S8-DW-09: An Update on the Reported Landings, Expansion Factors and Expanded Landings for the Commercial Fisheries of the United States Virgin Islands (with Emphasis on Spiny Lobster and the Snapper Complex)

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SEDAR84-RD-04

January 2024



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An Update on the Reported Landings, Expansion Factors and Expanded Landings for the Commercial Fisheries of the United States Virgin Islands (with Emphasis on Spiny Lobster and the Snapper Complex)

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Sustainable Fisheries Division Contribution SFD-2004/051

December 2004

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1. Summary

The information presented in SEDAR4-DW-08 (Valle-Esquivel and Díaz, 2003) was reviewed and updated in the present report.

An overview of the commercial fisheries of the Virgin Islands is presented. The data collection system is described and landings for years 1974-2003 are compiled and summarized. Landings and effort information have been reported in at least 3 different formats (and variations) over this period, and have been applied at different times in the 3 islands comprised in the USVI: St. Thomas, St. John, and St. Croix. Annual files were consolidated and summarized by format type and district (St. Thomas/St. John and St. Croix). Summaries include reported catch and effort by gear type or species category and year and the number of records (as a proxy for the number of trips) by year by district.

Expansion factors were calculated (or taken from annual reports) as the ratio of total number of registered fishermen and the number of reporting fishermen by year. A second expansion factor was calculated for years 1974-1985 as the number of completed reports divided by the possible number of reports (12 months*number of fishermen reporting). The first expansion factor was used to estimate total landings for years 1974-2003. Significant gaps and inconsistencies were encountered in the data sets, but this was a preliminary approach toward building a comprehensive database for the U.S.V.I. landings statistics, which can be useful for the analysis of various species groups in the future.

2. Description of the Commercial Fisheries and the Data

The commercial fisheries of the United States Virgin Islands are multi-gear and multi-species in nature. Five main gear types are used to harvest fish and shellfish species, particularly reef species and some pelagic fishes. These gears are: traps (or pots); nets (used as purse seines, beach seines, gillnets, castnets, and trammel nets); scuba gear; free diving; and hook and line gear. The reef fish harvest is composed of more than 12 families and 180 species, and the majority of offshore fisheries are composed of the Scombridae and Coryphaenidae families, with a total of 7 species.

The collection of adequate data for use in fisheries management from the multigear and multi-species fisheries in the Caribbean has been difficult. In 1974, U.S. Virgin Islands Legislative Act 3330 established a mandatory reporting system for fisheries data. At the beggining of the program, the data consisted in total landings by gear type, which had limited use for assessment and management. To improve this information, the U.S. Virgin Islands Division of Fish and Wildlife, Bureau of Fisheries (DPNR/DFW) and the National Marine Fisheries Service entered into a cooperative agreement in 1983 to obtain more detailed data.

Landings data in the U.S. Virgin Islands are collected directly by fishermen. They mail or deliver monthly reports to the DFW. All reports for the 12-month period beginning in July must be received before a commercial fishing license is renewed. DFW is responsible for entering the data and verifying it prior to submission, once a year, to the Southeast Fisheries Science Center in Miami. The Division of Fish and Wildlife maintains separate data sets for the landings made in St. Croix and the landings made in St. Thomas and St. John combined because these islands lay on different platforms and

their fisheries are not connected. Computarization of the data began in 1982 for St. Thomas/St. John and in 1983 in St. Croix.

Currently, landings statistics are available in electronic form from January 1974 through December 2003. During this period, the DFW changed the monthly reporting form three times to accommodate the level of detail necessary to assess and manage this complex fishery. Maps of the U.S. Virgin Islands and the different catch report forms are provided in Appendix A. A summary of the fields contained in each form and the years when they were applied are provided in Tables 1 and 2.

Catch records from 1974-1986 reported the landings (in pounds) per trip by category (snappers/groupers, bait fish, fin fish, lobsters, and 'other kinds', that included conch, whelk, octopus, squid, clam and oysters); gear type (hook and line, net, pot, speargun and dive), and area fished (Old Form 1 in Table 1).

From 1986 to 1994-1996 similar categories were used, but snappers/groupers were combined with the rest of the fish by gear category; conch, whelk and offshore (pelagic) fishes were given a separate field; and the distance from shore was introduced (Old Form 2 in Table 1). Many changes were incorporated to this form. Between 1986 and 1999 a "short" version was used to create the electronic database, which contained one field for the fish code, another for the gear type and a third for the total catch (Old Form 3 in Table 1). In 1993 fields for tuna, dorado, and wahoo landings were added. This form was used from 1993 to 1996 (Old Form 4 in Table 1).

In the 1994-1995 fishing year the St. Croix office introduced a New Form (Table 1) to provide better information on the composition of the commercial harvest. This Revised Form was designed to provide landings (in pounds) by family or species groups (instead of the broad categories of finfish that were used previously); the gear type used; an estimate of fishing effort (the number of gear and the estimated time in hours fished during the trip); and the distance from shore (i.e., less than 3 miles, 3 to 200 miles or greater than 200 miles). The fishing area designations and gear categories remained the same. The New, Revised or "long" form was tested by a small group of fishermen on a volunteer basis in the 1994-1995 and 1995-1996 fishing years. Its use was expanded to the entire territory in 1996.

For a long time, fishers continued to report landings data on outdated catch report forms, which resulted in the production of two or three data files per fishing year by island. Accompanying each generation of catch forms were new gear and location codes (a summary is provided in Appendix A). Because of all these changes in the reports, the data are available in separate files by fishing year (July-June), form-type and district (St. Thomas/St. John and St. Croix), resulting in multiple files for each fishing year containing different fields, gear and species categories. A summary of the information contained in each type of form is provided in Table 1. The years when each form was used are shown in Table 2.

The objectives of the State/Federal Cooperative Statistics Program for the collection of commercial fisheries landings information in the U. S. Virgin Islands are: to estimate total harvest, fishing effort, and the value of the commercial fishery; to develop an improved catch report form to record fish harvest by species group; and to maintain

the Division of Fish and Wildlife computerized commercial landings database (DFW, 2001).

The Bureau of Fisheries (Division of Fish and Wildlife) submits annual, bi-annual or three-year reports to the National Marine Fisheries Service, whereby the landings and effort for that period are summarized by gear and species categories, and by the number of fishing trips per area. A distinction is made between the 'Reported' landings and the 'Projected' landings. These are calculated by multiplying the total reported landings by the ratio of the number of licensed fishermen to the number of reporting fishermen. In some reports, 'Estimated Landings' were also calculated, based upon the number of monthly reports remitted. The total number of possible monthly reports (12 months multiplied by the number of registered commercial fishermen) is divided by the number of reports actually completed. The total reported landings are then multiplied by this ratio. This method is used to account for the fishermen who turn in only a percentage of the 12 monthly reports. Landings have thus been reported as Reported Landings, Projected Landings, and Estimated Landings.

3. Objectives

The objectives of this report are:

- i. To compile, review and summarize the information provided in the annual performance reports of the Division of Fish and Wildlife.
- ii. To consolidate the commercial landings data files by type of report, by calendar year, island, and district.
- iii. To calculate expansion factors from information provided in the performance reports.
- iv. To summarize the reported and expanded commercial landings of the U.S. Virgin Islands.
- v. To update landings to year 2003 and replace information that was re-edited by DFW in 2004.
- vi. To explore the possibility to conduct further analysis of this information.

4. Methods

4.1. Landings Statistics

The landings data were provided as separate files by fishing year from 1974-75 to 2001-2002. In some cases, landings for all islands were contained in single (annual) file; in other cases, landings from St. Thomas-St. John were included in one file for a particular year, and landings from St. Croix in a separate one. Extensive manipulation of the data sets was required to build a single database, given that the format and content of the records varied so much through time. The summaries presented here should replace those presented in Valle-Esquivel and Díaz (2003).

The SAS software version 8.0 (The SAS Institute 2000) was used to filter, edit, and organize the information. A method similar to that outlined in Valle-Esquivel (2002a, 2002b) was used to organize and analyze the information.

The aim was to assemble a single data set with one record per trip to be able to draw time-series of catch and effort by district (St. Thomas/St. John and St. Croix). The following steps summarize the process used to combine, merge, and analyze the 1974-2003 landings data of the U.S. Virgin Islands:

- 1) Data sets for years with similar or consistent formats were combined into a single data set, resulting in four distinct files. Data sets from all islands/ areas were combined. At this stage all the fields (columns) were maintained, even when some may have been incomplete or empty as changes in the format occurred. The 4 data sets were:
- i. Files from STT/STJ and STX with the old format (Old 1 in Table 1) from years 1974-75 to 1984-85 were combined.
- ii. Files with the formats Old 2 and 4 (Table 1), where the landings were collected by gear type were combined. This process included files labeled with the prefix LOG_, LOGB_, SHOR_.
- iii. The third format (Old 3) is similar to the previous one but the landings are given by species group. It contains the fish codes in one column, the gear codes in another and the landings in a third column. Records from this file were later split by fish code in order to have the landings of each fish type on a separate field as in (ii.) above and one record per trip. The files included were labeled VI_O, USVI_, STX_OLD. This set of data was combined with (ii).
- iv. Includes files in the New (or Long) format, with landings reported by species groups. The files included have labels with the suffix _R, _N, or _NEW.

These combined files were constructed by matching up as much information from the different forms as possible. Some fields were renamed and codes standardized for consistency; other fields were merged and others discarded if necessary. However, to the extent possible, as much information as possible from each file-type was preserved.

- 2) Editing of these combined data sets included cleansing errors and removing duplicates and obvious outliers. It is important to note that coding and typing errors were corrected to the extent possible, based on the lists of codes and the reports available. Some of the criteria used to edit the data were:
- An island field was assigned according to the area landed.
- Area codes were not always included, so the district was assigned based on the origin of the file.
- Duplicate records were considered those where all the fields were equal.
- Only records with no date were removed.

- Outliers were considered those observations that differed by two or more standard deviations from the annual mean by landing group (gear type or species complex). These observations were removed, while leaving the rest of the observations in multiple species records intact, unless they were outliers themselves.
- Records where all the fields but the pounds landed by species were equal were assumed to correspond to the same fishing trip. Data were grouped (merged) into a single record, by adding up the landings and keeping the rest of the fields intact.
- Records without an identification code or vessel number were assumed to correspond to one trip per record.
- To preserve as much information as possible, the summaries had to be drawn from these three separate files.
- Errors in the identification or vessel numbers could not be corrected because the fishermen lists were not available at the moment. Other coding errors (gear type, area fished, fish type, etc.) were corrected when possible.

It is evident that the criteria used in this editing and merging process may be somewhat subjective and arbitrary. However, the approach was consistent throughout the study and may be reproduced, so that any biases in the estimates may be traced. Furthermore, this study intends to provide rough approximations of fishery statistics that will be refined once the official editing of the data is completed.

The most apparent flaws in the current data sets include (but are not limited to) the following: there is an overlap in the years where different forms were used, it is unclear if data may be duplicated; fishing years 1988-89 through 1992-1993 have not been digitized entirely and some fields may be incomplete or missing; and, in general, coding errors, typos, duplicates, and other editing problems persist throughout the timeseries. DFW and SEFSC personnel are leading the editing process.

4.3. Reported Landings

Reported landings are summarized in three formats, based on the combined data sets discussed in the previous section:

- 1. Data from Old Report Form 1 (1974-1986).
- 2. Data from Old Report Forms 2,3, and 4 (1986-1999).
- 3. Data from New Report Form (1994-2002).

4.3. Expansion Factors and Expanded Landings.

No modifications were made too the expansion factors presented in Valle-Esquivel and Díaz (2003) except that EF for the latest years (2000-2003) were calculated here. The method used in the cited report is outlined below.

Two expansion factors were drawn or re-calculated from information provided in the annual performance reports from the Virgin Islands (DFW, 1990-2001). In particular, the number of fishermen and the number reports submitted were applied as follows:

The first expansion factor (EF1) is a ratio of the number of licensed fishermen to the number of fishermen that turned in catch reports (any number of reports) for that year:

The expanded (or projected) landings are estimated as:

The second expansion factor (EF2) relates to licensed commercial fishers who submitted reports. A ratio can be made based on the total number of possible monthly reports (12 reports per year* the number of fishers that submitted reports= A) divided by the number of reports actually completed (B):

$$EF2 = A/B \tag{3}$$

This could then be applied to the expanded estimate from above to adjust total landings for fishers that did not turn in catch reports:

Annual reports contained the first expansion information for years 1981 onward. Ratios for previous years were assumed equal to that of 1981, since estimates from available compliance data (1974-1986) gave disproportionate values for some years. Landings expanded in this way may be underestimated because fishermen are treated equally (as reporting fishermen) whether they submitted one or more reports per year.

Information to calculate the second ratio was sparse and therefore the total landings were not estimated, as in equation (4). Furthermore, the implicit assumption that reporting fishermen fish every month and catch the same amount every month may overestimate landings.

4.4. Catch Composition by Gear (from New Forms).

The new catch report forms include gear type and better defined species groups than previously. In an effort to understand what species were comprised in the former gear categories (from old forms), new records (years 1994-2003) were classified by gear type of gear combination. This information may be useful to understand the transition in catch report forms and to try to apply a uniform approach across years for catch-composition analyses.

5. Results

5.1. Expansion Factors.

The number of licensed and reporting fishermen by year and estimates of Expansion Factor 1 (EF1) from annual reports (DFW, 1981-2001) are given in Table 3. Data for years 1974-1979 was not available in annual reports, and calculated values (from data files) may be overestimated, so EF1 was assumed constant and equal to the first year of reported data (1979-80). This information is represented in Figure 1.

Expansion factor 2 was calculated from compliance reports for years 1974-1986 and taken from annual reports for years 1993-2003 (DFW, 1997-2001). Neither estimates nor data for years 87-92 were available. The number of reporting fishermen and reports submitted by year and values of EF2 are provided in Table 4.

5.2. Estimated Landings.

Reported and expanded (projected) total landings taken from annual performance reports of the Division of Fish and Wildlife to the National Marine Fisheries Service (DFW 1981-2001) are provided in Tables 5 and 6 and depicted in Figure 2. In those reports, landings were summarized by fishing year (that runs from July through June) and by District. Throughout this report, STT/STJ will correspond to the district of St. Thomas/St.John and STX to the district of St. Croix.

The landings and number of records estimated from the data files are summarized by calendar year, district, and the catch categories included in each type of catch report form. For each type (Old Form 1974-86, Old Form 1986-1999, New Form 1994-2003), reported and expanded landings are presented. Expanded landings were calculated from the estimated (reported) landings and the Expansion Factor 1 (EF1) shown in Table 3 for each district.

One record corresponds to a fisherman or and/or vessel id by date that fished in one district/area with one or multiple gears. One record may or may not be equivalent to a fishing trip, as identification numbers contain multiple errors or are often missing and individual fishermen could not be traced precisely. Also, records with identical information except for the number of pounds landed or the area fished could not be classified as the same or separate trips. Therefore, the number of records is a proxy of the number of trips, but these may never be known precisely unless extensive error-proofing is conducted.

The tables and figures summarizing the information from each report format include the reported and expanded total landings by district and year; the landings by catch category and district for all years combined; and the landings by year, district and category.

Landings summaries estimated from Old Forms (1974-1986) are provided in Tables 7-10 and are illustrated in Figures 3 and 4. The expanded landings of snappers and groupers by gear-type for this period are depicted in Figure 5.

Summaries from the Old Forms (1985-1999) are given in Tables 11-14 and Figures 6 and 7. Note that during this period snappers/groupers groups were not

identified and the catch categories were mostly gear-categories, except for lobster, whelk and conch that had separate fields in the forms.

Summaries from the New Forms (1994-2003) are given in Tables 15-18 and Figures 8 and 9. The expanded snapper and grouper landings are illustrated in Figure 10. The proportion of landings by species category and gear type for this period is provided in Tables 19 and 20 and depicted in Figure 11. Figures 12, 13, and 14 represent the proportion of snapper, grouper, and spiny lobster landings by gear category for the whole period (1994-2002) and by year.

The summary from all forms combined, showing the reported and expanded total landings by year and district is given in Table 21 and illustrated in Figure 15. A comparison of the expanded landings estimated in this study and the "Projected Landings" from the annual DFW reports (DFW, 1980-2001) is represented in Figure 16 with information drawn from Tables 6 and 21. The total reported and expanded spiny lobster landings (1974-2003) by district are provided in Table 22 and Figure 17.

ACKNOWLEDGMENTS

We gratefully acknowledge the U.S. Virgin Islands/NOAA Fisheries Cooperative Statistics Program that provided all the data and annual reports used in this study. In particular, Dr. Barbara Kojis and Dr. Roger Uwate from of the Bureau of Fisheries, Division of Fish and Wildlife, kindly provided all the information requested. The Caribbean Fishery Management Council contributed with other pertinent documentation. John Poffenberger and Josh Bennett compiled and organized the information at the SEFSC and served as a liaison between NOAA and the DFW.

