

# **GUAM 2001 FISHERY STATISTICS**

Compiled by  
Guam Division of Aquatic and Wildlife Resources  
and the  
Western Pacific Fishery Information Network

August 2003

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# GUAM 2001 FISHERY STATISTICS

## INTRODUCTION

The Territory of Guam is the southernmost, largest, and most populous island (about 161,000) in the Mariana Archipelago.

*Location:* 13.4°N latitude, 144.4°E longitude

*Population:* 151,716

*Economy:* US military, tourism, and fish and handicrafts exports



Guam

source: <<http://www.cia.gov/cia/publications/factbook/gq.html>>;  
The World Factbook

Fishing activities on Guam are divided into two basic categories: offshore and inshore fishing. Offshore fishing typically involves small boats (12 to 48 feet) going on 1 to 2-day trolling and bottomfishing trips. They usually originate from one of the three principal harbors located on the west coast and southern tip of the island. Inshore fishing is usually conducted without the use of a boat and consists mostly of nearshore casting, netting, and spearfishing. From the late 1980's to about 1996, the sportfishing charter boat industry grew significantly due to a strong Asian economy. Since 1996, declines in the Asian economy have resulted in a downturn in the industry. However, charter boats still contribute considerably to the commercial landings on Guam since much of their catch is sold.

In 1982, WPacFIN began working with staff of the Division of Aquatic and Wildlife Resources (DAWR) and with local fish dealers to obtain information on commercial landings through voluntary use of "trip ticket" invoices provided by WPacFIN. The tables and graphs in this section are based on data that are summarized from receipts submitted by all participating dealers on Guam, and then adjusted to create the estimated total commercial landings based on an estimated annual percent coverage factor.

## COMMERCIAL LANDINGS DATA COLLECTION SYSTEM

There are three sources of fish in Guam's commercial market: 1) full-time commercial fishermen; 2) part-time commercial fishermen; and 3) subsistence or recreational "expense" fishermen who frequently sell portions of their catch to help defray costs. Licenses are not required to sell fish in Guam, nor are there any reporting requirements for those selling fish.

In July 1979 the Guam Fishermen's Coop was established in Agana via government funding, and it subsequently became the central distribution center for fresh local fish. Prior to 1979 there was no central place to sell fish, and fishermen had to develop their own markets and peddle fish after each trip.

In 1982, WPacFIN began working with the Coop to improve their invoicing system and to obtain data on all fish purchases. A cooperative system was established whereby the Coop would use forms and coding schemes designed by WPacFIN and would supply copies of all invoices to WPacFIN for computer data entry. In return, WPacFIN would provide the Coop with document quality control and computer generated summary statistics. All purchase-data back to July 1979 were also coded and computerized. As time progressed other fish markets began to operate, and DAWR and WPacFIN staff worked with them to obtain their data via the voluntary receipt book program as well.

Although a proposed law has been introduced several times that would require reporting by dealers and possibly commercial fishermen, it has never made it very far through the legislative process and the commercial landings data collection system remains voluntary.

Data collected on commercial receipts forms include:

- Date
- Number of fishermen
- Area fished
- Number of pieces caught
- Price per pound
- Fisherman code
- Hours fished
- Species caught
- Pounds caught

## COMMERCIAL LANDINGS DATA PROCESSING SYSTEM

In earlier years data processing was done at the central WPacFIN office in Honolulu, but beginning in 1994 DAWR staff took over this task using a computer and software provided by WPacFIN. The processing system for the commercial landings data collected from the fish dealers is fairly straightforward. Dealers complete a purchase form every time they purchase fish from a fisherman. On this form, catches

### IV.3

are divided into categories for weighing by species or species group (where practicable, number of pieces is also recorded). Once all the edits, adjustments, verifications, and corrections are made, summary reports are generated. Numerous standard reports are available, but only the monthly and annual landings by species are provided in this document.

#### **COMMERCIAL LANDINGS DATA REPORTING SYSTEM**

After completing all editing, adjusting, and quality control activities for the commercial landings data, monthly and annual summary reports by species are generated. Each table contains information on the pounds, value and the average price per pound for each species or species group. Each monthly report contains a subtotal for the sum of all species combined for that month. Annual reports contain the estimated total landings for each species and the estimated total recorded landings for all species for the calendar year. Included with the estimated commercial landings summary reports are graphs of some of the important statistics.

Please note that commercial landings data have been adjusted to reflect total coverage and are referenced as “Estimated Commercial Landings” in the charts and tables. Also, some of the charts in this volume are new or modified from earlier volumes.

The following groupings of species, species categories, and abbreviations are used in the tables and graphs for Guam's commercial landings:

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

Although the Magnuson Fishery Conservation and Management Act of 1976 was amended in 1992 to include tunas in the Pacific PMUS (PPMUS), this report series will continue to specify tunas as a separate category from the PPMUS. The PMUS category in this report includes:

Mahimahi (dolphin)  
Marlin (probably all blue but possibly striped or black)  
Spearfish  
Sailfish  
Wahoo  
Sharks

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

Jacks (unclassified but excluding bigeye scad)  
Amberjack

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

- Bottom fish (unclassified)
- Ehu (red snapper)
- Gindai (flower snapper)
- Grouper
- Kalekale (pink snapper)
- Lehi (silverjaw snapper)
- Onaga (red or longtail snapper)
- Opakapaka (pink snapper)
- Uku (gray snapper)
- Emperor (mafute)

### III. Billfish

- Marlin (probably all blue but possibly striped or black)
- Spearfish
- Sailfish

### IV. Tunas

- Tunas (unclassified)
- Skipjack tuna
- Yellowfin tuna
- Dogtooth or white tuna
- Kawakawa

### V. Other Tuna

All the above tunas excluding skipjack and yellowfin tunas.

### VI. Fisheries Categories

#### A. Pelagic Species

All PMUS and tuna species plus the following:

- Troll fish (unclassified)
- Barracuda
- Rainbow runner

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### B. Bottom Fish

Same as the BMUS

### C. Reef Fish

Reef fish (unclassified)	Parrotfish
Giant wrasse	Snapper
Rabbitfish	Surgeonfish
Rudderfish	Unicornfish
Squirrelfish	Goatfish

### D. Other

Miscellaneous (unclassified)	Coconut crab
Bigeye scad	Lobster
Mullet	Shrimp
Eels	Octopus
Milkfish	Squid
Invertebrates (unclassified)	Seaweeds
Crabs (unclassified)	Imported

## INTERPRETATION OF STATISTICS

The user is reminded again to pay heed to the precautions and assumptions identified earlier in this document when making interpretations of or inferences from data reported in the tables and graphs. Remember also that the commercial landings summaries are adjusted numbers based on samples of fishing activities.

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Table IV.1.1

## Guam 2001 Estimated Commercial Landings

Species	Pounds	Value	Price/Lb.
Miscellaneous	11	\$21	\$2.00
Bigeye Scad (Atulai)	11,579	\$23,089	\$1.99
Black Jack	124	\$307	\$2.48
Jacks	2,652	\$6,344	\$2.39
Mullet	78	\$166	\$2.13
Bottom Fish	2,599	\$8,255	\$3.18
Ehu (Red Snapper)	694	\$2,767	\$3.98
Gindai (Flower Snap)	1,010	\$4,036	\$4.00
Grouper	1,679	\$4,730	\$2.82
Kalikali (Pink Snap)	2,266	\$7,149	\$3.15
Lehi (Silverjaw)	1,458	\$5,803	\$3.98
Onaga (Red Snapper)	4,013	\$17,743	\$4.42
Opakapaka (Pink Snp)	989	\$3,954	\$4.00
Uku (Gray Snapper)	822	\$2,147	\$2.61
Amberjack	524	\$1,340	\$2.56
Reef Fish	184,869	\$534,523	\$2.89
Wrasse	1,606	\$3,929	\$2.45
Rabbitfish	15	\$46	\$3.00
Emperor (Mafute)	7,083	\$19,478	\$2.75
Parrotfish	185	\$406	\$2.20
Snapper	376	\$945	\$2.51
Surgeonfish	16	\$49	\$3.00
Unicornfish	69	\$174	\$2.50
Troll Fish	451	\$878	\$1.95
Barracuda	9,577	\$20,533	\$2.14
Dolphin (Mahimahi)	117,992	\$223,995	\$1.90
Marlin	33,900	\$38,864	\$1.15
Spearfish	111	\$138	\$1.25
Sailfish	1,238	\$1,450	\$1.17
Rainbow Runner	3,727	\$8,021	\$2.15
Monchong	226	\$544	\$2.40
Wahoo	52,181	\$114,182	\$2.19
Skipjack Tuna	131,927	\$165,563	\$1.26
Dogtooth Tuna	4,596	\$5,961	\$1.30
Yellowfin Tuna	31,439	\$63,085	\$2.01
Kawakawa	3	\$4	\$1.25
Invertebrates	41	\$115	\$2.80
Crabs (Misc)	3	\$11	\$3.75
Lobster	1,296	\$4,966	\$3.83
Octopus	3,379	\$9,469	\$2.80
<b>TOTAL</b>	<b>616,805</b>	<b>\$1,305,181</b>	<b>\$2.12</b>

## IV.7

Table IV.1.2

Guam January 2001 Estimated Commercial Landings

Species	Pounds	Value	Price/Lb.
Bigeye Scad (Atulai)	216	\$606	\$2.80
Jacks	318	\$744	\$2.34
Mullet	8	\$23	\$3.00
Bottom Fish	134	\$461	\$3.45
Ehu (Red Snapper)	9	\$35	\$4.00
Gindai (Flower Snap)	27	\$108	\$4.00
Kalikali (Pink Snap)	45	\$143	\$3.16
Lehi (Silverjaw)	62	\$263	\$4.22
Onaga (Red Snapper)	709	\$2,845	\$4.01
Opakapaka (Pink Snp)	7	\$27	\$4.00
Uku (Gray Snapper)	56	\$162	\$2.87
Reef Fish	15,091	\$44,385	\$2.94
Wrasse	19	\$52	\$2.75
Barracuda	539	\$1,014	\$1.88
Dolphin (Mahimahi)	15,539	\$31,009	\$2.00
Marlin	115	\$172	\$1.50
Sailfish	120	\$150	\$1.25
Rainbow Runner	55	\$111	\$2.03
Wahoo	3,781	\$8,519	\$2.25
Skipjack Tuna	2,635	\$3,896	\$1.48
Dogtooth Tuna	235	\$333	\$1.41
Yellowfin Tuna	541	\$1,157	\$2.14
Lobster	78	\$302	\$3.87
Octopus	264	\$749	\$2.84
<b>TOTAL</b>	<b>40,602</b>	<b>\$97,266</b>	<b>\$2.40</b>

## IV.8

Table IV.1.3

## Guam February 2001 Estimated Commercial Landings

Species	Pounds	Value	Price/Lb.
Jacks	136	\$297	\$2.19
Bottom Fish	92	\$367	\$4.00
Gindai (Flower Snap)	9	\$35	\$4.00
Kalikali (Pink Snap)	11	\$39	\$3.50
Lehi (Silverjaw)	37	\$148	\$4.00
Opakapaka (Pink Snp)	8	\$33	\$4.00
Uku (Gray Snapper)	18	\$49	\$2.75
Reef Fish	12,366	\$36,586	\$2.96
Emperor (Mafute)	19	\$51	\$2.64
Barracuda	896	\$1,979	\$2.21
Dolphin (Mahimahi)	22,365	\$46,831	\$2.09
Spearfish	29	\$36	\$1.25
Sailfish	96	\$121	\$1.25
Rainbow Runner	124	\$286	\$2.30
Wahoo	2,171	\$5,214	\$2.40
Skipjack Tuna	2,886	\$4,207	\$1.46
Dogtooth Tuna	388	\$506	\$1.31
Yellowfin Tuna	771	\$1,125	\$1.46
Crabs (Misc)	3	\$11	\$3.75
Lobster	45	\$177	\$3.90
Octopus	211	\$635	\$3.02
<b>TOTAL</b>	<b>42,681</b>	<b>\$98,734</b>	<b>\$2.31</b>

