahi/dolphinfi				
Coryphaena hippurus, C. equiselis		697	1,339	1.92
Diodontidae (porcupinefishes)	Widininani	071	1,557	1.72
Diodon holocanthus	Spiny pufferfish	15	46	3.00
	Spiny puriernsii	13	40	3.00
Gempylidae (snake mackerels)	0.10.1	272	016	2.00
Ruvettus pretiosus	Oilfish	272	816	3.00
Holocentridae (squirrel & soldierfis				
Myripristis berndti	Blotcheye soldierfish	5	14	3.00
Sargocentron spiniferum	Saber squirrelfish	23	68	3.00
Sargocentron spp., Neoniphon spp		143	449	3.13
Sargocentron tiere	Tahitian squirrelfish	3	9	3.50
Kyphosidae (sea chubs)				
Kyphosus spp. (various)	Rudderfishes	4	11	3.00
Labridae (wrasses)				
Labridae (unspecified)	Wrasses	11	39	3.50
\ 1 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				

Table A-7
American Samoa June 2014 Estimated Commercial Landings

Group Subgroup Price/ Lbs Estimated Scientific Name Common/local name Sold Value Lb Other fishes (continued) Lethrinidae (emperors) **Emperors** 192 583 3.04 Lethrinidae (unspecified) 11 3.00 *Lethrinus elongatus* Longnose emperor 32 9 Lethrinus erythracanthus Orangespot emperor 46 5.00 Redgill emperor 1 2 3.01 Lethrinus lentjan Bigeye bream 4 12 3.00 Monotaxis grandoculis Lutjanidae (snappers) Aphareus furca Brown jobfish 3 9 3.00 Yelloweye opakapaka (lehi, 1,099 3.11 Aphareus rutilans 3,422 silverjaw jobfish) Gray jobfish 344 1.179 3.42 Aprion virescens Etelis carbunculus Ruby snapper (ehu) 106 419 3.95 2,983 Etelis coruscans 813 3.67 Longtail snapper (onaga) Lutjanus bohar Twinspot/red snapper 12 36 3.01 209 Lutjanus gibbus Humpback snapper 628 3.00 Lutjanus kasmira Blue-lined snapper 282 931 3.30 4 11 3.00 Lutjanus monostigma Onespot snapper 43 174 4.00 Lutjanus timoriensis Timor snapper Macolor niger Black snapper 21 68 3.33 Goldflag jobfish 45 134 3.00 Pristipomoides auricilla 2 Pristipomoides filamentosus Pink snapper (opakapaka) 7 3.50 Pristipomoides multidens Multidens snapper 5 23 5.00 Pristipomoides zonatus Flower snapper (gindai) 61 241 3.95 Mugilidae (mullets) Mugilidae (unspecified) Mullet 2 6 3.05 Mullidae (goatfishes) 22 Mullidae (unspecified) Goatfishes 7 3.33 Mulloidichthys flavolineatus Yellowstripe goatfish 2 6 3.13 Polynemidae (threadfins) Polydactylus sexfilis Threadfin 4 15 3.50 Scaridae (parrotfishes) Calotomus carolinus Stareye parrotfish 2 5 2.99 Japanese parrotfish 134 437 3.25 Chlorurus japanensis Scaridae (unspecified) Parrotfishes 745 2,209 2.97 **Serranidae** (groupers) 18 53 3.00 Cephalopholis argus Peacock grouper Epinephelus maculatus Spotted grouper 3 9 2.98 Epinephelus melanostigma One-blotch grouper 5 17 3.32 Epinephelus timorensis Yellowspot grouper 4 19 4.25 31 103 Serranidae (unspecified) Groupers 3.33 Serranidae (unspecified) Inshore groupers 13 49 3.80 32 101 3.18 Variola albimarginata White-edged lyretail Variola louti Yellow-edged lyretail 10 28 2.78

A.33

Table A-7
American Samoa June 2014 Estimated Commercial Landings

Group				
Subgroup		Lbs	Estimated	Price/
Scientific Name	Common/local name	Sold	Value	Lb
Other fishes (continued)				
Siganidae (rabbitfishes)				
Siganidae (unspecified)	Rabbitfishes	13	32	2.50
Sphyraenidae (barracudas)				
Sphyraena forsteri	Bigeye barracuda	6	17	3.00
Sphyraena spp.	Small barracudas	70	211	3.00
Terapontidae (terapons)				
Terapon jarbua	Terapon perch	5	15	3.15
Unspecified Fish Groups				
Carangidae, Lutjanidae, Lethrinidae & Serranidae	Bottomfishes (unspecified)	1,762	5,486	3.11
Various (many) families	Reef fishes (unspecified)	6,917	20,299	2.93
INVERTEBRATES:				
Crustaceans: Lobsters				
Panulirus penicillatus	Spiny lobster	236	1,039	4.40
Mollusks				
Octopus spp.	Octopus	12	36	3.00
	Total	483,642	\$556,706	\$1.15

A.34

Table A-8
American Samoa July 2014 Estimated Commercial Landings

American Samoa July 2014 Estimated Commercial Landings					
Group					
Subgroup	Common/local name	Lbs Sold	Estimated Value	Price/	
Scientific Name				Lb	
FISHES:					
Scombridae					
Tunas					
Katsuwonus pelamis	Skipjack tuna	53,036	32,350	0.61	
Thunnus alalunga	Albacore tuna	602.481	771.175	1.28	

FISHES:				
Scombridae				
Tunas				
Katsuwonus pelamis	Skipjack tuna	53,036	32,350	0.61
Thunnus alalunga	Albacore tuna	602,481	771,175	1.28
Thunnus albacares	Yellowfin tuna	185,924	123,978	0.67
Thunnus obesus	Bigeye tuna	20,555	12,127	0.59
Other scombrids				
Acanthocybium solandri	Wahoo	17,696	8,891	0.50
Billfishes				
Istiophoridae				
Makaira mazara	Blue marlin	570	832	1.46
Other fishes				
Acanthuridae (Tangs, Surgeons, Uni	cornfishes)			
Acanthurus guttatus	Whitespotted surgeonfish	22	69	3.13
Acanthurus lineatus	Blue-banded surgeonfish	1,573	4,603	2.93
Acanthurus nigricans	Whitecheek surgeonfish	11	32	3.00
Acanthurus nigrofuscus	Brown surgeonfish	154	469	3.05
Acanthurus xanthopterus	Yellowfin surgeonfish	209	637	3.05
Ctenochaetus striatus	Striped bristletooth	838	2,435	2.90
Naso lituratus	Orangespine unicornfish	241	730	3.03
Naso spp.	Unicornfishes (unspecified)	404	1,211	3.00
Naso unicornis	Bluespine unicornfish	72	219	3.05
Naso vlamingii	Bignose unicornfish	4	12	3.00
Balistidae (triggerfishes)				
Balistoides viridescens	Titan triggerfish	2	7	3.00
Bramidae (pomfrets)				
Taractichthys, Eumegistus, Brama				
(unspecified)	Pomfret (monchong)	2	6	2.98
Carangidae (jacks & trevallies)				
Carangidae (large, unspecified)	Jacks	35	105	3.00
Caranx lugubris	Black jack	61	183	3.00
Caranx melampygus	Bluefin trevally	6	19	3.00
Seriola dumerili	Greater amberjack	4	12	3.00
Selar crumenopthalmus	Bigeye scad	13	40	3.00
Elagatis bipinnulata	Rainbow runner	16	44	2.74
Coryphaenidae (mahimahi/dolphinfis	h)			
Coryphaena hippurus, C. equiselis	Mahimahi	3,056	3,966	1.30
Holocentridae (squirrel & soldierfishe	s)			
Myripristis amaena	Brick soldierfish	< 1	1	2.98
Sargocentron spiniferum	Saber squirrelfish	4	13	3.00
Sargocentron spp., Neoniphon spp.	Squirrelfishes	90	272	3.03
Kyphosidae (sea chubs)				
Kyphosus spp. (various)	Rudderfishes	20	59	3.00

Table A-8 American Samoa July 2014 Estimated Commercial Landings

Group				
Subgroup			Estimated	Price/
Scientific Name	Common/local name	Lbs Sold	Value	Lb
FISHES:	-	_		-
Other fishes (continued)				
Labridae (wrasses)				
Labridae (unspecified)	Wrasses	43	130	3.00
Lethrinidae (emperors)				
Gnathodentex aureolineatus	Yellowspot emperor	10	30	3.00
Gymnocranius grandoculis	Blue-lined bream	15	46	3.00
Lethrinidae (unspecified)	Emperors	332	995	3.00
Lethrinus elongatus	Longnose emperor	13	39	3.00
Lethrinus erythracanthus	Orangespot emperor	12	37	3.00
Monotaxis grandoculis	Bigeye bream	17	50	3.00
	2 3			
Lutjanidae (snappers) Aphareus furca	Brown jobfish	667	2,001	3.00
Aphareus jurca Aphareus rutilans	Yelloweye opakapaka (lehi,	007	2,001	3.00
Aphareus ruitans	silverjaw jobfish)	217	650	3.00
Aprion virescens	Gray jobfish	373	1,120	3.00
Caesio caerulaurea	Gold banded fusilier	1	3	3.00
Etelis carbunculus	Ruby snapper (ehu)	142	426	3.00
Etelis coruscans	Longtail snapper (onaga)	185	556	3.00
Lutjanidae (unspecified)	Deep water snappers	1,318	3,953	3.00
Lutjanus bohar	Twinspot/red snapper	15	46	3.00
·	Yellow margined snapper	1	4	3.00
Lutjanus fulvus Lutjanus gibbus	Humpback snapper	524	1,572	3.00
Lutjanus giobus Lutjanus kasmira	Blue-lined snapper	238	713	3.00
Lutjanus monostigma	Onespot snapper	<0	1	3.06
Paracaesio stonei	Stone's snapper	19	58	3.00
Pristipomoides filamentosus	Pink snapper (opakapaka)	312	936	3.00
Pristipomoides zonatus	Flower snapper (gindai)	18	55	3.00
_	riower shapper (Shidar)	10		5.00
Mugilidae (mullets)	N. 11 .	-	1.6	2.00
Mugilidae (unspecified)	Mullet	5	16	3.00
Mullidae (goatfishes)				
Mullidae (unspecified)	Goatfishes	15	45	3.00
Mulloidichthys flavolineatus	Yellowstripe goatfish	5	16	3.00
Polynemidae (threadfins)				
Polydactylus sexfilis	Threadfin	2	6	3.00
Priacanthidae (glasseyes)				
Priacanthus blochii	Bloch's bigeye	1	3	3.26
Scaridae (parrotfishes)	Bloch's orgere	1	J	3.20
Calotomus carolinus	Stareye parrotfish	66	199	3.00
Chlorurus microrhinos	Steephead parrotfish	612	1,869	3.05
Scaridae (unspecified)	Parrotfishes	1,531	4,646	3.03
Scarus dimidiatus	Yellowbarred parrotfish	2	5	2.99
Scarus frenatus	Bridled parrotfish	2	5	2.99
	1 -			
Serranidae (groupers) Cephalopholis argus	Danagak graupar	26	79	3.00
Cepnatophotis argus Epinephelus fasciatus	Peacock grouper Blacktip grouper	1	2	3.00
Epinephelus melanostigma	One-blotch grouper	28	85	3.00
Dpinephens mennosugmu	One ofoten grouper	20	0.5	5.00

Section A: American Samoa

A.36

Table A-8 American Samoa July 2014 Estimated Commercial Landings

GI	oup
	Sub

Subgroup Scientific Name	Common/local name	Lbs Sold	Estimated Value	Price/ Lb
FISHES:	-			
Other fishes (continued)				
Serranidae (continued)				
Epinephelus timorensis	Yellowspot grouper	1	3	2.99
Serranidae (unspecified)	Groupers	68	205	3.02
Serranidae (unspecified)	Inshore groupers	23	69	3.00
Variola albimarginata	White-edged lyretail	28	84	3.00
Variola louti	Yellow-edged lyretail	4	13	3.00
,	Tono wought Tyroum	·	10	2.00
Siganidae (rabbitfishes)	D 111001	-	1.6	2 11
Siganidae (unspecified)	Rabbitfishes	5	16	3.11
Sphyraenidae (barracudas)				
Sphyraena forsteri	Bigeye barracuda	36	72	2.00
Sphyraena spp.	Small barracudas	60	180	3.00
Unspecified Fish Groups Carangidae, Lutjanidae, Lethrinidae & Serranidae	Bottomfishes (unspecified)	1,762	5,486	3.11
Various (many) families	Reef fishes (unspecified)	6,917	20,299	2.93
INVERTEBRATES: Crustaceans: Lobsters Panulirus penicillatus	Spiny lobster	61	223	3.63
Mollusks				
Octopus spp.	Octopus	11	33	3.00
	Total	895,008	\$988,344	\$1.10

Table A-9
American Samoa August 2014 Estimated Commercial Landings

Group				
Subgroup		Lbs	Estimated	Price/
Scientific Name	Common/local name	Sold	Value	Lb
FISHES:				
Scombridae				
Tunas				
Katsuwonus pelamis	Skipjack tuna	51,560	34,471	0.67
Thunnus alalunga	Albacore tuna	428,870	574,686	1.34
Thunnus albacares	Yellowfin tuna	62,975	48,130	0.76
Thunnus obesus	Bigeye tuna	17,770	11,728	0.66
Other scombrids				
Acanthocybium solandri	Wahoo	19,073	9,930	0.52
Billfishes				
Xiphiidae				
Xiphias gladius	Swordfish	358	1,253	3.50
Other fishes				
Acanthuridae (Tangs, Surgeons, U	Inicornfishes)			
Acanthurus lineatus	Blue-banded surgeonfish	1,567	4,592	2.93
Acanthurus nigrofuscus	Brown surgeonfish	100	299	3.00
Acanthurus xanthopterus	Yellowfin surgeonfish	11	11	0.99
Ctenochaetus striatus	Striped bristletooth	542	1,661	3.07
Naso lituratus	Orangespine unicornfish	102	307	3.00
Naso spp.	Unicornfishes (unspecified)	323	970	3.00
Carangidae (jacks & trevallies)	, ,			
Carangidae (small to medium, unspecified)	Trevallies	21	68	3.22
Caranx lugubris	Black jack	19	59	3.16
Caranx sexfasciatus	Bigeye trevally	14	43	3.00
Seriola dumerili	Greater amberjack	64	206	3.24
Coryphaenidae (mahimahi/dolphii	nfish)			
Coryphaena hippurus, C. equiselis	Mahimahi	3,269	5,759	1.76
Holocentridae (squirrel & soldierf	ishes)			
Sargocentron spiniferum	Saber squirrelfish	13	43	3.29
Sargocentron spp., Neoniphon spp.	Squirrelfishes	119	356	3.00
Kyphosidae (sea chubs)				
Kyphosus spp. (various)	Rudderfishes	21	64	3.00
Lethrinidae (emperors)				
Lethrinidae (unspecified)	Emperors	1,023	2,558	2.50
Lethrinus amboinensis	Ambon emperor	146	437	3.00
Lethrinus erythracanthus	Orangespot emperor	96	287	3.00
Lethrinus lentjan	Redgill emperor	< 1	1	3.05
Monotaxis grandoculis	Bigeye bream	8	25	3.00
Lutjanidae (snappers)				
Aphareus furca	Brown jobfish	5	16	3.01
Aphareus rutilans	Yelloweye opakapaka (lehi, silverjaw jobfish)	476	1,429	3.00

A.38

Table A-9
American Samoa August 2014 Estimated Commercial Landings

Subgroup		Lbs	Estimated	Price
Scientific Name	Common/local name	Sold	Value	Ll
Other fishes Lutjanidae (continued	1)			
Aprion virescens	Gray jobfish	1,034	3,103	3.00
Ĉaesio caerulaurea	Gold banded fusilier	2	7	3.00
Etelis carbunculus	Ruby snapper (ehu)	43	170	3.95
Etelis coruscans	Longtail snapper (onaga)	237	712	3.00
Lutjanus gibbus	Humpback snapper	1,525	4,574	3.00
Lutjanus kasmira	Blue-lined snapper	621	1,864	3.00
Lutjanus monostigma	Onespot snapper	36	109	3.00
Paracaesio kusakarii	Kusakar's snapper	1	3	2.99
Pristipomoides auricilla	Goldflag jobfish	3	10	3.00
Pristipomoides zonatus	Flower snapper (gindai)	26	103	3.95
Mugilidae (mullets)				
Mugilidae (unspecified)	Mullet	95	286	3.00
Mullidae (goatfishes)				
Mullidae (unspecified)	Goatfishes	1	4	3.15
Mulloidichthys flavolineatus	Yellowstripe goatfish	1	3	2.99
	i ellowstripe goatrisii	1	3	2.95
Scaridae (parrotfishes)	D	2.550	7.725	2.00
Scaridae (unspecified)	Parrotfishes	2,578	7,735	3.00
Serranidae (groupers)				
Cephalopholis argus	Peacock grouper	< 1	1	2.91
Cephalopholis igarashiensis	Yellow-banded grouper	4	13	3.00
Cephalopholis sonnerati	Tomato grouper	7	22	3.00
Epinephelus maculatus	Spotted grouper	115	345	3.00
Epinephelus timorensis	Yellowspot grouper	1	5	4.24
Serranidae (unspecified)	Groupers	84	186	2.21
Serranidae (unspecified)	Inshore groupers	18	64	3.58
Variola albimarginata	White-edged lyretail	11	32	3.00
Variola louti	Yellow-edged lyretail	3	10	3.00
Siganidae (rabbitfishes)				
Siganidae (unspecified)	Rabbitfishes	1	3	2.99
Sphyraenidae (barracudas)				
Sphyraena spp.	Barracudas	10	26	2.50
Sphyraena spp.	Small barracudas	380	1,221	3.21
Unspecified Fish Groups	Sman carracticus	200	1,221	3.21
Carangidae, Lutjanidae,				
Lethrinidae & Serranidae	Bottomfishes (unspecified)	1,762	5,486	3.11
Various (many) families	Reef fishes (unspecified)	6,917	20,299	2.93
VERTEBRATES:	riour nones (unspoundu)	0,517	,	,,
Crustaceans: Lobsters				
	Spiny lobster	84	320	3.80
Panulirus penicillatus	Spiny louster	04	320	3.80
Mollusks				
Octopus spp.	Octopus	6	18	3.00
Tridacna derasa	Giant clam	40	320	8.00

Table A-9
American Samoa August 2014 Estimated Commercial Landings

American Samoa August 2014 Estimated Commercial Landings				
Group				
Subgroup Scientific Name	Common/local name	Lbs Sold	Estimated Value	Price/ Lb
	Table A-10			
Amorican Samoa Sar	t able A-10 otember 2014 Estimated (Commore	ial Landings	,
Group	dember 2014 Estimateu (Commete	iai Lanuings	
Subgroup		Lbs	Estimated	Price/
Scientific Name	Common/local name	Sold	Value	Lb
FISHES:				
Scombridae				
Tunas				
Katsuwonus pelamis	Skipjack tuna	50,597	47,186	0.93
Thunnus alalunga	Albacore tuna	418,575	535,776	1.28
Thunnus albacares	Yellowfin tuna	62,141	59,000	0.95
Thunnus obesus	Bigeye tuna	31,384	20,064	0.64
Other scombrids		10.10		
Acanthocybium solandri	Wahoo	19,102	9,510	0.50
Gymnosarda unicolor	Dogtooth tuna	16	27	1.68
Billfishes				
Istiophoridae				
Istiophorus platypterus	Sailfish	4	14	3.50
Other fishes				
Acanthuridae (Tangs, Surgeons, Un	icornfishes)			
Acanthurus guttatus	Whitespotted surgeonfish	4	13	3.0
Acanthurus lineatus	Blue-banded surgeonfish	1,802	5,350	2.9
Acanthurus nigrofuscus	Brown surgeonfish	117	351	3.0
Acanthurus xanthopterus	Yellowfin surgeonfish	5	16	3.0
Ctenochaetus striatus	Striped bristletooth	825	2,474	3.0
Naso lituratus	Orangespine unicornfish	23	70	3.0
Naso spp.	Unicornfishes (unspecified)	659	1,946	2.9
Carangidae (jacks & trevallies)				
Caranx ignobilis	Giant trevally	24	118	5.0
Caranx lugubris	Black jack	11	34	3.0
Caranx sexfasciatus	Bigeye trevally	23	68	3.0
Elagatis bipinnulata	Rainbow runner	19	93	5.0
Coryphaenidae (mahimahi/dolphinf	ish)			
Coryphaena hippurus, C.		2 215	11 102	2.2
equiselis	Mahimahi	3,315	11,103	3.3
Holocentridae (squirrel & soldierfis	hes)			
Myripristis berndti	Bigscale soldierfish	5	14	3.0
Sargocentron spiniferum	Saber squirrelfish	3	10	3.0
Sargocentron spp., Neoniphon spp		118	353	3.0
Kyphosidae (sea chubs)	-			
Kyphosus spp. (various)	Rudderfishes	8	24	3.0
Lethrinidae (emperors)		Ü	2.	5.0
Control (emperors)	37.11	4.5	100	2.0

Yellowspot emperor

Ambon emperor

Longnose emperor

Gnathodentex aureolineatus

Lethrinus amboinensis

Lethrinus elongatus

Section A: American Samoa

123

92 3 3.00

3.00

3.01

41

31

1

A.40

Table A-9
American Samoa August 2014 Estimated Commercial Landings

Group

Subgroup Scientific Name	Common/local name	Lbs Sold	Estimated Value	Price/ Lb
Lethrinus erythracanthus	Orangespot emperor	363	3,271	9.00
Lethrinus lentjan	Redgill emperor	89	266	3.00
Monotaxis grandoculis	Bigeye bream	11	34	3.00
Other fishes (continued)				
Lutjanidae (snappers)				
Aphareus furca	Brown jobfish	22	65	3.00
Aphareus rutilans	Yelloweye opakapaka (lehi, silverjaw jobfish)	31	93	3.00
Aprion virescens	Gray jobfish	380	1,139	3.00
Caesio caerulaurea	Gold banded fusilier	3	9	3.00
Etelis coruscans	Longtail snapper (onaga)	322	965	3.00
Lutjanus bohar	Twinspot/red snapper	64	193	3.00
Lutjanus gibbus	Humpback snapper	195	585	3.00
Lutjanus kasmira	Blue-lined snapper	197	591	3.00
Lutjanus monostigma	Onespot snapper	2	5	3.01
Paracaesio stonei	Stone's snapper	6	17	3.00
Pristipomoides auricilla	Goldflag jobfish	10	30	3.00
Pristipomoides zonatus	Flower snapper (gindai)	113	340	3.00
Scaridae (parrotfishes)				
Scaridae (unspecified)	Parrotfishes	1,071	3,214	3.00
Serranidae (groupers)				
Anyperodon leucogrammicus	Slender grouper	4	12	3.00
Cephalopholis argus	Peacock grouper	23	70	3.00
Epinephelus maculatus	Spotted grouper	74	221	3.00
Epinephelus morrhua	Striped grouper	1	3	2.99
Serranidae (unspecified)	Groupers	18	54	3.00
Serranidae (unspecified)	Inshore groupers	34	102	3.00
Variola albimarginata	White-edged lyretail	5	16	3.00
Sphyraenidae (barracudas)				
Sphyraena barracuda	Great barracuda	12	62	5.00
Sphyraena forsteri	Bigeye barracuda	55	210	3.79
Sphyraena spp.	Barracudas	21	52	2.50
Terapontidae (terapons)				
Terapon jarbua	Terapon perch	13	40	3.00
Unspecified Fish Groups				
Various (many) families	Reef fishes (unspecified)	6,917	20,299	2.93
INVERTEBRATES:				
Crustaceans: Lobsters				
Panulirus penicillatus	Spiny lobster	60	237	3.97
Mollusks	1 7			
Octopus spp.	Octopus	10	30	3.00

Table A-9 American Samoa August 2014 Estimated Commercial Landings

Subgroup Subgroup		Lbs	Estimated	Price/
Scientific Name	Common/local name	Sold	Value	Lb
		-		
	Total	592,552	\$707,229	\$1.19

A.42

Table A-11
American Samoa October 2014 Estimated Commercial Landings

Group				
Subgroup		Lbs	Estimated	Price/
Scientific Name	Common/local name	Sold	Value	Lb
FISHES:				
Scombridae				
Tunas				
Katsuwonus pelamis	Skipjack tuna	11,678	10,759	0.92
Thunnus alalunga	Albacore tuna	245,471	294,727	1.20
Thunnus albacares	Yellowfin tuna	12,102	6,658	0.55
Thunnus obesus	Bigeye tuna	15,430	5,400	0.35
Other scombrids				
Acanthocybium solandri	Wahoo	14,130	3,301	0.23
Gymnosarda unicolor	Dogtooth tuna	201	599	2.99
Billfishes				
Istiophoridae				
Makaira mazara	Blue marlin	101	130	1.29
Xiphiidae				
Xiphias gladius	Swordfish	39	83	2.13
Other fishes	2	• •	-	
Acanthuridae (Tangs, Surgeons, U	Inicornfiches)			
Acanthurus lineatus	Blue-banded surgeonfish	2,138	6,415	3.00
Acanthurus nineatus Acanthurus nigrofuscus	Brown surgeonfish	2,136	45	3.00
Ctenochaetus striatus	Striped bristletooth	430	1,284	2.99
Naso caesius	Gray unicornfish	< 1	1,204	2.94
Naso lituratus	Orangespine unicornfish	8	23	3.00
Naso spp.	Unicornfishes (unspecified)	284	851	3.00
Carangidae (jacks & trevallies)	(unspective)	-0.	001	2.00
Elagatis bipinnulata	Rainbow runner	18	49	2.75
Coryphaenidae (mahimahi/dolphi		10	7)	2.73
Coryphaena hippurus, C.				
equiselis	Mahimahi	1,595	4,706	2.95
Gempylidae (snake mackerels)				
Ruvettus pretiosus	Oilfish	2	6	3.00
Holocentridae (squirrel & soldierf		-	O	5.00
· -	Bigscale soldierfish	2	7	3.00
Myripristis berndti Sargocentron spiniferum	Saber squirrelfish	2	6	3.00
Sargocentron spiniperum Sargocentron spp., Neoniphon	Squirrelfishes	100	299	3.00
Kyphosidae (sea chubs)	Squiremsnes	100	2,,,	3.00
Kyphosus spp. (various)	Rudderfishes	3	10	3.00
	Rudderrishes	3	10	3.00
Lethrinidae (emperors)	** 11	1.50	160	2.00
Gnathodentex aureolineatus	Yellowspot emperor	153	460	3.00
Lethrinidae (unspecified)	Emperors	65 65	169	2.60
Lethrinus amboinensis	Ambon emperor	65	194 546	3.00
Lethrinus erythracanthus	Orangespot emperor	182 12	546 37	3.00
Lethrinus lentjan	Redgill emperor	2		3.00
Monotaxis grandoculis	Bigeye bream	2	5	3.00

A.43

Table A-11
American Samoa October 2014 Estimated Commercial Landings

roup				
Subgroup Scientific Name	Common/local name	Lbs Sold	Estimated Value	Price/ Lb
Other fishes (continued)				
Lutjanidae (snappers)				
Aphareus furca	Brown jobfish	27	81	3.00
Aphareus rutilans	Yelloweye opakapaka (lehi, silverjaw jobfish)	211	634	3.00
Aprion virescens	Gray jobfish	41	123	3.00
Etelis coruscans	Longtail snapper (onaga)	108	325	3.00
Lutjanus bohar	Twinspot/red snapper	23	70	3.00
Lutjanus gibbus	Humpback snapper	292	876	3.00
Lutjanus kasmira	Blue-lined snapper	107	320	3.00
Lutjanus monostigma	Onespot snapper	1	4	3.01
Macolor niger	Black snapper	1	4	2.99
Pristipomoides auricilla	Goldflag jobfish	3	10	3.00
Pristipomoides filamentosus	Pink snapper (opakapaka)	56	196	3.50
Pristipomoides zonatus	Flower snapper (gindai)	4	11	3.00
Scaridae (parrotfishes)				
Scaridae (unspecified)	Parrotfishes	886	2,658	3.00
Serranidae (groupers)				
Anyperodon leucogrammicus	Slender grouper	10	30	3.00
Cephalopholis sonnerati	Tomato grouper	1	3	3.01
Epinephelus fasciatus	Blacktip grouper	4	11	3.00
Epinephelus melanostigma	One-blotch grouper	< 1	1	2.96
Serranidae (unspecified)	Groupers	15	45	3.00
Serranidae (unspecified)	Inshore groupers	135	404	3.00
Variola albimarginata	White-edged lyretail	4	13	3.00
Variola louti	Yellow-edged lyretail	6	18	3.00
Sphyraenidae (barracudas)	5 3			
Sphyraena forsteri	Bigeye barracuda	23	69	3.00
Unspecified Fish Groups	9-7			
Carangidae, Lutjanidae, Lethrinidae				
& Serranidae	Bottomfishes (unspecified)	1,762	5,486	3.11
Various (many) families	Reef fishes (unspecified)	6,917	20,299	2.93
NVERTEBRATES:				
Crustaceans: Lobsters				
Panulirus penicillatus	Spiny lobster	122	396	3.25
Mollusks	1 2	-		
Octopus spp.	Octopus	47	140	3.00
	Total	307,132	\$345,591	\$1.13

A.44

Table A-12 American Samoa November 2014 Estimated Commercial Landings

Subgroup Scientific Name	Common/local name	Lbs Sold	Estimated Value	Price/ Lb
TISHES:				
Scombridae				
Tunas				
Katsuwonus pelamis	Skipjack tuna	21,548	13,936	0.6
Thunnus alalunga	Albacore tuna	344,621	441,269	1.2
Thunnus albacares	Yellowfin tuna	26,402	19,118	0.7
Thunnus obesus	Bigeye tuna	22,717	13,403	0.5
Other scombrids				
Acanthocybium solandri	Wahoo	25,385	13,177	0.5
Gymnosarda unicolor	Dogtooth tuna	20	58	2.8
Other fishes				
Acanthuridae (Tangs, Surgeons, U	nicornfishes)			
Acanthurus lineatus	Blue-banded surgeonfish	2,787	8,360	3.0
Acanthurus nigrofuscus	Brown surgeonfish	127	380	3.0
Acanthurus xanthopterus	Yellowfin surgeonfish	5	16	3.0
Ctenochaetus striatus	Striped bristletooth	959	2,878	3.0
Naso lituratus	Orangespine unicornfish	5	14	3.0
Naso spp.	Unicornfishes (unspecified)	548	1,646	3.0
Balistidae (triggerfishes)				
Balistidae (unspecified)	Triggerfishes	2	5	3.0
Carangidae (jacks & trevallies)				
Seriola dumerili	Greater amberjack	8	25	3.0
Elagatis bipinnulata	Rainbow runner	4	10	2.7
Chaetodontidae (butterflyfishes)				
Chaetodontidae (unspecified)	Butterflyfishes	< 1	1	3.0
Coryphaenidae (mahimahi/dolphin	ifish)			
Coryphaena hippurus, C.	Mahimahi	1,043	1,479	1.4
equiselis		1,0 .0	1,.,,	
Diodontidae (porcupinefishes)				
Diodon holocanthus	Spiny pufferfish	27	81	3.0
Holocentridae (squirrel & soldierfi	shes)			
Sargocentron spiniferum	Saber squirrelfish	14	42	3.0
Sargocentron, Neoniphon spp.	Squirrelfishes	370	1,109	3.0
Kyphosidae (sea chubs)				
Kyphosus spp. (various)	Rudderfishes	26	77	3.0
Lethrinidae (emperors)				
Lethrinidae (unspecified)	Emperors	311	934	3.0
Lethrinus erythracanthus	Orangespot emperor	2	5	3.0
Lethrinus lentjan	Redgill emperor	166	498	3.0
Monotaxis grandoculis	Bigeye bream	11	32	3.0

Table A-12 American Samoa November 2014 Estimated Commercial Landings

Subgroup Scientific Name	Common/local name	Lbs Sold	Estimated Value	Price/ Lb
Other fishes (continued)				
Lutjanidae (snappers)				
Aphareus rutilans	Yelloweye opakapaka (lehi, silverjaw jobfish)	392	1,177	3.0
Caesio caerulaurea	Gold banded fusilier	3	8	3.0
Etelis carbunculus	Ruby snapper (ehu)	248	744	3.0
Etelis coruscans	Longtail snapper (onaga)	229	688	3.0
Lutjanus bohar	Twinspot/red snapper	23	69	3.0
Lutjanus fulvus	Yellow margined snapper	2	5	3.0
Lutjanus gibbus	Humpback snapper	288	864	3.0
Lutjanus kasmira	Blue-lined snapper	110	329	3.0
Lutjanus monostigma	Onespot snapper	4	12	3.0
Macolor niger	Black snapper	3	9	3.0
Paracaesio stonei	Stone's snapper	3	10	3.0
Pristipomoides auricilla	Goldflag jobfish	12	35	3.0
Pristipomoides filamentosus Mugilidae (mullets)	Pink snapper (opakapaka)	61	168	2.7
Liza vaigiensis	Diamond scale mullet	34	102	3.0
Priacanthidae (glasseyes)				
Priacanthus blochii	Bloch's bigeye	8	24	3.0
Scaridae (parrotfishes)				
Scaridae (unspecified)	Parrotfishes	1,564	4,692	3.0
Serranidae (groupers)	1 directiones	1,501	1,002	5.0
Cephalopholis argus	Peacock grouper	4	12	3.0
Serranidae (unspecified)	Groupers	50	149	3.0
Serranidae (unspecified)	Inshore groupers	162	485	3.0
Variola albimarginata	White-edged lyretail	86	259	3.0
Variola dibimarginala Variola louti	Yellow-edged lyretail	3	9	3.0
Siganidae (rabbitfishes)	renow-edged tyretan	3	9	3.0
0 ,	D 11:/// 1	•	2	2.0
Siganidae (unspecified)	Rabbitfishes	1	3	3.0
Sphyraenidae (barracudas)				
Sphyraena forsteri	Bigeye barracuda	12	30	2.5
Sphyraena spp.	Barracudas	242	605	2.5
Unspecified Fish Groups				
Carangidae, Lutjanidae, Lethrinidae & Serranidae	Bottomfishes (unspecified)	1,762	5,486	3.1
Various (many) families	Reef fishes (unspecified)	6,917	20,299	2.9
VERTEBRATES:				
Crustaceans: Lobsters				
Panulirus penicillatus	Spiny lobster	199	663	3.3
Mollusks	1 3		,,,,	2.2
Octopus spp.	Octopus	172	516	3.0

Table A-13 American Samoa December 2014 Estimated Commercial Landings

Subgroup Scientific Name	Common/loos1	Lbs	Estimated	Price/
Scientific Name	Common/local name	Sold	Value	Lb
FISHES:				
Scombridae				
Tunas		20.100	22 (50	
Katsuwonus pelamis	Skipjack tuna	30,188	33,670	1.12
Thunnus alalunga	Albacore tuna	251,566	322,004	1.28
Thunnus albacares	Yellowfin tuna	29,274	22,291	0.76
Thunnus obesus	Bigeye tuna	15,865	9,360	0.59
Tribe Thunnini (unspecified)	Tunas	91	269	2.95
Other scombrids				
Acanthocybium solandri	Wahoo	15,293	8,245	0.54
Gymnosarda unicolor	Dogtooth tuna	27	79	2.89
Billfishes				
Xiphiidae				
Xiphias gladius	Swordfish	200	200	1.00
Other fishes				
Acanthuridae (Tangs, Surgeons, U	Jnicornfishes)			
Acanthurus lineatus	Blue-banded surgeonfish	1,531	4,597	3.00
Acanthurus nigrofuscus	Brown surgeonfish	37	111	3.00
Ctenochaetus striatus	Striped bristletooth	456	1,369	3.00
Naso lituratus	Orangespine unicornfish	12	37	3.00
Naso spp.	Unicornfishes (unspecified)	336	1,009	3.00
Carangidae (jacks & trevallies)				
Caranx lugubris	Black jack	1	3	3.00
Caranx sexfasciatus	Bigeye trevally	78	235	3.00
Seriola dumerili	Greater amberjack	19	56	3.00
Selar crumenopthalmus	Bigeye scad	1	2	3.00
Elagatis bipinnulata	Rainbow runner	26	78	2.97
Cichlidae (cichlids)				
Oreochromis sp.	Tilapia	40	73	1.82
Coryphaenidae (mahimahi/dolphinf	ish)			
Coryphaena hippurus, C. equiseli		700	525	0.75
Holocentridae (squirrel & soldierfish				
Sargocentron spp., Neoniphon sp		235	704	3.00
Kyphosidae (sea chubs)	1		,	
Kyphosus spp. (various)	Rudderfishes	3	9	3.00
Lampridae (moonfishes, opah)	Ruddernsnes	3	,	3.00
	Moonfish	30	30	1.00
Lampris guttatus	MOONIISN	30	30	1.00
Lethrinidae (emperors)	_	• • •		• • •
Lethrinidae (unspecified)	Emperors	268	803	3.00
Lutjanidae (snappers)				
Aphareus rutilans	Yelloweye opakapaka (lehi,	29	87	3.00
	silverjaw jobfish)	43	07	3.00
Aprion virescens	Gray jobfish	74	223	3.00
Etelis coruscans	Longtail snapper (onaga)	567	2,266	4.00

Section A: American Samoa

A.47

Table A-13 American Samoa December 2014 Estimated Commercial Landings

Group				
Subgroup		Lbs	Estimated	Price/
Scientific Name	Common/local name	Sold	Value	Lb
Other fishes (continued)				
Lutjanidae (snappers)				
Lutjanus gibbus	Humpback snapper	54	163	3.00
Lutjanus kasmira	Blue-lined snapper	10	30	3.00
Mugilidae (mullets)				
Liza vaigiensis	Diamond scale mullet	34	102	3.00
Scaridae (parrotfishes)				
Scaridae (unspecified)	Parrotfishes	926	2,777	3.00
Serranidae (groupers)				
Serranidae (unspecified)	Inshore groupers	120	360	3.00
Sphyraenidae (barracudas)				
Sphyraena forsteri	Bigeye barracuda	166	498	3.00
Sphyraena spp.	Barracudas	73	182	2.50
Unspecified Fish Groups				
Various (many) families	Reef fishes (unspecified)	6,917	20,299	2.93
INVERTEBRATES:				
Crustaceans: Lobsters				
Panulirus penicillatus	Spiny lobster	124	403	3.24
Mollusks	1 ,			
Octopus spp.	Octopus	9	26	3.00
	Total	349,158	\$414,961	\$1.19

The following are summary charts of the major species and species groups by month:

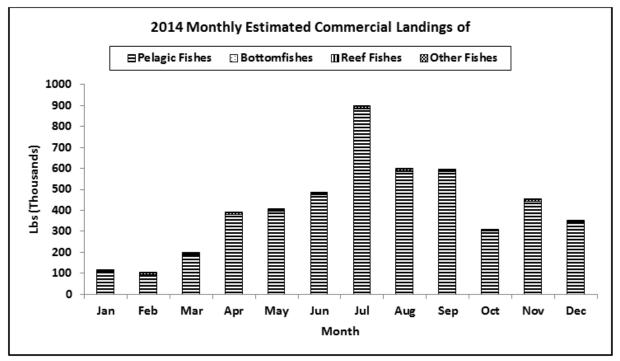


Figure A-1-1

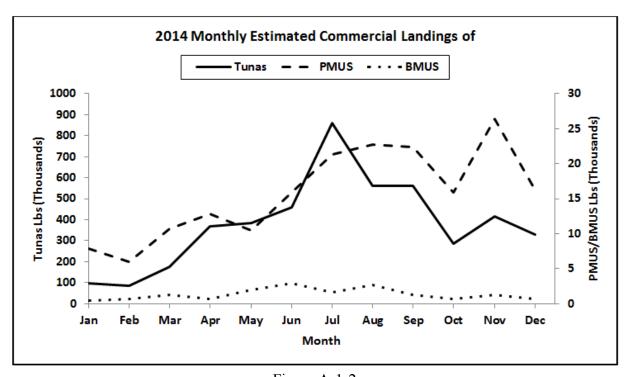


Figure A-1-2

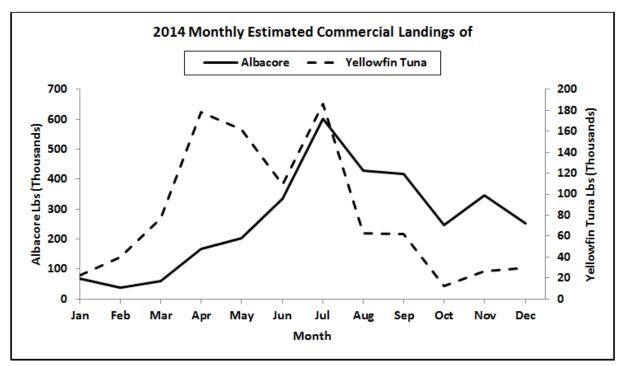


Figure A-1-3

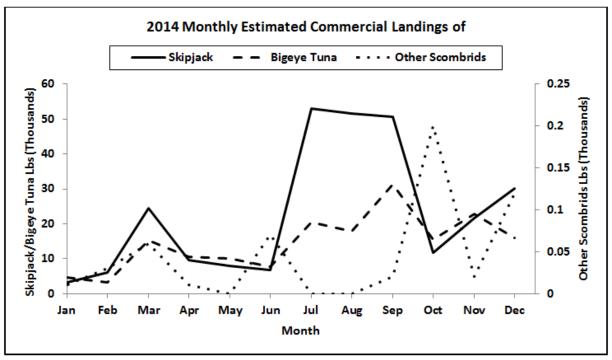


Figure A-1-4

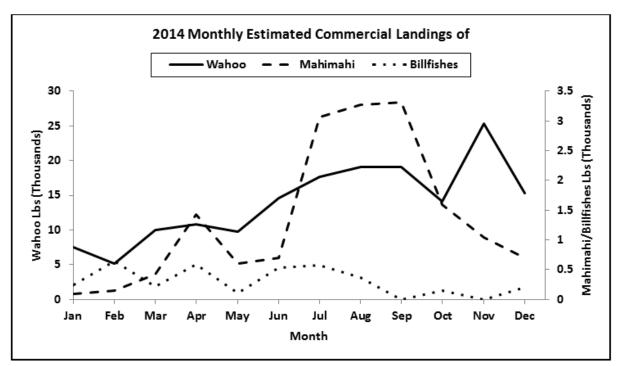


Figure A-1-5

The following are seasonality plots for the major species or species groups, showing the average weight landed during each month for all years combined:

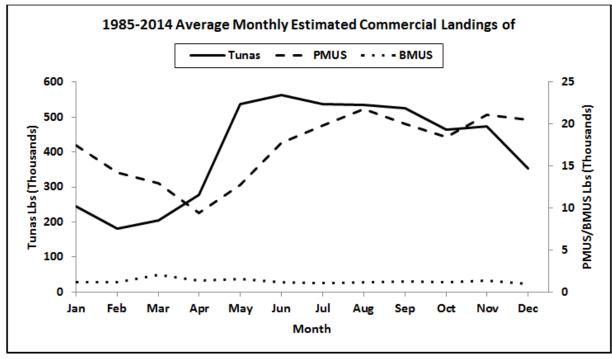


Figure A-2-1

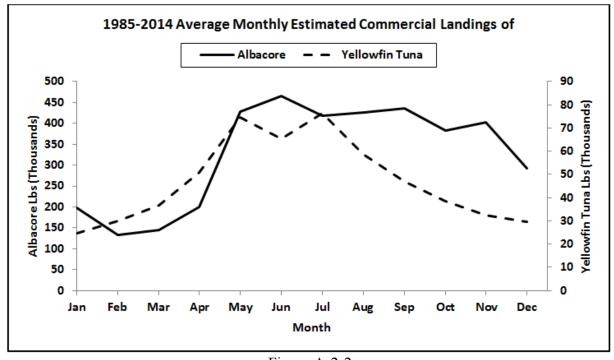


Figure A-2-2

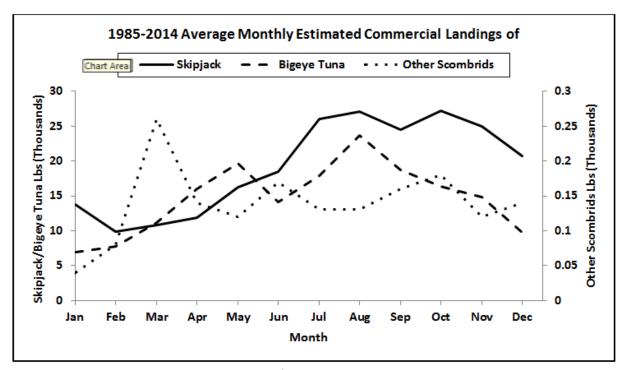


Figure A-2-3

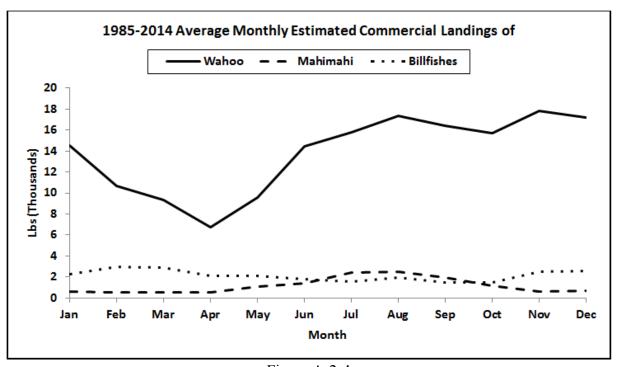


Figure A-2-4

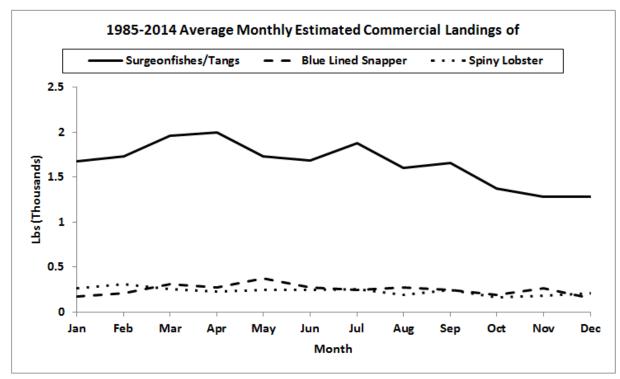


Figure A-2-5

The following graphs plot annual summary statistics to illustrate the variability among years:

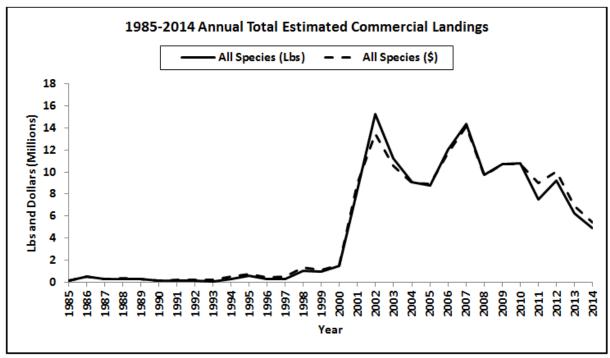


Figure A-3-1

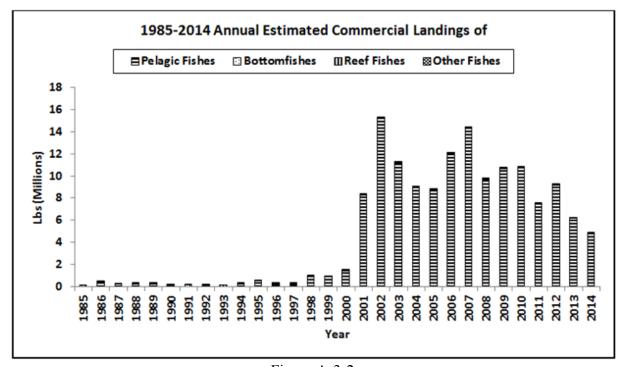


Figure A-3-2

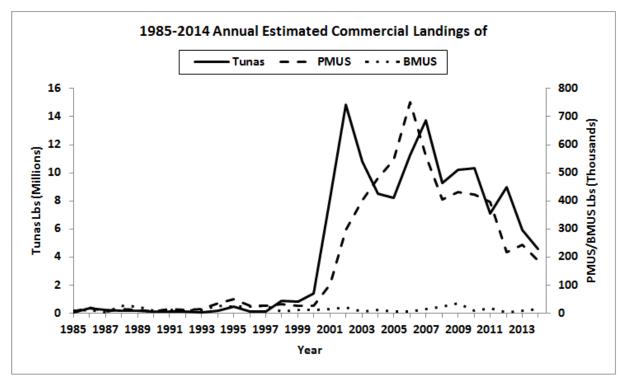


Figure A-3-3

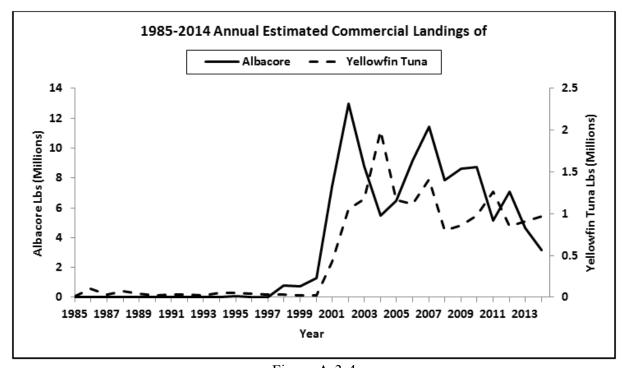


Figure A-3-4

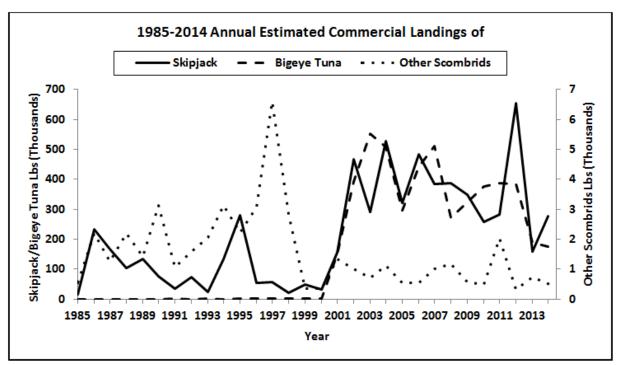


Figure A-3-5

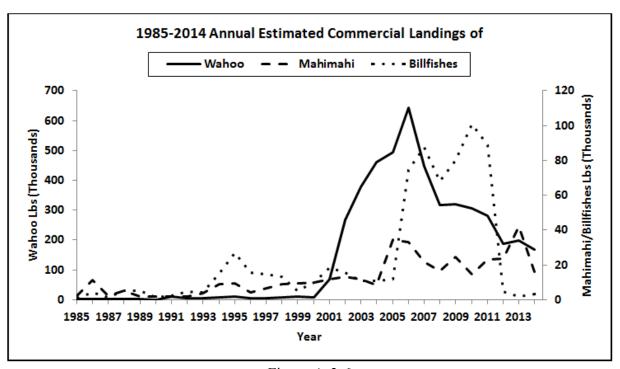


Figure A-3-6

The following graphs plot the monthly landings of some of the major commercially important species and document monthly fluctuations in landings over the time series:

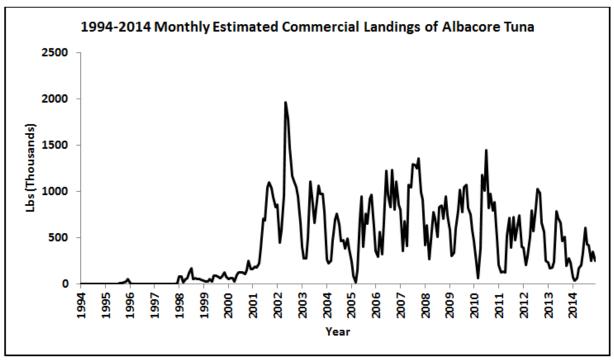


Figure A-4-1

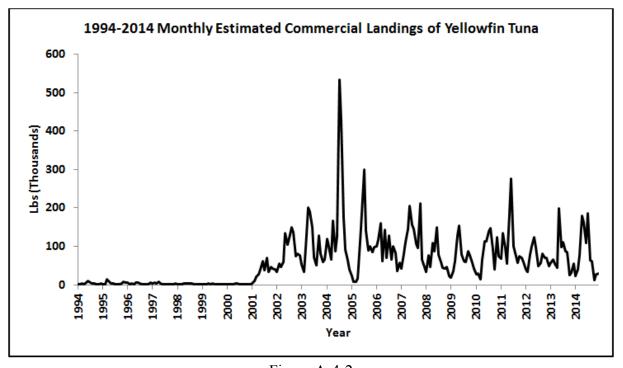


Figure A-4-2

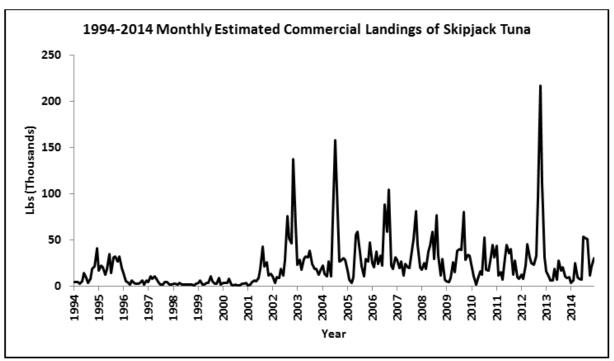


Figure A-4-3

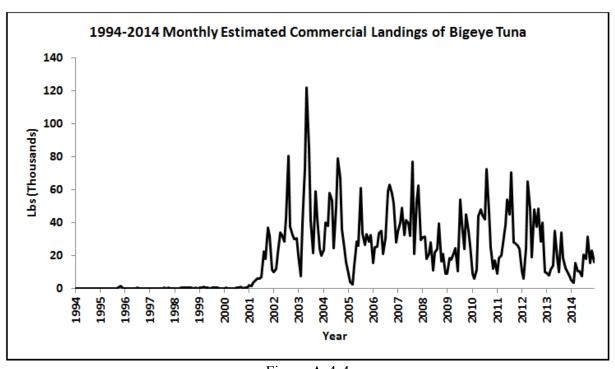


Figure A-4-4

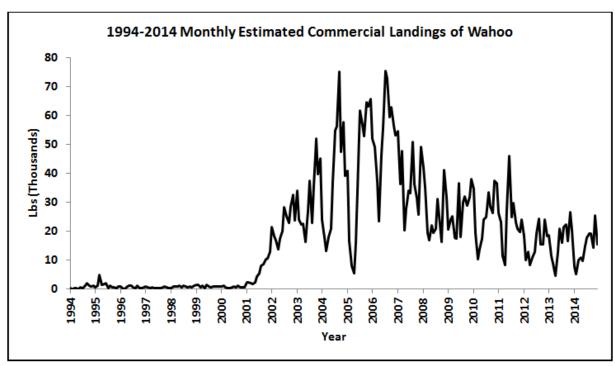


Figure A-4-5

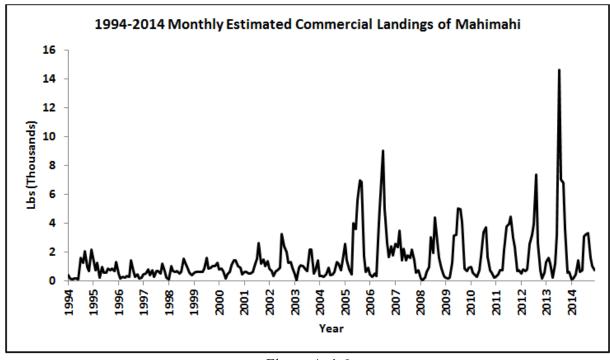


Figure A-4-6

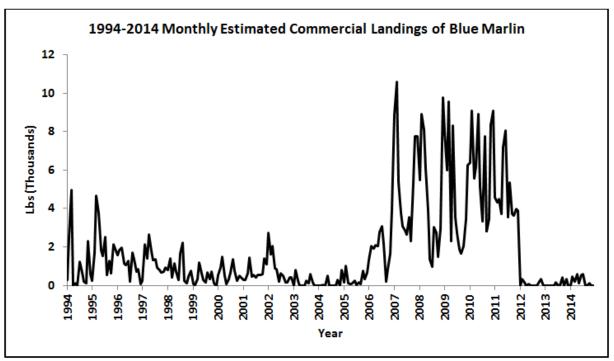


Figure A-4-7

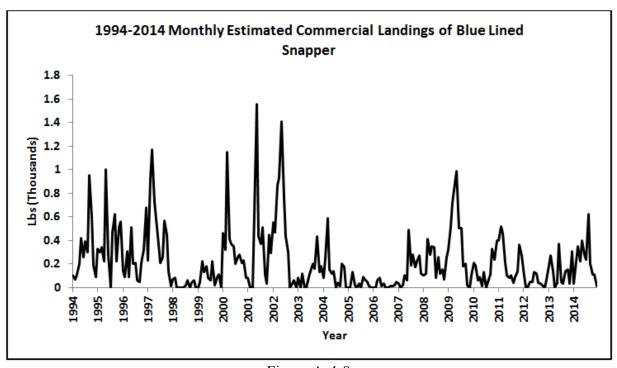


Figure A-4-8

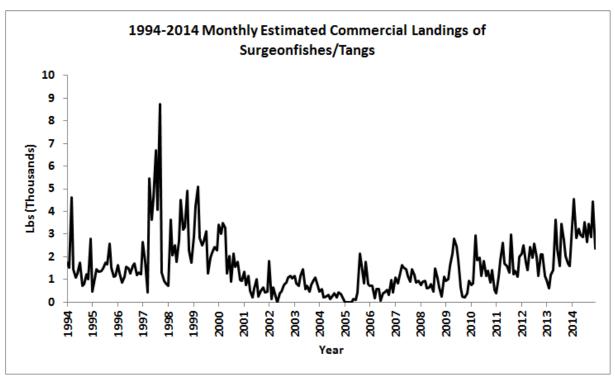


Figure A-4-9

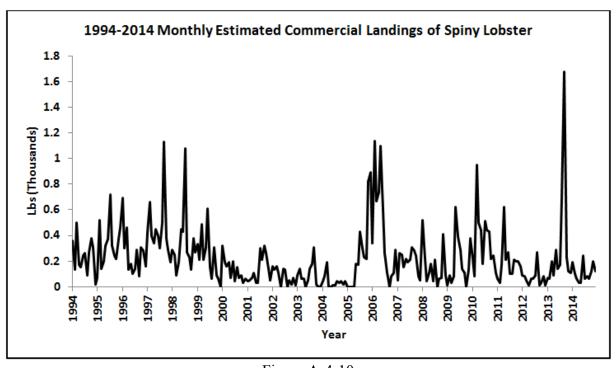


Figure A-4-10

COMMONWEALTH OF THE NORTHERN MARIANA ISLANDS 2014 FISHERY STATISTICS

Compiled by

Commonwealth of the Northern Mariana Islands,

Department of Lands and Natural Resources, Division of Fish and Wildlife

and the

Western Pacific Fisheries Information Network

B.iii

CONTENTS

	Page
Introduction	B.1
Data Collection	B.2
Data Processing	B.6
Data Reporting	B.6
Species Categories	B.7
Tables	B.12
Figures	B.35

B.iv

LIST OF CNMI 2014 SUMMARY TABLES

Table	S	Page
B-1	Annual Estimated Commercial Landings	B.12
B-2	January Estimated Commercial Landings	B.14
B-3	February Estimated Commercial Landings	B.16
B-4	March Estimated Commercial Landings	B.18
B-5	April Estimated Commercial Landings	B.20
B-6	May Estimated Commercial Landings	B.22
B-7	June Estimated Commercial Landings	B.24
B-8	July Estimated Commercial Landings	B.26
B-9	August Estimated Commercial Landings	B.28
B-10	September Estimated Commercial Landings	B.30
B-11	October Estimated Commercial Landings	B.31
B-12	November Estimated Commercial Landings	B.32
B-13	December Estimated Commercial Landings	B.34

B.v

LIST OF CNMI FIGURES

<u>Figures</u>		Page
2014 M	Ionthly Estimated Commercial Landings	
B-1-1	Pelagic Fishes, Bottomfishes, Reef Fishes, and Other Fishes	B.35
B-1-2	Tunas, PMUS, and BMUS	B.35
B-1-3	Skipjack, Yellowfin Tuna, and Other Scombrids	B.36
B-1-4	Mahimahi, Wahoo, and Billfishes	B.36
B-1-5	Bigeye Scad, Emperors, and Onaga	B.37
1981-20	014 Average Monthly Estimated Commercial Landings	
B-2-1	Tunas, PMUS, and BMUS	B.38
B-2-2	Skipjack, Yellowfin Tuna, and Other Scombrids	B.38
B-2-3	Mahimahi, Wahoo, and Billfishes	B.39
B-2-4	Bigeye Scad, Emperors, and Onaga	B.39
B-2-5	Parrotfishes, Spiny Lobster, and Rabbitfishes	B.40
1981-20	014 Annual Total Estimated Commercial Landings	
B-3-1	All Species (Pounds) and All Species (Dollars)	B.41
B-3-2	Pelagic Fishes, Bottomfishes, Reef Fishes, and Other Fishes	B.41
B-3-3	Tunas, PMUS, and BMUS	B.42
B-3-4	Skipjack, Yellowfin Tuna, and Other Scombrids	B.42
B-3-5	Wahoo, Mahimahi, and Billfishes	B.43
B-3-6	Bigeye Scad, Emperors, and Onaga	B.43
B-3-7	Parrotfishes, Spiny Lobster, and Rabbitfishes	B.44
1981-20	014 Monthly Estimated Commercial Landings	
B-4-1	Yellowfin Tuna	B.45
B-4-2	Skipjack Tuna	B.45
B-4-3	Dogtooth Tuna	B.46
B-4-4	Wahoo	B.46
B-4-5	Mahimahi	B.47
B-4-6	Bigeye Scad	B.47
B-4-7	Emperors	B.48
B-4-8	Onaga	B.48
B-4-9	Parrotfishes	B.49
B-4-10	Rabbitfishes	B.49
B-4-11	Spiny Lobster	B.50

(This page is intentionally left blank.)

COMMONWEALTH OF THE NORTHERN MARIANA ISLANDS 2014 FISHERY STATISTICS

INTRODUCTION

Location: 14° to 21°N latitude, 145°E

longitude

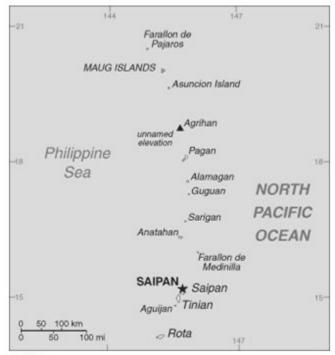
Main Islands: Saipan, Rota, Tinian

Population: about 52,344 (The World

Factbook, 2015 estimate)

Economy: industries (tourism, banking, construction, fishing, handicrafts, other services), agriculture

The domestic commercial fishery of the Commonwealth of the Northern Mariana Islands (CNMI) is mainly a small boat, troll fishery. Most boats are 12-24 ft outboard-powered, runabout type vessels, that make trolling trips of generally a day or less in duration. A few larger boats have been used in recent years for bottomfishing around the islands north of Saipan, in addition to trolling. There is also a small charter fleet



CNMI

Source: https://www.cia.gov/library/publications/the-world-

factbook/maps/cq-map.gif;

The World Factbook

Although trolling is the most common fishing method, bottomfishing and reef fishing are also popular. Reef fish make up a significant portion of the total commercial catch and are an important component of the local diet. While the vast majority of the domestic catch is consumed locally, in recent years there have been some intermittent exports to Guam, Hawaii, Korea, and Japan.

In 1982, NMFS WPacFIN began efforts to improve fisheries monitoring data and data processing systems in the Commonwealth by providing computer hardware, software, and training. Since then, numerous system upgrades and replacements have been put in place to keep up with changing technologies and increasing demand for fisheries statistics from the CNMI and other Pacific Island Region island areas.

DATA COLLECTION

The CNMI Department of Lands and Natural Resources, Division of Fish and Wildlife (DFW), has been collecting commercial fishery statistics for the Saipan fleet since the mid-1970s. In addition to a dealer invoicing system, they have implemented a creel survey program, filling the need for direct contact with fishermen. This program includes boat ramps, ports, and shoreline areas, and is used to estimate not only commercial landings, but also the recreational and subsistence components of the catch. With assistance from NOAA Fisheries and the US Fish & Wildlife Service's Federal Aid in Sportfish Restoration Program, DFW expanded its fisheries monitoring programs to explore limited monitoring for Rota and Tinian, the two other major inhabited islands in the CNMI.

DFW has the following major data collection programs in place:

- 1. Commercial Purchase Program a voluntary purchase receipt system for fish businesses on Saipan.
- 2. Boat-based Creel Survey Program (formerly the Offshore Creel Survey System) access-point creel surveys at boat ramps and along a designated route, mainly on Saipan.
- 3. Shore-based Creel Survey Program roving creel surveys along the shoreline, mainly on Saipan.

Commercial Purchase Program – DFW's principal domestic commercial fisheries data collection method is a dealer invoicing system, which has been referenced in the past as a "trip ticket system", although it is voluntary and fishers that sell to more than one vendor are represented by more than one invoice per trip. The DFW provides numbered invoices, each with a duplicate carbonless copy, to all purchasers of fresh fishery products (including hotels, restaurants, stores, fish markets, and roadside vendors). These fish vendors are supposed to complete an invoice each time they purchase fish directly from fishers, which is generally at the end of a fishing trip. One copy of the invoice goes to the DFW, and the other is maintained for the vendor's records.

Some advantages of this data collection method include that it is relatively inexpensive to implement and maintain, and makes it easy to completely cover the commercial market in this relatively small island economy with a limited number of fish vendors. Because DFW is responsible for collecting the invoices in person, another advantage is that DFW staff can provide direct feedback to vendors to ensure data accuracy and promote cooperation with this voluntary program. Some of the disadvantages that affect accuracy and completeness of data collected in this manner include: 1) dependence on non-DFW personnel (the vendors) to identify the catch and record the data, 2) limitations on the types of data that can be requested via the invoice form, 3) reliance on education and cooperation of fish purchasers to ensure the forms are filled out correctly, 4) limited direct contact with fishermen (no direct reporting by fishermen), and 5) no other means of cross-checking that fish actually sold to vendors are being reported. These and other factors, including door-to-door sales, contribute to the likelihood that a significant portion of commercial landings go unrecorded.

Since 1982, the DFW has tried in several ways to reduce drawbacks and maximize the benefits of the vendor invoicing system. They have tried to maintain a close working relationship with fish dealers, and have maintained and updated a list of dealers, which they use to check on invoices periodically and monitor vendor reporting. DFW staff has also made periodic education and outreach efforts to fish vendors over the years.

The current commercial purchase system collects data from vendors on Saipan, where the DFW estimates more than 90% of the Commonwealth's commercial landings are made. Since 1983, these data have been adjusted to represent 100% coverage. These adjusted values are referenced as "Estimated Commercial Landings" in the tables and charts.

Information collected from fish vendors by DFW staff includes the following:

- Date of purchase
- Buyer's Name (dealer)
- Seller's Name (fisherman)
- Species

- Invoice Number
- Weight (pounds by species)
- Price per pound (by species)
- Total Sales Value

These data elements are collected for all purchases of fishery products. However, it should be noted that "species" identification is frequently made only to a family or higher taxonomic group level, especially for reef fishes.

Boat-based Creel Survey Program – Around the year 2000, a boat-based creel survey sampling program was implemented on Saipan to provide statistics on all boat-based fishing, including non-commercial trips. The details of the Saipan boat-based fishery sampling program have changed over the years to accommodate changes in the fisheries, but it has remained a trip-based, stratified sampling program. During analysis, data are stratified by fishing method, type of day (weekday vs. weekend/holiday), port, and charter (vs. non-charter) status. Similar programs have been present on Tinian and Rota at times, but no long-term data are available for those islands.

DFW staff normally sample 9 weekdays and 9 weekend/holidays per quarter, spread across the three main ports: Sugar Dock, Fishing Base, and Smiling Cove. During survey days, all departing and returning fishing boats are logged, and interviews are attempted with each returning vessel. Four times on each survey day, staff drives along a designated route to note any boat-based fishing activity occurring at other locations. This serves to estimate the amount of boat-based fishing occurring outside the three main ports that are surveyed. It is assumed that the catch rates in these less-sampled areas are similar to those of the three main ports. Furthermore, fishers that are interviewed are assumed to be representative of the entire fishing population and to provide accurate information.

Vessels out fishing are detected either by the presence of a boat trailer near a launch area or the absence of a known boat at its designated berth. Unless contrary information is available from knowledgeable persons interviewed along the docks or in the local community, all such boats are assumed to be out fishing.

The following participation information is recorded for all boats, including those engaging in non-fishing activity:

- Survey date
- Location
- Type of day
- Departure time
- Return time

- Boat name or number
- Whether the trip is chartered
- Type of activity (i.e. fishing method for fishing trips)
- Whether the boat will be fishing

The remaining data elements, listed below, are collected from each returning vessel if an interview can be successfully completed:

- Interview date and time *
- Type of day *
- Location *
- Boat name or number
- Whether the trip is chartered *
- Whether the boat has a berth
- Number of people and guests on board
- Towing vehicle license number
- Weather
- Fishing method *
- Number of gears

- Hours fished
- Area fished
- Percent of catch to be sold
- Species caught *, with the following information for each species
 - Individual lengths *
 - o Individual weights
 - Number caught *
 - Total weight *
- Any bycatch

It is not always possible to obtain information on all the items listed. However, the ones marked with an asterisk (*) are considered essential for data expansion purposes. Identification and weight of each species are often not obtainable. Only if a species identification cannot be made, a code for species groupings (e.g., family level codes) can be used.

Boat log data and island-wide trailer counts are expanded to estimate the total number of fishing trips on Saipan, and interview data are used to compute the average catch per trip. This is conducted separately for each analysis stratum. Multiplying the estimated trips by the average catch per trip then provides an estimate of the total catch on Saipan. If data are available for the current year from creel surveys on Tinian and Rota, the expanded catch for those islands may be added in to create an estimate for all of the CNMI.

Shore-based Creel Survey Program – Around 2005, a shore-based creel survey sampling program was implemented on Saipan to provide statistics on all shore-based fishing, including non-commercial activity. The details of the shore-based fishery sampling program have changed over the years to accommodate changes in the fisheries. But it has remained an hourly CPUE-based stratified random sampling program. During analysis, data are stratified by fishing method, type of day, and time of day. Similar programs have been present on Tinian and Rota at times, but no long-term data are available for those islands.

DFW staff normally conducts 16 weekday and 16 weekend/holiday surveys per quarter. If additional surveyor time is available, it is often used to conduct additional shore-based surveys. In 2014, 96 weekday and 42 weekend surveys were conducted. During participation runs, staff drives along a designated route and records all fishing activity spotted. Any activity that involves a motorized vessel is not counted, unless the vessel: 1) is used primarily for transporting such items as gill nets, surround nets, and drag nets, and 2) was launched from a beach, not a boat ramp. During interview runs, staff drives back along the designated route and attempts to interview all fishermen that are encountered. Fishers that are interviewed are assumed to be representative of the entire fishing population and to provide accurate information.

During participation runs, the following information is recorded:

- Survey date
- Type of day
- Shift time
- Start location
- Observation time
- Location

- Number of fishers
- Number of gears
- Fishing method
- Reef zone
- Weather

During interviews, the following information is recorded:

- Interview date and time
- Type of day
- Number of fishermen
- Fishing start and stop time
- Fishing method
- Number of gears
- Location
- Reef zone
- Proportion of catch to be sold

- Weather
- Species caught, with the following information for each species:
 - o Individual lengths
 - o Individual weights
 - Number caught
 - o Total weight
- Any bycatch

If time does not allow for the length and weight of each fish to be measured, weights can be skipped and estimated using length measurements. Only if a species identification cannot be made, a code for species groupings (e.g., family level codes) may be used.

Participation data are expanded to estimate the total gear-hours of shore-based fishing activity on Saipan, and interview data are used to estimate the average catch per gear-hour. This is done separately for each analysis stratum. Multiplying the estimated gear-hours by the average catch per gear-hour then provides an estimate of the total catch on Saipan. If data are available for the current year from creel surveys on Tinian and Rota, the expanded catch for those islands may be added in to create an estimate for all of the CNMI.

DATA PROCESSING

At the beginning of each month, a DFW employee visits each of the fish vendors on Saipan to collect the previous month's invoices, resolve problems, and answer any questions the dealers may have. The invoices are returned to the office for an initial visual quality control check and are then entered into the Commercial Purchase System database. After data entry, reports are generated using software developed by WPacFIN to help identify and further check their accuracy. On a monthly basis, a copy of the database is sent to the Pacific Islands Fisheries Science Center (PIFSC), in Honolulu, where the WPacFIN central office is located. The data are uploaded to a central computer system and subjected to additional quality control and validation steps, before generating the non-confidential summary reports used by WPacFIN participants and clients, including the public. The confidential data, warehoused at WPacFIN Central, remains the property of the DFW, but can be provided to authorized users with DFW approval ands appropriate nondisclosure agreements in place.

DATA REPORTING

After all editing, adjustment, and quality control activities have been completed, monthly and annual summaries are generated by species. Please note that commercial landings data have been adjusted to an estimated 100%, referred to as "Estimated Commercial Landings" in the charts and tables.

Each table contains the common name, estimated weight (in pounds), estimated value (in dollars), and the average price per pound by species or group. The monthly tables contain estimated subtotals for each species. The annual table contains the estimated total commercial landings for each species for the calendar year. Graphs of statistics for some of the more important commercial species or groups are also provided. To see the most current charts and tables, please visit the WPacFIN website (https://www.pifsc.noaa.gov/wpacfin).

SPECIES CATEGORIES

The species, families, and other groups used in the tables and graphs of DFW data for the CNMI are described, based on the most commonly used local (island area) names in this section. Differences in local vernacular may result in different common names for the same species across the region, but to ensure these summaries are clearly understood by local clients, the most common local names are used throughout this section. Scientific names are also provided in the tables to ensure the data summaries can be compared across the region. Because of the nature of vendor data, several species (even several families), are sometimes reported together. This occurs often with bottomfish and some reef species. Vendors may not take the time to separate all fish purchased by species. They tend to weigh common fishes by lots (or coolers). However, vendors (and fishermen selling their catch) will weigh species that are more valued by consumers separately, since they command a higher price per pound.

The use of common names varies throughout the Pacific, and some of the names used in the CNMI market data are derived spellings of Hawaiian (and Japanese) names, since portions of the market were first developed in Hawaii. This publication is gradually evolving to be based upon a comprehensive species table that includes the local indigenous languages, Chamorro and Carolinian. However, this is a work in progress. As with other changes, for the time being the usual categories will be maintained for ease of comparison with historical volumes of this report. The common names and corresponding scientific names are provided in the following tables.

It should be noted that some of the species in this report have been included in different groups over the years. For example, the Magnuson Fishery Conservation and Management Act of 1976 was amended in 1992 to include tunas in the category Pelagic Management Unit Species (PMUS). However, this report will maintain the original species categories from previous volumes for easy comparison, until a comprehensive update can be completed. As such, tunas are kept in a separate category. To see the most current taxonomic information for species caught commercially in the CNMI and other US-associated Pacific island areas, please visit the WPacFIN website (https://www.pifsc.noaa.gov/wpacfin).

I. Pelagic Management Unit Species (PMUS)

Blue marlin (Makaira mazara) Mahimahi (Coryphaena hippurus)

Sailfish (Istiophorus platypterus)

Sharks (Isurus oxyrinchus, Isurus paucus, and various Carcharhinus spp.)

Spearfish (Tetrapturus angustirostris) Wahoo (Acanthocybium solandri)

II. Bottomfish Management Unit Species (BMUS)

Alfonsin (Beryx decadactylus)

Amberjack (Seriola dumerili)

Black jack (Caranx lugubris)

Blacktip grouper (Epinephelus fasciatus)

Blue-lined snapper (*Lutjanus kasmira*) Ehu/Red snapper (*Etelis carbunculus*)

Giant trevally (Caranx ignobilis)

Gindai/Flower snapper (Pristipomoides zonatus)

Jobfish/Uku (Aprion virescens)

Kalikali/Yellowtail (Pristipomoides auricilla)

Lyretail grouper (Variola louti)

Onaga/Red snapper (Etelis coruscans)

Opakapaka/Pink snapper (Pristipomoides filamentosus)

Redgill emperor (Lethrinus lentjan)

Silvermouth/Deep lehi (Aphareus rutilans)

Yelloweye opakapaka (Pristipomoides flavipinnis)

III. Tunas

Kawakawa/Saba (Euthynnus affinis)

Skipjack tuna (Katsuwonus pelamis)

Tunas (unspecified)¹

Yellowfin tuna (Thunnus albacares)

IV. Other Scombrids

Dogtooth tuna (Gymnosarda unicolor)

(See footnote 1)

¹ This group includes species that comprise a very small portion of the catch, unidentified tunas, and apparent misidentifications. Because of the small amount of catch, and the tendency of vendors to throw in the dogtooth tuna with this group (although it is not actually a tuna), this group is combined with "other scombrids" in some of the charts.

V. Fisheries Categories

A. Pelagic Fishes

Barracudas up to 5 species (Sphyraena spp.)

Sailfish (Istiophorus platypterus)

Blue marlin (Makaira mazara) Sharks (Isurus oxyrinchus, Isurus paucus, and various Carcharhinus spp.)

Dogtooth tuna (Gymnosarda unicolor)

Kawakawa/Saba (Euthynnus affinis)

Mahimahi (Coryphaena hippurus)

Pelagic fishes (unspecified)

Pelagic fishes (unspecified)

Pelagic fishes (Unspecified)

Pelagic fishes (Theoretic hippurus)

Vallentia tuna (Theoretic hippurus)

Rainbow runner (Elagatis bipinnulata) Yellowfin tuna (Thunnus albacares)

B. Bottomfishes

Alfonsin (Beryx decadactylus)

Amberjack (Seriola dumerili)

Kalikali/Yellowtail (Pristipomoides auricilla)

Longnose emperor (Lethrinus olivaceus)

Bigeye emperor (Monotaxis grandoculis)

Lyretail grouper (Variola louti)

Bigeye trevally (Caranx sexfasciatus)

Marbled grouper (Epinephelus polyphekadion)

Black jack (Caranx lugubris)

Onaga/Red snapper (Etelis coruscans)

Blackspot emperor (Lethrinus harak)

Onespot snapper (Lutjanus monostigma)

Blacktip grouper (Epinephelus fasciatus) Opakapaka/Pink snapper (Pristipomoides filamentosus)

Blue-lined gindai (*Pristipomoides argyrogrammicus*)

Blue-lined snapper (*Lutjanus kasmira*)

Orangespotted trevally (*Carangoides bajad*)

Orangefin emperor (*Lethrinus erythracanthus*)

Bluefin trevally (Caranx melampygus) Peacock grouper (Cephalopholis argus)

Bottomfishes (unspecified²) Pink grouper (Saloptia powelli)
Brassy trevally (Caranx papuensis) Red snapper (various Etelinae)
Ehu/Red snapper (Etelis carbunculus) Redgill emperor (Lethrinus lentjan)

Eight banded grouper (Hyporthodus octofasciatus)

Saddleback grouper/Giant coral trout (Plectropomus laevis)

Emperors (various Lethrinidae) Sickle pomfret (Taractichthys steindachneri)

Flagtail grouper (Cephalopholis urodeta)
Flametail snapper (Lutjanus fulvus)³
Giant trevally (Caranx ignobilis)

Silvermouth/Deep lehi (Aphareus rutilans)
Smalltooth jobfish (Aphareus furca)
Stout emperor (Gymnocranius sp.)

Gindai/Flower snapper (Pristipomoides zonatus)

Tomato grouper (Cephalopholis sonnerati)

² May include various deep bottom snappers (most Etelinae, some *Lutjanus* spp. listed above), groupers (Serranidae), emperors (Lethrinidae), deep jacks, and trevallies (Carangidae).

³ Mistakenly referred to as a flametail "emperor" (by vendors and in previous volumes of this report), also known in the literature as blacktail snapper.

Groupers (various Serranidae)

Highfin grouper (Epinephelus maculatus)

Honeycomb grouper (Epinephelus merra)

Humpback snapper (Lutjanus gibbus)

Jacks (various Carangidae)

Jobfish/Uku (Aprion virescens)

White lyretail grouper (Variola albimarginata)

Yellow-banded grouper (Cephalopholis igarashiensis)

Yellowspotted trevally (Carangoides fulvoguttatus)

Yelloweye opakapaka (Pristipomoides flavipinnis)

Yellowlip emperor (Lethrinus xanthochilus)

Yellowstripe emperor (Lethrinus obsoletus)

C. Reef Fishes

Bigeyes/glasseyes (Priacanthus spp. and Heteropriacanthus cruentatus)

Blue-banded surgeonfish (Acanthurus lineatus)

Bluespine unicornfish (Naso unicornis)

Butterflyfishes (various Chaetodontidae)

Convict tang (Acanthurus triostegus)⁴

Dash & dot goatfish (Parupeneus barberinus)

Fusiliers (Caesio spp., Pterocaesio spp.)

Goatfishes (various Mullidae)

Highfin rudderfish, brown (Kyphosus vaigiensis)

Highfin rudderfish, silver (Kyphosus cinerascens)

Humphead wrasse (Cheilinus undulatus)

Orangespine unicornfish (Naso lituratus)

Parrotfishes (various Scaridae)

Rabbitfishes (Siganus spp.)

Reef fishes (multiple families, unspecified)

Shallow snappers (generally Lutjanus spp.)

Soldierfishes (Myripristis spp., Ostichthys spp.)

Squirrelfishes (Sargocentron spp., Neoniphon spp.)

Surgeonfishes (various Acanthuridae)

Sweetlips (various Haemulidae)

Triggerfishes (various Balistidae)

Tripletail wrasse (Cheilinus trilobatus)

Two-barred goatfish (Parupeneus bifasciatus)

Unicornfishes (various Naso spp.)

Wrasses (various Labridae)

Yellowfin surgeonfish (Acanthurus xanthopterus)

Yellowstripe goatfish (Mulloidichthys flavolineatus)

⁴ May include a small amount of the mimic convict surgeonfish *Acanthurus chronixis*.

D. Other Fishes, Algae & Invertebrates

Bigeye scad/Atulai (Selar crumenophthalmus)

Clams/bivalves (various Bivalvia)

Coconut crab (Birgus latro)

Crabs (various Brachyura)

Invertebrates (various, unspecified)

Lemu/Seaweeds (various, unspecified)

Milkfish (Chanos chanos)

Mullet (various Mugilidae)

Octopus (most Octopus spp.)

Sea cucumbers (Holothuroidea)

Shrimp (saltwater Caridea)

Slipper lobster (various Scyllarides, Scyllarus, and Parribacus spp.)

Spiny lobster (various Panulirus spp.)

Squids (various Teuthoidea)

Trochus (*Trochus* spp.)

Table B-1 CNMI Annual 2014 Estimated Commercial Landings

Group Subgroup Scientific Name	Common/local name	Lbs Sold	Estimated Value	Price/ Lb
Section 1 Many	Common rocar name	5014	y arac	Lo
FISHES:				
Scombridae				
Tunas				
Euthynnus affinis	Kawakawa (saba)	1,813	3,628	2.00
Katsuwonus pelamis	Skipjack tuna	161,798	372,597	2.30
Thunnus albacares	Yellowfin tuna	15,102	35,366	2.34
Other scombrids				
Acanthocybium solandri	Wahoo	7,262	17,778	2.45
Gymnosarda unicolor	Dogtooth tuna	5,345	12,251	2.29
Billfishes				
Istiophoridae				
Istiophorus platypterus	Sailfish	87	160	1.84
Makaira mazara	Blue marlin	2,547	5,503	2.16
Other fishes		,	ŕ	
Acanthuridae (Tangs, Surgeons, U	Inicornfishes)			
Acanthurus, Ctenochaetus spp.	Surgeonfishes (unspecified)	1,228	3,149	2.56
Naso spp.	Unicornfishes (unspecified)	1,280	3,555	2.78
**	Cincomisies (unspecifica)	1,200	3,333	2.70
Carangidae (jacks & trevallies)	To also	572	1.560	2.72
Carangidae (unspecified) Seriola dumerili	Jacks	573 916	1,568	2.73
	Greater amberjack		2,366	2.58
Selar crumenopthalmus Elagatis bipinnulata	Bigeye scad Rainbow runner	2,453 1,400	6,610 3,139	2.69 2.24
		1,400	3,139	2.24
Coryphaenidae (mahimahi/dolphi	nfish)			
Coryphaena hippurus, C. equiselis	Mahimahi	38,084	87,319	2.29
=	~ .			
Holocentridae (squirrel & soldiers		1.160	2.250	2.70
Sargocentron, Neoniphon spp.	Squirrelfishes	1,169	3,250	2.78
Labridae (wrasses)				
Labridae (unspecified)	Wrasses	150	437	2.92
Lethrinidae (emperors)				
Lethrinidae (unspecified)	Emperors	2,826	8,499	3.01
Lutjanidae (snappers)				
Aphareus furca	Smalltooth jobfish	1,710	6,139	3.59
Aprion virescens	Jobfish (uku)	2,083	6,600	3.17
Etelis carbunculus	Ehu (red snapper)	870	3,414	3.92
Etelis coruscans	Onaga (red snapper)	9,580	59,710	6.23
Pristipomoides auricilla	Kalikali (yellowtail)	1,052	3,438	3.27
Pristipomoides filamentosus	Opakapaka (pink snapper)	2,109	8,155	3.87
Pristipomoides zonatus	Gindai (flower snapper)	591	2,493	4.22
Mugilidae (mullets)				
Mugilidae (unspecified)	Mullet	102	261	2.57
Mullidae (goatfishes)				
Mullidae (unspecified)	Goatfishes	3,595	10,046	2.79
		-,-,-	- 5,5 .5	,

B.13

Table B-1 CNMI Annual 2014 Estimated Commercial Landings

oup Subgroup		Lbs	Estimated	Price/
Scientific Name	Common/local name	Sold	Value	Lb
Other fishes (continued)				
Scaridae (parrotfishes) Scaridae (unspecified)	Parrotfishes	11,314	35,915	3.17
Serranidae (groupers) Serranidae (unspecified)	Groupers	625	3,045	4.87
Siganidae (rabbitfishes) <i>Siganidae (unspecified)</i>	Rabbitfishes	3,146	9,796	3.11
Sphyraenidae (barracudas) <i>Sphyraena spp</i> .	Barracudas	155	328	2.1
Unspecified Fish Groups				
Carangidae, Lutjanidae, Lethrinidae & Serranidae	Bottomfishes (unspecified)	5,668	19,261	3.40
Unknown Various (many) families	Pelagic fishes (unspecified) Reef fishes (unspecified)	1,025 24,668	2,780 63,118	2.73
Miscellaneous Seafood (insufficie	nt information)			
Unknown fish/invertebrates	Miscellaneous (unspecified)	105	282	2.67
Unknown fish/invertebrates	Unknown	3,053	8,543	2.80
NVERTEBRATES:				
Crustaceans: Lobsters Panulirus spp. (any of several)	Spiny lobster	365	4,202	11.50
Mollusks				
Cephalopoda: Coleoidea, Decapodiformes	Squid	39	196	5.00
Octopus spp.	Octopus	581	1,587	2.73
Invertebrates (unspecified)				
Unknown	Invertebrates (unspecified)	5,683	49,041	8.63
	Total	322,153	\$865,525	\$2.69

Table B-2 CNMI January 2014 Estimated Commercial Landings

Group	-		6	
Subgroup Scientific Name	Common/local name	Lbs Sold	Estimated Value	Price/ Lb
FISHES:				
Scombridae				
Tunas				
Euthynnus affinis	Kawakawa (saba)	722	1,520	2.11
Katsuwonus pelamis	Skipjack tuna	13,766	31,338	2.28
Thunnus albacares	Yellowfin tuna	2,639	6,201	2.35
Other scombrids				
Acanthocybium solandri	Wahoo	1,129	2,789	2.47
Gymnosarda unicolor	Dogtooth tuna	574	1,178	2.05
Other fishes				
Acanthuridae (Tangs, Surgeons, U	Inicornfishes)			
Acanthurus, Ctenochaetus spp.	Surgeonfishes (unspecified)	379	956	2.52
Naso spp.	Unicornfishes (unspecified)	364	910	2.50
Carangidae (jacks & trevallies)				
Carangidae (unspecified)	Jacks	27	68	2.50
Seriola dumerili	Greater amberjack	33	83	2.50
Elagatis bipinnulata	Rainbow runner	129	311	2.41
		12)	311	2.11
Coryphaenidae (mahimahi/dolphi Coryphaena hippurus, C.	niisn)			
equiselis	Mahimahi	13,829	31,380	2.27
Holocentridae (squirrel & soldierf	iches)			
Sargocentron, Neoniphon spp.	Squirrelfishes	338	845	2.50
	Squiremsnes	330	043	2.50
Labridae (wrasses)	Wassass	0	21	2.50
Labridae (unspecified)	Wrasses	8	21	2.50
Lethrinidae (emperors)	_			
Lethrinidae (unspecified)	Emperors	98	271	2.75
Lutjanidae (snappers)				
Etelis coruscans	Onaga (red snapper)	10	50	5.00
Pristipomoides auricilla	Kalikali (yellowtail)	29	77	2.62
Pristipomoides filamentosus	Opakapaka (pink snapper)	43	135	3.12
Pristipomoides zonatus	Gindai (flower snapper)	17	71	4.18
Mugilidae (mullets)				
Mugilidae (unspecified)	Mullet	14	35	2.50
Mullidae (goatfishes)				
Mullidae (unspecified)	Goatfishes	340	850	2.50
Scaridae (parrotfishes)	0.0000000000000000000000000000000000000			_,,,
Scaridae (pariotrisiles) Scaridae (unspecified)	Parrotfishes	365	1,135	3.11
, • • •	1 diformanca	303	1,133	J.11
Siganidae (rabbitfishes)	Dobbitfich	500	1 022	2.06
Siganidae (unspecified)	Rabbitfishes	598	1,832	3.06
Unspecified Fish Groups	- ag. 1 () = 5			<u>.</u>
Various (many) families	Reef fishes (unspecified)	2,270	5,703	2.51
Miscellaneous Seafood (insufficient				
Unknown fish/invertebrates	Unknown	300	766	2.55

Table B-2 CNMI January 2014 Estimated Commercial Landings

Group Subgroup Scientific Name	Common/local name	Lbs Sold	Estimated Value	Price/ Lb
	Common/total name	5014	, 4140	
INVERTEBRATES:				
Mollusks				
Octopus spp.	Octopus	130	340	2.61
Invertebrates (unspecified)				
Unknown	Invertebrates (unspecified)	10	31	3.08
	Total	38,161	\$88,896	\$2.33

Table B-3 CNMI February 2014 Estimated Commercial Landings

Group

Subgroup		Lbs	Estimated	Price/
Scientific Name	Common/local name	Sold	Value	Lb
FISHES:				
Scombridae				
Tunas				
Euthynnus affinis	Kawakawa (saba)	401	752	1.88
Katsuwonus pelamis	Skipjack tuna	7,752	17,764	2.29
Thunnus albacares	Yellowfin tuna	1,378	3,123	2.27
Other scombrids				
Acanthocybium solandri	Wahoo	3,506	8,101	2.31
Gymnosarda unicolor	Dogtooth tuna	823	1,816	2.21
Other fishes				
Acanthuridae (Tangs, Surgeons, Tangs)	Unicornfishes)			
Acanthurus, Ctenochaetus spp.	Surgeonfishes (unspecified)	365	917	2.51
Naso spp.	Unicornfishes (unspecified)	143	371	2.59
Carangidae (jacks & trevallies)				
Carangidae (unspecified)	Jacks	340	861	2.54
Seriola dumerili	Greater amberjack	130	367	2.82
Selar crumenopthalmus	Bigeye scad	44	126	2.87
Elagatis bipinnulata	Rainbow runner	175	202	1.15
Coryphaenidae (mahimahi/dolph	infish)			
Coryphaena hippurus, C. equiselis	Mahimahi	8,359	17,698	2.12
Holocentridae (squirrel & soldier	fishes)			
Sargocentron, Neoniphon spp.	Squirrelfishes	212	549	2.59
Lethrinidae (emperors)				
Lethrinidae (unspecified)	Emperors	167	459	2.75
Lutjanidae (snappers)				
Aphareus furca	Smalltooth jobfish	235	699	2.97
Aprion virescens	Jobfish (uku)	15	31	2.00
Etelis carbunculus	Ehu (red snapper)	98	364	3.72
Etelis coruscans	Onaga (red snapper)	802	4,139	5.16
Pristipomoides auricilla	Kalikali (yellowtail)	251	836	3.34
Pristipomoides filamentosus	Opakapaka (pink snapper)	98	283	2.88
Pristipomoides zonatus	Gindai (flower snapper)	142	560	3.94
Mugilidae (mullets)				
Mugilidae (unspecified)	Mullet	16	40	2.50
Mullidae (goatfishes) Mullidae (unspecified)	Goatfishes	454	1,135	2.50
Scaridae (parrotfishes)	Goathshes	434	1,133	2.30
_	Damet Salesa	651	1 005	2.04
Scaridae (unspecified)	Parrotfishes	654	1,985	3.04
Serranidae (groupers)	C	10	27	2.00
Serranidae (unspecified)	Groupers	12	37	3.00
Siganidae (rabbitfishes)	D 11:01			• • • •
Siganidae (unspecified)	Rabbitfishes	443	1,363	3.08

B.17

Table B-3 CNMI February 2014 Estimated Commercial Landings

Group				
Subgroup Scientific Name	Common/local name	Lbs Sold	Estimated Value	Price/ Lb
Other fishes (continued)				
Unspecified Fish Groups				
Carangidae, Lutjanidae, Lethrinidae & Serranidae	Bottomfishes (unspecified)	109	273	2.50
Unknown	Pelagic fishes (unspecified)	837	2,302	2.75
Various (many) families	Reef fishes (unspecified)	2,341	5,914	2.53
Miscellaneous Seafood (insuffic	cient information)			
Unknown fish/invertebrates	Miscellaneous (unspecified)	36	108	3.00
Unknown fish/invertebrates	Unknown	509	1,281	2.52
INVERTEBRATES:				
Mollusks				
Octopus spp.	Octopus	243	702	2.89
Invertebrates (unspecified)				
Unknown	Invertebrates (unspecified)	574	4,585	7.99

31,664

\$79,743

\$2.52

Total

B.18

Table B-4
CNMI March 2014 Estimated Commercial Landings

Group Subgroup		Lbs	Estimated	Price/
Scientific Name	Common/local name	Sold	Value	Lb
FISHES:				
Scombridae				
Tunas				
Euthynnus affinis	Kawakawa (saba)	498	925	1.86
Katsuwonus pelamis Thunnus albacares	Skipjack tuna Yellowfin tuna	11,233	28,148	2.51
	Yellowiin tuna	1,730	4,079	2.36
Other scombrids	W7-1	1.047	2.521	2.41
Acanthocybium solandri Gymnosarda unicolor	Wahoo Dogtooth tuna	1,047 676	2,521 1,298	2.41 1.92
Billfishes	Dogtootii tulia	070	1,298	1.92
Istiophoridae	D1 1:	20.5	0.50	2.22
Makaira mazara	Blue marlin	385	852	2.22
Other fishes				
Acanthuridae (Tangs, Surgeons,				
Acanthurus, Ctenochaetus spp.	Surgeonfishes (unspecified)	436	1,121	2.57
Naso spp.	Unicornfishes (unspecified)	299	755	2.52
Carangidae (jacks & trevallies)				
Selar crumenopthalmus	Bigeye scad	232	658	2.83
Elagatis bipinnulata	Rainbow runner	130	300	2.31
Coryphaenidae (mahimahi/dolphir	nfish)			
Coryphaena hippurus, C. equiselis	Mahimahi	8,212	18,330	2.23
Holocentridae (squirrel & soldierfi	ishes)			
Sargocentron spp., Neoniphon spp.	Squirrelfishes	224	572	2.55
Lethrinidae (emperors)				
Lethrinidae (unspecified)	Emperors	320	943	2.95
Lutjanidae (snappers)				
Etelis coruscans	Onaga (red snapper)	17	110	6.50
Mugilidae (mullets)				
Mugilidae (unspecified)	Mullet	72	186	2.60
Mullidae (goatfishes)				
Mullidae (unspecified)	Goatfishes	209	529	2.53
Scaridae (parrotfishes)				
Scaridae (unspecified)	Parrotfishes	678	2,042	3.01
Serranidae (groupers)			•	
Serranidae (unspecified)	Groupers	28	83	3.00
Siganidae (rabbitfishes)	1			
Siganidae (unspecified)	Rabbitfishes	574	1,565	2.73
Sphyraenidae (barracudas)			,	
· · · · · · · · · · · · · · · · · · ·				

B.19

Table B-4
CNMI March 2014 Estimated Commercial Landings

Group			6	
Subgroup		Lbs	Estimated	Price/
Scientific Name	Common/local name	Sold	Value	Lb
Other fishes (continued)				
Unspecified Fish Groups				
Carangidae, Lutjanidae,	Bottomfishes (unspecified)	67	167	2.50
Unknown	Pelagic fishes (unspecified)	49	123	2.50
Various (many) families	Reef fishes (unspecified)	1,205	3,013	2.50
Miscellaneous Seafood (insufficion	ent information)			
Unknown fish/invertebrates	Unknown	501	1,254	2.50
INVERTEBRATES:				
Mollusks				
Octopus spp.	Octopus	115	312	2.70
Invertebrates (unspecified)				
Unknown	Invertebrates (unspecified)	8	43	5.60
	Total	29,065	\$70,169	\$2.41

Table B-5
CNMI April 2014 Estimated Commercial Landings

Group	-				
Subgroup			Estimated	Price/	
Scientific Name	Common/local name	Lbs Sold	Value	Lb	
FISHES:					
Scombridae					
Tunas			• •		
Euthynnus affinis	Kawakawa (saba)	15	38	2.50	
Katsuwonus pelamis	Skipjack tuna	17,594	39,645	2.25	
Thunnus albacares	Yellowfin tuna	1,449	3,238	2.23	
Other scombrids					
Acanthocybium solandri	Wahoo	959	2,636	2.75	
Gymnosarda unicolor	Dogtooth tuna	1,619	3,755	2.32	
Billfishes					
Istiophoridae					
Istiophorus platypterus	Sailfish	55	97	1.75	
Makaira mazara	Blue marlin	353	802	2.27	
Carangidae (jacks & trevallies)					
Carangidae (unspecified)	Jacks	95	322	3.40	
Seriola dumerili	Greater amberjack	533	1,476	2.77	
Selar crumenopthalmus	Bigeye scad	905	2,370	2.62	
Elagatis bipinnulata	Rainbow runner	115	301	2.61	
Coryphaenidae (mahimahi/dolpl	ninfish)				
Coryphaena hippurus, C.		4.106	10.620	2.50	
equiselis	Mahimahi	4,106	10,620	2.59	
Lethrinidae (emperors)					
Lethrinidae (unspecified)	Emperors	568	1,990	3.50	
Lutjanidae (snappers)	•		,		
Aphareus furca	Smalltooth jobfish	265	917	3.46	
Aprion virescens	Jobfish (uku)	209	709	3.39	
Etelis carbunculus	Ehu (red snapper)	195	778	4.00	
Etelis coruscans	Onaga (red snapper)	1,523	9,257	6.08	
Pristipomoides auricilla	Kalikali (yellowtail)	133	483	3.63	
Pristipomoides	Opakapaka (pink snapper)	75	288	3.85	
Pristipomoides zonatus	Gindai (flower snapper)	150	660	4.40	
Scaridae (parrotfishes)					
Scaridae (unspecified)	Parrotfishes	1,260	4,049	3.21	
Serranidae (groupers)		,	, -		
Serranidae (unspecified)	Groupers	257	1,413	5.50	
Siganidae (rabbitfishes)	Groupers	23 /	1,113	5.50	
,	D -1.1. 3 (C -1	262	0.52	2.25	
Siganidae (unspecified)	Rabbitfishes	262	853	3.25	
Unspecified Fish Groups					
Carangidae, Lutjanidae,	Bottomfishes	214	612	2.86	
Lethrinidae & Serranidae	(unspecified)	∠1 4	012	2.60	
Various (many) families	Reef fishes (unspecified)	2,772	6,880	2.48	
Miscellaneous Seafood (insuffici	ient information)				
Unknown fish/invertebrates	Unknown	173	577	3.33	

B.21

Table B-5 CNMI April 2014 Estimated Commercial Landings

Group Subgroup Estimated Price/ Scientific Name Lbs Sold Common/local name Value Lb **INVERTEBRATES:** Mollusks Octopus spp. Octopus 65 162 2.50 Invertebrates (unspecified) Invertebrates Unknown 177 1,341 7.59 (unspecified) Total 36,096 \$96,269 **\$2.67**

