#### SEDAR-8-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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### 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 time-series. 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:

Estimated Landings= 
$$EF2 * Expanded Landings$$
 (4)

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.

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### **5. References**

- Bolden, S.K. 2001. Status of the U.S. Caribbean spiny lobster fishery 1980-1999. NOAA/SEFSC Lab. Contrib. No. PRD-99/00-17.
- Cummings, N.J., Parrack, M.L., and J. W. Zweifel. 1997. The Status of Ted Hind and Coney in the U.S. Virgin Islands between 1974 and 1992. Proc. Gulf Caribb. Fish. Inst. 49:354-397.
- DFW. Beets, J., and A. Friedlander, A 1989. Virgin Islands Commercial Fisheries Research and Development Project Final Report 1984-1988. Department of Planning and Natural Resources. Division of Fish and Wildlife, U.S. Virgin Islands. Report to the National Marine Fisheries Service.
- DFW. 1990. U.S.V.I. State/Federal Commercial Fishery Statistics Project. Annual Summary Report 1989-1990. Department of Planning and Natural Resources. Division of Fish and Wildlife, U.S. Virgin Islands. Report to the National Marine Fisheries Service.
- DFW. (Barshinger, C. W.) 1991. State/Federal Commercial Fishery Statistics Project. Annual Summary Report U.S. Virgin Islands 1990-1991. Department of Planning and Natural Resources. Division of Fish and Wildlife, U.S. Virgin Islands. Report to the National Marine Fisheries Service.
- DFW. (Barshinger, C. W.) 1992. State/Federal Commercial Fishery Statistics Project. Annual Summary Report U.S. Virgin Islands 1991-1992. Department of Planning and Natural Resources. Division of Fish and Wildlife, U.S. Virgin Islands. Report to the National Marine Fisheries Service.
- DFW. (Tobias, W., Gomez, R., and B. Kojis.) 1993. Cooperative Fishery Statistics Program. Annual Summary Report 1992-1993. Department of Planning and Natural Resources. Division of Fish and Wildlife, U.S. Virgin Islands. Report to the National Marine Fisheries Service.
- DFW. (Meyers, S.) 1994. Cooperative Fishery Statistics Program. Annual Summary Report 1993-1994. Department of Planning and Natural Resources. Division of Fish and Wildlife, U.S. Virgin Islands. Report to the National Marine Fisheries Service.
- DFW. (Tobias, W.) 1997. Cooperative Fishery Statistics Program. Three Year Summary Report 1994-1997. Department of Planning and Natural Resources. Division of Fish and Wildlife, U.S. Virgin Islands. Report to the National Marine Fisheries Service.
- DFW. (Tobias, T. Gomez, R., and B. Kojis.) 2000. Cooperative Fisheries Statistics Program. Three Year Summary Report 1997-1999. Department of Planning and Natural Resources, Division of Fish and Wildlife, United States Virgin Islands. Report to the National Marine Fisheries Service.

- DFW. (Tobias, T. Gomez, R., and Mateo, I., and B. Kojis.) 2001. Cooperative Fisheries Statistics Program. Performance Report 1 April 1997-30 November 2001. Department of Planning and Natural Resources, Division of Fish and Wildlife, United States Virgin Islands. Report to the National Marine Fisheries Service.
- Poffenberger J. 2000a. U.S. Virgin Islands Landings Statistics (Prepared 6/2/2000). Unpubl. doc. SEFSC/NMFS. 6p.
- Poffenberger, J. 2000b. Inventory of the Landings Statistics for the U.S. Virgin Islands (Prepared 11/07/2000). Unpubl. doc. SEFSC/NMFS. 56 p.
- Valle-Esquivel, M. 2002a. U. S. Caribbean Queen Conch Data Update with Emphasis on the Commercial Landings Statistics. NOAA/NMFS/SEFSC Miami Laboratory SFD-01/02-169. 118p.
- Valle-Esquivel, M. 2002b. Standardized Catch Rates and Preliminary Assessment Scenariosfor Queen Conch (*Strombus gigas*) in the Caribbean. NOAA/NMFS/SEFSC Miami Laboratory SFD-02/03-184. 63p.
- Valle-Esquivel, M. and Díaz, G. 2003. Preliminary Estimation of Reported Landings, Expansion Factors and Expanded Landings for the Commercial Fisheries of the United States Virgin Islands. NOAA/NMFS/SEFSC Miami Laboratory SFD-2003-0027 (SEDAR-4-DW-08). 50p.

**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		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 8. POT FISH SNAPPER	7. HOOKFISH	Bait (B), Conch (C)	7. NET FISH	7. GRUNT
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 12. HOOK FISH SNAPPER	11. CONCH	Diving (D), Hook& Line (H)	11. CONCH	11. SHELLFISH
GROUPER 13. HOOK FISH ALL	12. WHELK	Net (N), Pot or trap (P).	12. WHELK	12. TRIGGER
OTHERS 14. SPEAR/GUN FISH		7.NO. POTS	13. BAITFISH	13. BARRA
SNAPPER GROUPER 15. SPEAR/GUN FISH ALL		8. NO. SPEAR GUNS (S_G)	14. FISH AREA 15. DISTANCE FROM	14. GOAT
OTHERS 16. LOBSTER BY POT 17. LOBSTER BY HAND		9. NO. OTHER GEAR 10. FISH AREA	SHORE (> 3 miles) 16. TUNA 17. DORADO	15. MACKEREL 16. OFFSHORE (D/T/W) 17. FAD
18.OTHER KINDS CONCH, WHELK, OCTOPUS,			IT. DORADO	17. FAD
SQUID, CLAM, OYSTERS			18. WAHOO	18. BAITFISH 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).