Funds in support of this work were provided by the University of Miami and NOAA Fisheries through the Cooperative Unit for Fisheries and Education Research of the Cooperative Institute of Marine and Atmospheric Research.

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Table 1. Fields contained in the different catch report forms used in the U.S. Virgin Islands between years 1974-2003.

1	2	3	4	5
OLD FORM (1)	OLD FORM (2)	OLD FORM (3) (Short)	OLD FORM (4)	NEW FORM (Revised)
(1974-1985)	(1986-1999)	(1988-1992)	(1992-1999)	(1994-2003)
1. ID#	1. LOCATION	1. ID CODE	1. ID CODE	1. GEAR TYPE
2. LAST NAME	2. FISHERMEN #	2. CLASS	2. FISHED (yes/no)	2. GEAR NO.
3. FIRST NAME	3. VESSEL#	3. ISLE: St. Croix	3. TRIP DATE	3. AREA FISHED
4. BOAT LICENSE	4. DATE	St. Thomas/ St. John	4. POT FISH	4. HOURS FISHED
5. FISHING LICENSE	5. POTFISH	4. TRIP DATE	5. POTS	5. GROUPED
6. DATE	6. NETFISH	5. FISH CODE:	6. HOOK FISH	6. SNAPPER
7. # OF HELPERS	7. HOOKFISH	Bait (B), Conch (C)	7. NET FISH	7. GRUNT
8. POT FISH SNAPPER				
GROUPER	8. SPEAR GUN	Finfish (S), Lobster (L),	8. SPEARGUN	8. JACK
9. POT FISH ALL OTHERS 10. NET FISH SNAPPER	9. POT LOBSTER	Whelk (W), Other(Z)	9. POT LOBSTER	9. SURGEON
GROUPER	10. DIVED LOBSTER	6. GEAR CODE:	10. DIVED LOBSTER	10. PARROT
11. NET FISH ALL OTHERS	11. CONCH	Diving (D), Hook& Line (H)	11. CONCH	11. SHELLFISH
12. HOOK FISH SNAPPER				
GROUPER	12. WHELK	Net (N), Pot or trap (P).	12. WHELK	12. TRIGGER
13. HOOK FISH ALL OTHERS		7.NO. POTS	13. BAITFISH	13. BARRA
14. SPEAR/GUN FISH		7.NO. FO13	13. DALIFIGH	15. BARRA
SNAPPER GROUPER		8. NO. SPEAR GUNS (S_G)	14. FISH AREA	14. GOAT
15. SPEAR/GUN FISH ALL		\ _ /	15. DISTANCE FROM	
OTHERS		9. NO. OTHER GEAR	SHORE (> 3 miles)	15. MACKEREL
16. LOBSTER BY POT		10. FISH AREA	16. TUNA	16. OFFSHORE (D/T/W)
17. LOBSTER BY HAND			17. DORADO	17. FAD
18.OTHER KINDS CONCH,				
WHELK, OCTOPUS,				
SQUID, CLAM, OYSTERS			18. WAHOO	18. BAITFISH
19.AREA				19. LOBSTER
20. NOTES				20. CONCH MEAT
				21. WHELK MEAT
				22. DISTANCE FR LAND

Table 2. Catch report form used by fishing year in the U.S. Virgin Islands. Please refer to Table 1 and Appendix A to see the fields contained in each type of form.

FISHING YEAR	CATCH REPORT FORM USED			
	St.Thomas/St. John	St. Croix		
1974-1975	Old(1)	Old(1)		
1975-1976	Old(1)	Old(1)		
1976-1977	Old(1)	Old(1)		
1977-1978	Old(1)	Old(1)		
1978-1979	Old(1)	Old(1)		
1979-1980	Old(1)	Old(1)		
1980-1981	Old(1)	Old(1)		
1981-1982	Old(1)	Old(1)		
1982-1983	Old(1)	Old(1)		
1983-1984	Old(1)	Old(1)		
1984-1985	Old(1)	Old(1)		
1985-1986	Old(1)	Old(1)		
1986-1987	Old(2)	Old(2)		
1987-1988	Old(2,3)	Old(2,3)		
1988-1989	Old(2,3)	Old(2,3)		
1989-1990	Old(2,3)	Old(2,3)		
1990-1991	Old(2,3)	Old(2,3)		
1991-1992	Old(2,3)	Old(2,3)		
1992-1993	Old(2,3)	Old(2,3,4)		
1993-1994	Old(4)	Old(4), New		
1994-1995	Old(4)	Old(4), New		
1995-1996	Old(4)	Old(4), New		
1996-1997	Old(4)	Old(4), New		
1997-1998	Old(4), New	Old(4), New		
1999-2000	Old(4), New	New		
2000-2001	New	New		
2001-2002	New	New		

Table 3. U.S. Virgin Islands. Number of licensed and reporting fishermen by year, percent reporting and estimates of Expansion Factor 1 from annual reports (DFW, 1981-2001). Data for years 1974-1979 (shaded) was assumed constant and equal to the first year of reported information (1979-80). Shaded areas correspond to raw data from annual files. EF1 for FY 1999-00 to 2002-03 were not available, and were calculated as the average of the previous 3 FY (1996-97 to 1998-99).

	4			•						Expansion F	actor1	
FISHING	No.Licensed			No.Fishers R			% Fishers Re	-		(EF1=Licensed/l		
YEAR	STT/STJ	STX	TOTAL	STT/STJ	STX	TOTAL	STT/STJ	STX	TOTAL	STT/STJ	STX	TOTAL
1974-75	230	227	457	72		72	31%		31%	2.35	3.13	2.60
1975-76	312	197	509	30	41	71	10%	21%	14%	2.35	3.13	2.60
1976-77	621	225	846	74	48	122	12%	21%	14%	2.35	3.13	2.60
1977-78	162	103	265	111	19	130	69%	18%	49%	2.35	3.13	2.60
1978-79	161	121	282	131	48	179	81%	40%	63%	2.35	3.13	2.60
1979-80	212	143	355	143	20	163	67%	14%	46%	2.35	3.13	2.60
1980-81	258	163	421	110	52	162	43%	32%	37%	2.35	3.13	2.60
1981-82	256	322	578	122	94	216	48%	29%	38%	2.10	3.43	2.68
1982-83	259	195	454	132	91	223	51%	47%	49%	1.96	2.14	2.04
1983-84	255	182	437	149	139	288	58%	76%	67%	1.71	1.31	1.52
1984-85	255	182	437	159	160	319	62%	88%	75%	1.60	1.14	1.37
1985-86	330	206	536	137	139	276	42%	67%	54%	2.41	1.48	1.94
1986-87	329	200	529	135	88	223	41%	44%	43%	2.44	2.27	2.37
1987-88	306	217	523	131	113	244	43%	52%	47%	2.34	1.92	2.14
1988-89	237	188	425	165	123	288	70%	65%	68%	1.44	1.53	1.48
1989-90	198	206	404	106	84	190	54%	41%	47%	1.87	2.45	2.13
1990-91	182	188	370	131	93	224	72%	49%	61%	1.39	2.02	1.65
1991-92	231	197	428	160	116	276	69%	59%	65%	1.44	1.70	1.55
1992-93	212	197	409	186	170	356	88%	86%	87%	1.14	1.16	1.15
1993-94	233	241	474	149	188	337	64%	78%	71%	1.56	1.28	1.41
1994-95	204	193	397	163	188	351	80%	97%	89%	1.25	1.03	1.13
1995-96	182	180	362	149	174.6	323.6	82%	97%	89%	1.22	1.03	1.12
1996-97	131	212	343	124	210	334	95%	99%	97%	1.06	1.01	1.03
1997-98	153	216	369	138	208	346	90%	96%	93%	1.11	1.04	1.07
1998-99	143	206	349	136	200	336	95%	97%	96%	1.05	1.03	1.04
1999-00										1.07	1.03	1.04
2000-01										1.07	1.03	1.04
2001-02										1.07	1.03	1.04
2002-03										1.07	1.03	1.04

Table 4. U.S. Virgin Islands. Expansion Factor2 estimated from compliance reports for years 1974-1986 and taken from annual reports for years 1993-99 (DFW, 1997-2001). Estimates for FY 87-92 were not available. ExpReports = expected number of reports (Nreports) from reporting fishermen (Nfishers) (ExpReports=12 months* Nfishers per fishing year).

		Expansion	n Factor 2	}		
				Expected		
				Reports	% of Exp	
District	Year	Nfishers	Nreports	(12*Nfishers)	Reports	EF2
STT/STJ	1974-75	72	463	864	53.6%	1.87
	1975-76	30	146	360	40.6%	2.47
	1976-77	74	666	888	75.0%	1.33
	1977-78	111	953	1332	71.5%	1.40
	1978-79	131	1065	1572	67.7%	1.48
	1979-80	143	1284	1716	74.8%	1.34
	1980-81	118	1059	1416	74.8%	1.34
	1981-82	122	1078	1464	73.6%	1.36
	1982-83	161	1455	1932	75.3%	1.33
	1983-84	138	1445	1656	87.3%	1.15
	1984-85	157	1568	1884	83.2%	1.20
	1985-86	189	1994	2268	87.9%	1.14
	1992-93	169	1701	2028	83.9%	1.19
	1993-94					1.17
	1994-95					1.22
	1995-96					1.10
	1996-97					1.03
	1997-98					1.20
	1998-99					1.20
	1999-00	138	1553	1656	93.8%	1.07
	2000-01	151	1681	1812	92.8%	1.08
	2001-02	167	1937	2004	96.7%	1.03
	2002-03	152	1732	1824	95.0%	1.05

•				Expected		
				Reports	% of Exp	
District	Year	Nfishers	Nreports	(12*Nfishers)	Reports	EF2
STX	1974-75					
	1975-76	41	393	492	79.9%	1.25
	1976-77	48	558	576	96.9%	1.03
	1977-78	19	168	228	73.7%	1.36
	1978-79	48	462	576	80.2%	1.25
	1979-80	20	131	240	54.6%	1.83
	1980-81	31	314	372	84.4%	1.18
	1981-82	64	626	768	81.5%	1.23
	1982-83	98	930	1176	79.1%	1.26
	1983-84	104	1118	1248	89.6%	1.12
	1984-85	124	1266	1488	85.1%	1.18
	1985-86	23	38	276	13.8%	7.26
	1992-93	146	1376	1752	78.5%	1.27
	1993-94	193	1814	2316	78.3%	1.28
	1994-95					1.37
	1995-96					1.59
	1996-97					1.37
	1997-98					1.23
	1998-99					1.80
	1999-00	161	1768	1932	91.5%	1.09
	2000-01	161	1842	1932	95.3%	1.05
	2001-02	201	2314	2412	95.9%	1.04
	2002-03	196	2172	2352	92.3%	1.08

Table 5. Reported total landings from annual performance reports (DFW,1981-2001). STT/STJ= St. Thomas/St. John, STX= St. Croix. Fishing years run from July one year through June the following year. Statistics for recent years are no longer provided in the corresponding reports (2001-2003).

Reported Total Landings						
Fishing Year	STT/STJ	STX	TOTAL			
1980-81	410,008	101,618	511,626			
1981-82	506,178	262,118	768,296			
1982-83	482,388	182,580	664,968			
1983-84	564,454	364,587	929,041			
1984-85	543,634	364,162	907,796			
1985-86	593,044	392,969	986,013			
1986-87	538,824	272,980	811,804			
1987-88	492,997	175,547	668,544			
1988-89	766,027	398,957	1,164,984			
1989-90	466,550	236,366	702,916			
1990-91	641,356	481,871	1,123,227			
1991-92	728,089	502,657	1,230,746			
1992-93	778,386	322,642	1,101,028			
1993-94	743,179	666,009	1,409,188			
1994-95	775,734	585,808	1,361,542			
1995-96	561,073	399,121	960,194			
1996-97	823,964	433,915	1,257,879			
1997-98	728,699	714,608	1,443,307			
1998-99	583,788	607,665	1,191,453			

Table 6. Projected total landings taken from annual performance reports (DFW, 1981-2001). Statistics for recent years are no longer provided in the corresponding reports (2001-2003).

Projected Total Landings					
(Pr	ojected=Rep	orted*EF1)			
Fishing Year	STT/STJ S	STX .	TOTAL		
1980-81	961656	318533	1280189		
1981-82	1062144	897893	1960037		
1982-83	946504	391243	1337747		
1983-84	966012	477373	1443385		
1984-85	871866	414234	1286100		
1985-86	1428499	582386	2010885		
1986-87	1313134	620409	1933543		
1987-88	1151581	337113	1488694		
1988-89	1100293	609788	1710081		
1989-90	871480	579659	1451139		
1990-91	891045	974105	1865150		
1991-92	1051179	853650	1904829		
1992-93	886220	373942	1261078		
1993-94	1169033	853767	2015919		
1994-95	966098	601388	1571056		
1995-96	685337	410524	1096802		
1996-97	870478	438047	1308525		
1997-98	807905	742092	1549997		
1998-99	613835	625894	1239729		

Table 7. U.S. Virgin Islands, Old Form (1974-1986). **a)** Reported and **b)** Expanded Landings by district and calendar year.

(a)
Reported Landings from OLD Form (1974-1986)

	STT/STJ		STX		ALL USVI	
	No. Records	RepLandings (lb)	No. Records	Rep Landings	No. Records	Rep Landings
1974	838	57,656			838	57,656
1975	4,267	264,787	570	38,208	4,837	302,995
1976	3,753	224,631	754	59,850	4,507	284,481
1977	3,984	266,236	724	66,511	4,708	332,747
1978	5,468	478,023	989	77,859	6,457	555,883
1979	5,547	500,965	628	78,047	6,175	579,012
1980	5,168	506,347	790	53,040	5,958	559,387
1981	5,157	518,385	1,899	110,360	7,056	628,744
1982	5,630	499,814	3,367	170,358	8,997	670,171
1983	6,827	606,387	5,290	245,296	12,117	851,682
1984	7,133	606,540	6,729	317,770	13,862	924,311
1985	7,986	616,324	3,966	175,621	11,952	791,945
1986	4,128	280,208			4,128	280,208
Totals	65,886	5,426,301	25,706	1,392,919	91,592	6,819,220

(b) Expanded Landings from OLD Form (1974-1986)

	STT/STJ		STX		ALL USVI	
	No. Records	RepLandings (lb)	No. Records	Rep Landings	No. Records	Rep Landings
1974	838	135,492			838	135,492
1975	4,267	622,248	570	119,591	4,837	741,839
1976	3,753	527,883	754	187,329	4,507	715,212
1977	3,984	625,653	724	208,180	4,708	833,834
1978	5,468	1,123,355	989	243,700	6,457	1,367,055
1979	5,548	1,177,267	628	244,287	6,176	1,421,554
1980	5,168	1,189,916	790	166,015	5,958	1,355,931
1981	5,157	1,163,691	1,899	367,105	7,056	1,530,796
1982	5,631	1,013,348	3,367	471,329	8,998	1,484,677
1983	6,829	1,111,520	5,290	403,117	12,119	1,514,637
1984	7,133	1,005,335	6,729	389,577	13,862	1,394,912
1985	7,986	1,246,974	3,966	200,208	11,952	1,447,182
1986	4,128	675,301			4,128	675,301
Total	65,890	11,617,984	25,706	3,000,438	91,596	14,618,422

Table 8. U.S. Virgin Islands, Old Form (1974-1986). **a)** Landings categories, **b)** Reported and **c)**Expanded Landings by district and category.

Landings	Landings Categories in Old Form (1974-1986)				
CODE	NAME				
POT_SP_GP	POT FISH SNAPPER GROUPER				
POT_OTH	POT FISH ALL OTHERS				
NET_SP_GP	NET FISH SNAPPER GROUPER				
NET_OTH	NET FISH ALL OTHERS				
HK_SP_GP	HOOK FISH SNAPPER GROUPER				
нк_отн	HOOK FISH ALL OTHERS				
SPR_SP_GP	SPEAR/GUN FISH SNAPPER GROUPER				
SPR_OTH	SPEAR/GUN FISH ALL OTHERS				
LOBST_ POT	LOBSTER BY POT				
LOBST_HAND	LOBSTER BY HAND				
	OTHER KINDS CONCH, WHELK,				
OTHERS	OCTOPUS, SQUID, CLAM, OYSTERS				

(b) Reported Landings by District Old Form (1974-1986)

CATEGORY	STT/STJ	STX	TOTAL
	N=65890	N=25706	N=91596
POT_SP_GP	671447	111164	782611
POT_OTH	3255264	643965	3899229
NET_SP_GP	75803	12049	87851
NET_OTH	499269	44149	543417
HK_SP_GP	104877	52636	157513
HK_OTH	364448	313770	678218
SPR_SP_GP	7797	11905	19702
SPR_OTH	46730	21032	67761
LOBST_ POT	310120	26504	336624
LOBST_HAND	47397	21109	68506
OTHERS	43280	134638	177917
TOTAL	5426430	1392919	6819349

(c) Expanded Landings by District Old Form (1974-1986)

CATEGORY	STT/STJ	STX	TOTAL
	N=56241	N=46350	N=102591
POT_SP_GP	1498985	299277	1798262
POT_OTH	6869132	1306754	8175886
NET_SP_GP	171463	31918	203382
NET_OTH	1097429	82546	1179975
HK_SP_GP	239205	144602	383808
HK_OTH	766954	611108	1378061
SPR_SP_GP	17733	36962	54695
SPR_OTH	95732	42769	138501
LOBST_ POT	666077	73545	739622
LOBST_HAND	104391	45871	150262
OTHERS	90882	325085	415967
TOTAL	11617984	3000438	14618422

Table 9. U.S. Virgin Islands, Old Form (1974-1986). Reported Landings by year, district and category .