## IV.9

Table IV.1.4

## Guam March 2001 Estimated Commercial Landings

Species	Pounds	Value	Price/Lb.
Bigeye Scad (Atulai)	21	\$62	\$3.00
Jacks	186	\$382	\$2.05
Bottom Fish	458	\$1,374	\$3.00
Gindai (Flower Snap)	-	\$2	\$4.00
Kalikali (Pink Snap)	12	\$43	\$3.50
Lehi (Silverjaw)	28	\$111	\$4.00
Onaga (Red Snapper)	26	\$129	\$5.00
Opakapaka (Pink Snp)	8	\$32	\$4.00
Uku (Gray Snapper)	12	\$35	\$2.85
Amberjack	15	\$45	\$3.00
Reef Fish	17,159	\$50,594	\$2.95
Wrasse	19	\$47	\$2.50
Emperor (Mafute)	41	\$117	\$2.84
Troll Fish	339	\$671	\$1.98
Barracuda	855	\$1,902	\$2.22
Dolphin (Mahimahi)	43,545	\$78,513	\$1.80
Marlin	59	\$89	\$1.50
Spearfish	49	\$62	\$1.25
Sailfish	39	\$49	\$1.25
Rainbow Runner	82	\$171	\$2.09
Monchong	156	\$391	\$2.50
Wahoo	11,381	\$26,801	\$2.35
Skipjack Tuna	5,284	\$7,247	\$1.37
Dogtooth Tuna	404	\$524	\$1.30
Yellowfin Tuna	696	\$1,310	\$1.88
Lobster	46	\$169	\$3.69
Octopus	387	\$1,062	\$2.74
TOTAL	81,309	\$171,935	\$2.11

## IV.10

Table IV.1.5

## Guam April 2001 Estimated Commercial Landings

Species	Pounds	Value	Price/Lb.
Bigeye Scad (Atulai)	1,271	\$2,413	\$1.90
Jacks	157	\$361	\$2.30
Mullet	2	\$7	\$3.00
Bottom Fish	9	\$35	\$4.00
Ehu (Red Snapper)	41	\$165	\$4.00
Gindai (Flower Snap)	27	\$108	\$4.00
Grouper	3	\$9	\$3.00
Kalikali (Pink Snap)	8	\$29	\$3.50
Lehi (Silverjaw)	18	\$73	\$4.00
Onaga (Red Snapper)	18	\$91	\$5.00
Opakapaka (Pink Snp)	34	\$136	\$4.00
Uku (Gray Snapper)	42	\$112	\$2.69
Reef Fish	14,442	\$42,355	\$2.93
Wrasse	201	\$492	\$2.44
Emperor (Mafute)	284	\$851	\$3.00
Barracuda	1,712	\$3,831	\$2.24
Dolphin (Mahimahi)	11,507	\$21,654	\$1.88
Marlin	3,715	\$4,173	\$1.12
Spearfish	14	\$18	\$1.25
Sailfish	406	\$508	\$1.25
Rainbow Runner	388	\$865	\$2.23
Monchong	38	\$85	\$2.25
Wahoo	4,108	\$9,701	\$2.36
Skipjack Tuna	14,990	\$18,523	\$1.24
Dogtooth Tuna	450	\$564	\$1.25
Yellowfin Tuna	1,582	\$3,116	\$1.97
Invertebrates	4	\$7	\$2.00
Lobster	109	\$418	\$3.83
Octopus	527	\$1,380	\$2.62
<b>TOTAL</b>	<b>56,109</b>	<b>\$112,080</b>	<b>\$2.00</b>

## IV.11

Table IV.1.6

## Guam May 2001 Estimated Commercial Landings

Species	Pounds	Value	Price/Lb.
Bigeye Scad (Atulai)	114	\$341	\$3.00
Jacks	162	\$398	\$2.46
Bottom Fish	173	\$520	\$3.00
Ehu (Red Snapper)	56	\$224	\$4.00
Gindai (Flower Snap)	66	\$264	\$4.00
Grouper	21	\$64	\$3.00
Kalikali (Pink Snap)	128	\$447	\$3.50
Lehi (Silverjaw)	40	\$160	\$4.00
Onaga (Red Snapper)	134	\$671	\$5.00
Opakapaka (Pink Snp)	294	\$1,176	\$4.00
Uku (Gray Snapper)	24	\$61	\$2.61
Amberjack	11	\$26	\$2.50
Reef Fish	20,338	\$59,754	\$2.94
Wrasse	20	\$50	\$2.50
Rabbitfish	15	\$46	\$3.00
Emperor (Mafute)	80	\$240	\$3.00
Barracuda	1,838	\$4,107	\$2.23
Dolphin (Mahimahi)	490	\$1,060	\$2.16
Marlin	4,670	\$5,263	\$1.13
Rainbow Runner	680	\$1,478	\$2.17
Wahoo	1,277	\$3,425	\$2.68
Skipjack Tuna	33,004	\$41,159	\$1.25
Dogtooth Tuna	930	\$1,219	\$1.31
Yellowfin Tuna	4,089	\$8,004	\$1.96
Invertebrates	9	\$24	\$2.50
Lobster	222	\$848	\$3.81
Octopus	403	\$1,129	\$2.80
TOTAL	69,288	\$132,158	\$1.91

## IV.12

Table IV.1.7

## Guam June 2001 Estimated Commercial Landings

Species	Pounds	Value	Price/Lb.
Bigeye Scad (Atulai)	2	\$7	\$3.00
Jacks	212	\$518	\$2.45
Bottom Fish	353	\$1,194	\$3.39
Ehu (Red Snapper)	175	\$698	\$4.00
Gindai (Flower Snap)	269	\$1,078	\$4.00
Grouper	76	\$217	\$2.86
Kalikali (Pink Snap)	389	\$1,373	\$3.53
Lehi (Silverjaw)	404	\$1,614	\$4.00
Onaga (Red Snapper)	109	\$510	\$4.69
Opakapaka (Pink Snp)	90	\$360	\$4.00
Uku (Gray Snapper)	229	\$582	\$2.54
Amberjack	174	\$471	\$2.70
Reef Fish	17,992	\$53,246	\$2.96
Wrasse	45	\$112	\$2.50
Emperor (Mafute)	708	\$2,040	\$2.88
Snapper	49	\$148	\$3.03
Troll Fish	24	\$54	\$2.25
Barracuda	1,167	\$2,626	\$2.25
Dolphin (Mahimahi)	66	\$146	\$2.22
Marlin	5,327	\$6,232	\$1.17
Sailfish	42	\$53	\$1.25
Rainbow Runner	894	\$1,950	\$2.18
Wahoo	893	\$2,157	\$2.41
Skipjack Tuna	26,885	\$33,498	\$1.25
Dogtooth Tuna	394	\$533	\$1.35
Yellowfin Tuna	7,065	\$14,601	\$2.07
Lobster	204	\$798	\$3.92
Octopus	289	\$868	\$3.00
<b>TOTAL</b>	<b>64,526</b>	<b>\$127,684</b>	<b>\$1.98</b>

## IV.13

Table IV.1.8

## Guam July 2001 Estimated Commercial Landings

Species	Pounds	Value	Price/Lb.
Jacks	209	\$492	\$2.35
Bottom Fish	225	\$676	\$3.00
Ehu (Red Snapper)	92	\$367	\$4.00
Gindai (Flower Snap)	103	\$413	\$4.00
Grouper	165	\$494	\$3.00
Kalikali (Pink Snap)	484	\$1,510	\$3.12
Lehi (Silverjaw)	253	\$1,013	\$4.00
Onaga (Red Snapper)	235	\$1,174	\$5.00
Opakapaka (Pink Snp)	222	\$889	\$4.00
Uku (Gray Snapper)	77	\$205	\$2.66
Amberjack	31	\$79	\$2.57
Reef Fish	17,528	\$51,838	\$2.96
Wrasse	106	\$293	\$2.75
Emperor (Mafute)	1,123	\$3,095	\$2.76
Barracuda	453	\$955	\$2.11
Dolphin (Mahimahi)	100	\$218	\$2.18
Marlin	6,794	\$7,276	\$1.07
Spearfish	18	\$23	\$1.25
Rainbow Runner	746	\$1,606	\$2.15
Wahoo	484	\$1,195	\$2.47
Skipjack Tuna	16,133	\$19,982	\$1.24
Dogtooth Tuna	417	\$548	\$1.31
Yellowfin Tuna	4,621	\$9,538	\$2.06
Lobster	177	\$682	\$3.85
Octopus	535	\$1,546	\$2.89
<b>TOTAL</b>	<b>51,333</b>	<b>\$106,106</b>	<b>\$2.07</b>

## IV.14

Table IV.1.9

## Guam August 2001 Estimated Commercial Landings

Species	Pounds	Value	Price/Lb.
Bigeye Scad (Atulai)	4,066	\$8,220	\$2.02
Black Jack	58	\$146	\$2.50
Jacks	187	\$494	\$2.64
Bottom Fish	100	\$317	\$3.19
Ehu (Red Snapper)	49	\$194	\$4.00
Gindai (Flower Snap)	136	\$542	\$4.00
Grouper	137	\$410	\$3.00
Kalikali (Pink Snap)	256	\$768	\$3.00
Lehi (Silverjaw)	76	\$306	\$4.00
Onaga (Red Snapper)	519	\$2,444	\$4.71
Opakapaka (Pink Snp)	29	\$118	\$4.00
Uku (Gray Snapper)	89	\$230	\$2.58
Amberjack	42	\$93	\$2.19
Reef Fish	14,609	\$42,866	\$2.93
Wrasse	183	\$486	\$2.66
Emperor (Mafute)	987	\$2,716	\$2.75
Parrotfish	72	\$145	\$2.00
Snapper	10	\$25	\$2.50
Barracuda	34	\$68	\$2.00
Dolphin (Mahimahi)	64	\$140	\$2.20
Marlin	2,364	\$2,551	\$1.08
Rainbow Runner	52	\$115	\$2.22
Wahoo	229	\$572	\$2.50
Skipjack Tuna	7,009	\$8,567	\$1.22
Dogtooth Tuna	329	\$343	\$1.04
Yellowfin Tuna	2,154	\$4,127	\$1.92
Invertebrates	28	\$85	\$3.00
Lobster	113	\$435	\$3.84
Octopus	246	\$728	\$2.97
<b>TOTAL</b>	<b>34,228</b>	<b>\$78,250</b>	<b>\$2.29</b>