									_	Expansion Fa	actor1	1
FISHING	No.Licensed I	Fishers		No.Fishers R	eporting		% Fishers Re	eporting		(EF1=Licensed/F	Reporting Fish	ers)
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\* Nfis hers per fishing year).

	xpansic	n Factor 2			
			Expected		
			Reports	% of Exp	
	fishers	Nreports	(12*Nfishers)	Reports	EF2
<b>STT/STJ</b> 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
1002.02	160	1701	2029	02.00/	1 10
1992-93	169	1701	2028	83.9%	1.19 1.17
1993-94					1.17
1994-95					1.22
1995-96					
1996-97					1.03 1.20
1997-98					-
1998-99	100		1050	<b>a</b> a aa(	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 N					
	fishers	Nreports	(12*Nfishers)	Reports	EF2
<b>STX</b> 1974-75			•		
<b>STX</b> 1974-75 1975-76	41	393	492	79.9%	1.25
STX 1974-75 1975-76 1976-77	41 48	393 558	492 576	79.9% 96.9%	1.25 1.03
<b>STX</b> 1974-75 1975-76 1976-77 1977-78	41 48 19	393 558 168	492 576 228	79.9% 96.9% 73.7%	1.25 1.03 1.36
STX 1974-75 1975-76 1976-77 1977-78 1978-79	41 48 19 48	393 558 168 462	492 576 228 576	79.9% 96.9% 73.7% 80.2%	1.25 1.03 1.36 1.25
STX 1974-75 1975-76 1976-77 1977-78 1978-79 1979-80	41 48 19 48 20	393 558 168 462 131	492 576 228 576 240	79.9% 96.9% 73.7% 80.2% 54.6%	1.25 1.03 1.36 1.25 1.83
STX 1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81	41 48 19 48 20 31	393 558 168 462 131 314	492 576 228 576 240 372	79.9% 96.9% 73.7% 80.2% 54.6% 84.4%	1.25 1.03 1.36 1.25 1.83 1.18
STX 1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82	41 48 19 48 20 31 64	393 558 168 462 131 314 626	492 576 228 576 240 372 768	79.9% 96.9% 73.7% 80.2% 54.6% 84.4% 81.5%	1.25 1.03 1.36 1.25 1.83 1.18 1.23
STX 1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83	41 48 19 48 20 31 64 98	393 558 168 462 131 314 626 930	492 576 228 576 240 372 768 1176	79.9% 96.9% 73.7% 80.2% 54.6% 84.4% 81.5% 79.1%	1.25 1.03 1.36 1.25 1.83 1.18 1.23 1.26
STX 1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84	41 48 19 48 20 31 64 98 104	393 558 168 462 131 314 626 930 1118	492 576 228 576 240 372 768 1176 1248	79.9% 96.9% 73.7% 80.2% 54.6% 84.4% 81.5% 79.1% 89.6%	1.25 1.03 1.36 1.25 1.83 1.18 1.23 1.26 1.12
STX 1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84 1984-85	41 48 19 48 20 31 64 98 104 124	393 558 168 462 131 314 626 930 1118 1266	492 576 228 576 240 372 768 1176 1248 1488	79.9% 96.9% 73.7% 80.2% 54.6% 84.4% 81.5% 79.1% 89.6% 85.1%	1.25 1.03 1.36 1.25 1.83 1.18 1.23 1.26 1.12 1.18
STX 1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84	41 48 19 48 20 31 64 98 104	393 558 168 462 131 314 626 930 1118	492 576 228 576 240 372 768 1176 1248	79.9% 96.9% 73.7% 80.2% 54.6% 84.4% 81.5% 79.1% 89.6%	1.25 1.03 1.36 1.25 1.83 1.18 1.23 1.26 1.12
STX 1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84 1984-85 1985-86	41 48 19 48 20 31 64 98 104 124 23	393 558 168 462 131 314 626 930 1118 1266 38	492 576 228 576 240 372 768 1176 1248 1488 276	79.9% 96.9% 73.7% 80.2% 54.6% 84.4% 81.5% 79.1% 89.6% 85.1% 13.8%	1.25 1.03 1.36 1.25 1.83 1.18 1.23 1.26 1.12 1.18 7.26
STX 1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84 1984-85 1985-86 1992-93	41 48 19 48 20 31 64 98 104 124 23	393 558 168 462 131 314 626 930 1118 1266 38 1376	492 576 228 576 240 372 768 1176 1248 1488 276 1752	79.9% 96.9% 73.7% 80.2% 54.6% 84.4% 81.5% 79.1% 89.6% 85.1% 13.8%	1.25 1.03 1.36 1.25 1.83 1.18 1.23 1.26 1.12 1.18 7.26
STX 1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84 1984-85 1985-86 1992-93 1993-94	41 48 19 48 20 31 64 98 104 124 23	393 558 168 462 131 314 626 930 1118 1266 38	492 576 228 576 240 372 768 1176 1248 1488 276	79.9% 96.9% 73.7% 80.2% 54.6% 84.4% 81.5% 79.1% 89.6% 85.1% 13.8%	1.25 1.03 1.36 1.25 1.83 1.18 1.23 1.26 1.12 1.18 7.26 1.27 1.28
STX 1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84 1984-85 1985-86 1992-93 1993-94 1994-95	41 48 19 48 20 31 64 98 104 124 23	393 558 168 462 131 314 626 930 1118 1266 38 1376	492 576 228 576 240 372 768 1176 1248 1488 276 1752	79.9% 96.9% 73.7% 80.2% 54.6% 84.4% 81.5% 79.1% 89.6% 85.1% 13.8%	1.25 1.03 1.36 1.25 1.83 1.18 1.23 1.26 1.12 1.18 7.26 1.27 1.28 1.37
STX 1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84 1984-85 1985-86 1992-93 1993-94 1994-95 1995-96	41 48 19 48 20 31 64 98 104 124 23	393 558 168 462 131 314 626 930 1118 1266 38 1376	492 576 228 576 240 372 768 1176 1248 1488 276 1752	79.9% 96.9% 73.7% 80.2% 54.6% 84.4% 81.5% 79.1% 89.6% 85.1% 13.8%	1.25 1.03 1.36 1.25 1.83 1.18 1.23 1.26 1.12 1.18 7.26 1.27 1.28 1.37 1.59
STX 1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84 1984-85 1985-86 1992-93 1993-94 1994-95 1995-96 1996-97	41 48 19 48 20 31 64 98 104 124 23	393 558 168 462 131 314 626 930 1118 1266 38 1376	492 576 228 576 240 372 768 1176 1248 1488 276 1752	79.9% 96.9% 73.7% 80.2% 54.6% 84.4% 81.5% 79.1% 89.6% 85.1% 13.8%	1.25 1.03 1.36 1.25 1.83 1.18 1.23 1.26 1.12 1.18 7.26 1.27 1.28 1.37 1.59 1.37
STX 1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84 1984-85 1985-86 1992-93 1993-94 1994-95 1995-96 1996-97 1997-98	41 48 19 48 20 31 64 98 104 124 23	393 558 168 462 131 314 626 930 1118 1266 38 1376	492 576 228 576 240 372 768 1176 1248 1488 276 1752	79.9% 96.9% 73.7% 80.2% 54.6% 84.4% 81.5% 79.1% 89.6% 85.1% 13.8%	1.25 1.03 1.36 1.25 1.83 1.18 1.23 1.26 1.12 1.18 7.26 1.27 1.28 1.37 1.59 1.37 1.23
STX 1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84 1984-85 1985-86 1992-93 1993-94 1994-95 1995-96 1996-97 1997-98 1998-99	41 48 19 48 20 31 64 98 104 124 23 146 193	393 558 168 462 131 314 626 930 1118 1266 38 1376 1814	492 576 228 576 240 372 768 1176 1248 1488 276 1752 2316	79.9% 96.9% 73.7% 80.2% 54.6% 84.4% 81.5% 79.1% 89.6% 85.1% 13.8% 78.5% 78.5% 78.3%	1.25 1.03 1.36 1.25 1.83 1.18 1.23 1.26 1.12 1.18 7.26 1.27 1.28 1.37 1.59 1.37 1.23 1.80
STX 1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84 1984-85 1985-86 1992-93 1993-94 1994-95 1995-96 1996-97 1997-98 1998-99 1999-00	41 48 19 48 20 31 64 98 104 124 23 146 193	393 558 168 462 131 314 626 930 1118 1266 38 1376 1814	492 576 228 576 240 372 768 1176 1248 1488 276 1752 2316	79.9% 96.9% 73.7% 80.2% 54.6% 84.4% 81.5% 79.1% 89.6% 85.1% 13.8% 78.5% 78.5% 78.3%	1.25 1.03 1.36 1.25 1.83 1.18 1.23 1.26 1.12 1.18 7.26 1.27 1.28 1.37 1.59 1.37 1.59 1.37 1.23 1.80 1.09
STX 1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84 1984-85 1985-86 1992-93 1993-94 1994-95 1995-96 1996-97 1997-98 1998-99 1999-00 2000-01	41 48 19 48 20 31 64 98 104 124 23 146 193 161 161	393 558 168 462 131 314 626 930 1118 1266 38 1376 1814	492 576 228 576 240 372 768 1176 1248 1488 276 1752 2316 1932	79.9% 96.9% 73.7% 80.2% 54.6% 84.4% 81.5% 79.1% 89.6% 85.1% 13.8% 78.5% 78.5% 78.3% 91.5% 95.3%	1.25 1.03 1.36 1.25 1.83 1.18 1.23 1.26 1.12 1.18 7.26 1.27 1.28 1.37 1.59 1.37 1.23 1.80 1.09 1.05
STX 1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84 1984-85 1985-86 1992-93 1993-94 1994-95 1995-96 1996-97 1997-98 1998-99 1999-00	41 48 19 48 20 31 64 98 104 124 23 146 193	393 558 168 462 131 314 626 930 1118 1266 38 1376 1814	492 576 228 576 240 372 768 1176 1248 1488 276 1752 2316	79.9% 96.9% 73.7% 80.2% 54.6% 84.4% 81.5% 79.1% 89.6% 85.1% 13.8% 78.5% 78.5% 78.3%	1.25 1.03 1.36 1.25 1.83 1.18 1.23 1.26 1.12 1.18 7.26 1.27 1.28 1.37 1.59 1.37 1.59 1.37 1.23 1.80 1.09