Reported Landings by District and Category (Old Reports 1974-1986)

ST. THOMAS/ ST. JOHN (STT/STJ)

YR	Nrecords	POT_SP_GP	POT_OTH	NET_SP_GP	NET_OTH	HK_SP_GP	HK_OTH	SPR_SP_GF	SPR_OTH	LOBST_ POT	LOBST_HAND	OTHERS	TOTAL
1974	838	13,352	31,951	4,694	1,530	539	2,619		90	1,584	1,159	138	57,656
1975	4,267	56,035	165,490	6,614	12,781	2,136	12,061	953	360	4,909	1,887	1,561	264,787
1976	3,753	39,191	147,746	2,708	3,604	11,738	12,468	210	80	5,405	1,337	145	224,631
1977	3,984	41,852	146,752	3,936	19,584	13,123	20,026	70	176	15,178	4,779	761	266,236
1978	5,468	66,288	238,356	2,716	77,627	8,605	20,827	1,256	1,356	50,513	8,168	2,314	478,023
1979	5,547	65,996	255,986	8,615	92,578	13,923	26,517	809	5,238	22,904	2,858	5,541	500,965
1980	5,168	89,660	245,834	8,908	62,187	18,885	29,209	2,565	4,976	34,054	5,742	4,328	506,347
1981	5,157	125,648	244,288	12,139	50,063	16,911	23,673	300	4,576	34,919	3,140	2,728	518,385
1982	5,630	119,664	260,743	10,352	33,010	10,142	15,077	1,038	5,711	35,581	3,045	5,452	499,814
1983	6,827	32,556	426,613	5,470	42,181	2,710	38,316	277	10,586	37,298	3,527	6,853	606,387
1984	7,133	16,153	435,868	665	40,501	1,603	61,190	33	9,009	30,892	5,088	5,540	606,540
1985	7,986	2,102	468,786	3,528	38,390	3,564	63,495	287	2,836	25,846	3,468	4,023	616,324
1986	4,128	2,950	186,853	5,430	25,163	998	38,942		1,736	11,039	3,200	3,898	280,208
Total	65,886	671,447	3,255,264	75,775	499,199	104,877	364,417	7,797	46,730	310,120	47,397	43,280	5,426,301

ST. CROIX (STX)

YR	N Records	POT_SP_GP	POT_OTH	NET_SP_GP	NET_OTH	HK_SP_GP	HK_OTH	SPR_SP_GF	SPR_OTH	LOBST_ POT	LOBST_HAND	OTHERS	TOTAL
1975	570	6,267	21,174	2,328	741	323	1,670	80	150	4,958	255	262	38,208
1976	754	6,458	32,816	50	520	972	14,409	20	241	3,302	321	741	59,850
1977	724	6,061	22,756	•	90	1,355	18,963	919	465	6,108	2,058	7,737	66,511
1978	989	12,501	21,459	169	611	1,811	10,923	5,494	2,609	1,435	3,546	17,302	77,859
1979	628	30,644	21,960	1,473	5,132	771	7,011	2,742	259	2,724	354	4,978	78,047
1980	790	5,358	20,068	1,503	2,129	2,601	5,349	592	2,185	408	868	11,979	53,040
1981	1,899	6,344	38,979	1,445	3,885	14,434	18,862	817	1,837	703	1,413	21,642	110,360
1982	3,367	10,529	83,373	1,938	2,001	14,913	36,033	999	1,003	1,256	1,436	16,878	170,358
1983	5,290	14,466	136,526	2,568	4,517	6,707	58,818	157	4,359	3,249	1,231	12,699	245,296
1984	6,729	8,111	157,193	505	14,205	6,680	94,140	73	5,076	1,591	5,974	24,224	317,770
1985	3,966	4,426	87,663	70	10,318	2,070	47,594	12	2,848	771	3,655	16,196	175,621
Total	25,706	111,164	643,965	12,049	44,149	52,636	313,770	11,905	21,032	26,504	21,109	134,638	1,392,919

Table 10. U.S. Virgin Islands, Old Form (1974-1986). Expanded Landings by year, district and category .

Expanded Landings by District and Category (Old Reports 1974-1986)

STT/STJ

YR	NRecords	POT_	SP_GP	POT_OTH	NET_	SP_GP	NET_0	ОТН	HK_	SP_GP	HK	_OTH	SPR	SP_GP	SPR_OTH	LOBST	POT	LOBST	HAND	OTHERS	TOTAL
1974	838		31,378	75,084		11,031	3	3,596		1,267	7	6,155			212	<u>)</u>	3,722		2,724	324	135,492
1975	4,267		131,683	388,902		15,543	30	0,035		5,020)	28,343		2,240	846	6	11,535		4,434	3,667	622,248
1976	3,753		92,099	347,203		6,364		3,469		27,584	1	29,299		494	188	3	12,701		3,142	341	527,883
1977	3,984		98,352	344,866		9,250	46	6,022		30,839	9	47,060		165	414	ļ ;	35,667		11,231	1,788	625,653
1978	5,468		155,776	560,136		6,383	182	2,424		20,222	2	48,943		2,950	3,185	5 1	18,704		19,195	5,437	1,123,355
1979	5,548		155,091	601,567		20,245	217	7,558		32,719	9	62,314		1,900	12,310) :	53,825		6,716	13,021	1,177,267
1980	5,168		210,701	577,711		20,934	146	6,140		44,380)	68,641		6,027	11,693	3	80,026		13,494	10,170	1,189,916
1981	5,157		276,489	552,300		26,971	115	5,546		38,688	3	52,860		660	10,519	•	76,806		6,971	5,882	1,163,691
1982	5,631		247,629	523,118		21,378	66	6,583		20,910)	30,602		2,167	11,281		72,450		6,304	10,927	1,013,348
1983	6,829		61,098	781,223		10,714	76	6,450		5,258	3	69,234		535	19,085	5	69,171		6,060	12,692	1,111,520
1984	7,133		27,606	720,441		1,064	66	6,800		2,590)	101,583		56	15,361	;	51,911		8,593	9,330	1,005,335
1985	7,986		3,974	946,268		8,501	7	7,162		7,325	5	128,072		540	6,454		52,954		7,815	7,909	1,246,974
1986	4,128		7,110	450,315		13,086	60	0,643		2,405	5	93,849			4,184	:	26,605		7,712	9,394	675,301
Total	65,890	1.	,498,985	6,869,132		171,463	1,097	7,429		239,205	5	766,954		17,733	95,732	2 6	66,077		104,391	90,882	11,617,984

STX

YR	N Records I	POT_SP_GP	POT_OTH	NET_SP_GP	NET_OTH	HK_SP_GP	HK_OTH	SPR_SP_GP	SPR_OTH	LOBST_ POT	LOBST_HAND	OTHERS	TOTAL
1975	570	6,267	21,174	2,328	741	323	1,670	80	150	4,958	255	262	38,208
1976	754	6,458	32,816	50	520	972	14,409	20	241	3,302	321	741	59,850
1977	724	6,061	22,756		90	1,355	18,963	919	465	6,108	2,058	7,737	66,511
1978	989	12,501	21,459	169	611	1,811	10,923	5,494	2,609	1,435	3,546	17,302	77,859
1979	628	30,644	21,960	1,473	5,132	771	7,011	2,742	259	2,724	354	4,978	78,047
1980	790	5,358	20,068	1,503	2,129	2,601	5,349	592	2,185	408	868	11,979	53,040
1981	1,899	6,344	38,979	1,445	3,885	14,434	18,862	817	1,837	703	1,413	21,642	110,360
1982	3,367	10,529	83,373	1,938	2,001	14,913	36,033	999	1,003	1,256	1,436	16,878	170,358
1983	5,290	14,466	136,526	2,568	4,517	6,707	58,818	157	4,359	3,249	1,231	12,699	245,296
1984	6,729	8,111	157,193	505	14,205	6,680	94,140	73	5,076	1,591	5,974	24,224	317,770
1985	3,966	4,426	87,663	70	10,318	2,070	47,594	12	2,848	771	3,655	16,196	175,621
Total	25,706	111,164	643,965	12,049	44,149	52,636	313,770	11,905	21,032	26,504	21,109	134,638	1,392,919

Table 11. U.S. Virgin Islands, Old Form (1985-1999). **a)** Reported and **b)** Expanded Landings by district and calendar year.

(a) Reported Landings in OLD Form (1986-1999)

Reported	Landings in O	LD FOIIII (1986-	1999)			
	STT/STJ		STX		ALL USVI	
		Reported		Reported		Reported
	No. Records	Landings (Lb)	No. Records	Landings (Lb)	No. Records	Landings (Lb)
1986	3,733	233,348	2,140	115,654	5,873	349,002
1987	3,333	199,833	2,059	105,676	5,392	305,509
1988	30	6,237	223	51,708	253	57,945
1989	1,188	64,675	3,055	202,256	4,243	266,931
1990	2,919	434,857	4,158	346,061	7,077	780,917
1991	6,367	1,788,133	7,392	1,308,703	13,759	3,096,836
1992	7,147	997,031	7,738	954,964	14,885	1,951,995
1993	7,025	606,918	9,074	503,474	16,099	1,110,391
1994	6,278	544,124	8,387	459,933	14,665	1,004,057
1995	6,633	705,718	6,877	352,064	13,510	1,057,782
1996	6,241	718,405	3,824	215,537	10,065	933,942
1997	4,681	536,636	704	66,320	5,385	602,956
1998	2,236	235,528			2,236	235,528
1999	165	14,535			165	14,535
Total	57,976	7,085,978	55,631	4,682,348	113,607	11,768,326

(b) Expanded Landings from OLD Form (1986-1999)

	STT/STJ		STX		ALL USVI	
		Expanded		Expanded		Expanded
	No. Records	Landings (Lb)	No. Records	Landings (Lb)	No. Records	Landings (Lb)
1986	3,733	569,239	2,140	261,839	5,873	831,079
1987	3,333	485,452	2,059	238,099	5,392	723,551
1988	30	14,494	223	85,372	253	99,866
1989	1,188	93,295	3,055	365,309	4,243	458,604
1990	2,919	642,035	4,158	741,819	7,077	1,383,854
1991	6,367	2,510,782	7,392	2,370,346	13,759	4,881,128
1992	7,147	1,339,125	7,738	1,510,968	14,885	2,850,093
1993	7,025	819,999	9,074	618,048	16,099	1,438,048
1994	6,278	764,931	8,387	538,639	14,665	1,303,570
1995	6,633	870,341	6,877	362,626	13,510	1,232,966
1996	6,241	835,634	3,824	220,564	10,065	1,056,198
1997	4,681	581,819	704	66,983	5,385	648,802
1998	2,236	260,563	-	-	2,236	260,563
1999	165	15,262	-	-	165	15,262
Total	57,976	9,802,971	55,631	7,380,612	113,607	17,183,584

Table 12. U.S. Virgin Islands, Old Form (1986-1999).**a)** Reported and **b)** Expanded Landings by district and category.

(a) Reported Landings by District Old Form (1986-1999)

CATEGORY	STT/STJ	STX	TOTAL
	N=57,976	N=55,634	N=113,610
POTFISH	2,121,436	839,423	2,960,859
SG	86,423	25,962	112,385
HOOKFISH	934,336	466,095	1,400,430
NETFISH	446,721	344,830	791,550
SPEARF	35,475	96,986	132,461
BAITFISH	70,951	3,793	74,744
FINFISH	908,689	604,768	1,513,457
REEFFISH	774,373	1,136,568	1,910,941
CONCH	25,709	207,865	233,574
WHELK	12,611	337	12,948
LOBSTER	732,569	177,740	910,309
PELAGIC	379,340	191,950	571,290
TUNA	1,865	15,649	17,514
DORADO	1,360	13,082	14,442
WAHOO	633	8,035	8,668
OTHER	553,490	549,410	1,102,900
TOTAL	7,085,978	4,682,491	11,768,469

(b) Expanded Landings by District Old Form (1986-1999)

CATEGORY	STT/STJ	STX	TOTAL
	N=57,976	N=55,634	N=113,610
POTFISH	2,941,882	1,112,526	4,054,408
SG	120,866	43,631	164,497
HOOKFISH	1,232,332	595,128	1,827,460
NETFISH	589,628	394,445	984,074
SPEARF	45,982	109,155	155,137
BAITFISH	85,692	4,332	90,024
FINFISH	1,286,405	1,045,337	2,331,742
REEFFISH	1,141,696	2,152,124	3,293,820
CONCH	44,156	303,752	347,908
WHELK	23,084	499	23,583
LOBSTER	964,236	250,545	1,214,781
PELAGIC	533,547	332,884	866,432
TUNA	2,909	20,031	22,939
DORADO	2,121	16,745	18,866
WAHOO	987	10,285	11,272
OTHER	787,449	989,192	1,776,641
TOTAL	9,802,971	7,380,613	17,183,583

Table 13. U.S. Virgin Islands, Old Form (1986-1999). Reported Landings by year, district and category.

Reported Landings by Category (Old Form 1986-1999)

STT/	STJ												7	OTAL						
YR	Nrecords	POTFISH	SG	HOOKFISH	NETFISH:	SPEARF	BAITFISH	FINFISH	REEFFISH C	CONCH	WHELK	POTLOBST [DIVELOBS	OBSTER	PELAGIC	TUNA	DORADO V	/AHOO	OTHER	TOTAL
1986	3733	170095		33816	15271	1132				1422	1748	6307	3478	9864						233348
1987	3333	120966		31170	13323	1380		2478	4063	6553	4116	7331	1670	12102	2078				1604	199833
1988	30			112				2135	416	1420				561	941				652	6237
1989	1188							105	64342	100				18	110					64675
1990	2919							124207	175253					70038	65359					434857
1991	6367		51177					520425	337894					204533	310852				363252	1788133
1992	7147	164455	35246	83653	30487	2178	8290	259339	192405	15	794	31287	902	32189					187982	997031
1993	7025	282681		142080	92800	5362	10000			5387	1753	59656	5033	64689		1138	831	198		606918
1994	6278	257922		150181	66893	4213	10160			1689	3482	44516	3378	47894		727	529	435		544124
1995	6633	342078		181948	80439	6902	14587			2377	447	71185	5757	76941						705718
1996	6241	343974		170310	71709	8005	13358			4601	45	99884	6521	106405						718405
1997	4681	300495		98315	44892	4825	11304			1606	226	71151	3823	74974						536636
1998	2236	132745		40460	24786	1479	3157			539		31024	1339	32363						235528
1999	165	6027		2292	6121		95													14535

STX													7	OTAL						
YEAR I	Vrecords F	OTFISH	SG	HOOKFISH	NETFISH S	SPEARF	BAITFISH	FINFISH	REEFFISH (CONCH	WHELK	POTLOBSTI D	DIVELOBS L	OBSTER	PELAGIC	TUNA	DORADO V	VAHOO (OTHER	TOTAL
1986	2140	74238		28941	5694	273				4935		373	1200	1573						115654
1987	2059	62583		27208	6440	147		274	393	5475		198	933	1546	1096				514	105676
1988	223							13200	7087	17153				7083	6501				684	51708
1989	3055							11499	165888	12118				6480	6271					202256
1990	4158							20634	300412	8417				11893	4705					346061
1991	7392			315			32	306211	423778	31688	221			15348	161224				369886	1308703
1992	7738	96570	25257	65994	25633	6206	135	252951	239011	18875		2652	7145	34399	12153				177781	954964
1993	9074	201502	705	134155	69419	22133	465			22221		8803	24530	33333		10089	3996	4911	545	503474
1994	8387	182665		103153	73989	23460	1489			30994	96	5342	20977	26319		5560	9086	3124		459933
1995	6877	124823		65670	88048	21340	1113			29821	20	4744	16486	21230						352064
1996	3824	74276		32753	56563	19980	556			17530		2173	11707	13879						215537
1997	704	22732		7845	19044	3448				8593		1888	2770	4658						66320

Table 14. U.S. Virgin Islands, Old Form (1986-1999). Expanded Landings by year, district and category.