## IV.15

Table IV.1.10

## Guam September 2001 Estimated Commercial Landings

Species	Pounds	Value	Price/Lb.
Miscellaneous	11	\$21	\$2.00
Bigeye Scad (Atulai)	3,515	\$6,945	\$1.98
Black Jack	42	\$104	\$2.50
Jacks	753	\$1,936	\$2.57
Mullet	68	\$136	\$2.00
Bottom Fish	826	\$2,589	\$3.13
Ehu (Red Snapper)	185	\$738	\$3.99
Gindai (Flower Snap)	230	\$919	\$4.00
Grouper	749	\$2,209	\$2.95
Kalikali (Pink Snap)	480	\$1,441	\$3.00
Lehi (Silverjaw)	318	\$1,244	\$3.92
Onaga (Red Snapper)	1,495	\$6,606	\$4.42
Opakapaka (Pink Snp)	220	\$879	\$4.00
Uku (Gray Snapper)	201	\$520	\$2.59
Amberjack	115	\$293	\$2.55
Reef Fish	17,660	\$51,594	\$2.92
Wrasse	402	\$985	\$2.45
Emperor (Mafute)	3,253	\$8,845	\$2.72
Snapper	318	\$773	\$2.43
Surgeonfish	16	\$49	\$3.00
Barracuda	495	\$974	\$1.97
Dolphin (Mahimahi)	1,532	\$2,907	\$1.90
Marlin	4,090	\$5,157	\$1.26
Sailfish	156	\$193	\$1.23
Rainbow Runner	450	\$885	\$1.97
Wahoo	5,632	\$12,758	\$2.27
Skipjack Tuna	11,878	\$14,375	\$1.21
Dogtooth Tuna	515	\$692	\$1.34
Yellowfin Tuna	4,047	\$8,297	\$2.05
Kawakawa	3	\$4	\$1.25
Lobster	149	\$569	\$3.81
Octopus	263	\$738	\$2.80
<b>TOTAL</b>	<b>60,067</b>	<b>\$136,375</b>	<b>\$2.27</b>

## IV.16

Table IV.1.11

Guam October 2001 Estimated Commercial Landings

Species	Pounds	Value	Price/Lb.
Bigeye Scad (Atulai)	998	\$1,990	\$2.00
Black Jack	12	\$29	\$2.50
Jacks	136	\$311	\$2.29
Bottom Fish	165	\$575	\$3.48
Ehu (Red Snapper)	79	\$318	\$4.00
Gindai (Flower Snap)	102	\$408	\$4.00
Grouper	456	\$1,136	\$2.49
Kalikali (Pink Snap)	377	\$1,131	\$3.00
Lehi (Silverjaw)	136	\$546	\$4.00
Onaga (Red Snapper)	455	\$1,858	\$4.09
Opakapaka (Pink Snp)	76	\$304	\$4.00
Uku (Gray Snapper)	35	\$88	\$2.53
Amberjack	88	\$211	\$2.41
Reef Fish	13,001	\$35,192	\$2.71
Wrasse	200	\$422	\$2.11
Emperor (Mafute)	230	\$614	\$2.67
Troll Fish	8	\$10	\$1.30
Barracuda	306	\$585	\$1.91
Dolphin (Mahimahi)	5,546	\$10,126	\$1.83
Marlin	3,417	\$3,887	\$1.14
Sailfish	48	\$48	\$1.00
Rainbow Runner	99	\$212	\$2.15
Monchong	32	\$68	\$2.11
Wahoo	2,782	\$5,662	\$2.04
Skipjack Tuna	3,359	\$4,315	\$1.28
Dogtooth Tuna	290	\$363	\$1.25
Yellowfin Tuna	2,076	\$4,215	\$2.03
Lobster	117	\$436	\$3.74
Octopus	108	\$272	\$2.51
<b>TOTAL</b>	<b>34,734</b>	<b>\$75,333</b>	<b>\$2.17</b>

## IV.17

Table IV.1.12

Guam November 2001 Estimated Commercial Landings

Species	Pounds	Value	Price/Lb.
Bigeye Scad (Atulai)	1,024	\$1,988	\$1.94
Black Jack	12	\$28	\$2.25
Jacks	144	\$310	\$2.15
Bottom Fish	64	\$145	\$2.25
Ehu (Red Snapper)	9	\$28	\$3.00
Gindai (Flower Snap)	41	\$159	\$3.91
Grouper	72	\$192	\$2.66
Kalikali (Pink Snap)	75	\$225	\$3.00
Lehi (Silverjaw)	86	\$325	\$3.80
Onaga (Red Snapper)	295	\$1,335	\$4.52
Uku (Gray Snapper)	39	\$103	\$2.65
Amberjack	49	\$123	\$2.52
Reef Fish	12,259	\$33,291	\$2.72
Wrasse	187	\$464	\$2.48
Emperor (Mafute)	307	\$771	\$2.51
Unicornfish	69	\$174	\$2.50
Troll Fish	66	\$115	\$1.75
Barracuda	901	\$1,732	\$1.92
Dolphin (Mahimahi)	7,294	\$12,873	\$1.76
Marlin	2,276	\$2,931	\$1.29
Sailfish	252	\$252	\$1.00
Rainbow Runner	92	\$207	\$2.24
Wahoo	13,215	\$25,763	\$1.95
Skipjack Tuna	7,466	\$9,292	\$1.24
Dogtooth Tuna	223	\$307	\$1.38
Yellowfin Tuna	2,211	\$4,460	\$2.02
Lobster	20	\$76	\$3.75
Octopus	13	\$29	\$2.23
<b>TOTAL</b>	<b>48,764</b>	<b>\$97,698</b>	<b>\$2.00</b>

## IV.18

Table IV.1.13

Guam December 2001 Estimated Commercial Landings

Species	Pounds	Value	Price/Lb.
Bigeye Scad (Atulai)	352	\$517	\$1.47
Jacks	51	\$101	\$2.00
Onaga (Red Snapper)	18	\$79	\$4.50
Reef Fish	12,424	\$32,822	\$2.64
Wrasse	224	\$526	\$2.36
Emperor (Mafute)	49	\$139	\$2.81
Parrotfish	112	\$262	\$2.33
Troll Fish	14	\$27	\$2.00
Barracuda	381	\$759	\$1.99
Dolphin (Mahimahi)	9,945	\$18,519	\$1.86
Marlin	1,074	\$1,133	\$1.06
Sailfish	76	\$76	\$1.00
Rainbow Runner	65	\$136	\$2.08
Wahoo	6,227	\$12,413	\$1.99
Skipjack Tuna	399	\$502	\$1.26
Dogtooth Tuna	20	\$30	\$1.51
Yellowfin Tuna	1,586	\$3,134	\$1.98
Lobster	15	\$54	\$3.75
Octopus	133	\$332	\$2.50
TOTAL	33,163	\$71,563	\$2.16