**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).

Pro	Projected Total Landings										
(Pr	(Projected=Reported*EF1)										
Fishing Year	STT/STJ	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)**

	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

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

# (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.

$\langle \rangle$									
(a)	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

211/211													
YR	NRecords F	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
1974	838	31,378	75,084	11,031	3,596	1,267	6,155		212	3,722	2,724	324	135,492
1975	4,267	131,683	388,902	15,543	30,035	5,020	28,343	2,240	846	11,535	4,434	3,667	622,248
1976	3,753	92,099	347,203	6,364	8,469	27,584	29,299	494	188	12,701	3,142	341	527,883
1977	3,984	98,352	344,866	9,250	46,022	30,839	47,060	165	414	35,667	11,231	1,788	625,653
1978	5,468	155,776	560,136	6,383	182,424	20,222	48,943	2,950	3,185	118,704	19,195	5,437	1,123,355
1979	5,548	155,091	601,567	20,245	217,558	32,719	62,314	1,900	12,310	53,825	6,716	13,021	1,177,267
1980	5,168	210,701	577,711	20,934	146,140	44,380	68,641	6,027	11,693	80,026	13,494	10,170	1,189,916
1981	5,157	276,489	552,300	26,971	115,546	38,688	52,860	660	10,519	76,806	6,971	5,882	1,163,691
1982	5,631	247,629	523,118	21,378	66,583	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	76,450	5,258	69,234	535	19,085	69,171	6,060	12,692	1,111,520
1984	7,133	27,606	720,441	1,064	66,800	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	77,162	7,325	128,072	540	6,454	52,954	7,815	7,909	1,246,974
1986	4,128	7,110	450,315	13,086	60,643	2,405	93,849		4,184	26,605	7,712	9,394	675,301
Total	65,890	1,498,985	6,869,132	171,463	1,097,429	239,205	766,954	17,733	95,732	666,077	104,391	90,882	11,617,984
STX													
YR	N Records F	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	E 2E0	20.000	4 500	0 4 0 0	0.004	5,349	592	2,185	408	868	11,979	
	730	5,358	20,068	1,503	2,129	2,601	5,549	552	2,105	408	000	11,979	53,040
1981	1,899	5,358 6,344	20,068 38,979	,	2,129 3,885	14,434	18,862	817	1,837	703	1,413	21,642	53,040 110,360
1981 1982		,	1	1,445	,	,	,		,			,	,
	1,899	6,344	38,979	1,445 1,938	3,885	14,434	18,862	817	1,837	703	1,413	21,642	110,360
1982	1,899 3,367	6,344 10,529	38,979 83,373	1,445 1,938 2,568	3,885 2,001	14,434 14,913	18,862 36,033	817 999	1,837 1,003	703 1,256	1,413 1,436	21,642 16,878	110,360 170,358
1982 1983	1,899 3,367 5,290	6,344 10,529 14,466	38,979 83,373 136,526	1,445 1,938 2,568 505	3,885 2,001 4,517	14,434 14,913 6,707	18,862 36,033 58,818	817 999 157	1,837 1,003 4,359	703 1,256 3,249	1,413 1,436 1,231	21,642 16,878 12,699	110,360 170,358 245,296

