

## **STATE OF HAWAII 2010 FISHERY STATISTICS**

Compiled by  
State of Hawaii  
Division of Aquatic Resources  
and the  
Western Pacific Fishery Information Network

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# STATE OF HAWAII 2010 FISHERY STATISTICS

## INTRODUCTION

The Hawaiian Archipelago stretches northwestward over 1500 miles.

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

*Islands:* Hawaii, Maui, Lanai, Molokai, Oahu, Kauai, Kahoolawe, and Niihau (comprise over 99% of the total land area)

*Population:* 1,360,301 (*The State of Hawaii Data Book, 2010*)

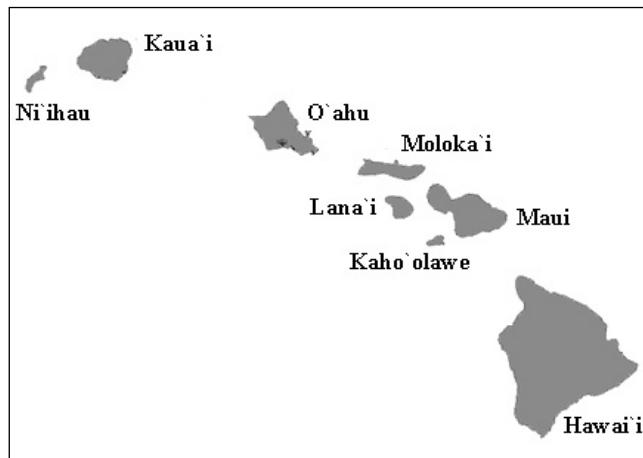
*Commercial Catch Breakdown (lbs):*

about 87% on Oahu, 2% on Hawaii (Big Island), and 11% on other islands or unknown

The commercial fisheries of the State of Hawaii are quite diverse; they vary from shore-based algae (limu) harvesting by hand to large vessel-based fisheries such as the offshore pelagic longline fishery that operates on the high seas. There are several major fisheries in Hawaii. Tuna fishing using various methods, deepwater hook-and-line bottomfishing for groupers and snappers, various forms of net fishing that target nearshore pelagic and reef fish species, and trolling for such pelagic species as tuna, marlin, wahoo (ono), and mahimahi constitute the top producing fisheries.

Commercial fishing (i.e., selling catches or providing charter fishing services) in Hawaii requires purchasing an annually renewable commercial marine license (CML). In 2010 there were 4299 licensed commercial fishers. The summary catch data for 2010 were created from a combination of Hawaii Division of Aquatic Resources' (HDAR) fishers and dealer reports processed through the Dealer Reporting System and Fisherman Reporting System, as well as additional fishery reports (including federal longline logbooks).

In 2010 the main Hawaiian Islands (MHI) deepwater bottomfish fishery was managed through the implementation of a total allowable catch (TAC) of 254,050 pounds. The implementation of the TAC was a federally mandated management measure to end overfishing of specific deepwater bottomfish species within the MHI. The managed species are known as the “deep 7” and are made up of onaga, opakapaka, kalekale, hapupuu, ehu, gindai, and lehi. The fishing season opened on September 1, 2010 and was closed March 12, 2011. For more



Hawaiian Islands: copied and modified from:  
[http://satftp.soest.hawaii.edu/space/hawaii/maps/All\\_Islands\\_map.710x509.gif](http://satftp.soest.hawaii.edu/space/hawaii/maps/All_Islands_map.710x509.gif)  
SOEST Satlab Server

information about this fishery, please visit <http://www.hawaiibottomfish.info>. None of the other MHI commercial fisheries are constrained by TAC management measures.

## **DATA COLLECTING**

Previously, 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, HDAR implemented several new FRS forms that no longer required sales information reporting as a trade-off for requiring improved catch, effort, and bycatch statistics. The FRS was modified to accommodate these new forms.

The Dealer Reporting System (DRS) was computerized in 2000 and is now a major source of sales data used to create the tables and charts. Data from the NOAA Fisheries Longline Logbook Program are integrated with DRS and FRS data to create the “best available” summaries presented in this report.

Dealers are required by state law to submit a Commercial Marine Dealer's Report for each month that they are in the business of purchasing marine life. Information collected includes

- Dealer Name
- Dealer Number
- Month and Year
- Date
- First and Last Name from Whom Fish was Bought
- Fisherman's Commercial Marine License Number
- Species Bought
- Pounds Bought
- Pieces Bought
- Amount Paid
- Condition

Likewise, all holders of a Commercial Marine License are required by state law to report on their fishing activity. The majority of commercial fishers use the Monthly Fishing Report, a replacement for the old General Fish Catch Report (C-3 Form). This form collects data on fishing catch and effort for each day, method, and area fished, and it is processed in the FRS. Information collected includes

- Fisherman's Name and Commercial License Number
- Boat's Name and Registration/USCG Number
- Month and Year Fished
- Day Fished
- Charter Trip (y/n)
- Buoy or Area Fished
- Fishing Method
- Hours Fished per Method/Area
- Number of Net Sets
- Number of Fishing Lines, Traps, or Net Length
- Port of Landing
- Species Name
- Number Landed
- Pounds Landed
- 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, and NWHI Bottomfish Trip Daily Log. Commercial collectors of tropical marine fish are required to have an aquarium permit in addition to their commercial marine license, and they are required to report monthly on the C-6 Aquarium Fish Catch Report. Aquarium fish catches, however, are not included in this report's statistics.

This report assumes that the data submitted by fishers are complete and accurate. The HDAR continually attempts to improve the quality of data and decrease the time delays in receiving and processing the data.

## **DATA PROCESSING**

When HDAR receives various data reporting forms, staff code and edit the data before keypunching. Forms that fail initial editing are returned for correction and resubmission, or minor problems may be cleared up over the telephone. Delinquency notices are sent to those who fall more than a few months behind in their reporting. Once the data are keypunched, HDAR staff use computer-generated reports to verify and correct errors in the database. When the database is considered to be reasonably complete and error free, it is ready for use in producing various summary catch reports.

## **DATA REPORTING**

More than 150 marine species and species groups are recorded in HDAR's monthly landings reports, many of which are insignificant in the total catch. To help reduce this document's size and improve the usability of the tables, WPacFIN staff combined some of the less important species, reorganized the order of presentation, created a new species coding system, and translated all records in the database. The new coding system has 100 species and species groups based on flexible ecological and phylogenetic criteria. All of the commercially important pelagic and bottomfish species or unique species groups have individual codes and are reported separately.

The monthly and annual reports included in this document contain the common name, pounds caught, pounds sold, value rounded to the nearest dollar, and the average price per pound for each species. Pounds caught data is from the Longline Logbooks, Dealer Reports, and Fisherman Catch Reports; the pounds sold, value and price/pound data is from Dealer Reports. 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 modified from earlier volumes. To access the most up-to-date data and charts, please visit the WPacFIN website, <http://www.pifsc.noaa.gov/wpacfin>.

## SPECIES CATEGORIES

The species and species groups used in the tables and graphs are defined in this section. 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, this report maintains the original species categorizations from previous FSWP reports for comparative purposes. As such, tunas are kept in a separate category.

### I. Pelagic Management Unit Species (PMUS)

Billfishes (unknown)	Sharks
Black marlin	Shortnose spearfish
Blue marlin	Striped marlin
Mahimahi	Swordfish
Sailfish	Wahoo

### II. Bottomfish Management Unit Species (BMUS)

Armorhead	Lehi (silverjaw)
Butaguchi (pig-lipped ulua)	Onaga (red snapper)
Ehu (red snapper)	Opakapaka (pink snapper)
Gindai (flower snapper)	Taape (blue lined snapper)
Gunkin (black) ulua	Uku (gray snapper)
Hapuupuu (hawaiian grouper)	White ulua
Kahala (amberjack)	Yellow-tail kali
Kalekale	

### III. Billfishes

Billfishes (unknown)	Shortnose spearfish
Black marlin	Striped marlin
Blue marlin	Swordfish
Sailfish	

### IV. Tunas

Albacore tuna	Skipjack tuna
Bigeye tuna	Tunas (unknown)
Kawakawa	Yellowfin tuna

### IV. Other Tunas

Kawakawa	Tunas (unknown)
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## VI. Fisheries Categories

### A. Pelagic Fishes

Albacore tuna	Pomfret
Barracudas	Rainbow runner
Bigeye tuna	Rays
Billfishes (unknown)	Sailfish
Black marlin	Sharks
Blue marlin	Shortnose spearfish
Japanese mackerel	Skipjack tuna
Kawakawa	Striped marlin
Mahimahi	Swordfish
Moonfish (opah)	Tunas (unknown)
Oilfish	Wahoo
Pelagic fishes (unknown)	Yellowfin tuna

### B. Bottomfishes

Armorhead	Lehi (silverjaw)
Blue spot grouper	Onaga (red snapper)
Blue trevally	Opakapaka (pink snapper)
Butaguchi (pig-lipped ulua)	Papa ulua
Dobe ulua	Porgy
Ehu (red snapper)	Sasa ulua
Gindai (flower snapper)	Snake mackerel
Golden kalekale	Snappers
Gunkin (black) ulua	Taape (blue lined snapper)
Hapuupuu (hawaiian grouper)	Uku (gray snapper)
Jacks	White ulua
Kahala (amberjack)	Yellow-tail kali
Kalekale	

### C. Reef Fishes

Bigeyes	Reef fishes (unknown)
Damselfishes	Reef jacks
Filefishes	Rudderfish
Flounders	Scorpionfishes
Goatfishes	Squirrelfishes
Gobies	Surgeonfishes/tangs
Hawkfish	Tilapia
Mountain bass	Trumpetfish
Parrotfishes	Wrasses
Pufferfishes	

*D. Other Fishes*

Algae	Miscellaneous
Bigeye scad (akule)	Mullets
Bonefish	Needlefishes
Clams	Octopus
Crabs	Sea turtles
Eels	Shrimp (freshwater)
Flying fishes	Shrimp (saltwater)
Freshwater fishes	Silversides
Herrings/sardines	Slipper lobsters
Invertebrates	Spiny lobsters
Leatherjacket	Squid
Limpets (saltwater)	Ten pounder
Mackerel scad	Threadfin
Milkfish	

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**Table D-1**  
**Hawaii Annual 2010 Reported Commercial Landings**

<b>Species</b>	<b>Caught</b>	<b>Sold</b>	<b>Value (\$)</b>	<b>Price/Lb (\$)</b>
Miscellaneous	5,740	3,961	8,401	2.12
Sharks	300,256	223,621	112,291	0.50
Rays	50	0	0	0.00
Eels	2,116	720	890	1.24
Bigeye scad (akule)	557,182	269,666	756,339	2.80
Mackerel scad	297,801	201,942	529,425	2.62
Leatherjacket	278	256	509	1.99
Ten pounder	1,204	1,127	1,174	1.04
Bonefish	12,255	11,209	11,505	1.03
Herrings/sardines	486	486	972	2.00
Milkfish	2,031	1,825	2,372	1.30
Flying fishes	1	0	0	0.00
Needlefishes	594	385	634	1.65
Threadfin	630	507	3,386	6.68
Mullets	8,282	7,779	32,870	4.23
Pomfret	593,728	589,243	1,537,461	2.61
Oilfish	575,525	575,525	775,898	1.35
Jacks	2,805	1,224	3,035	2.48
Kahala (amberjack)	18,485	1,598	2,727	1.71
Sasa ulua	724	503	1,299	2.58
Butaguchi (pig-lipped ulua)	810	486	1,493	3.07
Dobe ulua	2,979	2,629	4,970	1.89
Papa ulua	7,572	6,674	23,559	3.53
White ulua	18,642	11,767	26,186	2.23
Gunkin (black) ulua	3,349	127	239	1.89
Blue trevally	9,049	3,809	8,657	2.27
Hapupuu (hawaiian grouper)	8,108	6,521	34,690	5.32
Blue spot grouper	5,257	3,165	9,868	3.12
Kalekale	9,027	6,103	21,751	3.56
Snappers	7,237	5,120	19,040	3.72
Yellow-tail kali	27	24	55	2.27
Taape (blue lined snapper)	43,221	27,624	43,785	1.59
Ehu (red snapper)	27,407	19,438	109,201	5.62
Gindai (flower snapper)	3,120	1,919	8,765	4.57
Golden kalekale	257	40	152	3.82
Lehi (silverjaw)	12,215	9,258	38,068	4.11
Onaga (red snapper)	70,278	58,554	405,857	6.93
Opakapaka (pink snapper)	128,633	104,993	608,282	5.79
Uku (gray snapper)	124,140	109,162	428,179	3.92
Snake mackerel	14	0	0	0.00
Porgy	7,740	6,540	21,640	3.31
Reef fishes (unknown)	1,284	14	7	0.50
Reef jacks	32	14	61	4.28
Squirrelfishes	81,917	76,065	320,900	4.22
Trumpetfish	248	202	252	1.25
Scorpionfishes	3,634	1,951	9,501	4.87

**Table D-1 (continued)**  
**Hawaii Annual 2010 Reported Commercial Landings**

<b>Species</b>	<b>Caught</b>	<b>Sold</b>	<b>Value (\$)</b>	<b>Price/Lb (\$)</b>
Mountain bass	2,508	2,063	8,200	3.98
Bigeyes	4,403	4,380	15,134	3.45
Goatfishes	75,216	61,838	280,234	4.53
Rudderfish	31,483	27,576	35,179	1.28
Damselfishes	2,943	2,826	9,181	3.25
Hawkfish	1,252	1,194	4,543	3.81
Tilapia	7,177	112	309	2.76
Wrasses	7,940	5,212	24,513	4.70
Parrotfishes	71,853	63,047	216,051	3.43
Surgeonfishes/tangs	130,944	112,583	202,740	1.80
Flounders	43	37	63	1.67
Filefishes	366	312	450	1.44
Pufferfishes	4	0	0	0.00
Pelagic fishes (unknown)	11,873	130	13	0.10
Moonfish (opah)	1,840,889	1,814,520	2,570,599	1.42
Rainbow runner	4,175	2,332	4,485	1.92
Mahimahi	1,689,518	1,508,741	3,282,187	2.18
Barracudas	30,807	27,537	26,939	0.98
Wahoo	753,955	599,285	1,742,199	2.91
Japanese mackerel	9	0	0	0.00
Tunas (unknown)	28,651	12,038	37,792	3.14
Skipjack tuna	663,375	298,535	549,336	1.84
Yellowfin tuna	2,738,746	2,401,633	6,989,970	2.91
Albacore tuna	970,970	912,637	1,296,818	1.42
Bigeye tuna	13,213,523	12,978,104	50,465,986	3.89
Kawakawa	9,063	2,345	5,276	2.25
Billfishes (unknown)	2,729	952	887	0.93
Swordfish	3,775,169	3,149,139	7,288,753	2.31
Blue marlin	967,466	876,605	1,121,185	1.28
Black marlin	5,599	0	0	0.00
Striped marlin	385,999	339,235	627,498	1.85
Shortnose spearfish	282,206	270,745	369,158	1.36
Sailfish	34,672	32,276	40,947	1.27
Spiny lobsters	12,222	9,419	116,492	12.4
Slipper lobsters	124	21	196	9.23
Crabs	46,391	11,727	51,644	4.40
Shrimp (saltwater)	3,286	238	975	4.09
Octopus	34,174	22,936	91,338	3.98
Squid	6,534	5,978	13,106	2.19
Limpets (saltwater)	26,525	12,102	70,878	5.86
Invertebrates	581	374	2,763	7.39
Algae	12,534	5,053	47,629	9.43
<b>TOTAL</b>	<b>30,844,263</b>	<b>27,929,589</b>	<b>83,537,992</b>	<b>2.99</b>

**Table D-2**  
**Hawaii January 2010 Reported Commercial Landings**

<b>Species</b>	<b>Caught</b>	<b>Sold</b>	<b>Value (\$)</b>	<b>Price/Lb (\$)</b>
Miscellaneous	302	302	851	2.82
Sharks	24,602	21,578	8,217	0.38
Eels	60	35	35	1.00
Bigeye scad (akule)	15,897	12,421	40,871	3.29
Mackerel scad	24,944	19,719	43,600	2.21
Leatherjacket	12	12	22	1.81
Ten pounder	266	266	293	1.10
Bonefish	199	174	183	1.05
Milkfish	211	198	245	1.24
Needlefishes	78	56	95	1.70
Threadfin	43	26	189	7.30
Mullets	77	77	179	2.31
Pomfret	42,055	42,055	109,686	2.61
Oilfish	55,576	55,576	57,938	1.04
Jacks	283	37	64	1.74
Kahala (amberjack)	1,686	15	30	2.00
Sasa ulua	67	59	103	1.75
Butaguchi (pig-lipped ulua)	129	58	203	3.50
Dobe ulua	8	8	16	2.00
Papa ulua	482	163	571	3.50
White ulua	1,680	1,129	2,658	2.35
Gunkin (black) ulua	72	49	105	2.17
Blue trevally	943	431	947	2.20
Hapuupuu (hawaiian grouper)	994	782	3,919	5.01
Blue spot grouper	279	123	340	2.76
Kalekale	1,038	700	2,337	3.34
Snappers	187	137	432	3.17
Yellow-tail kali	9	9	22	2.51
Taape (blue lined snapper)	4,361	3,725	5,389	1.45
Ehu (red snapper)	4,342	3,347	16,900	5.05
Gindai (flower snapper)	362	299	1,355	4.54
Golden kalekale	20	2	4	2.00
Lehi (silverjaw)	1,711	1,378	5,748	4.17
Onaga (red snapper)	8,971	6,794	45,733	6.73
Opakapaka (pink snapper)	15,911	11,442	71,679	6.26
Uku (gray snapper)	14,010	14,010	34,753	2.48
Snake mackerel	14	0	0	0.00
Porgy	554	198	672	3.40
Reef fishes (unknown)	62	0	0	0.00
Squirrelfishes	6,216	5,612	23,170	4.13
Trumpetfish	23	9	10	1.09
Scorpionfishes	347	139	614	4.41
Mountain bass	184	117	487	4.15
Bigeyes	405	405	1,160	2.86
Goatfishes	5,988	5,065	20,172	3.98
Rudderfish	587	486	657	1.35

**Table D-2 (continued)**  
**Hawaii January 2010 Reported Commercial Landings**

Species	Caught	Sold	Value (\$)	Price/Lb (\$)
Damselfishes	403	403	1,470	3.64
Hawkfish	107	107	417	3.89
Tilapia	92	85	255	3.00
Wrasses	791	429	1,958	4.57
Parrotfishes	3,918	3,270	11,195	3.42
Surgeonfishes/tangs	9,568	9,352	17,937	1.92
Filefishes	7	4	6	1.75
Pelagic fishes (unknown)	529	0	0	0.00
Moonfish (opah)	129,022	123,564	218,984	1.77
Rainbow runner	351	156	245	1.57
Mahimahi	49,643	35,950	98,019	2.73
Barracudas	599	397	607	1.53
Wahoo	22,900	16,965	65,486	3.86
Tunas (unknown)	10,958	22	44	2.06
Skipjack tuna	91,767	30,518	31,020	1.02
Yellowfin tuna	185,368	163,228	476,518	2.92
Albacore tuna	107,914	77,940	105,151	1.35
Bigeye tuna	929,599	874,173	3,249,870	3.72
Kawakawa	820	245	592	2.41
Billfishes (unknown)	407	0	0	0.00
Swordfish	455,905	392,207	840,412	2.14
Blue marlin	18,827	8,846	20,368	2.30
Black marlin	98	0	0	0.00
Striped marlin	19,521	17,903	53,150	2.97
Shortnose spearfish	25,600	23,423	35,406	1.51
Sailfish	509	81	162	2.00
Spiny lobsters	1,095	752	7,116	9.47
Slipper lobsters	13	0	0	0.00
Crabs	4,728	2,077	7,374	3.55
Octopus	1,097	748	2,923	3.91
Squid	0	0	0	0.00
Limpets (saltwater)	2,378	772	4,626	5.99
Algae	1,039	670	6,696	10.0
<b>TOTAL</b>	<b>2,311,818</b>	<b>1,993,503</b>	<b>5,760,662</b>	<b>2.89</b>