Figure IV.1.1

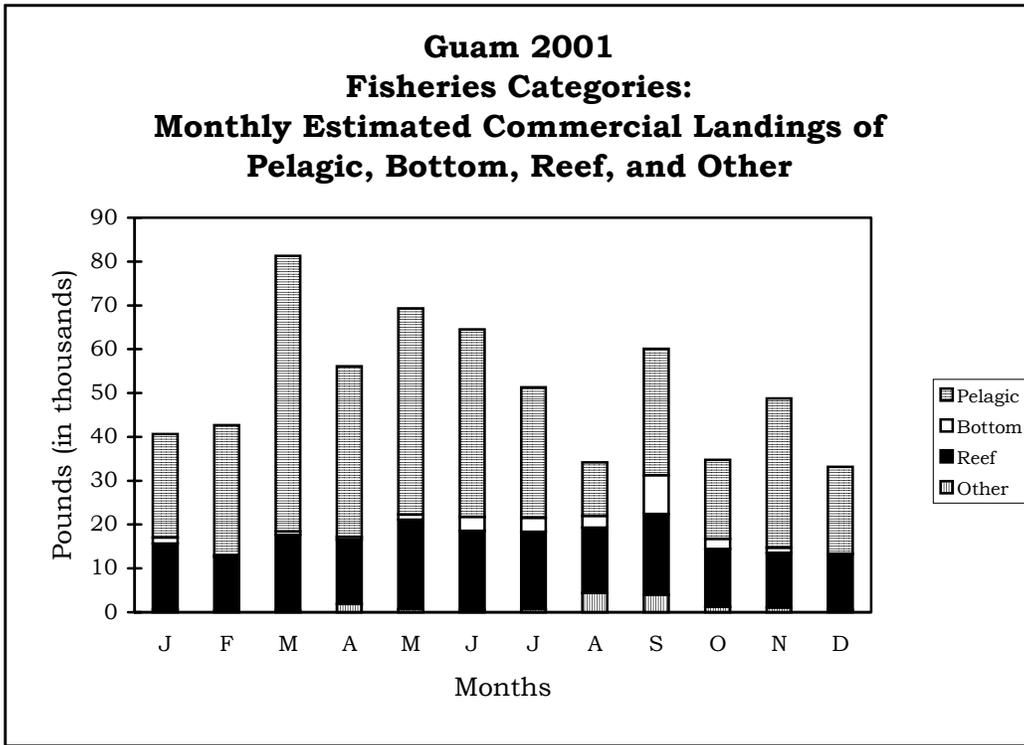


Figure IV.1.2

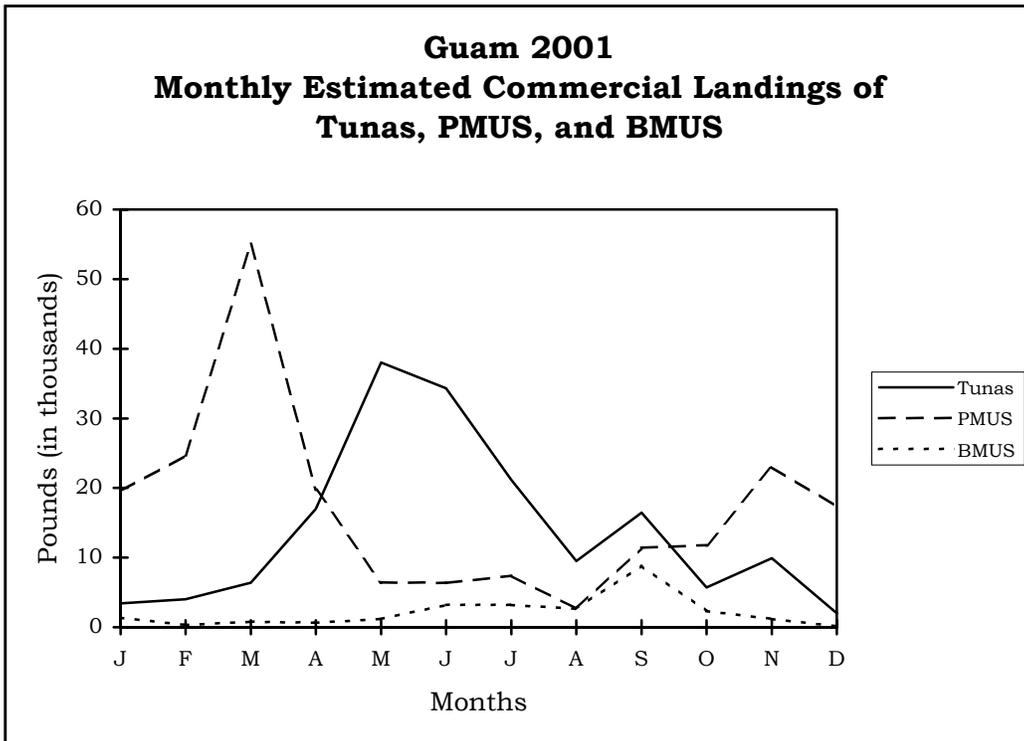


Figure IV.1.3

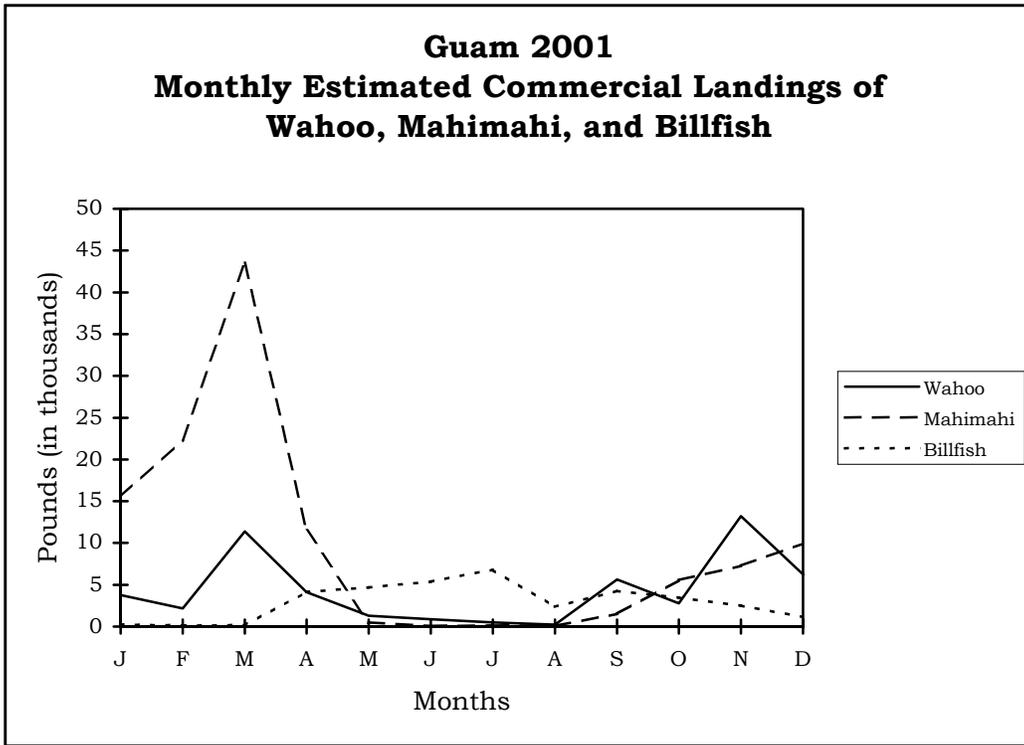


Figure IV.1.4

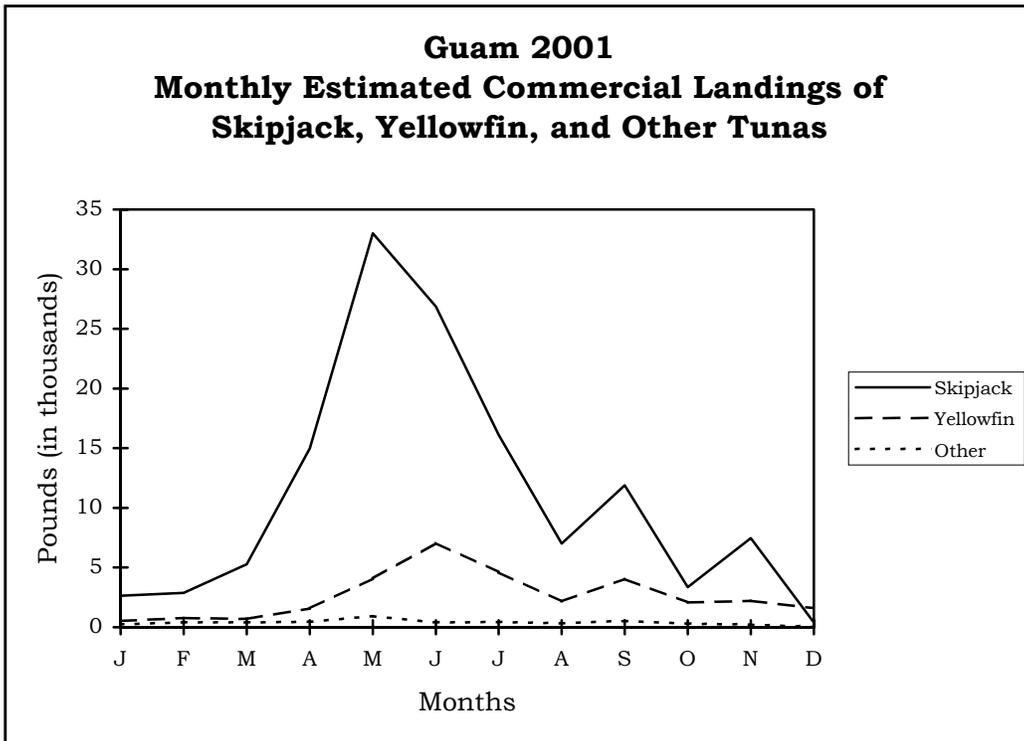


Figure IV.1.5

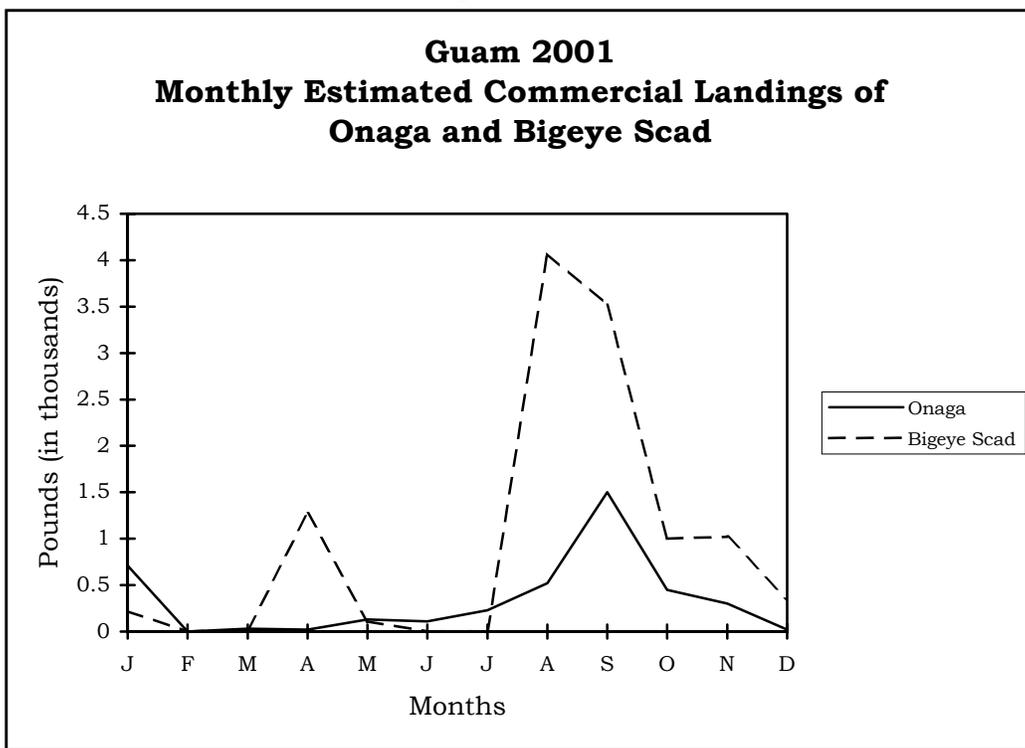


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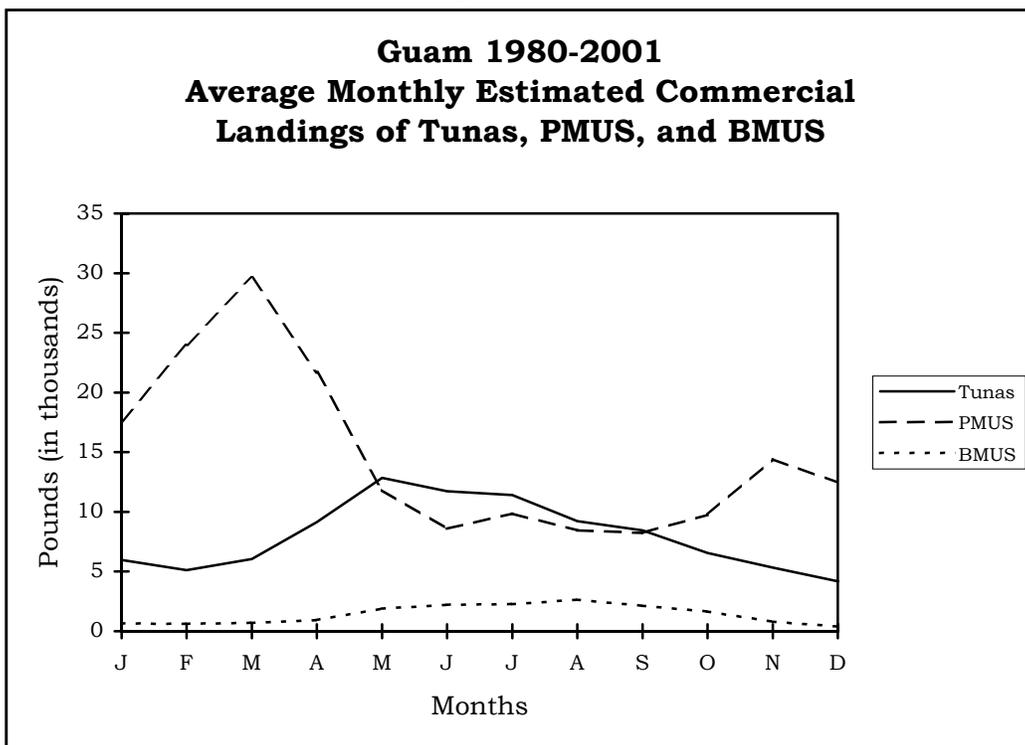


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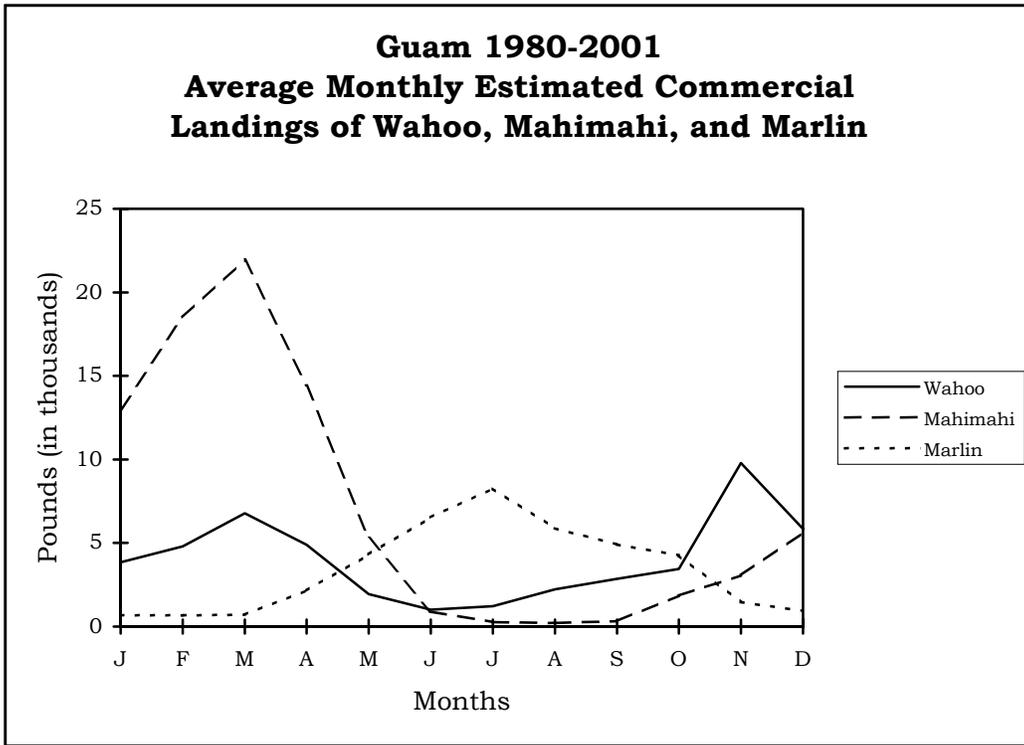