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

·/		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
Tota	al	57,976	7,085,978	55,631	4,682,348	113,607	11,768,326

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

# (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.

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

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

### (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.

кер		anunys	by C	alegory (		111 1900	-1999)													
STT/S	STJ												Т	OTAL						
YR	Nrecords	POTFISH	SG	HOOKFISH	NETFISH	SPEARF	BAITFISH	FINFISH	REEFFISH (	ONCH	WHELK	POTLOBSTI D	<b>IVELOBS</b> L	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								105	64342	100				18	110					64675
1990	2919							124207	175253					70038	65359					434857
1991	6367		51177					520425	337894					204533	310852				363252	
1992	7147	164455	35246	83653	30487	2178	8290	259339	192405	15	794	31287	902	32189					187982	997031
1993	7025			142080		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

# Reported Landings by Category (Old Form 1986-1999)

ST	X

STX													т	OTAL						
YEAR N	Irecords P	OTFISH	SG	HOOKFISH I	NETFISH S	SPEARF B	BAITFISH	FINFISH	REEFFISH	CONCH	WHELK	POTLOBST	DIVELOBS L	OBSTER I	PELAGIC TI	UNA	DORADO V	/AHOO (	<b>JTHER</b>	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	1	0089	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/ST	J											т	OTAL						
YR N	records P	OTFISH SG HO	DOKFISH N	NETFISH SF	PEARF B	AITFISH FI	NFISH R	EEFFISHC	ONCH W	HELK F	OTLOBSTID	IVELOBS L	OBSTER P	ELAGIC TU	JNA D	ORADO WA	AHOO O	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 .				1	731786	475005 .					285717	436719.				511442	2510782
1992	7147	187497 50754	95364	34755	2482	9451 3	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											Т	OTAL					
YEAR	Rows F	OTFISH SG HC	OKFISH N	ETFISH S	PEARF BA	ITFISH FINFISH R	EEFFISH	CONCH W	HELK PO	TLOBSTID	VELOBS LO	OBSTER P	ELAGIC TUNA I	ORADO W	AHOO 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 districtand calendar year.

	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

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

# (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/STJ

211/21	J														
Year	Nrows	Grouper	Snapper	Grunt	Jack	Surgeon	Parrot	Shellfish	Trigger	Angel	Barra Goat	t l	Mackerel	Porgy	Offshore
1997	467	689	5,783	2,445	4,142	1,561	3,327	908	2,391	1,120	) 76	139	621	251	575
1998	2,177	14,704	35,570	14,023	8,044	15,287	20,671	9,828	27,599	10,513	997	747	2,732	2,427	939
1999	4,216	32,206	81,446	25,076	25,708	26,033	37,639	18,276	49,499	9,722	1,336	931	5,035	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	1,247	798	3,938	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	1,912	731	4,800	21,642	199
2002	5,398	37,634	112,142	33,289	49,263	35,715	45,855	25,940	56,306	9,207	3,113	295	6,629	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 Silve	er l	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	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	

STX

Year	Nrows	Grouper	Snapper	Grunt	Jack	Surgeon	Parrot	Shellfish	Trigger	Angel	E	Barra	Goat	Mackerel	Porgy	Offshore	
1994	228	509	5,319			•		138								•	
1995	517	437	5,040	1,791	723	547	3,891	155	1,121		31	423	55	49		3,5	550
1996	3,590	4,897	23,919	11,119	12,275	8,347	44,820	1,810	6,867	2,	314	3,273	1,786	965		7,2	259
1997	8,226	12,181	53,071	29,735	20,706	23,839	123,015	5,393	16,270	5,	207	6,775	5,289	3,017		8,3	328
1998	8,623	17,550	59,044	31,417	12,275	33,129	134,408	6,009	24,900	6,	631	6,319	3,723	3,313		6,8	374
1999	8,507	19,850	62,877	29,221	15,003	25,880	154,705	6,495	23,379	3,	167	8,285	3,632	4,282	1,4	10 15,3	387
2000	9,822	21,205	79,127	27,687	13,270	29,992	160,399	5,938	21,736		42	11,037	2,617	7,846	2,0	16 1,3	399
2001	12,243	27,552	115,582	37,242	23,442	35,810	186,575	8,255	29,513			11,860	2,838	7,117	4,8	15 5,7	759
2002	13,703	40,837	150,492	42,626	17,112	46,135	220,595	9,705	35,032		52	18,984	5,877	13,868	9,1	44 3,2	272
2003	6,486	20,075	67,821	18,181	5,523	17,398	88,062	5,700	11,625	•		7,547	2,025	4,273	3,2	26 .	

	Lobster	Conch	Whelk	Hogfish	Shark	Squirrel	Gar	Mar	rlin	WhtMarlin	BlueMarlin	Pampa	ano Silver	Kingfish	Redman	Finfish	
1994																	
1995	370	1,068	3.			113.											
1996	12,608	13,67	7.			548.		-								-	
1997	29,184	34,520	)	106.		59	7	588 .									1
1998	41,919	57,544	4	652 .		74	6	1,173	856							-	
1999	50,884	42,72	1 1	,209 .		80	26	100 .									
2000	84,496	66,418	3	871.		32	104	303	4,970					9.		-	
2001	112,297	93,31	7	403 8	3.		6	26	1,375								
2002	115,370	98,022	2 2	.,892 .		190	12 .	-							145 .	-	
2003	50,617	59,78	5	210.		104 .		419 .									