**Table D-3**  
**Hawaii February 2010 Reported Commercial Landings**

<b>Species</b>	<b>Caught</b>	<b>Sold</b>	<b>Value (\$)</b>	<b>Price/Lb (\$)</b>
Miscellaneous	207	173	945	5.47
Sharks	27,648	23,760	14,705	0.62
Rays	32	0	0	0.00
Eels	152	47	47	1.00
Bigeye scad (akule)	72,191	32,202	90,046	2.80
Mackerel scad	28,399	21,587	58,240	2.70
Leatherjacket	11	5	11	2.21
Ten pounder	75	75	75	1.00
Bonefish	1,414	1,100	1,100	1.00
Herrings/sardines	486	486	972	2.00
Milkfish	45	39	51	1.30
Needlefishes	192	104	120	1.15
Threadfin	35	35	218	6.24
Mullets	71	71	152	2.14
Pomfret	52,386	52,386	152,617	2.91
Oilfish	65,155	65,155	68,762	1.06
Jacks	65	12	32	2.73
Kahala (amberjack)	1,346	50	64	1.27
Sasa ulua	85	85	252	2.96
Butaguchi (pig-lipped ulua)	10	10	38	4.00
Dobe ulua	2,339	2,339	4,391	1.88
Papa ulua	562	497	1,694	3.41
White ulua	1,506	702	1,787	2.55
Gunkin (black) ulua	2,665	0	0	0.00
Blue trevally	468	276	648	2.35
Hapuupuu (hawaiian grouper)	1,090	930	4,492	4.83
Blue spot grouper	336	115	430	3.74
Kalekale	685	531	1,968	3.71
Snappers	155	128	507	3.97
Yellow-tail kali	1	1	2	2.00
Taape (blue lined snapper)	2,006	1,552	2,439	1.57
Ehu (red snapper)	2,965	2,596	13,953	5.37
Gindai (flower snapper)	205	146	663	4.54
Golden kalekale	11	7	35	5.00
Lehi (silverjaw)	1,189	1,100	4,972	4.52
Onaga (red snapper)	6,957	6,367	47,473	7.46
Opakapaka (pink snapper)	13,375	10,834	68,871	6.36
Uku (gray snapper)	10,747	9,642	39,079	4.05
Porgy	852	789	3,039	3.85
Reef fishes (unknown)	107	0	0	0.00
Squirrelfishes	5,588	4,742	20,699	4.37
Trumpetfish	21	21	28	1.35
Scorpionfishes	360	150	945	6.29
Mountain bass	515	487	1,592	3.27
Bigeyes	312	312	1,108	3.56
Goatfishes	4,262	3,522	14,529	4.13

**Table D-3 (continued)**  
**Hawaii February 2010 Reported Commercial Landings**

<b>Species</b>	<b>Caught</b>	<b>Sold</b>	<b>Value (\$)</b>	<b>Price/Lb (\$)</b>
Rudderfish	840	673	969	1.44
Damselfishes	343	343	1,270	3.71
Hawkfish	145	145	583	4.03
Tilapia	945	0	0	0.00
Wrasses	496	369	2,033	5.52
Parrotfishes	4,049	4,049	14,961	3.70
Surgeonfishes/tangs	9,328	7,783	15,775	2.03
Filefishes	20	20	36	1.81
Pelagic fishes (unknown)	913	130	13	0.10
Moonfish (opah)	88,000	88,000	213,844	2.43
Rainbow runner	242	179	347	1.93
Mahimahi	47,627	37,214	107,090	2.88
Barracudas	732	732	1,094	1.49
Wahoo	21,376	18,690	69,488	3.72
Japanese mackerel	2	0	0	0.00
Tunas (unknown)	294	116	301	2.60
Skipjack tuna	72,855	24,226	37,060	1.53
Yellowfin tuna	284,692	261,242	686,173	2.63
Albacore tuna	221,692	221,692	171,878	0.78
Bigeye tuna	1,133,188	1,132,817	3,568,717	3.15
Kawakawa	771	322	655	2.04
Swordfish	510,759	372,993	840,437	2.25
Blue marlin	49,328	34,470	62,282	1.81
Black marlin	550	0	0	0.00
Striped marlin	26,766	24,197	59,789	2.47
Shortnose spearfish	18,998	16,028	31,392	1.96
Sailfish	556	116	144	1.24
Spiny lobsters	2,171	1,719	22,761	13.2
Slipper lobsters	7	0	0	0.00
Crabs	3,147	1,324	5,522	4.17
Octopus	1,834	1,474	5,538	3.76
Squid	33	33	50	1.50
Limpets (saltwater)	2,404	840	5,220	6.21
Invertebrates	45	45	358	8.00
Algae	558	558	4,858	8.71
<b>TOTAL</b>	<b>2,814,984</b>	<b>2,497,696</b>	<b>6,554,424</b>	<b>2.62</b>

**Table D-4**  
**Hawaii March 2010 Reported Commercial Landings**

<b>Species</b>	<b>Caught</b>	<b>Sold</b>	<b>Value (\$)</b>	<b>Price/Lb (\$)</b>
Miscellaneous	62	62	129	2.09
Sharks	35,311	26,118	12,288	0.47
Eels	187	9	9	1.00
Bigeye scad (akule)	12,889	10,448	34,159	3.27
Mackerel scad	26,988	19,949	55,691	2.79
Leatherjacket	10	10	19	1.91
Ten pounder	128	116	116	1.01
Bonefish	1,112	1,040	1,072	1.03
Milkfish	107	107	159	1.50
Needlefishes	68	41	82	2.00
Threadfin	27	27	191	7.20
Mullets	51	51	151	2.99
Pomfret	58,083	58,083	173,248	2.98
Oilfish	66,251	66,251	92,623	1.40
Jacks	77	25	86	3.51
Kahala (amberjack)	417	131	225	1.72
Sasa ulua	6	6	19	3.50
Butaguchi (pig-lipped ulua)	18	18	54	3.00
Dobe ulua	15	15	31	2.00
Papa ulua	668	494	1,867	3.78
White ulua	1,082	629	1,594	2.53
Gunkin (black) ulua	102	0	0	0.00
Blue trevally	770	68	182	2.69
Hapuupuu (hawaiian grouper)	127	100	613	6.13
Blue spot grouper	349	203	793	3.90
Kalekale	205	145	575	3.96
Snappers	119	81	316	3.90
Yellow-tail kali	1	1	5	4.00
Taape (blue lined snapper)	2,198	1,461	2,400	1.64
Ehu (red snapper)	1,719	1,491	10,466	7.02
Gindai (flower snapper)	91	61	345	5.70
Golden kalekale	6	6	23	3.97
Lehi (silverjaw)	127	113	496	4.40
Onaga (red snapper)	2,470	2,045	15,831	7.74
Opakapaka (pink snapper)	3,531	2,545	17,869	7.02
Uku (gray snapper)	3,854	3,199	13,935	4.36
Porgy	477	420	1,425	3.39
Reef fishes (unknown)	115	0	0	0.00
Squirrefishes	2,404	2,308	9,608	4.16
Trumpetfish	20	20	20	1.00
Scorpionfishes	125	60	350	5.86
Mountain bass	159	149	706	4.75
Bigeyes	190	190	679	3.56
Goatfishes	6,969	6,500	27,430	4.22
Rudderfish	511	416	574	1.38
Damselfishes	259	259	935	3.60

**Table D-4 (continued)**  
**Hawaii March 2010 Reported Commercial Landings**

<b>Species</b>	<b>Caught</b>	<b>Sold</b>	<b>Value (\$)</b>	<b>Price/Lb (\$)</b>
Hawkfish	107	107	413	3.87
Tilapia	1,462	27	54	2.00
Wrasses	427	232	1,090	4.69
Parrotfishes	3,231	2,930	10,055	3.43
Surgeonfishes/tangs	5,885	5,427	11,678	2.15
Filefishes	45	21	40	1.93
Moonfish (opah)	152,573	150,138	284,721	1.90
Rainbow runner	172	91	222	2.43
Mahimahi	87,343	76,432	252,656	3.31
Barracudas	617	617	1,068	1.73
Wahoo	22,339	17,951	77,366	4.31
Japanese mackerel	5	0	0	0.00
Tunas (unknown)	567	12	46	3.80
Skipjack tuna	29,772	11,728	24,477	2.09
Yellowfin tuna	165,931	153,444	485,555	3.16
Albacore tuna	103,476	97,472	143,925	1.48
Bigeye tuna	899,106	899,106	3,603,345	4.01
Kawakawa	261	75	187	2.49
Billfishes (unknown)	104	0	0	0.00
Swordfish	789,286	629,247	1,451,858	2.31
Blue marlin	51,944	38,660	69,351	1.79
Striped marlin	27,629	27,629	64,792	2.35
Shortnose spearfish	15,562	15,562	25,844	1.66
Sailfish	1,002	298	587	1.97
Spiny lobsters	782	445	4,984	11.2
Slipper lobsters	5	0	0	0.00
Crabs	2,965	685	3,488	5.09
Octopus	2,000	1,563	6,190	3.96
Limpets (saltwater)	1,799	922	4,895	5.31
Invertebrates	38	38	304	8.00
Algae	519	298	2,809	9.42
<b>TOTAL</b>	<b>2,597,404</b>	<b>2,336,622</b>	<b>7,011,385</b>	<b>3.00</b>

**Table D-5**  
**Hawaii April 2010 Reported Commercial Landings**

<b>Species</b>	<b>Caught</b>	<b>Sold</b>	<b>Value (\$)</b>	<b>Price/Lb (\$)</b>
Miscellaneous	221	221	342	1.54
Sharks	19,936	13,316	7,811	0.59
Eels	112	9	9	1.00
Bigeye scad (akule)	19,149	11,070	37,224	3.36
Mackerel scad	21,361	12,915	35,116	2.72
Leatherjacket	35	33	68	2.08
Ten pounder	73	70	70	1.00
Bonefish	2,728	2,421	2,447	1.01
Milkfish	43	27	40	1.49
Needlefishes	43	37	58	1.58
Threadfin	39	36	269	7.47
Mullets	1,248	1,073	4,770	4.45
Pomfret	63,485	62,754	156,135	2.49
Oilfish	44,994	44,994	72,947	1.62
Jacks	259	138	477	3.46
Kahala (amberjack)	408	165	330	2.00
Sasa ulua	94	20	61	3.09
Butaguchi (pig-lipped ulua)	3	0	0	0.00
Dobe ulua	169	169	279	1.65
Papa ulua	446	446	1,353	3.04
White ulua	1,002	812	1,838	2.26
Gunkin (black) ulua	25	0	0	0.00
Blue trevally	412	135	454	3.37
Hapuupuu (hawaiian grouper)	78	49	295	6.01
Blue spot grouper	417	316	1,309	4.15
Kalekale	200	110	405	3.68
Snappers	195	176	601	3.42
Taape (blue lined snapper)	2,762	2,485	3,994	1.61
Ehu (red snapper)	1,107	781	6,840	8.76
Gindai (flower snapper)	60	29	150	5.10
Lehi (silverjaw)	54	10	42	4.00
Onaga (red snapper)	1,418	1,012	7,936	7.84
Opakapaka (pink snapper)	1,836	1,267	7,914	6.25
Uku (gray snapper)	3,518	2,687	11,478	4.27
Porgy	877	708	2,525	3.57
Reef fishes (unknown)	84	0	0	0.00
Reef jacks	8	8	34	4.50
Squirrelfishes	3,258	3,258	13,352	4.10
Trumpetfish	7	7	11	1.70
Scorpionfishes	122	63	396	6.33
Mountain bass	226	92	445	4.86
Bigeyes	361	352	1,478	4.19
Goatfishes	7,371	6,395	26,793	4.19
Rudderfish	5,461	3,936	5,076	1.29
Damselfishes	180	180	554	3.08
Hawkfish	69	69	294	4.25

**Table D-5 (continued)**  
**Hawaii April 2010 Reported Commercial Landings**

<b>Species</b>	<b>Caught</b>	<b>Sold</b>	<b>Value (\$)</b>	<b>Price/Lb (\$)</b>
Tilapia	1,428	0	0	0.00
Wrasses	706	199	754	3.79
Parrotfishes	4,355	4,355	15,337	3.52
Surgeonfishes/tangs	7,304	6,708	12,874	1.92
Filefishes	77	77	119	1.54
Pelagic fishes (unknown)	673	0	0	0.00
Moonfish (opah)	84,401	79,052	151,236	1.91
Rainbow runner	168	24	48	2.00
Mahimahi	132,527	111,472	347,164	3.11
Barracudas	1,790	1,279	1,834	1.43
Wahoo	81,068	69,254	174,690	2.52
Japanese mackerel	2	0	0	0.00
Tunas (unknown)	1,753	168	364	2.17
Skipjack tuna	58,154	30,780	70,673	2.30
Yellowfin tuna	218,122	185,033	428,503	2.32
Albacore tuna	31,545	30,784	85,135	2.77
Bigeye tuna	1,120,795	1,092,461	3,805,963	3.48
Kawakawa	721	180	367	2.05
Billfishes (unknown)	221	0	0	0.00
Swordfish	603,507	603,507	1,087,492	1.80
Blue marlin	89,505	81,240	102,217	1.26
Black marlin	271	0	0	0.00
Striped marlin	23,341	21,379	47,948	2.24
Shortnose spearfish	15,536	14,593	26,759	1.83
Sailfish	1,612	1,612	1,800	1.12
Spiny lobsters	1,733	1,598	20,639	12.9
Slipper lobsters	10	0	0	0.00
Crabs	5,047	2,263	10,875	4.81
Shrimp (saltwater)	829	151	844	5.59
Octopus	2,172	1,496	5,775	3.86
Squid	353	298	743	2.50
Limpets (saltwater)	3,786	1,083	7,051	6.51
Invertebrates	63	63	501	8.00
Algae	1,179	403	4,035	10.0
<b>TOTAL</b>	<b>2,700,706</b>	<b>2,516,358</b>	<b>6,825,758</b>	<b>2.71</b>

**Table D-6**  
**Hawaii May 2010 Reported Commercial Landings**

<b>Species</b>	<b>Caught</b>	<b>Sold</b>	<b>Value (\$)</b>	<b>Price/Lb (\$)</b>
Miscellaneous	624	285	896	3.14
Sharks	20,851	12,669	8,015	0.63
Eels	299	89	104	1.17
Bigeye scad (akule)	48,644	19,546	65,812	3.37
Mackerel scad	22,643	14,728	38,818	2.64
Leatherjacket	26	26	51	1.94
Ten pounder	128	128	129	1.00
Bonefish	1,522	1,522	1,682	1.11
Milkfish	113	45	56	1.25
Needlefishes	9	3	8	2.50
Threadfin	117	113	578	5.09
Mullets	1,616	1,502	5,942	3.95
Pomfret	78,279	77,897	138,670	1.78
Oilfish	46,188	46,188	73,361	1.59
Jacks	701	99	193	1.94
Kahala (amberjack)	218	10	20	2.00
Sasa ulua	70	46	107	2.33
Dobe ulua	15	0	0	0.00
Papa ulua	702	702	2,305	3.28
White ulua	1,344	1,084	2,686	2.48
Gunkin (black) ulua	159	0	0	0.00
Blue trevally	968	379	715	1.89
Blue spot grouper	495	291	750	2.58
Snappers	308	299	1,175	3.94
Taape (blue lined snapper)	2,119	1,424	2,458	1.73
Uku (gray snapper)	16,428	13,516	57,196	4.23
Porgy	852	671	2,181	3.25
Reef fishes (unknown)	217	0	0	0.00
Squirlfishes	5,754	5,719	23,651	4.14
Trumpetfish	35	35	46	1.33
Scorpionfishes	255	154	517	3.36
Mountain bass	79	48	221	4.66
Bigeyes	369	369	1,021	2.77
Goatfishes	6,877	6,366	28,628	4.50
Rudderfish	6,587	6,567	8,190	1.25
Damselfishes	269	269	743	2.76
Hawkfish	140	140	591	4.23
Tilapia	1,575	0	0	0.00
Wrasses	730	522	2,463	4.72
Parrotfishes	7,063	6,261	21,574	3.45
Surgeonfishes/tangs	12,639	11,762	20,396	1.73
Filefishes	80	80	99	1.24
Moonfish (opah)	69,791	69,791	146,645	2.10
Rainbow runner	238	163	268	1.64
Mahimahi	76,321	57,927	188,707	3.26
Barracudas	2,509	2,082	2,989	1.44

**Table D-6 (continued)**  
**Hawaii May 2010 Reported Commercial Landings**

<b>Species</b>	<b>Caught</b>	<b>Sold</b>	<b>Value (\$)</b>	<b>Price/Lb (\$)</b>
Wahoo	127,095	92,901	222,093	2.39
Tunas (unknown)	954	492	1,988	4.04
Skipjack tuna	48,155	17,925	33,512	1.87
Yellowfin tuna	191,056	157,140	412,174	2.62
Albacore tuna	78,343	71,187	109,064	1.53
Bigeye tuna	1,091,963	1,079,397	3,525,140	3.27
Kawakawa	602	204	456	2.24
Billfishes (unknown)	90	0	0	0.00
Swordfish	392,632	370,686	929,022	2.51
Blue marlin	107,510	105,369	125,175	1.19
Black marlin	1,030	0	0	0.00
Striped marlin	43,663	32,550	54,960	1.69
Shortnose spearfish	19,570	17,416	22,256	1.28
Sailfish	1,465	1,465	1,689	1.15
Crabs	3,612	343	2,076	6.06
Shrimp (saltwater)	917	87	131	1.50
Octopus	1,534	914	3,810	4.17
Squid	678	668	1,602	2.40
Limpets (saltwater)	2,754	1,040	5,824	5.60
Invertebrates	43	43	299	7.00
Algae	887	408	4,778	11.7
<b>TOTAL</b>	<b>2,551,518</b>	<b>2,311,751</b>	<b>6,306,702</b>	<b>2.73</b>

**Table D-7**  
**Hawaii June 2010 Reported Commercial Landings**

<b>Species</b>	<b>Caught</b>	<b>Sold</b>	<b>Value (\$)</b>	<b>Price/Lb (\$)</b>
Miscellaneous	350	350	1,083	3.09
Sharks	22,504	18,378	10,517	0.57
Eels	197	59	59	1.00
Bigeye scad (akule)	105,269	54,054	133,869	2.48
Mackerel scad	15,274	7,236	20,104	2.78
Leatherjacket	53	45	90	1.99
Ten pounder	267	247	251	1.02
Bonefish	481	340	340	1.00
Milkfish	177	177	215	1.22
Needlefishes	2	2	3	2.00
Threadfin	1	1	4	5.00
Mullets	835	730	2,869	3.93
Pomfret	54,196	54,196	133,443	2.46
Oilfish	43,662	43,662	77,458	1.77
Jacks	455	153	343	2.25
Kahala (amberjack)	314	60	30	0.50
Sasa ulua	54	41	106	2.61
Dobe ulua	23	23	45	2.00
Papa ulua	744	711	2,810	3.95
White ulua	1,215	892	1,636	1.83
Gunkin (black) ulua	175	0	0	0.00
Blue trevally	771	472	752	1.59
Blue spot grouper	452	246	748	3.04
Snappers	906	906	3,567	3.94
Taape (blue lined snapper)	1,998	1,743	3,017	1.73
Uku (gray snapper)	13,622	12,052	48,722	4.04
Porgy	545	501	1,495	2.99
Reef fishes (unknown)	276	0	0	0.00
Reef jacks	17	0	0	0.00
Squirrelfishes	4,910	4,659	19,107	4.10
Trumpetfish	25	25	35	1.40
Scorpionfishes	154	75	258	3.43
Mountain bass	87	87	369	4.26
Bigeyes	207	207	706	3.41
Goatfishes	4,175	3,830	19,301	5.04
Rudderfish	2,297	2,023	2,246	1.11
Damselfishes	279	267	864	3.24
Hawkfish	102	102	361	3.53
Tilapia	1,675	0	0	0.00
Wrasses	833	562	2,789	4.96
Parrotfishes	7,048	6,084	21,132	3.47
Surgeonfishes/tangs	12,356	11,047	19,086	1.73
Flounders	5	5	8	1.52
Filefishes	51	49	71	1.45
Moonfish (opah)	149,133	149,133	218,237	1.46
Rainbow runner	292	209	377	1.80

**Table D-7 (continued)**  
**Hawaii June 2010 Reported Commercial Landings**

<b>Species</b>	<b>Caught</b>	<b>Sold</b>	<b>Value (\$)</b>	<b>Price/Lb (\$)</b>
Mahimahi	71,515	63,988	171,320	2.68
Barracudas	6,844	6,844	4,628	0.68
Wahoo	121,503	95,064	243,838	2.57
Tunas (unknown)	2,828	45	100	2.24
Skipjack tuna	100,775	48,324	90,090	1.86
Yellowfin tuna	344,404	302,826	740,235	2.44
Albacore tuna	119,186	119,186	138,695	1.16
Bigeye tuna	975,676	975,676	3,309,571	3.39
Kawakawa	739	62	150	2.41
Swordfish	362,267	362,267	1,073,125	2.96
Blue marlin	126,773	126,773	134,102	1.06
Black marlin	1,515	0	0	0.00
Striped marlin	52,104	43,615	55,304	1.27
Shortnose spearfish	26,333	26,333	25,753	0.98
Sailfish	1,165	965	854	0.88
Crabs	2,703	152	765	5.02
Octopus	1,365	413	1,790	4.34
Squid	170	170	419	2.47
Limpets (saltwater)	2,220	320	1,879	5.87
Invertebrates	169	77	537	7.00
Algae	1,766	696	5,805	8.35
<b>TOTAL</b>	<b>2,770,481</b>	<b>2,549,431</b>	<b>6,747,477</b>	<b>2.65</b>