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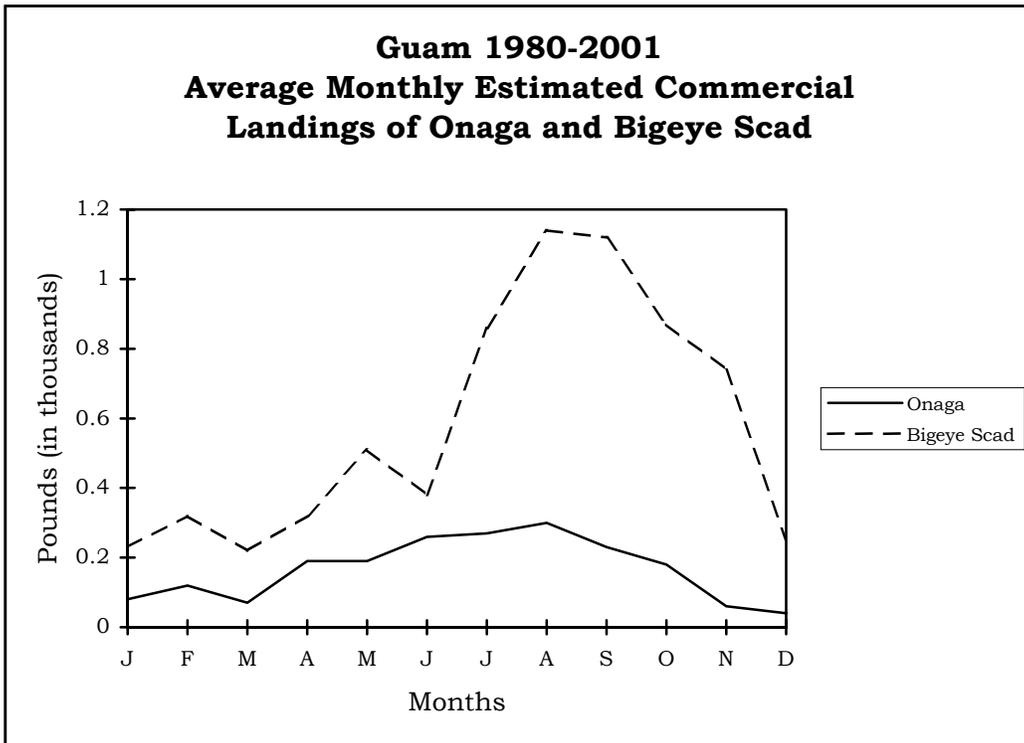


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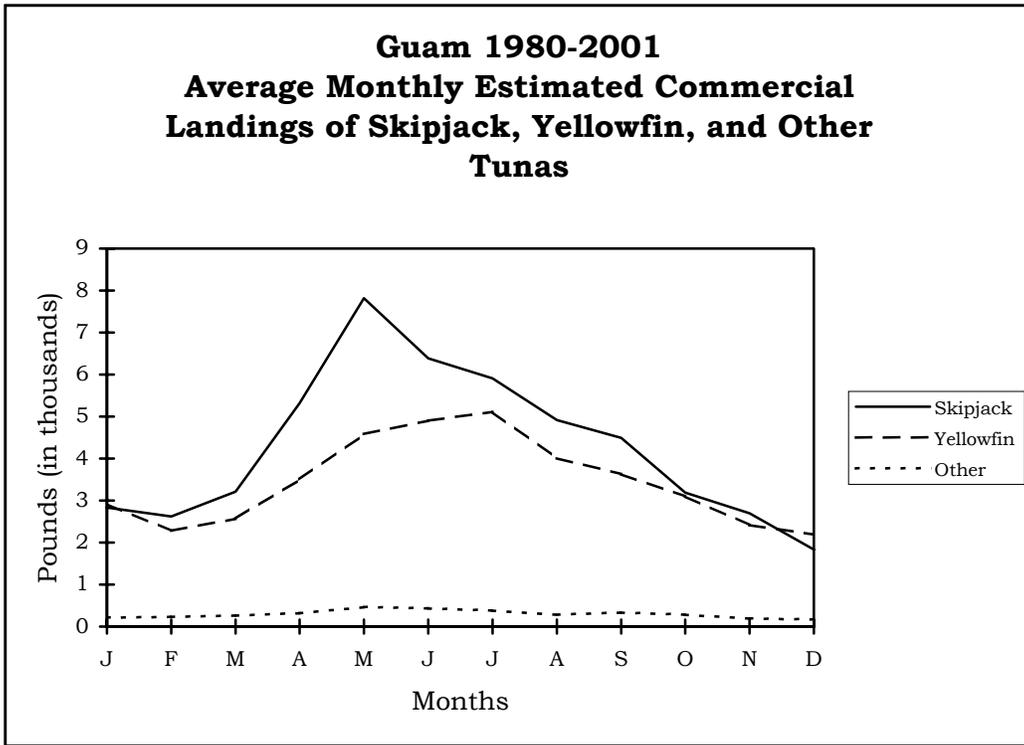


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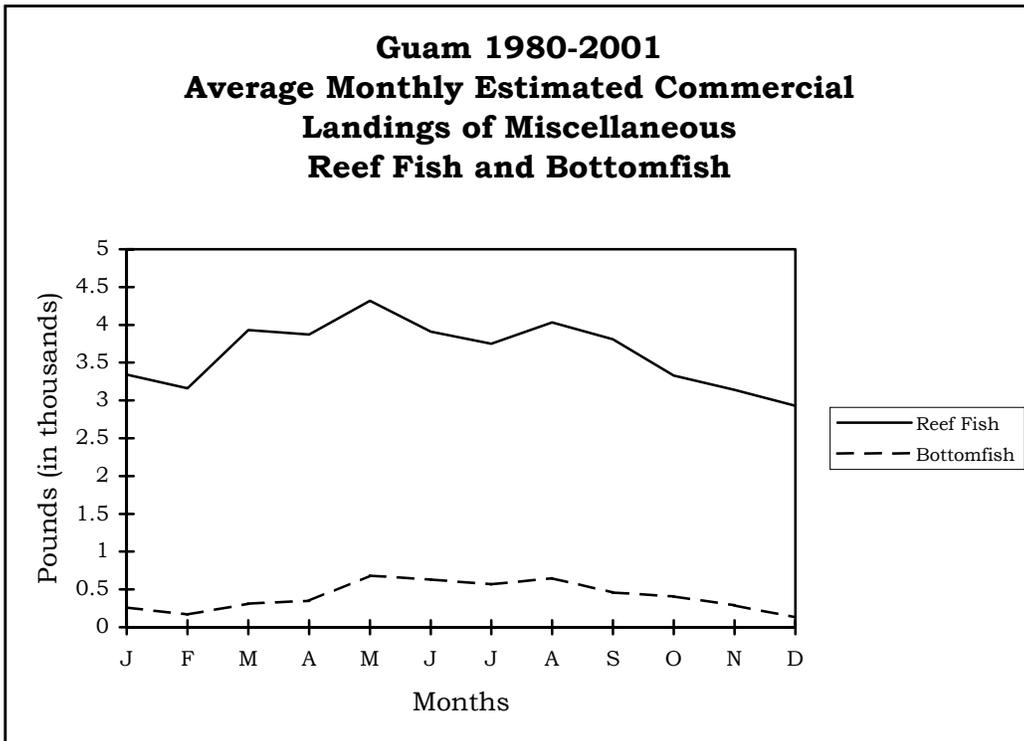


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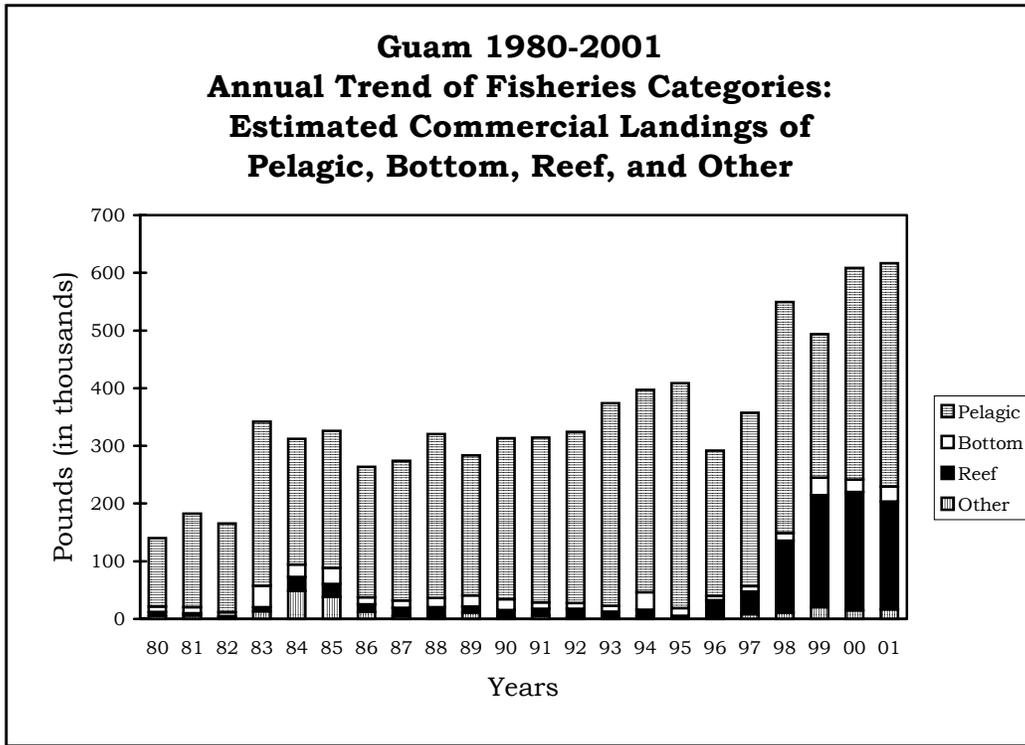


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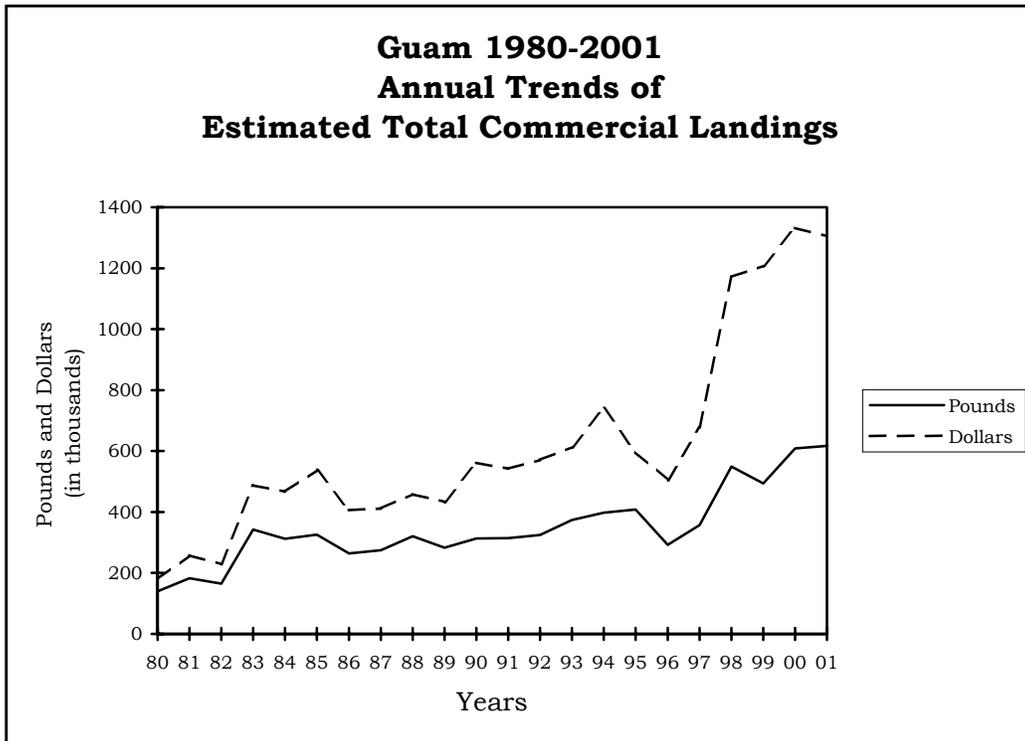