Expanded Landings by Category (Old Form 1986-1999)

STT/S	TJ											Т	OTAL						I
YR	Nrecords P	OTFISH SG H	OOKFISH N	NETFISH SF	PEARF B	AITFISH	FINFISH R	EEFFISH C	CONCH V	VHELK F	OTLOBSTIDI	VELOBS L	OBSTER P	ELAGIC TU	JNA DO	DRADO WA	O OOHA	THER	TOTAL
1986	3733	414951 .	82507	37242	2762 .				3467	4249	15386	8483	24061 .	-					569239
1987	3333	295038 .	76015	32500	3367 .		5815	9604	15503	9762	17868	4075	29181	4879 .		•		3788	485452
1988	30.		161 .				4996	973	3323 .				1313	2202 .				1526	14494
1989	1188.						196	92673	187 .		•		34	206 .		•			93295
1990	2919.						170164	286378 .					95952	89542.					642035
1991	6367 .	70112 .					731786	475005 .			•		285717	436719 .		•		511442	2510782
1992	7147	187497 50754	95364	34755	2482	9451	373448	277063	17	905	35667	1028	36695 .	-				270694	1339125
1993	7025	381647 .	191159	126002	6700	13106 .			8257	2705	80325	6720	87045 .		1775	1296	308 .		819999
1994	6278	361660 .	211438	94036	5919	13874 .			2633	4609	63290	4837	68127 .		1133	824	679 .		764931
1995	6633	421761 .	224671	99258	8450	17987 .			2917	559	87678	7060	94738 .	-		•			870341
1996	6241	399783 .	197703	83615	9442	15458 .			5517	48	116418	7650	124068 .	-					835634
1997	4681	326236 .	106163	48613	5216	12217 .			1736	248	77213	4177	81389 .	-		•			581819
1998	2236	146982 .	44746	27180	1642	3500 .			598 .		34429	1486	35915 .	-					260563
1999	165	6328 .	2407	6427 .		100 .								-					15262

STX											T	OTAL					
YEAR N	I Rows P	OTFISH SG HO	OOKFISH N	ETFISH S	PEARF BA	ITFISHFINFISH F	REEFFISH	CONCH W	HELK PO	TLOBSTID	IVELOBS LO	OBSTER PI	ELAGIC TUNA D	ORADO V	VAHOO O	THER	TOTAL
1986	2140	167995 .	65526	12925	620 .			11202 .		847	2724	3571 .					261839
1987	2059	141788 .	61703	14594	334 .	537	772	11851 .		449	2118	3373	2146			999	238099
1988	223.					21894	11246	28483 .				11570	10866			1313	85372
1989	3055.					19080	303061	21402 .		_		11378	10388				365309
1990	4158.				-	43944	644650	17888 .				25282	10055				741819
1991	7392.		536 .			54 529865	786077	61103	376 .			29444	278770			684122	2370346
1992	7738	112070 42813	76553	29734	7221	157 430016	406318	30113 .		3076	8288	53188	20660			302126	1510968
1993	9074	248062 818	162028	84864	28018	573		27394 .		10770	30574	41344 .	12914	5115	6286	632	618048
1994	8387	215071 .	119585	84573	27095	1830		36978	103	6122	24536	30658 .	7117	11630	3999 .		538639
1995	6877	128568 .	67640	90689	21980	1146		30716	21	4886	16981	21867 .					362626
1996	3824	76013 .	33633	57831	20406	573		17942 .		2218	11948	14166 .					220564
1997	704	22959	7923	19234	3482			8679		1907	2798	4705					66983

Table 15. U.S. Virgin Islands, New Form (1994-2003). **a)** Reported and **b)** Expanded Landings by district and calendar year.

(a) Reported Landings in NEW Form (1994-2003)

	STT/STJ		STX		ALL USVI			
		Reported	Reported			Reported		
Year	Nrecords	Landings	Nrecords	Landings	Nrecords	Landings		
1994			228	6,196	228	6,196		
1995			517	20,975	517	20,975		
1996			3,590	174,850	3,590	174,850		
1997	467	35,174	8,226	456,361	8,693	491,536		
1998	2,177	214,299	8,623	521,902	10,800	736,201		
1999	4,216	422,767	8,507	543,270	12,723	966,037		
2000	4,947	457,195	9,822	636,076	14,769	1,093,270		
2001	5,623	556,771	12,243	817,513	17,866	1,374,283		
2002	5,398	569,813	13,703	945,292	19,101	1,515,105		
2003	2,726	300,683	6,486	452,881	9,212	753,564		
Total	25,554	2,556,701	71,945	4,575,316	88,287	6,378,453		

(b) Expanded Landings in NEW Form (1994-2003)

	STT/STJ		STX		ALL USVI	
		Expanded		Expanded		
Year	Nrecords	Landings	Nrecords	Landings	Nrecords	RepLandings
1994			228	6,382	517	21,604
1995			517	21,604	3,590	176,986
1996			3,590	176,986	8,693	508,858
1997	467	39,043	8,226	469,814	10,800	767,686
1998	2,177	227,053	8,623	540,633	12,723	1,007,570
1999	4,216	448,002	8,507	559,568	14,769	1,144,356
2000	4,947	489,198	9,822	655,158	17,866	1,437,783
2001	5,623	595,745	12,243	842,038	19,101	1,583,351
2002	5,398	609,700	13,703	973,651	97,499	7,442,774
2003	2,726	321,731	6,486	466,468		
Total	25,554	2,730,472	71,945	4,712,302	185,558	14,090,967

Table 16. U.S. Virgin Islands, New Form (1994-2003).**a**) Reported and **b**) Expanded Landings by district and category.

(a) Reported Landings by District New Form (1994-2003)

(b) Expanded Landings by District New Form (1994-2003)

CATEGORY	STT/STJ	STX	TOTAL	CATEGORY	STT/STJ	STX	TOTAL
	(N=25554)	(N=71945)	N=(97499)		(N=25554)	(N=71945)	N=(97499)
Parrot	215,618	1,116,469	1,332,087	Parrot	230,228	1,149,708	1,379,936
Snapper	510,993	622,290	1,133,283	Snapper	545,824	640,784	1,186,608
Lobster	268,540	497,745	766,285	Lobster	286,550	512,718	799,268
Conch	8,793	467,071	475,864	Conch	9,383	481,250	490,633
Trigger	280,165	170,442	450,607	Trigger	299,027	175,536	474,563
Surgeon	156,821	221,077	377,898	Surgeon	167,402	227,730	395,133
Grunt	148,053	229,017	377,070	Grunt	158,123	235,847	393,970
Grouper	179,486	165,090	344,576	Grouper	191,484	170,125	361,608
Jack	207,699	120,328	328,027	Jack	222,158	123,719	345,877
Dolphin	31,729	293,880	325,609	Dolphin	33,955	302,760	336,715
Tuna	73,426	218,927	292,352	Tuna	78,584	225,588	304,172
Baitfish	94,693	71,757	166,450	Baitfish	101,202	73,904	175,106
Shellfish	116,007	49,596	165,603	Shellfish	123,873	51,073	174,946
Porgy	85,618	20,610	106,227	Porgy	91,549	21,228	112,777
Wahoo	15,517	72,870	88,387	Wahoo	16,606	75,039	91,645
Barra	9,269	74,503	83,772	Barra	9,917	76,705	86,623
Mackerel	26,673	44,730	71,403	Mackerel	28,484	46,078	74,562
Angel	45,733	17,443	63,176	Angel	48,666	17,963	66,629
Offshore	5,243	51,828	57,071	Offshore	5,597	53,465	59,062
Goat	3,680	27,842	31,522	Goat	3,925	28,644	32,569
Finfish	20,123	1	20,124	Finfish	21,482	1	21,483
Whelk	13,001	6,342	19,343	Whelk	13,958	6,538	20,496
Squirrel	17,259	161	17,420	Squirrel	18,389	166	18,555
Shark	8,929	1,200	10,129	Shark	9,531	1,227	10,759
Marlin	829	7,201	8,030	Marlin	887	7,426	8,313
Hogfish	6,119	8	6,127	Hogfish	6,535	8	6,544
Gar	1,690	2,609	4,299	Gar	1,808	2,704	4,512
Redman	3,625		3,625	Redman	3,879		3,879
FAD	160	2,047	2,207	FAD	171	2,067	2,239
Kingfish	403	145	548	Kingfish	431	149	581
Octopus	149		149	Octopus	159		159
Silver		9	9	Silver		9	9
BlueMarlin	3		3	BlueMarlin	3		3
WhtMarlin			-	WhtMarlin			-
Pampano			-	Pampano			-
Sponge	620		620	Sponge	663		663
Art Reef			-	Art Reef			-
Other	36	1,850	1,886	Other	39	1,902	1,941
TOTAL	2,556,701	4,575,316	7,132,017	TOTAL	2,730,472	4,712,302	7,442,774

Table 17. U.S. Virgin Islands, New Form (1994-2003). Reported Landings by year, district and category.

Reported Landings by Category (New Form 1994-2003)