**Table D-8**  
**Hawaii July 2010 Reported Commercial Landings**

<b>Species</b>	<b>Caught</b>	<b>Sold</b>	<b>Value (\$)</b>	<b>Price/Lb (\$)</b>
Miscellaneous	936	515	692	1.34
Sharks	15,463	14,150	10,373	0.73
Eels	395	86	86	1.00
Bigeye scad (akule)	79,184	46,922	117,418	2.50
Mackerel scad	17,117	11,910	32,029	2.69
Leatherjacket	10	7	16	2.29
Ten pounder	37	7	7	1.05
Bonefish	2,405	2,226	2,149	0.97
Milkfish	52	28	37	1.34
Flying fishes	1	0	0	0.00
Needlefishes	23	23	44	1.94
Mullets	91	20	56	2.88
Pomfret	45,947	45,021	135,797	3.02
Oilfish	36,800	36,800	58,388	1.59
Jacks	337	337	764	2.27
Kahala (amberjack)	232	27	42	1.55
Sasa ulua	69	38	95	2.50
Dobe ulua	8	8	16	2.00
Papa ulua	668	661	2,554	3.87
White ulua	2,961	1,395	3,213	2.30
Gunkin (black) ulua	59	45	90	2.00
Blue trevally	764	363	1,007	2.77
Blue spot grouper	476	265	821	3.10
Snappers	1,709	1,709	5,921	3.46
Taape (blue lined snapper)	4,436	2,627	4,323	1.65
Uku (gray snapper)	12,379	11,427	52,814	4.62
Porgy	784	758	2,346	3.09
Reef fishes (unknown)	130	9	5	0.50
Squirrelfishes	8,958	8,958	38,533	4.30
Trumpetfish	14	5	7	1.31
Scorpionfishes	187	151	505	3.35
Mountain bass	77	52	235	4.50
Bigeyes	363	363	1,193	3.29
Goatfishes	5,152	4,178	20,497	4.91
Rudderfish	3,130	3,130	4,081	1.30
Damselfishes	301	256	752	2.94
Hawkfish	124	124	421	3.39
Wrasses	780	694	3,058	4.40
Parrotfishes	8,127	7,231	25,172	3.48
Surgeonfishes/tangs	11,699	10,411	17,756	1.71
Flounders	2	2	3	1.85
Filefishes	24	24	27	1.12
Moonfish (opah)	125,356	124,582	200,820	1.61
Rainbow runner	574	264	472	1.79
Mahimahi	127,922	105,260	265,017	2.52
Barracudas	3,705	3,705	3,345	0.90

**Table D-8 (continued)**  
**Hawaii July 2010 Reported Commercial Landings**

<b>Species</b>	<b>Caught</b>	<b>Sold</b>	<b>Value (\$)</b>	<b>Price/Lb (\$)</b>
Wahoo	130,738	101,893	262,045	2.57
Tunas (unknown)	145	32	69	2.14
Skipjack tuna	56,723	28,158	55,290	1.96
Yellowfin tuna	322,273	282,101	931,997	3.30
Albacore tuna	69,719	69,560	158,962	2.29
Bigeye tuna	845,602	828,390	3,851,509	4.65
Kawakawa	1,085	207	489	2.36
Swordfish	161,120	159,277	305,621	1.92
Blue marlin	115,516	99,693	124,269	1.25
Black marlin	500	0	0	0.00
Striped marlin	36,741	32,099	45,388	1.41
Shortnose spearfish	24,199	23,188	29,467	1.27
Sailfish	1,822	1,822	1,991	1.09
Crabs	2,865	193	943	4.89
Octopus	3,363	2,367	9,692	4.09
Squid	603	584	1,299	2.22
Limpets (saltwater)	2,771	1,504	8,818	5.86
Invertebrates	28	0	0	0.00
Algae	2,104	392	1,752	4.47
<b>TOTAL</b>	<b>2,297,880</b>	<b>2,078,232</b>	<b>6,802,596</b>	<b>3.27</b>

**Table D-9**  
**Hawaii August 2010 Reported Commercial Landings**

<b>Species</b>	<b>Caught</b>	<b>Sold</b>	<b>Value (\$)</b>	<b>Price/Lb (\$)</b>
Miscellaneous	600	185	510	2.75
Sharks	34,880	27,487	11,001	0.40
Eels	220	133	182	1.37
Bigeye scad (akule)	46,119	21,264	62,731	2.95
Mackerel scad	16,719	9,109	25,757	2.83
Leatherjacket	53	53	104	1.97
Ten pounder	75	67	67	1.00
Bonefish	525	525	525	1.00
Milkfish	131	53	56	1.07
Needlefishes	40	23	43	1.91
Threadfin	32	9	52	5.51
Mullets	425	386	1,686	4.37
Pomfret	38,438	37,215	132,497	3.56
Oilfish	46,483	46,483	75,562	1.63
Jacks	358	208	564	2.72
Kahala (amberjack)	138	42	48	1.14
Sasa ulua	79	63	205	3.25
Dobe ulua	56	56	164	2.94
Papa ulua	502	502	1,997	3.98
White ulua	1,557	1,051	2,326	2.21
Blue trevally	731	327	943	2.89
Blue spot grouper	512	417	1,179	2.83
Snappers	406	377	1,461	3.87
Yellow-tail kali	2	0	0	0.00
Taape (blue lined snapper)	2,281	1,908	3,385	1.77
Onaga (red snapper)	45	0	0	0.00
Uku (gray snapper)	10,188	9,042	41,694	4.61
Porgy	595	551	1,644	2.99
Reef fishes (unknown)	31	0	0	0.00
Reef jacks	5	5	18	4.00
Squirrelfishes	5,701	5,701	24,396	4.28
Trumpetfish	20	7	9	1.38
Scorpionfishes	139	119	422	3.55
Mountain bass	260	216	873	4.05
Bigeyes	268	254	1,041	4.10
Goatfishes	4,610	4,610	22,588	4.90
Rudderfish	4,742	4,337	5,525	1.27
Damselfishes	188	147	418	2.85
Hawkfish	156	156	603	3.87
Wrasses	459	301	871	2.89
Parrotfishes	7,232	6,626	23,055	3.48
Surgeonfishes/tangs	13,824	13,783	23,861	1.73
Flounders	5	5	5	1.00
Filefishes	10	9	8	0.95
Moonfish (opah)	156,560	144,207	239,075	1.66
Rainbow runner	407	307	611	1.99

**Table D-9 (continued)**  
**Hawaii August 2010 Reported Commercial Landings**

<b>Species</b>	<b>Caught</b>	<b>Sold</b>	<b>Value (\$)</b>	<b>Price/Lb (\$)</b>
Mahimahi	215,911	194,202	396,778	2.04
Barracudas	6,333	6,050	4,276	0.71
Wahoo	96,094	79,388	238,913	3.01
Tunas (unknown)	290	290	677	2.33
Skipjack tuna	67,625	41,598	86,796	2.09
Yellowfin tuna	345,834	311,177	941,678	3.03
Albacore tuna	106,234	106,234	152,458	1.44
Bigeye tuna	1,136,439	1,081,756	4,746,491	4.39
Kawakawa	963	426	809	1.90
Billfishes (unknown)	816	816	558	0.68
Swordfish	133,558	133,558	391,802	2.93
Blue marlin	139,859	127,881	146,383	1.14
Black marlin	197	0	0	0.00
Striped marlin	29,692	23,481	38,661	1.65
Shortnose spearfish	26,546	25,756	42,484	1.65
Sailfish	2,790	2,790	3,588	1.29
Crabs	1,574	302	1,772	5.88
Octopus	4,108	3,303	13,478	4.08
Squid	1,314	1,314	2,729	2.08
Limpets (saltwater)	2,055	1,432	8,239	5.75
Invertebrates	85	0	0	0.00
Algae	1,669	463	5,084	11.0
<b>TOTAL</b>	<b>2,716,785</b>	<b>2,480,535</b>	<b>7,933,412</b>	<b>3.20</b>

**Table D-10**  
**Hawaii September 2010 Reported Commercial Landings**

Species	Caught	Sold	Value (\$)	Price/Lb (\$)
Miscellaneous	436	311	536	1.72
Sharks	20,807	16,449	5,764	0.35
Eels	190	116	147	1.27
Bigeye scad (akule)	38,784	9,713	30,903	3.18
Mackerel scad	27,818	19,502	52,118	2.67
Leatherjacket	25	22	41	1.85
Ten pounder	61	61	61	1.00
Bonefish	245	245	251	1.02
Milkfish	211	211	313	1.48
Needlefishes	7	7	15	2.00
Threadfin	150	139	1,098	7.88
Mullets	666	666	2,904	4.36
Pomfret	41,221	41,221	94,764	2.30
Oilfish	34,057	34,057	44,837	1.32
Jacks	93	93	243	2.61
Kahala (amberjack)	1,886	93	126	1.36
Sasa ulua	37	25	63	2.50
Butaguchi (pig-lipped ulua)	26	26	62	2.40
Dobe ulua	121	2	4	2.00
Papa ulua	480	480	1,542	3.21
White ulua	1,730	1,042	2,303	2.21
Gunkin (black) ulua	4	0	0	0.00
Blue trevally	679	306	790	2.58
Hapuupuu (hawaiian grouper)	1,775	1,511	7,914	5.24
Blue spot grouper	540	176	545	3.09
Kalekale	1,429	899	3,209	3.57
Snappers	1,784	310	1,161	3.75
Yellow-tail kali	4	4	9	2.27
Taape (blue lined snapper)	4,909	3,269	5,000	1.53
Ehu (red snapper)	4,853	3,519	18,765	5.33
Gindai (flower snapper)	584	325	1,427	4.39
Golden kalekale	96	0	0	0.00
Lehi (silverjaw)	1,328	1,118	3,929	3.51
Onaga (red snapper)	16,031	12,759	78,407	6.15
Opakapaka (pink snapper)	21,277	16,379	90,398	5.52
Uku (gray snapper)	12,957	9,380	35,603	3.80
Porgy	665	509	1,811	3.56
Reef fishes (unknown)	80	5	3	0.50
Reef jacks	1	0	2	4.00
Squirrelfishes	8,586	8,433	35,864	4.25
Trumpetfish	36	36	37	1.01
Scorpionfishes	466	271	1,242	4.59
Mountain bass	349	349	1,331	3.82
Bigeyes	356	356	1,313	3.69
Goatfishes	8,783	6,346	29,299	4.62
Rudderfish	4,660	4,268	5,383	1.26

**Table D-10 (continued)**  
**Hawaii September 2010 Reported Commercial Landings**

<b>Species</b>	<b>Caught</b>	<b>Sold</b>	<b>Value (\$)</b>	<b>Price/Lb (\$)</b>
Damselfishes	118	118	313	2.66
Hawkfish	103	103	398	3.89
Wrasses	845	477	2,729	5.73
Parrotfishes	8,138	5,146	17,621	3.42
Surgeonfishes/tangs	12,095	10,116	16,736	1.65
Flounders	13	8	13	1.67
Filefishes	5	4	4	0.95
Moonfish (opah)	266,385	266,385	207,529	0.78
Rainbow runner	390	144	294	2.05
Mahimahi	273,722	259,886	370,600	1.43
Barracudas	2,548	2,350	2,513	1.07
Wahoo	50,866	40,721	142,083	3.49
Tunas (unknown)	116	116	343	2.95
Skipjack tuna	37,556	23,655	43,228	1.83
Yellowfin tuna	147,450	120,431	405,324	3.37
Albacore tuna	31,284	28,250	69,609	2.46
Bigeye tuna	1,202,117	1,202,117	5,030,634	4.18
Kawakawa	883	245	591	2.41
Billfishes (unknown)	11	11	17	1.50
Swordfish	14,446	14,172	45,680	3.22
Blue marlin	91,972	89,239	121,121	1.36
Black marlin	956	0	0	0.00
Striped marlin	27,648	20,798	35,058	1.69
Shortnose spearfish	24,441	24,441	25,317	1.04
Sailfish	5,365	5,365	7,775	1.45
Spiny lobsters	2,570	1,816	23,067	12.7
Slipper lobsters	45	0	0	0.00
Crabs	3,294	518	2,155	4.16
Shrimp (saltwater)	80	0	0	0.00
Octopus	3,728	2,322	9,199	3.96
Squid	2,691	2,551	5,259	2.06
Limpets (saltwater)	1,635	1,174	6,566	5.59
Invertebrates	2	0	0	0.00
Algae	1,095	140	1,000	7.14
<b>TOTAL</b>	<b>2,475,893</b>	<b>2,317,827</b>	<b>7,154,312</b>	<b>3.09</b>

**Table D-11**  
**Hawaii October 2010 Reported Commercial Landings**

<b>Species</b>	<b>Caught</b>	<b>Sold</b>	<b>Value (\$)</b>	<b>Price/Lb (\$)</b>
Miscellaneous	1,142	1,142	1,170	1.02
Sharks	24,322	11,056	7,587	0.69
Eels	123	39	70	1.78
Bigeye scad (akule)	22,867	13,119	36,896	2.81
Mackerel scad	30,471	21,160	55,710	2.63
Leatherjacket	8	8	14	1.89
Ten pounder	10	10	10	1.00
Bonefish	967	958	968	1.01
Milkfish	666	666	859	1.29
Needlefishes	34	34	55	1.62
Threadfin	73	55	326	5.90
Mullets	1,270	1,270	5,335	4.20
Pomfret	45,551	44,328	103,636	2.34
Oilfish	42,636	42,636	47,412	1.11
Jacks	9	5	10	2.30
Kahala (amberjack)	2,619	261	481	1.85
Sasa ulua	33	13	36	2.77
Butaguchi (pig-lipped ulua)	65	17	33	2.00
Dobe ulua	37	0	0	0.00
Papa ulua	429	429	1,171	2.73
White ulua	1,638	1,171	1,977	1.69
Gunkin (black) ulua	20	11	11	1.00
Blue trevally	840	326	674	2.07
Hapuupuu (hawaiian grouper)	1,086	864	5,374	6.22
Blue spot grouper	590	321	935	2.91
Kalekale	1,479	1,039	3,437	3.31
Snappers	374	316	1,142	3.62
Yellow-tail kali	8	8	14	1.75
Taape (blue lined snapper)	5,414	2,543	3,944	1.55
Ehu (red snapper)	2,641	2,171	10,290	4.74
Gindai (flower snapper)	598	400	1,760	4.40
Golden kalekale	21	4	7	2.00
Lehi (silverjaw)	828	751	2,684	3.57
Onaga (red snapper)	8,702	8,566	52,695	6.15
Opakapaka (pink snapper)	19,592	17,480	92,812	5.31
Uku (gray snapper)	7,677	7,677	27,381	3.57
Porgy	697	664	2,024	3.05
Reef fishes (unknown)	119	0	0	0.00
Reef jacks	1	1	3	4.28
Squirrelfishes	11,151	9,994	40,572	4.06
Trumpetfish	11	11	14	1.24
Scorpionfishes	383	224	1,189	5.30
Mountain bass	129	102	423	4.16
Bigeyes	617	617	1,910	3.09
Goatfishes	7,521	4,682	23,745	5.07
Rudderfish	858	831	1,168	1.41

**Table D-11 (continued)**  
**Hawaii October 2010 Reported Commercial Landings**

<b>Species</b>	<b>Caught</b>	<b>Sold</b>	<b>Value (\$)</b>	<b>Price/Lb (\$)</b>
Damselfishes	148	148	500	3.38
Hawkfish	124	86	278	3.23
Wrasses	716	544	2,661	4.89
Parrotfishes	8,438	7,210	24,194	3.36
Surgeonfishes/tangs	13,686	9,634	16,601	1.72
Flounders	12	12	24	1.97
Filefishes	17	17	22	1.32
Moonfish (opah)	203,358	203,358	206,817	1.02
Rainbow runner	407	207	473	2.28
Mahimahi	275,994	261,593	417,547	1.60
Barracudas	2,007	1,821	2,597	1.43
Wahoo	32,213	26,507	89,730	3.39
Tunas (unknown)	2,205	2,205	6,277	2.85
Skipjack tuna	37,679	18,414	33,308	1.81
Yellowfin tuna	123,090	105,005	296,704	2.83
Albacore tuna	27,132	24,636	49,935	2.03
Bigeye tuna	1,387,296	1,341,825	5,200,573	3.88
Kawakawa	427	164	399	2.44
Billfishes (unknown)	540	125	313	2.50
Swordfish	51,590	19,264	53,258	2.76
Blue marlin	92,234	90,912	96,956	1.07
Black marlin	384	0	0	0.00
Striped marlin	40,418	39,067	53,749	1.38
Shortnose spearfish	31,352	31,352	26,292	0.84
Sailfish	9,463	9,463	9,952	1.05
Spiny lobsters	1,532	1,077	13,355	12.4
Slipper lobsters	15	11	102	9.00
Crabs	4,333	1,278	5,033	3.94
Shrimp (saltwater)	810	0	0	0.00
Octopus	6,209	4,492	17,856	3.98
Squid	207	134	356	2.66
Limpets (saltwater)	1,775	1,663	9,801	5.90
Algae	765	303	2,428	8.03
<b>TOTAL</b>	<b>2,602,896</b>	<b>2,400,504</b>	<b>7,176,057</b>	<b>2.99</b>

**Table D-12**  
**Hawaii November 2010 Reported Commercial Landings**

<b>Species</b>	<b>Caught</b>	<b>Sold</b>	<b>Value (\$)</b>	<b>Price/Lb (\$)</b>
Miscellaneous	385	385	1,203	3.13
Sharks	30,856	21,369	7,947	0.37
Eels	117	34	40	1.18
Bigeye scad (akule)	70,180	17,479	49,258	2.82
Mackerel scad	34,167	24,153	61,494	2.55
Leatherjacket	19	19	39	2.09
Ten pounder	28	28	30	1.08
Bonefish	335	335	385	1.15
Milkfish	133	133	170	1.27
Needlefishes	77	55	108	1.98
Threadfin	76	48	365	7.56
Mullets	1,891	1,891	8,725	4.61
Pomfret	31,843	31,843	97,064	3.05
Oilfish	41,636	41,636	52,712	1.27
Jacks	101	101	213	2.11
Kahala (amberjack)	2,898	239	450	1.89
Sasa ulua	44	23	74	3.20
Butaguchi (pig-lipped ulua)	126	126	378	2.99
Dobe ulua	179	3	6	2.00
Papa ulua	1,200	900	3,437	3.82
White ulua	1,493	1,063	2,322	2.18
Gunkin (black) ulua	22	22	33	1.50
Blue trevally	771	293	640	2.19
Hapuupuu (hawaiian grouper)	1,237	1,073	4,854	4.53
Blue spot grouper	307	214	660	3.08
Kalekale	1,419	660	2,316	3.51
Snappers	379	251	924	3.69
Yellow-tail kali	2	1	3	2.50
Taape (blue lined snapper)	7,798	3,034	4,485	1.48
Ehu (red snapper)	3,149	1,836	9,196	5.01
Gindai (flower snapper)	498	280	1,212	4.32
Golden kalekale	12	4	11	3.13
Lehi (silverjaw)	3,666	2,031	8,707	4.29
Onaga (red snapper)	8,332	6,160	42,652	6.92
Opakapaka (pink snapper)	17,491	15,096	82,728	5.48
Uku (gray snapper)	8,037	7,361	30,004	4.08
Porgy	390	320	982	3.07
Reef fishes (unknown)	56	0	0	0.00
Reef jacks	1	1	4	3.96
Squirrelfishes	9,700	7,877	32,766	4.16
Trumpetfish	12	12	14	1.18
Scorpionfishes	488	189	1,057	5.59
Mountain bass	236	227	958	4.21
Bigeyes	365	365	1,291	3.54
Goatfishes	8,627	6,086	26,552	4.36
Rudderfish	308	308	470	1.52

**Table D-12 (continued)**  
**Hawaii November 2010 Reported Commercial Landings**

<b>Species</b>	<b>Caught</b>	<b>Sold</b>	<b>Value (\$)</b>	<b>Price/Lb (\$)</b>
Damselfishes	146	146	465	3.18
Hawkfish	42	21	56	2.69
Wrasses	595	475	2,470	5.20
Parrotfishes	5,353	4,985	16,434	3.30
Surgeonfishes/tangs	13,696	9,430	17,821	1.89
Filefishes	14	5	9	1.90
Pufferfishes	4	0	0	0.00
Pelagic fishes (unknown)	9,037	0	0	0.00
Moonfish (opah)	140,496	140,496	230,563	1.64
Rainbow runner	329	227	367	1.62
Mahimahi	175,700	161,898	425,047	2.63
Barracudas	2,119	1,356	1,469	1.08
Wahoo	21,012	18,393	72,773	3.96
Tunas (unknown)	6,854	6,854	22,726	3.32
Skipjack tuna	30,912	11,477	23,405	2.04
Yellowfin tuna	190,960	173,496	441,741	2.55
Albacore tuna	31,794	29,632	48,539	1.64
Bigeye tuna	1,320,741	1,299,383	4,817,706	3.71
Kawakawa	415	123	304	2.47
Billfishes (unknown)	540	0	0	0.00
Swordfish	15,306	15,049	56,744	3.77
Blue marlin	50,696	48,778	71,344	1.46
Striped marlin	38,836	36,878	65,489	1.78
Shortnose spearfish	25,679	24,690	36,923	1.50
Sailfish	7,711	7,711	11,372	1.47
Spiny lobsters	1,011	735	8,602	11.7
Slipper lobsters	24	10	94	9.50
Crabs	5,230	808	3,605	4.46
Octopus	4,500	2,317	9,100	3.93
Squid	351	91	366	4.04
Limpets (saltwater)	1,350	766	4,624	6.04
Invertebrates	109	109	764	7.00
Algae	335	216	2,442	11.3
<b>TOTAL</b>	<b>2,392,981</b>	<b>2,192,116</b>	<b>6,932,303</b>	<b>3.16</b>