Table B-6
CNMI May 2014 Estimated Commercial Landings

Subgroup Scientific Name	Common/local name	Lbs Sold	Estimated Value	Price Lt
FISHES:	COMMON ACCOUNTS	2014	, 11110	
Scombridae				
Tunas				
Katsuwonus pelamis	Skipjack tuna	15,755	34,565	2.19
Thunnus albacares	Yellowfin tuna	1,209	2,784	2.30
Other scombrids				
Acanthocybium solandri	Wahoo	95	260	2.73
Gymnosarda unicolor	Dogtooth tuna	174	435	2.50
Billfishes				
Istiophoridae				
Makaira mazara	Blue marlin	288	720	2.50
Carangidae (jacks & trevallies)				
Carangidae (unspecified)	Jacks	81	239	2.9
Seriola dumerili	Greater amberjack	15	31	2.0
Selar crumenopthalmus	Bigeye scad	528	1,359	2.5
Elagatis bipinnulata	Rainbow runner	302	676	2.2
Coryphaenidae (mahimahi/dolph	ninfish)			
Coryphaena hippurus, C. equiselis	Mahimahi	475	1,271	2.6
Lethrinidae (emperors)				
Lethrinidae (unspecified)	Emperors	74	237	3.2
Lutjanidae (snappers)				
Aprion virescens	Jobfish (uku)	68	220	3.2
Etelis carbunculus	Ehu (red snapper)	216	855	3.9
Etelis coruscans	Onaga (red snapper)	88	463	5.2
Pristipomoides auricilla	Kalikali (yellowtail)	79	257	3.2
Pristipomoides filamentosus	Opakapaka (pink snapper)	448	1,752	3.9
Pristipomoides zonatus	Gindai (flower snapper)	52	179	3.4
Scaridae (parrotfishes)				
Scaridae (unspecified)	Parrotfishes	1,605	5,201	3.2
Serranidae (groupers)				
Serranidae (unspecified)	Groupers	54	188	3.50
Siganidae (rabbitfishes)				
Siganidae (unspecified)	Rabbitfishes	152	495	3.23
Unspecified Fish Groups				
Carangidae, Lutjanidae,	Bottomfishes (unspecified)	271	794	2.93
Various (many) families	Reef fishes (unspecified)	2,527	6,406	2.5
Miscellaneous Seafood (insufficial	ent information)			
Unknown fish/invertebrates	Unknown	132	398	3.03

Table B-6 CNMI May 2014 Estimated Commercial Landings

Group				
Subgroup		Lbs	Estimated	Price/
Scientific Name	Common/local name	Sold	Value	Lb
INVERTEBRATES:				
Mollusks				
Octopus spp.	Octopus	26	65	2.50
Invertebrates (unspecified)				
Unknown	Invertebrates (unspecified)	1,248	10,064	8.06
	Total	25,962	\$69,914	\$2.69

Table B-7
CNMI June 2014 Estimated Commercial Landings

Group				
Subgroup		Lbs	Estimated	Price/
Scientific Name	Common/local name	Sold	Value	Lb
FISHES:				
Scombridae				
Tunas				
Katsuwonus pelamis	Skipjack tuna	15,610	34,958	2.24
Thunnus albacares	Yellowfin tuna	642	1,355	2.11
Other scombrids				
Acanthocybium solandri	Wahoo	111	277	2.50
Billfishes				
Istiophoridae				
Makaira mazara	Blue marlin	437	960	2.20
Other fishes				
Acanthuridae (Tangs, Surgeons, U	Unicornfishes)			
Naso spp.	Unicornfishes (unspecified)	69	225	3.25
Carangidae (jacks & trevallies)				
Carangidae (unspecified)	Jacks	8	19	2.50
Selar crumenopthalmus	Bigeye scad	744	2,097	2.82
Elagatis bipinnulata	Rainbow runner	38	77	2.00
Coryphaenidae (mahimahi/dolphi	nfish)			
Coryphaena hippurus, C.	,	250	007	0.51
equiselis	Mahimahi	358	897	2.51
Holocentridae (squirrel & soldierf	ishes)			
Sargocentron spp., Neoniphon	Carrianal Caleaa	07	215	2.25
spp.	Squirrelfishes	97	315	3.25
Labridae (wrasses)				
Labridae (unspecified)	Wrasses	65	178	2.75
Lethrinidae (emperors)				
Lethrinidae (unspecified)	Emperors	517	1,343	2.60
Lutjanidae (snappers)				
Aprion virescens	Jobfish (uku)	140	280	2.00
Pristipomoides auricilla	Kalikali (yellowtail)	104	285	2.74
Pristipomoides filamentosus	Opakapaka (pink snapper)	17	47	2.75
Pristipomoides zonatus	Gindai (flower snapper)	46	185	4.00
Mullidae (goatfishes)				
Mullidae (unspecified)	Goatfishes	292	869	2.98
Scaridae (parrotfishes)				
Scaridae (unspecified)	Parrotfishes	2,220	7,179	3.23
Serranidae (groupers)				
Serranidae (unspecified)	Groupers	39	133	3.38
Siganidae (rabbitfishes)	•			
Siganidae (unspecified)	Rabbitfishes	196	616	3.14
Sphyraenidae (barracudas)		170	010	5.11
Sphyraena spp.	Barracudas	35	88	2.50
σρηγιατία σρφ.	Darracadas	55	00	2.30

Table B-7
CNMI June 2014 Estimated Commercial Landings

Group				
Subgroup Scientific Name	Common/local name	Lbs Sold	Estimated Value	Price/ Lb
Other fishes (continued)				
Unspecified Fish Groups				
Carangidae, Lutjanidae, Lethrinidae & Serranidae	Bottomfishes (unspecified)	28	69	2.50
Various (many) families	Reef fishes (unspecified)	3,092	8,228	2.66
Miscellaneous Seafood (insuffic	ient information)			
Unknown fish/invertebrates	Unknown	196	630	3.21
INVERTEBRATES:				
Mollusks				
Cephalopoda: Coleoidea, Decapodiformes	Squid	38	188	5.00
Invertebrates (unspecified)				
Unknown	Invertebrates (unspecified)	2,012	17,942	8.92
	Total	27,151	\$79,440	\$2.93

Table B-8
CNMI July 2014 Estimated Commercial Landings

Group

Subgroup		Lbs	Estimated	Price/
Scientific Name	Common/local name	Sold	Value	Lb
FISHES:				
Scombridae				
Tunas				
Katsuwonus pelamis	Skipjack tuna	17,806	40,611	2.28
Thunnus albacares	Yellowfin tuna	1,556	3,675	2.36
Other scombrids				
Acanthocybium solandri	Wahoo	105	307	2.91
Gymnosarda unicolor	Dogtooth tuna	82	192	2.36
Billfishes				
Istiophoridae				
Istiophorus platypterus	Sailfish	32	63	2.00
Makaira mazara	Blue marlin	635	1,271	2.00
Other fishes				
Carangidae (jacks & trevallies)				
Carangidae (unspecified)	Jacks	23	58	2.50
Seriola dumerili	Greater amberjack	129	258	2.00
Elagatis bipinnulata	Rainbow runner	221	518	2.34
Coryphaenidae (mahimahi/dolphi				
Coryphaena hippurus, C.				
equiselis	Mahimahi	267	657	2.46
Holocentridae (squirrel & soldierf	ishes)			
Sargocentron spp., Neoniphon		20	105	2.25
spp.	Squirrelfishes	38	125	3.25
Lethrinidae (emperors)				
Lethrinidae (unspecified)	Emperors	315	793	2.52
Lutjanidae (snappers)	-			
Aphareus furca	Smalltooth jobfish	186	687	3.69
Aprion virescens	Jobfish (uku)	10	33	3.25
Etelis carbunculus	Ehu (red snapper)	212	817	3.86
Etelis coruscans	Onaga (red snapper)	1,474	9,506	6.45
Pristipomoides auricilla	Kalikali (yellowtail)	202	545	2.70
Pristipomoides filamentosus	Opakapaka (pink snapper)	197	727	3.69
Pristipomoides zonatus	Gindai (flower snapper)	43	182	4.21
Mullidae (goatfishes)	11 /			
Mullidae (unspecified)	Goatfishes	307	957	3.12
Scaridae (parrotfishes)		507	,	5.12
Scaridae (unspecified)	Parrotfishes	702	2,167	3.09
Serranidae (groupers)	1 differisites	702	2,107	3.09
,	Graupara	26	1 // /	5.50
Serranidae (unspecified)	Groupers	26	144	5.50
Siganidae (rabbitfishes)	D 11 20 1	250	0.44	2.20
Siganidae (unspecified)	Rabbitfishes	278	941	3.39

B.27

Table B-8
CNMI July 2014 Estimated Commercial Landings

C	
CTOH	n

Subgroup		Lbs	Estimated	Price/
Scientific Name	Common/local name	Sold	Value	Lb
Other fishes (continued)				
Unspecified Fish Groups				
Carangidae, Lutjanidae,	Bottomfishes (unspecified)	435	1,492	3.43
Unknown	Pelagic fishes (unspecified)	103	267	2.59
Various (many) families	Reef fishes (unspecified)	2,953	7,574	2.56
Miscellaneous Seafood (insufficial	ent information)			
Unknown fish/invertebrates	Unknown	226	665	2.94
INVERTEBRATES:				
Mollusks				
Cephalopoda: Coleoidea, Decapodiformes	Squid	2	8	4.99
Invertebrates (unspecified)				
Unknown	Invertebrates (unspecified)	43	375	8.71
	Total	28,608	\$75,615	\$2.64

Table B-9
CNMI August 2014 Estimated Commercial Landings

Group	t 2014 Estimated Commerc	ciai Landi	ngs	
Subgroup		Lbs	Estimated	Price/
Scientific Name	Common/local name	Sold	Value	Lb
FISHES: Scombridae				
Tunas				
Euthynnus affinis	Kawakawa (saba)	37	92	2.50
Katsuwonus pelamis	Skipjack tuna	19,432	44,136	2.27
Thunnus albacares	Yellowfin tuna	1,705	4,452	2.61
Other scombrids		,	,	
Acanthocybium solandri	Wahoo	72	197	2.72
Gymnosarda unicolor	Dogtooth tuna	681	1,702	2.50
Other fishes			,	
Acanthuridae (Tangs, Surgeons, U	Jnicornfishes)			
Acanthurus, Ctenochaetus spp.	Surgeonfishes (unspecified)	48	155	3.25
Carangidae (jacks & trevallies)	8.1 (
Seriola dumerili	Greater amberjack	40	80	2.00
Elagatis bipinnulata	Rainbow runner	108	302	2.78
Coryphaenidae (mahimahi/dolphir				_,,,,
Coryphaena hippurus, C.	Mahimahi	9	18	2.00
Holocentridae (squirrel & soldierfi			10	2.00
Sargocentron, Neoniphon spp.	Squirrelfishes	97	315	3.25
Labridae (wrasses)	Squiremisies	71	313	3.23
Labridae (wasses) Labridae (unspecified)	Wrasses	31	100	3.25
Lethrinidae (emperors)	Widsses	31	100	3.23
Lethrinidae (unspecified)	Emperors	500	1,678	3.36
, ,	Emperors	300	1,078	3.30
Lutjanidae (snappers)	Consiliently in the	40	170	2.75
Aphareus furca	Smalltooth jobfish	48	179 685	3.75
Aprion virescens Etelis carbunculus	Jobfish (uku) Ehu (red snapper)	211 37	083 148	3.25 4.00
Etelis carvanculus Etelis coruscans	Onaga (red snapper)	232	1,510	6.50
Pristipomoides auricilla	Kalikali (yellowtail)	232	874	3.75
Pristipomoides filamentosus	Opakapaka (pink snapper)	373	1,492	4.00
Pristipomoides zonatus	Gindai (flower snapper)	126	599	4.75
Mullidae (goatfishes)	Gindar (no wer shapper)	120	3,,	1.75
Mullidae (unspecified)	Goatfishes	185	600	3.25
Scaridae (parrotfishes)	Goulliones	100	000	3.23
Scaridae (unspecified)	Parrotfishes	2,388	7,739	3.24
Serranidae (groupers)	1 differisites	2,500	1,137	3.2⊣
Serranidae (groupers) Serranidae (unspecified)	Groupers	157	863	5.50
(1 0 /	Groupers	137	803	3.30
Siganidae (rabbitfishes)	D 11:46 1	1.50	400	2.00
Siganidae (unspecified)	Rabbitfishes	150	488	3.09
Unspecified Fish Groups				
Carangidae, Lutjanidae,	Bottomfishes (unspecified)	1,209	4,232	3.50
Various (many) families	Reef fishes (unspecified)	2,746	7,127	2.60

Table B-9
CNMI August 2014 Estimated Commercial Landings

Group Subgroup Scientific Name	Common/local name	Lbs Sold	Estimated Value	Price/ Lb
Miscellaneous Seafood (insufficial	ent information)			
Unknown fish/invertebrates	Unknown	185	571	3.09
INVERTEBRATES:				
Invertebrates (unspecified)				
Unknown	Invertebrates (unspecified)	1,612	14,660	9.09
	Total	32,652	\$94,994	\$2.91

Table B-10 CNMI September 2014 Estimated Commercial Landings

Group Subgroup Scientific Name	Common/local name	Lbs Sold	Estimated Value	Price/ Lb
FISHES:				
Scombridae				
Tunas				
Katsuwonus pelamis	Skipjack tuna	12,489	27,797	2.23
Thunnus albacares	Yellowfin tuna	240	648	2.70
Other scombrids				
Acanthocybium solandri	Wahoo	30	74	2.46
Billfishes				
Istiophoridae				
Makaira mazara	Blue marlin	449	898	2.00
Other fishes				
Carangidae (jacks & trevallies)				
Elagatis bipinnulata	Rainbow runner	77	154	2.00
Coryphaenidae (mahimahi/dolphin				_,,,
Coryphaena hippurus, C.	Mahimahi	150	338	2.25
Holocentridae (squirrel & soldierfis		150	230	2.20
Sargocentron spp., Neoniphon spp.	Squirrelfishes	51	165	3.25
Labridae (wrasses)	Squiremines	31	103	3.23
Labridae (wrasses) Labridae (unspecified)	Wrasses	46	138	3.00
Lutjanidae (snappers)	Widses	70	130	5.00
Aphareus furca	Smalltooth jobfish	200	750	3.75
Aprion virescens	Jobfish (uku)	200	68	3.73
Pristipomoides filamentosus	Opakapaka (pink snapper)	93	372	4.00
Mullidae (goatfishes)	орикирики (рик зниррег)	,,	372	1.00
Mullidae (unspecified)	Goatfishes	545	1,428	2.62
Scaridae (parrotfishes)	Goathshes	575	1,420	2.02
Scaridae (unspecified)	Parrotfishes	540	1,734	3.21
Serranidae (groupers)	1 arrothshes	340	1,734	3.21
Serranidae (unspecified)	Groupers	42	125	3.00
, -	Groupers	42	123	3.00
Siganidae (rabbitfishes)	Dahhitfishas	212	780	3.69
Siganidae (unspecified)	Rabbitfishes	212	780	3.09
Unspecified Fish Groups Carangidae, Lutjanidae,	D. 44 - 11 (C. 1 - 1 (C. 1)	224	1 160	2.50
	Bottomfishes (unspecified) Reef fishes (unspecified)	334	1,168	3.50
Various (many) families	` - /	1,442	3,679	2.55
Miscellaneous Seafood (insufficient	,	240	722	2.00
Unknown fish/invertebrates	Unknown	249	723	2.90
INVERTEBRATES:				
Crustaceans: Lobsters				
Panulirus spp. (any of several)	Spiny lobster	365	4,202	11.50
	Total	17,575	\$45,241	\$2.57

Table B-11 CNMI October 2014 Estimated Commercial Landings

Group				
Subgroup		Lbs	Estimated	Price/
Scientific Name	Common/local name	Sold	Value	Lb
FISHES:				
Scombridae				
Tunas				
Euthynnus affinis	Kawakawa (saba)	105	209	2.00
Katsuwonus pelamis	Skipjack tuna	17,505	41,432	2.37
Thunnus albacares	Yellowfin tuna	995	2,303	2.32
Other scombrids				
Acanthocybium solandri	Wahoo	30	91	3.00
Gymnosarda unicolor	Dogtooth tuna	300	750	2.50
Other fishes				
Acanthuridae (Tangs, Surgeons, U	Jnicornfishes)			
Naso spp.	Unicornfishes (unspecified)	143	465	3.25
Carangidae (jacks & trevallies)	• •			
Elagatis bipinnulata	Rainbow runner	68	189	2.80
Coryphaenidae (mahimahi/dolphin				
Coryphaena hippurus, C.	Mahimahi	388	1,087	2.80
Holocentridae (squirrel & soldierfi		500	1,007	2.00
Sargocentron spp., Neoniphon	Squirrelfishes	77	250	3.25
Lethrinidae (emperors)	Squittemsnes	, ,	250	3.23
Lethrinidae (unspecified)	Emperors	89	301	3.37
, ,	Emperors	07	301	3.37
Lutjanidae (snappers)	C	1.0	(0	2.75
Aphareus furca	Smalltooth jobfish	18	69	3.75
Aprion virescens Etelis carbunculus	Jobfish (uku)	1,088	3,538	3.25
Etelis carounculus Etelis coruscans	Ehu (red snapper) Onaga (red snapper)	25 1,227	102 7,921	4.00 6.46
Pristipomoides filamentosus	Opakapaka (pink snapper)	431	1,723	4.00
Mullidae (goatfishes)	Оракарака (ршк знаррег)	431	1,723	4.00
· ·	Goatfishes	460	1 444	2.00
Mullidae (unspecified)	Goathsnes	469	1,444	3.08
Scaridae (parrotfishes)	D	222	7 00	2 00
Scaridae (unspecified)	Parrotfishes	233	700	3.00
Unspecified Fish Groups	D - 11 - 11 (- 11 - 1 (- 11)	1 101	2 000	2.45
Carangidae, Lutjanidae,	Bottomfishes (unspecified)	1,101	3,800	3.45
Various (many) families	Reef fishes (unspecified)	342	856	2.50
Miscellaneous Seafood (insufficien	-	1 1/	462	2 17
Unknown fish/invertebrates	Unknown	146	463	3.17
	Total	24 700	¢(7 (02	e2 72
	Total	24,780	\$67,693	\$2.73

Table B-12 CNMI November 2014 Estimated Commercial Landings

Subgroup		Lbs	Estimated	Price/
Scientific Name	Common/local name	Sold	Value	Lb
ISHES:				
Scombridae				
Tunas				
Euthynnus affinis	Kawakawa (saba)	35	92	2.59
Katsuwonus pelamis	Skipjack tuna	6,418	16,007	2.49
Thunnus albacares	Yellowfin tuna	1,084	2,433	2.24
Other scombrids				
Acanthocybium solandri	Wahoo	177	527	2.98
Other fishes				
Acanthuridae (Tangs, Surgeons,	Unicornfishes)			
Naso spp.	Unicornfishes (unspecified)	77	250	3.2
Carangidae (jacks & trevallies)				
Seriola dumerili	Greater amberjack	35	71	2.0
Elagatis bipinnulata	Rainbow runner	37	110	3.0
Coryphaenidae (mahimahi/dolph	infish)			
Coryphaena hippurus, C. equiselis	Mahimahi	835	2,247	2.6
Holocentridae (squirrel & soldier	fishes)			
Sargocentron, Neoniphon spp.	Squirrelfishes	35	115	3.2
Lethrinidae (emperors)	Squiii viii sii v		110	J
Lethrinidae (unspecified)	Emperors	43	151	3.5
Lutjanidae (snappers)	Emperors	13	131	3.5
Aphareus furca	Smalltooth jobfish	142	534	3.7
Aprion virescens	Jobfish (uku)	287	970	3.7
Etelis carbunculus	Ehu (red snapper)	74	295	4.0
Etelis coruscans	Onaga (red snapper)	1,768	11,264	6.3
Pristipomoides auricilla	Kalikali (yellowtail)	22	81	3.7
Pristipomoides filamentosus	Opakapaka (pink snapper)	220	880	4.0
Mullidae (goatfishes)	1 1 4 11 /			
Mullidae (unspecified)	Goatfishes	329	955	2.9
Scaridae (parrotfishes)				
Scaridae (unspecified)	Parrotfishes	193	586	3.0
Serranidae (groupers)	1 411 0 111 511 61	1,0	200	5.0
Serranidae (unspecified)	Groupers	11	59	5.5
Siganidae (rabbitfishes)	Groupers	11	3)	5.5
Siganidae (unspecified)	Rabbitfishes	66	215	3.2
	Naudittistics	00	213	3.2
Unspecified Fish Groups	Datter Calcar (CC 1)	C 40	2 2 4 0	2.5
Carangidae, Lutjanidae,	Bottomfishes (unspecified)	642	2,248	3.5
Various (many) families	Reef fishes (unspecified)	935	2,606	2.7

Table B-12 CNMI November 2014 Estimated Commercial Landings

Group Subgroup Lbs **Estimated** Price/ Scientific Name Common/local name Sold Value Lb Miscellaneous Seafood (insufficient information) Unknown fish/invertebrates Unknown 167 488 2.92 Total \$3.17 13,632 \$43,184

Table B-13 CNMI December 2014 Estimated Commercial Landings

Subgroup Scientific Name	Common/local name	Lbs Sold	Estimated Value	Price/ Lb
TISHES:				
Scombridae				
Tunas				
Katsuwonus pelamis	Skipjack tuna	6,438	16,197	2.5
Thunnus albacares	Yellowfin tuna	475	1,076	2.2
Other scombrids				
Gymnosarda unicolor	Dogtooth tuna	417	1,125	2.7
Other fishes	-			
Acanthuridae (Tangs, Surgeons, V	Unicornfishes)			
Naso spp.	Unicornfishes (unspecified)	185	579	3.1
Coryphaenidae (mahimahi/dolphi	· -			
Coryphaena hippurus, C.	Mahimahi	1,095	2,777	2.5
Lethrinidae (emperors)	TVIAITITATII	1,000	2,777	2.0
Lethrinidae (unspecified)	Emperors	134	335	2.5
Lutjanidae (snappers)	Emperors	131	333	2.3
Aphareus furca	Smalltooth jobfish	615	2,305	3.7
Aprion virescens	Jobfish (uku)	34	68	2.0
Etelis carbunculus	Ehu (red snapper)	14	55	4.0
Etelis coruscans	Onaga (red snapper)	2,439	15,491	6.3
Pristipomoides filamentosus	Opakapaka (pink snapper)	114	455	4.0
Pristipomoides zonatus	Gindai (flower snapper)	14	58	4.1
Mullidae (goatfishes)				
Mullidae (unspecified)	Goatfishes	466	1,280	2.7
Scaridae (parrotfishes)			,	
Scaridae (unspecified)	Parrotfishes	475	1,397	2.9
Siganidae (rabbitfishes)	1 411 0 111 511 61	.,,	1,25,	,
Siganidae (unspecified)	Rabbitfishes	215	650	3.0
Unspecified Fish Groups	Rubbitishes	213	050	3.0
Carangidae, Lutjanidae,				
Lethrinidae & Serranidae	Bottomfishes (unspecified)	1,258	4,405	3.5
Unknown	Pelagic fishes (unspecified)	35	88	2.5
Various (many) families	Reef fishes (unspecified)	2,042	5,131	2.5
Miscellaneous Seafood (insufficie	ent information)			
Unknown fish/invertebrates	Miscellaneous (unspecified)	69	173	2.5
Unknown fish/invertebrates	Unknown	269	725	2.6
INVERTEBRATES:				
Mollusks				
Octopus spp.	Octopus	2	6	3.9
	Total	16,805	\$54,376	\$3.2

The following are summary charts of the major species and species groups by month:

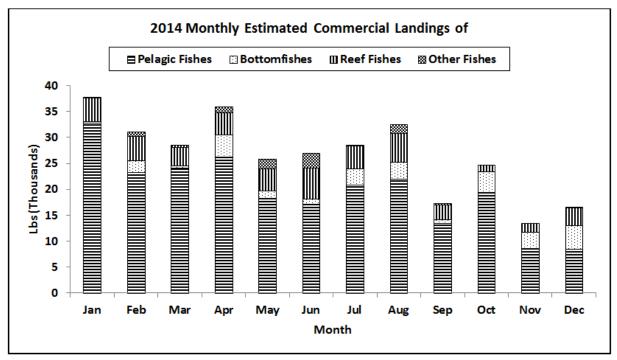


Figure B-1-1

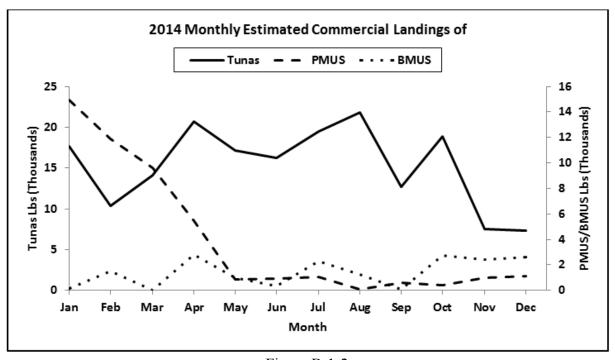


Figure B-1-2

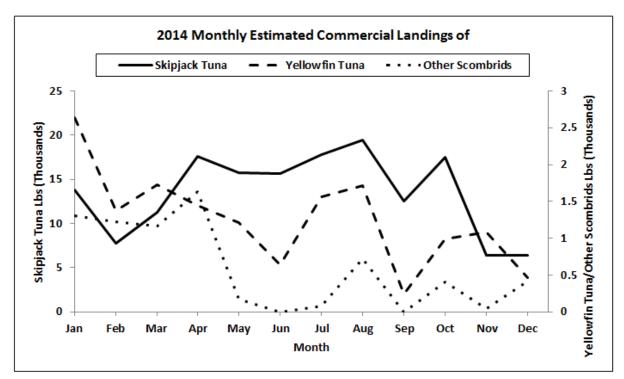


Figure B-1-3

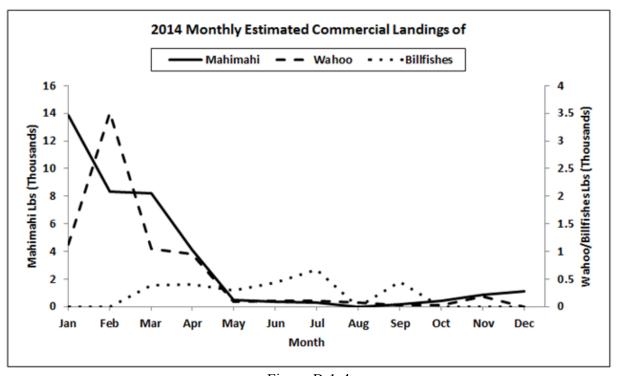


Figure B-1-4

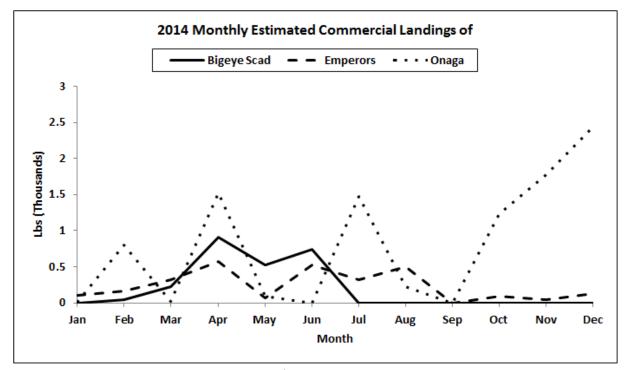


Figure B-1-5

The following are seasonality plots for the major species or species groups, showing the average weight landed during each month for all years combined:

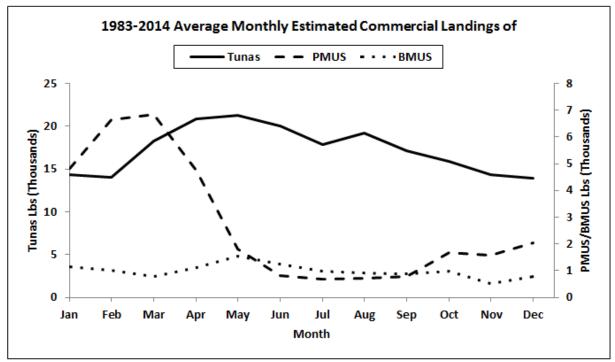


Figure B-2-1

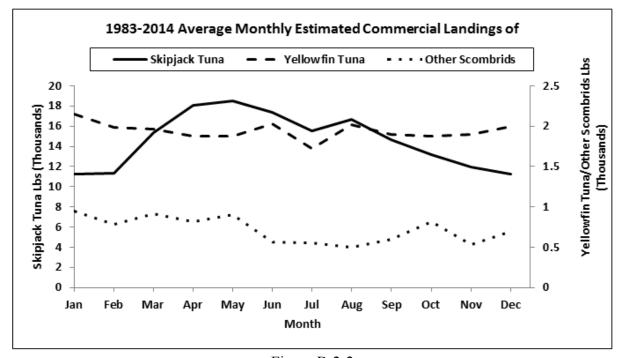


Figure B-2-2

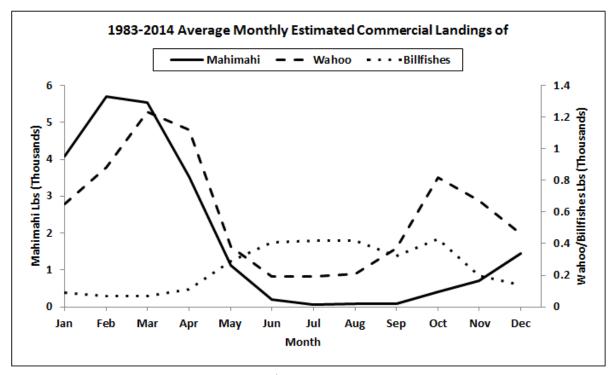


Figure B-2-3

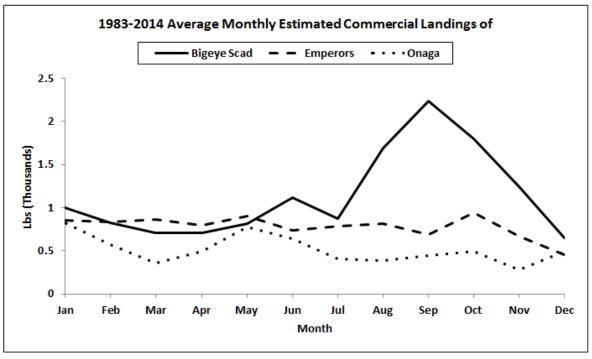


Figure B-2-4

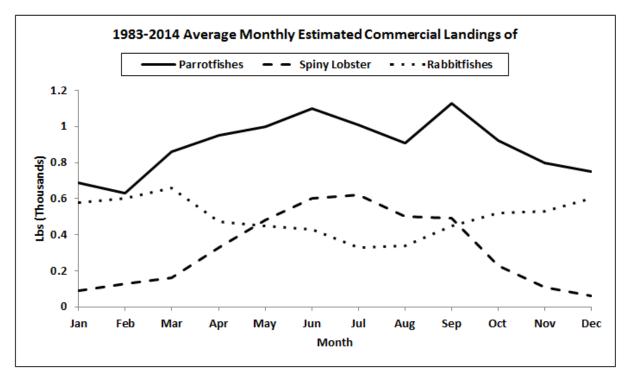


Figure B-2-5

The following graphs plot annual summary statistics to illustrate inter-annual variability:

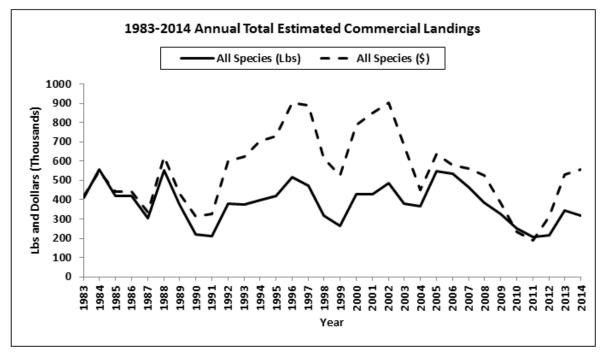


Figure B-3-1

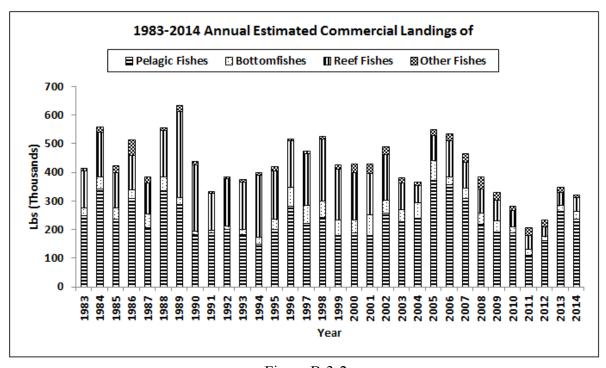


Figure B-3-2

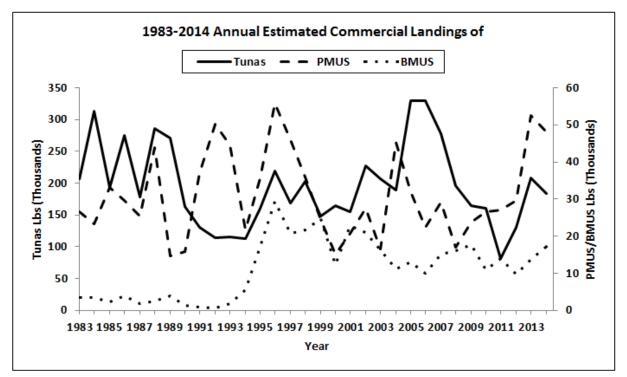


Figure B-3-3

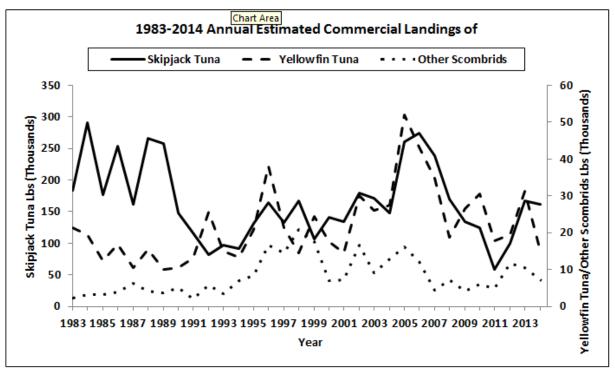


Figure B-3-4

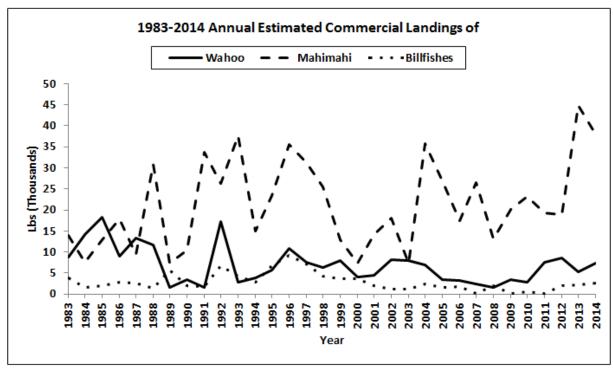


Figure B-3-5

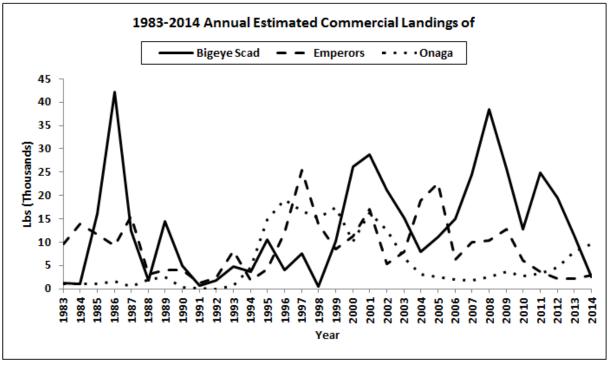


Figure B-3-6

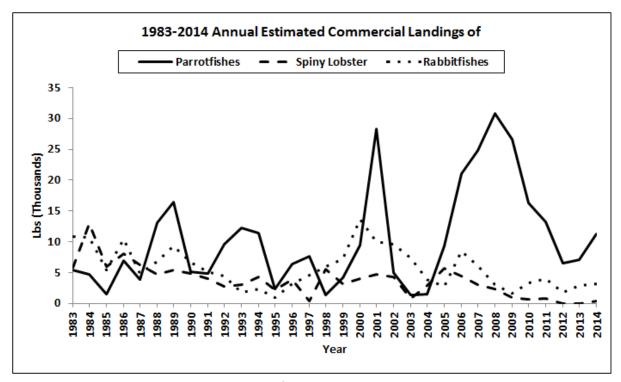


Figure B-3-7

The following graphs plot the monthly landings of some of the major commercially important species and document monthly fluctuations in landings of these species over the time series:

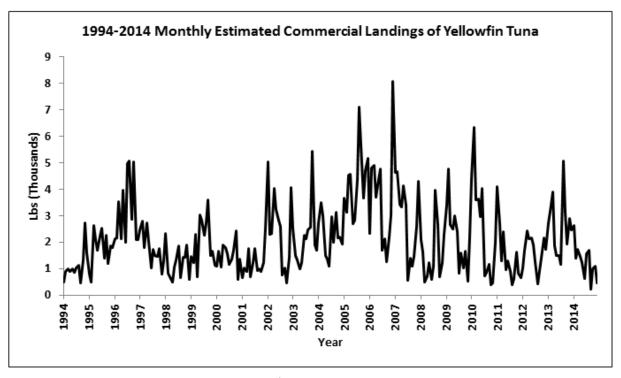


Figure B-4-1

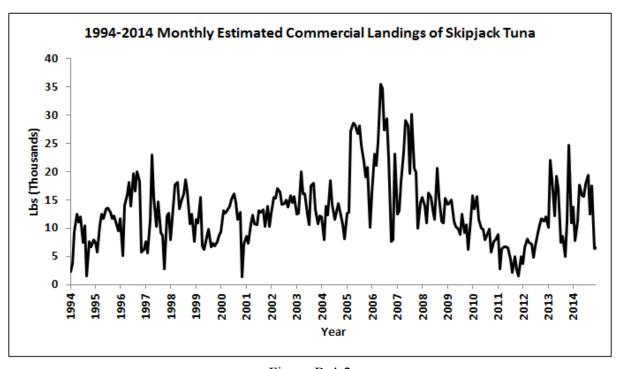


Figure B-4-2

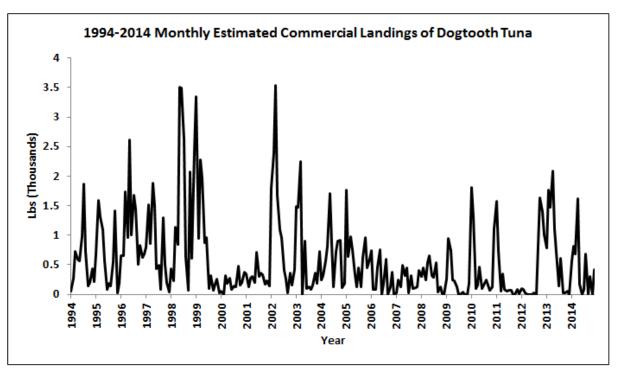


Figure B-4-3

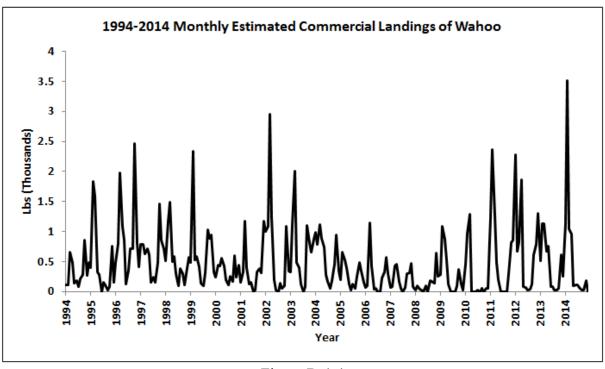


Figure B-4-4

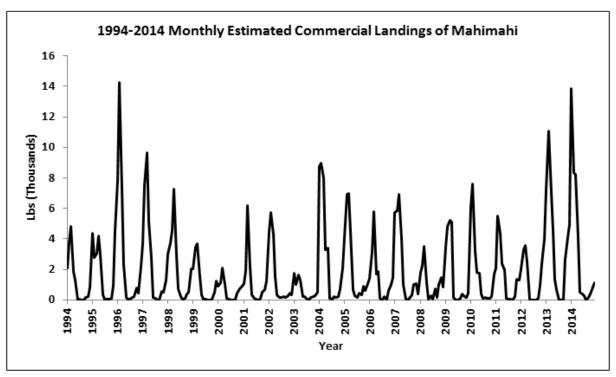


Figure B-4-5

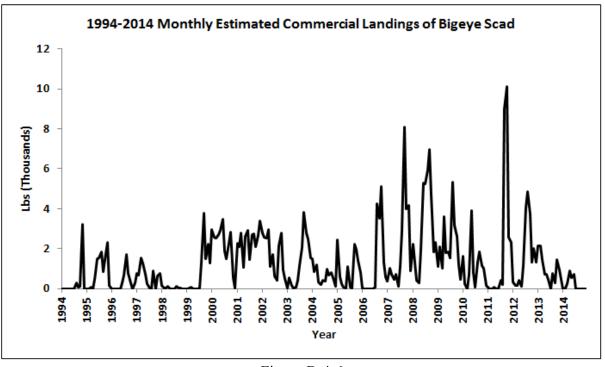


Figure B-4-6

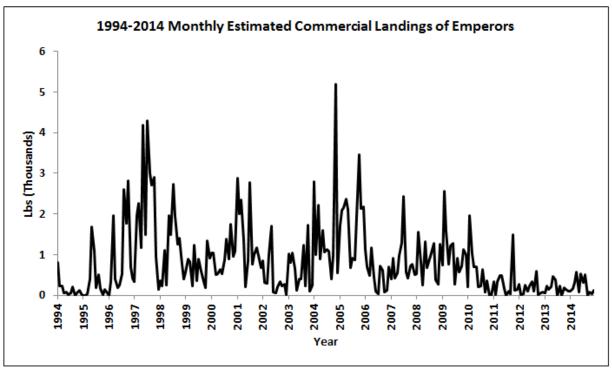


Figure B-4-7

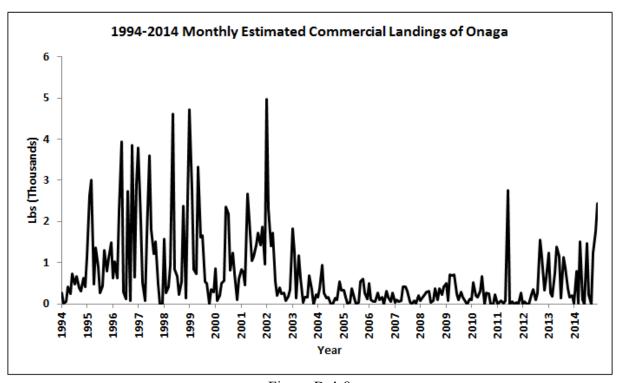


Figure B-4-8

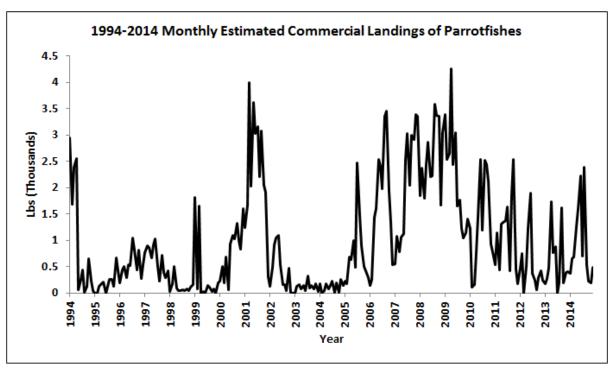


Figure B-4-9

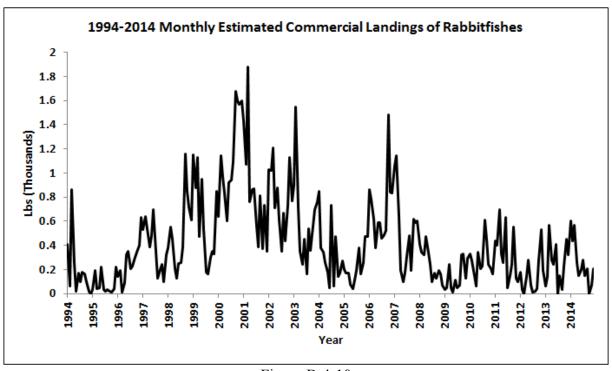


Figure B-4-10

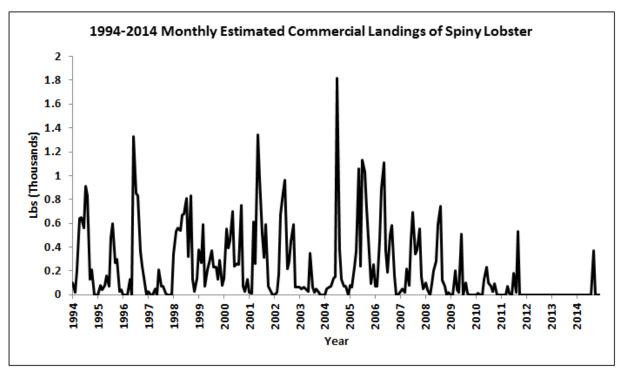


Figure B-4-11

GUAM 2014 FISHERY STATISTICS

Compiled by

Guam, Department of Agriculture,

Division of Aquatic and Wildlife Resources

and the

Western Pacific Fishery Information Network

CONTENTS

Introduction	Page C.1
Data Collection	C.2
Data Processing	C.6
Data Reporting	C.6
Species Categories	C.7
Tables	C.12
Figures	C.36

C.iv

LIST OF GUAM 2014 SUMMARY TABLES

Tables		Page
C-1	Annual Estimated Commercial Landings	C.12
C-2	January Estimated Commercial Landings	C.14
C-3	February Estimated Commercial Landings	C.15
C-4	March Estimated Commercial Landings	C.16
C-5	April Estimated Commercial Landings	C.18
C-6	May Estimated Commercial Landings	C.20
C-7	June Estimated Commercial Landings	C.22
C-8	July Estimated Commercial Landings	C.24
C-9	August Estimated Commercial Landings	C.26
C-10	September Estimated Commercial Landings	C.28
C-11	October Estimated Commercial Landings	C.30
C-12	November Estimated Commercial Landings	C.32
C-13	December Estimated Commercial Landings	C.34

C.v

LIST OF GUAM FIGURES

Figures		<u>Page</u>
2014 M	onthly Estimated Commercial Landings	
C-1-1	Pelagic Fishes, Bottomfishes, Reef Fishes, and Other Fishes	C.36
C-1-2	Tunas, PMUS, and BMUS	C.36
C-1-3	Skipjack, Yellowfin Tuna, and Other Scombrids	C.37
C-1-4	Wahoo, Mahimahi, and Billfishes	C.37
C-1-5	Onaga and Bigeye Scad	C.38
1980-20	014 Average Monthly Estimated Commercial Landings	
C-2-1	Tunas, PMUS, and BMUS	C.39
C-2-2	Skipjack, Yellowfin Tuna, and Other Scombrids	C.39
C-2-3	Wahoo, Mahimahi, and Marlins	C.40
C-2-4	Reef Fishes (Misc.) and Bottomfishes (Misc.)	C.40
C-2-5	Onaga and Bigeye Scad	C.41
1980-20	014 Annual Total Estimated Commercial Landings	
C-3-1	All Species (Pounds) and All Species (Dollars)	C.42
C-3-2	Pelagic Fishes, Bottomfishes, Reef Fishes, and Other Fishes	C.42
C-3-3	Tunas, PMUS, and BMUS	C.43
C-3-4	Skipjack, Yellowfin, and Other Scombrids	C.43
C-3-5	Wahoo, Mahimahi, and Billfishes	C.44
C-3-6	Reef Fishes (Misc.) and Bottomfishes (Misc.)	C.44
C-3-7	Onaga and Bigeye Scad	C.45
1980-20	014 Monthly Estimated Commercial Landings	
C-4-1	Skipjack Tuna	C.46
C-4-2	Yellowfin Tuna	C.46
C-4-3	Dogtooth Tuna	C.47
C-4-4	Wahoo	C.47
C-4-5	Mahimahi	C.48
C-4-6	Marlin	C.48
C-4-7	Bottomfishes (Misc.)	C.49
C-4-8	Reef Fishes (Misc.)	C.49
C-4-9	Onaga	C.50
C-4-10	Bigeye Scad	C.50

(This page is intentionally left blank.)

GUAM 2014 FISHERY STATISTICS

INTRODUCTION

The Territory of Guam is made up of the southernmost, largest, and most populous island in the Mariana Archipelago and its surrounding banks, fringing and barrier reefs and islets.

Location: 13.3°N latitude, 144.5°E

longitude

Population: about 161,785 (*The World Factbook*, July 2015 estimate)

Economy: largely based on U.S. military and international tourism



Guam:

Source: https://www.cia.gov/library/publications/the-worldfactbook/maps/gq-map.gif; The World Factbook

Fishing activities on Guam are divided into two basic categories, offshore and inshore fishing. Offshore fishing typically involves small boats (12-48 ft in length), which engage in one-to-two-day trolling and bottomfishing trips to nearby banks, isles, and pelagic areas. These trips usually originate from one of three principal harbors (Hagåtña Boat Basin, Agat Marina or Merizo Pier), located on the west coast and southern tip of the island (leeward shores during the prevailing March-August trade winds). Inshore fishing is usually conducted without the use of a boat and consists mainly of shore casting (rod & reel fishing), throw-netting, and spearfishing.

Besides imports, there are three sources of fish in Guam's commercial markets: 1) full-time commercial fishers, 2) part-time commercial fishers, and 3) subsistence or recreational "expense fishers" who sell part of their catch to help defray costs. A license is not required to sell fish on Guam, nor are there any reporting requirements for those who sell fish to the markets.

DATA COLLECTION

The Guam Department of Agriculture, Division of Aquatic and Wildlife Resources (DAWR) fisheries monitoring has evolved considerably over the past 30 years. In 1982, WPacFIN began working with DAWR and local fish dealers to obtain information on commercial landings through voluntary use of a fish receipt form. DAWR has also implemented boat-based and shore-based creel surveys over the years. Although the creel survey field work is funded through the US Fish and Wildlife Service's Federal Aid in Sportfish Restoration Program, data entry and data processing activities are supported by WPacFIN in several forms, including software development, hands-on assistance with computer networking technology, and staffing for data entry and quality control. To put Guam's historical landings data into perspective, DAWR also collaborates with WPacFIN to conduct comparisons between commercial landings estimates based solely on market data, and creel survey estimates of total landings, which include both the commercial and non-commercial sectors.