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 Year Nrows Grouper Snapper Grunt Jack Surgeon Parrot Shellfish Trigger Angel Barra Goat Mackerel Porgy Offshore 1994 1995 1996 1997 3.693 84 467 765 6.419 2.713 4.597 1,733 1,007 2.654 1.243 154 689 279 638 1998 2,177 14,863 8,569 16,156 11,129 792 2,912 2,574 986 15,469 37,668 21,891 10,401 29,170 1,078 1999 4,216 34,131 86,368 26,582 27,300 27,598 39,884 19,379 52,478 10,208 1,414 985 5,316 11,228 1,398 2000 4,947 37,235 105,172 25,458 47,220 28,522 37,046 23,101 55,756 4,314 1,334 854 4,214 18,765 2,362 2001 5,623 51,187 2,046 23,157 40,884 129,637 34,051 55,691 35,145 26,956 60,659 8,033 782 5,136 213 2002 5,398 40,269 119,992 35,619 52,711 38,215 49,065 27,756 60,248 9,851 3,331 316 7,093 23,208 . 2003 2,726 22,732 60,566 18,836 26,071 20,033 15,273 38,062 3,887 629 43 3,124 12,338 . 27,463 Lobster Conch Whelk Hogfish Shark Gar WhtMarlin BlueMarlin Pampano Silver Kingfish Redman Finfish Squirrel Marlin 1994 1995 1996 1997 2,345 73 1,402 16 85. 781 . . 1998 22,572 186 182 334 239 1,598 . 14,892 . . 52,921 3,089 . 771 1999 1,708 1,195 2,489 1,151 5,140 . 2000 49,442 1,159 1,578 3,461 40 3,231 . 401. 431 701 59 . 2001 54,134 1,762 6,584 157 16 6,137 86. З. . . 65,809 54 1,211 175. 1,462 610 2002 2,324 2,098 7,925 3,789 . . . 2003 39,327 25 2,171 919 74 545 511 310 . 945 . .

#### STX

Year	Nrows	Grouper	Snapper	Grunt	Jack	Surgeon	Parrot	Shellfish	Trigger	Angel	E	Barra	Goat	Mackerel	Porgy	Offshore
1994	228	524	5,479			•		142								
1995	517	450	5,191	1,845	745	563	4,008	160	1,155		32	436	57	50	۱.	3,657
1996	3,590	4,948	24,209	11,252	12,440	8,439	45,349	1,828	6,945		2,339	3,311	1,805	977	· .	7,454
1997	8,230	12,608	54,569	30,602	21,249	24,557	126,552	5,546	16,737		5,375	6,969	5,429	3,108		8,644
1998	8,623	18,192	61,162	32,545	12,705	34,301	139,155	6,224	25,776		6,860	6,545	3,855	3,436	i.	7,119
1999	8,507	20,445	64,763	30,097	15,453	26,656	159,346	6,690	24,080		3,261	8,533	3,741	4,410	1,45	52 15,849
2000	9,822	21,841	81,500	28,517	13,668	30,892	165,211	6,116	22,388		43	11,368	2,696	8,081	2,07	76 1,441
2001	12,243	28,378	119,049	38,359	24,145	36,884	192,172	8,502	30,398			12,216	2,923	7,331	4,95	5,932
2002	13,703	42,062	155,007	43,905	17,625	47,519	227,212	9,996	36,083		54	19,554	6,053	14,284	9,41	8 3,370
2003	6,486	20,677	69,856	18,726	5,689	17,919	90,704	5,870	11,973			7,773	2,086	6 4,401	3,32	

	Lobster	Conch	Whelk	Hogfish	Shark	Squirrel	Gar	M	arlin	WhtMarlin	BlueMarlin	Pampa	ano Silver	Kingfish	Redman	Finfish	
1994														•		•	
1995	381	1,100	).			116.										-	
1996	12,746	13,833	3.			555 .							-				
1997	30,138	35,576	5 1	10.		61	7	611 .		-			-				1
1998	43,381	59,670	) 6	576 .		77	6	1,220	890				-				
1999	52,411	44,003	3 1,2	45 .		82	27	103 .		-			-				
2000	87,031	68,410	) 8	. 197		33	107	312	5,119					9.			
2001	115,666	96,116	5 4	15	В.		6	27	1,416	-			-				
2002	118,831	100,963	3 2,9	79.		196	12 .						-	1	49.		
2003	52,136	61,579	) 2	216 .		107.		432 .								-	