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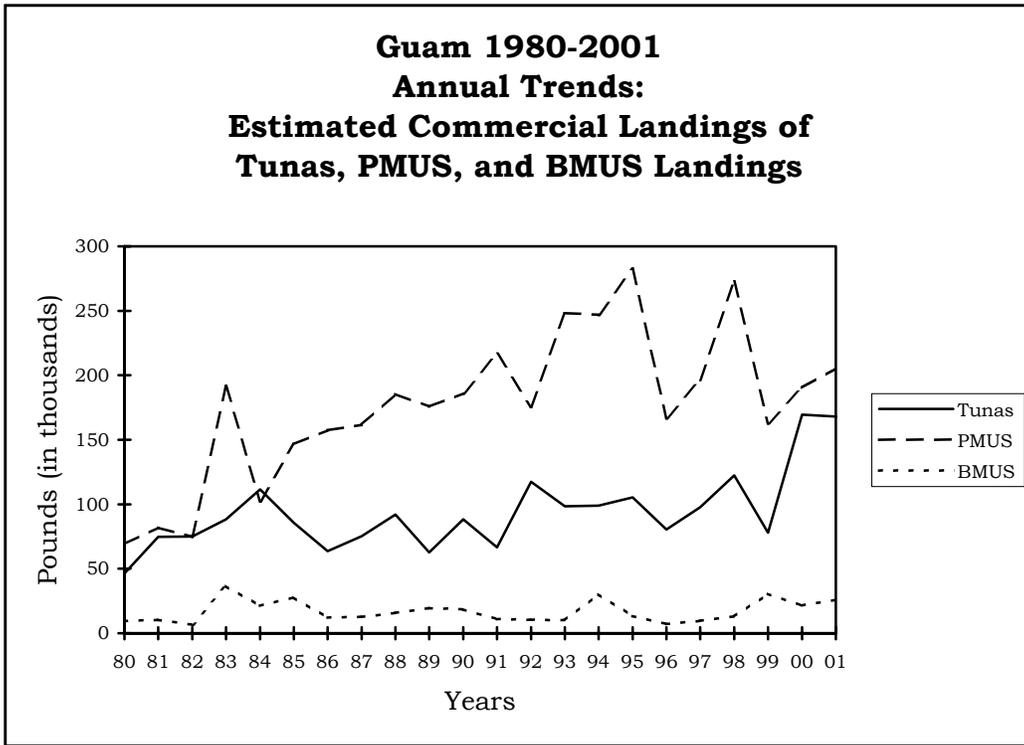


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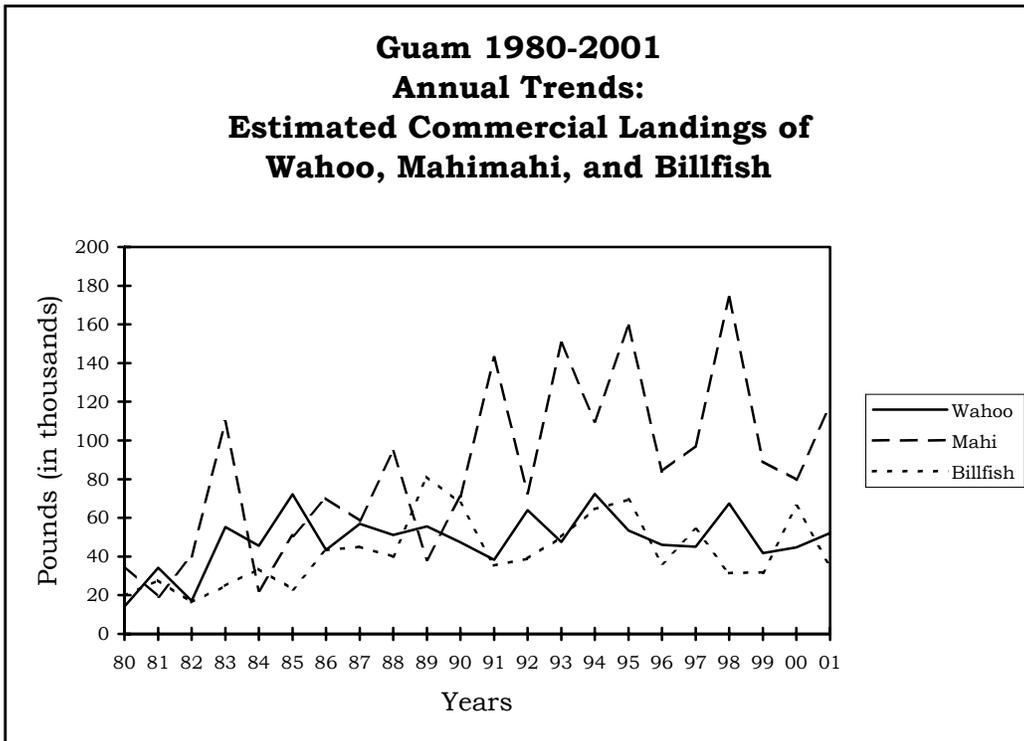


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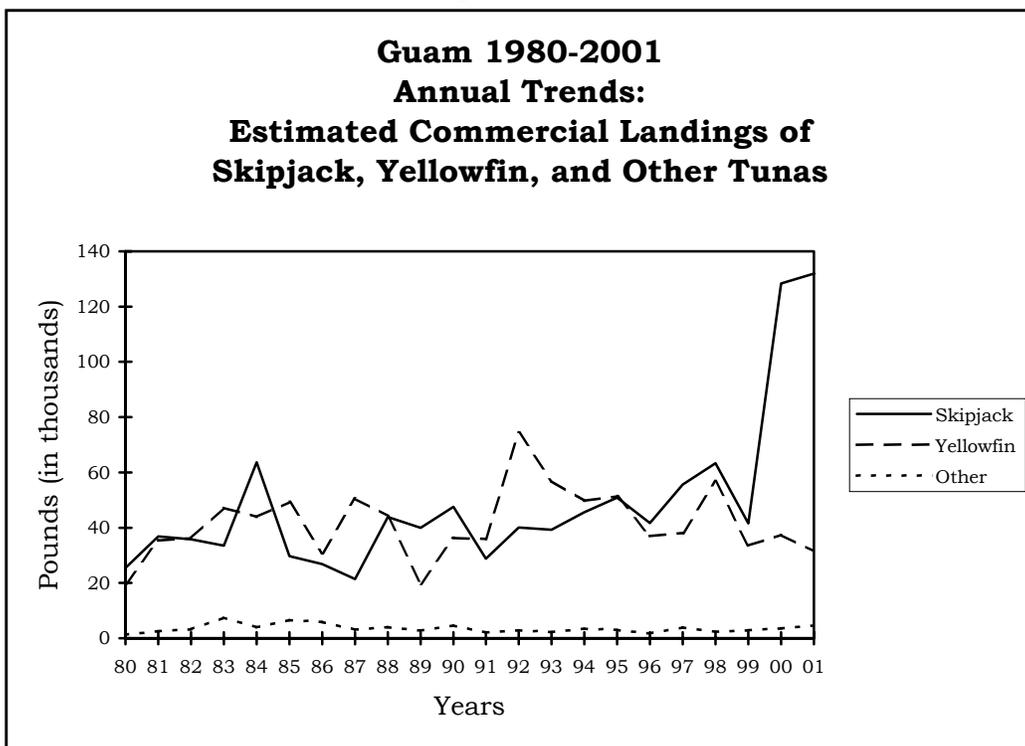


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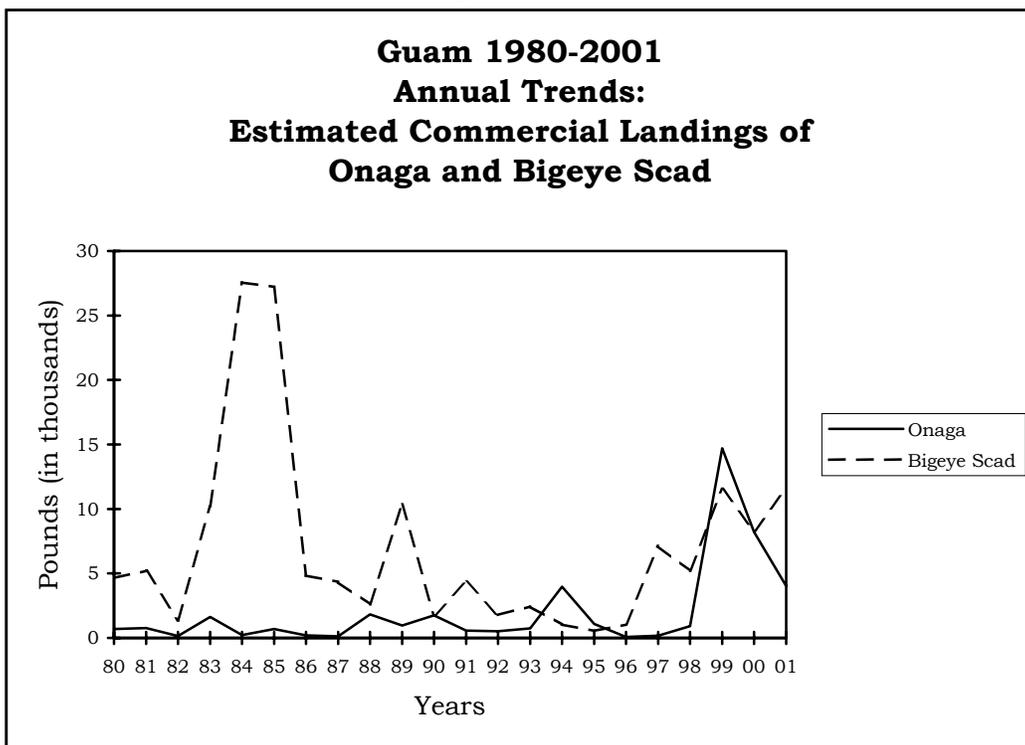


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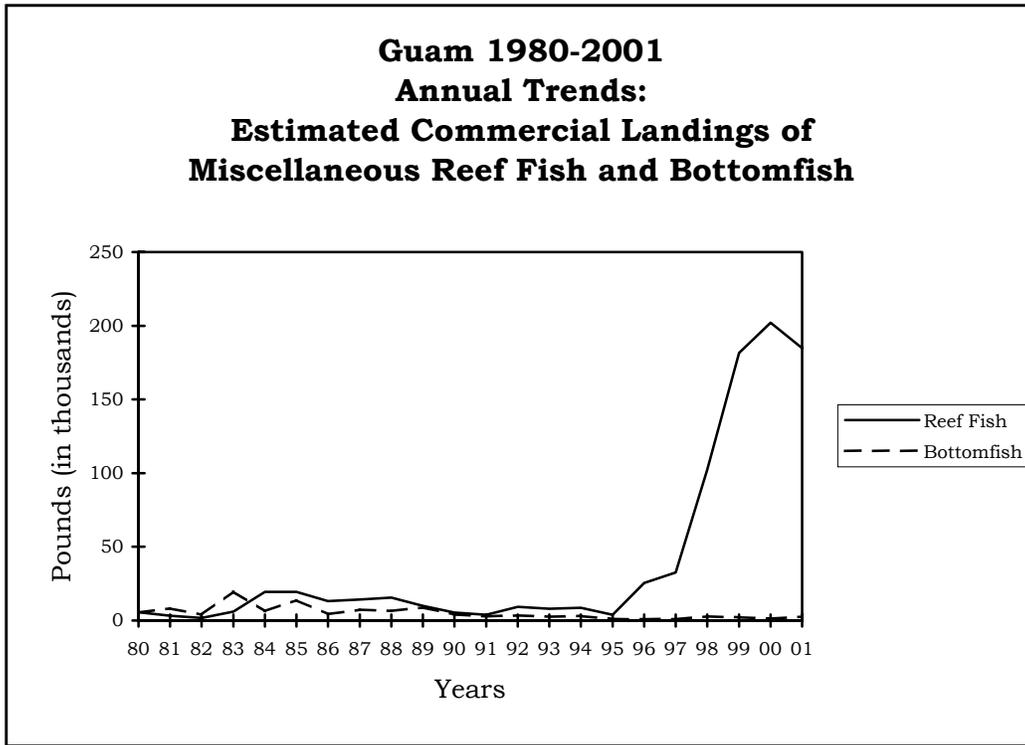