DAWR has the following major data collection programs in place:

- 1. Commercial Purchase Program a voluntary purchase receipt program for fish businesses (receipt forms, data collection and data entry support provided by WPacFIN).
- 2. Boat-based Creel Survey Program (field work mainly conducted by DAWR staff) access-point creel surveys at boat ramps and known fishing areas across the island.
- 3. Shore-based Creel Survey Program roving creel surveys along the shoreline, including aerial surveys (also by DAWR staff).

Commercial Purchase Program – In 1982, DAWR and local fish dealers began to obtain information on commercial landings through voluntary use of a fish receipt form provided by WPacFIN. This form has been referred to as a "trip ticket", because it generally represents the catch delivered to a vendor from one fishing trip. Although there is no requirement that fishermen sell to only one vendor, the existence of a major fishing cooperative on Guam, with an excellent relationship amongst its members, provides a fairly stable and reliable trip-level reporting basis for many members of the fishing community.

In July 1979, the Guam Fishermen's Cooperative Association (GFCA) was established through government funding. It is located in Hagåtña (Agana). The GFCA subsequently became the central distribution center for fresh local fish. Prior to 1979, there was no central place to sell fish, and fishers had to develop their own markets and peddle fish after each trip. In 1982, WPacFIN began working with GFCA to improve their invoicing system and obtain data on all fish purchases. A system was established, whereby GFCA would use forms and coding schemes designed by WPacFIN, and supply copies of all invoices to WPacFIN for data entry. In return, WPacFIN would provide GFCA with document quality control and computer-generated summary statistics. At that time, historical purchase data through July 1979 were also entered into a database.

Over time, other fish markets began to operate, and DAWR and WPacFIN have continued to work with them to obtain data through the voluntary receipt book program. The tables and graphs in this section are based on data summarized from receipts submitted by all participating fish dealers on Guam. The values recorded have been adjusted to create an estimate of total

commercial landings, based on an annually-estimated proportion of the local commercial market represented in voluntary monitoring data.

Data collected on commercial receipt forms include:

- Date of sale
- Number of Fishermen
- Area Fished
- Number Caught by Species

- Fisherman Code (primary seller)
- Hours Fished
- Pounds Caught by Species
- Price per Pound by Species

Although a proposed law has been introduced several times over the years that would require reporting by dealers, and possibly commercial fishers, the proposal has never made it through the legislative process. Therefore, commercial fisheries landings data collection on Guam remains voluntary.

Boat-based Creel Survey Program – In the late 1970s, a boat-based creel survey sampling program was implemented on Guam to provide statistics on all boat-based fishing activity, including non-commercial trips. The details of the Guam boat-based fishery sampling program have changed over the years to accommodate changes in the fisheries, but it has remained a trip-based, stratified sampling program. During analysis, data are stratified by fishing method, type of day (weekday vs. weekend/holiday), port, and charter (versus non-charter) status.

DAWR staff normally samples on four weekdays and four weekend/holidays per month, covering the three main ports: Agana Boat Basin, Agat Marina, and Merizo Pier. During survey days, all departing and returning fishing boats are registered, and interviews are attempted with each returning vessel. On two additional weekdays and weekend/holidays per month, staff counts boat trailers across the island as part of the boat-based participation count, while also compiling gear counts by fishing area for the shore-based participation survey. This serves to estimate the amount of boat-based fishing occurring outside the three main ports. It is assumed that catch rates from boats launched at these less-sampled areas are similar to those surveyed at the three main ports, where interviews are conducted regularly. Furthermore, fishers that are interviewed are assumed to be representative of the entire fishing population and to provide accurate information

Vessels out fishing are detected either by the presence of a boat trailer near a launch area or the absence of a known boat at its designated berth. Unless contrary information is available from knowledgeable persons interviewed along the docks or in the local community, all such boats are assumed to be out fishing. The following participation information is recorded for all boats, including those engaging in non-fishing activity:

- Survey date
- Location
- Type of day
- Departure time
- Return time
- Boat name or number

- Whether the boat will be fishing
- Whether the trip is chartered
- Type of activity (i.e. fishing method for fishing trips)
- Towing vehicle license number

The remaining data elements, listed below, are collected from each returning vessel if an interview can be successfully completed:

- Interview date and time *
- Type of day *
- Location *
- Boat name or number
- Whether the trip is chartered *
- Whether the boat has a berth
- Towing vehicle license number
- Fishing method *
- Number of gears
- Hours fished
- Area fished

- Number of people and guests on board
- Weather
- Species caught *, with the following information for each species
 - Individual lengths *
 - o Individual weights
 - Number caught *
 - o Total weight *
- Disposition of fish landed
- Any bycatch

It is not always possible to obtain information on all the items listed. However, the ones marked with an asterisk (*) are considered essential for data expansion purposes. Identification and weight of each species are often not obtainable. Only if a species identification cannot be made, a code for species groupings (e.g., family level codes) can be used.

Boat log data and island-wide trailer counts are expanded to estimate the total number of fishing trips on Guam, and interview data are used to compute the average catch per trip. This is done separately for each analysis stratum. Multiplying the estimated trips by the average catch per trip, and summing these over all the analysis strata, provides an estimate of the total catch on Guam.

Shore-based Creel Survey Program – Around 1985, a shore-based creel survey sampling program was implemented on Guam to provide statistics on all shore-based fishing, including non-commercial activity. The details of the shore-based fishery sampling program have changed over the years to accommodate changes in the fisheries. But it has remained an hourly CPUE-based stratified random sampling program. During analysis, data are stratified by fishing method, type of day, region, and time of day.

The shore-based creel survey includes separate sampling days to gather fishing participation data and interviews ("survey type"). In addition to participation surveys conducted from a car or truck, supplemental aerial surveys are conducted once a month to gather participation data for areas that are difficult to access by road. The aerial flight path covers almost the entire perimeter of Guam. DAWR staff normally conducts two weekday- and two weekend/holiday-surveys per month of each type (participation or interview). Aerial participation surveys are conducted on one weekday and one weekend/holiday per month. On participation survey days, staff drives along a designated route and records all fishing activity they see. Any activity that involves a motorized vessel is not included in shore-based participation counts, unless the vessel: 1) is used primarily for transporting such items as gill nets, surround nets, and drag nets to a shoreline fishing spot, and 2) was launched from a beach, not a boat ramp. Aerial participation counts are based on similar criteria, in order to distinguish fishing activity that is truly shore-based and avoid double counting fishing trips covered by the boat-based survey. On interview survey

days, staff drives along a designated route and attempts to interview all fishermen that are encountered. Fishers that are interviewed are assumed to be representative of the entire fishing population and to provide accurate information. It is also assumed that catch rates in the areas not covered by the interview surveys are similar to those in the sampled areas.

During participation surveys, the following information is recorded:

- Survey date
- Type of day
- Shift time
- Observation time
- Location

- Number of fishers
- Number of gears
- Fishing method
- Reef zone
- Weather

During interviews, the following information is recorded:

- Interview date and time
- Type of day
- Number of fishermen
- Fishing start and stop time
- Fishing method
- Number of gears
- Location
- Reef zone
- Proportion of catch to be sold

- Weather
- Species caught, with the following information for each species:
 - o Individual lengths
 - o Individual weights
 - o Number caught
 - o Total weight
- Any bycatch

During aerial surveys, the following information is recorded:

- Survey date
- Type of day
- Start and stop time
- Observation time
- Location
- Number of fishers

- Number of gears
- Fishing method
- Reef zone
- Large marine animal observed
- Number of animals
- Weather

If time does not allow for the length and weight of each fish to be measured, weights can be skipped and estimated using length measurements. Only if a species identification cannot be made, a code for species groupings (e.g., family level codes) may be used.

Participation and aerial data are expanded to estimate the total gear-hours of shore-based fishing activity on Guam, and interview data are used to estimate the average catch per gear-hour. This is done separately for each analysis stratum. Multiplying the estimated gear-hours by the average catch per gear-hour, and summing over all the analysis strata, provides an estimate of the total catch on Guam.

DATA PROCESSING

Initially, in the early 1980s to the mid-1990s, Guam fisheries monitoring data were processed at the PIFSC WPacFIN central office in Honolulu. Since 1994, DAWR has taken over this task, leveraging IT support, software and data entry funding from WPacFIN. The processing system for commercial landings data collected from fish dealers is fairly simple. Dealers complete a purchase form whenever they purchase fish directly from a fisherman. The form helps categorize the catch, and records the weight and sales value by species or major group. When possible, the number of fish or invertebrates purchased is also recorded by species or group.

DATA REPORTING

Once data entry is completed, WPacFIN software assists with editing, quality control, and weight adjustment for factors such as condition of sale (e.g., gilled/gutted weights converted to whole weight, etc.). The software also generates monthly and annual summary reports by species, based on the estimated percentage of commercial sales registered on a monthly basis. WPacFIN customized software creates various standardized reports, which assist DAWR and WPacFIN staff with quality control and automated summary reporting to clients, such as the Council, fish dealers and the public.

Please note that the commercial landings data have been adjusted to reflect an estimated 100% of commercial landings, based on the proportion of commercial vendors and landings data available via Guam's voluntary monitoring system. The adjusted totals are referenced as "Estimated Commercial Landings" in the charts and tables. Only non-confidential estimates of monthly and annual commercial landings by species are provided in this document. Confidential data reported voluntarily remain the property of WPacFIN partners, including individual vendors and the GFCA.

Each table contains the common name, estimated weight (in pounds), estimated value (in dollars), and the average price per pound by species or group. The monthly tables contain estimated subtotals for each species. The annual table contains the estimated total commercial landings for each species for the calendar year. Graphs of statistics for some of the more important commercial species or groups are also provided. To see the most current charts and estimates, please visit the WPacFIN website (https://www.pifsc.noaa.gov/wpacfin).

SPECIES CATEGORIES

The species and taxonomic groups used in the tables and graphs for Guam are defined in this section. Many of these species and groups have been placed into different management categories over the years. For example, in 1992, the Magnuson Fishery Conservation and Management Act of 1976, was amended to include tunas in the Pelagic Management Unit Species (PMUS). However, in order to make comparison across these reports more intuitive, this summary maintains the original species categories from previous FSWP volumes. As such, tunas are kept in a separate category. To see the most current taxonomic information and groupings for species caught commercially in Guam, and in other US-associated Pacific island areas, please visit the WPacFIN website (https://www.pifsc.noaa.gov/wpacfin).

I. Pelagic Management Unit Species (PMUS)

Mahimahi (Coryphaena hippurus)

Marlins (Makaira mazara, Kajikia audax, Istiompax indica)

Sailfish (Istiophorus platypterus)

Sharks (Isurus oxyrinchus, Isurus paucus, and Carcharhinus spp.)

Spearfish (Tetrapturus angustirostris)

Swordfish (Xiphias gladius)

Wahoo (Acanthocybium solandri)

II. Bottomfish Management Unit Species (BMUS)

Alfonsin (Beryx decadactylus)

Amberjack (Seriola dumerili)

Black jack (Caranx lugubris)

Ehu/Red snapper (Etelis carbunculus)

Gindai/Flower snapper (Pristipomoides zonatus)

Groupers (various Serranidae)

Jacks (various Carangidae)

Kalikali/Pink snapper (Pristipomoides sieboldii¹)

Lehi/Silverjaw (Aphareus rutilans)

Mafute/Emperor (various Lethrinidae)

Onaga/Red snapper (Etelis coruscans)

Opakapaka/Pink snapper (Pristipomoides filamentosus)

Snappers (most Etelinae, some *Lutjanus* spp.)

Uku/Gray snapper (Aprion virescens)

III. Tunas

Kawakawa (Euthynnus affinis)

Skipjack tuna (Katsuwonus pelamis)

Tunas (unspecified)²

Yellowfin tuna (Thunnus albacares)

IV. Other Scombrids

Dogtooth tuna (Gymnosarda unicolor)

(See footnote 2)

Section C: Guam

¹ Please note that in the CNMI, the kalikali is typically the "yellowtail Kalikali," *Pristipomoides auricilla*, but on Guam this market category refers to the "pink Kalikali," *Pristipomoides sieboldii*. This is one of the reasons scientific names are provided as a reference for common names used for each island area throughout this report.

² This group includes species that comprise a very small portion of the catch, unidentified tunas, and apparent misidentifications. Because of the small amount of catch, and the tendency of vendors to throw in the dogtooth tuna with this group (although it is not actually a tuna), this group is combined with "other scombrids" in some of the charts

V. Fisheries Categories

A. Pelagic Fishes

Barracudas up to 7 species (Sphyraena spp.)

Sailfish (Istiophorus platypterus)

Dogtooth tuna (Gymnosarda unicolor) Sharks (Isurus oxyrinchus, Isurus paucus, and various Carcharhinus spp.)

Kawakawa (Euthynnus affinis)

Mahimahi (Coryphaena hippurus)

Skipjack tuna (Katsuwonus pelamis)

Spearfish (Tetrapturus angustirostris)

Marlins (Makaira mazara, Kajikia audax, Istiompax indica) Swordfish (Xiphias gladius)

Monchong (Taractichthys steindachneri)

Tunas/Unspecified (see footnote 2)

Pelagic fishes (unspecified)³ Wahoo (Acanthocybium solandri)

Rainbow runner (*Elagatis bipinnulata*)

Yellowfin tuna (*Thunnus albacares*)

B. Bottomfishes

Alfonsin (Beryx decadactylus)

Jacks/Unspecified (various Carangidae)

Amberjack (Seriola dumerili) Kalikali/Pink snapper (Pristipomoides sieboldii)

Black jack (Caranx lugubris)

Bottomfishes (unspecified)⁴

Deep bottomfishes (unspecified)⁵

Lehi/Silverjaw (Aphareus rutilans)

Mafute/Emperor (various Lethrinidae)

Onaga/Red snapper (Etelis coruscans)

Ehu/Red snapper (Etelis carbunculus)

Opakapaka/Pink snapper (Pristipomoides filamentosus)

Toggf (Pod snapper (Etelis carp. Pristipomoides filamentosus)

Gindai/Flower snapper (Pristipomoides zonatus) Tagafi/Red snapper (Etelis spp. Pristipomoides spp.)

Groupers/Unspecified (various Serranidae) Uku/Gray snapper (Aprion virescens)

C. Reef Fishes

Goatfishes (various Mullidae) Snappers (*Lutjanus* spp.⁶)

³ May include any of the members of the larger group, which the vendor weighed as a lot to save time.

⁴ May include various deep bottom snappers (most Etelinae, some *Lutjanus* spp. listed above), groupers (Serranidae), emperors (Lethridae), deep jacks and trevallies (Carangidae).

⁵ Another catch all group, not necessarily distinct from "Bottomfishes."

Humphead parrotfish (Bolbometopon muricatum)

Napoleon wrasse (Cheilinus undulatus)

Parrotfishes (various Scaridae)

Rabbitfishes (Siganus spp.)

Reef fishes/Unspecified (diverse fish taxa)

Rudderfish/Guilli (Kyphosus spp.)

D. Other Fishes, Algae & Invertebrates

Bigeye scad/Atulai (Selar crumenophthalmus) Lobsters (various Scyllaridae & Palinuridae)

Milkfish (Chanos chanos)

Squirrelfishes (Sargocentron spp., Neoniphon spp.)

Surgeonfishes (various Acanthuridae)

Sweetlips (various Haemulidae)

Unicornfishes (various Naso spp.)

Wrasses (various Labridae)

Mullets (various Mugilidae) Octopus (mainly *Octopus* spp.) Squid (various Teuthoidea)

⁶ Eteline snappers are found only in bottomfishing catch; inshore near reefs, they are mainly species of *Lutjanus*.

(This page is intentionally left blank.)

Table C-1 Guam Annual 2014 Estimated Commercial Landings

Group			В	
Subgroup Scientific Name	Common/local name	Lbs Sold	Estimated Value	Price/ Lb
FISHES:				
Scombridae				
Tunas				
Katsuwonus pelamis	Skipjack tuna	40,084	74,054	1.85
Thunnus albacares	Yellowfin tuna	7,983	18,029	2.26
Tribe Thunnini (unspecified)	Tunas	81	183	2.25
Other scombrids	*** 1	1.4.000	22 006	2.21
Acanthocybium solandri	Wahoo	14,282	32,986	2.31
Gymnosarda unicolor	Dogtooth tuna	1,271	2,291	1.80
Billfishes				
Istiophoridae				
Istiophorus platypterus	Sailfish	407	706	1.73
Makaira mazara, Makaira	Marlins (unspecified)	23,223	36,387	1.57
Tetrapturus angustirostris	Spearfish	28	42	1.50
Other fishes				
Acanthuridae (Tangs, Surgeons, U				
Acanthurus, Ctenochaetus spp.	Surgeonfishes (unspecified)	3,274	10,111	3.09
Naso spp.	Unicornfishes (unspecified)	17,301	56,800	3.28
Carangidae (jacks & trevallies)				
Carangidae (unspecified)	Jacks	511	1,573	3.08
Seriola dumerili	Greater amberjack	66	203	3.06
Selar crumenopthalmus	Bigeye scad (atulai)	1,562	3,998	2.56
Elagatis bipinnulata	Rainbow runner	1,895	4,209	2.22
Coryphaenidae (mahimahi/dolphi				
Coryphaena hippurus, C.	Mahimahi	30,650	70,044	2.29
Holocentridae (squirrel & soldieri				
Sargocentron, Neoniphon spp.	Squirrelfishes	66	228	3.46
Kyphosidae (sea chubs)				
<i>Kyphosus</i> spp. (various)	Rudderfish (guilli)	51	165	3.25
Labridae (wrasses)				
Labridae (unspecified)	Wrasses	22	70	3.25
Lethrinidae (emperors)				
Lethrinidae (unspecified)	Mafute (emperor)	2,211	6,800	3.08
Lutjanidae (snappers)				
Aphareus rutilans	Lehi (silverjaw)	92	384	4.16
Aprion virescens	Uku (gray snapper)	174	531	3.06
Etelis carbunculus	Ehu (red snapper)	102	433	4.25
Etelis coruscans	Onaga (red snapper)	336	1,978	5.89
Lutjanidae (unspecified)	Snappers	112	380	3.40
Pristipomoides filamentosus	Opakapaka (pink snapper)	264	1,124	4.25
Pristipomoides sieboldii	Kalikali (pink snapper)	461	1,851	4.02
Pristipomoides zonatus	Gindai (flower snapper)	131	535	4.09

Table C-1 Guam Annual 2014 Estimated Commercial Landings

Group Subgroup				D • /
Scientific Name	Common/local name	Lbs Sold	Estimated Value	Price/ Lb
	Common/rocar name	Solu	varue	Lo
Other fishes (continued)				
Mugilidae (mullets)				
Mugilidae (unspecified)	Mullet	224	676	3.01
Mullidae (goatfishes)				
Mullidae (unspecified)	Goatfishes	818	2,610	3.19
Scaridae (parrotfishes)				
Scaridae (unspecified)	Parrotfishes	15,975	55,740	3.49
Serranidae (groupers)				
Serranidae (unspecified)	Groupers	990	3,270	3.30
Siganidae (rabbitfishes)				
Siganidae (unspecified)	Rabbitfishes	1,187	3,947	3.32
Sphyraenidae (barracudas)				
Sphyraena spp.	Barracudas	1,650	3,557	2.16
Unspecified Fish Groups				
Carangidae, Lutjanidae,	Bottomfishes (unspecified)	719	2,443	3.40
Various (many) families	Reef fishes (unspecified)	19,075	60,949	3.20
Miscellaneous Seafood (insuffice	ient information)			
Unknown fish/invertebrates	Miscellaneous (unspecified)	829	1,395	1.68
Unknown fish/invertebrates	Unknown	1,670	5,964	3.57
INVERTEBRATES:				
Crustaceans: Crabs				
Infraorder: Brachyura	Crabs	42	222	5.32
Crustaceans: Lobsters				
Infraorder: Achelata	Lobsters	1,878	7,204	3.84
Mollusks				
Octopus spp.	Octopus	413	1,387	3.36
	Total	192,111	\$475,459	\$2.47

Table C-2 Guam January 2014 Estimated Commercial Landings

Group				
Subgroup		Lbs	Estimated	Price/
Scientific Name	Common/local name	Sold	Value	Lb
FISHES:				
Scombridae				
Tunas				
Katsuwonus pelamis	Skipjack tuna	2,889	5,649	1.96
Thunnus albacares	Yellowfin tuna	420	909	2.16
Other scombrids				
Acanthocybium solandri	Wahoo	1,210	2,965	2.45
Gymnosarda unicolor	Dogtooth tuna	47	95	2.00
Billfishes				
Istiophoridae				
Makaira mazara, Makaira	Marlins (unspecified)	65	114	1.75
Other fishes				
Acanthuridae (Tangs, Surgeons, U	Unicornfishes)			
Acanthurus, Ctenochaetus spp.	Surgeonfishes (unspecified)	4	14	3.25
Naso spp.	Unicornfishes (unspecified)	938	3,047	3.25
Carangidae (jacks & trevallies)				
Carangidae (unspecified)	Jacks	11	34	3.00
Elagatis bipinnulata	Rainbow runner	108	237	2.19
Coryphaenidae (mahimahi/dolphi	nfish)			
Coryphaena hippurus, C.	Mahimahi	10,930	23,869	2.18
Lethrinidae (emperors)				
Lethrinidae (unspecified)	Mafute (emperor)	56	183	3.25
Lutjanidae (snappers)	· · ·			
Aprion virescens	Uku (gray snapper)	4	12	3.25
Etelis carbunculus	Ehu (red snapper)	1	4	4.24
Pristipomoides zonatus	Gindai (flower snapper)	1	5	4.25
Scaridae (parrotfishes)				
Scaridae (unspecified)	Parrotfishes	393	1,276	3.25
Sphyraenidae (barracudas)				
Sphyraena spp.	Barracudas	65	134	2.06
Unspecified Fish Groups				
Carangidae, Lutjanidae,	Bottomfishes (unspecified)	33	108	3.25
Various (many) families	Reef fishes (unspecified)	782	2,540	3.25
	Total	17,957	\$41,195	2.29

Table C-3
Guam February 2014 Estimated Commercial Landings

Group Subgroup		T 1	Est's stal	D.: /
Scientific Name	Common/local name	Lbs Sold	Estimated Value	Price/ Lb
FISHES: Scombridae				
Tunas				
Katsuwonus pelamis	Skipjack tuna	713	1,432	2.01
Thunnus albacares	Yellowfin tuna	135	259	1.91
Other scombrids				
Acanthocybium solandri	Wahoo	2,557	6,236	2.44
Gymnosarda unicolor	Dogtooth tuna	81	148	1.82
Billfishes				
Istiophoridae				
Istiophorus platypterus	Sailfish	52	104	2.00
Makaira mazara, Makaira	Marlins (unspecified)	170	298	1.75
Other fishes				
Acanthuridae (Tangs, Surgeons, U	(nicornfishes)			
Acanthurus, Ctenochaetus spp.	Surgeonfishes (unspecified)	20	65	3.25
Naso spp.	Unicornfishes (unspecified)	777	2,524	3.25
Carangidae (jacks & trevallies)				
Elagatis bipinnulata	Rainbow runner	138	311	2.25
Coryphaenidae (mahimahi/dolphir	nfish)			
Coryphaena hippurus, C.	Mahimahi	9,807	21,961	2.24
Lutjanidae (snappers)				
Aphareus rutilans	Lehi (silverjaw)	1	5	4.25
Aprion virescens	Uku (gray snapper)	4	12	3.25
Mullidae (goatfishes)				
Mullidae (unspecified)	Goatfishes	148	482	3.25
Scaridae (parrotfishes)				
Scaridae (unspecified)	Parrotfishes	393	1,278	3.25
Serranidae (groupers)				
Serranidae (unspecified)	Groupers	27	82	3.07
Sphyraenidae (barracudas)	•			
Sphyraena spp.	Barracudas	765	1,647	2.15
Unspecified Fish Groups				
Carangidae, Lutjanidae,	Bottomfishes (unspecified)	28	89	3.25
Various (many) families	Reef fishes (unspecified)	415	1,349	3.25
Miscellaneous Seafood (insufficient	nt information)			
Unknown fish/invertebrates	Unknown	31	94	3.00
	Total	16,262	\$38,376	\$2.36

Section C: Guam

Table C-4
Guam March 2014 Estimated Commercial Landings

Group				
Subgroup		Lbs	Estimated	Price/
Scientific Name	Common/local name	Sold	Value	Lb
FISHES:				
Scombridae				
Tunas				
Katsuwonus pelamis	Skipjack tuna	440	945	2.15
Thunnus albacares	Yellowfin tuna	143	358	2.51
Other scombrids				
Acanthocybium solandri	Wahoo	820	2,073	2.53
Gymnosarda unicolor	Dogtooth tuna	121	234	1.94
Billfishes				
Istiophoridae				
Istiophorus platypterus	Sailfish	41	62	1.50
Makaira mazara, Makaira	Marlins (unspecified)	304	532	1.75
Other fishes				
Acanthuridae (Tangs, Surgeons,	Unicornfishes)			
Naso spp.	Unicornfishes (unspecified)	508	1,652	3.25
Carangidae (jacks & trevallies)				
Selar crumenopthalmus	Bigeye scad (atulai)	108	352	3.25
Elagatis bipinnulata	Rainbow runner	32	72	2.25
Coryphaenidae (mahimahi/dolph	ninfish)			
Coryphaena hippurus, C.	Mahimahi	3,133	7,611	2.43
Lethrinidae (emperors)		,	,	
Lethrinidae (unspecified)	Mafute (emperor)	11	37	3.25
Lutjanidae (snappers)	(- 1)			
Pristipomoides zonatus	Gindai (flower snapper)	12	36	3.00
Scaridae (parrotfishes)	((
Scaridae (unspecified)	Parrotfishes	203	708	3.48
Sphyraenidae (barracudas)	T directiones	203	700	5.10
Sphyraena spp.	Barracudas	43	90	2.07
Unspecified Fish Groups	Barracudas	7.5	70	2.07
Various (many) families	Reef fishes (unspecified)	628	2,039	3.25
Miscellaneous Seafood (insuffici	` -	028	2,039	3.23
,	,	70	220	2.25
Unknown fish/invertebrates	Unknown	70	228	3.25
	Total	6,617	\$17,029	\$2.57

(This page is intentionally left blank.)

Table C-5
Guam April 2014 Estimated Commercial Landings

Group Subgroup		Lbs	Estimated	Price/
Scientific Name	Common/local name	Sold	Value	Lb
FISHES:				
Scombridae				
Tunas				
Katsuwonus pelamis	Skipjack tuna	1,476	3,015	2.04
Thunnus albacares	Yellowfin tuna	315	694	2.20
Other scombrids				
Acanthocybium solandri	Wahoo	654	1,635	2.50
Gymnosarda unicolor	Dogtooth tuna	81	172	2.13
Billfishes				
Istiophoridae				
Makaira mazara, Makaira	Marlins (unspecified)	527	960	1.82
Other fishes				
Acanthuridae (Tangs, Surgeons, U	Inicornfishes)			
Acanthurus, Ctenochaetus spp.	Surgeonfishes (unspecified)	59	192	3.25
Naso spp.	Unicornfishes (unspecified)	1,348	4,382	3.25
Carangidae (jacks & trevallies)	(unspection)	1,5 .0	.,5 0 2	J. <u>-</u> U
Carangidae (unspecified)	Jacks	88	281	3.21
Selar crumenopthalmus	Bigeye scad (atulai)	605	1,476	2.44
Elagatis bipinnulata	Rainbow runner	107	240	2.25
Coryphaenidae (mahimahi/dolphi	nfish)			
Coryphaena hippurus, C.	Mahimahi	2,253	5,639	2.50
Lethrinidae (emperors)		_,	-,	_,_,
Lethrinidae (unspecified)	Mafute (emperor)	248	744	3.00
Lutjanidae (snappers)	warate (emperor)	210	,	5.00
Aphareus rutilans	Lehi (silverjaw)	27	112	4.15
Etelis coruscans	Onaga (red snapper)	14	83	6.00
Pristipomoides filamentosus	Opakapaka (pink snapper)	7	29	4.25
Pristipomoides sieboldii	Kalikali (pink snapper)	1	5	3.98
Scaridae (parrotfishes)	11 /			
Scaridae (unspecified)	Parrotfishes	724	2,507	3.46
Serranidae (groupers)			_,,	
Serranidae (unspecified)	Groupers	77	239	3.11
Siganidae (rabbitfishes)	Groupers	, ,	23,	5.11
Siganidae (unspecified)	Rabbitfishes	48	154	3.25
Sphyraenidae (barracudas)	Rabbitiishes	40	134	3.23
. ,	Barracudas	89	101	2.07
Sphyraena spp.	Barracudas	89	184	2.07
Unspecified Fish Groups	D " " " " " " "	1.7	50	2.50
Carangidae, Lutjanidae,	Bottomfishes (unspecified)	17	59 2.742	3.50
Various (many) families	Reef fishes (unspecified)	1,147	3,743	3.26
Unknown fish/invertebrates	Miscellaneous (unspecified)	52	168	3.25

Table C-5
Guam April 2014 Estimated Commercial Landings

Group Subgroup Scientific Name	Common/local name	Lbs Sold	Estimated Value	Price/ Lb
INVERTEBRATES:				
Mollusks				
Octopus spp.	Octopus	48	157	3.25
	Total	10,012	\$26,870	\$2.68

Table C-6
Guam May 2014 Estimated Commercial Landings

Subgroup		Lbs	Estimated	Price/
Scientific Name	Common/local name	Sold	Value	Lb
FISHES:				
Scombridae				
Tunas				
Katsuwonus pelamis	Skipjack tuna	6,639	12,726	1.9
Thunnus albacares	Yellowfin tuna	1,743	4,229	2.4
Other scombrids				
Acanthocybium solandri	Wahoo	400	954	2.3
Gymnosarda unicolor	Dogtooth tuna	267	408	1.5
Billfishes				
Istiophoridae				
Makaira mazara, Makaira	Marlins (unspecified)	3,440	5,703	1.6
Other fishes				
Acanthuridae (Tangs, Surgeons, U	nicornfishes)			
Acanthurus, Ctenochaetus spp.	Surgeonfishes (unspecified)	72	233	3.2
Naso spp.	Unicornfishes (unspecified)	2,731	8,876	3.2
Carangidae (jacks & trevallies)				
Carangidae (unspecified)	Jacks	18	48	2.7
Seriola dumerili	Greater amberjack	23	68	3.0
Elagatis bipinnulata	Rainbow runner	437	950	2.1
Coryphaenidae (mahimahi/dolphir	nfish)			
Coryphaena hippurus, C.	Mahimahi	661	1,633	2.4
Lethrinidae (emperors)				
Lethrinidae (unspecified)	Mafute (emperor)	149	485	3.2
Lutjanidae (snappers)				
Aphareus rutilans	Lehi (silverjaw)	16	65	4.0
Aprion virescens	Uku (gray snapper)	7	22	3.2
Etelis carbunculus	Ehu (red snapper)	13	54	4.2
Etelis coruscans	Onaga (red snapper)	167	965	5.7
Lutjanidae (unspecified)	Snappers	50	163	3.2
Pristipomoides sieboldii	Kalikali (pink snapper)	13	52	4.0
Pristipomoides zonatus	Gindai (flower snapper)	12	50	4.2
Scaridae (parrotfishes)				
Scaridae (unspecified)	Parrotfishes	1,628	5,683	3.4
Serranidae (groupers)				
Serranidae (unspecified)	Groupers	32	104	3.2
Siganidae (rabbitfishes)				
Siganidae (unspecified)	Rabbitfishes	74	262	3.5
Sphyraenidae (barracudas)				
Sphyraena spp.	Barracudas	90	192	2.1
Unspecified Fish Groups				
Carangidae, Lutjanidae,	Bottomfishes (unspecified)	152	560	3.6
Various (many) families	Reef fishes (unspecified)	1,986	6,471	3.2

Table C-6 Guam May 2014 Estimated Commercial Landings

Group				
Subgroup		Lbs	Estimated	Price/
Scientific Name	Common/local name	Sold	Value	Lb
Miscellaneous Seafood (insuffice	ient information)			
Unknown fish/invertebrates	Miscellaneous (unspecified)	73	159	2.20
Unknown fish/invertebrates	Unknown	145	461	3.17
INVERTEBRATES:				
Crustaceans: Crabs				
Infraorder: Brachyura	Crabs	17	54	3.25
Crustaceans: Lobsters				
Infraorder: Achelata	Lobsters	73	272	3.75
Mollusks				
Octopus spp.	Octopus	163	525	3.22
	Total	21,292	\$52,426	\$2.46

Table C-7
Guam June 2014 Estimated Commercial Landings

Subgroup Scientific Name	Common/local name	Lbs Sold	Estimated Value	Price/ Lb
Scientific Name	Common/local name	Solu	value	LU
FISHES:				
Scombridae				
Tunas	Claimin along	5 440	10.402	1.0
Katsuwonus pelamis Thunnus albacares	Skipjack tuna Yellowfin tuna	5,449 854	10,483 1,953	1.9 2.2
	i enowim tuna	834	1,933	2.2
Other scombrids	XX 1	210	525	2.5
Acanthocybium solandri	Wahoo Dogtooth tuna	210 61	525 121	2.5 2.0
Gymnosarda unicolor	Dogtooth tuna	01	121	2.0
Billfishes				
Istiophoridae				
Istiophorus platypterus	Sailfish	97	204	2.1
Makaira mazara, Makaira	Marlins (unspecified)	1,666	2,796	1.6
Other fishes				
Acanthuridae (Tangs, Surgeons, U	Unicornfishes)			
Acanthurus, Ctenochaetus spp.	Surgeonfishes (unspecified)	68	223	3.3
Naso spp.	Unicornfishes (unspecified)	1,106	3,594	3.2
Carangidae (jacks & trevallies)				
Carangidae (unspecified)	Jacks	113	339	3.0
Seriola dumerili	Greater amberjack	26	79	3.0
Elagatis bipinnulata	Rainbow runner	406	898	2.2
Coryphaenidae (mahimahi/dolphin	fish)			
Coryphaena hippurus, C.	Mahimahi	152	367	2.4
Lethrinidae (emperors)				
Lethrinidae (unspecified)	Mafute (emperor)	145	466	3.2
Lutjanidae (snappers)				
Aphareus rutilans	Lehi (silverjaw)	33	141	4.2
Aprion virescens	Uku (gray snapper)	69	202	2.9
Etelis carbunculus	Ehu (red snapper)	28	119	4.2
Pristipomoides filamentosus	Opakapaka (pink snapper)	119	505	4.2
Pristipomoides sieboldii	Kalikali (pink snapper)	286	1,137	3.9
Pristipomoides zonatus	Gindai (flower snapper)	65	275	4.2
Mugilidae (mullets)				
Mugilidae (unspecified)	Mullet	12	38	3.2
Scaridae (parrotfishes)				
Scaridae (unspecified)	Parrotfishes	2,762	9,583	3.4
Serranidae (groupers)				
Serranidae (unspecified)	Groupers	288	903	3.1
Siganidae (rabbitfishes)				
Siganidae (unspecified)	Rabbitfishes	42	111	2.6
Sphyraenidae (barracudas)				
Sphyraena spp.	Barracudas	113	232	2.0

Table C-7
Guam June 2014 Estimated Commercial Landings

Group Subgroup		Lbs	Estimated	Price/
Scientific Name	Common/local name	Sold	Value	Lb
Other fishes (continued)				
Unspecified Fish Groups				
Carangidae, Lutjanidae,	Bottomfishes (unspecified)	29	95	3.25
Various (many) families	Reef fishes (unspecified)	2,786	9,043	3.25
Miscellaneous Seafood (insufficion	ent information)			
Unknown fish/invertebrates	Miscellaneous (unspecified)	11	33	3.00
Unknown fish/invertebrates	Unknown	460	1,457	3.17
INVERTEBRATES:				
Crustaceans: Lobsters				
Infraorder: Achelata	Lobsters	863	3,235	3.75
Mollusks				
Octopus spp.	Octopus	48	154	3.25
	Total	18,367	\$49,311	\$2.68

Table C-8
Guam July 2014 Estimated Commercial Landings

Group Subgroup	•			
Scientific Name	Common/local name	Lbs Sold	Estimated Value	Price/ Lb
	Common/local name	5014	varue	110
FISHES: Scombridae				
Tunas				
Katsuwonus pelamis	Skipjack tuna	3,819	6,136	1.61
Thunnus albacares	Yellowfin tuna	335	837	2.50
Other scombrids				
Acanthocybium solandri	Wahoo	43	108	2.50
Gymnosarda unicolor	Dogtooth tuna	135	217	1.61
Billfishes				
Istiophoridae				
Makaira mazara, Makaira	Marlins (unspecified)	2,903	5,343	1.84
Tetrapturus angustirostris	Spearfish	28	42	1.50
Other fishes				
Acanthuridae (Tangs, Surgeons, U	Unicornfishes)			
Acanthurus, Ctenochaetus spp.	Surgeonfishes (unspecified)	164	516	3.14
Naso spp.	Unicornfishes (unspecified)	1,806	5,869	3.25
Carangidae (jacks & trevallies)				
Elagatis bipinnulata	Rainbow runner	122	275	2.25
Lethrinidae (emperors)				
Lethrinidae (unspecified)	Mafute (emperor)	182	563	3.09
Lutjanidae (snappers)				
Pristipomoides filamentosus	Opakapaka (pink snapper)	9	40	4.25
Pristipomoides zonatus	Gindai (flower snapper)	4	11	3.00
Mullidae (goatfishes)				
Mullidae (unspecified)	Goatfishes	167	500	3.00
Scaridae (parrotfishes)				
Scaridae (unspecified)	Parrotfishes	1,248	4,401	3.53
Serranidae (groupers)				
Serranidae (unspecified)	Groupers	79	258	3.25
Siganidae (rabbitfishes)				
Siganidae (unspecified)	Rabbitfishes	114	422	3.70
Sphyraenidae (barracudas)				
Sphyraena spp.	Barracudas	35	78	2.25
Unspecified Fish Groups				
Carangidae, Lutjanidae,	Bottomfishes (unspecified)	33	113	3.48
Various (many) families	Reef fishes (unspecified)	1,203	3,911	3.25
Unknown Fish or Invertebrates	Miscellaneous (unspecified)	5	15	3.00

Table C-8 Guam July 2014 Estimated Commercial Landings

Group Subgroup		Lbs	Estimated	Price/
Scientific Name	Common/local name	Sold	Value	Lb
INVERTEBRATES:				
Crustaceans: Lobsters				
Infraorder: Achelata	Lobsters	253	934	3.70
Mollusks				
Octopus spp.	Octopus	58	194	3.33
	Total	12,745	\$30,783	\$2.42

Table C-9
Guam August 2014 Estimated Commercial Landings

Group	e			
Subgroup		Lbs	Estimated	Price/
Scientific Name	Common/local name	Sold	Value	Lb
FISHES:				
Scombridae				
Tunas				
Katsuwonus pelamis	Skipjack tuna	3,567	7,422	2.08
Thunnus albacares	Yellowfin tuna	1,260	2,898	2.30
Other scombrids				
Acanthocybium solandri	Wahoo	788	1,964	2.49
Gymnosarda unicolor	Dogtooth tuna	43	87	2.00
Billfishes	S			
Istiophoridae				
Istiophorus platypterus	Sailfish	166	242	1.40
Makaira mazara, Makaira	Marlins (unspecified)	11,647	16,378	1.4
Other fishes	warms (unspecified)	11,047	10,576	1.7
	~ 1)			
Acanthuridae (Tangs, Surgeons, Uni		000	• • • •	
Acanthurus, Ctenochaetus spp.	Surgeonfishes (unspecified)	888	2,833	3.1
Naso spp.	Unicornfishes (unspecified)	2,245	7,423	3.3
Carangidae (jacks & trevallies)				
Seriola dumerili	Greater amberjack	11	34	3.2
Selar crumenopthalmus	Bigeye scad (atulai)	402	822	2.0
Elagatis bipinnulata	Rainbow runner	101	227	2.2
Coryphaenidae (mahimahi/dolphir	nfish)			
Coryphaena hippurus, C. equiselis	Mahimahi	254	514	2.0
Lethrinidae (emperors)				
Lethrinidae (unspecified)	Mafute (emperor)	459	1,403	3.0
Lutjanidae (snappers)	\ 1 /		,	
Aprion virescens	Uku (gray snapper)	28	89	3.2
Etelis carbunculus	Ehu (red snapper)	11	45	4.2
Pristipomoides filamentosus	Opakapaka (pink snapper)	50	213	4.2
Pristipomoides sieboldii	Kalikali (pink snapper)	98	401	4.1
Pristipomoides zonatus	Gindai (flower snapper)	27	116	4.2
Mugilidae (mullets)	(' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '			
Mugilidae (unspecified)	Mullet	95	285	3.0
Mullidae (goatfishes)	Manet	75	203	5.0
Mullidae (unspecified)	Goatfishes	193	580	3.0
	Goattisties	193	380	3.0
Scaridae (parrotfishes)	D (7.1	2.106	5 55 4	2.5
Scaridae (unspecified)	Parrotfishes	2,196	7,774	3.5
Serranidae (groupers)				
Serranidae (unspecified)	Groupers	102	332	3.2
Siganidae (rabbitfishes)				
Siganidae (unspecified)	Rabbitfishes	503	1,533	3.0
Sphyraenidae (barracudas)				
Sphyraena spp.	Barracudas	233	522	2.2

Section C: Guam

Table C-9
Guam August 2014 Estimated Commercial Landings

Subgroup		Lbs	Estimated	Price/
Scientific Name	Common/local name	Sold	Value	Lb
Other fishes (continued)				
Unspecified Fish Groups				
Carangidae, Lutjanidae,	Bottomfishes (unspecified)	183	613	3.36
Various (many) families	Reef fishes (unspecified)	2,113	6,688	3.17
Miscellaneous Seafood (insufficial	ent information)			
Unknown fish/invertebrates	Miscellaneous (unspecified)	85	234	2.75
Unknown fish/invertebrates	Unknown	411	1,428	3.48
INVERTEBRATES:				
Crustaceans: Lobsters				
Infraorder: Achelata	Lobsters	330	1,269	3.84
	Total	28,489	\$64,369	\$2.26

Table C-10 Guam September 2014 Estimated Commercial Landings

Group			8	
Subgroup		Lbs	Estimated	Price/
Scientific Name	Common/local name	Sold	Value	Lb
FISHES:				
Scombridae				
Tunas				
Katsuwonus pelamis	Skipjack tuna	5,191	9,551	1.84
Thunnus albacares	Yellowfin tuna	1,375	2,992	2.17
Other scombrids				
Acanthocybium solandri	Wahoo	1,095	1,995	1.82
Gymnosarda unicolor	Dogtooth tuna	351	640	1.83
Billfishes	-			
Istiophoridae				
Makaira mazara, Makaira	Marlins (unspecified)	699	1,156	1.65
Other fishes	warms (unspective)	0,,	1,130	1.05
	1 . (1)			
Acanthuridae (Tangs, Surgeons, U				
Acanthurus, Ctenochaetus spp.	Surgeonfishes (unspecified)	928	2,784	3.00
Naso spp.	Unicornfishes (unspecified)	1,363	4,592	3.37
Carangidae (jacks & trevallies)				
Carangidae (unspecified)	Jacks	97	316	3.25
Seriola dumerili	Greater amberjack	7	22	3.25
Selar crumenopthalmus	Bigeye scad (atulai)	424	1,272	3.00
Elagatis bipinnulata	Rainbow runner	166	374	2.25
Coryphaenidae (mahimahi/dolphinf	ish)			
Coryphaena hippurus, C. equiselis	Mahimahi	180	387	2.15
Holocentridae (squirrel & soldierf	rishes)			
Sargocentron spp., Neoniphon	Squirrelfishes	66	228	3.46
Lethrinidae (emperors)				
Lethrinidae (unspecified)	Mafute (emperor)	611	1,850	3.03
Lutjanidae (snappers)	,		,	
Aphareus rutilans	Lehi (silverjaw)	12	50	4.25
Aprion virescens	Uku (gray snapper)	55	169	3.08
Etelis carbunculus	Ehu (red snapper)	47	199	4.25
Etelis coruscans	Onaga (red snapper)	91	546	6.00
Lutjanidae (unspecified)	Snappers	36	134	3.70
Pristipomoides filamentosus	Opakapaka (pink snapper)	61	260	4.25
Pristipomoides sieboldii	Kalikali (pink snapper)	34	139	4.12
Pristipomoides zonatus	Gindai (flower snapper)	10	43	4.25
Mugilidae (mullets)	, , ,			
Mugilidae (unspecified)	Mullet	59	178	3.00
Mullidae (goatfishes)			1,0	2.00
Mullidae (unspecified)	Goatfishes	200	600	3.00
	Goathshes	200	000	3.00
Scaridae (parrotfishes)	D (C.1	1.706	. 2 00	2.50
Scaridae (unspecified)	Parrotfishes	1,796	6,289	3.50
Serranidae (groupers)				
Serranidae (unspecified)	Groupers	163	565	3.47

Table C-10 Guam September 2014 Estimated Commercial Landings

Group				
Subgroup		Lbs	Estimated	Price/
Scientific Name	Common/local name	Sold	Value	Lb
Other fishes (continued)				
Siganidae (rabbitfishes)				
Siganidae (unspecified)	Rabbitfishes	89	277	3.11
Sphyraenidae (barracudas)				
Sphyraena spp.	Barracudas	38	90	2.37
Unspecified Fish Groups				
Carangidae, Lutjanidae,	Bottomfishes (unspecified)	173	562	3.25
Various (many) families	Reef fishes (unspecified)	1,926	5,975	3.10
Miscellaneous Seafood (insufficie	ent information)			
Unknown fish/invertebrates	Unknown	380	1,594	4.20
INVERTEBRATES:				
Crustaceans: Lobsters				
Infraorder: Achelata	Lobsters	251	1,062	4.23
Mollusks				
Octopus spp.	Octopus	95	356	3.75
	Total	18,069	\$47,247	\$2.61

Table C-11 Guam October 2014 Estimated Commercial Landings

Group				
Subgroup		Lbs	Estimated	Price/
Scientific Name	Common/local name	Sold	Value	Lb
FISHES:				
Scombridae				
Tunas				
Katsuwonus pelamis	Skipjack tuna	5,856	12,536	2.14
Thunnus albacares	Yellowfin tuna	68	153	2.25
Tribe Thunnini (unspecified)	Tunas	81	183	2.25
Other scombrids				
Acanthocybium solandri	Wahoo	404	1,010	2.50
Billfishes				
Istiophoridae				
Makaira mazara, Makaira	Marlins (unspecified)	917	1,402	1.53
Other fishes	\ 1 /		,	
Acanthuridae (Tangs, Surgeons, U	Inicornfishes)			
Acanthurus, Ctenochaetus spp.	Surgeonfishes (unspecified)	710	2,137	3.01
Naso spp.	Unicornfishes (unspecified)	2,215	7,532	3.40
Carangidae (jacks & trevallies)	Officormistics (unspectfied)	2,213	7,332	3.40
	Jacks	67	201	3.00
Carangidae (unspecified) Elagatis bipinnulata	Rainbow runner	138	311	2.25
		136	311	2.23
Coryphaenidae (mahimahi/dolphi		122	227	2.47
Coryphaena hippurus, C.	Mahimahi	132	327	2.47
Labridae (wrasses)				
Labridae (unspecified)	Wrasses	22	70	3.25
Lethrinidae (emperors)				
Lethrinidae (unspecified)	Mafute (emperor)	341	1,042	3.06
Lutjanidae (snappers)				
Aprion virescens	Uku (gray snapper)	8	24	3.25
Etelis coruscans	Onaga (red snapper)	19	116	6.00
Lutjanidae (unspecified)	Snappers	4	12	3.25
Pristipomoides filamentosus	Opakapaka (pink snapper)	8	32	4.25
Pristipomoides sieboldii	Kalikali (pink snapper)	8	34	4.00
Mugilidae (mullets)				
Mugilidae (unspecified)	Mullet	58	175	3.00
Mullidae (goatfishes)				
Mullidae (unspecified)	Goatfishes	110	448	4.07
Scaridae (parrotfishes)				
Scaridae (unspecified)	Parrotfishes	2,003	7,000	3.50
Serranidae (groupers)				
Serranidae (unspecified)	Groupers	201	710	3.54
Siganidae (rabbitfishes)	T		9	- ** *
Siganidae (unspecified)	Rabbitfishes	248	944	3.80
Sphyraenidae (barracudas)	Tadominio	240	711	5.00
	Barracudas	70	171	2.10
Sphyraena spp.	Darracuuas	78	171	2.19

Table C-11
Guam October 2014 Estimated Commercial Landings

Group Subgroup		Lbs	Estimated	Price/
Scientific Name	Common/local name	Sold	Value	Lb
Other fishes (continued)				
Unspecified Fish Groups				
Carangidae, Lutjanidae,	Bottomfishes (unspecified)	64	209	3.25
Various (many) families	Reef fishes (unspecified)	2,545	8,004	3.14
Miscellaneous Seafood (insufficial	ent information)			
Unknown fish/invertebrates	Unknown	149	630	4.22
INVERTEBRATES:				
Crustaceans: Lobsters				
Infraorder: Achelata	Lobsters	102	404	3.95
	Total	16,556	\$45,817	\$2.77

Table C-12 Guam November 2014 Estimated Commercial Landings

Group				
Subgroup		Lbs	Estimated	Price/
Scientific Name	Common/local name	Sold	Value	Lb
FISHES:				
Scombridae				
Tunas				
Katsuwonus pelamis	Skipjack tuna	2,824	3,658	1.30
Thunnus albacares	Yellowfin tuna	778	1,913	2.46
Other scombrids				
Acanthocybium solandri	Wahoo	4,468	9,627	2.15
Gymnosarda unicolor	Dogtooth tuna	58	114	1.97
Billfishes				
Istiophoridae				
Istiophorus platypterus	Sailfish	51	94	1.85
Makaira mazara, Makaira	Marlins (unspecified)	391	740	1.89
Other fishes				
Acanthuridae (Tangs, Surgeons, U	Unicornfishes)			
Acanthurus, Ctenochaetus spp.	Surgeonfishes (unspecified)	330	1,011	3.06
Naso spp.	Unicornfishes (unspecified)	1,212	3,888	3.21
Carangidae (jacks & trevallies)				
Carangidae (unspecified)	Jacks	83	248	3.00
Elagatis bipinnulata	Rainbow runner	29	66	2.25
Coryphaenidae (mahimahi/dolphin				
Coryphaena hippurus, C.	Mahimahi	321	795	2.47
Kyphosidae (sea chubs)				
Kyphosus spp. (various)	Rudderfish (guilli)	51	165	3.25
Lethrinidae (emperors)	114444111011 (841111)		100	0.20
Lethrinidae (unspecified)	Mafute (emperor)	8	27	3.25
Lutjanidae (snappers)	warate (emperor)	O	27	3.23
Aphareus rutilans	Lehi (silverjaw)	3	11	4.00
Etelis carbunculus	Ehu (red snapper)	2	7	4.25
Etelis coruscans	Onaga (red snapper)	45	268	6.00
Pristipomoides filamentosus	Opakapaka (pink snapper)	11	45	4.25
Pristipomoides sieboldii	Kalikali (pink snapper)	16	63	4.00
Scaridae (parrotfishes)	11 /			
Scaridae (unspecified)	Parrotfishes	1,578	5,557	3.52
Serranidae (groupers)		,	- ,	
Serranidae (unspecified)	Groupers	11	38	3.45
Siganidae (rabbitfishes)	Groupers	- 11	20	5.10
Siganidae (unspecified)	Rabbitfishes	69	244	3.53
Sphyraenidae (barracudas)	Rabbitishes	0)	244	3.33
Sphyraena spp.	Barracudas	25	57	2.25
1 2 11	Darracudas	23	31	2.23
Unspecified Fish Groups	Doof Colon (marine 10 - 1)	1.070	F 010	2 12
Various (many) families Unknown Fish or Invertebrates	Reef fishes (unspecified)	1,860	5,819	3.13
Unknown Fish of invertebrates	Miscellaneous (unspecified)	550	610	1.11