**Table D-13**  
**Hawaii December 2010 Reported Commercial Landings**

<b>Species</b>	<b>Caught</b>	<b>Sold</b>	<b>Value (\$)</b>	<b>Price/Lb (\$)</b>
Miscellaneous	478	31	45	1.45
Sharks	23,077	17,293	8,066	0.47
Rays	18	0	0	0.00
Eels	65	65	103	1.60
Bigeye scad (akule)	26,010	21,428	57,153	2.67
Mackerel scad	31,900	19,974	50,748	2.54
Leatherjacket	18	18	35	2.00
Ten pounder	58	54	68	1.25
Bonefish	324	324	403	1.25
Milkfish	143	143	171	1.20
Needlefishes	23	2	4	2.00
Threadfin	38	17	96	5.57
Mullets	43	43	102	2.39
Pomfret	42,244	42,244	109,904	2.60
Oilfish	52,088	52,088	53,899	1.03
Jacks	67	18	45	2.51
Kahala (amberjack)	6,324	506	882	1.74
Sasa ulua	85	85	179	2.12
Butaguchi (pig-lipped ulua)	434	232	724	3.13
Dobe ulua	10	7	17	2.50
Papa ulua	689	689	2,258	3.28
White ulua	1,434	797	1,847	2.32
Gunkin (black) ulua	46	0	0	0.00
Blue trevally	931	435	906	2.08
Hapuupuu (hawaiian grouper)	1,721	1,213	7,229	5.96
Blue spot grouper	505	478	1,360	2.85
Kalekale	2,572	2,018	7,504	3.72
Snappers	715	433	1,833	4.23
Taape (blue lined snapper)	2,941	1,853	2,952	1.59
Ehu (red snapper)	6,631	3,698	22,790	6.16
Gindai (flower snapper)	722	379	1,853	4.89
Golden kalekale	90	18	72	4.00
Lehi (silverjaw)	3,312	2,757	11,490	4.17
Onaga (red snapper)	17,351	14,850	115,130	7.75
Opakapaka (pink snapper)	35,620	29,949	176,012	5.88
Uku (gray snapper)	10,725	9,170	35,519	3.87
Porgy	452	452	1,497	3.31
Reef fishes (unknown)	7	0	0	0.00
Squirrefishes	9,690	8,804	39,182	4.45
Trumpetfish	24	15	22	1.47
Scorpionfishes	608	357	2,006	5.62
Mountain bass	208	139	561	4.05
Bigeyes	591	591	2,233	3.78
Goatfishes	4,881	4,260	20,700	4.86
Rudderfish	1,502	601	840	1.40
Damselfishes	309	291	897	3.08

**Table D-13 (continued)**  
**Hawaii December 2010 Reported Commercial Landings**

<b>Species</b>	<b>Caught</b>	<b>Sold</b>	<b>Value (\$)</b>	<b>Price/Lb (\$)</b>
Hawkfish	35	35	130	3.72
Wrasses	561	408	1,637	4.01
Parrotfishes	4,900	4,900	15,322	3.13
Surgeonfishes/tangs	8,865	7,131	12,219	1.71
Flounders	5	5	9	1.73
Filefishes	17	4	9	2.13
Pelagic fishes (unknown)	721	0	0	0.00
Moonfish (opah)	275,814	275,814	252,128	0.91
Rainbow runner	606	360	762	2.12
Mahimahi	155,294	142,919	242,243	1.70
Barracudas	1,004	304	519	1.71
Wahoo	26,751	21,560	83,693	3.88
Tunas (unknown)	1,687	1,687	4,858	2.88
Skipjack tuna	31,405	11,732	20,477	1.75
Yellowfin tuna	219,567	186,512	743,367	3.99
Albacore tuna	42,651	36,064	63,468	1.76
Bigeye tuna	1,171,003	1,171,003	5,756,467	4.92
Kawakawa	1,378	93	277	2.99
Swordfish	284,794	76,912	213,303	2.77
Blue marlin	33,302	24,745	47,617	1.92
Black marlin	98	0	0	0.00
Striped marlin	19,640	19,640	53,210	2.71
Shortnose spearfish	28,391	27,964	41,265	1.48
Sailfish	1,214	589	1,034	1.76
Spiny lobsters	1,327	1,278	15,968	12.5
Slipper lobsters	6	0	0	0.00
Crabs	6,895	1,785	8,036	4.50
Shrimp (saltwater)	650	0	0	0.00
Octopus	2,264	1,528	5,986	3.92
Squid	135	135	284	2.10
Limpets (saltwater)	1,599	586	3,334	5.69
Algae	619	508	5,942	11.7
<b>TOTAL</b>	<b>2,610,919</b>	<b>2,255,015</b>	<b>8,332,904</b>	<b>3.70</b>