STT/ST	J														
Year	Nrows	Grouper	Snapper	Grunt	Jack	Surgeon	Parrot	Shellfish	Trigger	Angel	Barra	Goat	Mackerel	Porgy	Offshore
1997	467	689	5,783	2,445	4,142	1,561	3,327	908	2,391	1,120		139		251	575
1998	2,177	14,704	35,570	14,023	8,044	15,287	20,671	9,828	27,599	10,513		747	,	2,427	939
1999	4,216	32,206	81,446	25,076	25,708	26,033	37,639	18,276	49,499	9,722		931	,	10,539	1,322
2000	4,947	34,799	98,292	23,793	44,130	26,656	34,622	21,590	52,109	4,032	,	798	,	17,538	2,208
2001	5,623	38,209	121,156	31,823	52,048	32,846	47,838	25,193	56,691	7,508		731		21,642	
2002		37,634	112,142	33,289	49,263	35,715	45,855	25,940	56,306	,	,	295	,	21,690	
2003	2,726	21,245	56,604	17,604	24,365	18,723	25,667	14,274	35,572	3,633	588	40	2,920	11,531	-
	Lobster (Conch	Whelk	Hogfish	Shark	Squirrel	Gar	Marlin	WhtMarlin	BlueMarlin	Pampano	Silver	Kingfish	Redman	Finfish
1997	2,113	66	1,263	14	77										704
1998	21,395	176	173	317	228	1,522									13,899
1999	49,975	1,620	1,117	2,333	1,096	2,931								721	4,895
2000	46,208	1,083	1,475	3,235	38	3,020		375	-				403	655	55
2001	50,592	1,647	6,153	147	15	5,736	80		-	;	3.				
2002	61,504	2,172	1,961	50	7,407	3,541	1,132	164						1,366	570
2003	36,754	2,029	859	23	69	509	478	290						883	-
CTV															
STX	1	_	_			_					_			_	
					Jack	Surgeon	Parrot	Shellfish	Trigger	Angel	Barra	Goat	Mackerel	Porgy	Offshore
		E00	E 240					420							
1994		509	5,319		. 700	E 4 7	. 2 001	138			. 422		. 40	•	. 2 550
1995	517	437	5,040	1,791	723 12 275	547 8 347	3,891	155	1,121	3'		55 1 786			3,550 7,259
1995 1996	517 3,590	437 4,897	5,040 23,919	1,791 11,119	12,275	8,347	44,820	155 1,810	1,121 6,867	2,314	3,273	1,786	965		7,259
1995 1996 1997	517 3,590 8,226	437 4,897 12,181	5,040 23,919 53,071	1,791 11,119 29,735	12,275 20,706	8,347 23,839	44,820 123,015	155 1,810 5,393	1,121 6,867 16,270	2,314 5,207	3,273 6,775	1,786 5,289	965 3,017		7,259 8,328
1995 1996 1997 1998	517 3,590 8,226 8,623	437 4,897 12,181 17,550	5,040 23,919 53,071 59,044	1,791 11,119 29,735 31,417	12,275 20,706 12,275	8,347 23,839 33,129	44,820 123,015 134,408	155 1,810 5,393 6,009	1,121 6,867 16,270 24,900	2,314 5,20 6,63	3,273 6,775 6,319	1,786 5,289 3,723	965 3,017 3,313	·	7,259 8,328 6,874
1995 1996 1997 1998 1999	517 3,590 8,226 8,623 8,507	437 4,897 12,181 17,550 19,850	5,040 23,919 53,071 59,044 62,877	1,791 11,119 29,735 31,417 29,221	12,275 20,706 12,275 15,003	8,347 23,839 33,129 25,880	44,820 123,015 134,408 154,705	155 1,810 5,393 6,009 6,495	1,121 6,867 16,270 24,900 23,379	2,314 5,200 6,63 3,160	3,273 6,775 6,319 8,285	1,786 5,289 3,723 3,632	965 3,017 3,313 4,282	1,410	7,259 8,328 6,874 15,387
1995 1996 1997 1998 1999 2000	517 3,590 8,226 8,623 8,507 9,822	437 4,897 12,181 17,550 19,850 21,205	5,040 23,919 53,071 59,044 62,877 79,127	1,791 11,119 29,735 31,417 29,221 27,687	12,275 20,706 12,275 15,003 13,270	8,347 23,839 33,129 25,880 29,992	44,820 123,015 134,408 154,705 160,399	155 1,810 5,393 6,009 6,495 5,938	1,121 6,867 16,270 24,900 23,379 21,736	2,314 5,20 6,63 3,16	3,273 6,775 6,319 8,285 2 11,037	1,786 5,289 3,723 3,632 2,617	965 3,017 3,313 4,282 7,846	1,410 2,016	7,259 8,328 6,874 15,387 1,399
1995 1996 1997 1998 1999 2000	517 3,590 8,226 8,623 8,507 9,822 12,243	437 4,897 12,181 17,550 19,850 21,205 27,552	5,040 23,919 53,071 59,044 62,877 79,127 115,582	1,791 11,119 29,735 31,417 29,221 27,687 37,242	12,275 20,706 12,275 15,003 13,270 23,442	8,347 23,839 33,129 25,880 29,992 35,810	44,820 123,015 134,408 154,705 160,399 186,575	155 1,810 5,393 6,009 6,495 5,938 8,255	1,121 6,867 16,270 24,900 23,379 21,736 29,513	2,314 5,20 6,63 3,16 4	3,273 6,775 6,319 8,285 2 11,037 11,860	1,786 5,289 3,723 3,632 2,617 2,838	965 3,017 3,313 4,282 7,846 7,117	1,410 2,016 4,815	7,259 8,328 6,874 15,387 1,399 5,759
1995 1996 1997 1998 1999 2000	517 3,590 8,226 8,623 8,507 9,822 12,243 13,703	437 4,897 12,181 17,550 19,850 21,205	5,040 23,919 53,071 59,044 62,877 79,127	1,791 11,119 29,735 31,417 29,221 27,687	12,275 20,706 12,275 15,003 13,270	8,347 23,839 33,129 25,880 29,992 35,810	44,820 123,015 134,408 154,705 160,399	155 1,810 5,393 6,009 6,495 5,938	1,121 6,867 16,270 24,900 23,379 21,736	2,314 5,20 6,63 3,16 42	3,273 6,775 6,319 8,285 2 11,037	1,786 5,289 3,723 3,632 2,617	965 3,017 3,313 4,282 7,846 7,117 13,868	1,410 2,016	7,259 8,328 6,874 15,387 1,399 5,759 3,272
1995 1996 1997 1998 1999 2000 2001 2002 2003	517 3,590 8,226 8,623 8,507 9,822 12,243 13,703 6,486	437 4,897 12,181 17,550 19,850 21,205 27,552 40,837 20,075	5,040 23,919 53,071 59,044 62,877 79,127 115,582 150,492 67,821	1,791 11,119 29,735 31,417 29,221 27,687 37,242 42,626 18,181	12,275 20,706 12,275 15,003 13,270 23,442 17,112 5,523	8,347 23,839 33,129 25,880 29,992 35,810 46,135 17,398	44,820 123,015 134,408 154,705 160,399 186,575 220,595 88,062	155 1,810 5,393 6,009 6,495 5,938 8,255 9,705 5,700	1,121 6,867 16,270 24,900 23,379 21,736 29,513 35,032 11,625	2,314 5,207 6,63 3,166 42	3,273 6,775 6,319 7,8,285 2,11,037 11,860 2,18,984 7,547	1,786 5,289 3,723 3,632 2,617 2,838 5,877 2,025	965 3,017 3,313 4,282 7,846 7,117 13,868 4,273	1,410 2,016 4,815 9,144 3,226	7,259 8,328 6,874 15,387 1,399 5,759 3,272
1995 1996 1997 1998 1999 2000 2001 2002 2003	517 3,590 8,226 8,623 8,507 9,822 12,243 13,703 6,486	437 4,897 12,181 17,550 19,850 21,205 27,552 40,837 20,075	5,040 23,919 53,071 59,044 62,877 79,127 115,582 150,492 67,821	1,791 11,119 29,735 31,417 29,221 27,687 37,242 42,626	12,275 20,706 12,275 15,003 13,270 23,442 17,112 5,523	8,347 23,839 33,129 25,880 29,992 35,810 46,135 17,398	44,820 123,015 134,408 154,705 160,399 186,575 220,595 88,062	155 1,810 5,393 6,009 6,495 5,938 8,255 9,705	1,121 6,867 16,270 24,900 23,379 21,736 29,513 35,032 11,625	2,314 5,20 6,63 3,16 42	3,273 6,775 6,319 8,285 2 11,037 11,860 2 18,984	1,786 5,289 3,723 3,632 2,617 2,838 5,877 2,025	965 3,017 3,313 4,282 7,846 7,117 13,868 4,273	1,410 2,016 4,815 9,144 3,226	7,259 8,328 6,874 15,387 1,399 5,759 3,272
1995 1996 1997 1998 1999 2000 2001 2002 2003	517 3,590 8,226 8,623 8,507 9,822 12,243 13,703 6,486	437 4,897 12,181 17,550 19,850 21,205 27,552 40,837 20,075	5,040 23,919 53,071 59,044 62,877 79,127 115,582 150,492 67,821 Whelk	1,791 11,119 29,735 31,417 29,221 27,687 37,242 42,626 18,181	12,275 20,706 12,275 15,003 13,270 23,442 17,112 5,523 Shark	8,347 23,839 33,129 25,880 29,992 35,810 46,135 17,398 Squirrel	44,820 123,015 134,408 154,705 160,399 186,575 220,595 88,062	155 1,810 5,393 6,009 6,495 5,938 8,255 9,705 5,700	1,121 6,867 16,270 24,900 23,379 21,736 29,513 35,032 11,625	2,314 5,207 6,63 3,166 42	3,273 6,775 6,319 7,8,285 2,11,037 11,860 2,18,984 7,547	1,786 5,289 3,723 3,632 2,617 2,838 5,877 2,025	965 3,017 3,313 4,282 7,846 7,117 13,868 4,273	1,410 2,016 4,815 9,144 3,226	7,259 8,328 6,874 15,387 1,399 5,759 3,272
1995 1996 1997 1998 1999 2000 2001 2002 2003	517 3,590 8,226 8,623 8,507 9,822 12,243 13,703 6,486 Lobster 0	437 4,897 12,181 17,550 19,850 21,205 27,552 40,837 20,075 Conch	5,040 23,919 53,074 59,044 62,877 79,127 115,582 150,492 67,821 Whelk	1,791 11,119 29,735 31,417 29,221 27,687 37,242 42,626 18,181	12,275 20,706 12,275 15,003 13,270 23,442 17,112 5,523 Shark	8,347 23,839 33,129 25,880 29,992 35,810 46,135 17,398 Squirrel	44,820 123,015 134,408 154,705 160,399 186,575 220,595 88,062	155 1,810 5,393 6,009 6,495 5,938 8,255 9,705 5,700	1,121 6,867 16,270 24,900 23,379 21,736 29,513 35,032 11,625	2,314 5,207 6,63 3,166 42	3,273 6,775 6,319 7,8,285 2,11,037 11,860 2,18,984 7,547	1,786 5,289 3,723 3,632 2,617 2,838 5,877 2,025	965 3,017 3,313 4,282 7,846 7,117 13,868 4,273	1,410 2,016 4,815 9,144 3,226	7,259 8,328 6,874 15,387 1,399 5,759 3,272
1995 1996 1997 1998 1999 2000 2001 2002 2003 1994 1995 1996	517 3,590 8,226 8,623 8,507 9,822 12,243 13,703 6,486 Lobster 6	437 4,897 12,181 17,550 19,850 21,205 27,552 40,837 20,075 Conch	5,040 23,919 53,071 59,044 62,877 79,127 115,582 150,492 67,821 Whelk	1,791 11,119 29,735 31,417 29,221 27,687 37,242 42,626 18,181 Hogfish	12,275 20,706 12,275 15,003 13,270 23,442 17,112 5,523 Shark 113 548	8,347 23,839 33,129 25,880 29,992 35,810 46,135 17,398 Squirrel	44,820 123,015 134,408 154,705 160,399 186,575 220,595 88,062 Gar	155 1,810 5,393 6,009 6,495 5,938 8,255 9,705 5,700 Marlin	1,121 6,867 16,270 24,900 23,379 21,736 29,513 35,032 11,625	2,314 5,207 6,63 3,166 42	3,273 6,775 6,319 7,8,285 2,11,037 11,860 2,18,984 7,547	1,786 5,289 3,723 3,632 2,617 2,838 5,877 2,025	965 3,017 3,313 4,282 7,846 7,117 13,868 4,273	1,410 2,016 4,815 9,144 3,226	7,259 8,328 6,874 15,387 1,399 5,759 3,272 . Finfish .
1995 1996 1997 1998 1999 2000 2001 2002 2003 1994 1995 1996 1997	517 3,590 8,226 8,623 8,507 9,822 12,243 13,703 6,486 Lobster 6	437 4,897 12,181 17,550 19,850 21,205 27,552 40,837 20,075 Conch 1,068 13,677 34,520	5,040 23,919 53,071 59,044 62,877 79,127 115,582 150,492 67,821 Whelk	1,791 11,119 29,735 31,417 29,221 27,687 37,242 42,626 18,181 Hogfish	12,275 20,706 12,275 15,003 13,270 23,442 17,112 5,523 Shark 113 548 59	8,347 23,839 33,129 25,880 29,992 35,810 46,135 17,398 Squirrel	44,820 123,015 134,408 154,705 160,399 186,575 220,595 88,062 Gar	155 1,810 5,393 6,009 6,495 5,938 8,255 9,705 5,700 Marlin	1,121 6,867 16,270 24,900 23,379 21,736 29,513 35,032 11,625 WhtMarlin	2,314 5,207 6,63 3,166 42	3,273 6,775 6,319 7,8,285 2,11,037 11,860 2,18,984 7,547	1,786 5,289 3,723 3,632 2,617 2,838 5,877 2,025	965 3,017 3,313 4,282 7,846 7,117 13,868 4,273	1,410 2,016 4,815 9,144 3,226	7,259 8,328 6,874 15,387 1,399 5,759 3,272
1995 1996 1997 1998 1999 2000 2001 2002 2003 1994 1995 1996 1997 1998	517 3,590 8,226 8,623 8,507 9,822 12,243 13,703 6,486 Lobster 0 12,608 29,184 41,919	437 4,897 12,181 17,550 19,850 21,205 27,552 40,837 20,075 Conch 1,068 13,677 34,520 57,544	5,040 23,919 53,071 59,044 62,877 79,127 115,582 150,492 67,821 Whelk	1,791 11,119 29,735 31,417 29,221 27,687 37,242 42,626 18,181 Hogfish	12,275 20,706 12,275 15,003 13,270 23,442 17,112 5,523 Shark	8,347 23,839 33,129 25,880 29,992 35,810 46,135 17,398 Squirrel	44,820 123,015 134,408 154,705 160,399 186,575 220,595 88,062 Gar	155 1,810 5,393 6,009 6,495 5,938 8,255 9,705 5,700 Marlin	1,121 6,867 16,270 24,900 23,379 21,736 29,513 35,032 11,625 WhtMarlin	2,314 5,207 6,63 3,166 42	3,273 6,775 6,319 7,8,285 2,11,037 11,860 2,18,984 7,547	1,786 5,289 3,723 3,632 2,617 2,838 5,877 2,025	965 3,017 3,313 4,282 7,846 7,117 13,868 4,273	1,410 2,016 4,815 9,144 3,226	7,259 8,328 6,874 15,387 1,399 5,759 3,272 . Finfish .
1995 1996 1997 1998 1999 2000 2001 2002 2003 1994 1995 1996 1997 1998	517 3,590 8,226 8,623 8,507 9,822 12,243 13,703 6,486 Lobster 6	437 4,897 12,181 17,550 19,850 21,205 27,552 40,837 20,075 Conch 1,068 13,677 34,520 57,544 42,721	5,040 23,919 53,071 59,044 62,877 79,127 115,582 150,492 67,821 Whelk	1,791 11,119 29,735 31,417 29,221 27,687 37,242 42,626 18,181 Hogfish	12,275 20,706 12,275 15,003 13,270 23,442 17,112 5,523 Shark 113 548 59 74 80	8,347 23,839 33,129 25,880 29,992 35,810 46,135 17,398 Squirrel	44,820 123,015 134,408 154,705 160,399 186,575 220,595 88,062 Gar	155 1,810 5,393 6,009 6,495 5,938 8,255 9,705 5,700 Marlin 856	1,121 6,867 16,270 24,900 23,379 21,736 29,513 35,032 11,625 WhtMarlin	2,314 5,207 6,63 3,166 42	3,273 6,775 6,319 7,8,285 2,11,037 11,860 2,18,984 7,547	1,786 5,289 3,723 3,632 2,617 2,838 5,877 2,025 Silver	965 3,017 3,313 4,282 7,846 7,117 13,868 4,273 Kingfish	1,410 2,016 4,815 9,144 3,226	7,259 8,328 6,874 15,387 1,399 5,759 3,272 . Finfish .
1995 1996 1997 1998 1999 2000 2001 2002 2003 1994 1995 1996 1997 1998 1999 2000	517 3,590 8,226 8,623 8,507 9,822 12,243 13,703 6,486 Lobster 0 12,608 29,184 41,919 50,884 84,496	437 4,897 12,181 17,550 19,850 21,205 27,552 40,837 20,075 Conch 1,068 13,677 34,520 57,544 42,721 66,418	5,040 23,919 53,071 59,044 62,877 79,127 115,582 150,492 67,821 Whelk	1,791 11,119 29,735 31,417 29,221 27,687 37,242 42,626 18,181 Hogfish	12,275 20,706 12,275 15,003 13,270 23,442 17,112 5,523 Shark 113 548 59 74 80 32	8,347 23,839 33,129 25,880 29,992 35,810 46,135 17,398 Squirrel	44,820 123,015 134,408 154,705 160,399 186,575 220,595 88,062 Gar 	155 1,810 5,393 6,009 6,495 5,938 8,255 9,705 5,700 Marlin 856 4,970	1,121 6,867 16,270 24,900 23,379 21,736 29,513 35,032 11,625 WhtMarlin	2,314 5,207 6,63 3,166 42	3,273 6,775 6,319 7,8,285 2,11,037 11,860 2,18,984 7,547	1,786 5,289 3,723 3,632 2,617 2,838 5,877 2,025	965 3,017 3,313 4,282 7,846 7,117 13,868 4,273 Kingfish	1,410 2,016 4,815 9,144 3,226	7,259 8,328 6,874 15,387 1,399 5,759 3,272 . Finfish .
1995 1996 1997 1998 1999 2000 2001 2002 2003 1994 1995 1996 1997 1998 1999 2000 2001	517 3,590 8,226 8,623 8,507 9,822 12,243 13,703 6,486 Lobster 0 12,608 29,184 41,919 50,884 84,496 112,297	437 4,897 12,181 17,550 19,850 21,205 27,552 40,837 20,075 Conch 1,068 13,677 34,520 57,544 42,721 66,418 93,317	5,040 23,919 53,071 59,044 62,877 79,127 115,582 150,492 67,821 Whelk	1,791 11,119 29,735 31,417 29,221 27,687 37,242 42,626 18,181 Hogfish	12,275 20,706 12,275 15,003 13,270 23,442 17,112 5,523 Shark	8,347 23,839 33,129 25,880 29,992 35,810 46,135 17,398 Squirrel	44,820 123,015 134,408 154,705 160,399 186,575 220,595 88,062 Gar	155 1,810 5,393 6,009 6,495 5,938 8,255 9,705 5,700 Marlin 856	1,121 6,867 16,270 24,900 23,379 21,736 29,513 35,032 11,625 WhtMarlin	2,314 5,207 6,63 3,167 42	3,273 6,775 6,319 7,8,285 2,11,037 11,860 2,18,984 7,547	1,786 5,289 3,723 3,632 2,617 2,838 5,877 2,025 Silver	965 3,017 3,313 4,282 7,846 7,117 13,868 4,273 Kingfish	. 1,410 2,016 4,815 9,144 3,226 Redman 	7,259 8,328 6,874 15,387 1,399 5,759 3,272 . Finfish .
1995 1996 1997 1998 1999 2000 2001 2002 2003 1994 1995 1996 1997 1998 1999 2000 2001 2001	517 3,590 8,226 8,623 8,507 9,822 12,243 13,703 6,486 Lobster 0 12,608 29,184 41,919 50,884 84,496	437 4,897 12,181 17,550 19,850 21,205 27,552 40,837 20,075 Conch 1,068 13,677 34,520 57,544 42,721 66,418	5,040 23,919 53,071 59,044 62,877 79,127 115,582 150,492 67,821 Whelk	1,791 11,119 29,735 31,417 29,221 27,687 37,242 42,626 18,181 Hogfish	12,275 20,706 12,275 15,003 13,270 23,442 17,112 5,523 Shark 113 548 59 74 80 32	8,347 23,839 33,129 25,880 29,992 35,810 46,135 17,398 Squirrel - - - - - - - - - - - - - - - - - - -	44,820 123,015 134,408 154,705 160,399 186,575 220,595 88,062 Gar	155 1,810 5,393 6,009 6,495 5,938 8,255 9,705 5,700 Marlin	1,121 6,867 16,270 24,900 23,379 21,736 29,513 35,032 11,625 WhtMarlin	2,314 5,207 6,63 3,167 42	3,273 6,775 6,319 7,8,285 2,11,037 11,860 2,18,984 7,547	1,786 5,289 3,723 3,632 2,617 2,838 5,877 2,025 Silver	965 3,017 3,313 4,282 7,846 7,117 13,868 4,273 Kingfish	. 1,410 2,016 4,815 9,144 3,226 Redman 	7,259 8,328 6,874 15,387 1,399 5,759 3,272 . Finfish .

Table 18. U.S. Virgin Islands, New Form (1994-2003). Expanded Landings by year, district and category.