Table C-12 Guam November 2014 Estimated Commercial Landings

Scientific Name	Common/local name	Lbs Sold	Estimated Value	Price/ Lb
INVERTEBRATES: Crustaceans: Lobsters Infraorder: Achelata	Lobsters	8	28	3.75
	Total	14,782	\$35,093	\$2.37

C.34

Table C-13

W	CI.: 1	1 222	501	0.41
Katsuwonus pelamis	Skipjack tuna Yellowfin tuna	1,223 557	501 834	0.41
Thunnus albacares	Y ellowfin tuna	55/	834	1.50
Other scombrids		4 600	• • • •	• • •
Acanthocybium solandri	Wahoo	1,633	3,895	2.39
Gymnosarda unicolor	Dogtooth tuna	27	55	2.00
Billfishes				
Istiophoridae				
Makaira mazara, Makaira	Marlins (unspecified)	493	965	1.96
Other fishes				
Acanthuridae (Tangs, Surgeons, U	Inicornfishes)			
Acanthurus, Ctenochaetus spp.	Surgeonfishes (unspecified)	32	103	3.25
Naso spp.	Unicornfishes (unspecified)	1,053	3,421	3.25
Carangidae (jacks & trevallies)				
Carangidae (unspecified)	Jacks	35	106	3.03
Selar crumenopthalmus	Bigeye scad (atulai)	23	76	3.25
Elagatis bipinnulata	Rainbow runner	111	249	2.23
Coryphaenidae (mahimahi/dolphir	nfish)			
Coryphaena hippurus, C.	Mahimahi	2,828	6,943	2.46
Lutjanidae (snappers)				
Etelis carbunculus	Ehu (red snapper)	1	4	4.24
Lutjanidae (unspecified)	Snappers	22	71	3.25
Pristipomoides sieboldii	Kalikali (pink snapper)	5	20	4.00
Scaridae (parrotfishes)				
Scaridae (unspecified)	Parrotfishes	1,051	3,683	3.50
Serranidae (groupers)				
Serranidae (unspecified)	Groupers	11	39	3.50
Sphyraenidae (barracudas)				
Sphyraena spp.	Barracudas	75	160	2.14
Unspecified Fish Groups				
Carangidae, Lutjanidae,	Bottomfishes (unspecified)	8	35	4.25
Various (many) families	Reef fishes (unspecified)	1,686	5,367	3.18
Miscellaneous Seafood (insufficien	` -	,) :	
Unknown fish/invertebrates	Miscellaneous (unspecified)	54	176	3.25
Unknown fish/invertebrates	Unknown	24	73	3.00
			, -	

Table C-13 Guam December 2014 Estimated Commercial Landings

Group Subgroup Lbs Estimated Price/ Common/local name Scientific Name Sold Value Lb **INVERTEBRATES: Crustaceans: Crabs** Infraorder: Brachyura Crabs 25 168 6.70 Total 10,977 \$26,944 \$2.45

The following are summary charts of the major species and species groups by month:

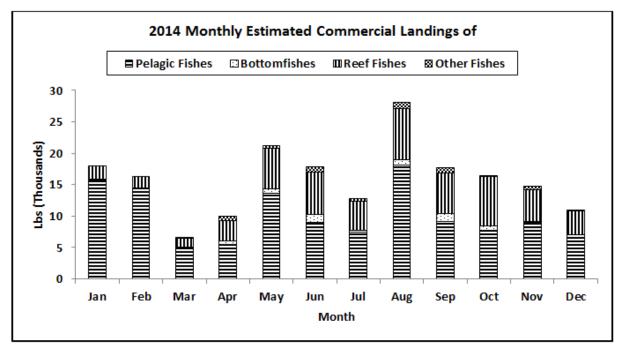


Figure C-1-1

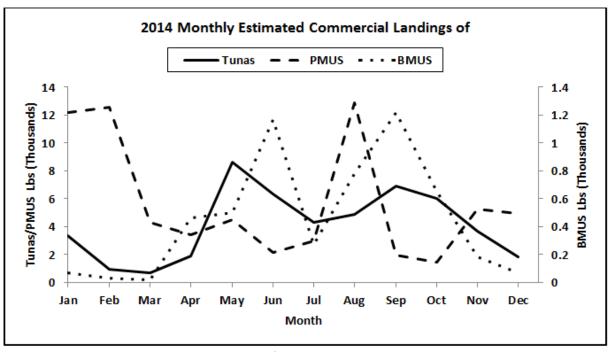


Figure C-1-2

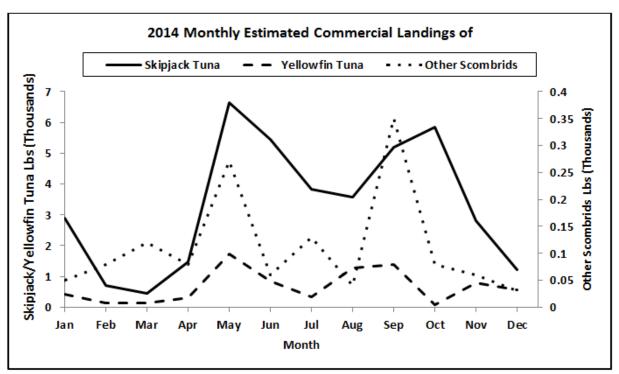


Figure C-1-3

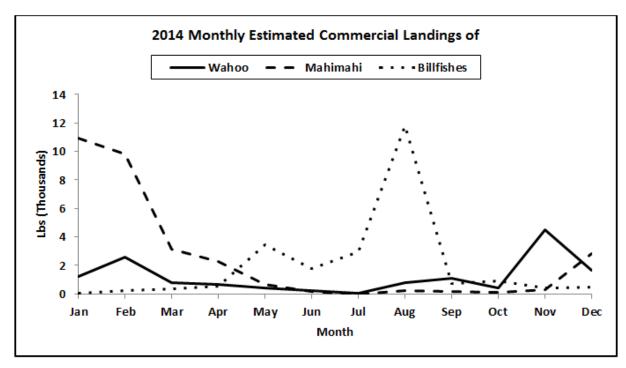


Figure C-1-4

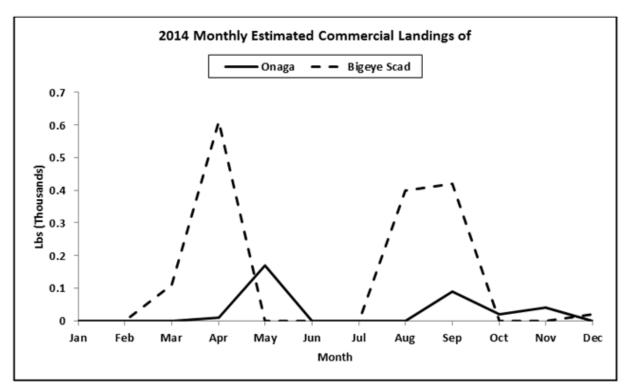


Figure C-1-5

The following are seasonality plots for the major species or species groups, showing the average weight landed during each month for all years combined:

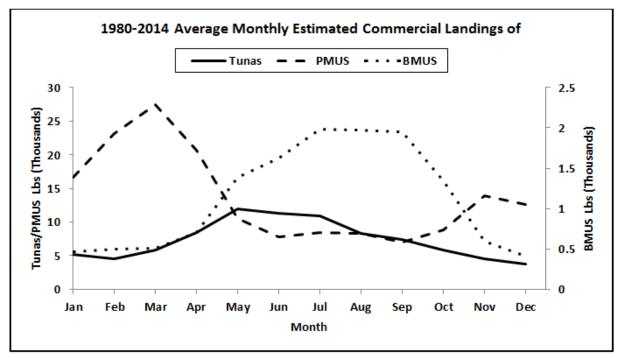


Figure C-2-1

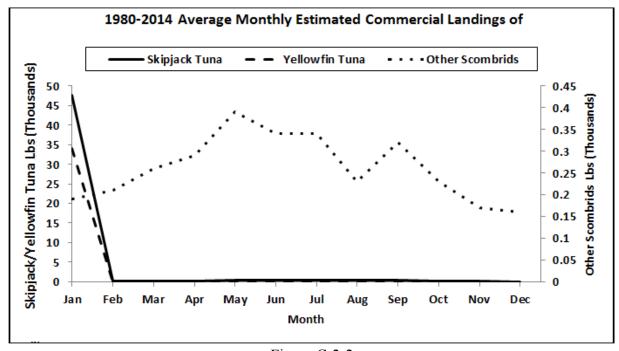


Figure C-2-2

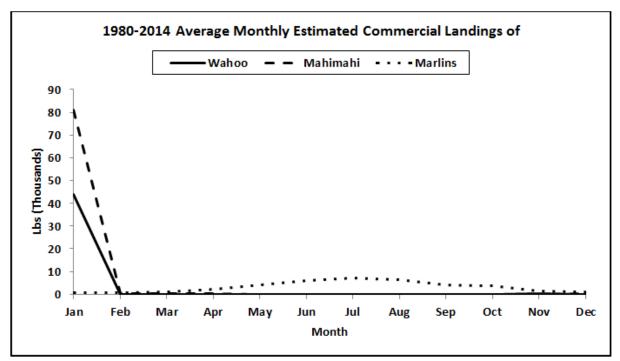


Figure C-2-3

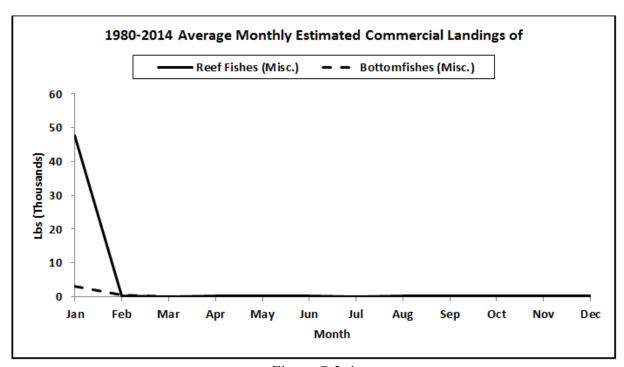


Figure C-2-4

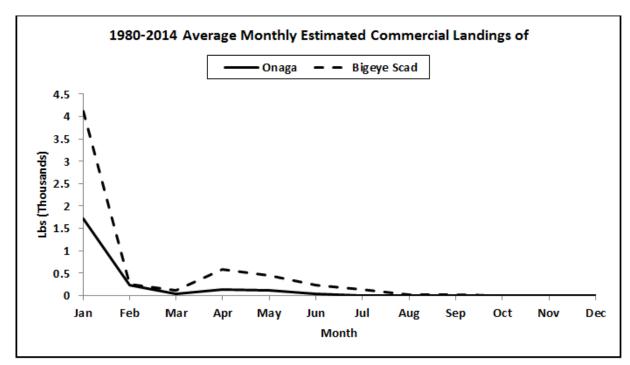


Figure C-2-5

The following graphs plot annual summary statistics to illustrate the variability among years:

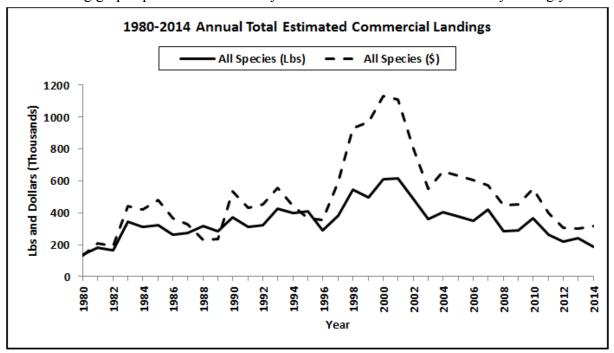


Figure C-3-1

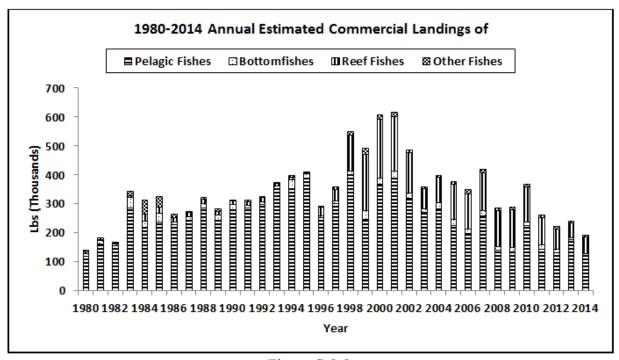


Figure C-3-2

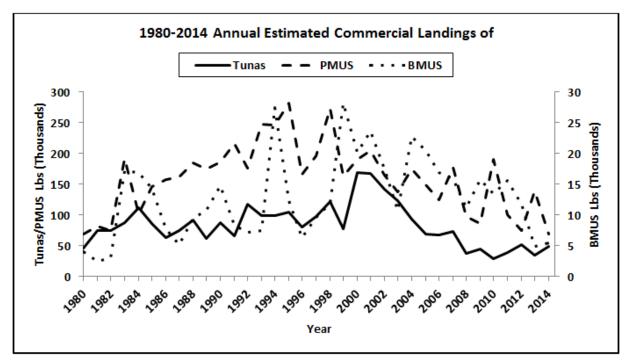


Figure C-3-3

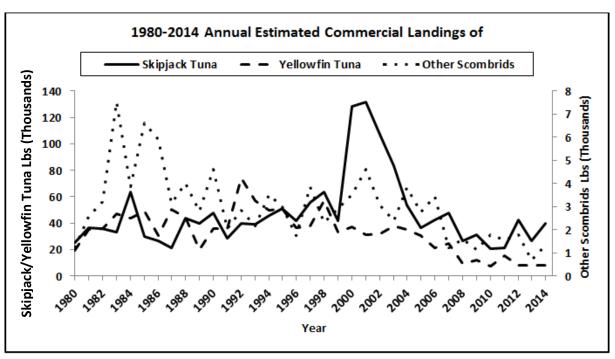


Figure C-3-4

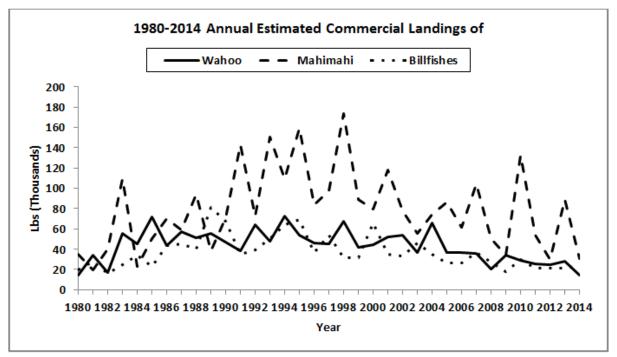


Figure C-3-5

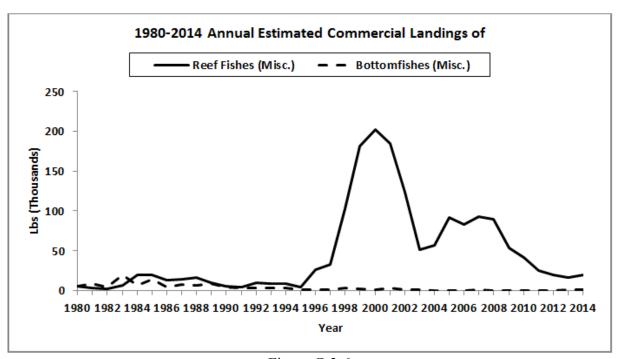


Figure C-3-6

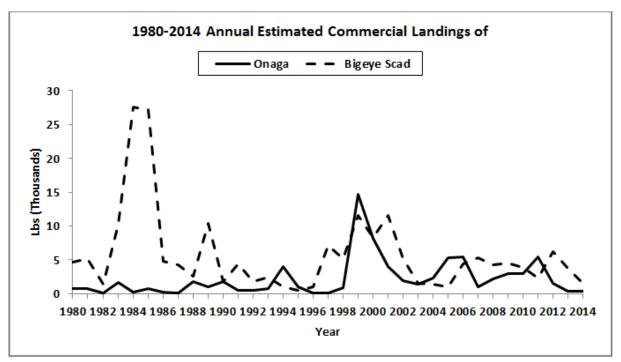


Figure C-3-7

The following graphs plot monthly landings of some commercially important species and document monthly fluctuations over the time series:

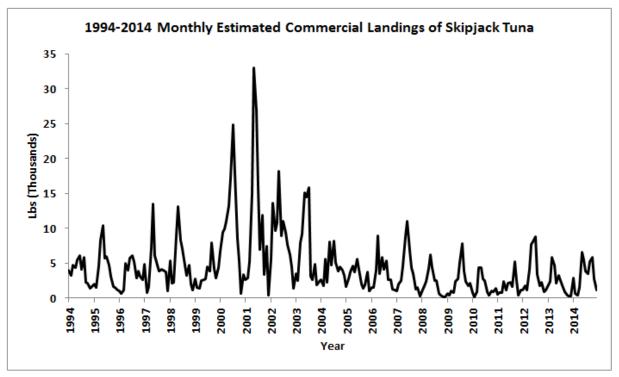


Figure C-4-1

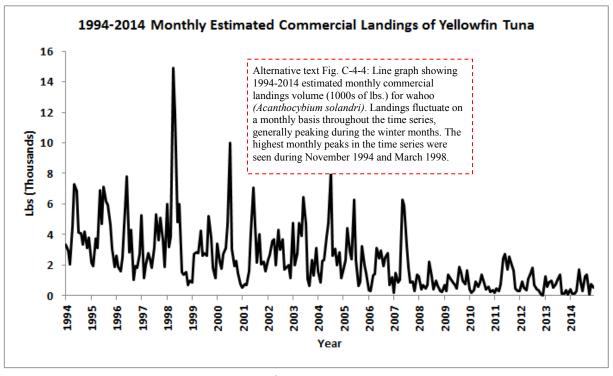


Figure C-4-2

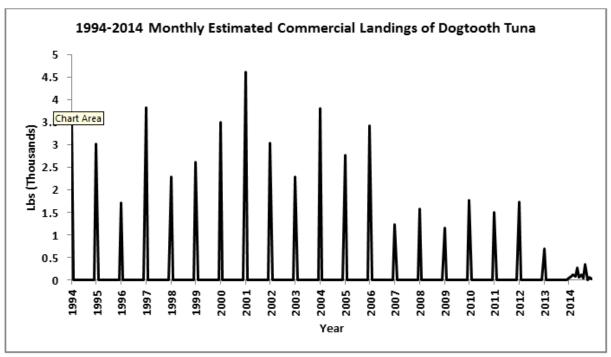


Figure C-4-3

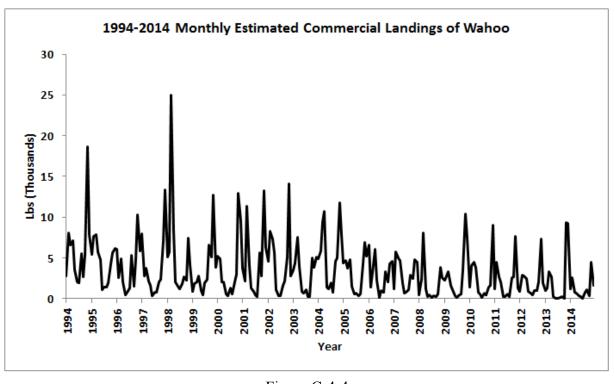


Figure C-4-4

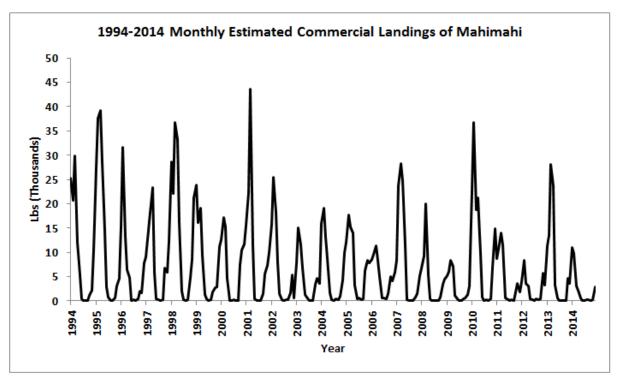


Figure C-4-5

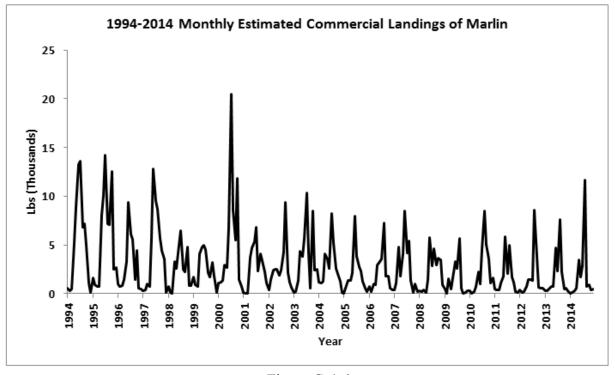


Figure C-4-6

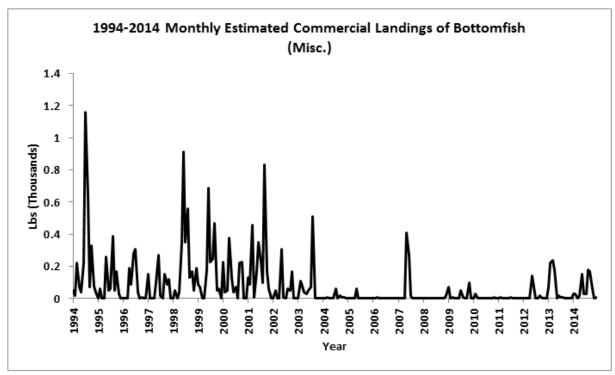


Figure C-4-7

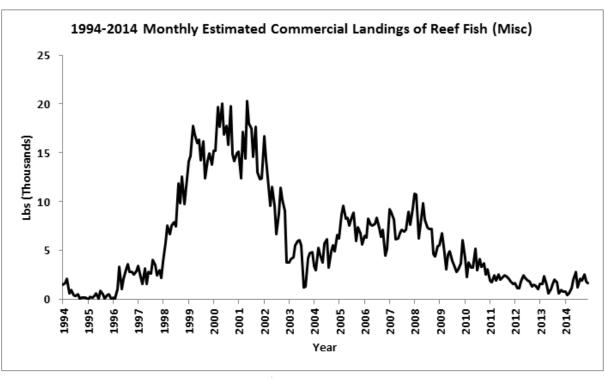


Figure C-4-8

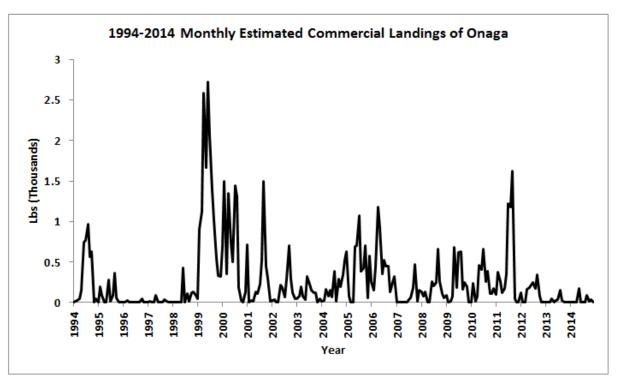


Figure C-4-9

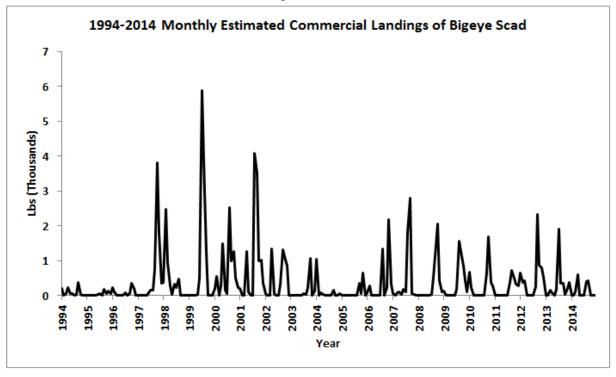


Figure C-4-10

STATE OF HAWAII 2014 FISHERY STATISTICS

Compiled by

Hawaii Department of Land & Natural Resources,

Division of Aquatic Resources

and the

Western Pacific Fishery Information Network

D.iii

CONTENTS

	Page
Introduction	D.1
Northwestern Hawaii Islands Marine National Monument	D.3
Data Collection	D.4
Civil Resources Violation System	D.5
Data Processing	D.6
Data Reporting	D.6
Species Categories	D.7
Tables	D.13
Figures	D.65

D.iv

LIST OF HAWAII 2014 SUMMARY TABLES

Table	S	Page
D-1	Annual Reported Commercial Landings	D.13
D-2	January Reported Commercial Landings	D.17
D-3	February Reported Commercial Landings	D.21
D-4	March Reported Commercial Landings	D.25
D-5	April Reported Commercial Landings	D.29
D-6	May Reported Commercial Landings	D.33
D-7	June Reported Commercial Landings	D.37
D-8	July Reported Commercial Landings	D.41
D-9	August Reported Commercial Landings	D.45
D-10	September Reported Commercial Landings	D.49
D-11	October Reported Commercial Landings	D.53
D-12	November Reported Commercial Landings	D.57
D-13	December Reported Commercial Landings	D.61

D.v

LIST OF HAWAII FIGURES

<u>Figures</u>		<u>Page</u>
2014 M	onthly Reported Commercial Landings	
D-1-1	Pelagic Fishes, Bottomfishes, Reef Fishes, and Other Fishes	D.65
D-1-2	Tunas, PMUS, and BMUS	D.65
D-1-3	Skipjack Tuna, Bigeye Tuna, and Swordfish	D.66
D-1-4	Albacore, Yellowfin, and Other Scombrids	D.66
D-1-5	Wahoo, Mahimahi, and Billfishes	D.67
1948-20	014 Average Monthly Reported Commercial Landings	
D-2-1	Tunas, PMUS, and BMUS	D.68
D-2-2	Skipjack Tuna, Bigeye Tuna, and Swordfish	D.68
D-2-3	Albacore, Yellowfin, and Other Scombrids	D.69
D-2-4	Wahoo and Mahimahi	D.69
D-2-5	Striped Marlin and Blue Marlin	D.70
D-2-6	Opakapaka, Onaga, and Uku	D.70
D-2-7	Bigeye Scad and Mackerel Scad	D.71
D-2-8	Spiny Lobster and Saltwater Shrimp	D.71
1948-20	014 Annual Total Reported Commercial Landings	
D-3-1	All Species (Pounds) and All Species (Dollars)	D.72
D-3-2	Pelagic Fishes, Bottomfishes, Reef Fishes, and Other Fishes	D.72
D-3-3	Tunas, PMUS, and BMUS	D.73
D-3-4	Skipjack Tuna, Bigeye Tuna, and Swordfish	D.73
D-3-5	Albacore, Yellowfin, and Other Scombrids	D.74
D-3-6	Wahoo and Mahimahi	D.74
D-3-7	Striped Marlin and Blue Marlin	D.75
D-3-8	Opakapaka, Onaga, and Uku	D.75
D-3-9	Bigeye Scad and Mackerel Scad	D.76
D-3-10	Spiny Lobster and Saltwater Shrimp	D.76

D.vi

LIST OF HAWAII FIGURES (continued)

<u>Figures</u>		Page
1991-20	014 Monthly Reported Commercial Landings	
D-4-1	Skipjack Tuna	D.77
D-4-2	Bigeye Tuna	D.77
D-4-3	Swordfish	D.78
D-4-4	Albacore Tuna	D.78
D-4-5	Yellowfin Tuna	D.79
D-4-6	Wahoo	D.79
D-4-7	Mahimahi	D.80
D-4-8	Blue Marlin	D.80
D-4-9	Striped Marlin	D.81
D-4-10	Moonfish (Opah)	D.81
D-4-11	Pomfret	D.82
D-4-12	Oilfish	D.82
D-4-13	Onaga	D.83
D-4-14	Bigeye Scad	D.83

STATE OF HAWAII 2014 FISHERY STATISTICS

INTRODUCTION

The Hawaiian Archipelago stretches across about 1,500 miles in the Northwestern Pacific, from its most northwestern remote atoll (Kure) to its most southeastern and largest island (Hawai'i).

Location: 19° N latitude, 155° W longitude to about 28° N latitude and 178° W longitude

Main Hawaiian Islands: Hawai'i, Maui, Lana'i, Moloka'i, O'ahu, Kaua'i, Kaho'olawe, and Ni'ihau (the eight islands at the southeast end of the Archipelago that include over 99% of the total land area and population) Kaua`i

O`ahu
Moloka`i

Lana`i
Maui

Kaho`olawe

Main Hawaiian Islands: copied and modified from: http://satftp.soest.hawaii.edu/space/hawaii/maps/All_Islands_map.710x509.gif SOEST Satlab Server

Population: 1,419,561

(https://data.hawaii.gov, July 2014)

Commercial Catch Breakdown by Island (lbs):

About 89% landed on O'ahu, 8% on Hawai'i ("the Big Island"), 1.5% on Maui, 1% on Kaua'i, and less than 1% on each of the other islands (or in some cases amount unspecified)

The commercial fisheries of the State of Hawaii are quite diverse. They vary from shore-based harvesting of *limu* (marine algae) and invertebrates by hand, to large vessel-based offshore fisheries, such as the high seas pelagic longline fishery. There are several major fisheries (highest volume and economic value), including various types of tuna fishing (longline and a variety of smaller pelagic gears); deepwater hook-and-line (bottomfishing) using hydraulic reals for snappers, carangids, and an endemic Hawaiian grouper; various forms of net fishing that target near-shore pelagic, estuarine and reef fishes, and inshore and offshore crabs; and trolling for pelagic species such as tuna, billfishes, *ono* (wahoo), and mahimahi.

Hawaii Revised Statutes (HRS §189-2 and §189-3) define commercial fishing to include anyone who sells any portion of their catch (even a single fish), including charter fishing services. Commercial fishers have been required for decades to purchase an annually renewable commercial marine license and report their catch and effort to the Hawaii Department of Land and Natural Resources (DLNR), Division of Aquatic Resources (DAR), on a monthly basis. Since 1999, commercial fish dealers have also had reporting requirements to DAR. In 2014, there were 3,720 licensed commercial fishers. The summary catch data presented in this volume for 2014 were created from a combination of fisher and dealer reported data, processed through DAR's Dealer Reporting System (DRS) and Fisherman

Reporting System (FRS), and federal longline logbook data, processed by PIFSC's Fisheries Research and Monitoring Division (FRMD).

Since October 2007, federal and state fisheries management mandates have required implementation of a fishing quota to end overfishing of seven deepwater bottomfish species within the main Hawaiian Islands (MHI). Known as the "Deep 7", these species include six eteline snappers and the endemic Hawaiian grouper. They are listed individually in the Species Categories section (page D.10). This additional management requirement made it necessary for DAR and NOAA Fisheries to develop a system to closely monitor the fishery and forecast when the cumulative landings limit would be reached, in order to implement timely closure. This monitoring system was designed to provide sufficient leeway to accommodate uncertainty related to the delay in receiving monthly fishing reports, as required by law. For the fishing years 2008 through 2011, the quota was referred to as the "Total Allowable Catch" (TAC). In each of the first 4 fishing years under management via the TAC, the cumulative Deep 7 landings quota was exceeded. The first few years of TAC management employed a variable closed season during the late spring to early fall. The beginning of the fishing year varied somewhat initially, but settled on September 1 after the first two years, in keeping with the implementation date of the Magnuson-Stevenson Reauthorization Act of 2006 (MSRA).

Beginning in September 2011, in accordance with MSRA, the MHI Deep 7 bottomfish fishery came under management via an Annual Catch Limit (ACL), with more rigorous constraints than had existed under the TAC. Under the new management regime, an Annual Catch Target (ACT) was set at 6% below the quota and used to monitor and manage the fishery to avoid exceeding the ACL. Additionally, in 2011 DAR implemented a bottomfish trip-level reporting requirement, with a five-day deadline for reporting after the end of each trip. The new trip reporting requirements, along with measures such as online reporting were developed to increase timeliness and make it possible to track bottomfish landings on a near real-time basis, reducing uncertainty and making it more feasible to avoid exceeding the ACL. In 2013, the high compliance rate with trip reporting requirements eliminated the need for the ACT. Since ACL management has been established, the fishery has never been closed.

In 2014, the fishing season opened on September 1, 2014, without an ACL. The Council recommended an ACL, based on an updated Bottomfish Stock Assessment Report. The Council Scientific and Statistical Committee (SSC) recommended a phased-in annual ACL reduction for the MHI Deep 7 over the next three years, ending in 2018. At that time, NOAA Fisheries will be providing another stock assessment report.

In 2014, NOAA fisheries used the 2011 Bottomfish Stock Assessment Report as the best available information (updated with landings for 2011 through 2013) and set the ACL at 346,000 pounds. The fishing season closed at midnight on August 31, 2015, with 306,054 pounds landed (88.45% of the ACL), and reopened on September 1, 2015 (the next day). For more information about this fishery, please visit http://www.hawaiibottomfish.info.

Since 1975, commercial collectors of tropical marine fishes and invertebrates in Hawaii have been required to have an aquarium permit. If they intended to sell their harvest, they are also required to obtain a commercial marine license and submit monthly catch reports, using the Aquarium Fish Catch Report form (also found on the WPacFIN website). In January 2012,

the commercial Aquarium Fishing Report was amended to include more detailed information on the fishing methods used, percentage of time fishing with each, and net length (if a barrier was used). The new aquarium data collection form (also on the WPacFIN website) includes vessel identification, dive time, total harvest and amount of the catch sold.

Around this time, DAR also made revisions to the fishing area map used in reporting for the aquarium fishery, which subdivided fishing zones on the Northwestern and Western (Kona) coast of the island of Hawai'i. Hawaii Administrative Rule (HAR §13-60.4) codified changes for the West Hawaii Regional Fishery Management Area (WHRFMA), which became effective on December 26, 2013. In May 2014, the revised WHRFMA Aquarium Fishing Report form was provided to Kona fishermen for reporting purposes. This localized report includes the new WHRFMA sub-zones, lists only the 40 species that fishermen are allowed to take in the WHRFMA ("White List Species"), and collects size and sex data for selected species. Only fishers fishing in the WHRFMA for white list species are required to report on this form. For more information, please reference HAR §13-60.4 at http://dlnr.hawaii.gov/dar/files/2014/05/ch60.4.pdf.

DLNR uses the fishing catch and effort data collected for the aquarium fishery and other commercial fisheries to monitor and manage this important coral reef ecosystem and the fisheries it sustains. Although some organisms harvested for the aquarium industry are juveniles and adults of species that are also caught for food, the majority are smaller ornamental species. Historically, trends in the aquarium (live ornamental) fishery have been evaluated separately from non-aquarium fisheries. Therefore, aquarium fish catch statistics are currently not included in this report.

NORTHWESTERN HAWAII ISLANDS MARINE NATIONAL MONUMENT

On June 15, 2006, a presidential proclamation established the Northwestern Hawaiian Islands (NWHI) as the Papahānaumokuākea Marine National Monument. The NWHI bottomfish fishery was slated to close in June 2011, under the Executive Orders that created the NWHI Coral Reef Ecosystem Reserve. However, a "buyout" program for fishing permits was completed in January 2010, which effectively closed the fishery when all of the permit holders surrendered their permits in return for federal compensation. For more information about the Monument, please visit http://www.papahanaumokuakea.gov.

DATA COLLECTION

Prior to 2002, data processed in the Reported Landings tables and charts presented in this section were collected from various Fishermen's Reporting System (FRS) forms. Beginning in October 2002, DAR implemented the use of several new FRS forms that no longer required sales information from fishermen. At the same time, fishermen submitting FRS data were asked to provide more detailed catch, effort, and bycatch statistics. Sales and value data collection from fish dealers (instead of fishermen) were phased in, over roughly the same time period. The FRS data processing and summary system was modified to accommodate the use of these new forms.

In February 2010, DAR launched an Online Fishing Report System (OFRS) that allows licensed commercial fishers to file the Monthly Fishing Report electronically. The Monthly Fishing Report accounts for about 95% of commercial landings reports received by DAR. In 2014, nearly 66% of the monthly fishing reports were filed online. This trend towards increased online reporting has produced benefits for both fishers and DAR. Online reporting has reduced paper work and postage for both parties, and as well as printing expenses for DAR. It has also encouraged fishers to file their monthly reports on time and receive instant confirmation that the report was received and credited. DAR requires less staff time to enter fishing report data into the FRS, and the electronic fish report records have fewer discrepancies, because data validation tables are built into the online reporting application. This reduces the need for follow up by staff to correct or verify reporting issues. MHI Deep 7 bottomfish fishing trip reports can also be filed online, making it easier to meet the 5-day post trip reporting requirement. During 2014, about 76% of the Deep 7 trip reports were filed electronically.

The fishing reports collect data on catch (by species) and fishing effort for each day, method, and area fished. These data are processed in the FRS. Information collected includes:

- Fisherman's Name and Commercial License Number
- Boat's Name and Registration/USCG Number Net Length (if applicable)
- Day, Month, and Year Fished
- Charter Trip (y/n)
- Buoy (fish aggregation device) or Area Fished Number Landed
- Fishing Method
- Hours Fished per Method/Area
- Number of Net Sets

- Number of Fishing Lines or Traps
- Port of Landing
- **Species**
- Pounds Landed (estimated by fisher)
- Number Lost
- Number Released

Other FRS data collection forms include the Net, Trap, and Dive Activity Report, Tuna Handline Trip Report, Deep Sea Handline Trip Report, Aku Boat Report, NWHI Bottomfish Trip Sales Report, the NWHI Bottomfish Trip Daily Log, and the Aquarium Fish Trip Report. These forms can be viewed on the WPacFIN website. In September 2011, the use of a MHI Deep 7 Bottomfishing Trip Report form was implemented, to help track and validate landings of Deep 7 species more quickly and manage the ACL. A copy of this report form, which records data listed above (fields applicable to bottomfishing), is also available on the website.

In 2000, the Dealer Reporting System (DRS) data processing and summary system was fully implemented, and is now a major source of sales data used to create the tables and charts provided in this publication. Dealers are required to submit a Commercial Marine Dealer's Report under DLNR Administrative Rules (authorized under HRS §189-10) for each month that they are in the business of purchasing marine life. Information collected includes:

- Dealer Name
- Dealer License Number
- Date, Month, and Year
- First and Last Name from Whom Fish was Bought
- Fisherman's Commercial Marine License Number
- Condition sold (whole, gilled, gutted, fillet, etc.)

- Species
- Pounds Purchased
- Number of Pieces
- Amount Paid

Data from the NOAA Fisheries Longline Logbook Program are integrated with DRS and FRS data to create the summaries presented in this report. The dealer data are used to estimate weight and value of the catch. This report assumes that the data submitted by fishers are complete and accurate. DAR and PIFSC continually strive to improve quality and decrease time lags in receiving and processing the data. For more information on Hawaii fisher and fish dealer licensing and reporting requirements, please visit http://hawaii.gov/dlnr/dar. For more information on federal longline logbooks, please visit https://www.pifsc.noaa.gov/frmd.

CIVIL RESOURCES VIOLATION SYSTEM

When fishers obtain a commercial marine license, they are required by Hawaii Administrative Rules (HAR) to report their fishing activities within 10 days after the end of the month. Prior to 2009, nearly 67% of licensed fishers failed to comply with the report submission deadline. In June 2009, DLNR-DAR implemented a Civil Resources Violation System (CRVS), to issue citations to licensed fishers who either did not comply with the deadline or submitted inaccurate data. The fishers who report late are assessed a small fine for the first offense, which increases progressively for subsequent offenses.

In 2014, 75% of the fishing reports were submitted on or before the report deadline. The compliance rate increased to about the mid-90th percentile by the following month. The CRVS is also used for noncompliance with MHI Deep 7 bottomfish fishing trip reporting requirements. In 2014, nearly 84% of bottomfish trip reports were received on or before the deadline. Based upon the significant reduction in the fish catch reporting delinquency rate, one of the primary goals of the CRVS has been achieved.

DLNR-DAR plans to pursue the secondary goal of the CRVS, which was to increase the accuracy of fish catch reporting. Policies and procedures, designed to match the fish catch reports (FRS) with the commercial fish dealer reports (DRS), and to contact both fishers and dealers to correct reporting discrepancies are being established. Fishers who do not cooperate or comply with the fish report data accuracy requirement may be subject to CRVS action. DLNR-DAR is attempting to establish HAR to issue a commercial marine dealer license as

¹ Only the MHI Deep 7 Bottomfishing Trip Reports are required to be submitted within 5 days after the trip ends.

well, which would enable DLNR to better monitor and enforce accurate fish sales reporting requirements for marine dealers.

DATA PROCESSING

When DAR receives fishing report forms in the mail, staff reviews and enters the data into the OFRS. Data entered online are imported into the FRS electronically. Once in the system, the staff checks and edits the data, as necessary. Reports that fail initial quality control screening and editing are returned for correction and resubmittal, or minor problems may be cleared up over the telephone. The CRVS issues citations to fishers who are either delinquent or have reported inaccurate data. When the data are considered to be reasonably complete and error free, they are ready for use in producing various summary reports.

DATA REPORTING

More than 150 marine species and/or groups are recorded in DAR's monthly landings reports, many of which represent an insignificant portion of the total catch. To help reduce this document's size and improve the utility of the tables, WPacFIN staff has combined some of the lower volume and value species into groups, reorganized the order of presentation, and created a system to translate these groupings from the database (which is now under review). The current data summary system has 100 species or groups, based on flexible ecological and phylogenetic criteria. Data are reported separately for most commercially important pelagic and bottomfish species, and unique groups. Some of the other higher taxonomic categories (e.g., herrings/sardines), are the sum of the totals by species reported by commercial fishermen. This is distinctive from reports for the other island areas, where groups generally represent data not identified to species by fishermen or vendors (referenced as "unspecified" throughout all sections of this report).

The monthly and annual tables included in this document contain the scientific and common name, pounds landed ("caught"), pounds sold, estimated sales value (rounded to the nearest dollar), and average price per pound for each species. Data on the weight landed are based on the numbers reported by fishermen in federal longline logbooks and FRS catch reports. Weights for non-longline data are cross-checked, using FRS and DRS data. The value and price per pound data are calculated from DRS data. Each monthly report contains a subtotal for the sum of all species for that month. Several types of graphs are also included. Please note that some of the charts in this volume are new or have been modified from earlier volumes. To see the most current data and charts, please visit the WPacFIN website (https://www.pifsc.noaa.gov/wpacfin).

SPECIES CATEGORIES

The species and/or groups used in the tables and graphs are described in the following section. Many of the species included in this report have been placed into different management categories over the years. For example, the Magnuson Fishery Conservation and Management Act of 1976 was amended in 1992 to include tunas in the Pelagic Management Unit Species (PMUS) category. However, this report maintains the original species categories from previous FSWP reports for ease of comparison across historical volumes. As such, tunas are kept in a separate category. To see the most current taxonomic information for species caught commercially in Hawaii, and in other US-associated Pacific island areas, please visit the WPacFIN website.

I. Pelagic Management Unit Species (PMUS)

Billfishes/Unspecified (includes marlins, swordfish, sailfish and shortnose spearfish)

Black marlin (Istiompax indica)

Blue marlin (Makaira mazara)

Mahimahi (most Coryphaena hippurus, some C. equiselis)

Sailfish (Istiophorus platypterus)

Sharks (mainly *Isurus oxyrinchus, Isurus paucus*, and *Carcharhinus*

Shortnose spearfish (Tetrapturus angustirostris)

Striped marlin (Kajikia audax) Swordfish (Xiphias gladius)

Wahoo (Acanthocybium solandri)

II. Bottomfish Management Unit Species (BMUS)

Armorhead (Pseudopentaceros wheeleri)²

Butaguchi/Pig-lipped ulua (Pseudocaranx dentex)

Ehu/Red snapper (Etelis carbunculus)

Gindai/Flower snapper (Pristipomoides zonatus)

Gunkin/Black ulua (Caranx lugubris)

Hapu'upu'u/Hawaiian grouper (Hyporthodus quernus)

Kahala/Amberjack (Seriola dumerili) Kalekale (Pristipomoides sieboldii) Lehi/Silverjaw (Aphareus rutilans)

Onaga/Red snapper (Etelis coruscans)

Opakapaka/Pink snapper (Pristipomoides filamentosus)

Ta'ape/Blue-lined snapper (Lutjanus kasmira)

Uku/Gray snapper (Aprion virescens)

White ulua³/Giant trevally (Caranx ignoblis) Yellow-tail kali (Pristipomoides auricilla)

III. Billfishes

Billfishes/Unspecified (described above in PMUS)

Black marlin (Istiompax indica)
Blue marlin (Makaira mazara)

Sailfish (Istiophorus platypterus)

Shortnose spearfish (Tetrapturus angustirostris)

Striped marlin (Kajikia audax) Swordfish (Xiphias gladius)

² Armorhead are seamount groundfish, formerly managed along with BMUS.

³ *Ulua* is a general term for adult jacks and trevallies.

IV. Tunas

Albacore tuna (Thunnus alalunga) Skipjack tuna (Katsuwonus pelamis)

Bigeye tuna (Thunnus obesus)

Tunas (unspecified)⁴

Kawakawa (Euthynnus affinis)

Yellowfin tuna (Thunnus albacares)

V. Other Scombrids

Dogtooth tuna (Gymnosarda unicolor) (See footnote 4)

VI. Fisheries Categories

A. Pelagic Fishes

Albacore tuna (Thunnus alalunga) Pomfret (Taractichthys steindachneri, Eumegistus illustris, Bramma spp.)

Barracudas (various *Spyraena* spp.)

Rainbow runner (*Elagatis bipinnulata*)

Bigeye tuna (*Thunnus obesus*)

Rays (most common *Aetobatus narinari*)

Billfishes/Unspecified (described above in PMUS and Billfishes) Sailfish (Istiophorus platypterus)

Black marlin (Istiompax indica) Sharks (described above in PMUS)

Blue marlin (Makaira mazara) Shortnose spearfish (Tetrapturus angustirostris)

Japanese mackerel (Scomber japonicus)

Skipjack tuna (Katsuwonus pelamis)

Kawakawa (Euthynnus affinis)

Striped marlin (Kajikia audax)

Mahimahi (Comphagna hippurus Cognisalis)

Swordfish (Vinhias aladius)

Mahimahi (Coryphaena hippurus, C. equiselis) Swordfish (Xiphias gladius)

Moonfish/Opah (Lampris guttatus)

Oilfish (Ruvettus pretiosus, Thyrisitoides marleyi)

Tunas/Unspecified (See footnote 4)
Wahoo (Acanthocybium solandri)

Pelagic fishes (unspecified)

Yellowfin tuna (Thunnus albacares)

⁴ This group includes species that comprise a very small portion of the tuna catch, including unidentified tunas. Because DAR has a single code for

[&]quot;miscellaneous tunas", that is also used for dogtooth "tuna" (which are not actually tunas), this group is combined with "other scombrids" in some of the charts.

B. Bottomfishes (and one Seamount Groundfish) "Deep 7 Bottomfish" are marked with an asterisk (*)

Armorhead (Pseudopentaceros wheeleri)

Blue trevally (Carangoides ferdau)

Butaguchi/Pig-lipped ulua (Pseudocaranx dentex)

Dobe ulua (Uraspis helvola)

*Ehu/Red snapper (Etelis carbunculus)

*Gindai/Flower snapper (*Pristipomoides zonatus*) Golden kalekale (*Erythrocles schlegelii*, *E. scintillans*)

Gunkin/Black ulua (Caranx lugubris)

*Hapu'upu'u/Hawaiian grouper (Hyporthodus quernus)

Jacks/Unspecified (various Carangids) Kahala/Amberjack (Seriola dumerili)

*Kalekale (Pristipomoides seiboldii)

*Lehi/Silverjaw (Aphareus rutilans)

*Onaga/Red snapper (Etelis coruscans)

*Opakapaka/Pink snapper (Pristipomoides filamentosus)

Papa ulua (Caranx orthogrammus)

Porgy/Mu/Bigeye emperor (Monotaxis grandoculis)

Roi/Blue spot grouper (Cephalopholis argus)

Sasa ulua (Caranx sexfasciatus)

Snake mackerel (various Gempylids)

Snappers (unspecified) (various Lutianids)

Ta'ape/Blue-lined snapper (Lutjanus kasmira)

Uku/Gray snapper (Aprion virescens)

White ulua /Giant trevally (Caranx ignobilis)

Yellow-tail kali (Pristipomoides auricilla)

C. Reef Fishes

Aholehole/Hawaiian flagtail (Kuhlia sandvicensis)

Bigeyes/glasseyes (Heteropriacanthus cruentatus, and various Priacanthus spp.)

Damselfishes (Abudefduf sordidus, A. vaigiensis, A. abdominalis)

Filefishes (various Monacanthidae)

Flounders (Bothus mancus, Bothus pantherinus)

Goatfishes (various Mullidae)

Gobies (various Gobiidae, including endemics)

Hawkfish (Cirrhitus pinnulatus)

Parrotfishes (various Scaridae)

Pufferfishes (Diodontidae and Tetraodontidae)

Reef fishes (multiple families, unspecified)

Reef jacks (Caranx melampygus, Gnathanodon speciosus, Alectis

ciliaris, various other Caranx spp.)

Rudderfishes (up to six *Kyphosus* spp.) Scorpionfishes (various Scorpaenidae)

Squirrelfishes (Sargocentron spp., Neoniphon spp.)