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

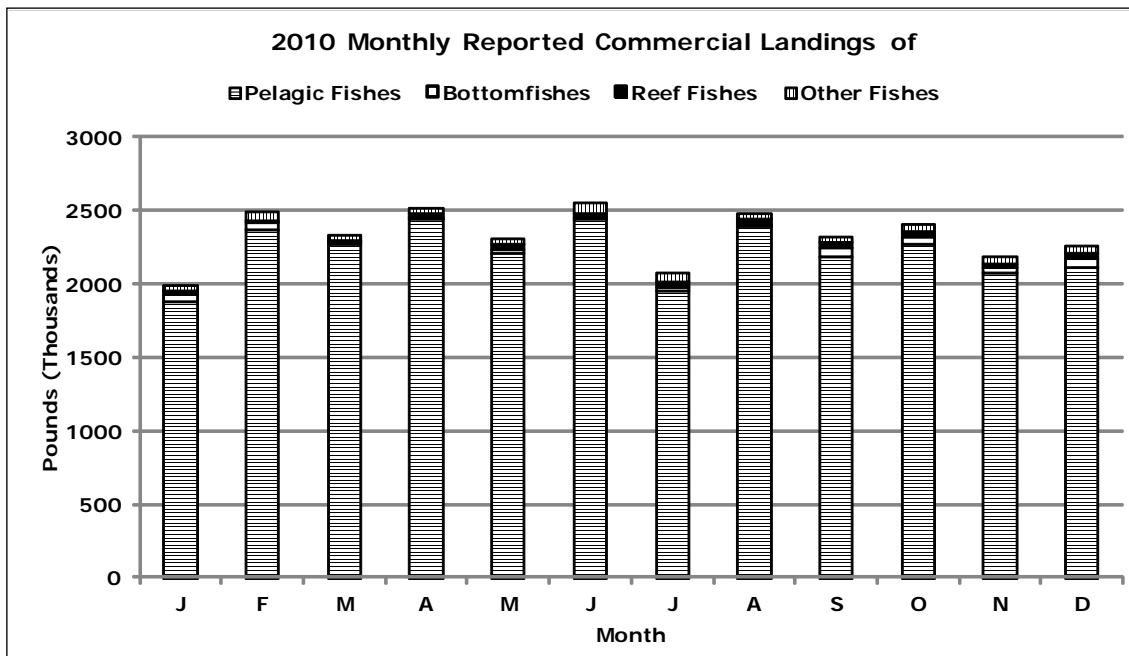


Figure D-1-1

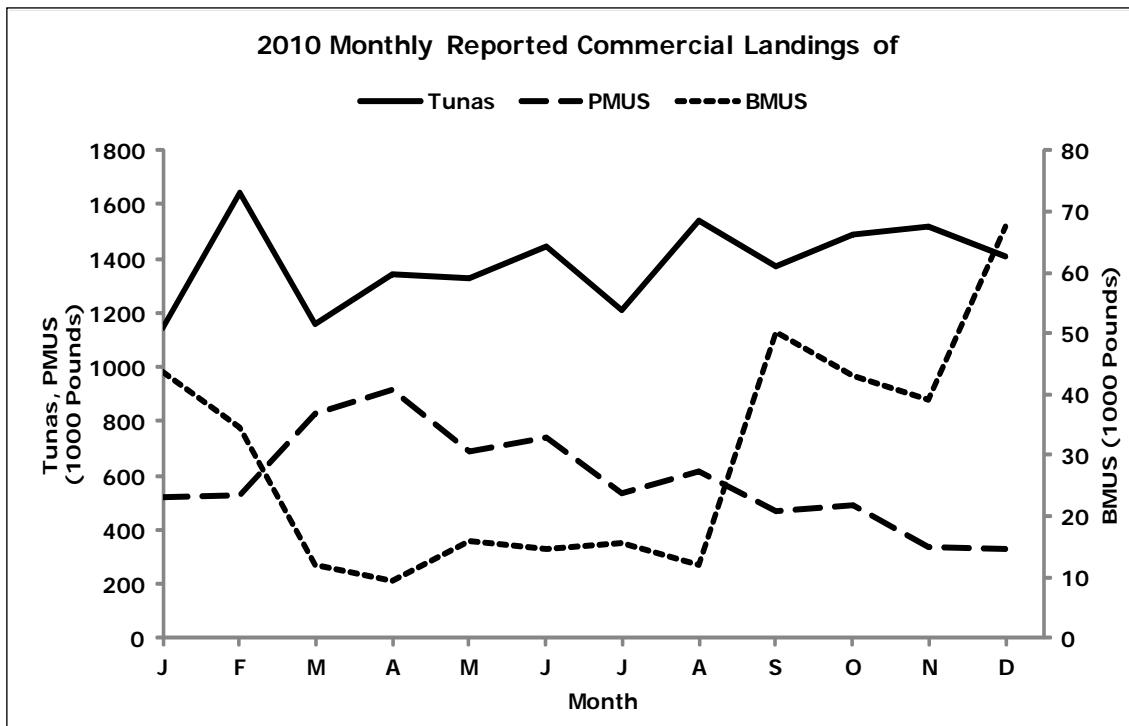


Figure D-1-2

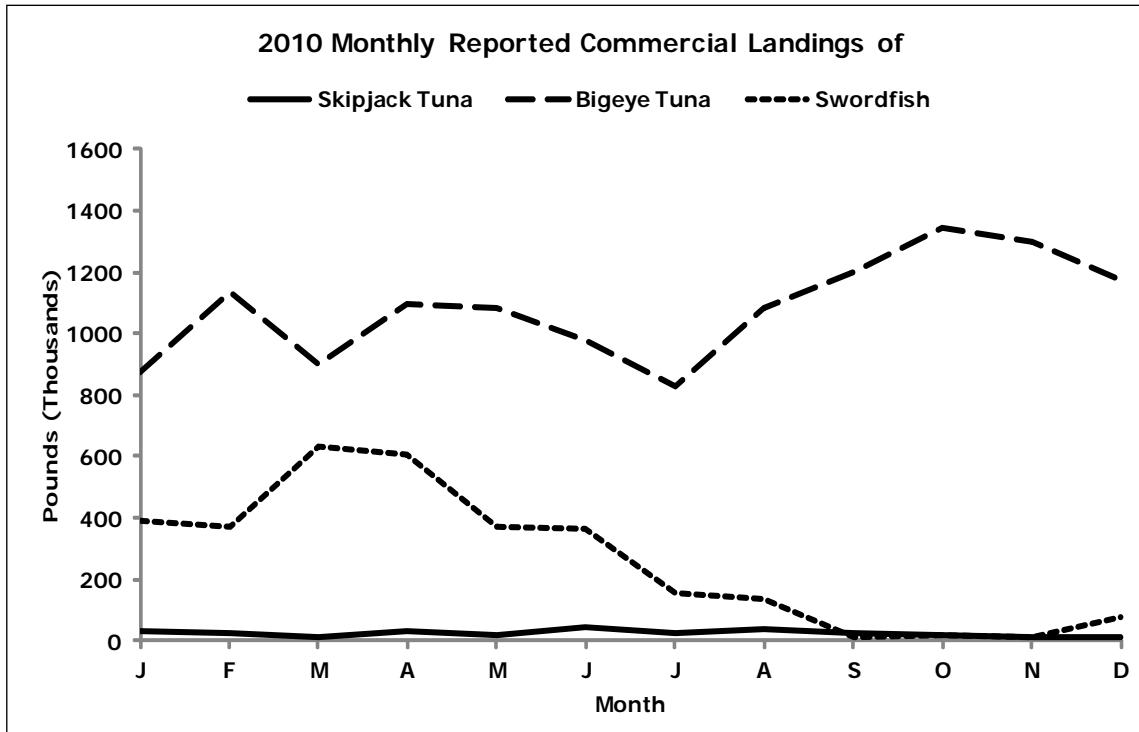


Figure D-1-3

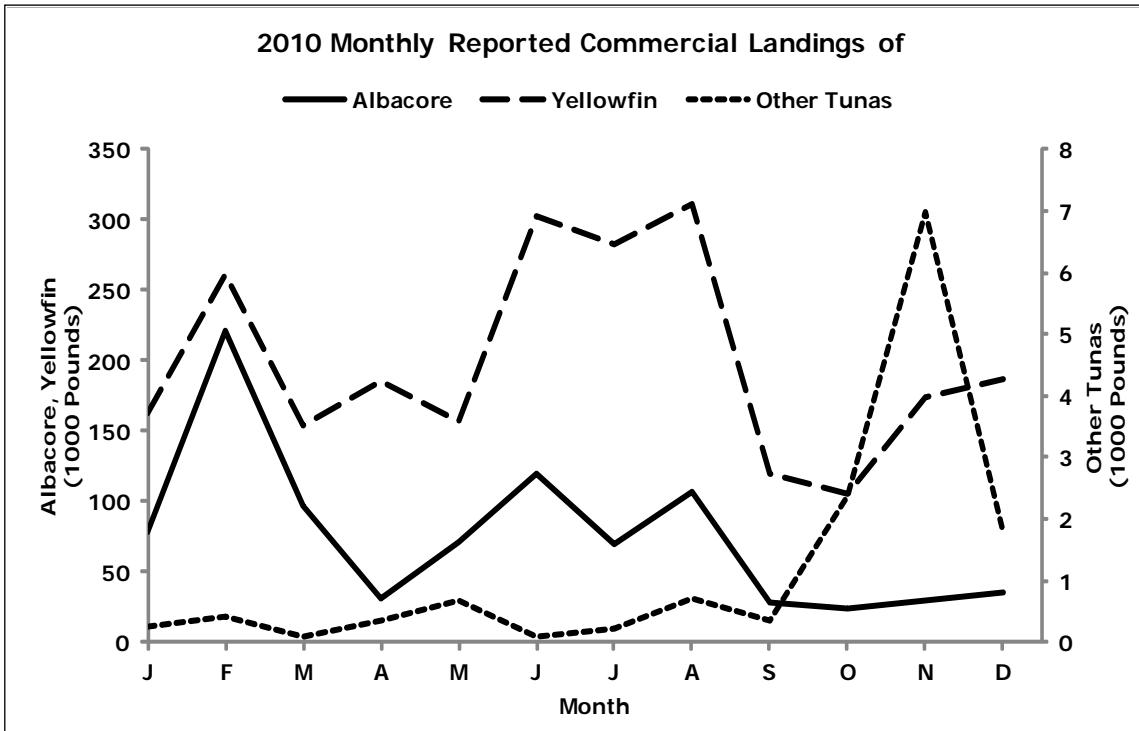


Figure D-1-4

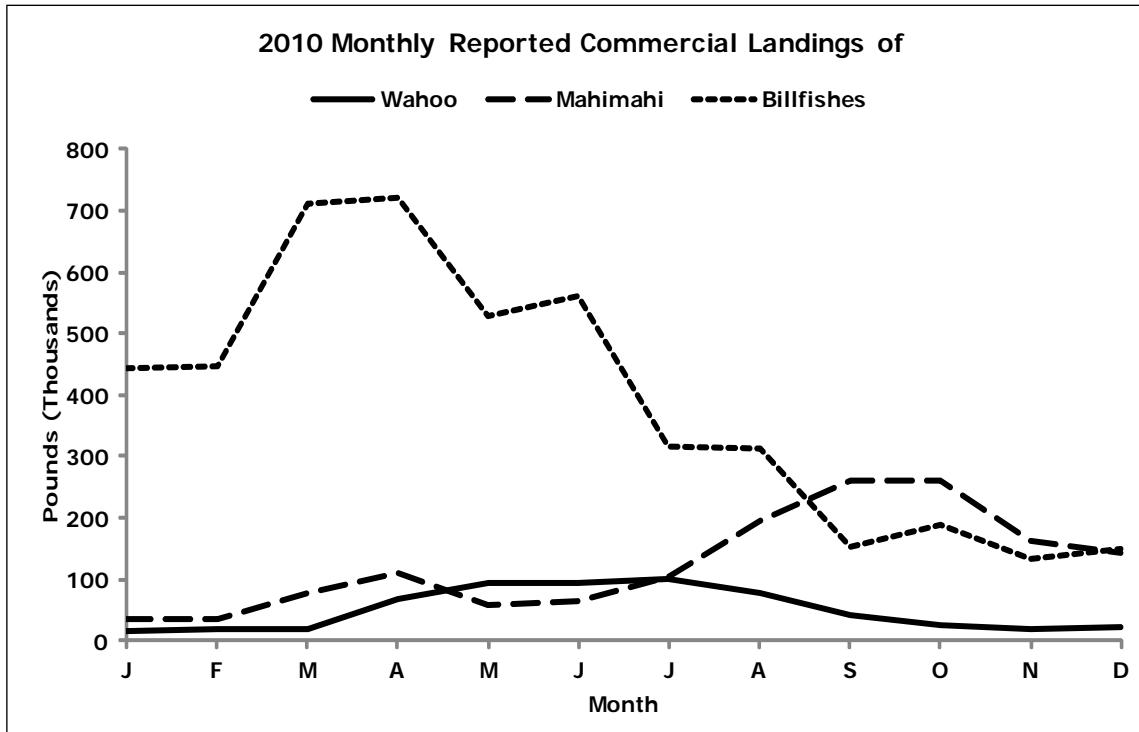


Figure D-1-5

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

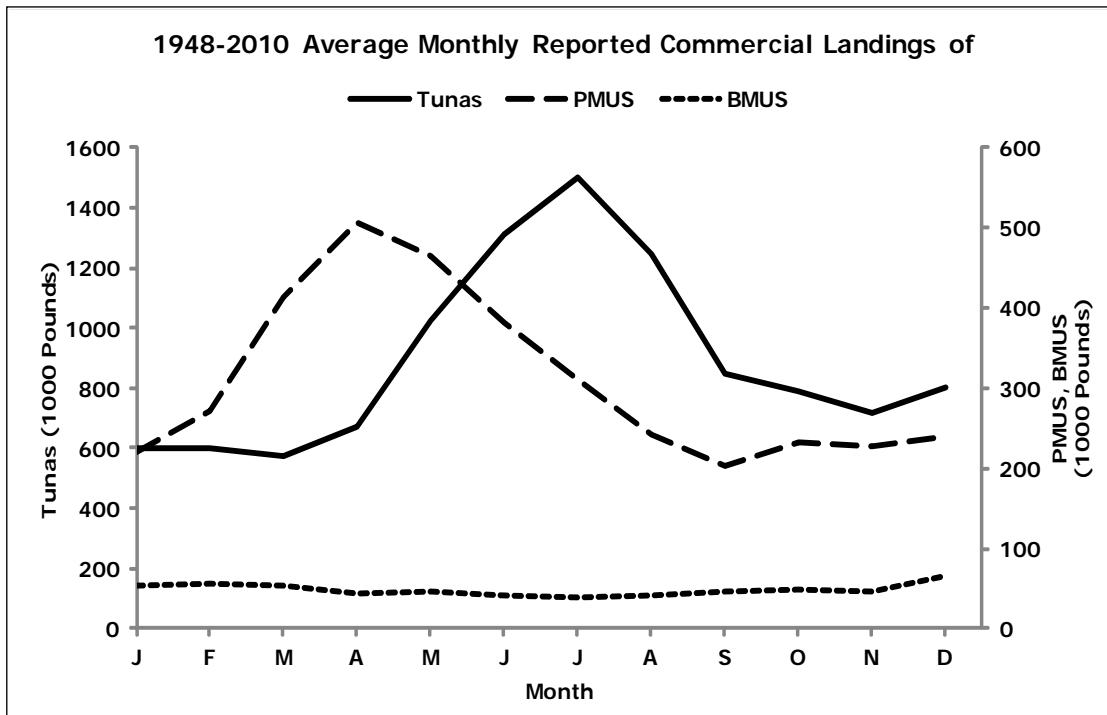


Figure D-2-1

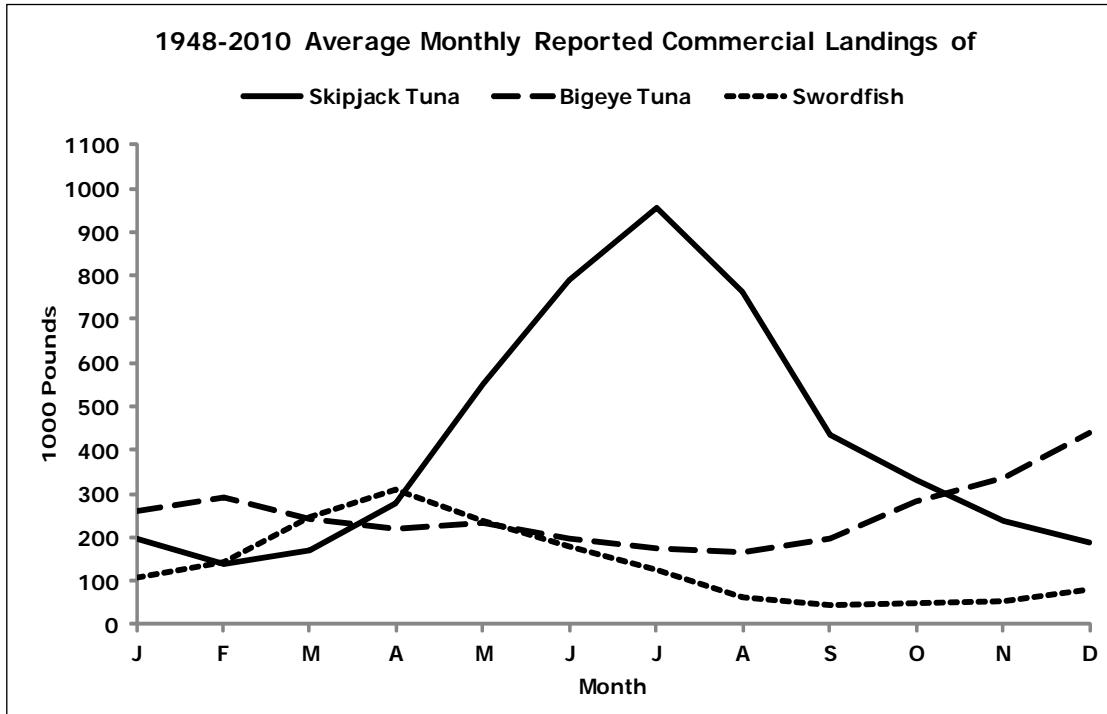


Figure D-2-2

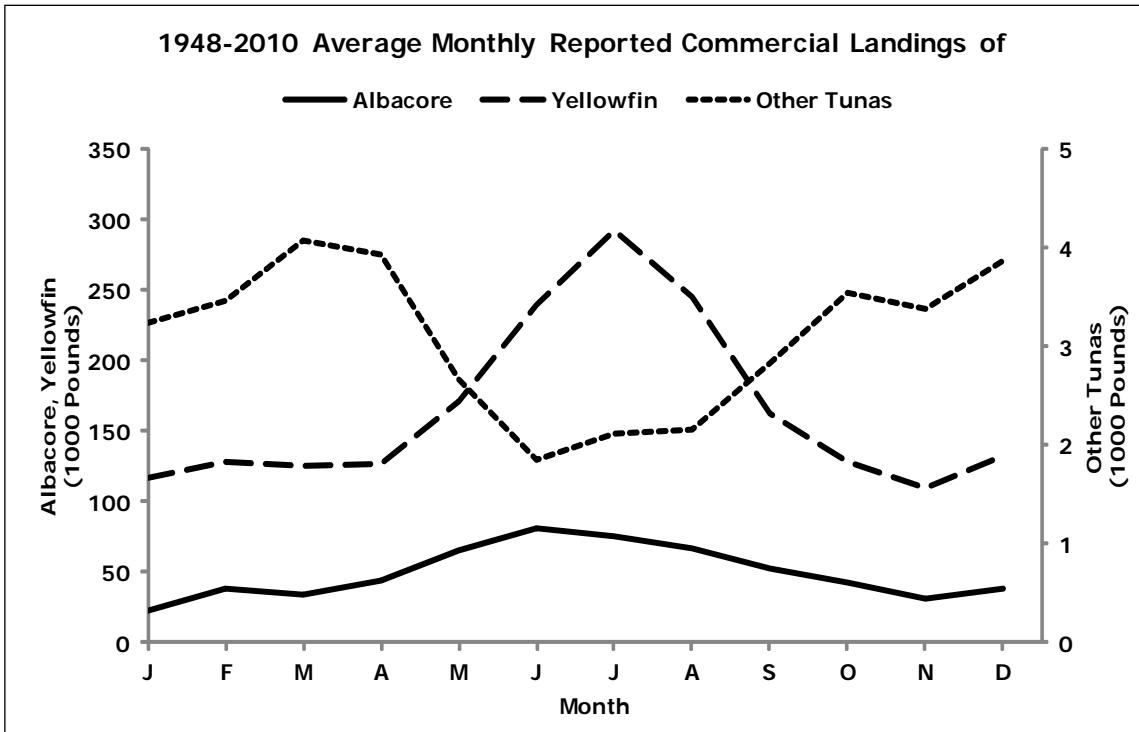


Figure D-2-3