Expanded Landings by Category (New Form 1994-2003) STT/STJ

	Nrows	Grouper	Snapper	Grunt	Jack	Surgeon	Parrot	Shellfish	Trigger	Angel	Barra Goa	at I	Mackerel	Porgy	Offshore
1994															
1995															
1996 1997	407	705	6.440	0.740	4.507	4 700	2.002	1.007	0.054	1 242	0.4	454	600	270	620
1997	467 2,177	765 15,469	,	2,713 14,863	4,597 8,569	1,733 16,156	3,693 21,891	1,007 10,401	2,654 29,170	,	84 1,078	154 792	689 2,912	279 2,574	638 986
1999	4,216	34,131	86,368	26,582	27,300	27,598	39,884	19,379			1,414	985	5,316	11,228	1,398
2000	4,947	37,235	,	25,458	47,220	28,522	37,046	23,101	55,756		1,334	854	4,214	18,765	2,362
2001	5,623	40,884		34,051	55,691	35,145	51,187	26,956			2,046	782	5,136	23,157	213
2002	5,398	40,269		35,619	52,711	38,215	49,065	27,756			3,331	316	7,093	23,208	
2003	2,726	22,732	60,566	18,836	26,071	20,033	27,463	15,273	38,062	3,887	629	43	3,124	12,338	
	1														
	Lobster	Conch	Whelk	Hogfish	Shark	Squirrel	Gar	Marlin	WhtMarlin	BlueMarlin	Pampano Silv	er	Kingfish	Redman	Finfish
1994 1995															
1995															
1997	2,345	73	1,402	16	85										781
1998	22,572	186		334	239	1,598	•	-	•	•		•	•	•	14,892
1999	52,921	1,708		2,489	1,151	3,089								771	5,140
2000	49,442	1,159		3,461	40	3,231		401					431	701	59
2001	54,134	1,762	6,584	157	16	6,137	86	-		3					-
2002	65,809	2,324	2,098	54	7,925	3,789	1,211	175					•	1,462	610
2003	39,327	2,171	919	25	74	545	511	310	•	-				945	
QTY															
STX															
Year	Nrows	Grouper	Snapper	Grunt	Jack	Surgeon	Parrot	Shellfish	Trigger	Angel	Barra Goa	at I	Mackerel	Porgy	Offshore
<u>Year</u> 1994	228	524	5,479					142							
<u>Year</u> 1994 1995	228 517	524 450	5,479 5,191	1,845	745	. 563	4,008	142 160	1,155	. 32	436	57	. 50		3,657
Year 1994 1995 1996	228 517 3,590	524 450 4,948	5,479 5,191 24,209	1,845 11,252	745 12,440	563 8,439	4,008 45,349	142 160 1,828	1,155 6,945	32 2,339	436 3,311	57 1,805	50 977		3,657 7,454
Year 1994 1995 1996 1997	228 517 3,590 8,230	524 450 4,948 12,608	5,479 5,191 24,209 54,569	1,845 11,252 30,602	745 12,440 21,249	563 8,439 24,557	4,008 45,349 126,552	142 160 1,828 5,546	1,155 6,945 16,737	32 2,339 5,375	. 436 3,311 6,969	57 1,805 5,429	50 977 3,108		3,657 7,454 8,644
Year 1994 1995 1996 1997 1998	228 517 3,590 8,230 8,623	524 450 4,948 12,608 18,192	5,479 5,191 24,209 54,569 61,162	1,845 11,252 30,602 32,545	745 12,440 21,249 12,705	563 8,439 24,557 34,301	4,008 45,349 126,552 139,155	142 160 1,828 5,546 6,224	1,155 6,945 16,737 25,776	32 2,339 5,375 6,860	. 436 3,311 6,969 6,545	57 1,805 5,429 3,855	50 977 3,108 3,436		3,657 7,454 8,644 7,119
Year 1994 1995 1996 1997 1998 1999	228 517 3,590 8,230 8,623 8,507	524 450 4,948 12,608 18,192 20,445	5,479 5,191 24,209 54,569 61,162 64,763	1,845 11,252 30,602 32,545 30,097	745 12,440 21,249 12,705 15,453	563 8,439 24,557 34,301 26,656	4,008 45,349 126,552 139,155 159,346	142 160 1,828 5,546 6,224 6,690	1,155 6,945 16,737 25,776 24,080	32 2,339 5,375 6,860 3,261	436 3,311 6,969 6,545 8,533	57 1,805 5,429 3,855 3,741	50 977 3,108 3,436 4,410		3,657 7,454 8,644 7,119 15,849
Year 1994 1995 1996 1997 1998 1999 2000	228 517 3,590 8,230 8,623 8,507 9,822	524 450 4,948 12,608 18,192 20,445 21,841	5,479 5,191 24,209 54,569 61,162 64,763 81,500	1,845 11,252 30,602 32,545 30,097 28,517	. 745 12,440 21,249 12,705 15,453 13,668	563 8,439 24,557 34,301 26,656 30,892	4,008 45,349 126,552 139,155 159,346 165,211	142 160 1,828 5,546 6,224 6,690 6,116	1,155 6,945 16,737 25,776 24,080 22,388	32 2,339 5,375 6,860 3,261 43	436 3,311 6,969 6,545 8,533 11,368	57 1,805 5,429 3,855 3,741 2,696	50 977 3,108 3,436 4,410 8,081	1,452 2,076	3,657 7,454 8,644 7,119 15,849 1,441
Year 1994 1995 1996 1997 1998 1999 2000 2001	228 517 3,590 8,230 8,623 8,507 9,822 12,243	524 450 4,948 12,608 18,192 20,445 21,841 28,378	5,479 5,191 24,209 54,569 61,162 64,763 81,500 119,049	1,845 11,252 30,602 32,545 30,097 28,517 38,359	. 745 12,440 21,249 12,705 15,453 13,668 24,145	. 563 8,439 24,557 34,301 26,656 30,892 36,884	. 4,008 45,349 126,552 139,155 159,346 165,211 192,172	142 160 1,828 5,546 6,224 6,690 6,116 8,502	1,155 6,945 16,737 25,776 24,080 22,388 30,398	32 2,339 5,375 6,860 3,261 43	436 3,311 6,969 6,545 8,533 11,368 12,216	57 1,805 5,429 3,855 3,741 2,696 2,923	50 977 3,108 3,436 4,410 8,081 7,331	1,452 2,076 4,959	3,657 7,454 8,644 7,119 15,849 1,441 5,932
Year 1994 1995 1996 1997 1998 1999 2000	228 517 3,590 8,230 8,623 8,507 9,822	524 450 4,948 12,608 18,192 20,445 21,841	5,479 5,191 24,209 54,569 61,162 64,763 81,500 119,049 155,007	1,845 11,252 30,602 32,545 30,097 28,517	. 745 12,440 21,249 12,705 15,453 13,668	563 8,439 24,557 34,301 26,656 30,892	4,008 45,349 126,552 139,155 159,346 165,211	142 160 1,828 5,546 6,224 6,690 6,116	1,155 6,945 16,737 25,776 24,080 22,388 30,398 36,083	32 2,339 5,375 6,860 3,261 43	436 3,311 6,969 6,545 8,533 11,368 12,216	57 1,805 5,429 3,855 3,741 2,696	50 977 3,108 3,436 4,410 8,081	1,452 2,076	3,657 7,454 8,644 7,119 15,849 1,441 5,932 3,370
Year 1994 1995 1996 1997 1998 1999 2000 2001 2002	228 517 3,590 8,230 8,623 8,507 9,822 12,243 13,703 6,486	524 450 4,948 12,608 18,192 20,445 21,841 28,378 42,062 20,677	5,479 5,191 24,209 54,569 61,162 64,763 81,500 119,049 155,007 69,856	1,845 11,252 30,602 32,545 30,097 28,517 38,359 43,905 18,726	745 12,440 21,249 12,705 15,453 13,668 24,145 17,625 5,689	563 8,439 24,557 34,301 26,656 30,892 36,884 47,519 17,919	4,008 45,349 126,552 139,155 159,346 165,211 192,172 227,212 90,704	142 160 1,828 5,546 6,224 6,690 6,116 8,502 9,996 5,870	1,155 6,945 16,737 25,776 24,080 22,388 30,398 36,083 11,973	32 2,339 5,375 6,860 3,261 43	436 3,311 6,969 6,545 8,533 11,368 12,216 19,554 7,773	57 1,805 5,429 3,855 3,741 2,696 2,923 6,053 2,086	50 977 3,108 3,436 4,410 8,081 7,331 14,284 4,401	1,452 2,076 4,959 9,418 3,322	3,657 7,454 8,644 7,119 15,849 1,441 5,932 3,370
Year 1994 1995 1996 1997 1998 2000 2001 2002 2003	228 517 3,590 8,230 8,623 8,507 9,822 12,243 13,703 6,486	524 450 4,948 12,608 18,192 20,445 21,841 28,378 42,062	5,479 5,191 24,209 54,569 61,162 64,763 81,500 119,049 155,007	1,845 11,252 30,602 32,545 30,097 28,517 38,359 43,905 18,726	. 745 12,440 21,249 12,705 15,453 13,668 24,145 17,625 5,689	. 563 8,439 24,557 34,301 26,656 30,892 36,884 47,519 17,919 Squirrel	4,008 45,349 126,552 139,155 159,346 165,211 192,172 227,212	142 160 1,828 5,546 6,224 6,690 6,116 8,502 9,996	1,155 6,945 16,737 25,776 24,080 22,388 30,398 36,083	32 2,339 5,375 6,860 3,261 43	436 3,311 6,969 6,545 8,533 11,368 12,216 19,554	57 1,805 5,429 3,855 3,741 2,696 2,923 6,053 2,086	50 977 3,108 3,436 4,410 8,081 7,331 14,284 4,401	1,452 2,076 4,959 9,418 3,322	3,657 7,454 8,644 7,119 15,849 1,441 5,932 3,370
Year 1994 1995 1996 1997 1998 2000 2001 2002 2003	228 517 3,590 8,230 8,623 8,507 9,822 12,243 13,703 6,486 Lobster	524 450 4,948 12,608 18,192 20,445 21,841 28,378 42,062 20,677	5,479 5,191 24,209 54,569 61,162 64,763 81,500 119,049 155,007 69,856 Whelk	1,845 11,252 30,602 32,545 30,097 28,517 38,359 43,905 18,726	. 745 12,440 21,249 12,705 15,453 13,668 24,145 17,625 5,689 Shark	. 563 8,439 24,557 34,301 26,656 30,892 36,884 47,519 17,919 Squirrel	4,008 45,349 126,552 139,155 159,346 165,211 192,172 227,212 90,704	142 160 1,828 5,546 6,224 6,690 6,116 8,502 9,996 5,870	1,155 6,945 16,737 25,776 24,080 22,388 30,398 36,083 11,973	32 2,339 5,375 6,860 3,261 43	436 3,311 6,969 6,545 8,533 11,368 12,216 19,554 7,773	57 1,805 5,429 3,855 3,741 2,696 2,923 6,053 2,086	50 977 3,108 3,436 4,410 8,081 7,331 14,284 4,401	1,452 2,076 4,959 9,418 3,322	3,657 7,454 8,644 7,119 15,849 1,441 5,932 3,370
Year 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003	228 517 3,590 8,230 8,623 8,507 9,822 12,243 13,703 6,486 Lobster	524 450 4,948 12,608 18,192 20,445 21,841 28,378 42,062 20,677 Conch	5,479 5,191 24,209 54,569 61,162 64,763 81,500 119,049 155,007 69,856 Whelk	1,845 11,252 30,602 32,545 30,097 28,517 38,359 43,905 18,726	. 745 12,440 21,249 12,705 15,453 13,668 24,145 17,625 5,689 Shark	. 563 8,439 24,557 34,301 26,656 30,892 36,884 47,519 17,919 Squirrel	4,008 45,349 126,552 139,155 159,346 165,211 192,172 227,212 90,704	142 160 1,828 5,546 6,224 6,690 6,116 8,502 9,996 5,870	1,155 6,945 16,737 25,776 24,080 22,388 30,398 36,083 11,973	32 2,339 5,375 6,860 3,261 43	436 3,311 6,969 6,545 8,533 11,368 12,216 19,554 7,773	57 1,805 5,429 3,855 3,741 2,696 2,923 6,053 2,086	50 977 3,108 3,436 4,410 8,081 7,331 14,284 4,401	1,452 2,076 4,959 9,418 3,322	3,657 7,454 8,644 7,119 15,849 1,441 5,932 3,370
Year 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 1994 1995 1996	228 517 3,590 8,230 8,623 8,507 9,822 12,243 13,703 6,486 Lobster	524 450 4,948 12,608 18,192 20,445 21,841 28,378 42,062 20,677 Conch	5,479 5,191 24,209 54,569 61,162 64,763 81,500 119,049 155,007 69,856 Whelk	. 1,845 11,252 30,602 32,545 30,097 28,517 38,359 43,905 18,726 Hogfish	. 745 12,440 21,249 12,705 15,453 13,668 24,145 17,625 5,689 Shark . 116	. 563 8,439 24,557 34,301 26,656 30,892 36,884 47,519 17,919 Squirrel	. 4,008 45,349 126,552 139,155 159,346 165,211 192,172 227,212 90,704 Gar	142 160 1,828 5,546 6,224 6,690 6,116 8,502 9,996 5,870 Marlin	1,155 6,945 16,737 25,776 24,080 22,388 30,398 36,083 11,973	32 2,339 5,375 6,860 3,261 43	436 3,311 6,969 6,545 8,533 11,368 12,216 19,554 7,773	57 1,805 5,429 3,855 3,741 2,696 2,923 6,053 2,086	50 977 3,108 3,436 4,410 8,081 7,331 14,284 4,401	1,452 2,076 4,959 9,418 3,322	. 3,657 7,454 8,644 7,119 15,849 1,441 5,932 3,370
Year 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 1994 1995 1996 1997	228 517 3,590 8,230 8,623 8,507 9,822 12,243 13,703 6,486 Lobster 381 12,746 30,138	524 450 4,948 12,608 18,192 20,445 21,841 28,378 42,062 20,677 Conch 1,100 13,833 35,576	5,479 5,191 24,209 54,569 61,162 64,763 81,500 119,049 155,007 69,856 Whelk	. 1,845 11,252 30,602 32,545 30,097 28,517 38,359 43,905 18,726 Hogfish	. 745 12,440 21,249 12,705 15,453 13,668 24,145 17,625 5,689 Shark . 116 555 61	. 563 8,439 24,557 34,301 26,656 30,892 36,884 47,519 17,919 Squirrel	. 4,008 45,349 126,552 139,155 159,346 165,211 192,172 227,212 90,704 Gar	142 160 1,828 5,546 6,224 6,690 6,116 8,502 9,996 5,870 Marlin	. 1,155 6,945 16,737 25,776 24,080 22,388 30,398 36,083 11,973 WhtMarlin	32 2,339 5,375 6,860 3,261 43	436 3,311 6,969 6,545 8,533 11,368 12,216 19,554 7,773	57 1,805 5,429 3,855 3,741 2,696 2,923 6,053 2,086	50 977 3,108 3,436 4,410 8,081 7,331 14,284 4,401	1,452 2,076 4,959 9,418 3,322	3,657 7,454 8,644 7,119 15,849 1,441 5,932 3,370
Year 1994 1995 1996 1997 1998 2000 2001 2002 2003 1994 1995 1996 1997 1998	228 517 3,590 8,230 8,623 8,507 9,822 12,243 13,703 6,486 Lobster	524 450 4,948 12,608 18,192 20,445 21,841 28,378 42,062 20,677 Conch 1,100 13,833 35,576 59,670	5,479 5,191 24,209 54,569 61,162 64,763 81,500 119,049 155,007 69,856 Whelk	. 1,845 11,252 30,602 32,545 30,097 28,517 38,359 43,905 18,726 Hogfish	. 745 12,440 21,249 12,705 15,453 13,668 24,145 17,625 5,689 Shark . 116 555 61	. 563 8,439 24,557 34,301 26,656 30,892 36,884 47,519 17,919 Squirrel	. 4,008 45,349 126,552 139,155 159,346 165,211 192,172 227,212 90,704 Gar 	142 160 1,828 5,546 6,224 6,690 6,116 8,502 9,996 5,870 Marlin	. 1,155 6,945 16,737 25,776 24,080 22,388 30,398 36,083 11,973 WhtMarlin	32 2,339 5,375 6,860 3,261 43	436 3,311 6,969 6,545 8,533 11,368 12,216 19,554 7,773	57 1,805 5,429 3,855 3,741 2,696 2,923 6,053 2,086	50 977 3,108 3,436 4,410 8,081 7,331 14,284 4,401	1,452 2,076 4,959 9,418 3,322	. 3,657 7,454 8,644 7,119 15,849 1,441 5,932 3,370
Year 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 1994 1995 1996 1997 1998 1999	228 517 3,590 8,230 8,623 8,507 9,822 12,243 13,703 6,486 Lobster	524 450 4,948 12,608 18,192 20,445 21,841 28,378 42,062 20,677 Conch	5,479 5,191 24,209 54,569 61,162 64,763 81,500 119,049 155,007 69,856 Whelk	. 1,845 11,252 30,602 32,545 30,097 28,517 38,359 43,905 18,726 Hogfish	. 745 12,440 21,249 12,705 15,453 13,668 24,145 17,625 5,689 Shark . 116 555 61 77	. 563 8,439 24,557 34,301 26,656 30,892 36,884 47,519 17,919 Squirrel 	. 4,008 45,349 126,552 139,155 159,346 165,211 192,172 227,212 90,704 Gar 	142 160 1,828 5,546 6,224 6,690 6,116 8,502 9,996 5,870 Marlin	. 1,155 6,945 16,737 25,776 24,080 22,388 36,083 11,973 WhtMarlin 	32 2,339 5,375 6,860 3,261 43	436 3,311 6,969 6,545 8,533 11,368 12,216 19,554 7,773	57 1,805 5,429 3,855 3,741 2,696 2,923 6,053 2,086	50 977 3,108 3,436 4,410 8,081 7,331 14,284 4,401	1,452 2,076 4,959 9,418 3,322	. 3,657 7,454 8,644 7,119 15,849 1,441 5,932 3,370
Year 1994 1995 1996 1997 1998 2000 2001 2002 2003 1994 1995 1996 1997 1998	228 517 3,590 8,230 8,623 8,507 9,822 12,243 13,703 6,486 Lobster	524 450 4,948 12,608 18,192 20,445 21,841 28,378 42,062 20,677 Conch	5,479 5,191 24,209 54,569 61,162 64,763 81,500 119,049 155,007 69,856 Whelk	. 1,845 11,252 30,602 32,545 30,097 28,517 38,359 43,905 18,726 Hogfish 	. 745 12,440 21,249 12,705 15,453 13,668 24,145 17,625 5,689 Shark . 116 555 61 77 82	. 563 8,439 24,557 34,301 26,656 30,892 36,884 47,519 17,919 Squirrel 	. 4,008 45,349 126,552 139,155 159,346 165,211 192,172 227,212 90,704 Gar 	142 160 1,828 5,546 6,224 6,690 6,116 8,502 9,996 5,870 Marlin	. 1,155 6,945 16,737 25,776 24,080 22,388 30,398 36,083 11,973 WhtMarlin 	32 2,339 5,375 6,860 3,261 43	436 3,311 6,969 6,545 8,533 11,368 12,216 19,554 7,773	57 1,805 5,429 3,855 3,741 2,696 2,923 6,053 2,086	50 977 3,108 3,436 4,410 8,081 7,331 14,284 4,401	1,452 2,076 4,959 9,418 3,322	. 3,657 7,454 8,644 7,119 15,849 1,441 5,932 3,370
Year 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 1994 1995 1996 1997 1998 1999 2000	228 517 3,590 8,230 8,623 8,507 9,822 12,243 13,703 6,486 Lobster	524 450 4,948 12,608 18,192 20,445 21,841 28,378 42,062 20,677 Conch	5,479 5,191 24,209 54,569 61,162 64,763 81,500 119,049 155,007 69,856 Whelk	. 1,845 11,252 30,602 32,545 30,097 28,517 38,359 43,905 18,726 Hogfish 	. 745 12,440 21,249 12,705 15,453 13,668 24,145 17,625 5,689 Shark . 116 555 61 77 82	. 563 8,439 24,557 34,301 26,656 30,892 36,884 47,519 17,919 Squirrel 	. 4,008 45,349 126,552 139,155 159,346 165,211 192,172 227,212 90,704 Gar 	142 160 1,828 5,546 6,224 6,690 6,116 8,502 9,996 5,870 Marlin	. 1,155 6,945 16,737 25,776 24,080 22,388 30,398 36,083 11,973 WhtMarlin 	32 2,339 5,375 6,860 3,261 43	436 3,311 6,969 6,545 8,533 11,368 12,216 19,554 7,773	57 1,805 5,429 3,855 3,741 2,696 2,923 6,053 2,086	50 977 3,108 3,436 4,410 8,081 7,331 14,284 4,401	. 1,452 2,076 4,959 9,418 3,322 Redman 	. 3,657 7,454 8,644 7,119 15,849 1,441 5,932 3,370
Year 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 1994 1995 1996 1997 1998 1998 1999 2000 2001	228 517 3,590 8,230 8,623 8,507 9,822 12,243 13,703 6,486 Lobster	524 450 4,948 12,608 18,192 20,445 21,841 28,378 42,062 20,677 Conch 1,100 13,833 35,576 59,670 44,003 68,410 96,116	5,479 5,191 24,209 54,569 61,162 64,763 81,500 119,049 155,007 69,856 Whelk	. 1,845 11,252 30,602 32,545 30,097 28,517 38,359 43,905 18,726 Hogfish 	. 745 12,440 21,249 12,705 15,453 13,668 24,145 17,625 5,689 Shark . 116 555 61 77 82 33	. 563 8,439 24,557 34,301 26,656 30,892 36,884 47,519 17,919 Squirrel . 7 6 27 107 6 12	. 4,008 45,349 126,552 139,155 159,346 165,211 192,172 227,212 90,704 Gar 	142 160 1,828 5,546 6,224 6,690 6,116 8,502 9,996 5,870 Marlin 	. 1,155 6,945 16,737 25,776 24,080 22,388 30,398 36,083 11,973 WhtMarlin 	32 2,339 5,375 6,860 3,261 43	436 3,311 6,969 6,545 8,533 11,368 12,216 19,554 7,773	57 1,805 5,429 3,855 3,741 2,696 2,923 6,053 2,086	50 977 3,108 3,436 4,410 8,081 7,331 14,284 4,401 Kingfish	. 1,452 2,076 4,959 9,418 3,322 Redman 	. 3,657 7,454 8,644 7,119 15,849 1,441 5,932 3,370