Surgeonfishes/tangs (many Acanthuridae)

Tilapia (Oreochromis sp., introduced)

Trumpetfishes (various Aulostomidae & Fistulariidae)

Wrasses (diverse Labridae)

D. Other Fishes, Algae & Invertebrates

Algae/Limu (mainly Asparagopsis taxiformis, various Gracilaria spp.)

Bigeye scad/Akule (Selar crumenophthalmus)

Bonefishes (up to four *Albula* spp.)

Clams (various Bivalvia)

Crabs (Ranina ranina, various Brachyura)

Eels (mainly *Gymnothorax* spp.) Flying fishes (various Exocoetidae)

Herrings/sardines (Etrumeus sadina, various Clupeidae)

Invertebrates/Other (black coral, various urchins, holothurians, gastropods, etc.) Squid (various Teuthoidea)

Leatherjacket (Scomberoides lysan)

Milkfish (Chanos chanos)

Mullets (mainly Mugil cephalus)

Needlefishes (various Belonidae) Octopus (mainly *Octopus cyanea*)

Opihi/Limpets (saltwater *Cellana* spp.)

'Opelu/Mackerel scad (Decapterus macarellus)

Shrimp, saltwater (Heterocarpus laevigatus, Heterocarpus ensifer)

Silversides (Iso hawaiiensis)

Slipper lobsters (mainly Scyllarides squammosus) Spiny lobsters (Panulirus marginatus, P. penicillatus)

Ten pounder (Elops hawaiensis)

Threadfin (Polydactylus sexfilis)

(This page is intentionally left blank.)

Table D-1 Hawaii Annual 2014 Estimated Commercial Landings

Group Subgroup		II. C. IV	Estimated	Estimated Value of Sold	Price/
Scientific Name	Common/local name	Lbs. Caught	Lbs. Sold	Portion (\$)	Lb.
FISHES:					
Scombridae					
Tunas					
Euthynnus affinis	Kawakawa	26,284	12,627	35,195	2.79
Katsuwonus pelamis	Skipjack tuna	653,613	498,227	675,072	1.35
Thunnus alalunga	Albacore tuna	536,664	502,596	996,827	1.98
Thunnus albacares	Yellowfin tuna	3,520,031	3,313,417	11,256,486	3.40
Thunnus obesus	Bigeye tuna	16,377,228	15,948,589	60,704,446	3.81
Tribe Thunnini	Tunas (unspecified)	4,269	3,684	12,466	3.38
(unspecified)	Tunus (unspecimen)	.,= 0 >	2,00	12,.00	0.00
Other scombrids	TT 1	1 1 6 7 0 7 0	1 0 7 7 0 0 4	2 001 602	2.65
Acanthocybium solandri	Wahoo	1,167,870	1,055,994	2,801,682	2.65
Scomberoides lysan	Leatherback	272	272	654	2.40
Billfishes					
Suborder: Xiphioidei	Billfishes (unspecified)	1,528	382	627	1.64
Istiophoridae					
Istiompax indica	Black marlin	21,719	21,719	33,623	1.55
Istiophorus platypterus	Sailfish	45,304	34,466	33,403	0.97
Kajikia audax	Striped marlin	1,076,485	1,076,485	1,557,080	1.45
Makaira mazara	Blue marlin	1,507,813	1,220,253	1,606,730	1.32
Tetrapturus angustirostris	Shortnose spearfish	512,795	499,939	520,300	1.04
Xiphiidae					
Xiphias gladius	Broadbill swordfish	3,142,186	2,479,617	5,404,584	2.18
Other fishes					
Acanthuridae (tangs, surgeons	, unicornfishes)				
Acanthurus spp.,	Surgeons/tangs	105,574	98,688	188,184	1.91
Ctenochaetus spp.	(unspecified)	105,574	90,000	100,104	1.71
Albulidae (bonefishes)					
Albula glossodonta, A. neoguinaica	Oio (bonefish)	7,887	5,431	7,852	1.45
Aulostomidae (trumpetfishes)					
` - /	T	2.47	1.65	245	1 40
Aulostomus spp.	Trumpetfish	347	165	245	1.49
Belonidae (needlefishes)					
Belonidae (unspecified)	Needlefish	653	653	1,903	2.91
Bothidae (left-eye flounders)					
Bothidae (unspecified)	Flounders	23	23	44	1.94
Bramidae (pomfrets)					
Taractichthys, Eumegistus,					
Brama (unspecified)	Pomfret	1,243,354	1,243,354	2,466,869	1.98
Carangidae (jacks & trevallies)					
Carangidae (unspecified)	Ulua/Jacks (unspecified)	2,740	450	1,303	2.90
Carangidae (unspecified)	Reef jacks (ulua)	132	132	532	4.04
Carangoides ferdau	Barred ulua	7,618	2,800	8,412	3.00
Carangoides orthogrammus	Papa ulua	7,696	7,019	29,880	4.26

Table D-1 Hawaii Annual 2014 Estimated Commercial Landings

Group				Estimated	
Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Value of Sold Portion (\$)	Price/ Lb.
Caranx ignobilis	White ulua	11,979	7,902	22,830	2.89
Caranx lugubris	Black ulua	460	460	1,096	2.38
Caranx sexfasciatus	Sasa ulua	288	57	164	2.88
Pseudocaranx dentex	Butaguchi (pig-lipped ulua)	420	336	948	2.82
Seriola dumerili	Kahala (amberjack)	12,977	2,699	5,614	2.08
Uraspis helvola	Dobe ulua	4,149	2,198	6,030	2.74
Decapterus macarellus	Mackerel scad (ōpelu)	243,784	158,546	458,747	2.89
Selar crumenopthalmus	Bigeye scad (akule)	292,779	197,621	669,524	3.39
Elagatis bipinnulata	Kamanu (rainbow runner)	5,114	4,586	8,610	1.88
Chanidae (milkfish)					
Chanos chanos	Milkfish (awa)	1,938	1,938	3,052	1.57
Cichlidae (cichlids)					
Oreochromis sp.	Tilapia	3,032	242	857	3.54
Cirrhitidae (hawkfishes)					
Cirrhitus pinnulatus	Po'opa'a (hawkfish)	1,305	1,305	4,099	3.14
Clupeidae, Dussumieriidae (s	• '	,	,	,	
Clupeidae, Dussumieriidae (unspecified)	Herring/sardine	7,876	5,393	11,736	2.18
Coryphaenidae (mahimahi/do	lphinfish)				
Coryphaena hippurus, C. equiselis	Mahimahi	1,820,804	1,690,283	4,415,756	2.61
Elopidae (ladyfishes, tarpons,	tenpounders)				
Elops hawaiensis	Hawaiian ladyfish (awa'awa)	689	323	462	1.43
Emmelichthyidae (rovers)	()				
Erythrocles scintillans	Golden kalekale	241	49	168	3.42
Gempylidae (snake mackerels)				
Ruvettus pretiosus	Oilfish (walu)	531,556	531,556	406,883	0.77
Holocentridae (squirrel & solo	` '				
Sargocentron spp.	Squirrelfish	53,541	52,745	238,439	4.52
Kuhliidae (flagtails)	~ 1	22,213	,,,		
Kuhlia spp.	Aholehole (flagtails)	1,694	1,446	6,889	4.76
Kyphosidae (sea chubs)	Anoichoic (nagians)	1,094	1,440	0,009	4.70
· ·	NI (4.4 (*-4.1)	17 (20	15 210	20.157	1.05
Kyphosus spp. (various)	Nenue (rudderfish)	16,638	15,218	28,157	1.85
Labridae (wrasses)					
Labridae (unspecified)	Hinalea (wrasse)	7,316	4,963	23,503	4.74
Lampridae (moonfishes, opah)				
Lampris guttatus	Moonfish (opah)	2,214,492	2,004,422	2,909,738	1.45
Lethrinidae (emperors)					
Monotaxis grandoculis	Mu (bigeye emperor)	3,549	3,549	12,348	3.48

Table D-1 Hawaii Annual 2014 Estimated Commercial Landings

oup Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Estimated Value of Sold Portion (\$)	Price/ Lb.
Lutjanidae (snappers)					
Aphareus rutilans	Lehi (silverjaw)	8,568	8,401	39,152	4.66
Aprion virescens	Uku (gray snapper)	96,813	82,436	366,142	4.44
Etelis carbunculus	Ehu (red snapper)	28,539	22,563	136,452	6.05
Etelis coruscans	Onaga (red snapper)	79,440	68,910	557,240	8.09
Lutjanidae (unspecified)	Snappers	5,303	4,026	16,636	4.13
Lutjanus kasmira	Ta'ape (blue-lined snapper)	30,271	16,842	28,875	1.71
Pristipomoides auricilla	Yellow-tail kalekale	37	36	107	3.02
Pristipomoides filamentosus	Opakapaka (pink snapper)	165,308	148,822	1,011,797	6.80
Pristipomoides sieboldii	Kalekale	18,557	14,596	57,126	3.91
Pristipomoides zonatus	Gindai (flower snapper)	3,076	2,213	10,625	4.80
Monacanthidae (filefishes)					
Aluterus monoceros	Filefish	1,360	1,180	2,243	1.90
Mugilidae (mullets)					
Mugilidae (unspecified)	Mullet	7,818	7,705	32,912	4.27
Mullidae (goatfishes)					
Mullidae (unspecified)	Goatfish	74,882	53,598	245,087	4.57
Muraenidae, Congridae (mari	ne eels)				
Gymnothorax, Conger spp.	Eels	2,585	986	1,358	1.38
Polynemidae (threadfins)		•		ŕ	
Polydactylus sexfilis	Threadfin (moi)	428	181	1,338	7.41
Pomacentridae (damselfishes)	` ′			,	
Abudefduf spp.	Damselfish (unspecified)	960	861	2,875	3.34
Priacanthidae (glasseyes)					
Priacanthus spp.	Bigeyes/glasseyes	7,283	6,918	27,502	3.98
Scaridae (parrotfishes)					
Scaridae (unspecified)	Uhu (parrotfishes)	73,732	73,686	288,609	3.92
Scorpaenidae (scorpionfishes)	,				
Scorpaenidae (many species)	Scorpionfish (nohu)	2,276	1,762	11,783	6.69
Sharks (Selachii)					
Infraclass: Selachii (multiple orders)	Sharks	130,934	103,945	112,630	1.08
Serranidae (groupers)					
Cephalopholis argus	Roi	1,472	1,289	3,910	3.03
Hyporthodus quernus	Hapuupuu (Hawaiian grouper)	9,940	8,319	46,285	5.56

Table D-1 Hawaii Annual 2014 Estimated Commercial Landings

Group Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Estimated Value of Sold Portion (\$)	Price/ Lb.
Sphyraenidae (barracudas)					
Sphyraena spp.	Barracudas	18,591	18,591	18,277	0.98
Unspecified Fish Groups					
Unknown	Pelagic fishes (unspecified)	33	33	3	0.10
Various families (unspecified)	Reef fishes	540	77	75	0.98
Miscellaneous Seafood (insuff Unknown fish/invertebrates	ficient information) Miscellaneous (unspecified)	3,748	3,597	5,237	1.46
INVERTEBRATES:					
Crustaceans: Crabs Infraorder: Brachyura (unspecified)	Crabs	36,440	25,686	112,382	4.38
Crustaceans: Lobsters					
Panulirus penicillatus, P. marginatus	Spiny lobster	10,971	9,537	104,028	10.91
Scyllarides spp.	Slipper lobster	170	105	840	8.00
Crustaceans: Shrimps Heterocarpus spp., Penaeus marginatus	Shrimp (saltwater)	48,707	15,594	101,446	6.51
Mollusks					
<i>Cellana</i> spp. Cephalopoda,	Limpets (saltwater)	22,508	11,139	72,691	6.53
Decapodiformes (unspecified)	Squid	4,312	3,137	10,586	3.37
Octopus spp.	Octopus	34,330	20,343	92,665	4.56
Invertebrates (unspecified)					
Invertebrates (multiple phyla)	Invertebrates	1,705	1,496	117,820	78.76
ALGAE:					
Phyla: Rhodophyta, Chlorophyta (unspecified)	Algae (limu, unspecified)	6,295	6,070	64,612	10.64
	Total	36,144,638	33,459,499	\$101,281,395	\$3.03

Note: Species with any amount of annual sales are included in Tables D-1 through D-13, although no commercial sales are registered for some of them during one or more months.

Table D-2 Hawaii January 2014 Estimated Commercial Landings

Group				Estimated	
Subgroup		Lbs.	Estimated	Value of Sold	Price/
Scientific Name	Common/local name	Caught	Lbs. Sold	Portion (\$)	Lb.
FISHES:					
Scombridae					
Tunas					
Euthynnus affinis	Kawakawa	552	81	232	2.87
Katsuwonus pelamis	Skipjack tuna	106,991	95,747	100,116	1.05
Thunnus alalunga	Albacore tuna	57,249	52,173	128,581	2.46
Thunnus albacares	Yellowfin tuna	388,065	388,065	1,556,177	4.01
<i>Thunnus obesus</i> Tribe Thunnini	Bigeye tuna	1,236,425	1,236,425	5,506,529	4.45
(unspecified)	Tunas (unspecified)	388	300	708	2.36
Other scombrids					
Acanthocybium solandri	Wahoo	66,002	62,754	195,617	3.12
Scomberoides lysan	Leatherback	9	6	13	2.16
Billfishes	Doutherough		· ·	13	2.10
Istiophoridae	Dlask madin	1.602	1.602	4.105	2.42
Istiompax indica	Black marlin Sailfish	1,692	1,692 495	4,105	2.43 2.06
Istiophorus platypterus Kajikia audax	Striped marlin	6,412 112,984	493 112,984	1,021 190,894	2.06 1.69
Кајікій йиййх Makaira mazara	Blue marlin	49,728	34,812	85,903	2.47
Tetrapturus angustirostris	Shortnose spearfish	91,154	85,265	54,012	0.63
Xiphiidae	Shorthose spearnsh	71,154	03,203	34,012	0.03
•	D 11.11 10.1	126.750	20.216	72.554	2.64
Xiphias gladius	Broadbill swordfish	136,750	20,216	73,554	3.64
Other fishes					
Acanthuridae (tangs, surgeons					
Acanthurus, Ctenochaetus	Surgeons/tangs	8,343	7,602	14,991	1.97
spp.	(unspecified)	ŕ	ŕ	•	
Albulidae (bonefishes)					
Albula glossodonta, A. neoguinaica	Oio (bonefish)	762	138	183	1.33
Aulostomidae (trumpetfishes)					
Aulostomus spp.	Trumpetfish	6	6	12	1.95
Belonidae (needlefishes)	P				
Belonidae (unspecified)	Needlefish	99	99	324	3.27
Bramidae (pomfrets)	receiving		,,,	321	3.27
-					
Taractichthys, Eumegistus, Brama (unspecified)	Pomfret	97,880	97,880	203,744	2.08
Carangidae (jacks & trevallies	s)				
Carangidae (unspecified)	Ulua/Jacks (unspecified)	36	13	26	2.00
Carangoides ferdau	Barred ulua	279	62	180	2.91
Carangoides	Papa ulua	442	442	1,545	3.49
orthogrammus	_				
Caranx ignobilis	White ulua	1,281	577 35	1,942	3.37
Caranx lugubris Caranx sexfasciatus	Black ulua Sasa ulua	35 35	35 6	112 18	3.25 3.00
Curum senjusciuius	Sasa urua	33	O	10	3.00

Table D-2 Hawaii January 2014 Estimated Commercial Landings

Group				Estimated	
Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Estimated Value of Sold Portion (\$)	Price/ Lb.
Pseudocaranx dentex	Butaguchi (pig- lipped ulua)	56	0	0	0
Seriola dumerili	Kahala (amberjack)	1,334	46	106	2.31
Uraspis helvola	Dobe ulua	148	114	228	2.00
Decapterus macarellus	Mackerel scad (ōpelu)	17,806	14,230	41,782	2.94
Selar crumenopthalmus Elagatis bipinnulata	Bigeye scad (akule) Kamanu (rainbow	13,451	7,436	26,072	3.51
O 1	runner)	419	272	428	1.57
Chanidae (milkfish)					
Chanos chanos	Milkfish (awa)	87	41	88	2.15
Cirrhitidae (hawkfishes)					
Cirrhitus pinnulatus	Po'opa'a (hawkfish)	245	245	758	3.10
Coryphaenidae (mahimahi/d	lolphinfish)				
Coryphaena hippurus, C. equiselis	Mahimahi	48,603	43,070	148,173	3.44
Elopidae (ladyfishes, tarpons	, tenpounders)				
Elops hawaiensis	Hawaiian ladyfish (awa'awa)	39	39	48	1.25
Emmelichthyidae (rovers)					
Erythrocles scintillans	Golden kalekale	31	7	19	2.71
Gempylidae (snake mackere	ls)				
Ruvettus pretiosus	Oilfish (walu)	60,893	60,523	30,651	0.51
Holocentridae (squirrel & so	ldierfishes)				
Sargocentron spp. Kuhliidae (flagtails)	Squirrelfish	3,057	2,736	12,900	4.72
Kuhlia spp.	Aholehole (flagtails)	143	117	604	5.18
Kyphosidae (sea chubs)	()	- 12			
Kyphosus spp. (various)	Nenue (rudderfish)	480	404	846	2.09
Labridae (wrasses)	,				
Labridae (unspecified)	Hinalea (wrasse)	548	407	2,137	5.25
Lampridae (moonfishes, opa	· · · · · · · · · · · · · · · · · · ·				
Lampris guttatus	Moonfish (opah)	75,505	73,292	221,578	3.02
Lethrinidae (emperors)					
Monotaxis grandoculis	Mu (bigeye emperor)	178	178	537	3.02
Lutjanidae (snappers)					
Aphareus rutilans	Lehi (silverjaw)	1,205	1,166	5,074	4.35
Aprion virescens	Uku (gray snapper)	6,731	4,530	20,491	4.52
Etelis carbunculus Etelis coruscans	Ehu (red snapper) Onaga (red snapper)	3,579 11,445	2,956 9,612	15,144 74,772	5.12 7.78

Table D-2 Hawaii January 2014 Estimated Commercial Landings

Froup				Estimated	
Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Value of Sold Portion (\$)	Price/ Lb.
Lutjanidae (unspecified)	Snappers (unspecified)	157	150	576	3.85
Lutjanus kasmira	Ta'ape (blue-lined snapper)	1,509	1,063	2,026	1.91
Pristipomoides filamentosus	Opakapaka (pink snapper)	25,837	20,480	138,292	6.75
Pristipomoides sieboldii	Kalekale	2,720	1,997	7,385	3.70
Pristipomoides zonatus	Gindai (flower snapper)	500	366	1,622	4.43
Monacanthidae (filefishes)					
Aluterus monoceros	Filefish	64	64	127	1.98
Mugilidae (mullets)					
Mugilidae (unspecified)	Mullet	48	48	144	3.00
Mullidae (goatfishes)					
Mullidae (unspecified)	Goatfish	4,889	4,281	19,756	4.62
Muraenidae, Congridae (mar	ine eels)				
Gymnothorax spp., Conger spp.	Eels	60	19	29	1.55
Polynemidae (threadfins)					
Polydactylus sexfilis	Threadfin (moi)	17	1	8	8.00
Pomacentridae (damselfishes)					
Abudefduf spp.	Damselfish (unspecified)	115	104	353	3.39
Priacanthidae (glasseyes)					
Priacanthus spp.	Bigeyes/glasseyes	691	560	2,083	3.72
Scaridae (parrotfishes)					
Scaridae (unspecified)	Uhu (parrotfishes)	5,069	5,069	19,344	3.82
Scorpaenidae (scorpionfishes)					
Scorpaenidae (many species)	Scorpionfish (nohu)	239	180	1,074	5.95
Sharks (Selachii)					
Infraclass: Selachii (multiple orders)	Sharks	12,074	7,312	8,093	1.11
Serranidae (groupers)					
Cephalopholis argus	Roi	166	151	440	2.90
Hyporthodus quernus	Hapuupuu (Hawaiian grouper)	914	650	3,403	5.23
Sphyraenidae (barracudas)					
Sphyraena spp.	Barracudas	457	422	652	1.55

D.20

Table D-2 Hawaii January 2014 Estimated Commercial Landings

Group				Estimated	
Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Value of Sold Portion (\$)	Price/ Lb.
Unspecified Fish Groups					
Unknown	Pelagic fishes (unspecified)	21	21	2	0.10
Various families (unspecified)	Reef fishes (unspecified)	14	0	0	0
Miscellaneous Seafood (insuf)	ficient information)				
Unknown fish/invertebrates	Miscellaneous (unspecified)	123	123	345	2.81
INVERTEBRATES:					
Crustaceans: Crabs Infraorder: Brachyura					
(unspecified)	Crabs	4,020	3,226	12,382	3.84
Crustaceans: Lobsters					
Panulirus penicillatus, P. marginatus	Spiny lobster	1,775	1,293	14,381	11.13
Crustaceans: Shrimps					
Heterocarpus spp., Penaeus marginatus	Shrimp (saltwater)	11,656	1,400	10,145	7.25
Mollusks					
Cellana spp.	Limpets (saltwater)	2,175	865	5,563	6.43
Octopus spp.	Octopus	2,584	1,082	4,845	4.48
Invertebrates (unspecified)					
Invertebrates (multiple phyla)	Invertebrates	371	25	47	1.91
ALGAE:					
Phyla: Rhodophyta,	Algae (limu,	451	12.5	5 401	10.45
Chlorophyta (unspecified)	unspecified)	471	435	5,421	12.47
	Total	2,688,318	2,470,683	\$8,981,513	\$3.64

Table D-3 Hawaii February 2014 Estimated Commercial Landings

Group Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Estimated Value of Sold Portion (\$)	Price/ Lb.
FISHES:					
Scombridae					
Tunas	77 1	602	207	1 202	2.12
Euthynnus affinis	Kawakawa	692 50,834	386 38,618	1,203 36,875	3.12 0.95
Katsuwonus pelamis Thunnus alalunga	Skipjack tuna Albacore tuna	57,568	50,808	130,122	2.56
Thunnus albacares	Yellowfin tuna	415,269	415,269	1,571,546	3.78
Thunnus obesus	Bigeye tuna	1,090,773	1,050,319	4,133,134	3.94
Tribe Thunnini					
(unspecified)	Tunas (unspecified)	696	496	2,366	4.77
Other scombrids					
Acanthocybium solandri	Wahoo	73,155	66,701	206,783	3.10
Scomberoides lysan	Leatherback	19	5	11	2.50
Billfishes					
Suborder: Xiphioidei	Billfishes (unspecified)	255	0	0	
Istiophoridae	(
Istiompax indica	Black marlin	2,603	2,603	6,564	2.52
Istiophorus platypterus	Sailfish	3,442	378	815	2.16
Kajikia audax	Striped marlin	102,971	102,971	173,855	1.69
Makaira mazara	Blue marlin	73,774	37,529	80,944	2.16
Tetrapturus angustirostris	Shortnose spearfish	86,448	75,790	57,348	0.76
Xiphiidae	5 11:11 10:1	500 015	212.204	(20.250	1.00
Xiphias gladius	Broadbill swordfish	523,917	313,284	620,350	1.98
Other fishes					
Acanthuridae (tangs, surgeons	s, unicornfishes)				
Acanthurus spp.,	Surgeons/tangs	7,257	6,696	13,202	1.97
Ctenochaetus spp.	(unspecified)	1,231	0,070	13,202	1.77
Albulidae (bonefishes)					
Albula glossodonta, A. neoguinaica	Oio (bonefish)	538	187	217	1.16
Aulostomidae (trumpetfishes)					
Aulostomus spp.	Trumpetfish	41	16	22	1.38
Belonidae (needlefishes)	Tumpethon		10	22	1.50
` '	Na a dla Cal	66	66	264	4.00
Belonidae (unspecified)	Needlefish	66	66	264	4.00
Bothidae (left-eye flounders)					
Bothidae (unspecified)	Flounders	1	1	1	1.00
Bramidae (pomfrets)					
Taractichthys, Eumegistus, Brama (unspecified)	Pomfret	91,805	91,805	265,057	2.89
Carangidae (jacks & trevallies					
Carangidae (unspecified)	Ulua/Jacks (unspecified)	16	0	0	0
Carangoides ferdau	Barred ulua	406	74	230	3.11
Carangoides					
orthogrammus	Papa ulua	519	378	1,135	3.01
Caranx ignobilis	White ulua	1,102	517	1,818	3.52
Caranx lugubris	Black ulua	16	0	0	0

Table D-3 Hawaii February 2014 Estimated Commercial Landings

up Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Estimated Value of Sold Portion (\$)	Price/ Lb.
Caranx sexfasciatus	Sasa ulua	6	6	17	3.00
Pseudocaranx dentex	Butaguchi (pig-lipped ulua)	58	27	80	3.00
Seriola dumerili Uraspis helvola Decapterus macarellus	Kahala (amberjack) Dobe ulua Mackerel scad (ōpelu)	1,846 496 22,943	149 496 19,270	677 1,168 56,856	4.56 2.35 2.95
Selar crumenopthalmus Elagatis bipinnulata	Bigeye scad (akule) Kamanu (rainbow runner)	10,184 295	9,780 189	36,350 307	3.72 1.63
Chanidae (milkfish)	,				
Chanos chanos	Milkfish (awa)	100	100	250	2.50
Cirrhitidae (hawkfishes)					
Cirrhitus pinnulatus	Po'opa'a (hawkfish)	56	56	169	3.00
Clupeidae, Dussumieriidae (s	sardines/herrings)				
Clupeidae, Dussumieriidae (unspecified)	Herring/sardine	4,560	3,347	6,694	2.00
Coryphaenidae (mahimahi/do	lphinfish)				
Coryphaena hippurus, C. equiselis	Mahimahi	96,296	85,230	282,401	3.31
Elopidae (ladyfishes, tarpons,	tenpounders)				
Elops hawaiensis	Hawaiian ladyfish (awa'awa)	15	12	13	1.06
Emmelichthyidae (rovers)					
Erythrocles scintillans	Golden kalekale	41	10	43	4.50
Gempylidae (snake mackerels)				
Ruvettus pretiosus	Oilfish (walu)	59,018	56,443	18,015	0.32
Holocentridae (squirrel & solo	dierfishes)				
Sargocentron spp. Kuhliidae (flagtails)	Squirrelfish	2,793	2,464	10,877	4.41
Kuhlia spp.	Aholehole (flagtails)	68	47	235	4.97
Kyphosidae (sea chubs) Kyphosus spp. (various)	Nenue (rudderfish)	2,018	2,004	3,198	1.60
Labridae (wrasses)					
Labridae (unspecified)	Hinalea (wrasse)	546	431	2,233	5.18
Lampridae (moonfishes, opah)				
Lampris guttatus	Moonfish (opah)	70,271	66,471	208,958	3.14
Lethrinidae (emperors)					
Monotaxis grandoculis	Mu (bigeye emperor)	279	273	866	3.17
Lutjanidae (snappers)					
Aphareus rutilans	Lehi (silverjaw)	960	804	3,976	4.94
Aprion virescens	Uku (gray snapper)	5,301	4,890	22,292	4.56
Etelis carbunculus	Ehu (red snapper)	2,754	1,993	11,775	5.91

Table D-3 Hawaii February 2014 Estimated Commercial Landings

roup				Estimated	
Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Value of Sold Portion (\$)	Price/ Lb.
Etelis coruscans	Onaga (red snapper)	9,934	8,577	65,654	7.65
Lutjanidae (unspecified)	Snappers (unspecified)	178	155	645	4.17
Lutjanus kasmira	Ta'ape (blue-lined snapper)	1,138	698	1,266	1.81
Pristipomoides filamentosus	Opakapaka (pink snapper)	25,177	21,848	155,277	7.11
Pristipomoides sieboldii	Kalekale	2,215	1,930	7,864	4.07
Pristipomoides zonatus	Gindai (flower snapper)	372	291	1,498	5.15
Monacanthidae (filefishes)					
Aluterus monoceros	Filefish	214	186	410	2.21
Mugilidae (mullets)					
Mugilidae (unspecified)	Mullet	70	70	215	3.07
Mullidae (goatfishes)					
Mullidae (unspecified)	Goatfish	4,524	3,421	17,092	5.00
Muraenidae, Congridae (mar	ine eels)				
Gymnothorax, Conger spp.	Eels	70	28	31	1.10
Polynemidae (threadfins)					
Polydactylus sexfilis	Threadfin (moi)	73	0	0	0
Pomacentridae (damselfishes)	,				
Abudefduf spp.	Damselfish (unspecified)	58	36	92	2.56
Priacanthidae (glasseyes)	(1 0 /				
Priacanthus spp.	Bigeyes/glasseyes	366	338	1,419	4.20
Scaridae (parrotfishes)				,	
Scaridae (unspecified)	Uhu (parrotfishes)	7,889	7,889	30,018	3.81
Scorpaenidae (scorpionfishes)		.,	.,	,	
Scorpaenidae (many species)	Scorpionfish (nohu)	132	109	756	6.96
Sharks (Selachii)					
Infraclass: Selachii (multiple orders)	Sharks	10,384	8,658	7,709	0.89
Serranidae (groupers)					
Cephalopholis argus	Roi	298	278	776	2.80
Hyporthodus quernus	Hapuupuu (Hawaiian grouper)	1,230	1,169	6,428	5.50
Sphyraenidae (barracudas) <i>Sphyraena spp.</i>	Barracudas	850	773	1,201	1.55
Unspecified Fish Groups					
Unknown	Pelagic fishes (unspecified)	5	5	1	0.10
Various families (unspecified)	Reef fishes (unspecified)	36	0	0	0

D.24

Table D-3 Hawaii February 2014 Estimated Commercial Landings

Group Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Estimated Value of Sold Portion (\$)	Price/ Lb.
Miscellaneous Seafood (insuff	icient information)				
Unknown fish/invertebrates	Miscellaneous (unspecified)	195	80	121	1.52
INVERTEBRATES:					
Crustaceans: Crabs Infraorder: Brachyura (unspecified)	Crabs	2,733	1,934	8,554	4.42
Crustaceans: Lobsters					
Panulirus penicillatus, P. marginatus	Spiny lobster	1,429	1,397	15,329	10.97
Scyllarides spp.	Slipper lobster	11	4	34	8.00
Crustaceans: Shrimps					
Heterocarpus spp., Penaeus marginatus	Shrimp (saltwater)	6,141	1,122	7,955	7.09
Mollusks					
<i>Cellana</i> spp. Cephalopoda,	Limpets (saltwater)	2,223	978	6,267	6.41
Decapodiformes (unspecified)	Squid	21	19	143	7.53
Octopus spp.	Octopus	2,086	1,080	4,846	4.49
Invertebrates (unspecified) Invertebrates (multiple phyla)	Invertebrates	439	439	38,321	87.23
ALGAE:					
Phyla: Rhodophyta, Chlorophyta (unspecified)	Algae (limu, unspecified)	387	325	4,105	12.63
	Total	2,945,965	2,573,226	\$8,355,339	\$3.25

Table D-4 Hawaii March 2014 Estimated Commercial Landings

Group Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Estimated Value of Sold Portion (\$)	Price/ Lb.
FISHES:					
Scombridae					
Tunas					
Euthynnus affinis	Kawakawa	502	209	733	3.52
Katsuwonus pelamis	Skipjack tuna	41,865	34,518	42,021	1.22
Thunnus alalunga	Albacore tuna	62,856	53,129	131,519	2.48
Thunnus albacares	Yellowfin tuna	322,830	322,830	1,153,373	3.57
Thunnus obesus	Bigeye tuna	1,112,698	1,101,308	4,996,260	4.54
Tribe Thunnini	Tunas (unspecified)	210	44	110	2.52
(unspecified)					
Other scombrids	W7-1	100.466	105 472	202.020	2.77
Acanthocybium solandri	Wahoo	108,466	105,472	292,029	2.77
Scomberoides lysan	Leatherback	3	3	4	1.60
Billfishes					
Suborder: Xiphioidei Istiophoridae	Billfishes (unspecified)	127	0	0	
Istiompax indica	Black marlin	2,145	2,145	3,660	1.71
Istiophorus platypterus	Sailfish	5,897	1,027	1,389	1.35
Kajikia audax	Striped marlin	85,338	85,338	124,297	1.46
Makaira mazara	Blue marlin	90,668	79,812	114,917	1.44
Tetrapturus angustirostris	Shortnose spearfish	60,588	58,579	50,431	0.86
Xiphiidae					
Xiphias gladius	Broadbill swordfish	601,585	376,416	832,231	2.21
Other fishes					
Acanthuridae (tangs, surgeor	ns, unicornfishes)				
Acanthurus spp., Ctenochaetus spp.	Surgeons/tangs (unspecified)	7,290	6,564	12,683	1.93
Albulidae (bonefishes)	· · · · · · · · · · · · · · · · · · ·				
Albula glossodonta, A.	Oio (bonefish)	794	677	981	1.45
neoguinaica					
Aulostomidae (trumpetfishes)					
Aulostomus spp.	Trumpetfish	32	14	26	1.90
Bothidae (left-eye flounders)					
Bothidae (unspecified)	Flounders	3	3	6	2.00
Bramidae (pomfrets)					
Taractichthys, Eumegistus, Brama (unspecified)	Pomfret	124,302	124,302	226,867	1.83
	20)				
Carangidae (jacks & trevallie		70	10	. .	2.45
Carangidae (unspecified)	Ulua/Jacks (unspecified)	79 25.6	19	65	3.47
Carangoides ferdau	Barred ulua	256	98	317	3.23
Carangoides	Papa ulua	555	555	2,485	4.48
orthogrammus Caranx ignobilis	White ulua	706	679	2,117	3.12
Caranx lugubris	Black ulua	43	0	2,117	0
Pseudocaranx dentex	Butaguchi (pig-lipped ulua)	4	0	0	0

Table D-4 Hawaii March 2014 Estimated Commercial Landings

oup Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs.	Estimated Value of Sold Portion (\$)	Price/ Lb.
Seriola dumerili	Kahala (amberjack)	519	63	132	2.09
Uraspis helvola	Dobe ulua	1,493	642	1,930	3.01
Decapterus macarellus	Mackerel scad (ōpelu)	23,247	16,069	45,974	2.86
Selar crumenopthalmus Elagatis bipinnulata	Bigeye scad (akule) Kamanu (rainbow runner)	15,623 440	12,115 393	44,009 639	3.63 1.63
Chanidae (milkfish)					
Chanos chanos	Milkfish (awa)	60	60	130	2.17
Cirrhitidae (hawkfishes)					
Cirrhitus pinnulatus	Po'opa'a (hawkfish)	175	175	587	3.35
Clupeidae, Dussumieriidae (sardines/herrings)				
Clupeidae, Dussumieriidae (unspecified)	Herring/sardine	300	0	0	0
Coryphaenidae (mahimahi/do	olphinfish)				
Coryphaena hippurus, C. equiselis	Mahimahi	165,484	158,784	414,678	2.61
Elopidae (ladyfishes, tarpons,	tenpounders)				
Elops hawaiensis	Hawaiian ladyfish (awa'awa)	105	105	151	1.44
Emmelichthyidae (rovers)	()				
Erythrocles scintillans	Golden kalekale	31	14	59	4.33
Gempylidae (snake mackerels					
Ruvettus pretiosus	Oilfish (walu)	66,714	66,714	26,090	0.39
Holocentridae (squirrel & sol	* *	,	,	,	
Sargocentron spp.	Squirrelfish	2,287	2,222	10,237	4.61
Kuhliidae (flagtails)	1	,	,	,	
Kuhlia spp.	Aholehole (flagtails)	395	340	1,416	4.16
Kyphosidae (sea chubs) Kyphosus spp. (various) Labridae (wrasses)	Nenue (rudderfish)	539	474	894	1.88
Labridae (unspecified)	Hinalea (wrasse)	345	195	742	3.82
Lampridae (moonfishes, opal		545	173	772	3.02
Lampris guttatus	Moonfish (opah)	115,628	109,453	211,789	1.93
Lethrinidae (emperors)	Woomish (opun)	115,020	107,123	211,709	1.75
Monotaxis grandoculis	Mu (bigeye emperor)	153	153	594	3.88
Lutjanidae (snappers)	wid (orgelye emperor)	133	133	3)4	3.00
Aphareus rutilans	Lehi (silverjaw)	482	482	2,403	4.98
Aprion virescens	Uku (gray snapper)	6,164	5,663	25,657	4.53
Etelis carbunculus	Ehu (red snapper)	1,905	1,771	10,743	6.07
Etelis coruscans	Onaga (red snapper)	3,939	3,839	30,877	8.04
Lutjanidae (unspecified)	Snappers (unspecified)	216	182	749	4.12
Lutjanus kasmira	Ta'ape (blue-lined	1,575	814	1,453	1.78
	snapper)				

Table D-4 Hawaii March 2014 Estimated Commercial Landings

oup Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Estimated Value of Sold Portion (\$)	Price/ Lb.
Pristipomoides filamentosus	Opakapaka (pink snapper)	12,929	12,929	93,291	7.22
Pristipomoides sieboldii Pristipomoides zonatus	Kalekale Gindai (flower snapper)	1,377 176	1,088 171	4,627 792	4.25 4.62
Monacanthidae (filefishes)					
Aluterus monoceros	Filefish	160	105	119	1.13
Mugilidae (mullets)					
Mugilidae (unspecified)	Mullet	225	115	328	2.84
Mullidae (goatfishes)					
Mullidae (unspecified)	Goatfish	5,584	4,807	20,769	4.32
Muraenidae, Congridae (mar	rine eels)				
Gymnothorax spp., Conger spp.	Eels	138	71	77	1.08
Polynemidae (threadfins)					
Polydactylus sexfilis	Threadfin (moi)	113	75	502	6.72
Pomacentridae (damselfishes)				
Abudefduf spp.	Damselfish (unspecified)	22	5	14	2.90
Priacanthidae (glasseyes)					
Priacanthus spp.	Bigeyes/glasseyes	288	269	1,074	3.99
Scaridae (parrotfishes)				ŕ	
Scaridae (unspecified)	Uhu (parrotfishes)	6,029	5,314	21,671	4.08
Scorpaenidae (scorpionfishes	•		,	,	
Scorpaenidae (many species)	Scorpionfish (nohu)	122	122	791	6.48
Sharks (Selachii)					
Infraclass: Selachii (multiple orders)	Sharks	12,914	10,543	10,456	0.99
Serranidae (groupers)					
Cephalopholis argus	Roi	101	44	129	2.92
Hyporthodus quernus	Hapuupuu (Hawaiian grouper)	380	380	2,190	5.77
Sphyraenidae (barracudas)					
Sphyraena spp.	Barracudas	1,134	1,134	1,842	1.62
Unspecified Fish Groups					
Unknown	Pelagic fishes (unspecified)	7	7	1	0.10
Various families (unspecified)	Reef fishes (unspecified)	66	0	0	0

Miscellaneous Seafood (insufficient information)

D.28

Table D-4 Hawaii March 2014 Estimated Commercial Landings

Group Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Estimated Value of Sold Portion (\$)	Price/ Lb.
Unknown fish/invertebrates	Miscellaneous (unspecified)	101	101	481	4.78
INVERTEBRATES:					
Crustaceans: Crabs					
Infraorder: Brachyura (unspecified)	Crabs	2,615	1,828	8,913	4.88
Crustaceans: Lobsters					
Panulirus penicillatus, P. marginatus	Spiny lobster	827	821	8,252	10.05
Scyllarides spp.	Slipper lobster	16	9	75	8.00
Crustaceans: Shrimps					
Heterocarpus spp., Penaeus marginatus	Shrimp (saltwater)	9,839	1,490	9,189	6.17
Mollusks					
Cellana spp. Octopus spp.	Limpets (saltwater) Octopus	2,266 1,805	795 856	5,016 3,880	6.31 4.53
Invertebrates (unspecified)					
Invertebrates (multiple phyla)	Invertebrates	13	13	24	1.92
ALGAE:					
Phyla: Rhodophyta, Chlorophyta (unspecified)	Algae (limu, unspecified)	580	497	5,980	12.03
,	Total	3,097,491	2,778,055	\$9,020,942	\$3.25

Table D-5 Hawaii April 2014 Estimated Commercial Landings

	•		6		
Group Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Estimated Value of Sold Portion (\$)	Price/ Lb.
FISHES:					
Scombridae					
Tunas					
Euthynnus affinis	Kawakawa	693	80	257	3.20
Katsuwonus pelamis	Skipjack tuna	34,442	22,431	44,732	1.99
Thunnus alalunga	Albacore tuna	19,965	18,078	50,793	2.81
Thunnus albacares	Yellowfin tuna	221,107	191,190	754,638	3.95
Thunnus obesus	Bigeye tuna	1,000,918	968,482	4,745,845	4.90
Tribe Thunnini	Tunas (unspecified)	322	119	374	3.16
(unspecified)	(1 /				
Other scombrids	XX7 1	112.045	111 407	202.000	2.62
Acanthocybium solandri	Wahoo Leatherback	113,845 91	111,485 91	292,900 234	2.63 2.56
Scomberoides lysan	Leatherback	91	91	234	2.30
Billfishes					
Suborder: Xiphioidei	Billfishes (unspecified)	127	0	0	
Istiophoridae <i>Istiompax indica</i>	Black marlin	2 409	2,408	3,844	1.60
Istiompax inaica Istiophorus platypterus	Sailfish	2,408 2,771	2,408	3,844 3,020	1.60
Kajikia audax	Striped marlin	43,420	43,420	89,706	2.07
Makaira mazara	Blue marlin	106,519	100,086	149,097	1.49
Tetrapturus angustirostris	Shortnose spearfish	27,440	27,440	48,609	1.77
Xiphiidae	-				
Xiphias gladius	Broadbill swordfish	625,129	625,129	1,218,575	1.95
Other fishes		,	,	, ,	
Acanthuridae (tangs, surgeon	s unicornfishes)				
Acanthurus spp.,	Surgeons/tangs		< 	44.440	
Ctenochaetus spp.	(unspecified)	7,447	6,732	13,228	1.96
Albulidae (bonefishes)					
Albula glossodonta, A.					
neoguinaica	Oio (bonefish)	1,528	1,303	1,950	1.50
Aulostomidae (trumpetfishes)					
Aulostomus spp.	Trumpetfish	11	10	30	3.16
Belonidae (needlefishes)	Trumpethish	11	10	30	3.10
Belonidae (unspecified)	Needlefish	25	25	63	2.56
(1 0 /	Needlelish	25	25	03	2.56
Bramidae (pomfrets)					
Taractichthys, Eumegistus, Brama (unspecified)	Pomfret	124,874	124,874	170,914	1.37
Carangidae (jacks & trevallies	s)				
Carangidae (unspecified)	Ulua/Jacks (unspecified)	197	14	39	2.91
Carangidae (unspecified)	Reef jacks (ulua)	85	85	346	4.07
Carangoides ferdau	Barred ulua	255	102	365	3.57
Carangoides	Papa ulua	722	614	3,008	4.90
orthogrammus	_				
Caranx ignobilis	White ulua	837	456	1,381	3.03

Table D-5 Hawaii April 2014 Estimated Commercial Landings

up			- 7	Fatimated	
Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Estimated Value of Sold Portion (\$)	Price/ Lb.
Caranx lugubris	Black ulua	12	0	0	0
Caranx sexfasciatus	Sasa ulua	5	0	0	0
Pseudocaranx dentex	Butaguchi (pig-lipped ulua)	7	0	0	0
Seriola dumerili	Kahala (amberjack)	362	138	271	1.96
Uraspis helvola	Dobe ulua	630	630	1,748	2.78
Decapterus macarellus Selar crumenopthalmus	Mackerel scad (ōpelu) Bigeye scad (akule)	23,286 22,527	12,421 17,819	33,430 63,487	2.69 3.56
Elagatis bipinnulata	Kamanu (rainbow runner)	553	509	879	1.73
Chanidae (milkfish)	,				
Chanos chanos	Milkfish (awa)	192	192	267	1.39
Cirrhitidae (hawkfishes)					
Cirrhitus pinnulatus	Po'opa'a (hawkfish)	96	96	340	3.55
Coryphaenidae (mahimahi/d	olphinfish)				
Coryphaena hippurus, C. equiselis	Mahimahi	175,220	162,133	507,827	3.13
Elopidae (ladyfishes, tarpons	, tenpounders)				
Elops hawaiensis	Hawaiian ladyfish (awa'awa)	34	34	49	1.46
Emmelichthyidae (rovers)					
Erythrocles scintillans	Golden kalekale	14	0	0	0
Gempylidae (snake mackerel	(s)				
Ruvettus pretiosus	Oilfish (walu)	52,176	52,176	48,456	0.93
Holocentridae (squirrel & so	ldierfishes)				
Sargocentron spp.	Squirrelfish	2,113	2,019	9,702	4.81
Kuhliidae (flagtails)					
Kuhlia spp.	Aholehole (flagtails)	96	54	345	6.36
Kyphosidae (sea chubs)					
Kyphosus spp. (various)	Nenue (rudderfish)	602	533	995	1.87
Labridae (wrasses)					
Labridae (unspecified)	Hinalea (wrasse)	177	66	153	2.32
Lampridae (moonfishes, opa	h)				
Lampris guttatus	Moonfish (opah)	274,316	264,468	241,644	0.91
Lethrinidae (emperors)					
Monotaxis grandoculis	Mu (bigeye emperor)	108	108	365	3.38
Lutjanidae (snappers)					
Aphareus rutilans	Lehi (silverjaw)	239	239	1,285	5.37
Aprion virescens	Uku (gray snapper)	5,413	4,791	22,747	4.75
Etelis carbunculus	Ehu (red snapper)	1,140	998	6,408	6.42
Etelis coruscans Lutjanidae (unspecified)	Onaga (red snapper) Snappers (unspecified)	1,334 309	1,138 309	9,701 1,400	8.53 4.53

Table D-5 Hawaii April 2014 Estimated Commercial Landings

up Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Estimated Value of Sold Portion (\$)	Price/ Lb.
Lutjanus kasmira	Ta'ape (blue-lined	746	381	667	1.75
Pristipomoides auricilla	snapper) Yellow-tail kalekale	2	2	5	3.00
Pristipomoides	Opakapaka (pink				
filamentosus	snapper)	4,137	4,137	32,614	7.88
Pristipomoides sieboldii	Kalekale	777	703	3,127	4.45
Pristipomoides zonatus	Gindai (flower snapper)	138	130	656	5.06
Monacanthidae (filefishes)					
Aluterus monoceros	Filefish	300	236	364	1.54
Mugilidae (mullets)					
Mugilidae (unspecified)	Mullet	1,793	1,782	7,513	4.22
Mullidae (goatfishes)					
Mullidae (unspecified)	Goatfish	4,395	3,053	13,121	4.30
Muraenidae, Congridae (mari	ne eels)				
<i>Gymnothorax</i> spp., <i>Conger</i> spp.	Eels	279	42	52	1.25
Polynemidae (threadfins)					
Polydactylus sexfilis	Threadfin (moi)	93	22	202	9.01
Pomacentridae (damselfishes)					
Abudefduf spp.	Damselfish (unspecified)	101	101	328	3.25
Priacanthidae (glasseyes)					
Priacanthus spp.	Bigeyes/glasseyes	848	841	3,511	4.17
Scaridae (parrotfishes)					
Scaridae (unspecified)	Uhu (parrotfishes)	5,475	4,949	20,106	4.06
Scorpaenidae (scorpionfishes)					
Scorpaenidae (many species)	Scorpionfish (nohu)	96	91	555	6.13
Sharks (Selachii)					
Infraclass: Selachii (multiple orders)	Sharks	6,409	6,387	4,585	0.72
Serranidae (groupers)					
Cephalopholis argus	Roi	104	58	163	2.82
Hyporthodus quernus	Hapuupuu (Hawaiian grouper)	400	302	1,544	5.12
Sphyraenidae (barracudas)					
Sphyraena spp.	Barracudas	1,069	1,069	1,519	1.42
Unspecified Fish Groups					
Various families	Reef fishes	19	0	0	0
(unspecified)	(unspecified)	17	3	v	O

D.32

Table D-5 Hawaii April 2014 Estimated Commercial Landings

Group Subgroup	Comment de la lace	Lbs.	Estimated Lbs.	Estimated Value of Sold Portion (\$)	Price/
Scientific Name	Common/local name	Caught	Sold	Portion (5)	Lb.
Miscellaneous Seafood (insuff	ficient information)				
Unknown fish/invertebrates	Miscellaneous (unspecified)	223	217	443	2.04
INVERTEBRATES:					
Crustaceans: Crabs					
Infraorder: Brachyura (unspecified)	Crabs	2,795	1,824	7,994	4.38
Crustaceans: Lobsters					
Panulirus penicillatus, P. marginatus	Spiny lobster	821	820	8,630	10.52
Scyllarides spp.	Slipper lobster	45	28	224	8.00
Crustaceans: Shrimps					
Heterocarpus spp., Penaeus marginatus	Shrimp (saltwater)	2,903	1,410	9,689	6.87
Mollusks					
Cellana spp. Cephalopoda,	Limpets (saltwater)	2,205	722	4,445	6.16
Decapodiformes (unspecified)	Squid	238	180	342	1.90
Octopus spp.	Octopus	1,723	695	2,567	3.70
Invertebrates (unspecified) Invertebrates (multiple phyla)	Invertebrates	242	238	21,384	90.00
ALCAE.					
ALGAE: Phyla: Rhodophyta, Chlorophyta (unspecified)	Algae (limu, unspecified)	900	871	9,441	10.84
	Total	2,935,415	2,798,839	\$8,701,238	\$3.11