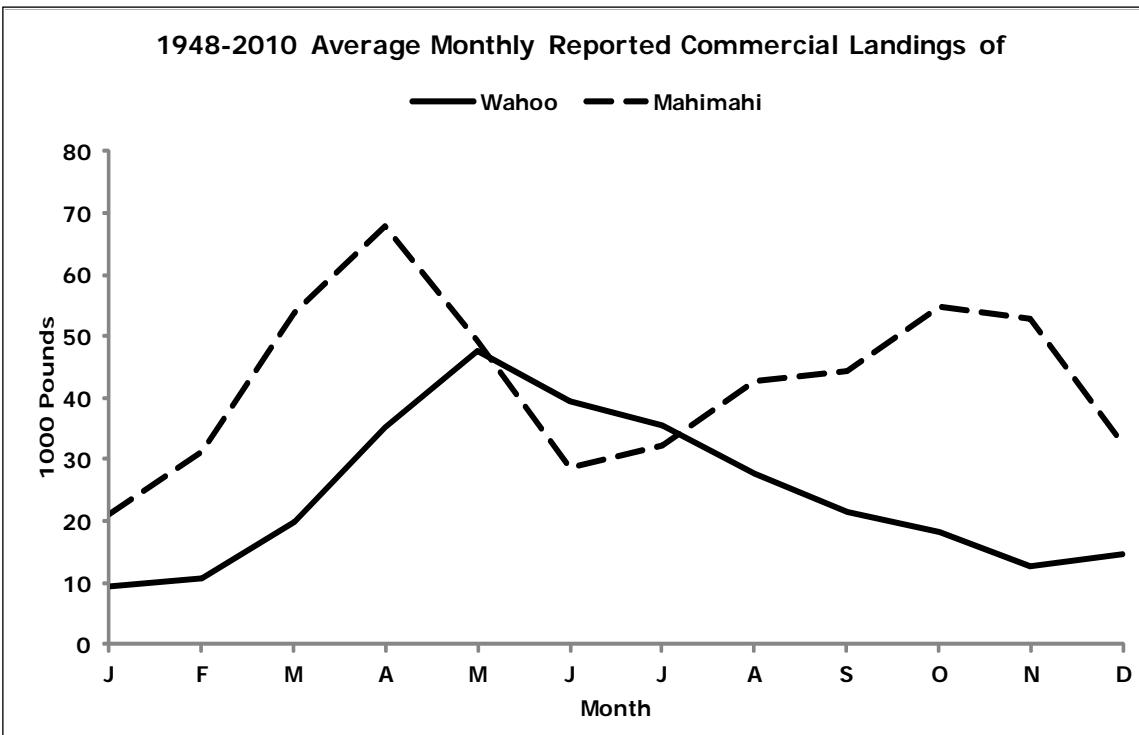


Figure D-2-4

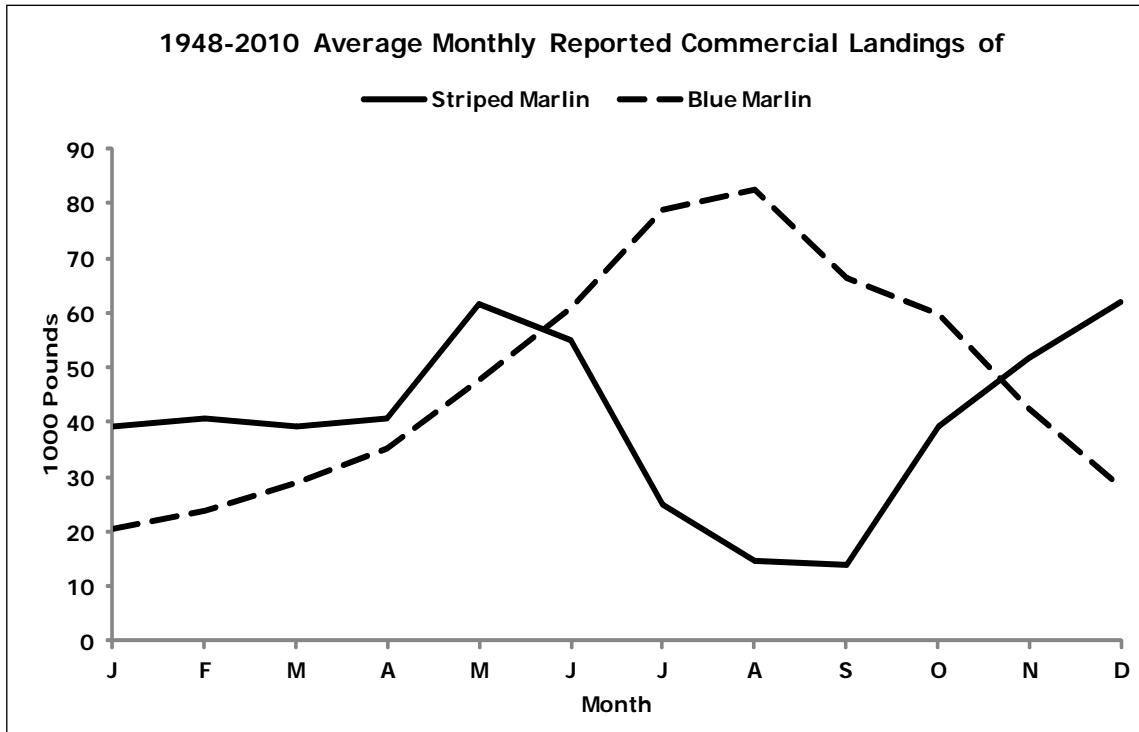


Figure D-2-5

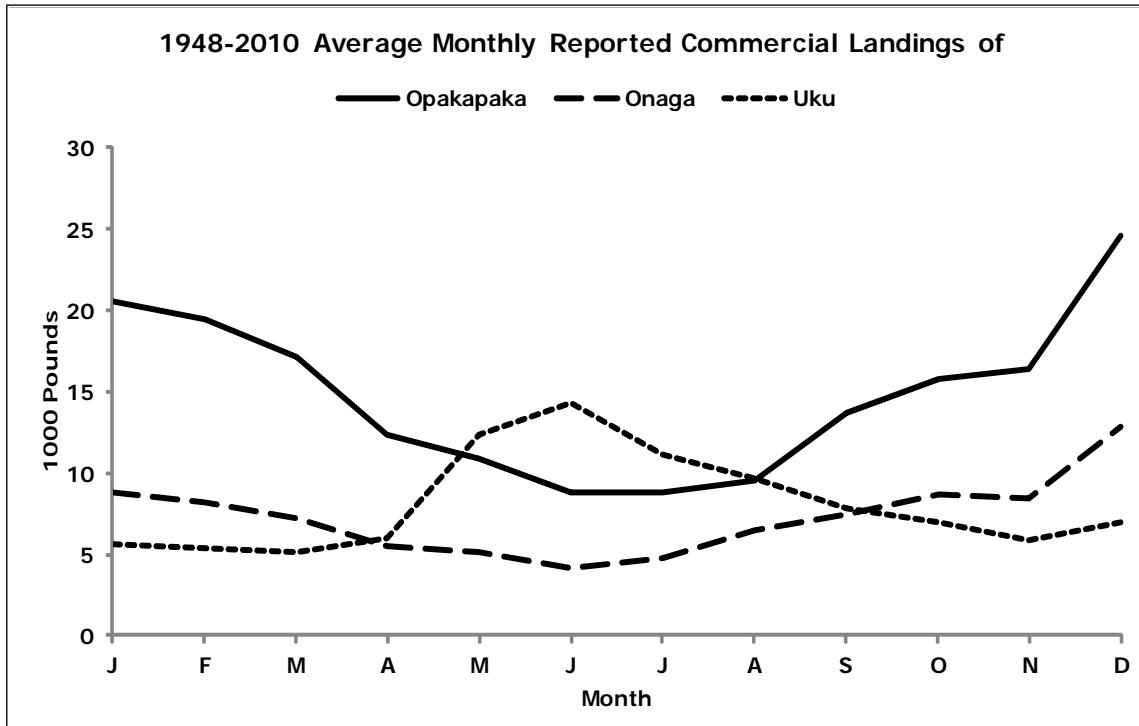


Figure D-2-6

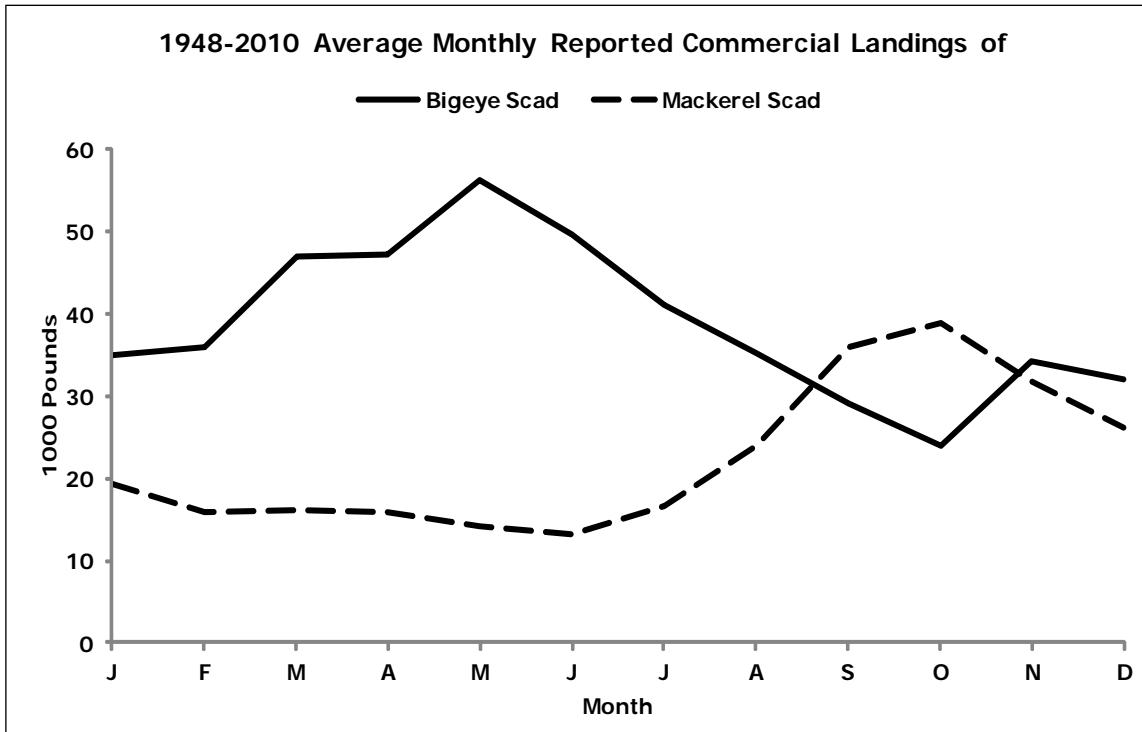


Figure D-2-7

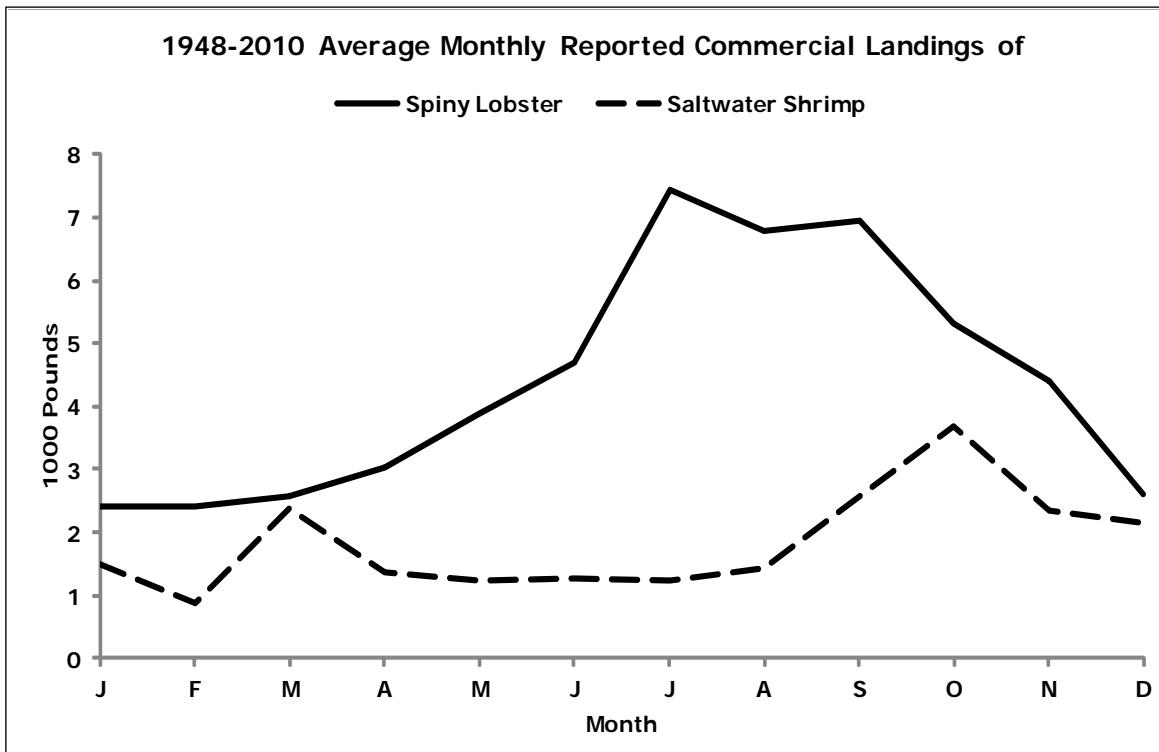


Figure D-2-8

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

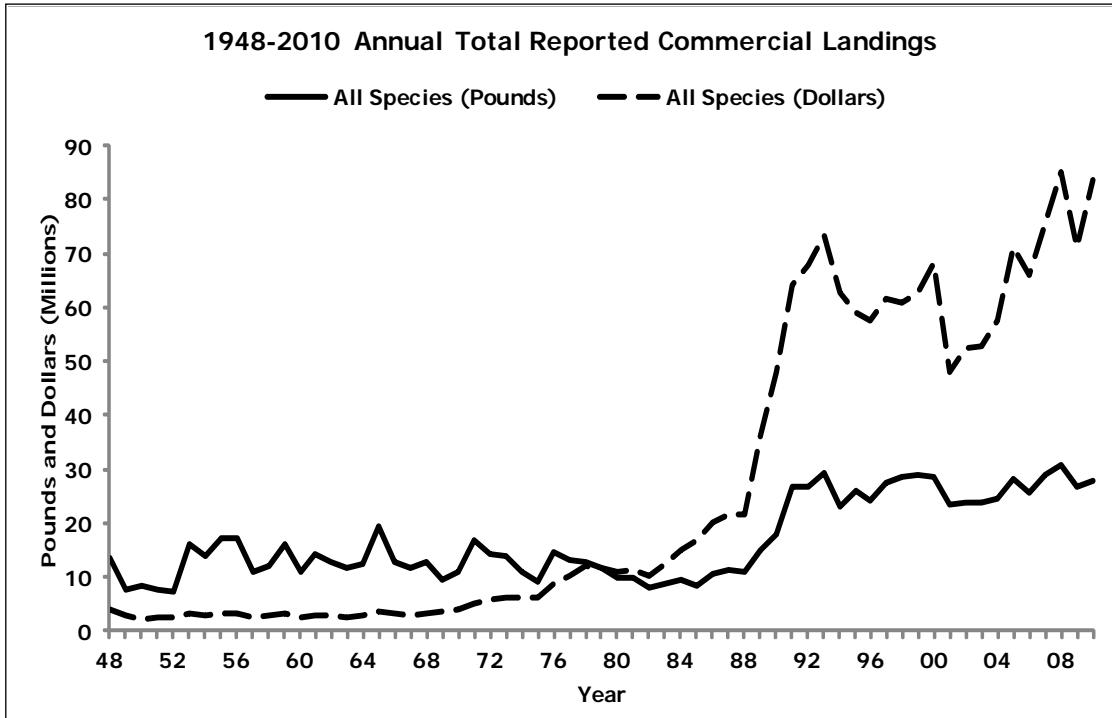


Figure D-3-1

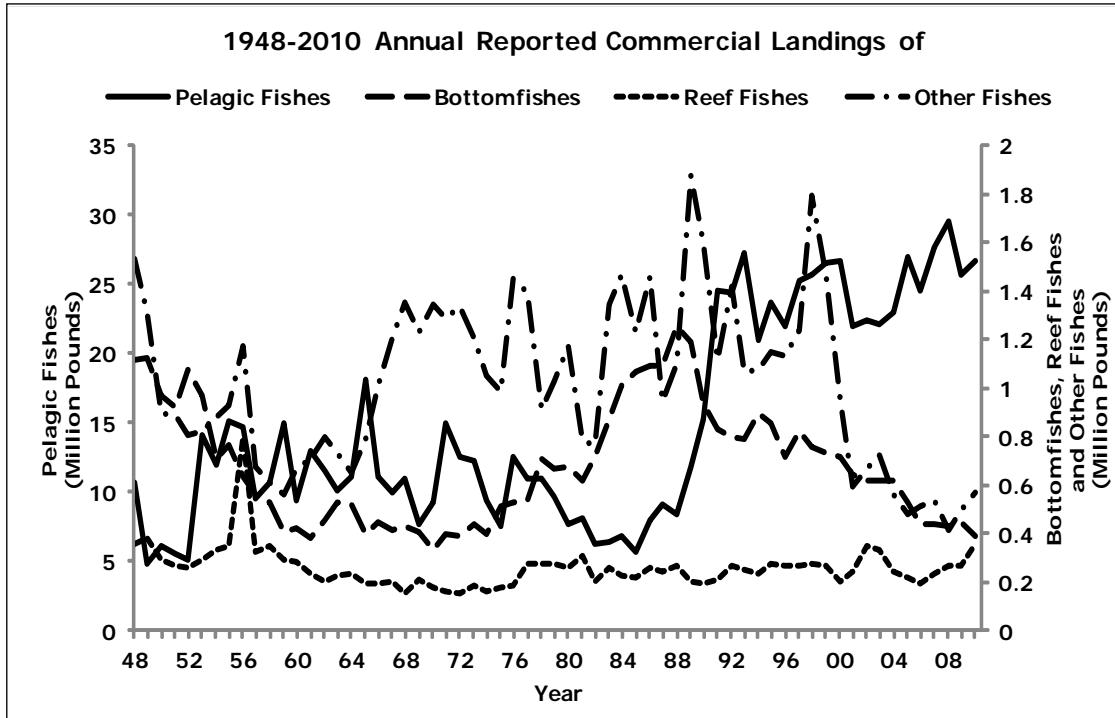


Figure D-3-2

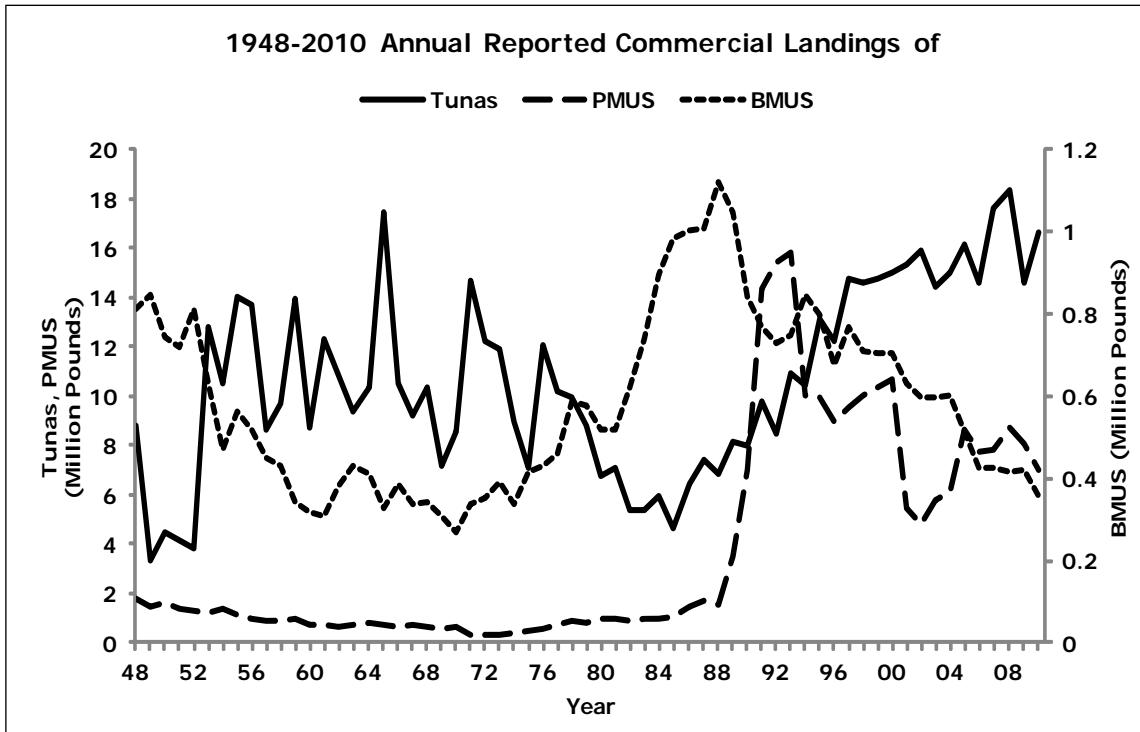


Figure D-3-3

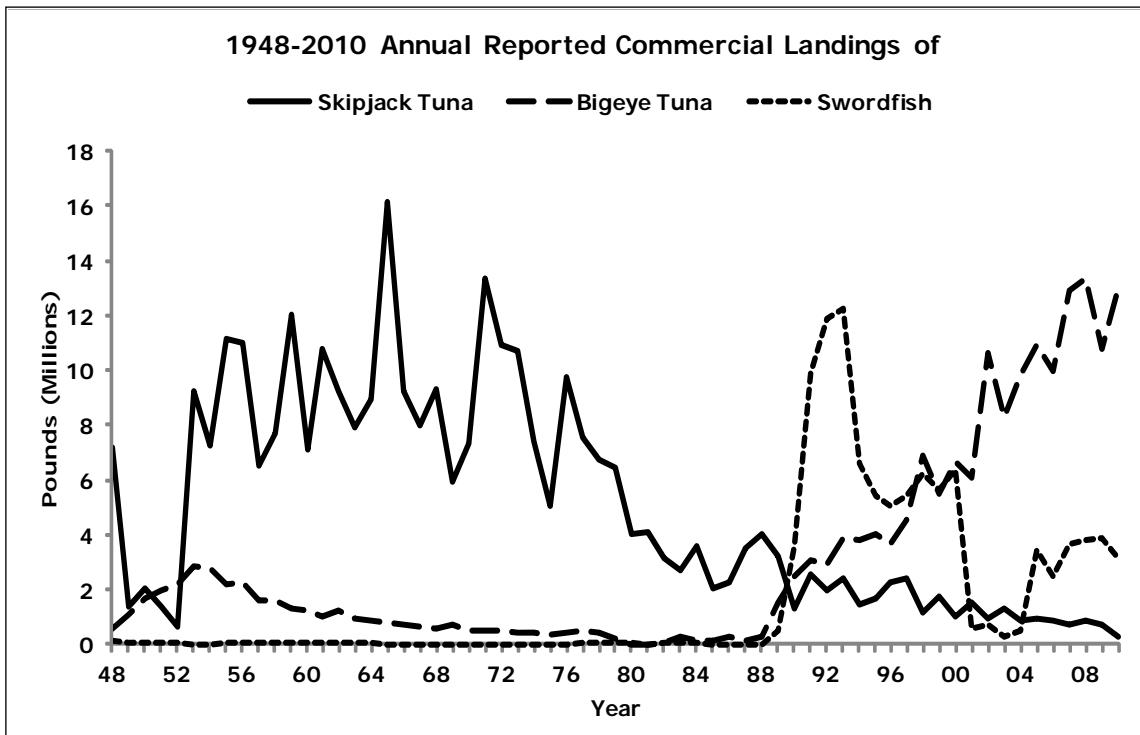


Figure D-3-4

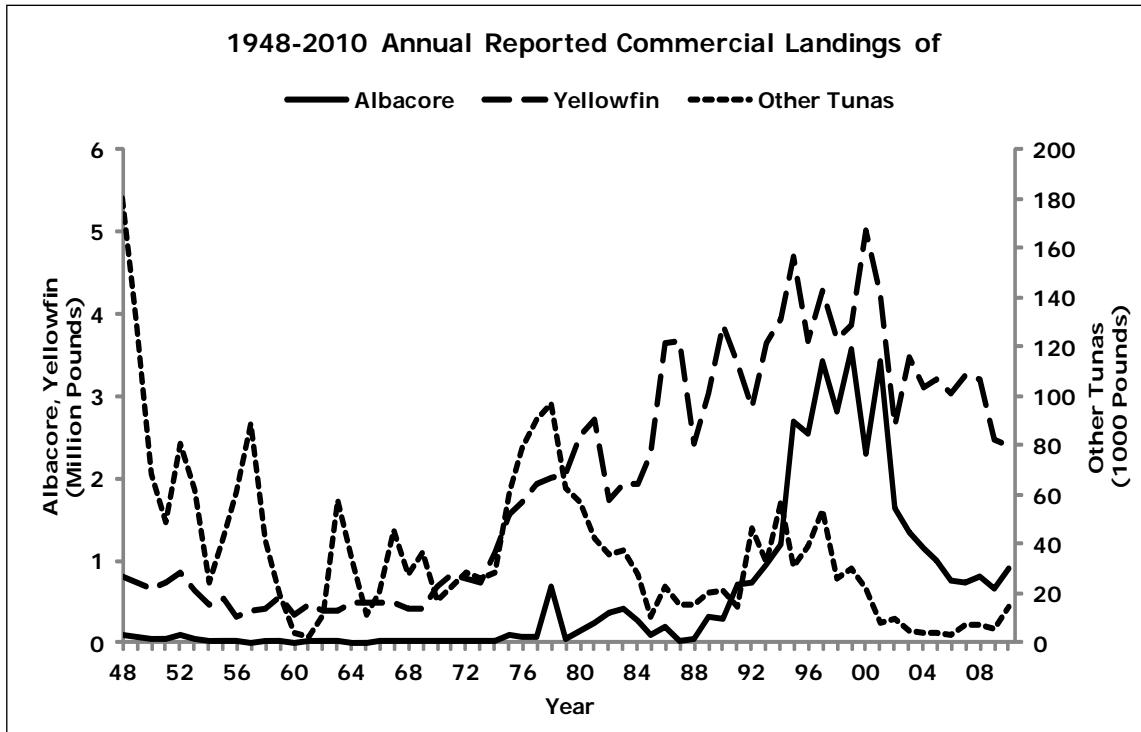