Table 19. Proportion (percent) of Reported (same as Expanded) landings by species category and gear type from NEW Form (1994-2003).

Proportion of Landings By Gear Type from New Form (1994-2003)

0.43%

1.12%

0.02%

6.51%

1.16%

95.94%

2.76%

1.98%

97.70%

0.46%

33.23%

0.097%

Seine Nets

Traps/Lines

Traps/Nets/Lines

	% of Total														
GEAR TYPE	byGear	Grouper	Snapper	Grunt	Jack	Surgeon	Parrot	Shellfish	Trigger	Angel	Barra	Goat	Mackerel	Porgy	Offshore
Unknown1,2	0.69%	0.17%	0.53%	0.35%	0.11%	0.26%	0.82%	0.10%	0.10%	0.71%	0.28%	0.69%	0.25%		0.18%
Castnets	0.60%	0.10%	0.06%	0.02%	0.97%		0.00%		0.00%		0.18%	0.02%	1.57%	0.01%	
Free Diving	2.43%	1.62%	0.74%	0.91%	0.16%	0.62%	2.05%	0.42%	0.63%	3.48%	2.65%	0.27%	0.95%	0.37%	
Gillnets	3.88%	1.39%	1.43%	5.54%	3.83%	9.16%	22.08%	3.71%	3.17%	2.41%	6.29%	1.77%	0.35%	3.04%	
Gillnets/SeineNets	0.07%		0.04%	0.15%	0.16%	0.26%	0.45%	0.22%	0.08%	0.18%	0.26%	0.02%		0.21%	
Gillnets/Traps	0.10%		0.02%	0.08%	0.01%	0.17%	0.37%		0.08%		0.00%			0.02%	
Line Fishing	37.20%	26.51%	57.58%	6.09%	47.20%	1.22%	1.16%	1.72%	6.04%	1.53%	66.04%	11.26%	86.60%	2.50%	83.90%
Lines/Castnets	0.16%	0.33%	0.44%	0.07%	0.29%			0.00%			0.15%		0.22%		
Lines/SeineNets	0.03%	0.00%	0.02%	0.04%	0.09%	0.02%	0.01%	0.01%	0.01%		0.07%		0.01%	0.01%	
SFDiving/Lines	0.12%		0.12%	0.04%		0.01%	0.01%	0.01%	0.02%	0.25%			0.07%		0.07%
SFDiving/SeineNets	0.20%	0.13%	0.10%	0.81%		1.49%	0.45%	0.39%	0.41%		0.58%			0.65%	
Scuba	20.98%	14.16%	6.62%	7.12%	0.90%	4.74%	24.12%	2.23%	9.33%	8.15%	11.42%	4.30%	1.23%	6.97%	8.02%
Scuba/FreeDiving	0.16%	0.10%	0.01%	0.16%		0.00%	0.02%	0.04%	0.07%	0.94%	0.04%	0.02%	0.10%	0.02%	
Scuba/Gillnets	0.16%		0.05%	0.16%	0.06%	0.47%	0.66%	0.17%	0.04%	0.01%	0.13%	0.14%	0.02%	0.06%	
Scuba/Traps	0.13%		0.07%	0.17%	0.01%		0.10%	0.06%	0.13%	0.13%				0.04%	
Seine Nets	3.20%		2.91%	1.76%	41.85%	3.20%	3.03%	0.76%	1.01%	0.26%	1.31%	0.59%	4.06%	1.15%	0.78%
Traps/Lines	29.87%		29.48%	76.01%	4.34%	77.35%	44.59%	90.05%	78.52%	80.89%			4.58%	84.95%	7.04%
Traps/Nets/Lines	0.11%	0.00%	0.04%	0.51%	0.01%	0.91%	0.08%	0.11%	0.35%	1.08%	0.01%	0.01%			
	I						_				_				
GEAR TYPE	Lobster	Conch	Whelk	Hogfish	Shark	Squirrel	Gar	Marlin	WhtMarlin	BlueMarlin	Pampano	Silver	Kingfish	Redman	Finfish
Unknown1,2	0.29%														0.55%
Castnets	0.02%		0.02%		7.32%										7.93%
Free Diving	2.24%		59.29%												
Gillnets	1.16%		0.52%				1.05%								
Gillnets/SeineNets	0.02%														
Gillnets/Traps	0.01%														
Line Fishing	0.24%				87.79%	2.24%	72.60%	100.00%		100.00%		44.44%	85.40%		33.11%
Lines/Castnets	0.00%	0.01%													
Lines/SeineNets															
SFDiving/Lines	0.05%														
SFDiving/SeineNets	0.19%														
Scuba	61.51%		31.48%		0.15%	0.05%									
Scuba/FreeDiving	0.31%			4.06%											
Scuba/Gillnets	0.06%														
Scuba/Traps	0.11%	0.64%	0.47%												

24.75%

1.61%

28.20%

30.21%

55.56%

14.60% 100.00%

Table 20. Proportion (percent) of Snapper, Grouper, and Spiny Lobster landings by gear type from NEW Form (1994-2003) for the whole U.S. Virgin Islands.

New Form (1994-2003)	
GEARTYPE2	Grouper	Snapper
Traps/Lines	54.6%	29.5%
Line Fishing	26.5%	57.6%
Scuba	14.2%	6.6%
Gillnets	1.4%	1.4%
Seine Nets	0.5%	2.9%
Free Diving	1.6%	0.7%
Lines/Castnets	0.3%	0.4%

GEARTYPE2	Lobster
Scuba	61.51%
Traps/Lines	33.23%
Free Diving	2.24%
Gillnets	1.16%
Seine Nets	0.46%
Scuba/FreeDiving	0.31%
Unknown	0.29%
Line Fishing	0.24%
SFDiving/SeineNets	0.19%
Scuba/Traps	0.11%
Traps/Nets/Lines	0.10%
Scuba/Gillnets	0.06%
SFDiving/Lines	0.05%

Table 21. Estimated reported and expanded total landings for St. Thomas/St. John and St. Croix, U.S. Virgin Islands years 1974-2003.

Reported Total Landings

Expanded Total Landings

Year	STT/STJ	STX	TOTAL	Year	STT/STJ	STX	TOTAL
1974	57,656	0	57,656	1974	135,492	0	135,492
1975	264,787	38,208	302,995	1975	622,248	119,591	741,839
1976	224,631	59,850	284,481	1976	527,883	187,329	715,212
1977	266,236	66,511	332,747	1977	625,653	208,180	833,834
1978	478,023	77,859	555,883	1978	1,123,355	243,700	1,367,055
1979	500,965	78,047	579,012	1979	1,177,267	244,287	1,421,554
1980	506,347	53,040	559,387	1980	1,189,916	166,015	1,355,931
1981	518,385	110,360	628,744	1981	1,163,691	367,105	1,530,796
1982	499,814	170,358	670,171	1982	1,013,348	471,329	1,484,677
1983	606,387	245,296	851,682	1983	1,111,520	403,117	1,514,637
1984	606,540	317,770	924,311	1984	1,005,335	389,577	1,394,912
1985	616,324	175,621	791,945	1985	1,246,974	200,208	1,447,182
1986	513,556	115,654	629,210	1986	1,244,541	261,839	1,506,380
1987	199,833	105,676	305,509	1987	485,452	238,099	723,551
1988	6,237	51,708	57,945	1988	14,494	85,372	99,866
1989	64,675	202,256	266,931	1989	93,295	365,309	458,604
1990	434,857	346,061	780,917	1990	642,035	741,819	1,383,854
1991	1,788,133	1,308,703	3,096,836	1991	2,510,782	2,370,346	4,881,128
1992	997,031	954,964	1,951,995	1992	1,339,125	1,510,968	2,850,093
1993	606,918	503,474	1,110,391	1993	819,999	618,048	1,438,048
1994	544,124	466,129	1,010,253	1994	764,931	545,021	1,309,952
1995	705,718	373,039	1,078,757	1995	870,341	384,230	1,254,571
1996	718,405	390,387	1,108,792	1996	835,634	397,550	1,233,184
1997	571,810	522,681	1,094,491	1997	620,863	536,798	1,157,660
1998	449,827	521,902	971,729	1998	487,615	540,633	1,028,249
1999	437,302	543,270	980,572	1999	463,263	559,568	1,022,832
2000	457,195	636,076	1,093,270	2000	489,198	655,158	1,144,356
2001	556,771	817,513	1,374,283	2001	595,745	842,038	1,437,783
2002	569,813	945,292	1,515,105	2002	609,700	973,651	1,583,351
2003	300,683	452,881	753,564	2003	321,731	466,468	788,199

Table 22. Estimated reported and expanded **Spiny Lobster** landings for St. Thomas/St. John and St. Croix, U.S. Virgin Islands years 1974-2003.

Number of Landing Records Reporting Spiny Lobster Reported Spiny Lobster Landings (1974-2003)

Expanded Spiny Lobster Landings (1974-2003)

reporting	Spiny Lobs	ici		(1974-2003)				(1974-2003)				
Year	STT/STJ	STX	TOTAL	Year	STT/STJ	STX	TOTAL	Year	STT/STJ	STX	TOTAL	
1974	85	0	85	1974	2,743	0	2,743	1974	6,446	0	6,446	
1975	268	154	422	1975	6,796	5,213	12,009	1975	15,969	16,317	32,286	
1976	201	152	353	1976	6,742	3,623	10,364	1976	15,843	11,338	27,181	
1977	491	157	648	1977	19,957	8,166	28,123	1977	46,898	25,560	72,457	
1978	753	170	923	1978	58,681	4,981	63,661	1978	137,899	15,590	153,489	
1979	568	87	655	1979	25,762	3,078	28,840	1979	60,541	9,634	70,176	
1980	601	65	666	1980	39,796	1,276	41,072	1980	93,520	3,994	97,514	
1981	637	91	728	1981	38,059	2,116	40,175	1981	83,777	6,916	90,693	
1982	647	148	795	1982	38,626	2,692	41,317	1982	78,754	8,462	87,216	
1983	702	248	950	1983	40,825	4,480	45,305	1983	75,231	7,188	82,419	
1984	621	347	968	1984	35,979	7,564	43,543	1984	60,504	9,372	69,876	
1985	720	195	915	1985	29,314	4,426	33,739	1985	60,769	5,045	65,814	
1986	676	65	741	1986	24,103	1,573	25,676	1986	58,378	3,571	61,948	
1987	288	74	362	1987	12,102	1,546	13,648	1987	29,181	3,373	32,554	
1988	26	214	240	1988	561	7,083	7,644	1988	1,313	11,570	12,883	
1989	2	176	178	1989	18	6,480	6,498	1989	34	11,378	11,412	
1990	1,452	126	1,578	1990	70,038	11,893	81,931	1990	95,952	25,282	121,233	
1991	5,083	491	5,574	1991	204,533	15,348	219,881	1991	285,717	29,444	315,162	
1992	706	663	1,369	1992	32,189	34,399	66,588	1992	36,695	53,188	89,883	
1993	1,228	1,140	2,368	1993	64,689	33,333	98,021	1993	87,045	41,344	128,389	
1994	1,073	882	1,955	1994	47,894	26,319	74,212	1994	68,127	30,658	98,785	
1995	1,408	1,434	2,842	1995	76,941	21,600	98,541	1995	94,738	22,248	116,986	
1996	1,646	4,125	5,771	1996	106,405	26,487	132,892	1996	124,068	26,912	150,980	
1997	1,635	8,371	10,006	1997	77,086	33,842	110,928	1997	83,734	34,842	118,576	
1998	2,650	8,623	11,273	1998	53,758	41,919	95,677	1998	58,488	43,381	101,868	
1999	4,216	8,507	12,723	1999	49,975	50,884	100,859	1999	52,921	52,411	105,332	
2000	4,947	9,822	14,769	2000	46,208	84,496	130,704	2000	49,442	87,031	136,473	
2001	5,623	12,243	17,866	2001	50,592	112,297	162,889	2001	54,134	115,666	169,799	
2002	5,398	13,703	19,101	2002	61,504	115,370	176,873	2002	65,809	118,831	184,640	
2003	2,726	6,486	9,212	2003	36,754	50,617	87,371	2003	39,327	52,136	91,462	

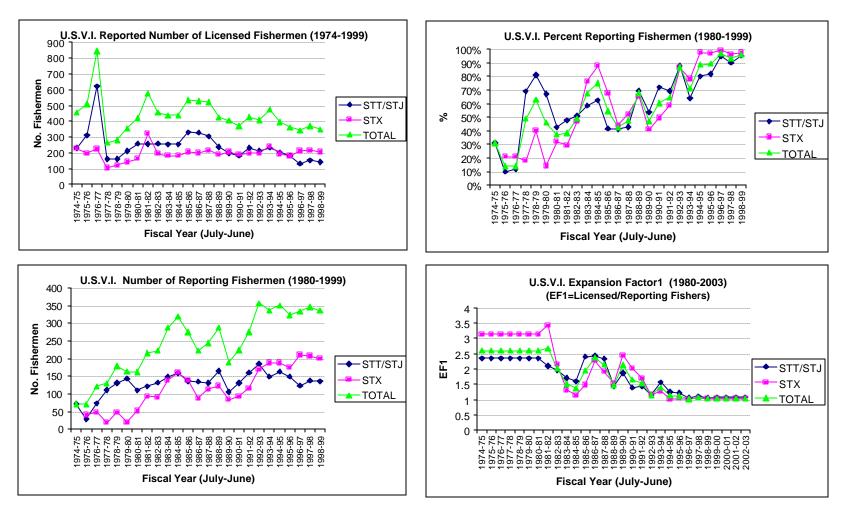
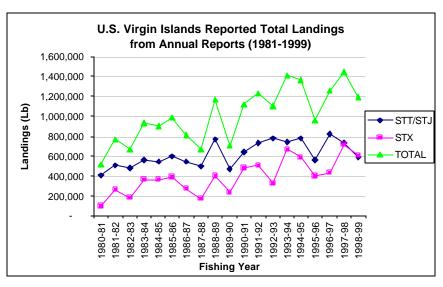


Figure 1. U.S. Virgin Islands. Number of licensed and reporting fishermen by year, percent reporting and estimates of Expansion Factor 1 from annual reports (DFW, 1981-2001). Data for years 1974-1979 and 1999-2003 was not available in annual reports; EF1 for 74-79 years was assumed constant and equal EF1 for 1980-81; EF1 for FY 99-03 were calculated as the average of the previous 3 FY (1996-97 to 1998-99).