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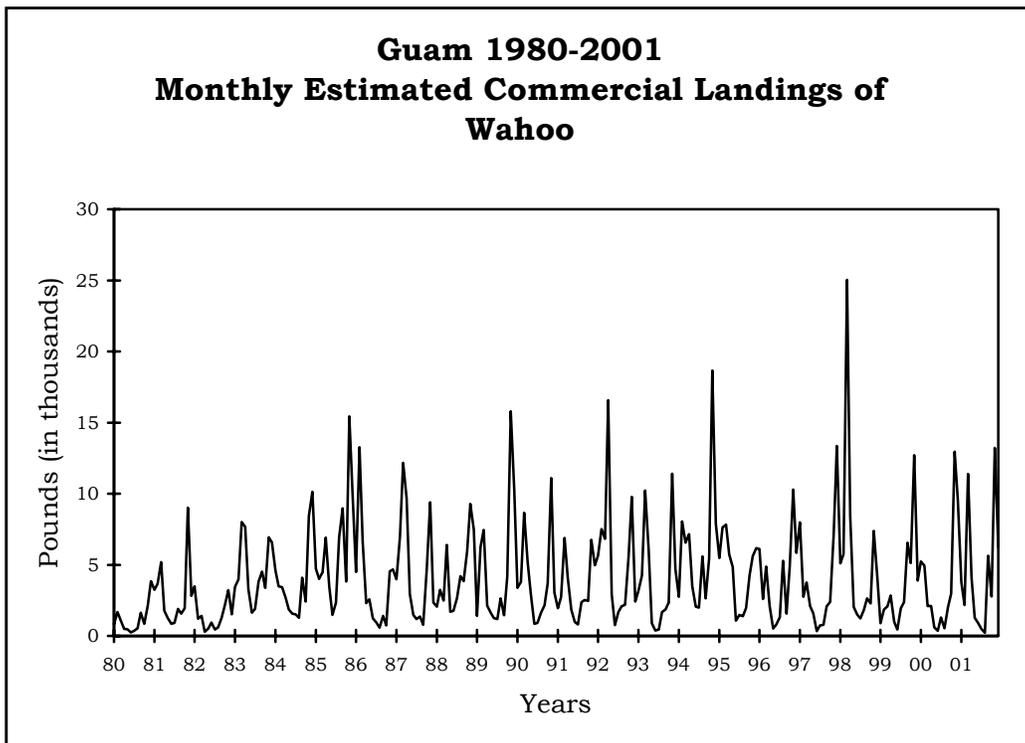


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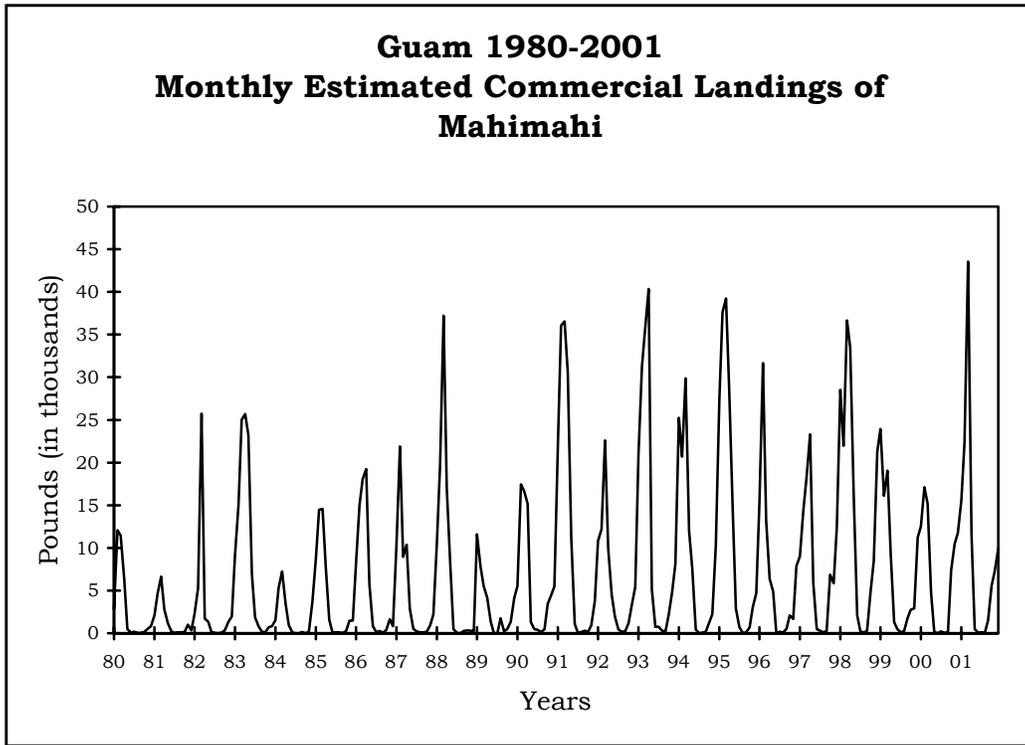


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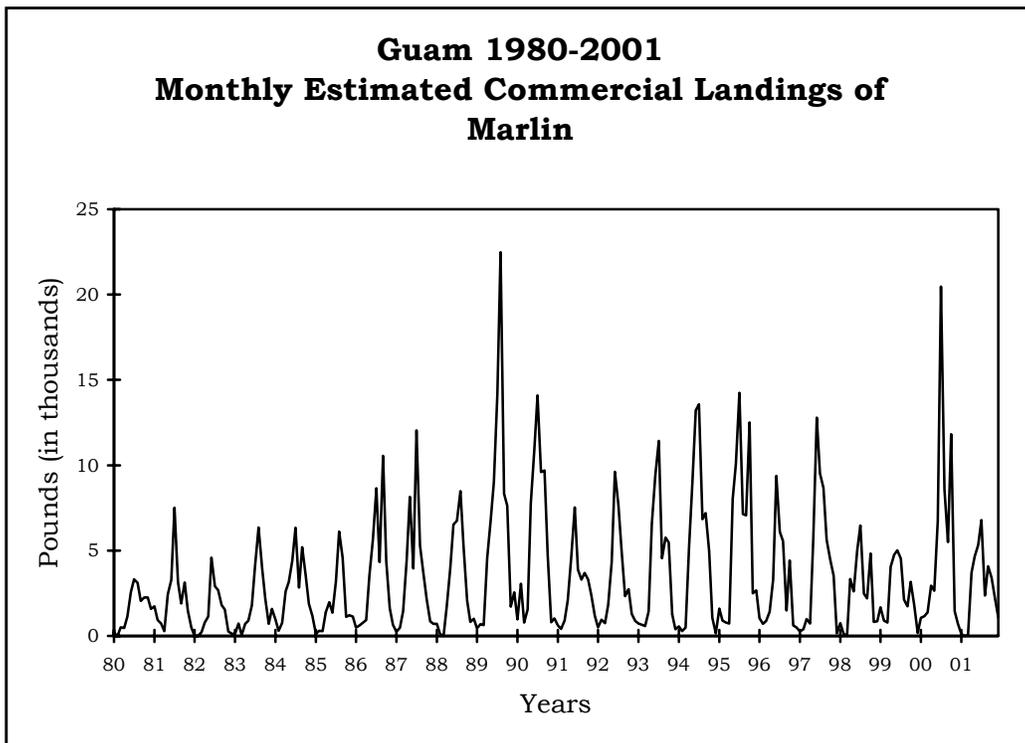


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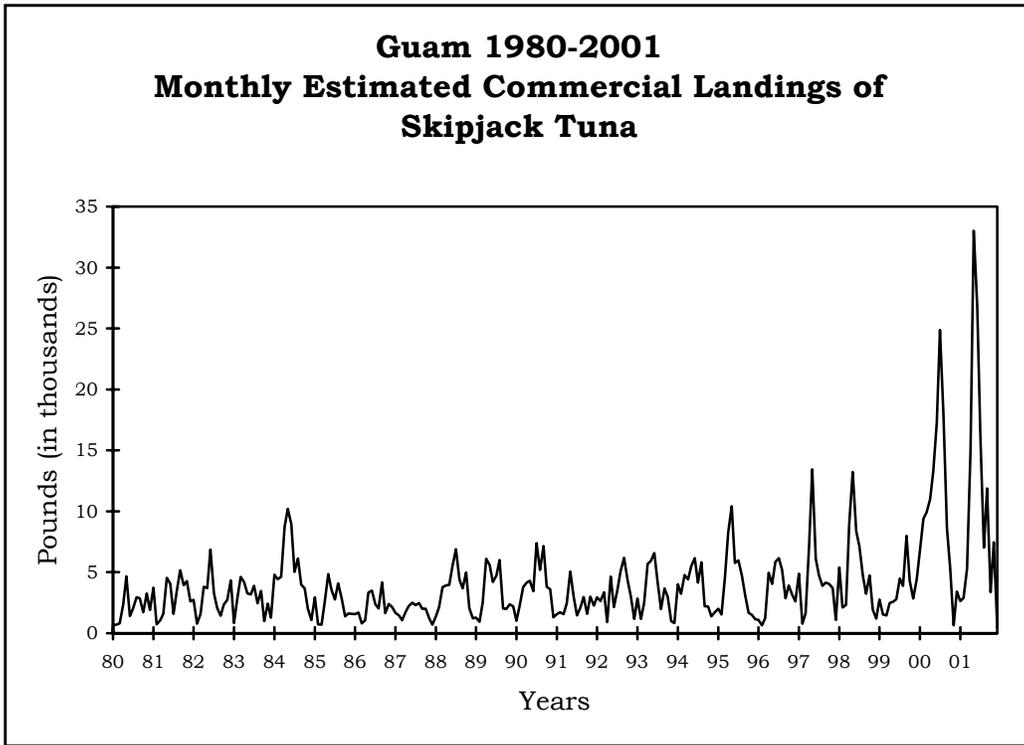