**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)
9/ of Total	

	% of Total														
GEAR TYPE	byGear	Grouper		Grunt	Jack	Surgeon		Shellfish	Trigger				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%	0.10%	0.04%	0.15%	0.16%	0.26%	0.45%	0.22%	0.08%		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%	0.08%	0.12%	0.04%		0.01%	0.01%	0.01%	0.02%		0.15%		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%	0.12%	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%	0.07%	0.17%	0.01%	0.13%	0.10%	0.06%	0.13%	0.13%	0.03%	0.04%		0.04%	
Seine Nets	3.20%	0.53%	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%	54.63%	29.48%	76.01%	4.34%	77.35%	44.59%	90.05%	78.52%	80.89%	10.39%	80.88%	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%			
GEAR TYPE	Lobster	Conch	Whelk	Hogfish	Shark	Squirrel	Gar	Marlin	WhtMarlin	BlueMarlin	Pampano	Silver	Kingfish	Redman I	Finfish
Linknown1.2													. anglion	. to a man	
Unknown1,2	0.29%	0.85%											rangnon		0.55%
Castnets	0.02%	0.85% 0.02%	0.02%		7.32%	·							<u>rangnon</u>		
Castnets Free Diving	0.02% 2.24%	0.85% 0.02% 8.83%	0.02% 59.29%										g.ion		0.55%
Castnets Free Diving Gillnets	0.02% 2.24% 1.16%	0.85% 0.02% 8.83% 1.50%	0.02%				1.05%								0.55%
Castnets Free Diving Gillnets Gillnets/SeineNets	0.02% 2.24% 1.16% 0.02%	0.85% 0.02% 8.83% 1.50% 0.01%	0.02% 59.29%												0.55%
Castnets Free Diving Gillnets Gillnets/SeineNets Gillnets/Traps	0.02% 2.24% 1.16% 0.02% 0.01%	0.85% 0.02% 8.83% 1.50% 0.01% 0.03%	0.02% 59.29% 0.52%		7.32%		1.05%								0.55% 7.93%
Castnets Free Diving Gillnets Gillnets/SeineNets Gillnets/Traps Line Fishing	0.02% 2.24% 1.16% 0.02% 0.01% 0.24%	0.85% 0.02% 8.83% 1.50% 0.01% 0.03% 0.38%	0.02% 59.29%			2.24%		100.00%		100.00%		44.44%	85.40%		0.55%
Castnets Free Diving Gillnets Gillnets/SeineNets Gillnets/Traps Line Fishing Lines/Castnets	0.02% 2.24% 1.16% 0.02% 0.01%	0.85% 0.02% 8.83% 1.50% 0.01% 0.03% 0.38%	0.02% 59.29% 0.52%		7.32%	2.24%	1.05%			100.00%					0.55% 7.93%
Castnets Free Diving Gillnets Gillnets/SeineNets Gillnets/Traps Line Fishing Lines/Castnets Lines/SeineNets	0.02% 2.24% 1.16% 0.02% 0.01% 0.24% 0.00%	0.85% 0.02% 8.83% 1.50% 0.01% 0.03% 0.38% 0.01%	0.02% 59.29% 0.52%		7.32%	2.24%	1.05%			100.00%					0.55% 7.93%
Castnets Free Diving Gillnets Gillnets/SeineNets Gillnets/Traps Line Fishing Lines/Castnets Lines/SeineNets SFDiving/Lines	0.02% 2.24% 1.16% 0.02% 0.01% 0.24% 0.00%	0.85% 0.02% 8.83% 1.50% 0.01% 0.03% 0.38% 0.01%	0.02% 59.29% 0.52%		7.32%	2.24%	1.05%			100.00%					0.55% 7.93%
Castnets Free Diving Gillnets Gillnets/SeineNets Gillnets/Traps Line Fishing Lines/Castnets Lines/SeineNets SFDiving/Lines SFDiving/SeineNets	0.02% 2.24% 1.16% 0.02% 0.01% 0.24% 0.00% 0.05% 0.19%	0.85% 0.02% 8.83% 1.50% 0.01% 0.03% 0.03% 0.01% 0.06% 0.09%	0.02% 59.29% 0.52% 0.56%		7.32% 87.79%		1.05%			100.00%					0.55% 7.93%
Castnets Free Diving Gillnets Gillnets/SeineNets Gillnets/Traps Lines/SeineNets Lines/SeineNets SFDiving/Lines SFDiving/SeineNets Scuba	0.02% 2.24% 1.16% 0.02% 0.01% 0.24% 0.00% 0.05% 0.19% 61.51%	0.85% 0.02% 8.83% 1.50% 0.01% 0.03% 0.01% 0.08% 0.01% 0.06% 0.09% 85.96%	0.02% 59.29% 0.52%		7.32%	2.24%	1.05%			100.00%					0.55% 7.93%
Castnets Free Diving Gillnets Gillnets/SeineNets Gillnets/Traps Line Fishing Lines/Castnets Lines/SeineNets SFDiving/Lines SFDiving/SeineNets Scuba Scuba/FreeDiving	0.02% 2.24% 1.16% 0.02% 0.01% 0.24% 0.00% 0.05% 0.19% 61.51% 0.31%	0.85% 0.02% 8.83% 1.50% 0.01% 0.03% 0.03% 0.01% 0.06% 0.09% 85.96% 0.01%	0.02% 59.29% 0.52% 0.56%	4.06%	7.32% 87.79%		1.05%			100.00%					0.55% 7.93%
Castnets Free Diving Gillnets Gillnets/SeineNets Gillnets/Traps Line Fishing Lines/Castnets Lines/SeineNets SFDiving/Lines SFDiving/SeineNets Scuba Scuba/FreeDiving Scuba/Gillnets	0.02% 2.24% 1.16% 0.02% 0.01% 0.24% 0.00% 0.05% 0.19% 61.51% 0.31% 0.06%	0.85% 0.02% 8.83% 1.50% 0.01% 0.03% 0.03% 0.01% 0.06% 85.96% 0.01% 0.04%	0.02% 59.29% 0.52% 0.56% 31.48%		7.32% 87.79%		1.05%			100.00%					0.55% 7.93%
Castnets Free Diving Gillnets Gillnets/SeineNets Gillnets/Traps Line Fishing Lines/Castnets Lines/SeineNets SFDiving/Lines SFDiving/SeineNets Scuba Scuba/FreeDiving Scuba/Gillnets Scuba/Traps	0.02% 2.24% 1.16% 0.02% 0.01% 0.24% 0.00% 0.05% 0.19% 61.51% 0.31% 0.06% 0.11%	0.85% 0.02% 8.83% 1.50% 0.01% 0.03% 0.03% 0.01% 0.06% 0.09% 85.96% 0.01% 0.04% 0.04%	0.02% 59.29% 0.52% 0.56% 31.48% 0.47%		7.32% 87.79% 0.15%		1.05%			100.00%					0.55% 7.93% 33.11%
Castnets Free Diving Gillnets Gillnets/SeineNets Gillnets/Traps Line Fishing Lines/Castnets Lines/SeineNets SFDiving/Lines SFDiving/SeineNets Scuba Scuba/FreeDiving Scuba/Gillnets	0.02% 2.24% 1.16% 0.02% 0.01% 0.24% 0.00% 0.19% 61.51% 0.31% 0.06% 0.11% 0.46%	0.85% 0.02% 8.83% 1.50% 0.01% 0.03% 0.03% 0.01% 0.06% 0.09% 85.96% 0.01% 0.04% 0.64% 0.43%	0.02% 59.29% 0.52% 0.56% 31.48% 0.47% 6.51%		7.32% 87.79% 0.15% 2.76%		1.05% 72.60% 24.75%			100.00%		44.44%	85.40%		0.55% 7.93% 33.11% 28.20%
Castnets Free Diving Gillnets Gillnets/SeineNets Gillnets/Traps Line Fishing Lines/Castnets Lines/SeineNets SFDiving/Lines SFDiving/SeineNets Scuba Scuba/FreeDiving Scuba/Gillnets Scuba/Traps	0.02% 2.24% 1.16% 0.02% 0.01% 0.24% 0.00% 0.05% 0.19% 61.51% 0.31% 0.06% 0.11%	0.85% 0.02% 8.83% 1.50% 0.01% 0.03% 0.38% 0.01% 0.06% 0.09% 85.96% 0.01% 0.04% 0.64% 0.43% 1.12%	0.02% 59.29% 0.52% 0.56% 31.48% 0.47%		7.32% 87.79% 0.15%		1.05%			100.00%				100.00%	0.55% 7.93% 33.11%