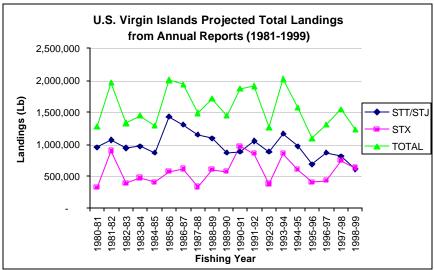
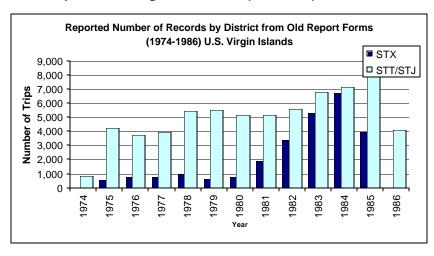
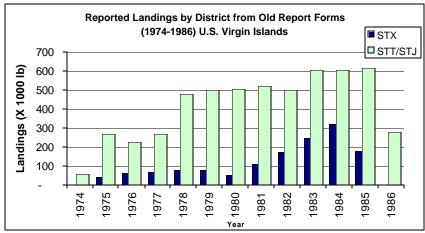


Figure 2. Reported and projected total landings by district and fishing year taken from annual performance reports (DFW,1981-2001). STT/STJ= St. Thomas/St. John, STX= St. Croix. Fishing year= July-June. Values for years19 99-00 to 2002-03 are not provided any longer in the corresponding reports.

Reported Landings in OLD Form (1974-1986)





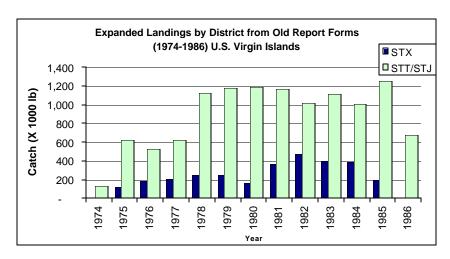


Figure 3. U.S. Virgin Islands. Old Form (1974-1986). Reported number of records, reported landings and expanded landings by year and district.

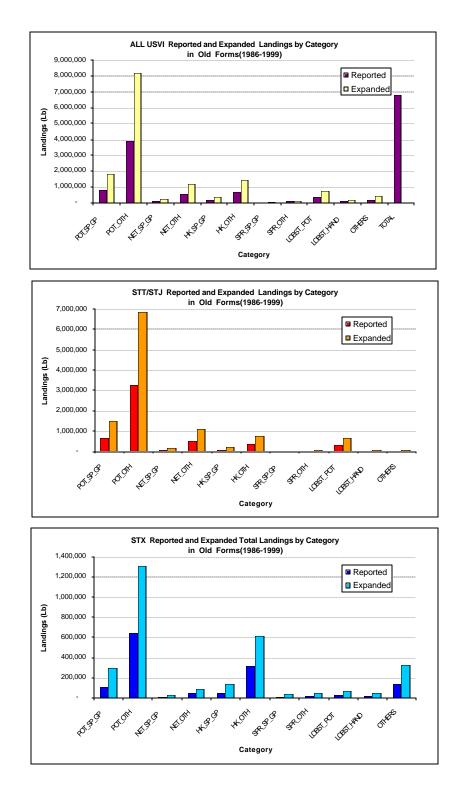
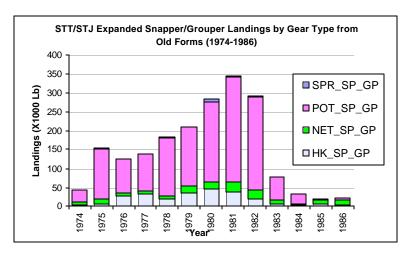


Figure 4. U.S. Virgin Islands, Old Form (1974-1986). Reported and Expanded Landings by district and category.



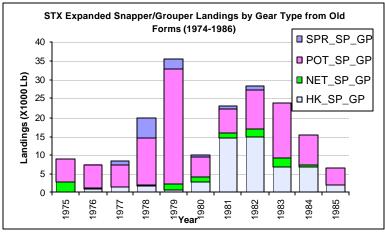
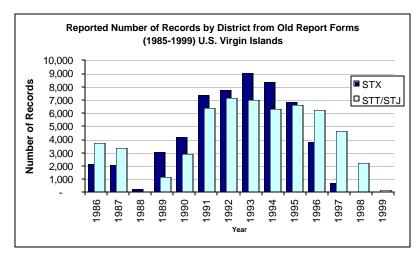
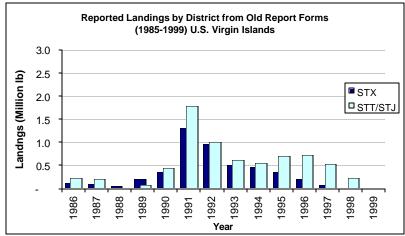


Figure 5. U.S. Virgin Islands, Old Form (1974-1986). **Snapper/Grouper** expanded landings by year and district.

OLD Report Form (1985-1999)





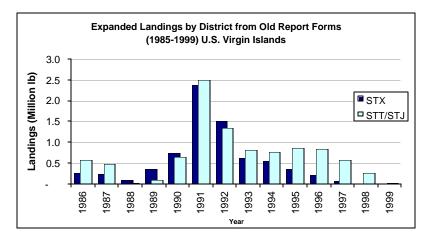
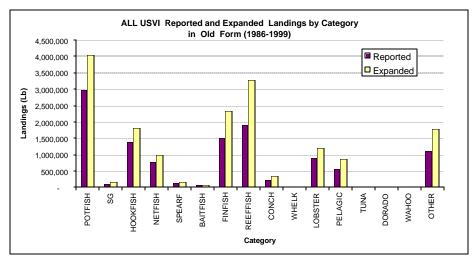
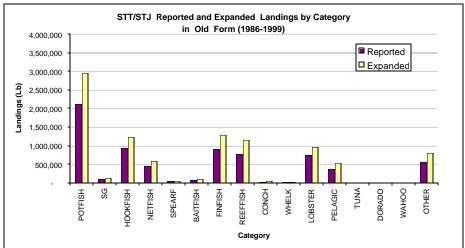


Figure 6. U.S. Virgin Islands. Old Form (1985-1999). Reported number of records, reported landings and expanded landings by year and district.





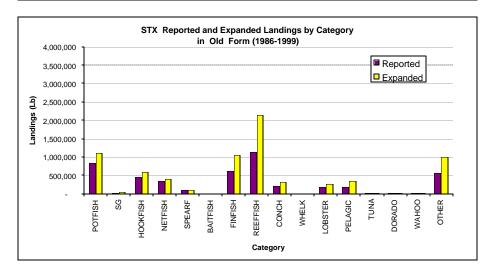
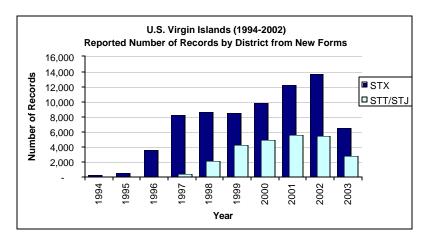
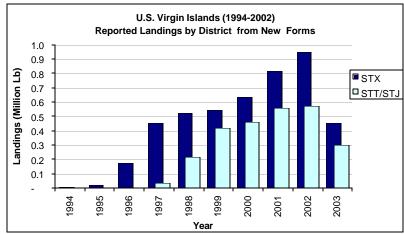


Figure 7. U.S. Virgin Islands, Old Form (1985-1999). Reported and Expanded Landings by district and category.

Reported and Expanded Landings NEW Form (1994-2003)





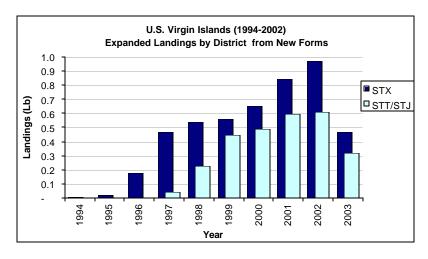
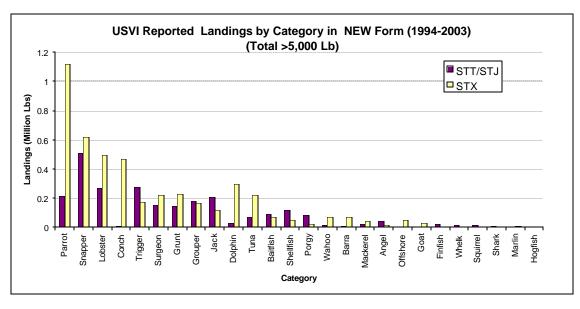


Figure 8. U.S.Virgin Islands. New Form (1994-2003). Reported number of records, reported landings and expanded landings by year and district.



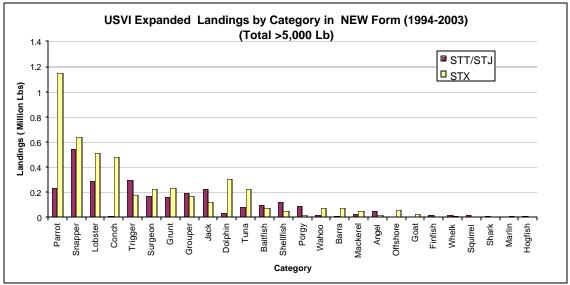
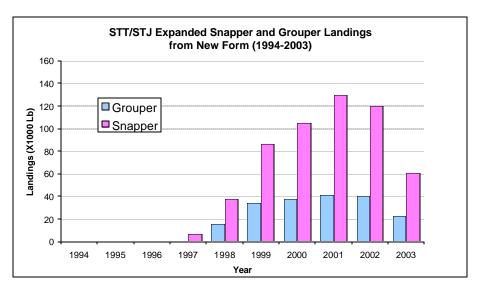


Figure 9. U.S. Virgin Islands, New Form (1994-2003). Reported and Expanded Landings by district and category.



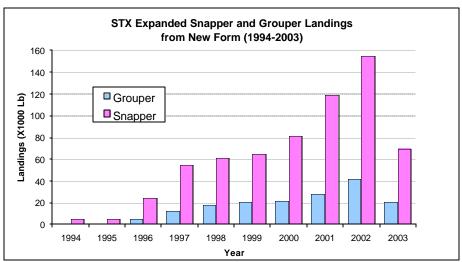


Figure 10. U.S. Virgin Islands, New Form (1994-2003). Expanded **Snapper and Grouper** landings by year and district..

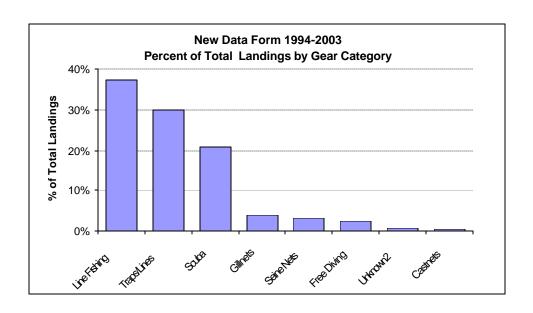


Figure 11. Percent of total landings by gear category from NEW Form (1994-2003) for the whole U.S. Virgin Islands.

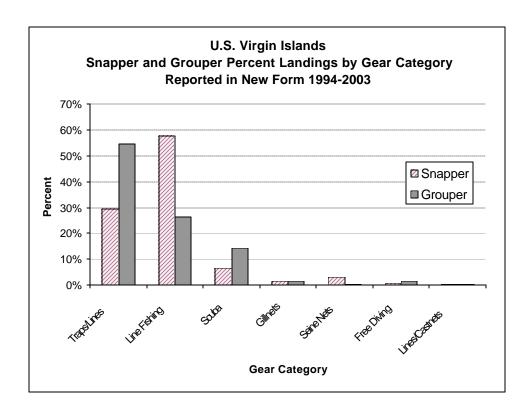


Figure 12. Percent of **(a)** Snapper, Grouper, and **(b)** Lobster landings by gear category from NEW Form (1994-2003) for the whole U.S. Virgin Islands.

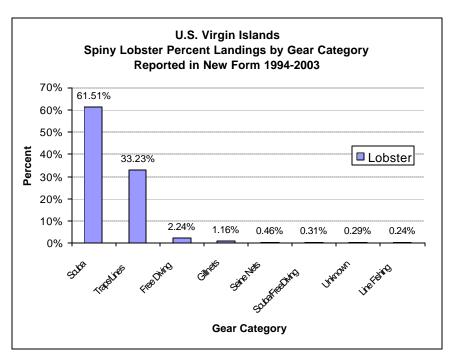


Figure 12 (b) (Cont). USVI Lobster landings by gear category from NEW Form (1994-2003).

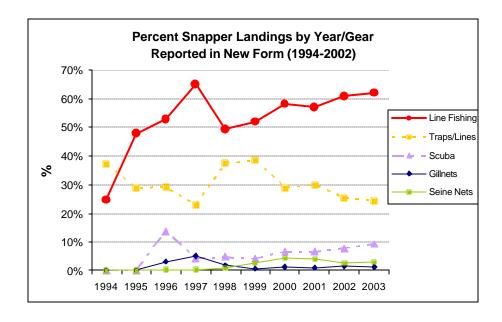


Figure 13. Proportion of snapper landings by gear type and year eported in New Form (1994-2003).

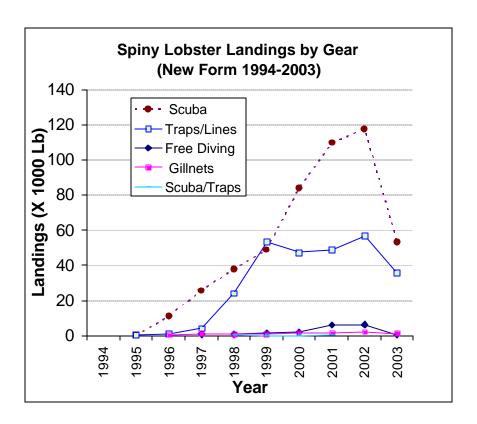
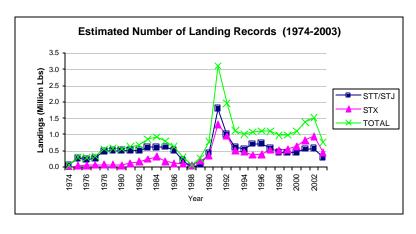
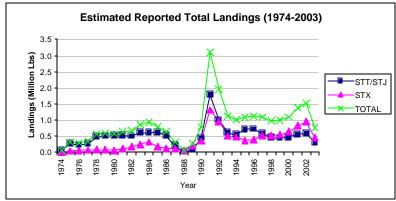


Figure 14. Spiny Lobster landings by gear from the New Form (1994-2003).





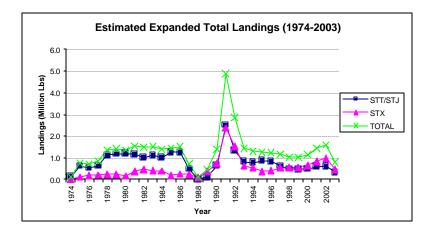
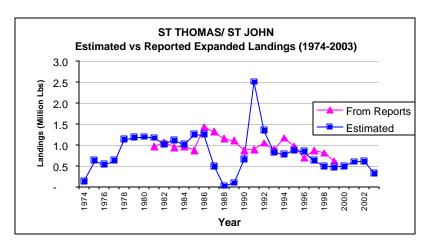


Figure 15. Estimated number of landing records, reported and expanded total landings for St. Thomas/St. John and St. Croix, years 1974-2003.



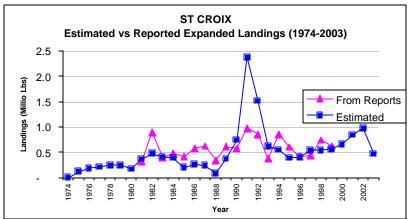
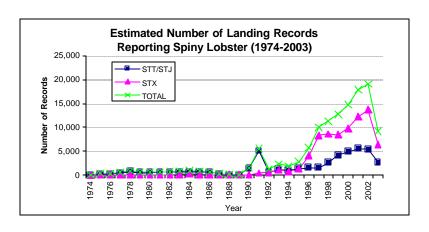
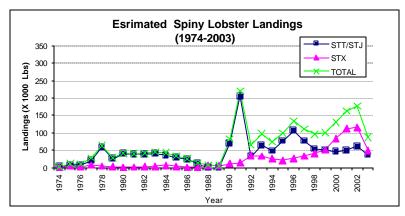


Figure 16. Comparison of estimated total landings and total landings taken from annual reports (DFW,1980-2001).





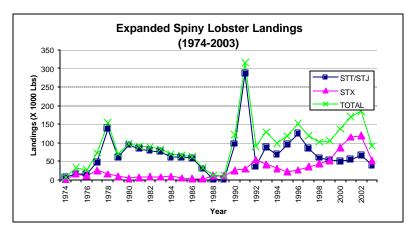


Figure 17. Estimated number of landing records reporting **Spiny Lobster**, estimated and expanded landings from 1974-2003.