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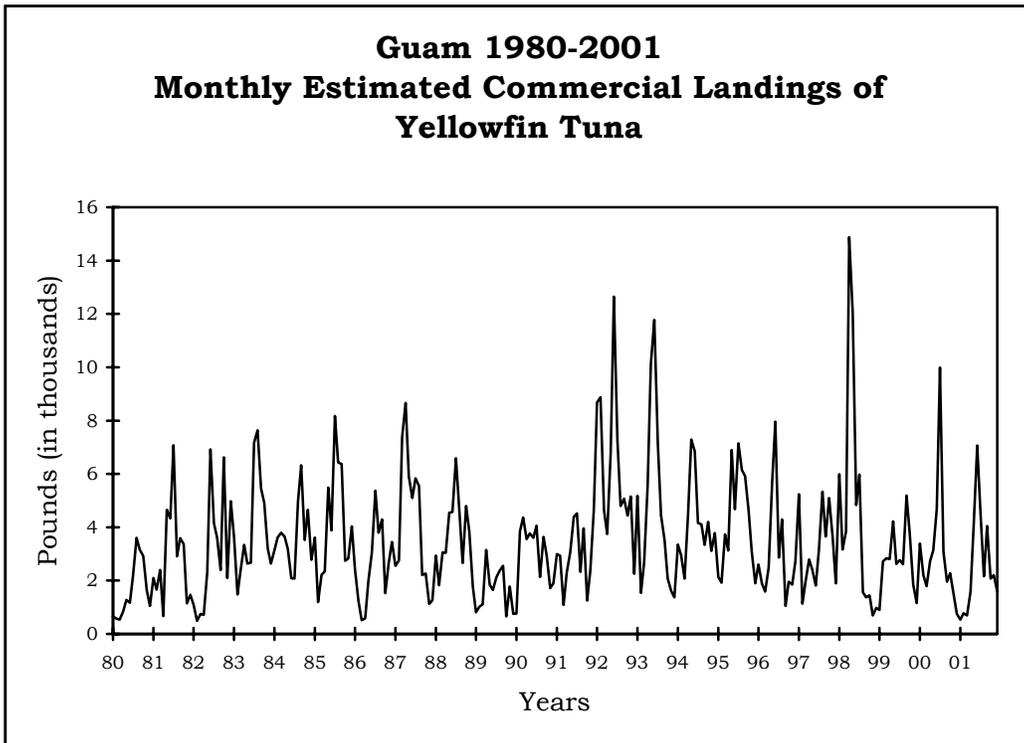


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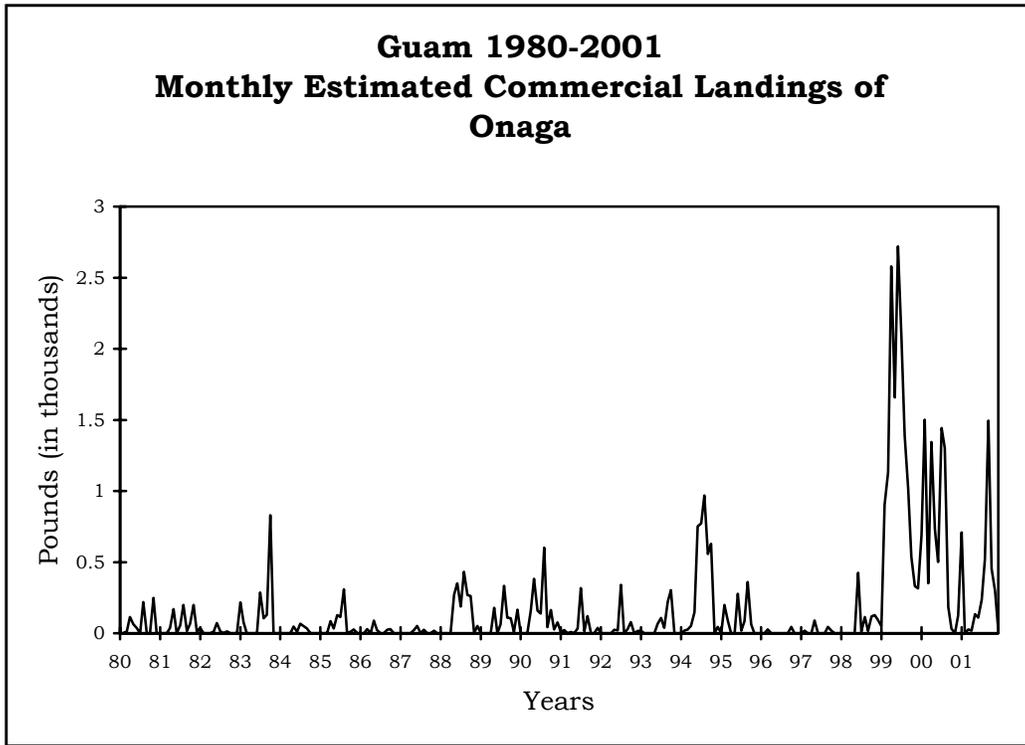


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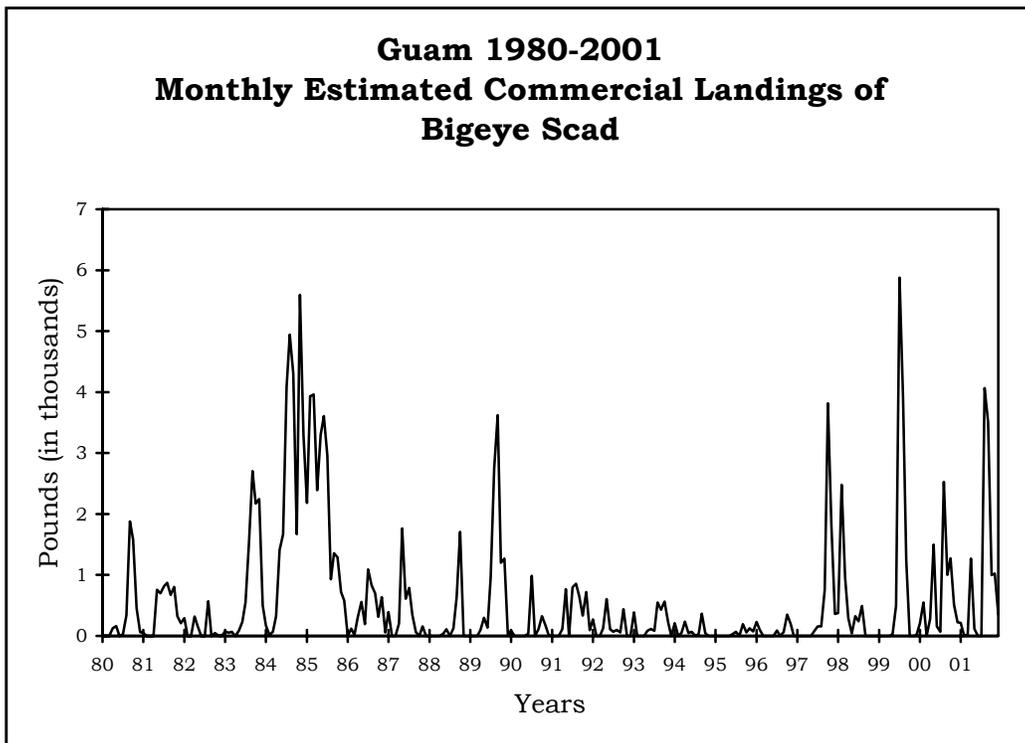


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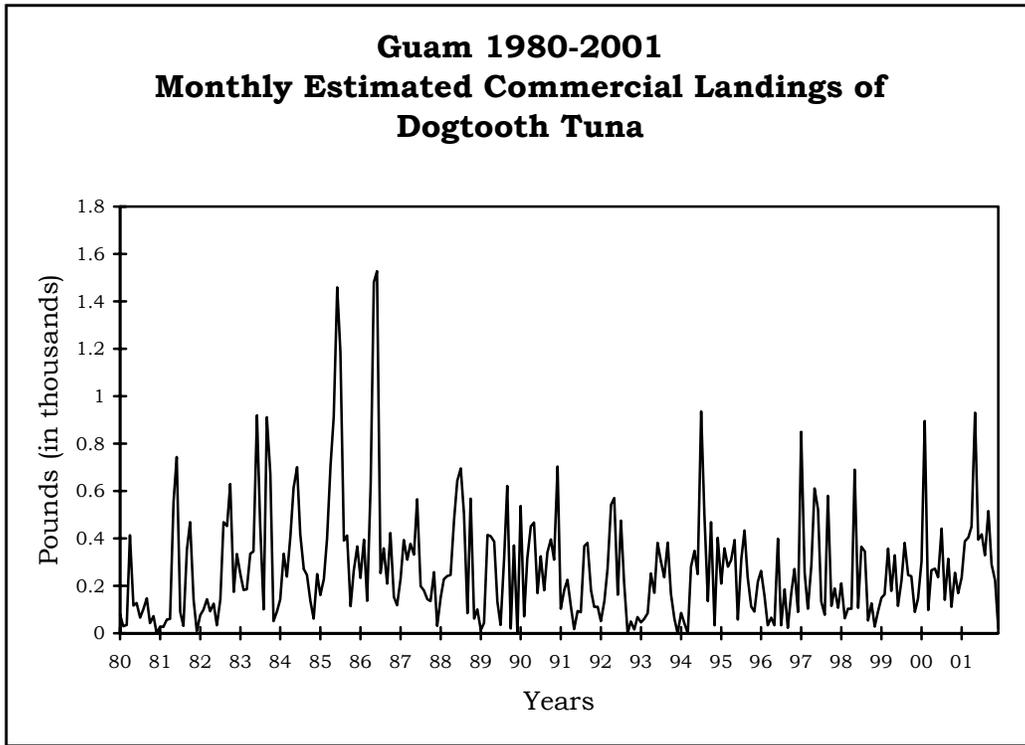


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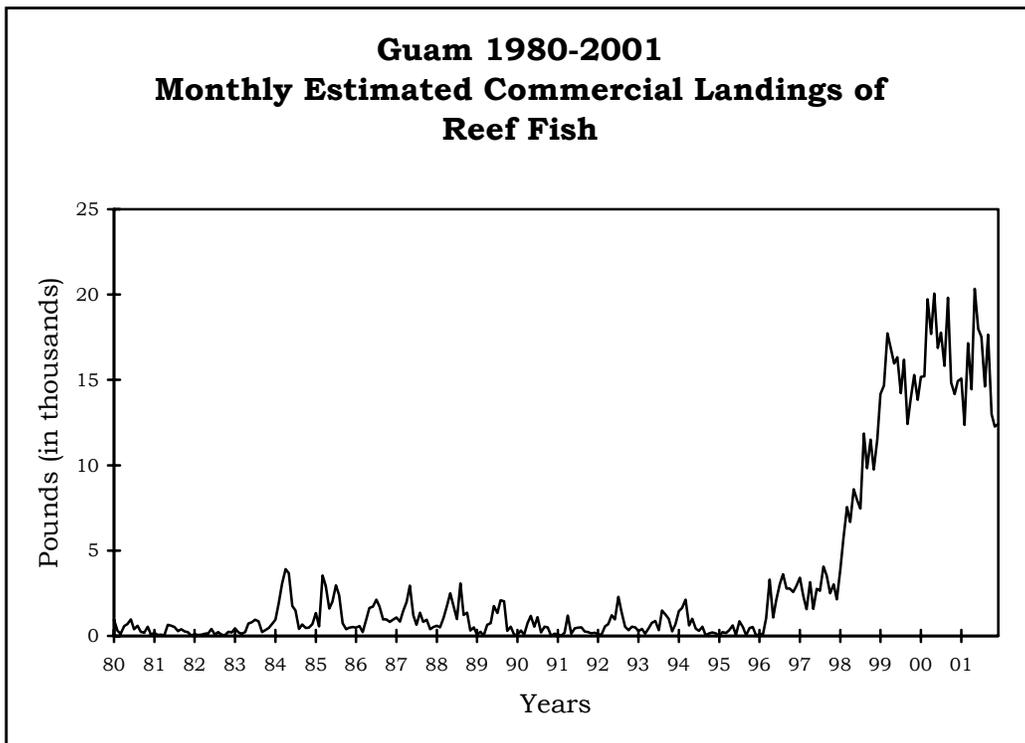


Figure IV.4.10