Table D-6 Hawaii May 2014 Estimated Commercial Landings

Group				Estimated	
Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Value of Sold Portion (\$)	Price/ Lb.
FISHES:					
Scombridae					
Tunas					
Euthynnus affinis	Kawakawa	1,242	1,080	2,225	2.06
Katsuwonus pelamis	Skipjack tuna	91,589	66,432	104,987	1.58
Thunnus alalunga	Albacore tuna	61,101	57,663	82,334	1.43
Thunnus albacares Thunnus obesus	Yellowfin tuna	382,613	324,123	1,051,479	3.24 3.99
Tribe Thunnini (unspecified)	Bigeye tuna Tunas (unspecified)	1,195,197 16	1,162,950 6	4,642,569 11	1.83
Other scombrids	i unas (unspecificu)	10	O	11	1.03
	W7-1	212.044	102 500	224 222	1 77
Acanthocybium solandri Scomberoides lysan	Wahoo Leatherback	213,044 44	183,599 44	324,222 107	1.77 2.43
•	Leatherback	44	44	107	2.43
Billfishes					
Istiophoridae	Dlask madin	1.072	1 072	2.077	1.05
Istiompax indica Istiophorus platypterus	Black marlin Sailfish	1,973 3,901	1,973 3,901	2,077 1,951	1.05 0.50
Kajikia audax	Striped marlin	72,487	70,226	81,552	1.16
Makaira mazara	Blue marlin	199,332	191,666	164,891	0.86
Tetrapturus angustirostris	Shortnose spearfish	41,831	40,990	22,349	0.55
Xiphiidae	1	,	,	,	
Xiphias gladius	Broadbill swordfish	499,883	484,735	889,440	1.83
Other fishes		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,		
Acanthuridae (tangs, surgeons	unicornfiches)				
Acanthurus, Ctenochaetus	Surgeons/tangs				
spp.	(unspecified)	9,408	7,999	15,709	1.96
Albulidae (bonefishes)	(unopermeu)				
Albula glossodonta, A. neoguinaica	Oio (bonefish)	686	435	644	1.48
Aulostomidae (trumpetfishes)					
Aulostomus spp.	Trumpetfish	28	1	1	1.00
• •	Trumpetrisii	20	1	1	1.00
Belonidae (needlefishes)	NI 41 - C -1.	2.1	21	02	2.05
Belonidae (unspecified)	Needlefish	31	31	92	2.95
Bramidae (pomfrets)					
Taractichthys, Eumegistus, Brama (unspecified)	Pomfret	142,320	142,320	141,266	0.99
Carangidae (jacks & trevallies)				
Carangidae (unspecified)	Ulua/Jacks (unspecified)	260	10	31	3.00
Carangidae (unspecified)	Reef jacks (ulua)	46	46	186	4.00
Carangoides ferdau	Barred ulua	1,570	1,088	2,927	2.69
Carangoides orthogrammus	Papa ulua	1,624	1,383	6,330	4.58
Caranx ignobilis	White ulua	1,274	888	2,672	3.01
Caranx lugubris	Black ulua	107	107	247	2.30
Caranx sexfasciatus	Sasa ulua	24	24	72	3.06

Table D-6 Hawaii May 2014 Estimated Commercial Landings

	ž.				
up Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Estimated Value of Sold Portion (\$)	Price/ Lb.
Pseudocaranx dentex	Butaguchi (pig-lipped ulua)	179	179	450	2.52
Seriola dumerili	Kahala (amberjack)	984	231	626	2.71
Uraspis helvola	Dobe ulua	23	19	68	3.60
Decapterus macarellus	Mackerel scad (ōpelu)	17,430	11,725	31,982	2.73
Selar crumenopthalmus Elagatis bipinnulata	Bigeye scad (akule) Kamanu (rainbow runner)	40,849 596	26,070 506	88,761 1,058	3.40 2.09
Chanidae (milkfish)	,				
Chanos chanos	Milkfish (awa)	45	45	65	1.45
Cirrhitidae (hawkfishes)					
Cirrhitus pinnulatus	Po'opa'a (hawkfish)	98	98	339	3.47
Coryphaenidae (mahimahi/d	lolphinfish)				
Coryphaena hippurus, C. equiselis	Mahimahi	131,388	117,829	344,254	2.92
Elopidae (ladyfishes, tarpons	, tenpounders)				
Elops hawaiensis	Hawaiian ladyfish (awa'awa)	30	9	12	1.40
Emmelichthyidae (rovers)					
Erythrocles scintillans	Golden kalekale	6	0	0	(
Gempylidae (snake mackere	ls)				
Ruvettus pretiosus	Oilfish (walu)	41,833	41,833	36,334	0.87
Holocentridae (squirrel & so	ldierfishes)				
Sargocentron spp.	Squirrelfish	6,801	5,628	26,438	4.70
Kuhliidae (flagtails)					
Kuhlia spp.	Aholehole (flagtails)	174	156	769	4.93
Kyphosidae (sea chubs)					
Kyphosus spp. (various)	Nenue (rudderfish)	1,690	1,422	3,121	2.19
Labridae (wrasses)					
Labridae (unspecified)	Hinalea (wrasse)	790	499	2,772	5.56
Lampridae (moonfishes, opa	ıh)				
Lampris guttatus	Moonfish (opah)	176,717	176,717	213,452	1.21
Lethrinidae (emperors)					
Monotaxis grandoculis	Mu (bigeye emperor)	567	529	2,236	4.23
Lutjanidae (snappers)					
Aphareus rutilans	Lehi (silverjaw)	712	712	3,469	4.8
Aprion virescens	Uku (gray snapper)	16,335	14,367	60,380	4.20
Etelis carbunculus	Ehu (red snapper)	2,387	1,947	12,427	6.38
Etelis coruscans Lutjanidae (unspecified)	Onaga (red snapper) Snappers (unspecified)	3,318 586	2,696 586	22,438 2,510	8.32 4.28

Table D-6 Hawaii May 2014 Estimated Commercial Landings

oup Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Estimated Value of Sold Portion (\$)	Price/ Lb.
Lutjanus kasmira	Ta'ape (blue-lined snapper)	1,656	1,522	2,853	1.87
Pristipomoides auricilla	Yellow-tail kalekale	18	18	63	3.50
Pristipomoides filamentosus	Opakapaka (pink snapper)	10,045	8,294	57,226	6.90
Pristipomoides sieboldii Pristipomoides zonatus	Kalekale Gindai (flower snapper)	1,031 218	812 158	3,524 829	4.34 5.26
Monacanthidae (filefishes)					
Aluterus monoceros	Filefish	137	95	209	2.21
Mugilidae (mullets)					
Mugilidae (unspecified) Mullidae (goatfishes)	Mullet	762	456	1,552	3.40
Mullidae (unspecified)	Goatfish	10,395	5,351	22,071	4.12
Muraenidae, Congridae (mar		- ,	- ,	,	
Gymnothorax, Conger spp.	Eels	309	27	29	1.09
Polynemidae (threadfins)					
Polydactylus sexfilis	Threadfin (moi)	14	14	124	9.01
Pomacentridae (damselfishes)	` ′				
Abudefduf spp.	Damselfish (unspecified)	54	51	162	3.19
Priacanthidae (glasseyes)					
Priacanthus spp.	Bigeyes/glasseyes	639	633	2,848	4.50
Scaridae (parrotfishes)					
Scaridae (unspecified)	Uhu (parrotfishes)	8,678	8,352	34,514	4.13
Scorpaenidae (scorpionfishes)	1				
Scorpaenidae (many species)	Scorpionfish (nohu)	200	158	1,268	8.01
Sharks (Selachii) Infraclass: Selachii (multiple	Sharks	8,895	8,217	6,649	0.8
orders) Serranidae (groupers)		,	,	,	
Cephalopholis argus	Roi	232	232	707	3.05
Hyporthodus quernus	Hapuupuu (Hawaiian grouper)	919	891	5,486	6.15
Sphyraenidae (barracudas)					
Sphyraena spp.	Barracudas	7,061	7,041	3,894	0.55
Unspecified Fish Groups					
Various families (unspecified)	Reef fishes (unspecified)	134	38	36	0.95

Table D-6 Hawaii May 2014 Estimated Commercial Landings

Group Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Estimated Value of Sold Portion (\$)	Price/ Lb.
Miscellaneous Seafood (insuf)	ficient information)				
Unknown fish/invertebrates	Miscellaneous (unspecified)	341	72	52	0.72
INVERTEBRATES:					
Crustaceans: Crabs Infraorder: Brachyura (unspecified)	Crabs	1,391	680	3,687	5.42
Crustaceans: Shrimps					
Heterocarpus spp., Penaeus marginatus	Shrimp (saltwater)	3,959	2,405	15,848	6.59
Mollusks					
<i>Cellana</i> spp. Cephalopoda,	Limpets (saltwater)	3,323	1,504	10,392	6.91
Decapodiformes (unspecified)	Squid	178	178	444	2.50
Octopus spp.	Octopus	1,827	639	3,051	4.78
Invertebrates (unspecified)					
Invertebrates (multiple phyla)	Invertebrates	274	0	0	
ALGAE:					
Phyla: Rhodophyta, Chlorophyta (unspecified)	Algae (limu, unspecified)	1,588	1,345	15,146	11.26
	Total	3,429,447	3,196,706	\$8,586,996	\$2.69

Table D-7 Hawaii June 2014 Estimated Commercial Landings

Group	an June 2014 Estimate		G	Estimated	
Subgroup		Lbs.	Estimated Lbs.	Value of	Price/
Scientific Name	Common/local name	Caught	Sold	Sold Portion (\$)	Lb.
FISHES:					
Scombridae					
Tunas					
Euthynnus affinis	Kawakawa	348	112	240	2.14
Katsuwonus pelamis	Skipjack tuna	73,904	60,949	81,169	1.33
Thunnus alalunga	Albacore tuna	50,774	45,671	95,764	2.10
Thunnus albacares	Yellowfin tuna	419,401	365,489	1,175,214	3.22
Thunnus obesus	Bigeye tuna	1,100,867	1,020,673	4,046,641	3.96
Tribe Thunnini (unspecified)	Tunas (unspecified)	58	58	388	6.67
Other scombrids					
Acanthocybium solandri	Wahoo	169,410	146,304	292,001	2.00
Scomberoides lysan	Leatherback	35	35	70	2.01
Billfishes					
Suborder: Xiphioidei	Billfishes (unspecified)	382	382	627	1.64
Istiophoridae	, -				
Istiompax indica	Black marlin	1,535	1,535	1,343	0.88
Istiophorus platypterus	Sailfish	5,193	5,193	1,962	0.38
Kajikia audax	Striped marlin	73,728	71,228	67,697	0.95
Makaira mazara	Blue marlin	250,515	229,474	147,194	0.64
Tetrapturus angustirostris	Shortnose spearfish	31,067	29,267	23,074	0.79
Xiphiidae					
Xiphias gladius	Broadbill swordfish	233,241	226,159	620,307	2.74
Other fishes					
Acanthuridae (tangs, surgeons	, unicornfishes)				
Acanthurus, Ctenochaetus	Surgeons/tangs	11.050	0.007	10 247	1 02
spp.	(unspecified)	11,059	9,987	18,247	1.83
Albulidae (bonefishes)					
Albula glossodonta, A.					
neoguinaica	Oio (bonefish)	731	377	500	1.33
Aulostomidae (trumpetfishes)					
Aulostomus spp.	Trumpetfish	31	16	39	2.39
Belonidae (needlefishes)					_,_,
,	NI 41 - C -1.	20	20	72	2.64
Belonidae (unspecified)	Needlefish	28	28	73	2.64
Bramidae (pomfrets)					
Taractichthys, Eumegistus, Brama (unspecified)	Pomfret	142,669	142,669	159,830	1.12
Carangidae (jacks & trevallies)				
Carangidae (unspecified)	Ulua/Jacks (unspecified)	311	68	176	2.59
Carangoides ferdau	Barred ulua	1,308	217	682	3.15
Carangoides orthogrammus	Papa ulua	1,200	1,200	5,860	4.88
Caranx ignobilis	White ulua	763	374	886	2.37
Caranx ignoonis Caranx sexfasciatus	Sasa ulua	703	7	10	1.50
Seriola dumerili	Kahala (amberjack)	451	31	39	1.25
Decapterus macarellus	Mackerel scad (ōpelu)	17,722	9,989	27,358	2.74
Selar crumenopthalmus	Bigeye scad (akule)	36,537	19,483	67,004	3.44

Table D-7 Hawaii June 2014 Estimated Commercial Landings

oup	an June 2014 Estimate	u commer	ciai Landings	Estimated	
-		Lbs.	Estimated I be	Value of	Price/
Subgroup Scientific Name	Common/local name	Caught	Estimated Lbs. Sold	Sold Portion (\$)	Lb.
Elagatis bipinnulata	Kamanu (rainbow runner)	369	369	621	1.68
Chanidae (milkfish)					
Chanos chanos	Milkfish (awa)	148	148	210	1.42
Cirrhitidae (hawkfishes)					
Cirrhitus pinnulatus	Po'opa'a (hawkfish)	147	147	506	3.45
Coryphaenidae (mahimahi/do	lphinfish)				
Coryphaena hippurus, C. equiselis	Mahimahi	106,546	95,067	302,484	3.18
Elopidae (ladyfishes, tarpons,	tenpounders)				
Elops hawaiensis	Hawaiian ladyfish (awa'awa)	14	3	4	1.25
Emmelichthyidae (rovers)					
Erythrocles scintillans	Golden kalekale	4	0	0	0
Gempylidae (snake mackerels)				
Ruvettus pretiosus	Oilfish (walu)	38,844	38,844	40,345	1.04
Holocentridae (squirrel & solo	lierfishes)				
Sargocentron spp.	Squirrelfish	3,309	2,988	13,680	4.58
Kuhliidae (flagtails)					
Kuhlia spp.	Aholehole (flagtails)	111	108	510	4.72
Kyphosidae (sea chubs)					
Kyphosus spp. (various)	Nenue (rudderfish)	2,581	2,581	4,721	1.83
Labridae (wrasses)					
Labridae (unspecified)	Hinalea (wrasse)	452	339	1,048	3.09
Lampridae (moonfishes, opah)				
Lampris guttatus	Moonfish (opah)	138,739	126,007	210,269	1.67
Lethrinidae (emperors)					
Monotaxis grandoculis	Mu (bigeye emperor)	274	274	904	3.30
Lutjanidae (snappers)					
Aphareus rutilans	Lehi (silverjaw)	378	373	1,899	5.09
Aprion virescens	Uku (gray snapper)	9,277	8,978	40,734	4.54
Etelis carbunculus	Ehu (red snapper)	1,273	1,157	8,501	7.35
Etelis coruscans	Onaga (red snapper)	2,246	2,246	18,399	8.19
Lutjanidae (unspecified)	Snappers (unspecified)	594	591	2,681	4.54
Lutjanus kasmira	Ta'ape (blue-lined snapper)	1,770	1,565	2,132	1.36
Pristipomoides filamentosus	Opakapaka (pink	3,225	3,116	22,920	7.36
Pristipomoides sieboldii	snapper) Kalekale	470	385	1,893	4.92
Pristipomoides zonatus	Gindai (flower snapper)	38	17	1,893	5.19
Monacanthidae (filefishes)	Smaar (nower snapper)	50	1 /	00	5.19
Aluterus monoceros	Filefish	187	187	346	1.85

Table D-7 Hawaii June 2014 Estimated Commercial Landings

Group	an June 2014 Estimate	u Commei	ciai Landings	Estimated	
Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Value of Sold Portion (\$)	Price/ Lb.
Mugilidae (mullets)					
Mugilidae (unspecified)	Mullet	256	167	806	4.81
Mullidae (goatfishes)					
Mullidae (unspecified)	Goatfish	7,856	4,713	18,574	3.94
Muraenidae, Congridae (mari	ne eels)				
Gymnothorax, Conger spp.	Eels	398	113	169	1.49
Pomacentridae (damselfishes)					
Abudefduf spp.	Damselfish (unspecified)	98	93	326	3.49
Priacanthidae (glasseyes)					
Priacanthus spp.	Bigeyes/glasseyes	276	266	1,066	4.02
Scaridae (parrotfishes)					
Scaridae (unspecified)	Uhu (parrotfishes)	8,432	8,402	32,285	3.84
Scorpaenidae (scorpionfishes)					
Scorpaenidae (many species)	Scorpionfish (nohu)	132	83	652	7.87
Sharks (Selachii)					
Infraclass: Selachii (multiple orders)	Sharks	6,151	4,482	6,928	1.55
Serranidae (groupers)					
Cephalopholis argus	Roi	131	128	445	3.48
Hyporthodus quernus	Hapuupuu (Hawaiian grouper)	211	194	1,352	6.99
Sphyraenidae (barracudas)					
Sphyraena spp.	Barracudas	2,009	2,009	1,716	0.85
Unspecified Fish Groups					
Various families (unspecified)	Reef fishes (unspecified)	53	0	0	
Miscellaneous Seafood (insuffi	icient information)				
Unknown fish/invertebrates	Miscellaneous (unspecified)	741	192	403	2.10
INVERTEBRATES:					
Crustaceans: Crabs Infraorder: Brachyura (unspecified)	Crabs	602	259	1,972	7.62
Crustaceans: Shrimps					
Heterocarpus spp., Penaeus marginatus	Shrimp (saltwater)	1,678	1,039	6,247	6.01
Mollusks					
Cellana spp.	Limpets (saltwater)	1,311	999	6,444	6.45

D.40

Table D-7 Hawaii June 2014 Estimated Commercial Landings

Group Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Estimated Value of Sold Portion (\$)	Price/ Lb.
Cephalopoda,					
Decapodiformes (unspecified)	Squid	137	60	204	3.43
Octopus spp.	Octopus	1,773	369	1,606	4.35
Invertebrates (unspecified)					
Invertebrates (multiple phyla)	Invertebrates	446	446	37,198	83.33
ALGAE:					
Phyla: Rhodophyta, Chlorophyta (unspecified)	Algae (limu, unspecified)	773	743	6,797	9.15
	Total	2,967,735	2,697,222	\$7,634,480	\$2.83

Table D-8 Hawaii July 2014 Estimated Commercial Landings

Group				Estimated	
Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Value of Sold Portion (\$)	Price/ Lb.
FISHES:					
Scombridae					
Tunas	77 1	2 012	006	1 (00	1.00
Euthynnus affinis	Kawakawa	2,013	896	1,699	1.90
Katsuwonus pelamis Thunnus alalunga	Skipjack tuna Albacore tuna	50,869 49,177	34,887 49,177	61,560 86,732	1.76 1.76
Thunnus allatunga Thunnus albacares	Yellowfin tuna	312,769	277,558	878,337	3.16
Thunnus obesus	Bigeye tuna	1,240,140	1,230,718	4,668,799	3.79
Tribe Thunnini					
(unspecified)	Tunas (unspecified)	363	342	3,072	8.99
Other scombrids					
Acanthocybium solandri	Wahoo	110,802	99,107	276,647	2.79
Scomberoides lysan	Leatherback	35	35	83	2.40
Billfishes					
Istiophoridae					
Istiompax indica	Black marlin	1,905	1,905	2,034	1.07
Istiophorus platypterus	Sailfish	2,501	2,501	2,376	0.95
Kajikia audax	Striped marlin	63,368	63,368	107,401	1.69
Makaira mazara	Blue marlin	147,149	111,937	181,152	1.62
Tetrapturus angustirostris	Shortnose spearfish	26,484	26,484	38,988	1.47
Xiphiidae					
Xiphias gladius	Broadbill swordfish	197,354	197,354	562,960	2.85
Other fishes					
Acanthuridae (tangs, surgeons					
Acanthurus spp., Ctenochaetus spp.	Surgeons/tangs (unspecified)	12,140	11,631	22,086	1.90
Albulidae (bonefishes)					
Albula glossodonta, A. neoguinaica	Oio (bonefish)	153	133	199	1.50
Aulostomidae (trumpetfishes)					
Aulostomus spp.	Trumpetfish	6	6	11	2.00
Belonidae (needlefishes)	1				
Belonidae (unspecified)	Needlefish	16	10	25	2.50
Bothidae (left-eye flounders)					
Bothidae (unspecified)	Flounders	3	3	6	1.82
Bramidae (pomfrets)			_	-	
Taractichthys, Eumegistus, Brama (unspecified)	Pomfret	103,572	103,572	218,879	2.11
Carangidae (jacks & trevallies)				
Carangidae (unspecified)	Ulua/Jacks				
carangidae (anspectivea)	(unspecified)	86	12	64	5.33
Carangoides ferdau	Barred ulua	355	204	650	3.18

Table D-8 Hawaii July 2014 Estimated Commercial Landings

oup Subgroup Scientific Name	Common/local name	Lbs.	Estimated Lbs. Sold	Estimated Value of Sold Portion	Price/ Lb.
Scientific Ivalife	Common/local name	Caught	Solu	(\$)	LD.
Carangoides orthogrammus	Papa ulua	257	218	908	4.16
Caranx ignobilis	White ulua	563	256	617	2.41
Seriola dumerili	Kahala (amberjack)	259	12	60	5.00
Uraspis helvola	Dobe ulua	2	2	5	3.00
Decapterus macarellus	Mackerel scad	14,646	9,983	28,743	2.88
Selar crumenopthalmus	(ōpelu) Bigeye scad (akule)	26,569	17,698	63,597	3.59
Elagatis bipinnulata	Kamanu (rainbow		ŕ		
	runner)	273	205	488	2.38
Chanidae (milkfish)					
Chanos chanos	Milkfish (awa)	775	775	1,209	1.56
Cirrhitidae (hawkfishes)					
Cirrhitus pinnulatus	Po'opa'a (hawkfish)	126	126	445	3.53
Coryphaenidae (mahimahi/d	lolphinfish)				
Coryphaena hippurus, C. equiselis	Mahimahi	179,132	168,941	415,859	2.46
Elopidae (ladyfishes, tarpons	, tenpounders)				
Elops hawaiensis	Hawaiian ladyfish (awa'awa)	28	1	3	4.00
Emmelichthyidae (rovers) Erythrocles scintillans	Golden kalekale	3	0	0	0
Gempylidae (snake mackere	ls)				
Ruvettus pretiosus	Oilfish (walu)	35,804	35,804	44,584	1.25
Holocentridae (squirrel & so	ldierfishes)				
Sargocentron spp.	Squirrelfish	3,176	3,050	14,450	4.74
Kuhliidae (flagtails)					
Kuhlia spp.	Aholehole (flagtails)	102	45	229	5.09
Kyphosidae (sea chubs)					
Kyphosus spp. (various)	Nenue (rudderfish)	1,252	1,251	2,792	2.23
Labridae (wrasses)					
Labridae (unspecified)	Hinalea (wrasse)	536	330	1,333	4.04
Lampridae (moonfishes, opa	ıh)				
Lampris guttatus	Moonfish (opah)	264,595	250,824	277,557	1.11
Lethrinidae (emperors)					
Monotaxis grandoculis	Mu (bigeye emperor)	330	330	1,057	3.21
Lutjanidae (snappers)					
Aphareus rutilans	Lehi (silverjaw)	49	28	139	5.00
Aprion virescens	Uku (gray snapper)	3,218	2,791	15,168	5.44
Etelis carbunculus	Ehu (red snapper)	951	951 1 006	6,930	7.29
Etelis coruscans	Onaga (red snapper)	1,006	1,006	8,610	8.56

Table D-8 Hawaii July 2014 Estimated Commercial Landings

oup Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Estimated Value of Sold Portion (\$)	Price/ Lb.
Lutjanidae (unspecified)	Snappers (unspecified)	652	652	2,616	4.02
Lutjanus kasmira	Ta'ape (blue-lined snapper)	4,531	1,628	2,881	1.77
Pristipomoides filamentosus	Opakapaka (pink snapper)	3,898	3,863	33,009	8.54
Pristipomoides sieboldii	Kalekale	291	273	1,445	5.30
Pristipomoides zonatus	Gindai (flower snapper)	40	22	107	4.95
Monacanthidae (filefishes)					
Aluterus monoceros	Filefish	104	104	186	1.80
Mugilidae (mullets)					
Mugilidae (unspecified)	Mullet	458	333	1,392	4.18
Mullidae (goatfishes)					
Mullidae (unspecified)	Goatfish	6,058	3,186	15,308	4.80
Muraenidae, Congridae (mar	rine eels)				
Gymnothorax, Conger spp.	Eels	360	90	134	1.48
Polynemidae (threadfins)					
Polydactylus sexfilis	Threadfin (moi)	3	3	12	4.00
Pomacentridae (damselfishes	` '				
Abudefduf spp.	Damselfish (unspecified)	61	57	196	3.44
Priacanthidae (glasseyes)					
Priacanthus spp.	Bigeyes/glasseyes	293	293	1,175	4.01
Scaridae (parrotfishes)					
Scaridae (unspecified)	Uhu (parrotfishes)	8,902	8,900	34,620	3.89
Scorpaenidae (scorpionfishes))				
Scorpaenidae (many species)	Scorpionfish (nohu)	118	82	508	6.16
Sharks (Selachii)					
Infraclass: Selachii (multiple orders)	Sharks	10,995	9,784	13,354	1.36
Serranidae (groupers)					
Cephalopholis argus	Roi	67	67	194	2.87
Hyporthodus quernus	Hapuupuu (Hawaiian grouper)	168	168	898	5.34
Sphyraenidae (barracudas)					
Sphyraena spp.	Barracudas	2,715	2,646	2,473	0.93

D.44

Table D-8 Hawaii July 2014 Estimated Commercial Landings

Group				Estimated	
Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Value of Sold Portion (\$)	Price/ Lb.
Unspecified Fish Groups					
Various families (unspecified)	Reef fishes (unspecified)	105	2	2	0.95
Miscellaneous Seafood (insuff	ficient information)				
Unknown fish/invertebrates	Miscellaneous (unspecified)	69	39	75	1.94
INVERTEBRATES:					
Crustaceans: Crabs					
Infraorder: Brachyura (unspecified)	Crabs	1,575	1,203	6,748	5.61
Crustaceans: Shrimps					
Heterocarpus spp., Penaeus marginatus	Shrimp (saltwater)	1,957	1,009	6,591	6.53
Mollusks					
<i>Cellana</i> spp. Cephalopoda,	Limpets (saltwater)	1,774	1,017	6,575	6.46
Decapodiformes (unspecified)	Squid	452	288	955	3.31
Octopus spp.	Octopus	3,208	1,401	6,824	4.87
Invertebrates (unspecified)					
Invertebrates (multiple phyla)	Invertebrates	85	63	120	1.89
ALGAE:					
Phyla: Rhodophyta, Chlorophyta (unspecified)	Algae (limu, unspecified)	685	467	3,658	7.84
	Total	2,904,536	2,744,107	\$8,140,599	\$2.97

Table D-9 Hawaii August 2014 Estimated Commercial Landings

Group			Estimated			
Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Value of Sold Portion (\$)	Price/ Lb.	
FISHES:		-				
Scombridae						
Tunas						
Euthynnus affinis	Kawakawa	2,329	1,330	3,485	2.62	
Katsuwonus pelamis	Skipjack tuna	42,286	32,728	63,350	1.94	
Thunnus alalunga	Albacore tuna	51,492	51,492	93,293	1.81	
Thunnus albacares Thunnus obesus	Yellowfin tuna Bigeye tuna	318,493 1,639,395	302,113 1,617,860	839,865 5,117,268	2.78 3.16	
Tribe Thunnini (unspecified)	Tunas (unspecified)	1,039,393	327	2,808	8.58	
, ,	runas (unspecificu)	1,044	321	2,808	6.56	
Other scombrids			<			
Acanthocybium solandri	Wahoo	75,609	64,354	215,554	3.35	
Scomberoides lysan	Leatherback	13	13	32	2.50	
Billfishes						
Suborder: Xiphioidei	Billfishes (unspecified)	127	0	0		
Istiophoridae						
Istiompax indica	Black marlin	2,213	2,213	3,711	1.68	
Istiophorus platypterus	Sailfish	3,034	2,690	4,555	1.69	
Kajikia audax	Striped marlin	32,667	28,451	63,064	2.22	
Makaira mazara	Blue marlin	104,882	100,519	184,029	1.83	
Tetrapturus angustirostris	Shortnose spearfish	31,881	31,881	55,021	1.73	
Xiphiidae Xiphias gladius	Broadbill swordfish	155,831	149,580	318,297	2.13	
Other fishes	Dioadom swordiish	155,651	147,500	310,277	2.13	
Acanthuridae (tangs, surgeons						
Acanthurus, Ctenochaetus	Surgeons/tangs	11,482	10,759	20,000	1.86	
spp.	(unspecified)	,	,	,		
Albulidae (bonefishes) Albula glossodonta, A. neoguinaica	Oio (bonefish)	78	78	108	1.39	
Aulostomidae (trumpetfishes)						
Aulostomus spp.	Trumpetfish	5	3	5	1.95	
Belonidae (needlefishes)	1					
Belonidae (unspecified)	Needlefish	129	92	336	3.67	
\ 1 V /	reculciisii	12))2	330	3.07	
Bothidae (left-eye flounders)						
Bothidae (unspecified)	Flounders	4	4	8	2.22	
Bramidae (pomfrets)						
Taractichthys, Eumegistus, Brama (unspecified)	Pomfret	106,894	106,894	211,237	1.98	
Carangidae (jacks & trevallies)					
Carangidae (unspecified)	Ulua/Jacks (unspecified)	309	12	30	2.50	
Carangoides ferdau	Barred ulua	574	354	1,201	3.39	
Carangoides orthogrammus	Papa ulua	329	210	946	4.51	
Caranx ignobilis	White ulua	1,033	531	1,359	2.56	

Table D-9 Hawaii August 2014 Estimated Commercial Landings

Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Estimated Value of Sold Portion (\$)	Price/ Lb.
Caranx lugubris	Black ulua	20	0	0	
Caranx sexfasciatus	Sasa ulua	26	0	0	2 00
Seriola dumerili Uraspis helvola	Kahala (amberjack) Dobe ulua	374 7	100 7	200 22	2.00 3.00
Decapterus macarellus	Mackerel scad (ōpelu)	23,673	14,674	43,744	2.98
Selar crumenopthalmus	Bigeye scad (akule)	16,062	11,064	42,217	3.82
Elagatis bipinnulata	Kamanu (rainbow runner)	487	262	771	2.94
Chanidae (milkfish)					
Chanos chanos	Milkfish (awa)	102	102	205	2.00
Cichlidae (cichlids)					
Oreochromis sp.	Tilapia	910	168	588	3.50
Cirrhitidae (hawkfishes)					
Cirrhitus pinnulatus	Po'opa'a (hawkfish)	58	58	208	3.60
Clupeidae, Dussumieriidae (s	sardines/herrings)				
Clupeidae, Dussumieriidae (unspecified)	Herring/sardine	200	0	0	
Coryphaenidae (mahimahi/do	olphinfish)				
Coryphaena hippurus, C. equiselis	Mahimahi	132,224	114,147	339,482	2.97
Elopidae (ladyfishes, tarpons,	tenpounders)				
Elops hawaiensis	Hawaiian ladyfish (awa'awa)	94	4	5	1.50
Emmelichthyidae (rovers)	•				
Erythrocles scintillans	Golden kalekale	14	0	0	
Gempylidae (snake mackerels	3)				
Ruvettus pretiosus	Oilfish (walu)	28,248	28,248	44,123	1.56
Holocentridae (squirrel & sol	dierfishes)				
Sargocentron spp.	Squirrelfish	4,277	3,873	18,360	4.74
Kuhliidae (flagtails)					
Kuhlia spp.	Aholehole (flagtails)	57	44	182	4.11
Kyphosidae (sea chubs)					
Kyphosus spp. (various)	Nenue (rudderfish)	2,310	1,956	3,167	1.62
Labridae (wrasses)					
Labridae (unspecified)	Hinalea (wrasse)	563	290	960	3.31
Lampridae (moonfishes, opah	n)				
Lampris guttatus	Moonfish (opah)	329,996	306,120	291,170	0.95
Lethrinidae (emperors)					
Monotaxis grandoculis	Mu (bigeye emperor)	346	293	999	3.41
Lutjanidae (snappers)	·				
Aphareus rutilans	Lehi (silverjaw)	430	414	1,992	4.81

Table D-9 Hawaii August 2014 Estimated Commercial Landings

up Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Estimated Value of Sold Portion (\$)	Price/ Lb.
Aprion virescens	Uku (gray snapper)	5,725	4,261	20,529	4.82
Etelis carbunculus	Ehu (red snapper)	1,319	1,040	7,400	7.11
Etelis coruscans	Onaga (red snapper)	3,334	2,294	18,868	8.23
Lutjanidae (unspecified)	Snappers (unspecified) Ta'ape (blue-lined	398	297	1,244	4.19
Lutjanus kasmira	snapper)	5,494	2,494	4,142	1.66
Pristipomoides filamentosus	Opakapaka (pink snapper)	7,526	6,662	55,061	8.26
Pristipomoides sieboldii	Kalekale	593	465	2,121	4.56
Pristipomoides zonatus	Gindai (flower snapper)	137	53	260	4.95
Monacanthidae (filefishes)					
Aluterus monoceros	Filefish	38	38	88	2.32
Mugilidae (mullets)					
Mugilidae (unspecified)	Mullet	1,107	1,107	5,261	4.75
Mullidae (goatfishes)					
Mullidae (unspecified)	Goatfish	4,974	2,339	12,250	5.24
Muraenidae, Congridae (mari	ine eels)	•	•	•	
Gymnothorax, Conger spp.	Eels	522	257	413	1.61
Polynemidae (threadfins)					
Polydactylus sexfilis	Threadfin (moi)	2	2	14	9.00
Pomacentridae (damselfishes)					
Abudefduf spp.	Damselfish (unspecified)	76	32	101	3.18
Priacanthidae (glasseyes)	, 1 ,				
Priacanthus spp.	Bigeyes/glasseyes	538	422	1,591	3.77
Scaridae (parrotfishes)				,	
Scaridae (unspecified)	Uhu (parrotfishes)	5,457	5,452	21,505	3.94
Scorpaenidae (scorpionfishes)	• /	,	,	,	
Scorpaenidae (many species)	Scorpionfish (nohu)	136	87	456	5.22
Sharks (Selachii)					
Infraclass: Selachii (multiple orders)	Sharks	10,806	9,485	12,172	1.28
Serranidae (groupers)					
Cephalopholis argus	Roi	62	62	222	3.61
Hyporthodus quernus	Hapuupuu (Hawaiian grouper)	431	310	1,631	5.26
Sphyraenidae (barracudas)					
Sphyraena spp.	Barracudas	951	905	1,137	1.26
Unspecified Fish Groups					
Various families (unspecified)	Reef fishes (unspecified)	48	0	0	0

D.48

Table D-9 Hawaii August 2014 Estimated Commercial Landings

Group Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Estimated Value of Sold Portion (\$)	Price/ Lb.
Miscellaneous Seafood (insuff	icient information)				
Unknown fish/invertebrates	Miscellaneous (unspecified)	321	312	526	1.69
INVERTEBRATES:					
Crustaceans: Crabs Infraorder: Brachyura	Crabs	4,207	3,251	13,786	4.24
(unspecified) Crustaceans: Shrimps					
Heterocarpus spp., Penaeus marginatus	Shrimp (saltwater)	2,344	2,203	11,784	5.35
Mollusks					
Cellana spp.	Limpets (saltwater)	1,430	657	3,841	5.84
Cephalopoda, Decapodiformes (unspecified)	Squid	790	651	2,263	3.47
Octopus spp.	Octopus	4,063	2,430	10,889	4.48
Invertebrates (unspecified)					
Invertebrates (multiple phyla)	Invertebrates	11	11	20	1.90
ALGAE:					
Phyla: Rhodophyta, Chlorophyta (unspecified)	Algae (limu, unspecified)	304	208	1,743	8.38
	Total	3,186,355	3,034,099	\$8,199,275	\$2.70

Table D-10 Hawaii September 2014 Estimated Commercial Landings

Group				Estimated	
Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Value of Sold Portion (\$)	Price/ Lb.
FISHES:					
Scombridae					
Tunas					
Euthynnus affinis	Kawakawa	3,491	2,340	6,727	2.87
Katsuwonus pelamis	Skipjack tuna	22,994	13,736	26,683	1.94
Thunnus alalunga	Albacore tuna	76,916	73,430	107,718	1.47
Thunnus albacares	Yellowfin tuna	203,142	203,142	595,967	2.93
Thunnus obesus	Bigeye tuna	1,552,514	1,472,517	4,564,544	3.10
Tribe Thunnini (unspecified)	Tunas (unspecified)	38	6	17	3.10
Other scombrids					
Acanthocybium solandri	Wahoo	55,090	47,603	176,232	3.70
Scomberoides lysan	Leatherback	14	11	25	2.23
Billfishes					
Suborder: Xiphioidei	Billfishes (unspecified)	382	0	0	0
Istiophoridae					
Istiompax indica	Black marlin	654	654	1,455	2.22
Istiophorus platypterus	Sailfish	6,898	6,898	7,466	1.08
Kajikia audax	Striped marlin	65,014	65,014	117,099	1.80
Makaira mazara	Blue marlin	126,683	76,024	145,853	1.92
Tetrapturus angustirostris	Shortnose spearfish	20,508	20,508	42,164	2.06
Xiphiidae Xiphias gladius	Broadbill swordfish	23,782	22,647	70,892	3.13
Other fishes					
Acanthuridae (tangs, surgeon	s, unicornfishes)				
Acanthurus spp.,	Surgeons/tangs				
Ctenochaetus spp.	(unspecified)	11,676	10,796	20,386	1.89
Albulidae (bonefishes)	()				
Albula glossodonta, A.					
neoguinaica	Oio (bonefish)	300	118	160	1.35
Aulostomidae (trumpetfishes)					
Aulostomus spp.	Trumpetfish	10	1	1	1.50
Belonidae (needlefishes)					
Belonidae (unspecified)	Needlefish	42	37	92	2.45
Bothidae (left-eye flounders)	1 (Codiolisii	.2	3 /	,2	2.15
` • • · · · · · · · · · · · · · · · · ·			•	_	
Bothidae (unspecified) Bramidae (pomfrets)	Flounders	3	3	5	1.85
Taractichthys, Eumegistus, Brama (unspecified)	Pomfret	84,532	84,532	223,317	2.64
Carangidae (jacks & trevallie	s)				
Carangidae (unspecified)	Ulua/Jacks (unspecified)	564	0	0	0
Carangoides ferdau	Barred ulua	867	263	865	3.29
Carangoides	Papa ulua	510	510	1,863	3.66
orthogrammus	_				
Caranx ignobilis	White ulua	1,437	1,243	3,363	2.71

Table D-10 Hawaii September 2014 Estimated Commercial Landings

up				Estimated	
Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Value of Sold Portion (\$)	Price/ Lb.
Caranx lugubris	Black ulua	23	23	41	1.77
Caranx sexfasciatus	Sasa ulua	48	15	47	3.09
Seriola dumerili Uraspis helvola	Kahala (amberjack) Dobe ulua	827 18	391 8	739 21	1.89 2.75
Decapterus macarellus	Mackerel scad (ōpelu)	23,593	15,857	46,814	2.73
Selar crumenopthalmus	Bigeye scad (akule)	17,068	11,617	45,154	3.89
Elagatis bipinnulata	Kamanu (rainbow runner)	407	317	815	2.58
Chanidae (milkfish)					
Chanos chanos	Milkfish (awa)	282	282	348	1.24
Cichlidae (cichlids)					
Oreochromis sp.	Tilapia	928	60	210	3.50
Cirrhitidae (hawkfishes)	-				
Cirrhitus pinnulatus	Po'opa'a (hawkfish)	161	161	413	2.56
Coryphaenidae (mahimahi/d	lolphinfish)				
Coryphaena hippurus, C. equiselis	Mahimahi	244,976	239,106	408,348	1.71
Elopidae (ladyfishes, tarpons	s, tenpounders)				
Elops hawaiensis	Hawaiian ladyfish (awa'awa)	182	8	11	1.50
Emmelichthyidae (rovers)					
Erythrocles scintillans	Golden kalekale	22	1	2	2.20
Gempylidae (snake mackere	ls)				
Ruvettus pretiosus	Oilfish (walu)	21,514	21,514	44,517	2.07
Holocentridae (squirrel & so	oldierfishes)				
Sargocentron spp.	Squirrelfish	9,193	9,193	40,417	4.40
Kuhliidae (flagtails)	•				
Kuhlia spp.	Aholehole (flagtails)	110	88	480	5.49
Kyphosidae (sea chubs)	(2)				
Kyphosus spp. (various)	Nenue (rudderfish)	1,706	1,566	2,948	1.88
Labridae (wrasses)	,	,	,	,	
Labridae (unspecified)	Hinalea (wrasse)	1,141	928	5,355	5.77
Lampridae (moonfishes, opa	` /	,		,	
Lampris guttatus	Moonfish (opah)	241,621	210,140	290,393	1.38
Lethrinidae (emperors)	(-1	,-	,	,	
Monotaxis grandoculis	Mu (bigeye emperor)	920	519	1,942	3.74
Lutjanidae (snappers)	(0.80) (0.14 0.00)	7-7		-,	
Aphareus rutilans	Lehi (silverjaw)	1,156	1,096	4,901	4.47
Aprion virescens	Uku (gray snapper)	12,946	10,146	40,411	3.98
Etelis carbunculus	Ehu (red snapper)	2,202	1,844	10,339	5.61
Etelis coruscans	Onaga (red snapper)	11,881	11,224	80,437	7.17
Lutjanidae (unspecified)	Snappers (unspecified)	1,209	452	1,769	3.91

Table D-10 Hawaii September 2014 Estimated Commercial Landings

oup Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Estimated Value of Sold Portion (\$)	Price/ Lb.
Lutjanus kasmira	Ta'ape (blue-lined snapper)	6,741	2,441	4,207	1.72
Pristipomoides	Opakapaka (pink snapper)	18,986	17,695	103,627	5.86
filamentosus Pristipomoides sieboldii Pristipomoides zonatus	Kalekale Gindai (flower snapper)	2,629 377	1,812 251	6,840 1,152	3.78 4.58
Monacanthidae (filefishes)					
Aluterus monoceros	Filefish	80	23	34	1.48
Mugilidae (mullets)					
Mugilidae (unspecified)	Mullet	1,630	1,626	7,785	4.79
Mullidae (goatfishes)		•	ŕ	ŕ	
Mullidae (unspecified)	Goatfish	6,934	5,614	27,695	4.93
Muraenidae, Congridae (mai	rine eels)	,	,	,	
Gymnothorax, Conger spp.	Eels	310	177	206	1.16
Polynemidae (threadfins)					
Polydactylus sexfilis	Threadfin (moi)	35	35	222	6.37
Pomacentridae (damselfishes	` '				
Abudefduf spp.	Damselfish (unspecified)	82	78	239	3.07
Priacanthidae (glasseyes)					
Priacanthus spp.	Bigeyes/glasseyes	916	913	3,653	4.00
Scaridae (parrotfishes)	8-7 8 7	,	,	2,000	
Scaridae (unspecified)	Uhu (parrotfishes)	7,421	7,416	28,105	3.79
Scorpaenidae (scorpionfishes	•	,,	,,	20,100	2.,,
Scorpaenidae (many species)	Scorpionfish (nohu)	374	310	1,763	5.68
Sharks (Selachii)					
Infraclass: Selachii (multiple orders)	Sharks	13,126	8,067	12,267	1.52
Serranidae (groupers)					
Cephalopholis argus	Roi	141	141	492	3.50
Hyporthodus quernus	Hapuupuu (Hawaiian grouper)	1,787	1,786	9,361	5.24
Sphyraenidae (barracudas)					
Sphyraena spp.	Barracudas	596	596	831	1.39
Unspecified Fish Groups					
Various families (unspecified)	Reef fishes (unspecified)	40	0	0	
Miscellaneous Seafood (insuf	ficient information)				
Unknown fish/invertebrates	Miscellaneous (unspecified)	1,168	1,157	1,186	1.02

D.52

Table D-10 Hawaii September 2014 Estimated Commercial Landings

Group				Estimated	
Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Value of Sold Portion (\$)	Price/ Lb.
INVERTEBRATES:					
Crustaceans: Crabs					
Infraorder: Brachyura (unspecified)	Crabs	4,934	3,393	13,154	3.88
Crustaceans: Lobsters					
Panulirus penicillatus, P. marginatus	Spiny lobster	2,604	1,979	21,267	10.75
Scyllarides spp.	Slipper lobster	14	0	0	0
Crustaceans: Shrimps					
Heterocarpus spp., Penaeus marginatus	Shrimp (saltwater)	1,651	1,364	8,907	6.53
Mollusks					
<i>Cellana</i> spp. Cephalopoda,	Limpets (saltwater)	1,459	696	4,876	7.00
Decapodiformes (unspecified)	Squid	1,121	999	3,396	3.40
Octopus spp.	Octopus	4,611	3,443	15,560	4.52
Invertebrates (unspecified)					
Invertebrates (multiple phyla)	Invertebrates	12	12	84	6.81
ALGAE:					
Phyla: Rhodophyta, Chlorophyta (unspecified)	Algae (limu, unspecified)	383	383	4,256	11.13
	Total	2,932,357	2,700,996	\$7,420,931	\$2.75

Table D-11 Hawaii October 2014 Estimated Commercial Landings

Group				Estimated	
Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Value of Sold Portion (\$)	Price/ Lb.
FISHES:					
Scombridae					
Tunas					
Euthynnus affinis	Kawakawa	3,542	1,830	5,967	3.26
Katsuwonus pelamis	Skipjack tuna	19,741	10,551	21,228	2.01
Thunnus alalunga	Albacore tuna	5,225	4,815	12,239	2.54
Thunnus albacares	Yellowfin tuna	142,497	132,200	448,951	3.40
Thunnus obesus	Bigeye tuna	1,580,225	1,527,540	5,459,407	3.57
Tribe Thunnini (unspecified)	Tunas (unspecified)	76	49	99	2.00
Other scombrids					
Acanthocybium solandri	Wahoo	45,834	40,353	156,125	3.87
Scomberoides lysan	Leatherback	82	22	55	2.46
Billfishes					
Istiophoridae					
Istiompax indica	Black marlin	1,544	764	438	0.57
Istiophorus platypterus	Sailfish	6,702	6,702	6,213	0.93
Kajikia audax	Striped marlin	115,653	115,653	142,066	1.23
Makaira mazara	Blue marlin	144,027	113,397	134,538	1.19
Tetrapturus angustirostris	Shortnose spearfish	27,460	26,671	33,427	1.25
Xiphiidae Xiphias gladius	Broadbill swordfish	16,580	16,580	45,282	2.73
Other fishes	Drown bwording.	10,000	10,200	,	,5
	as unicorrefiches)				
Acanthuridae (tangs, surgeon					
Acanthurus spp., Ctenochaetus spp.	Surgeons/tangs (unspecified)	8,999	8,320	14,915	1.79
Albulidae (bonefishes)					
Albula glossodonta, A. neoguinaica	Oio (bonefish)	1,561	1,450	2,126	1.47
Aulostomidae (trumpetfish	es)				
Aulostomus spp.	Trumpetfish	83	83	82	0.99
	Tumpetiisii	63	65	62	0.99
Belonidae (needlefishes)					
Belonidae (unspecified)	Needlefish	75	75	190	2.53
Bothidae (left-eye flounders)					
Bothidae (unspecified)	Flounders	4	3	5	1.72
Bramidae (pomfrets)					
Taractichthys,					
Eumegistus, Brama (unspecified)	Pomfret	109,949	109,949	216,958	1.97
Carangidae (jacks & trevallie	es)				
Carangidae (unspecified)	Ulua/Jacks (unspecified)	242	46	119	2.62
Carangoides ferdau	Barred ulua	535	156	504	3.24
Carangoides jeraau Carangoides					
orthogrammus	Papa ulua	523	523	2,109	4.04

Table D-11 Hawaii October 2014 Estimated Commercial Landings

Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Estimated Value of Sold Portion (\$)	Price/ Lb.
Caranx ignobilis	White ulua	1,193	844	2,406	2.85
Caranx lugubris	Black ulua	158	158	407	2.58
Caranx sexfasciatus	Sasa ulua	111	0	0	0
Pseudocaranx dentex	Butaguchi (pig-lipped ulua)	5	0	0	0
Seriola dumerili	Kahala (amberjack)	984	421	842	2.00
Uraspis helvola	Dobe ulua	156	64	190	2.99
Decapterus macarellus	Mackerel scad (ōpelu)	25,153	16,339	47,500	2.91
Selar crumenopthalmus	Bigeye scad (akule)	12,096	9,597	38,121	3.97
Elagatis bipinnulata	Kamanu (rainbow runner)	468	468	908	1.94
Chanidae (milkfish)					
Chanos chanos	Milkfish (awa)	163	163	240	1.48
Cichlidae (cichlids)					
Oreochromis sp.	Tilapia	599	14	59	4.21
Cirrhitidae (hawkfishes)					
Cirrhitus pinnulatus	Po'opa'a (hawkfish)	86	86	180	2.10
Clupeidae, Dussumieriidae	(sardines/herrings)				
Clupeidae, Dussumieriidae (unspecified)	Herring/sardine	2,066	1,096	2,192	2.00
Coryphaenidae (mahimahi/c	lolphinfish)				
Coryphaena hippurus, C. equiselis	Mahimahi	250,874	243,794	510,551	2.09
Elopidae (ladyfishes, tarpons	s, tenpounders)				
Elops hawaiensis	Hawaiian ladyfish (awa'awa)	125	68	102	1.50
Emmelichthyidae (rovers)					
Erythrocles scintillans	Golden kalekale	46	9	19	2.21
Gempylidae (snake mackere	ls)				
Ruvettus pretiosus	Oilfish (walu)	30,527	30,527	44,039	1.44
Holocentridae (squirrel & so	, ,	50,027	50,527	,023	
Sargocentron spp.	Squirrelfish	8,493	8,420	37,166	4.41
Kuhliidae (flagtails)	Squirenisii	0,773	0,420	37,100	7,71
, • ,	A1-1-1-1-(C4-1-)	214	214	1 470	4.70
Kuhlia spp.	Aholehole (flagtails)	314	314	1,478	4.70
Kyphosidae (sea chubs)			222	4 (00	
<i>Kyphosus</i> spp. (various)	Nenue (rudderfish)	1,067	992	1,629	1.64
Labridae (wrasses)					
Labridae (unspecified)	Hinalea (wrasse)	1,196	927	3,913	4.22
Lampridae (moonfishes, opa	nh)				
Lampris guttatus	Moonfish (opah)	228,208	216,753	266,107	1.23

Table D-11 Hawaii October 2014 Estimated Commercial Landings

up Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Estimated Value of Sold Portion (\$)	Price/ Lb.
Lethrinidae (emperors)					
Monotaxis grandoculis	Mu (bigeye emperor)	532	532	1,618	3.04
Lutjanidae (snappers)					
Aphareus rutilans	Lehi (silverjaw)	1,166	1,166	4,768	4.09
Aprion virescens	Uku (gray snapper)	6,068	6,068	27,258	4.49
Etelis carbunculus	Ehu (red snapper)	2,581	1,674	8,419	5.03
Etelis coruscans	Onaga (red snapper)	8,416	8,416	63,580	7.55
Lutjanidae (unspecified)	Snappers (unspecified)	309	309	1,205	3.90
Lutjanus kasmira	Ta'ape (blue-lined snapper)	2,398	1,966	3,386	1.72
Pristipomoides auricilla	Yellow-tail kalekale	25	0	0	0
Pristipomoides	Opakapaka (pink snapper)	14,146	14,146	81,523	5.76
filamentosus Pristipomoides sieboldii	Kalekale	1,967	1,624	5,405	3.33
Pristipomoides zonatus	Gindai (flower snapper)	251	197	869	4.41
Monacanthidae (filefishes)	Gindar (nower snapper)	231	177	007	7.71
Aluterus monoceros	Filefish	26	26	34	1.35
Mugilidae (mullets)	THOUGH	20	20	3.	1.50
Mugilidae (unspecified)	Mullet	1,175	1,044	3,779	3.62
Mullidae (goatfishes)	111011101	1,170	1,0	2,772	5.02
Mullidae (unspecified)	Goatfish	8,101	6,167	33,344	5.41
Muraenidae, Congridae (ma		-,	2,201	,	
Gymnothorax, Conger	,				
spp.	Eels	124	101	146	1.44
Polynemidae (threadfins)					
Polydactylus sexfilis	Threadfin (moi)	44	9	81	8.66
Pomacentridae (damselfishe	s)				
Abudefduf spp.	Damselfish (unspecified)	130	130	454	3.51
Priacanthidae (glasseyes)					
Priacanthus spp.	Bigeyes/glasseyes	1,220	1,064	4,132	3.88
Scaridae (parrotfishes)					
Scaridae (unspecified)	Uhu (parrotfishes)	6,014	5,824	21,203	3.64
Scorpaenidae (scorpionfishe	-	,	,	,	
Scorpaenidae (many species)	Scorpionfish (nohu)	234	159	904	5.68
Sharks (Selachii)					
Infraclass: Selachii (multiple orders)	Sharks	8,172	7,933	8,931	1.13
Serranidae (groupers)					
Cephalopholis argus	Roi	122	14	38	2.71
Hyporthodus quernus	Hapuupuu (Hawaiian				
· 1	grouper)	1,308	1,254	6,909	5.51