**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. VirginIslands years 1974-2003.

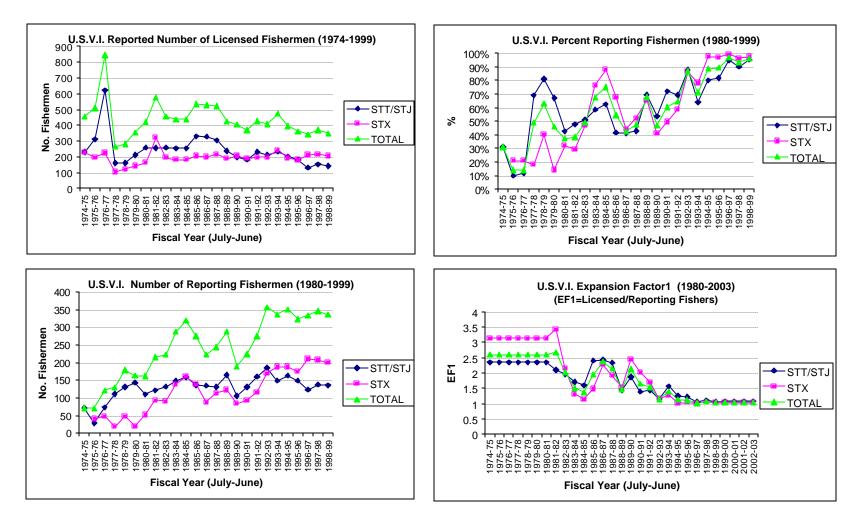
Year	STT/STJ	STX	TOTAL	Year	STT/STJ	STX	TOTAL
1974	57,656	0	57,656	1974	135,492	0	135,492
1975	264,787	38,208	302,995	1975	622,248	119,591	741,839
1976	224,631	59,850	284,481	1976	527,883	187,329	715,212
1977	266,236	66,511	332,747	1977	625,653	208,180	833,834
1978	478,023	77,859	555,883	1978	1,123,355	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

# **Reported Total Landings**

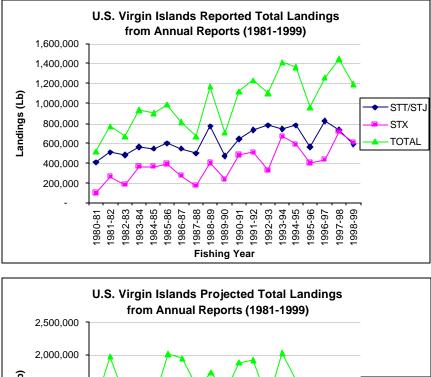
# Expanded Total Landings

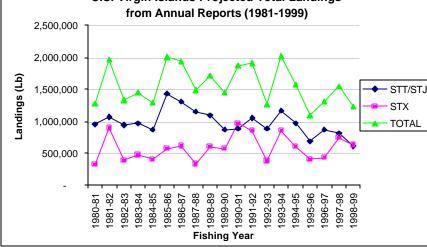
Table 22. Estimated reported and expanded Spiny Lobster landings for St. Thomas/St. John and St. Croix, U.S. Virgin Islands years 1974-2003.

Number of Landing Records **Reported Spiny Lobster Landings Expanded Spiny Lobster Landings Reporting Spiny Lobster** (1974 - 2003)(1974 - 2003)STX Year STT/STJ STX TOTAL Year STT/STJ STX TOTAL Year STT/STJ TOTAL 85 1974 2,743 0 6,446 1974 0 85 2,743 1974 6.446 0 5,213 6,796 1975 268 154 422 1975 12.009 1975 15.969 16.317 32.286 1976 201 353 6,742 3,623 10,364 11,338 27,181 152 1976 1976 15,843 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 568 655 3,078 87 1979 25,762 28,840 1979 60,541 9,634 70,176 1980 601 65 666 39.796 1.276 41.072 93.520 3.994 97.514 1980 1980 1981 637 728 38,059 2,116 40,175 90,693 91 1981 1981 83,777 6,916 647 795 2.692 1982 148 1982 38.626 41.317 1982 78,754 8.462 87,216 1983 702 248 950 40,825 4,480 45,305 1983 75,231 7,188 82,419 1983 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 3,373 1987 288 74 362 12.102 1.546 13.648 29.181 32.554 1987 1987 1988 26 240 1988 561 7,083 7.644 1988 12,883 214 1,313 11,570 178 6,480 6.498 1989 2 176 1989 18 1989 34 11,378 11,412 11,893 1990 1.452 126 1.578 1990 70.038 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 1,369 34,399 66,588 89,883 1992 706 663 1992 32,189 1992 36,695 53,188 1993 1,228 2.368 1993 64.689 33,333 98.021 1993 87.045 41,344 128,389 1,140 1994 1,073 882 1,955 47,894 26,319 74,212 1994 68,127 30,658 98,785 1994 1995 1,434 2,842 76.941 21,600 98,541 94.738 22,248 116,986 1.408 1995 1995 4,125 26,912 150,980 1996 1,646 5,771 1996 106,405 26,487 132,892 1996 124,068 8,371 1997 1.635 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 46,208 84,496 130,704 49.442 87.031 136,473 2000 2000 112,297 5,623 17,866 50,592 162,889 54,134 115,666 169,799 2001 12,243 2001 2001 2002 5,398 13,703 19,101 2002 115,370 176,873 2002 65,809 118,831 184,640 61,504 2003 2,726 6,486 9,212 36,754 50,617 87,371 2003 39,327 52,136 91,462 2003

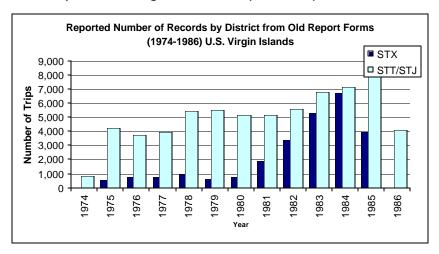


**Figure 1.** U.S. Virgin Islands. Number of licensed and reporting fishermen by year, percent reporting and estimates of Expansion Factor 1 from annual reports (DFW, 1981-2001). Data for years 1974-1979 and 1999-2003 was not available in annual reports; EF1 for 74-79 years was assumed constant and equal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

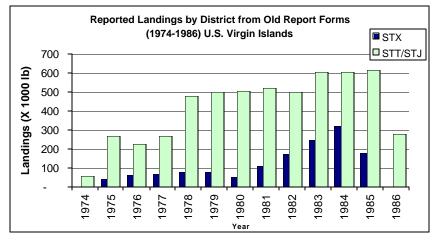


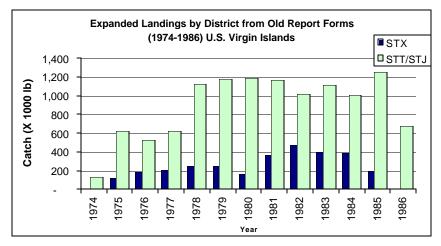


**Figure 2.** Reported and projected total landings by district and fishing year taken from annual performance reports (DFW,1981-2001). STT/STJ= St. Thomas/St. John, STX= St. Croix. Fishing year= July-June. Values for years19 99-00 to 2002-03 are not provided any longer in the corresponding reports.