Figure D-3-5

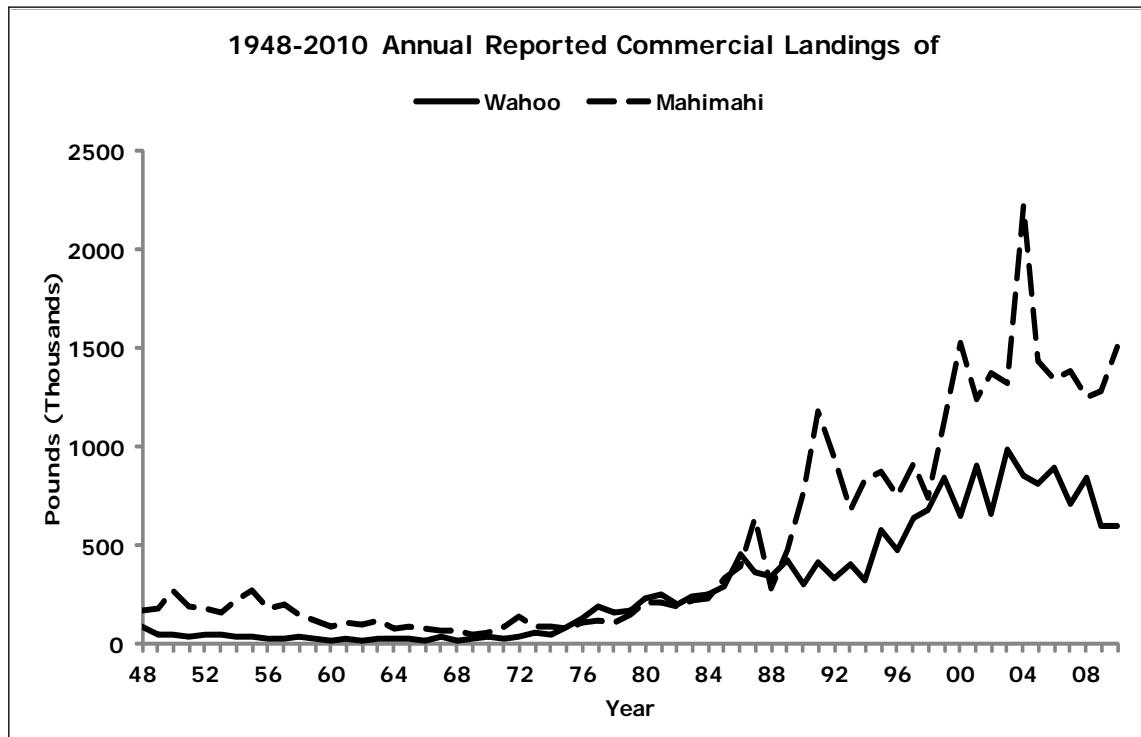


Figure D-3-6

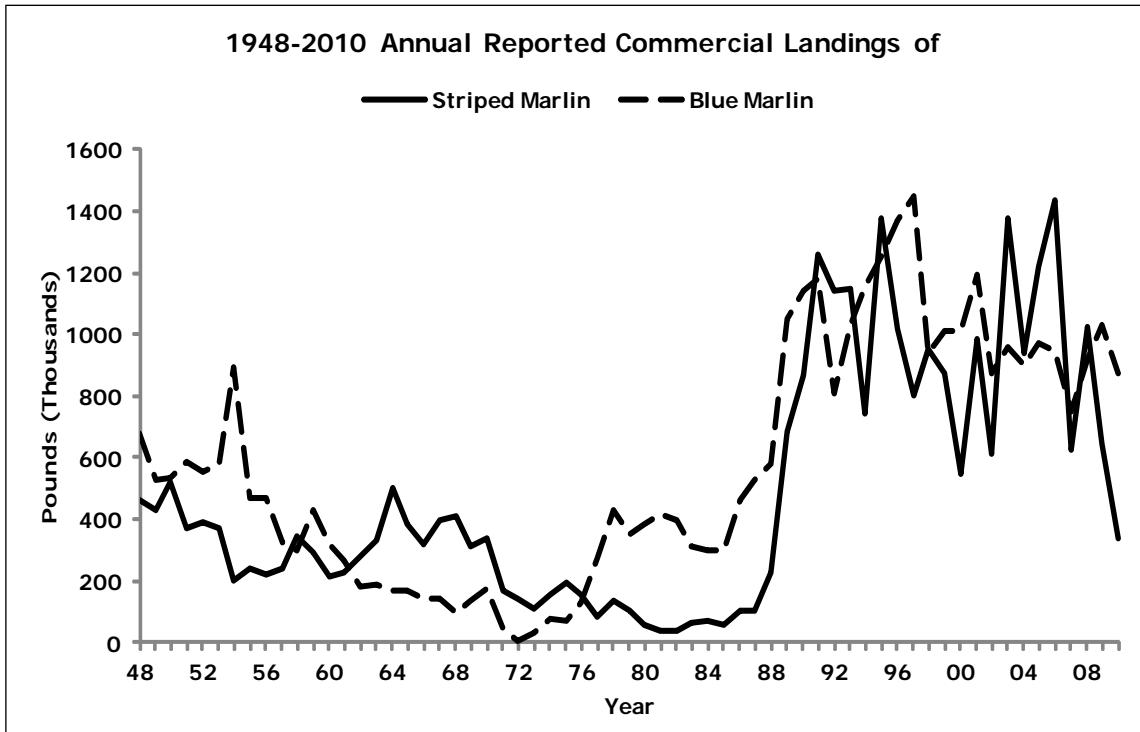


Figure D-3-7

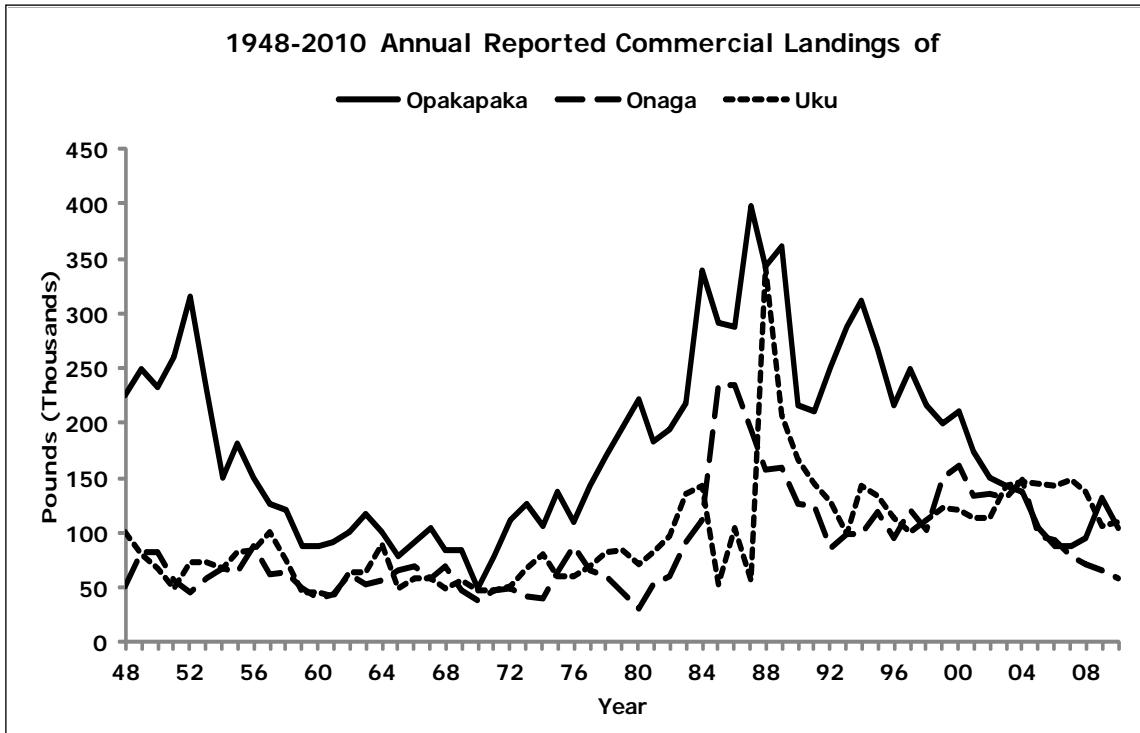


Figure D-3-8

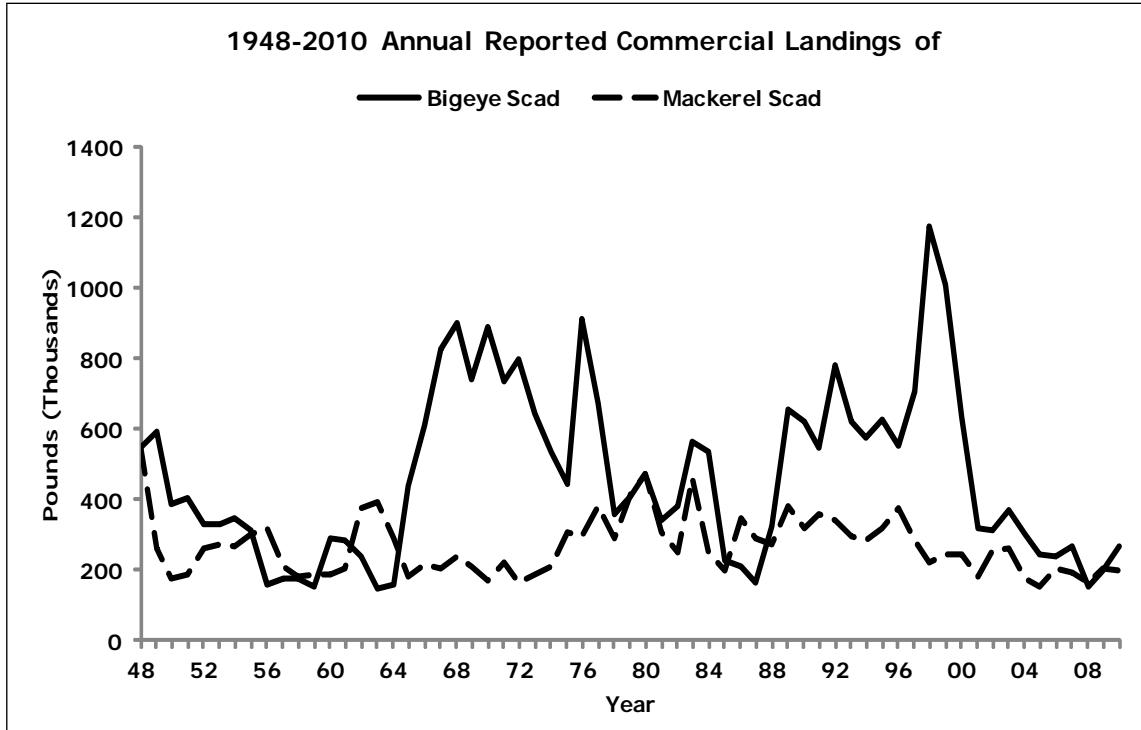


Figure D-3-9

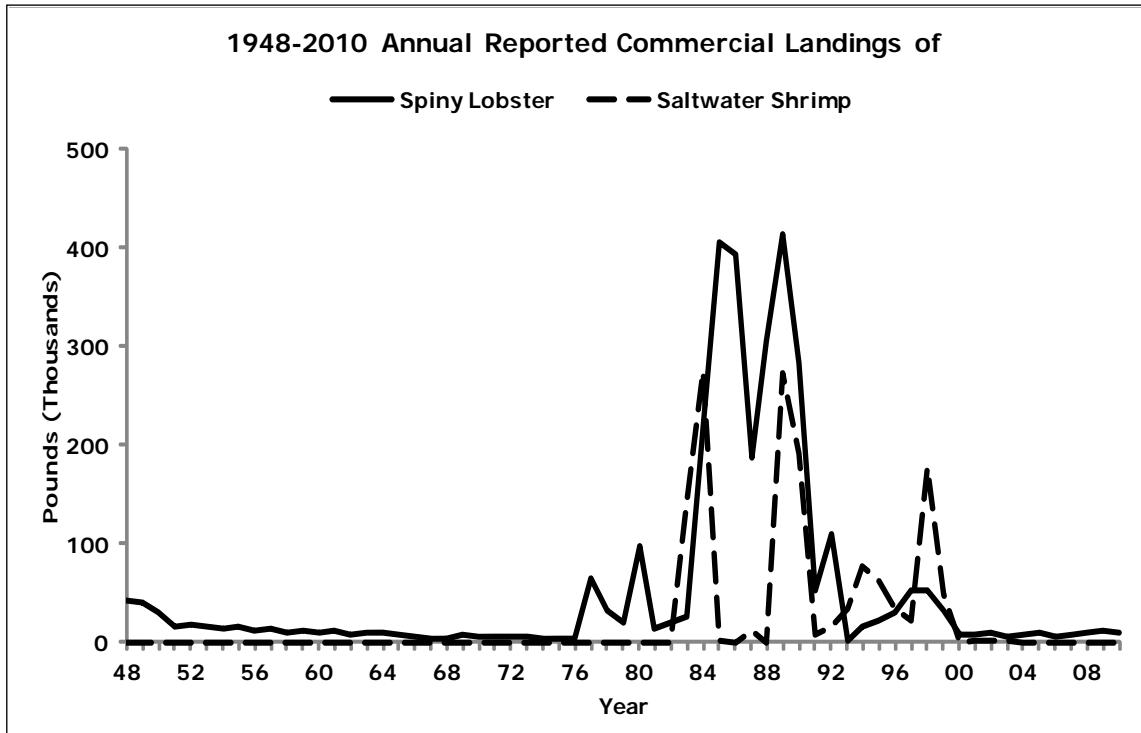


Figure D-3-10

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

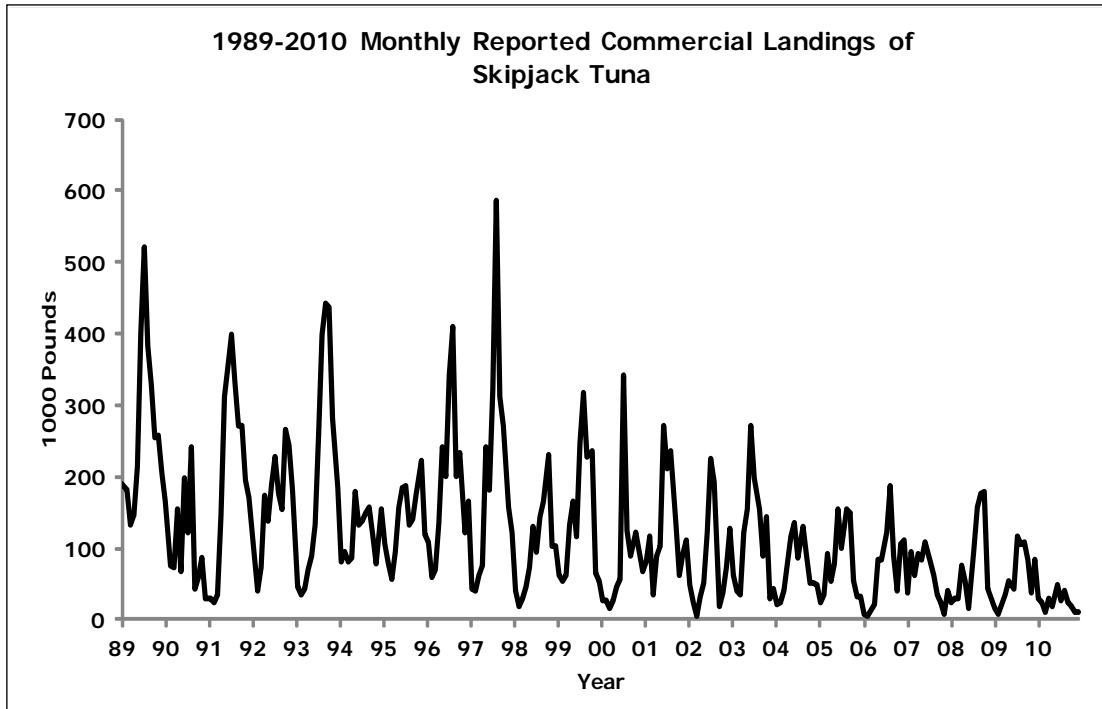


Figure D-4-1

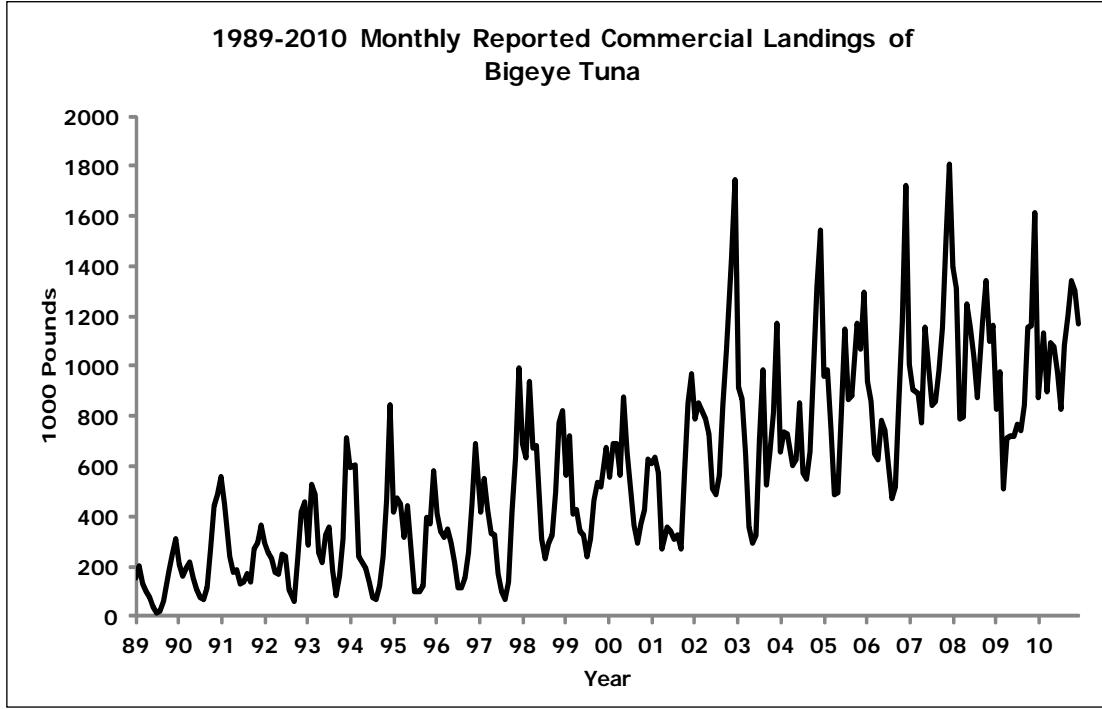


Figure D-4-2

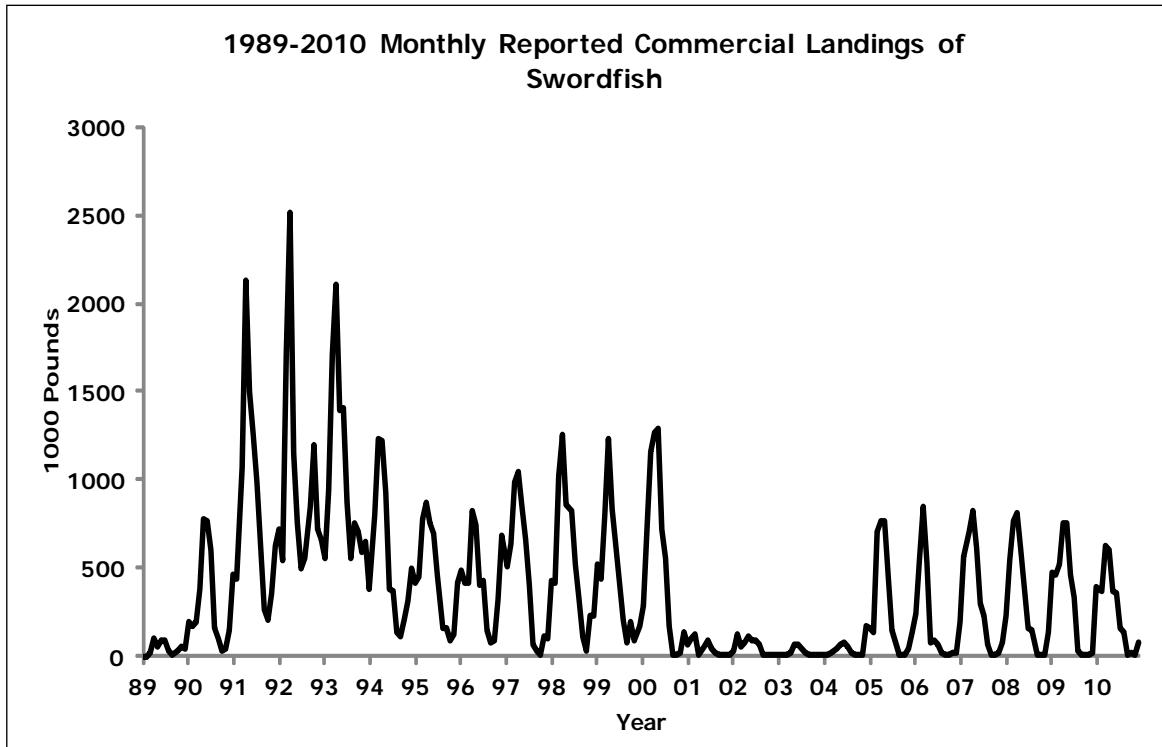


Figure D-4-3

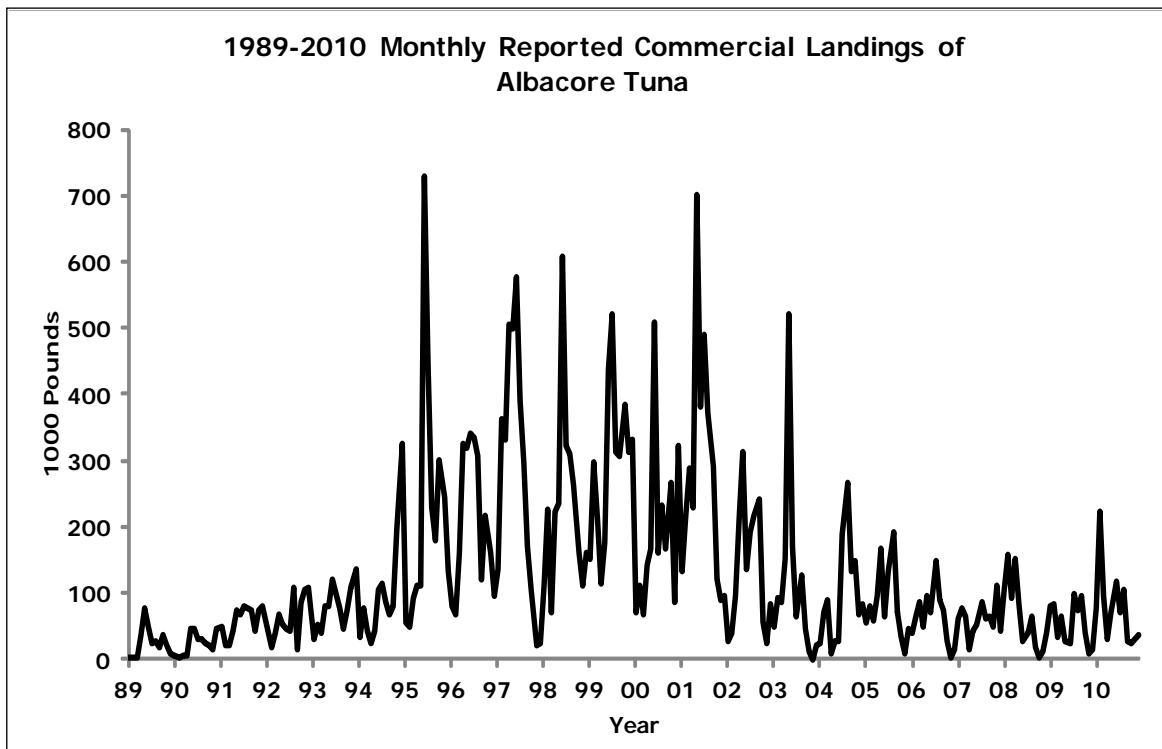