Table D-11
Hawaii October 2014 Estimated Commercial Landings

Group				Estimated	
Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Value of Sold Portion (\$)	Price/ Lb.
Sphyraenidae (barracudas)					
Sphyraena spp.	Barracudas	976	950	1,170	1.23
Unspecified Fish Groups					
Various families (unspecified)	Reef fishes (unspecified)	37	37	37	1.00
Miscellaneous Seafood (insu	fficient information)				
Unknown fish/invertebrates	Miscellaneous (unspecified)	539	531	589	1.11
INVERTEBRATES:					
Crustaceans: Crabs Infraorder: Brachyura (unspecified)	Crabs	4,098	2,617	11,008	4.21
Crustaceans: Lobsters					
Panulirus penicillatus, P. marginatus	Spiny lobster	1,104	927	9,772	10.54
Scyllarides spp.	Slipper lobster	46	28	220	7.99
Crustaceans: Shrimps					
Heterocarpus spp., Penaeus marginatus	Shrimp (saltwater)	1,835	621	4,460	7.18
Mollusks					
<i>Cellana</i> spp. Cephalopoda,	Limpets (saltwater)	1,125	633	5,090	8.04
Decapodiformes (unspecified)	Squid	856	511	1,875	3.67
Octopus spp.	Octopus	4,673	3,680	16,268	4.42
Invertebrates (unspecified)					
Invertebrates (multiple phyla)	Invertebrates	12	12	23	1.87
ALGAE:					
Phyla: Rhodophyta, Chlorophyta (unspecified)	Algae (limu, unspecified)	237	210	1,340	6.40
	Total	2,875,314	2,719,366	\$7,990,930	\$2.94

Table D-12 Hawaii November 2014 Estimated Commercial Landings

Group				Estimated	
Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Value of Sold Portion (\$)	Price/ Lb.
FISHES:					
Scombridae					
Tunas					
Euthynnus affinis	Kawakawa	6,208	2,323	7,126	3.07
Katsuwonus pelamis	Skipjack tuna	22,847	14,782	31,602	2.14
Thunnus alalunga	Albacore tuna	6,793	4,181	11,751	2.81
Thunnus albacares	Yellowfin tuna	160,857	141,849	406,526	2.87
Thunnus obesus	Bigeye tuna	1,616,482	1,480,186	4,863,953	3.29
Tribe Thunnini (unspecified)	Tunas (unspecified)	1,775	1,775	2,194	1.24
Other scombrids	*** 1	7.6.700	10.054	146.610	2.04
Acanthocybium solandri	Wahoo	56,599	48,254	146,610	3.04
Scomberoides lysan	Leatherback	6	6	14	2.54
Billfishes					
Istiophoridae					
Istiompax indica	Black marlin	1,914	1,914	1,883	0.98
Istiophorus platypterus	Sailfish	2,660	2,162	2,049	0.95
Kajikia audax	Striped marlin	148,382	148,382	160,958	1.08
Makaira mazara	Blue marlin	132,914	79,604	98,359	1.24
Tetrapturus angustirostris Xiphiidae	Shortnose spearfish	25,528	24,856	33,045	1.33
Xiphias gladius	Broadbill swordfish	47,397	15,089	47,721	3.16
Other fishes					
Acanthuridae (tangs, surgeon	s, unicornfishes)				
Acanthurus spp., Ctenochaetus spp.	Surgeons/tangs (unspecified)	5,796	5,246	10,377	1.98
Albulidae (bonefishes)					
Albula glossodonta, A. neoguinaica	Oio (bonefish)	362	145	225	1.56
Aulostomidae (trumpetfishes)					
Aulostomus spp.	Trumpetfish	18	10	14	1.38
Belonidae (needlefishes)	Tumpetisii	10	10	17	1.50
· · · · · · · · · · · · · · · · · · ·	N. 11 (7.1	2.4	0.4	22.6	2.01
Belonidae (unspecified)	Needlefish	84	84	236	2.81
Bothidae (left-eye flounders)					
Bothidae (unspecified)	Flounders	3	3	6	2.50
Bramidae (pomfrets)					
Taractichthys, Eumegistus, Brama (unspecified)	Pomfret	54,697	54,697	172,279	3.15
Carangidae (jacks & trevallie	s)				
Carangidae (unspecified)	Ulua/Jacks (unspecified)	343	7	21	3.00
Carangoides ferdau	Barred ulua	707	145	366	2.53
Carangoides Carangoides					
orthogrammus	Papa ulua	445	355	1,305	3.68
Caranx ignobilis	White ulua	864	634	1,801	2.84

Table D-12 Hawaii November 2014 Estimated Commercial Landings

up				Estimated	
Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Value of Sold Portion (\$)	Price/ Lb.
Caranx lugubris	Black ulua	138	138	290	2.10
Caranx sexfasciatus	Sasa ulua	5	0	0	0
Pseudocaranx dentex	Butaguchi (pig-lipped ulua)	34	34	85	2.50
Seriola dumerili	Kahala (amberjack)	1,602	524	768	1.46
Uraspis helvola	Dobe ulua	89	87	260	3.00
Decapterus macarellus Selar crumenopthalmus	Mackerel scad (ōpelu) Bigeye scad (akule)	15,779 56,234	8,596 41,194	23,923 107,892	2.78 2.62
Elagatis bipinnulata	Kamanu (rainbow runner)	632	632	973	1.54
Chanidae (milkfish)	ramana (ramoow ramier)	032	032	713	1.51
Chanos chanos	Milkfish (awa)	104	23	28	1.25
Cichlidae (cichlids)	Wilkiisii (awa)	104	23	20	1.23
Oreochromis sp.	Tilapia	595	0	0	
Cirrhitidae (hawkfishes)	тпарта	373	O .	O	
Cirrhitus pinnulatus	Po'opa'a (hawkfish)	53	41	104	2.55
Coryphaenidae (mahimahi/do	1 ,	33	71	104	2.33
Coryphaena hippurus, C.	-				
equiselis	Mahimahi	191,616	170,852	449,900	2.63
Elopidae (ladyfishes, tarpons,	tenpounders)				
Elops hawaiensis	Hawaiian ladyfish (awa'awa)	116	8	12	1.50
Emmelichthyidae (rovers)	,				
Erythrocles scintillans	Golden kalekale	6	5	13	2.85
Gempylidae (snake mackerels	s)				
Ruvettus pretiosus	Oilfish (walu)	37,232	34,566	16,859	0.49
Holocentridae (squirrel & sol	dierfishes)				
Sargocentron spp.	Squirrelfish	6,494	6,371	27,060	4.25
Kuhliidae (flagtails)					
Kuhlia spp.	Aholehole (flagtails)	74	74	383	5.15
Kyphosidae (sea chubs)					
Kyphosus spp. (various)	Nenue (rudderfish)	1,345	1,073	2,027	1.89
Labridae (wrasses)					
Labridae (unspecified)	Hinalea (wrasse)	486	302	1,792	5.94
Lampridae (moonfishes, opal	h)				
Lampris guttatus	Moonfish (opah)	162,460	115,614	222,563	1.93
Lethrinidae (emperors)					
Monotaxis grandoculis	Mu (bigeye emperor)	206	206	726	3.53
Lutjanidae (snappers)					
		000	922	2.622	4.36
Aphareus rutilans	Lehi (silverjaw)	898	832	3,632	4.30
Aphareus rutilans Aprion virescens Etelis carbunculus	Lehi (silverjaw) Uku (gray snapper) Ehu (red snapper)	898 7,478 2,909	5,876 1,993	26,036 11,081	4.36 4.43 5.56

Table D-12 Hawaii November 2014 Estimated Commercial Landings

oup				Estimated	
Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Value of Sold Portion (\$)	Price/ Lb.
Etelis coruscans Lutjanidae (unspecified)	Onaga (red snapper) Snappers (unspecified)	7,735 356	5,583 235	45,552 1,055	8.16 4.49
Lutjanus kasmira	Ta'ape (blue-lined snapper)	1,487	1,171	1,922	1.64
Pristipomoides auricilla	Yellow-tail kalekale	2	2	6	3.10
Pristipomoides filamentosus	Opakapaka (pink snapper)	12,449	10,777	69,004	6.40
Pristipomoides sieboldii Pristipomoides zonatus	Kalekale Gindai (flower snapper)	1,587 386	1,043 270	3,816 1,196	3.66 4.43
Monacanthidae (filefishes)					
Aluterus monoceros	Filefish	27	12	33	2.68
Mugilidae (mullets)					
Mugilidae (unspecified)	Mullet	796	796	3,553	4.46
Mullidae (goatfishes)					
Mullidae (unspecified)	Goatfish	4,820	3,920	17,567	4.48
Muraenidae, Congridae (mar	ine eels)				
Gymnothorax, Conger spp.	Eels	67	36	42	1.20
Polynemidae (threadfins)					
Polydactylus sexfilis	Threadfin (moi)	20	15	132	9.01
Pomacentridae (damselfishes)					
Abudefduf spp.	Damselfish (unspecified)	143	137	502	3.60
Priacanthidae (glasseyes)					
Priacanthus spp.	Bigeyes/glasseyes	794	789	2,727	3.40
Scaridae (parrotfishes)					
Scaridae (unspecified)	Uhu (parrotfishes)	2,959	2,871	12,029	4.19
Scorpaenidae (scorpionfishes)					
Scorpaenidae (many species)	Scorpionfish (nohu)	211	154	1,007	6.54
Sharks (Selachii)					
Infraclass: Selachii (multiple orders)	Sharks	15,567	8,600	8,258	0.96
Serranidae (groupers)					
Cephalopholis argus Hyporthodus quernus	Roi Hapuupuu (Hawaiian grouper)	83 1,425	83 439	198 2,456	2.39 5.59
Sphyraenidae (barracudas) <i>Sphyraena spp.</i>	Barracudas	475	393	886	2.23
Unspecified Fish Groups					
Various families (unspecified)	Reef fishes (unspecified)	10	0	0	

Table D-12 Hawaii November 2014 Estimated Commercial Landings

Group Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Estimated Value of Sold Portion (\$)	Price/ Lb.
Miscellaneous Seafood (insuff	ficient information)				
Unknown fish/invertebrates	Miscellaneous (unspecified)	426	402	583	1.45
INVERTEBRATES:					
Crustaceans: Crabs Infraorder: Brachyura (unspecified)	Crabs	3,939	2,739	11,977	4.37
Crustaceans: Lobsters					
Panulirus penicillatus, P. marginatus	Spiny lobster	917	845	9,254	10.95
Scyllarides spp.	Slipper lobster	26	6	50	8.00
Crustaceans: Shrimps					
Heterocarpus spp., Penaeus marginatus	Shrimp (saltwater)	2,825	585	4,234	7.24
Mollusks					
<i>Cellana</i> spp. Cephalopoda,	Limpets (saltwater)	1,881	1,215	7,510	6.18
Decapodiformes (unspecified)	Squid	514	236	902	3.82
Octopus spp.	Octopus	3,910	2,998	14,420	4.81
Invertebrates (unspecified)					
Invertebrates (multiple phyla)	Invertebrates	298	8	16	1.90
ALGAE: Phyla: Rhodophyta, Chlorophyta (unspecified)	Algae (limu, unspecified)	192	146	1,504	10.31
	Total	2,846,593	2,462,236	\$7,119,219	\$2.89

Table D-13 Hawaii December 2014 Estimated Commercial Landings

Group Subgroup Scientific Name	Common/local name	Lbs. Caught	Estimated Lbs. Sold	Estimated Value of Sold Portion (\$)	Price/ Lb.
FISHES:					
Scombridae					
Tunas	I/1	4.674	1.000	5 201	2.70
Euthynnus affinis Katsuwonus pelamis	Kawakawa Skipjack tuna	4,674 95,252	1,960 72,850	5,301 60,748	2.70 0.83
Thunnus alalunga	Albacore tuna	41,978	41,978	65,981	1.57
Thunnus albacares	Yellowfin tuna	257,166	249,590	824,413	3.30
Thunnus obesus	Bigeye tuna	2,079,612	2,079,612	7,959,499	3.83
Tribe Thunnini	Tunas (unspecified)	393	163	320	1.96
(unspecified)	runas (unspecificu)	393	103	320	1.90
Other scombrids					
Acanthocybium solandri	Wahoo	80,015	80,007	226,963	2.84
Scomberoides lysan	Leatherback	2	2	6	2.75
Billfishes					
Suborder: Xiphioidei	Billfishes (unspecified)	382	0	0	
Istiophoridae	Black marlin	1.012	1.012	2.510	1 21
Istionpax indica	Sailfish	1,913 2,456	1,913 497	2,510 586	1.31 1.18
Istiophorus platypterus Kajikia audax	Striped marlin	169,452	169,452	238,490	1.18
Makaira mazara	Blue marlin	81,622	65,392	119,853	1.83
Tetrapturus angustirostris	Shortnose spearfish	52,210	52,210	61,833	1.18
Xiphiidae		- , -	, ,	- ,	
Xiphias gladius	Broadbill swordfish	97,402	32,429	104,975	3.24
Other fishes		,	,	,	
Acanthuridae (tangs, surgeons,	unicornfishes)				
Acanthurus spp., Ctenochaetus spp.	Surgeons/tangs (unspecified)	7,114	6,357	12,361	1.94
Albulidae (bonefishes)					
Albula glossodonta, A. neoguinaica	Oio (bonefish)	419	391	559	1.43
Aulostomidae (trumpetfishes)					
Aulostomus spp.	Trumpetfish	79	2	4	2.50
Belonidae (needlefishes)					
Belonidae (unspecified)	Needlefish	106	106	208	1.96
Bothidae (left-eye flounders)					
Bothidae (unspecified)	Flounders	4	4	7	1.84
Bramidae (pomfrets)	1104114110	•		,	1.0.
Taractichthys, Eumegistus,					
Brama (unspecified)	Pomfret	59,861	59,861	256,521	4.29
Carangidae (jacks & trevallies)					
Carangidae (unspecified)	Ulua/Jacks (unspecified)	365	250	732	2.93
Carangoides ferdau	Barred ulua	507	37	124	3.38
Carangoides orthogrammus	Papa ulua	1,103	633	2,385	3.77
Caranx ignobilis Caranx lugubris	White ulua Black ulua	927 17	905 0	2,468 0	2.73

Section D: Hawaii

Table D-13 Hawaii December 2014 Estimated Commercial Landings

oup Subgroup		Lbs.	Estimated Lbs.	Estimated Value of Sold	Price/
Scientific Name	Common/local name	Caught	Sold	Portion (\$)	Lb.
Caranx sexfasciatus	Sasa ulua	25	0	0	0
Pseudocaranx dentex	Butaguchi (pig-lipped ulua)	130	97	333	3.45
Seriola dumerili	Kahala (amberjack)	3,437	592	1,154	1.95
Uraspis helvola	Dobe ulua	1,185	130	391	3.00
Decapterus macarellus Selar crumenopthalmus	Mackerel scad (ōpelu) Bigeye scad (akule)	18,521	9,394	30,642	3.26 3.41
Elagatis bipinnulata	Kamanu (rainbow	25,600	13,750	46,858	
Ziuguiis oipiiniiiuu	runner)	467	467	724	1.55
Chanidae (milkfish)					
Chanos chanos	Milkfish (awa)	83	8	12	1.50
Cirrhitidae (hawkfishes)					
Cirrhitus pinnulatus	Po'opa'a (hawkfish)	18	18	51	2.91
Clupeidae, Dussumieriidae	(sardines/herrings)				
Clupeidae, Dussumieriidae (unspecified)	Herring/sardine	950	950	2,850	3.00
Coryphaenidae (mahimahi/d	olphinfish)				
Coryphaena hippurus, C. equiselis	Mahimahi	98,443	91,331	291,799	3.19
Elopidae (ladyfishes, tarpons	, tenpounders)				
Elops hawaiensis	Hawaiian ladyfish (awa'awa)	34	34	51	1.50
Emmelichthyidae (rovers)	,				
Erythrocles scintillans	Golden kalekale	24	5	14	2.72
Gempylidae (snake mackerel	s)				
Ruvettus pretiosus	Oilfish (walu)	72,224	64,365	12,870	0.20
Holocentridae (squirrel & so	ldierfishes)				
Sargocentron spp.	Squirrelfish	3,783	3,783	17,152	4.53
Kuhliidae (flagtails)					
Kuhlia spp.	Aholehole (flagtails)	71	58	258	4.42
Kyphosidae (sea chubs)					
Kyphosus spp. (various)	Nenue (rudderfish)	1,088	964	1,819	1.89
Labridae (wrasses)					
Labridae (unspecified)	Hinalea (wrasse)	545	251	1,064	4.24
Lampridae (moonfishes, opa	h)				
Lampris guttatus	Moonfish (opah)	140,110	88,563	254,259	2.87
Lethrinidae (emperors)					
Monotaxis grandoculis	Mu (bigeye emperor)	154	154	502	3.26
Lutjanidae (snappers)					
Aphareus rutilans	Lehi (silverjaw)	1,155	1,089	5,615	5.16
Aprion virescens	Uku (gray snapper)	12,414	10,076	44,439	4.41
Etelis carbunculus	Ehu (red snapper)	5,703	4,240	27,285	6.44
Etelis coruscans	Onaga (red snapper)	15,076	12,280	118,354	9.64

Section D: Hawaii

Table D-13 Hawaii December 2014 Estimated Commercial Landings

oup Subgroup		Lbs.	Estimated Lbs.	Estimated Value of Sold	Price/
Scientific Name	Common/local name	Caught	Sold	Portion (\$)	Lb.
Lutjanidae (unspecified)	Snappers (unspecified)	434	110	186	1.70
Lutjanus kasmira	Ta'ape (blue-lined snapper)	1,226	1,098	1,940	1.77
Pristipomoides auricilla	Yellow-tail kalekale	12	12	29	2.48
Pristipomoides filamentosus	Opakapaka (pink snapper)	27,224	24,875	169,952	6.83
Pristipomoides sieboldii Pristipomoides zonatus	Kalekale Gindai (flower snapper)	2,900 442	2,465 288	9,080 1,555	3.68 5.39
Monacanthidae (filefishes)					
Aluterus monoceros	Filefish	104	104	292	2.80
Mugilidae (mullets)					
Mugilidae (unspecified)	Mullet	159	159	585	3.67
Mullidae (goatfishes)					
Mullidae (unspecified)	Goatfish	7,593	6,747	27,540	4.08
Muraenidae, Congridae (mari	ne eels)				
Gymnothorax, Conger spp.	Eels	56	26	30	1.15
Polynemidae (threadfins)					
Polydactylus sexfilis	Threadfin (moi)	34	5	41	7.67
Pomacentridae (damselfishes)					
Abudefduf spp.	Damselfish (unspecified)	80	38	108	2.87
Priacanthidae (glasseyes)	, ,				
Priacanthus spp.	Bigeyes/glasseyes	656	530	2,222	4.19
Scaridae (parrotfishes)				,	
Scaridae (unspecified)	Uhu (parrotfishes)	3,260	3,251	13,209	4.06
Scorpaenidae (scorpionfishes)	· · · · · · · · · · · · · · · · · · ·	,	,	,	
Scorpaenidae (many species)	Scorpionfish (nohu)	312	226	2,049	9.09
Sharks (Selachii)					
Infraclass: Selachii (multiple orders)	Sharks	17,067	14,478	13,227	0.91
Serranidae (groupers)					
Cephalopholis argus	Roi	39	33	106	3.26
Hyporthodus quernus	Hapuupuu (Hawaiian grouper)	837	777	4,627	5.96
Sphyraenidae (barracudas)					
Sphyraena spp.	Barracudas	658	654	957	1.46
Unspecified Fish Groups					
Various families (unspecified)	Reef fishes (unspecified)	10	0	0	0
Miscellaneous Seafood (insuffi	cient information)				
Unknown fish/invertebrates	Miscellaneous (unspecified)	385	373	433	1.16

D.64

Table D-13 Hawaii December 2014 Estimated Commercial Landings

Group Subgroup		Lbs.	Estimated Lbs.	Estimated Value of Sold	Price/
Scientific Name	Common/local name	Caught	Sold	Portion (\$)	Lb.
INVERTEBRATES:					
Crustaceans: Crabs Infraorder: Brachyura (unspecified)	Crabs	3,541	2,733	12,208	4.47
Crustaceans: Lobsters					
Panulirus penicillatus, P. marginatus	Spiny lobster	1,496	1,455	17,143	11.79
Scyllarides spp.	Slipper lobster	35	30	238	8.00
Crustaceans: Shrimps					
Heterocarpus spp., Penaeus marginatus	Shrimp (saltwater)	1,919	947	6,397	6.76
Mollusks					
<i>Cellana</i> spp. Cephalopoda,	Limpets (saltwater)	1,335	1,058	6,671	6.31
Decapodiformes (unspecified)	Squid	16	16	62	4.00
Octopus spp.	Octopus	2,102	1,670	7,909	4.74
Invertebrates (unspecified)					
Invertebrates (multiple phyla)	Invertebrates	229	229	20,583	90.00
ALGAE:					
Phyla: Rhodophyta, Chlorophyta (unspecified)	Algae (limu, unspecified)	441	441	5,222	11.84
	Total	3,510,873	3,284,028	\$11,129,944	\$3.39

The following are summary charts of the major species and species groups by month:

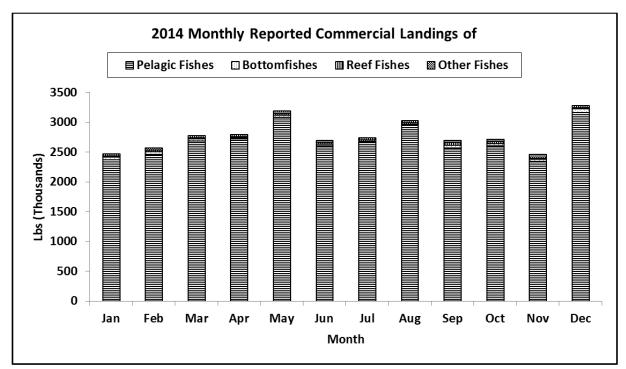


Figure D-1-1

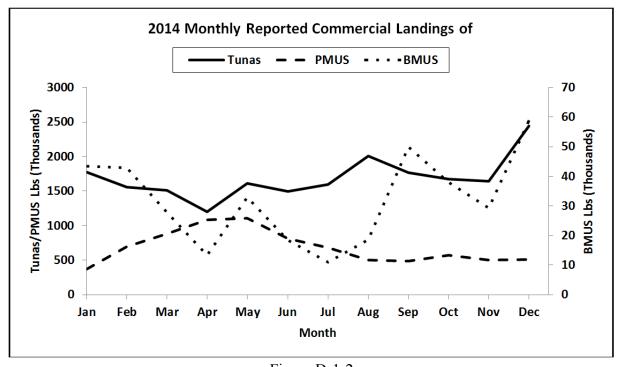


Figure D-1-2

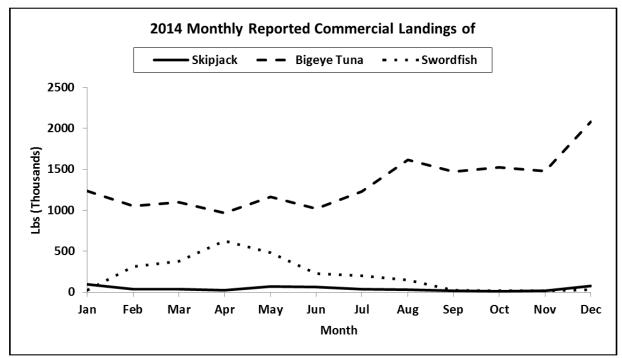


Figure D-1-3

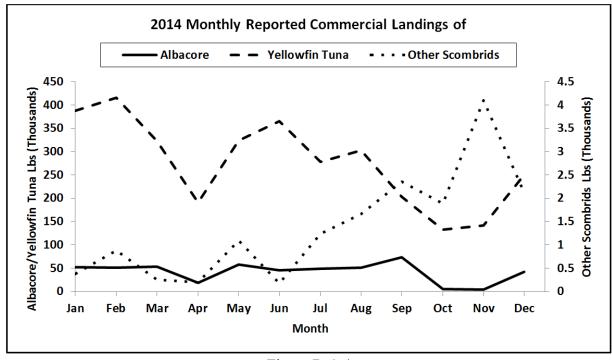


Figure D-1-4

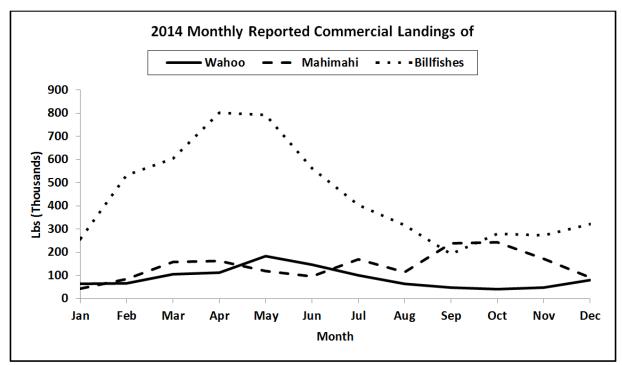


Figure D-1-5

The following are seasonality plots for the major species or species groups, showing the average weight landed during each month for all years combined:

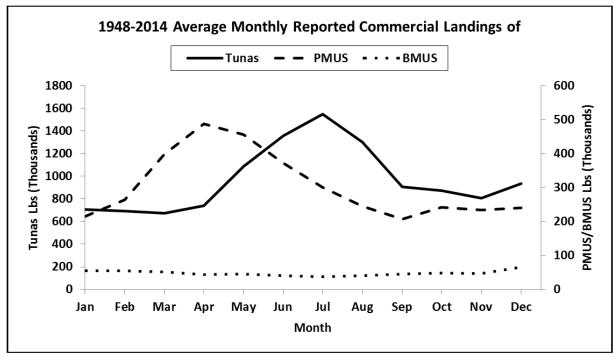


Figure D-2-1

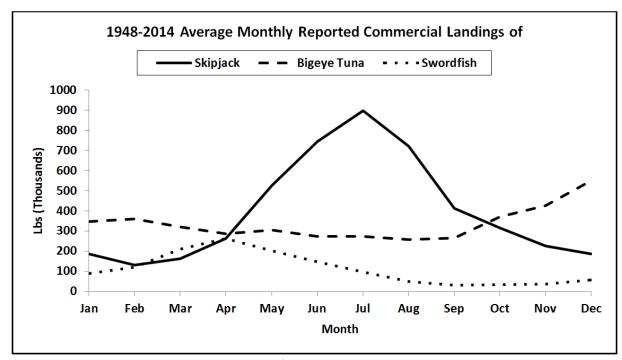


Figure D-2-2

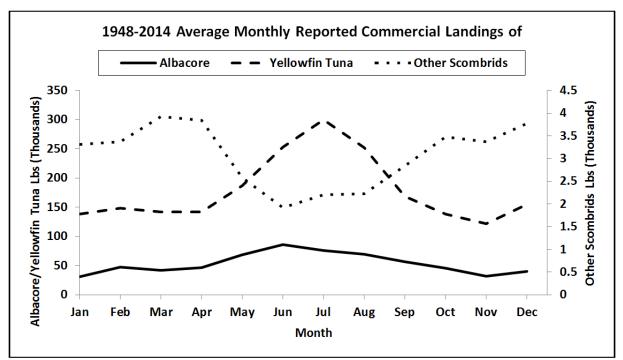


Figure D-2-3

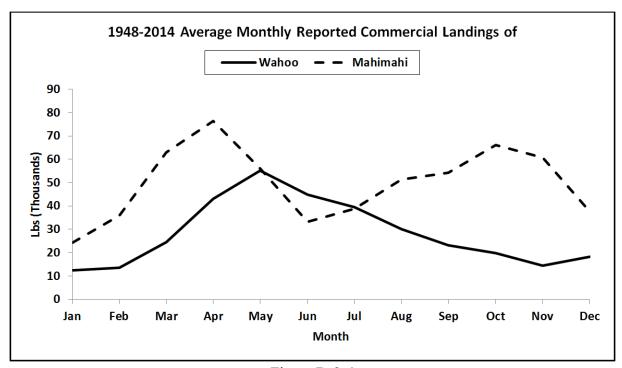


Figure D-2-4

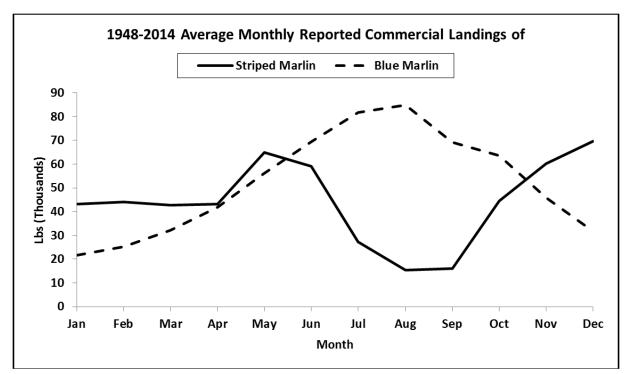


Figure D-2-5

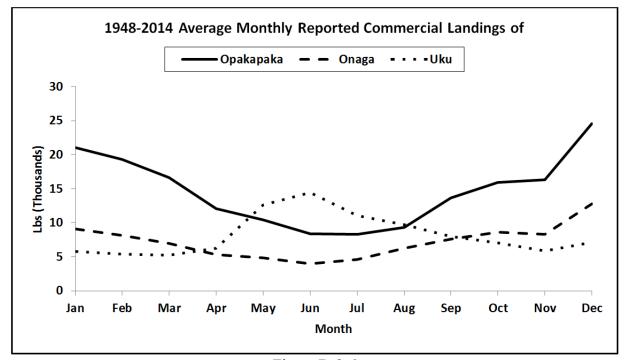


Figure D-2-6

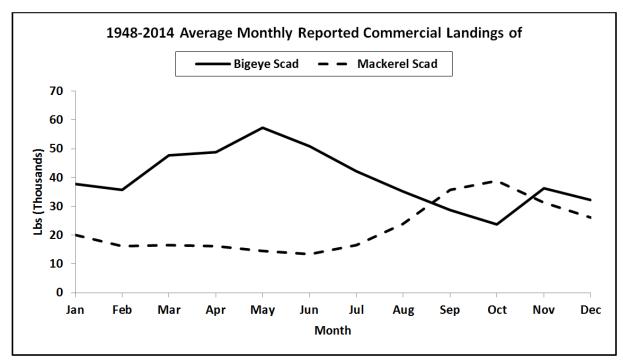


Figure D-2-7

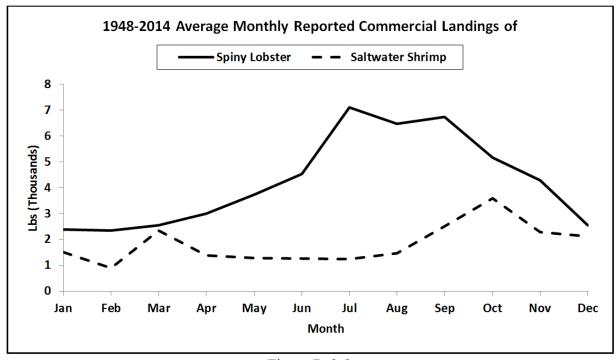


Figure D-2-8

The following graphs plot annual summary statistics to illustrate the variability among years:

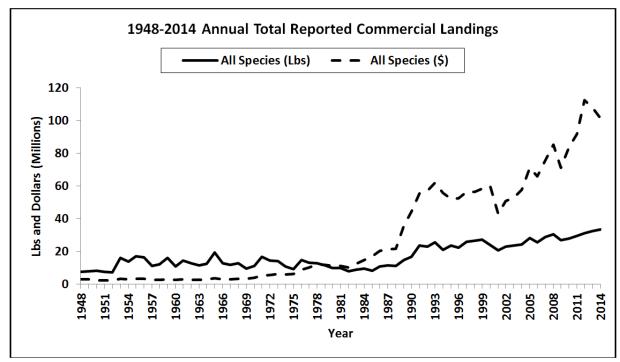


Figure D-3-1

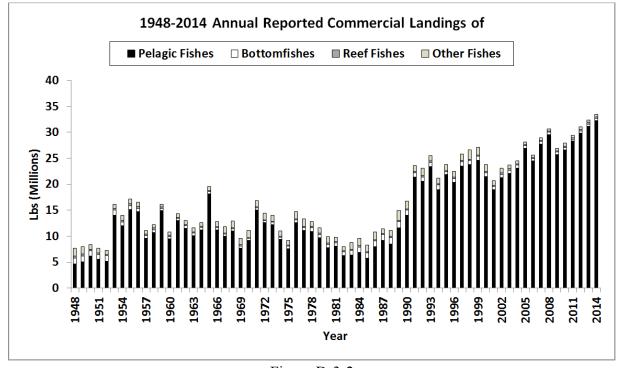


Figure D-3-2

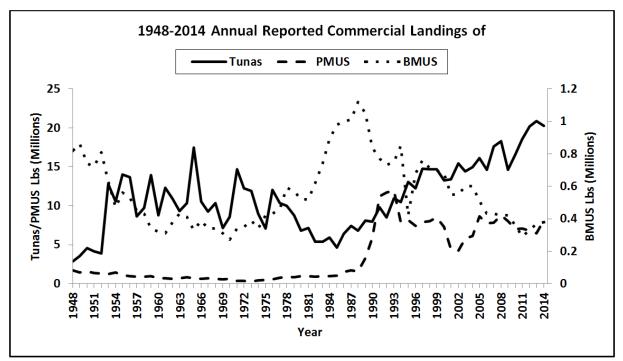


Figure D-3-3

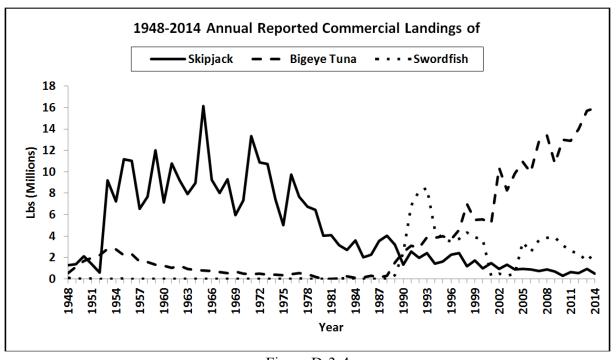


Figure D-3-4

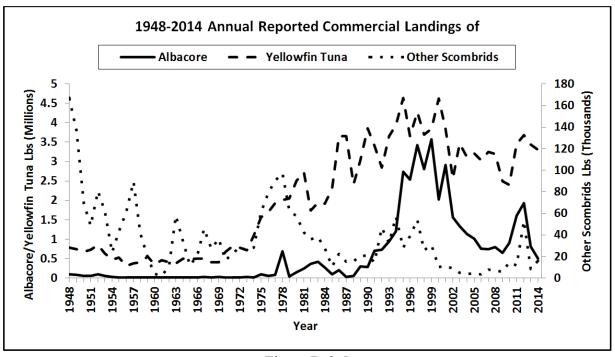


Figure D-3-5

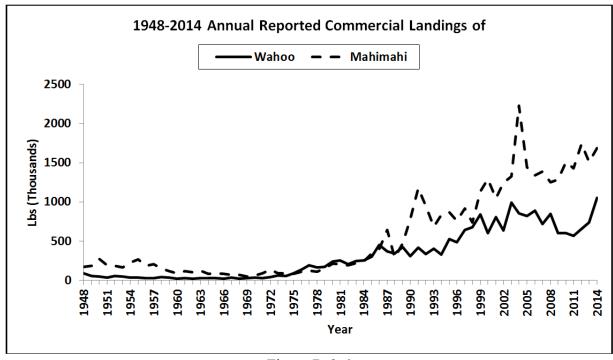


Figure D-3-6

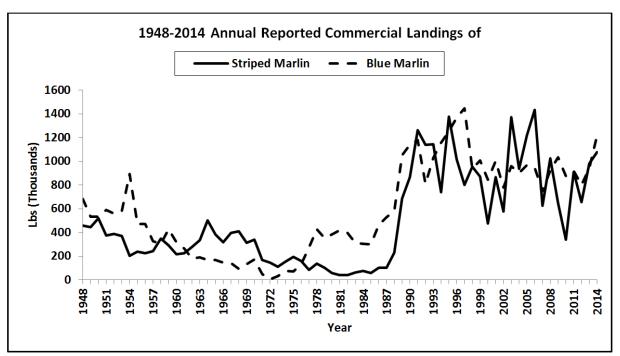


Figure D-3-7

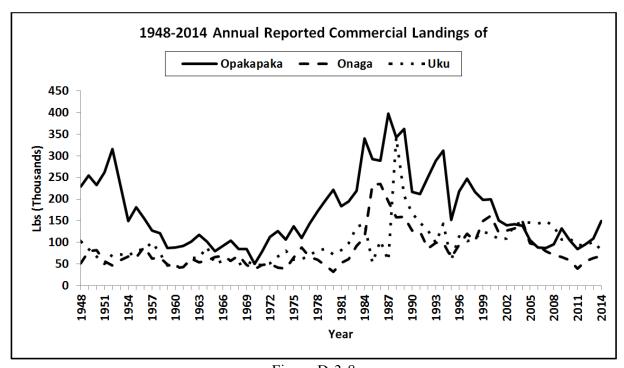


Figure D-3-8

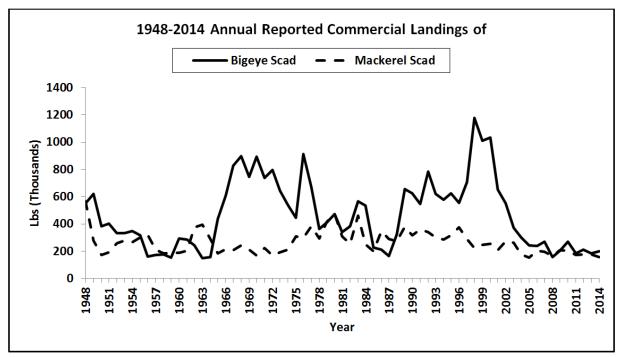


Figure D-3-9

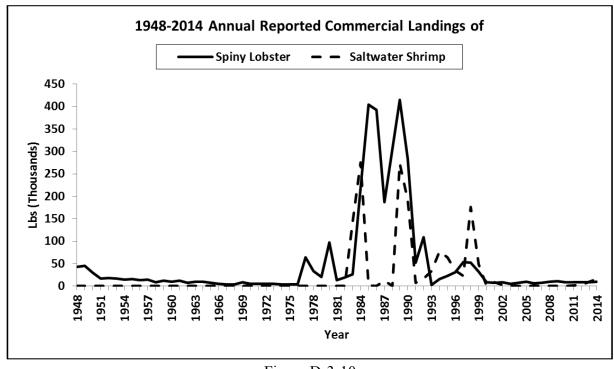


Figure D-3-10

The following graphs plot monthly landings of some commercially important species and document monthly fluctuations over the time series:

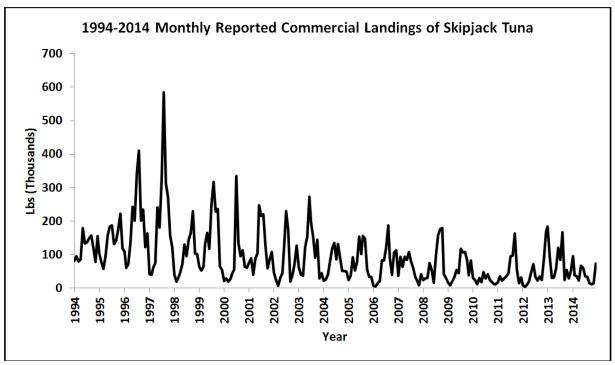


Figure D-4-1

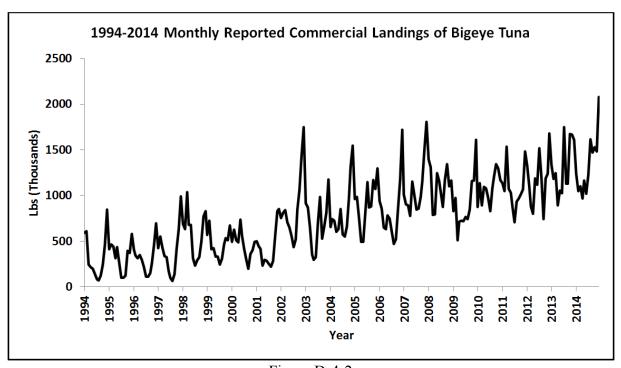


Figure D-4-2

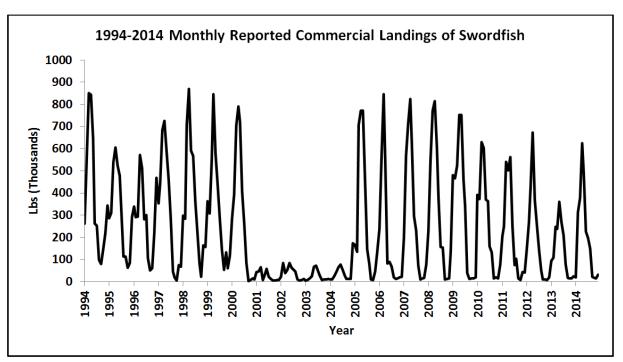


Figure D-4-3

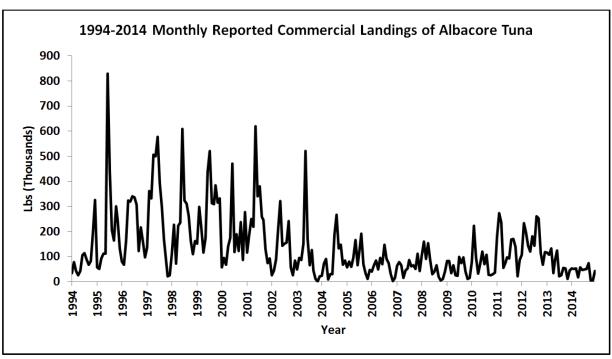


Figure D-4-4

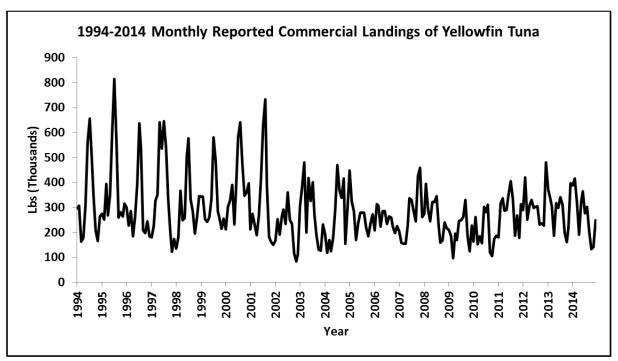


Figure D-4-5

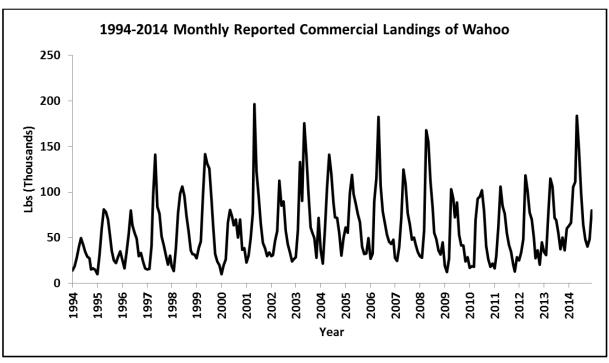


Figure D-4-6

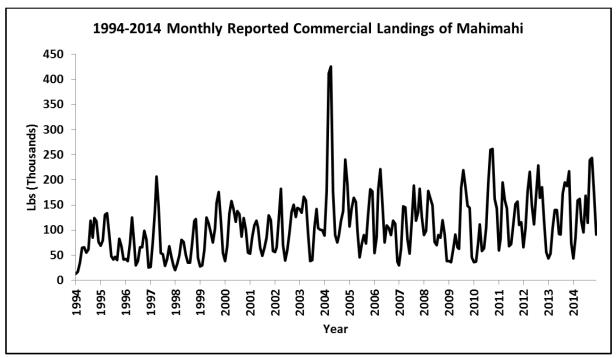


Figure D-4-7

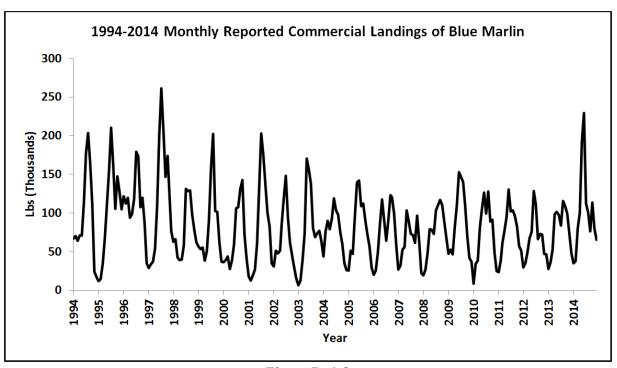


Figure D-4-8

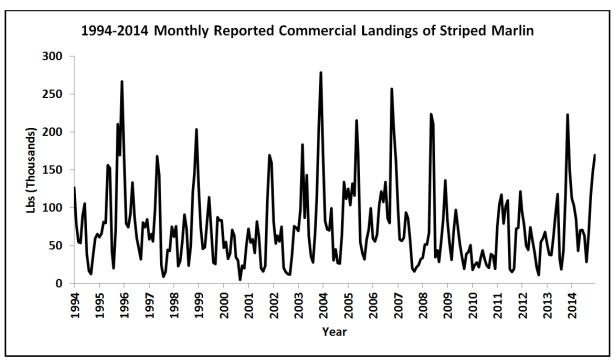


Figure D-4-9

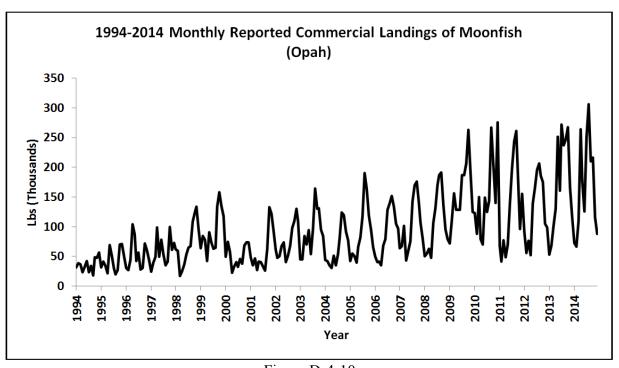


Figure D-4-10

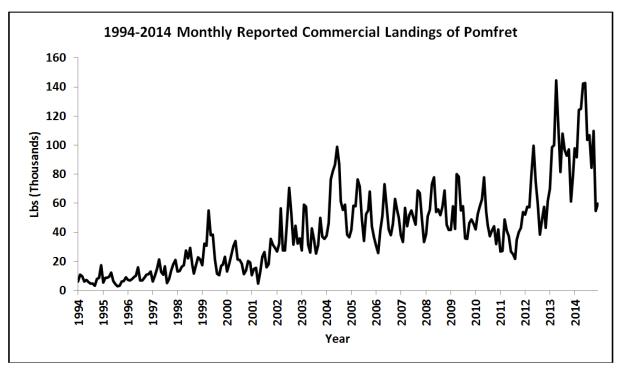


Figure D-4-11

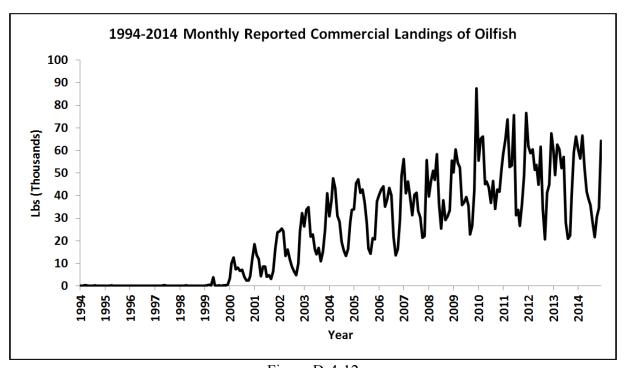


Figure D-4-12

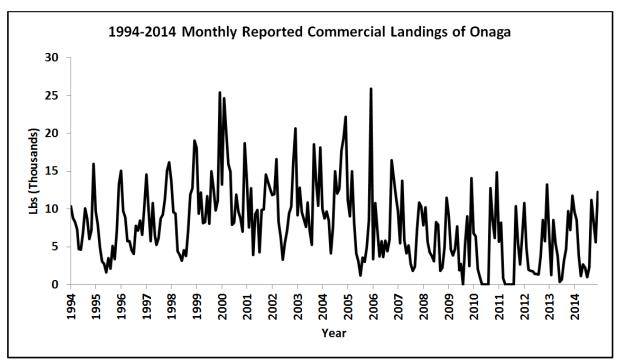
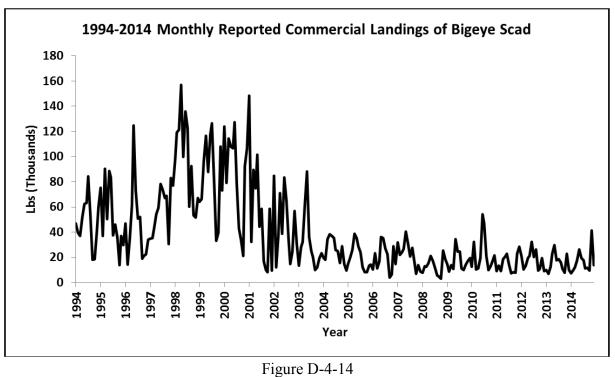


Figure D-4-13



(This page is intentionally left blank.)