Figure D-4-4

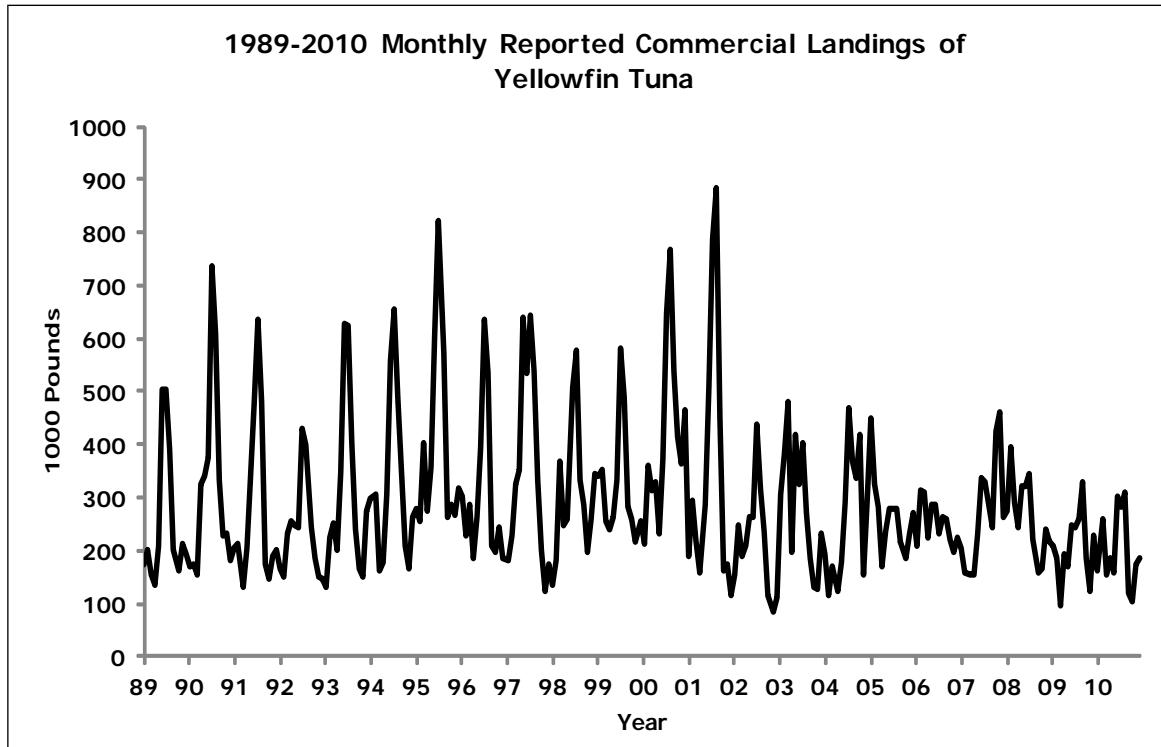


Figure D-4-5

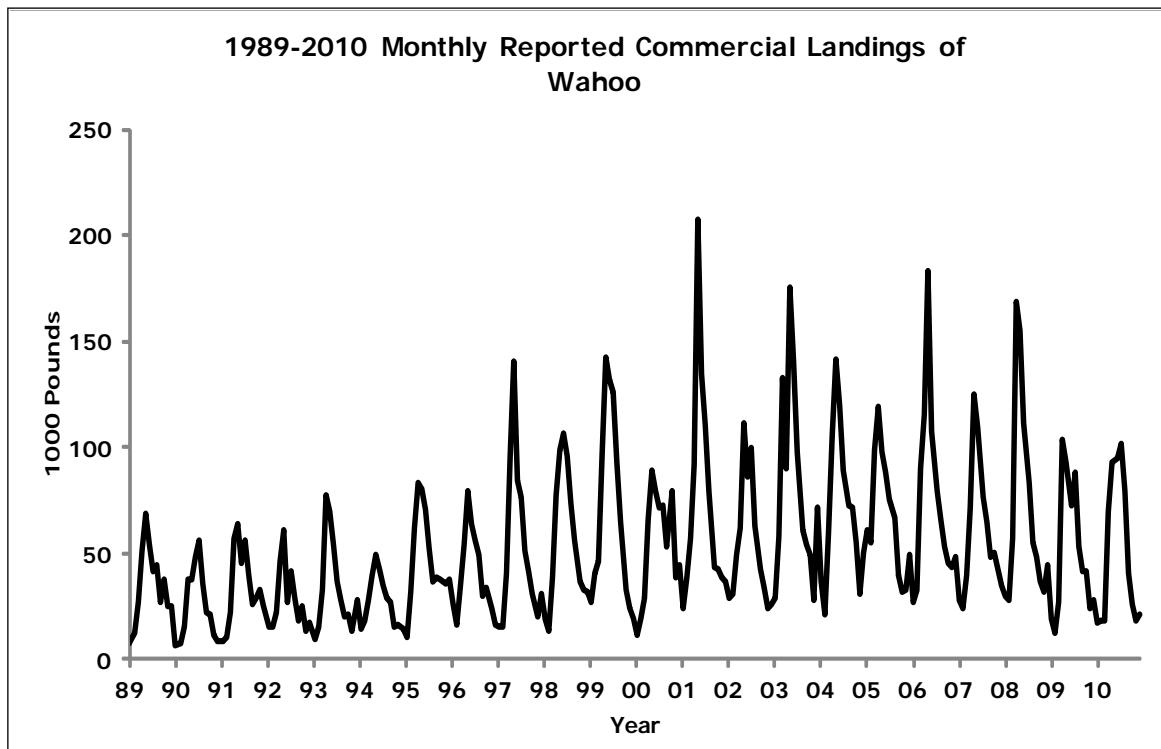


Figure D-4-6

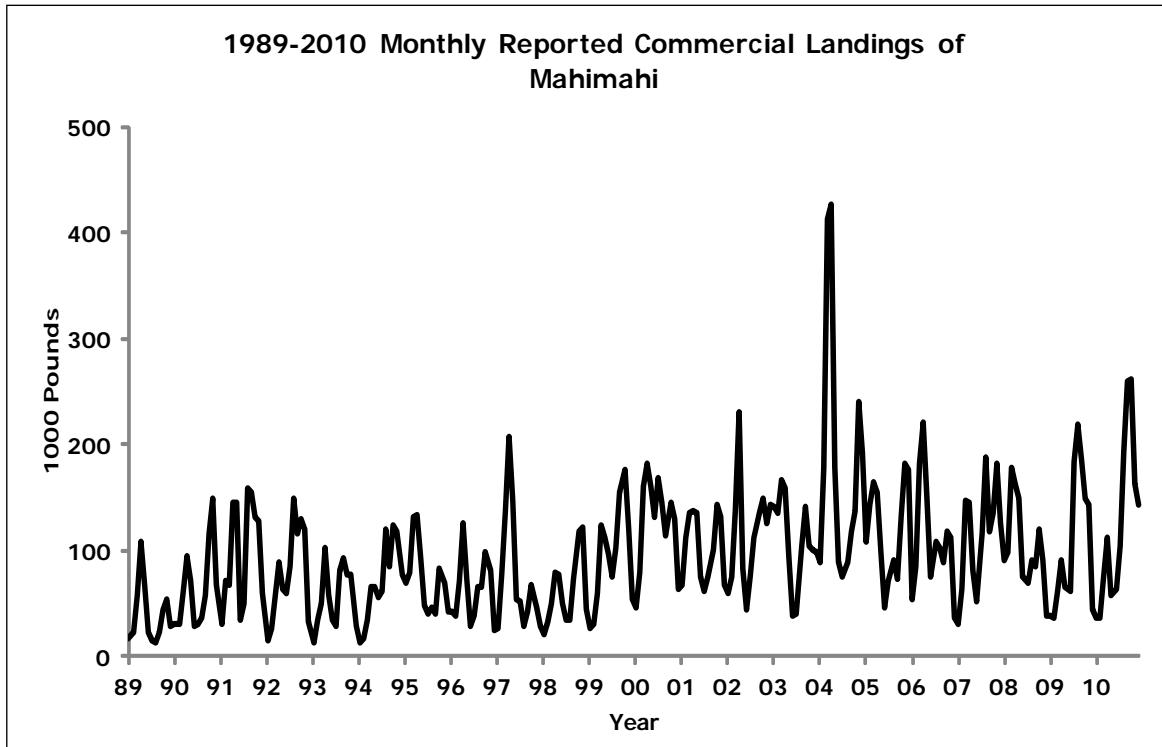


Figure D-4-7

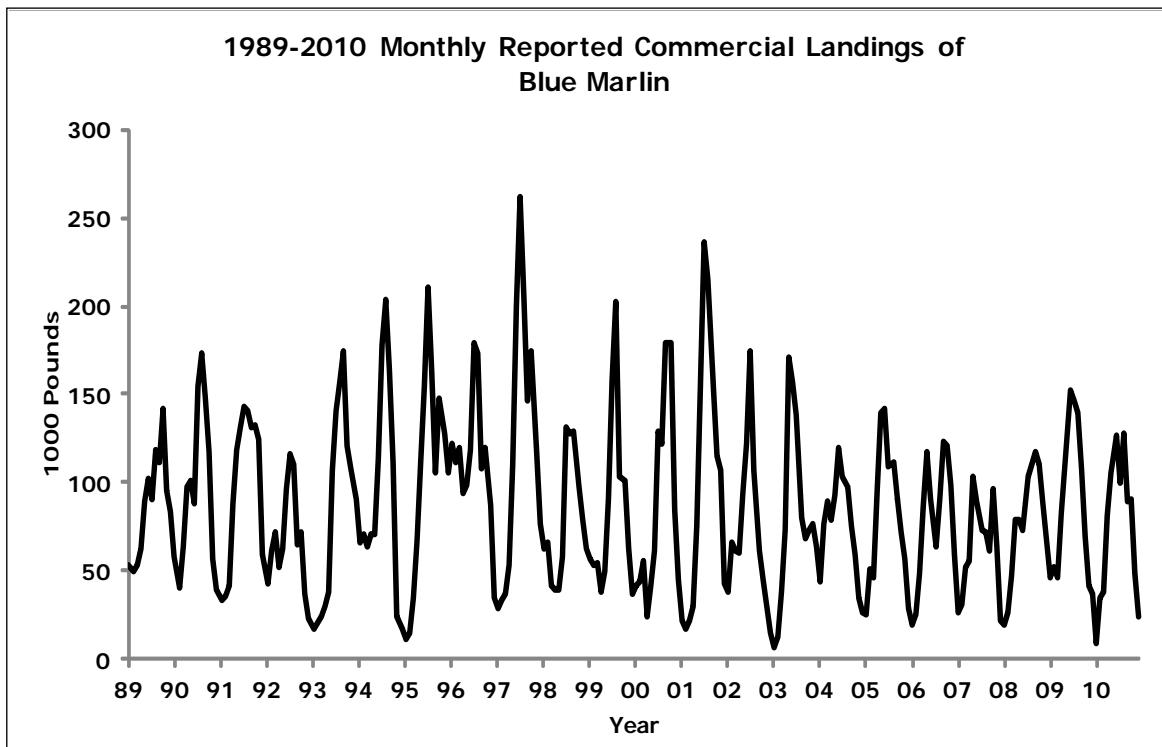


Figure D-4-8

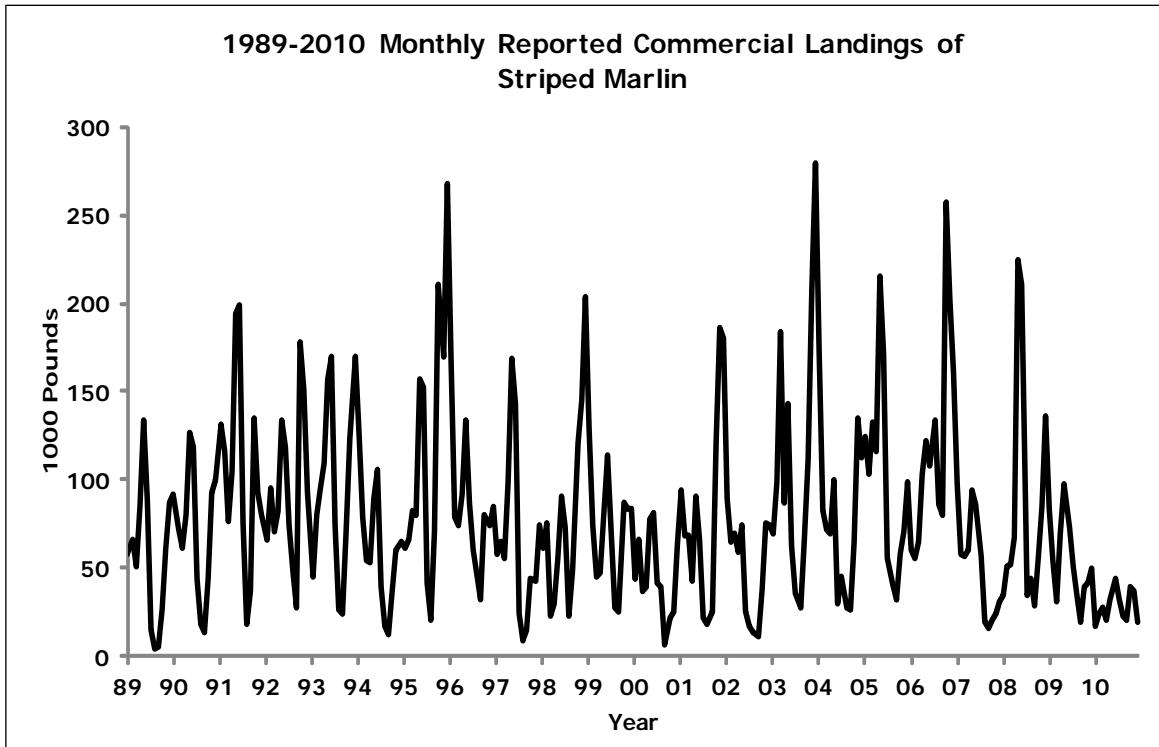


Figure D-4-9

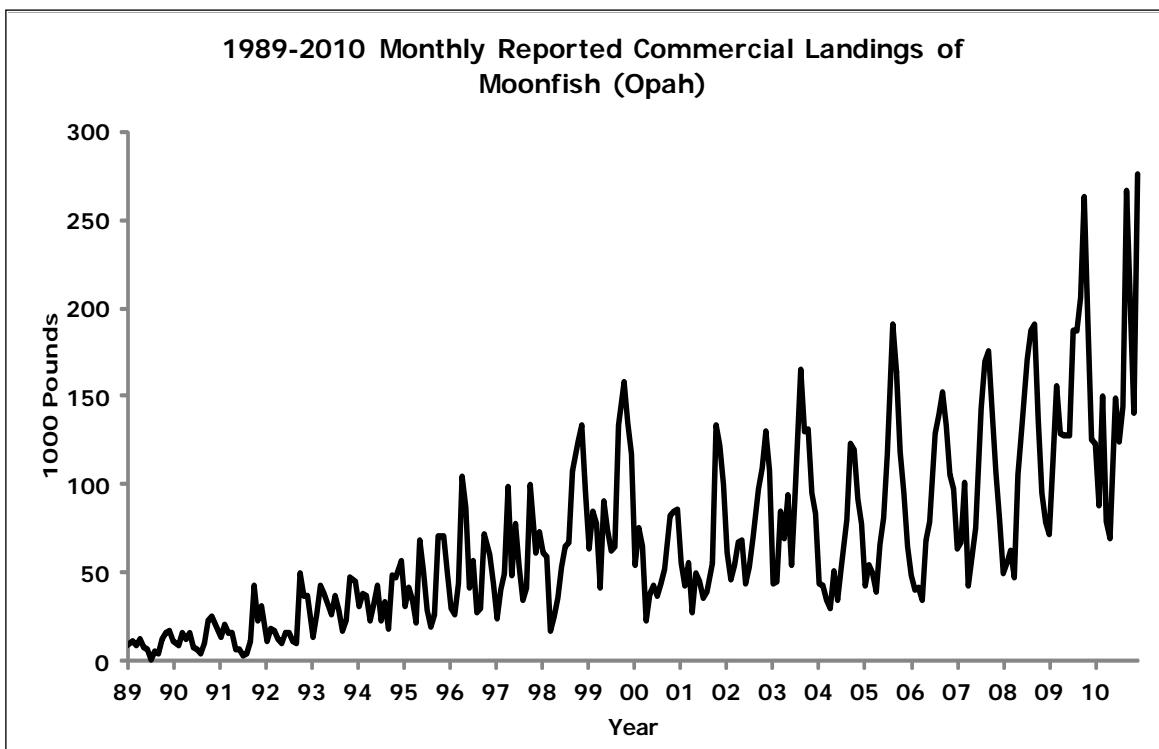


Figure D-4-10

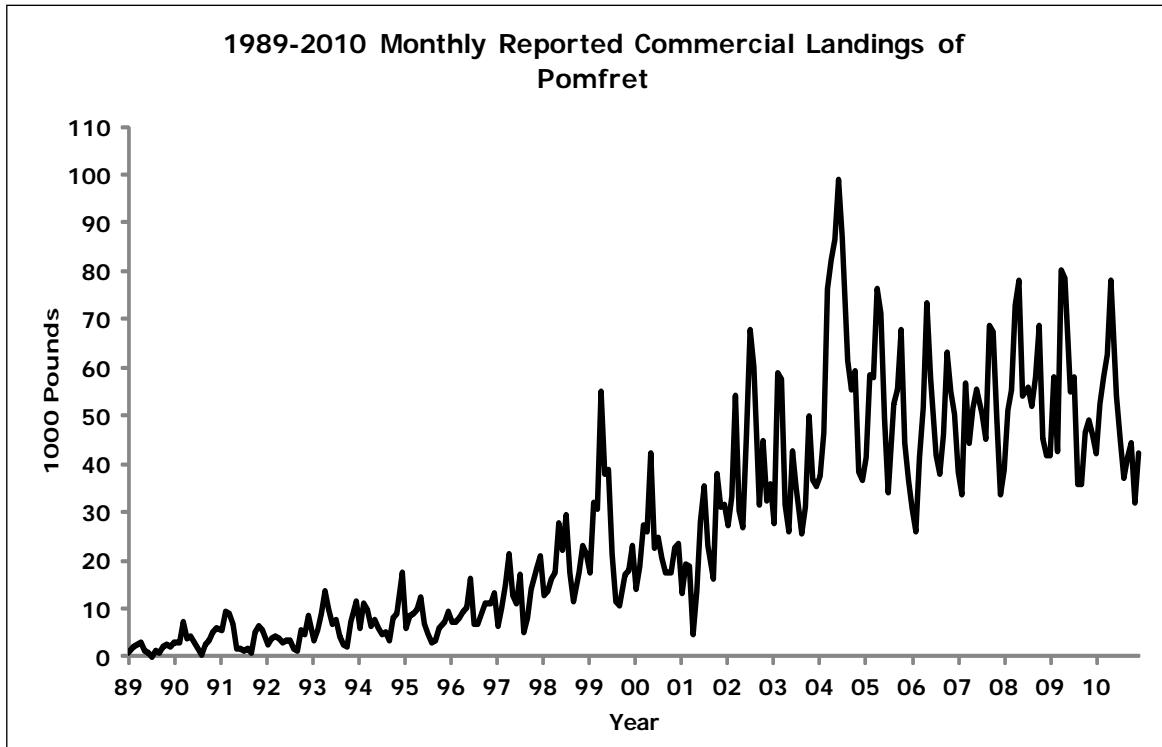


Figure D-4-11

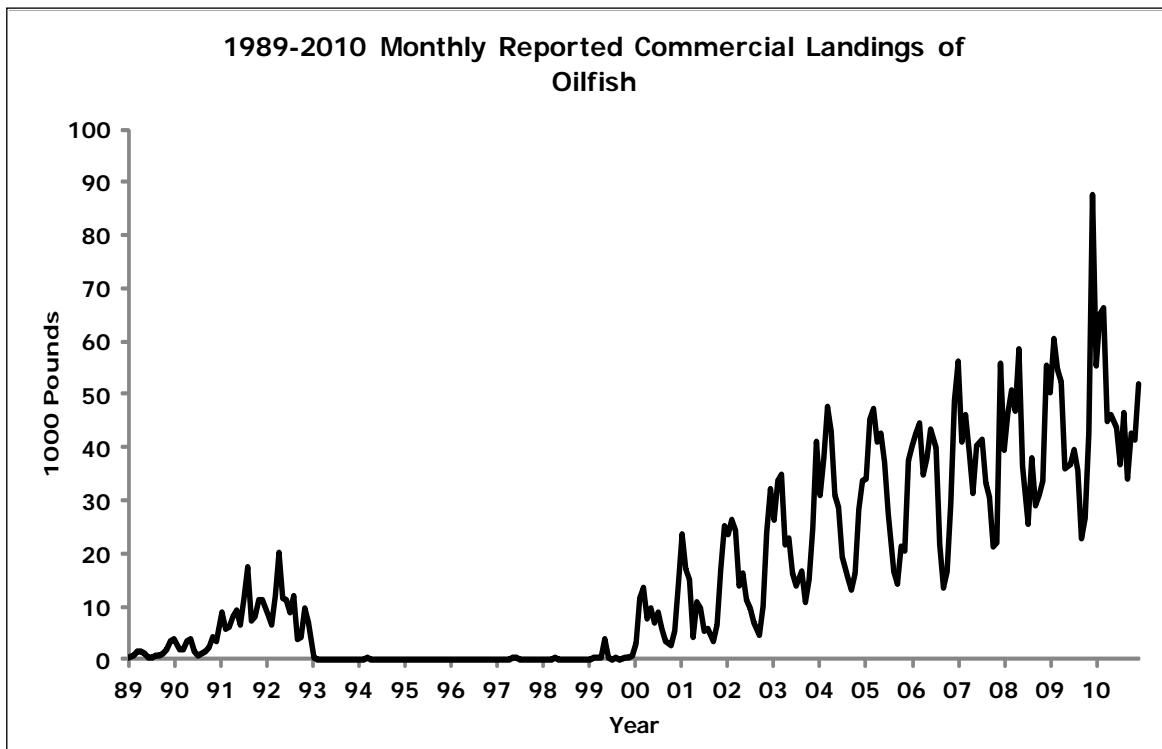


Figure D-4-12

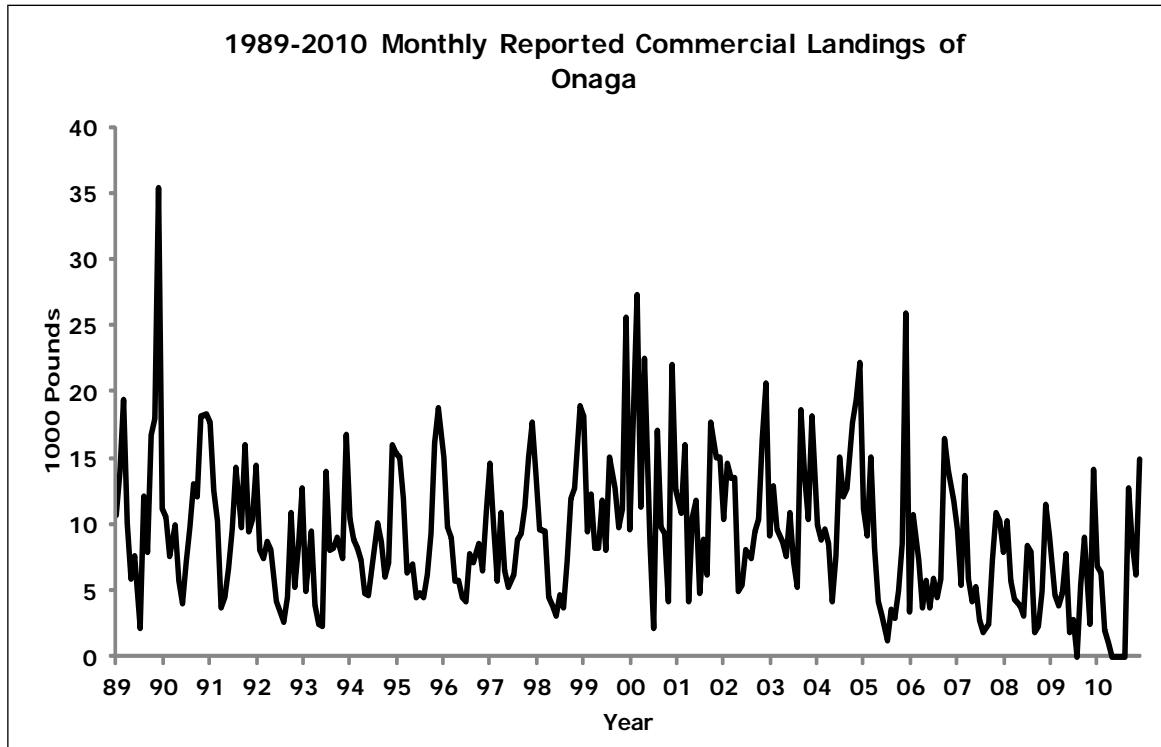


Figure D-4-13

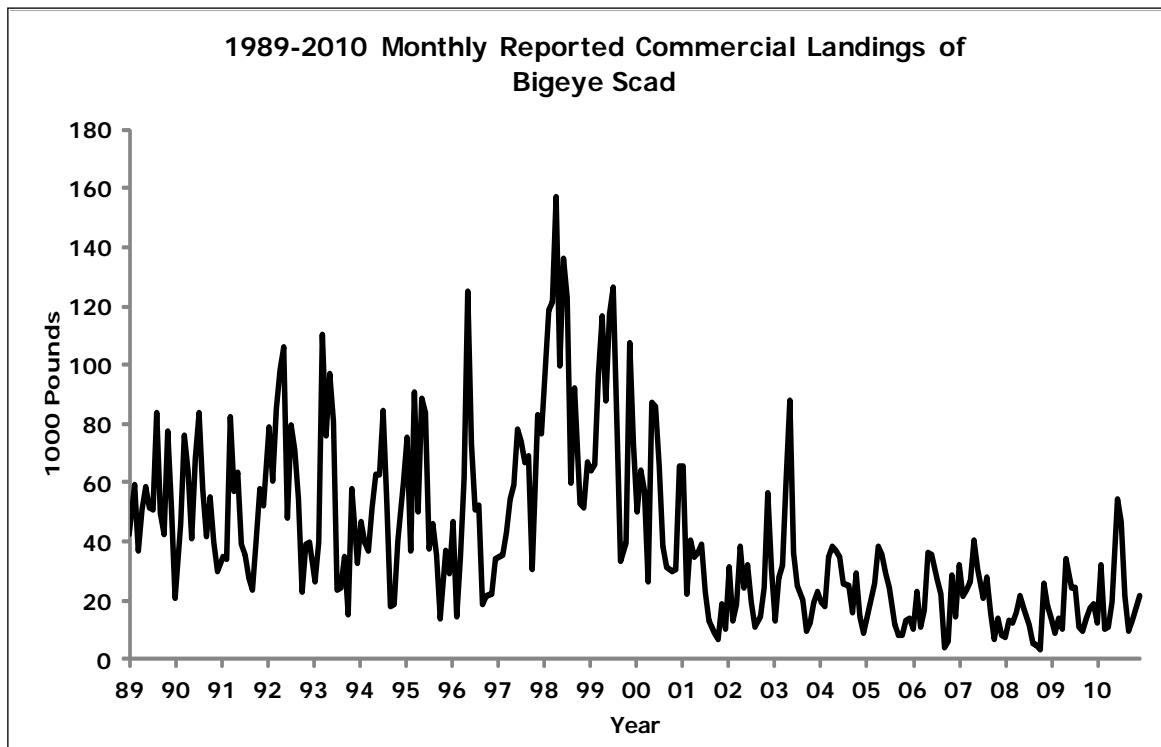


Figure D-4-14