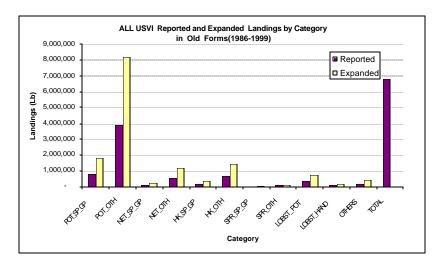


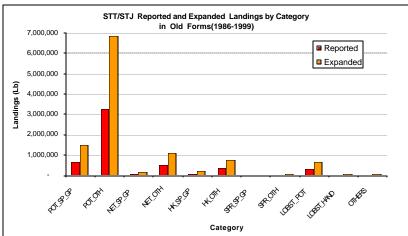
#### Reported Landings in OLD Form (1974-1986)





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





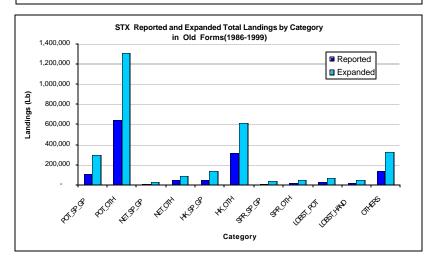
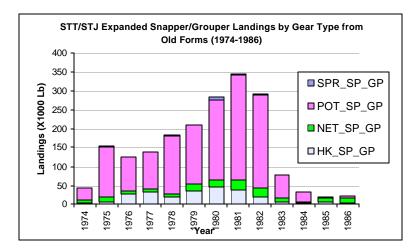


Figure 4. U.S. Virgin Islands, Old Form (1974-1986). Reported and Expanded Landings by district and category.



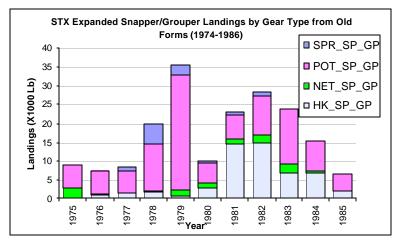
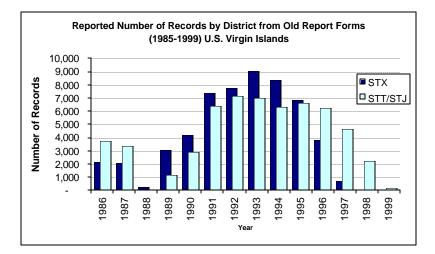
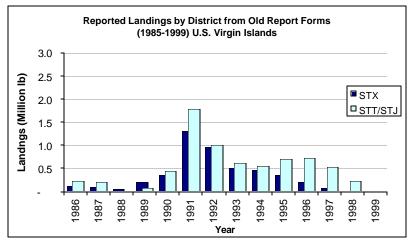


Figure 5. U.S. Virgin Islands, Old Form (1974-1986). Snapper/Grouper expanded landings by year and district.

## OLD Report Form (1985-1999)





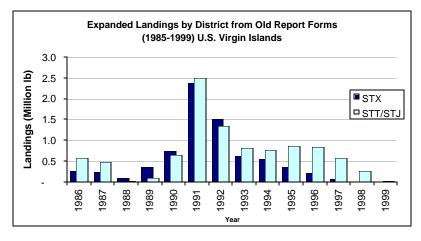
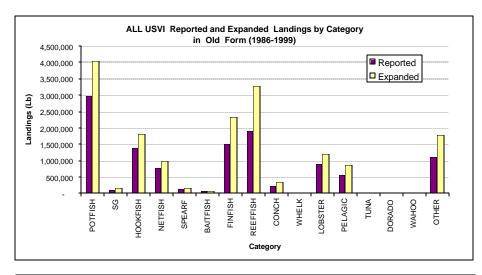
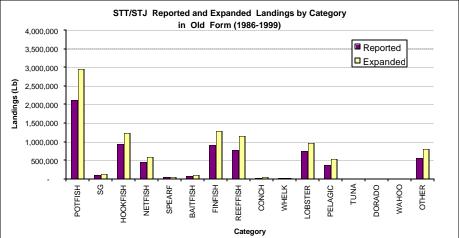


Figure 6. U.S.Virgin Islands. Old Form (1985-1999). Reported number of records, reported landings and expanded landings by year and district.





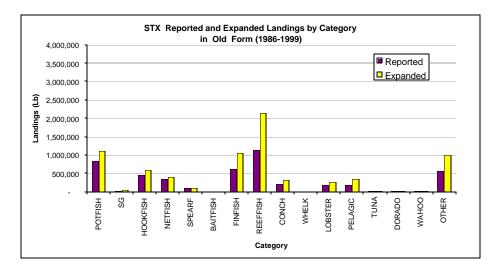
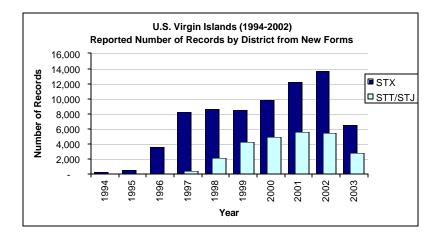
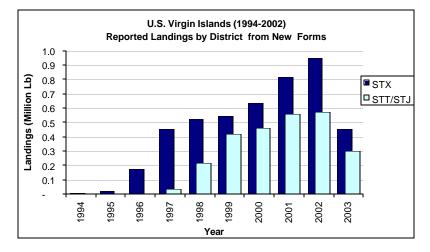
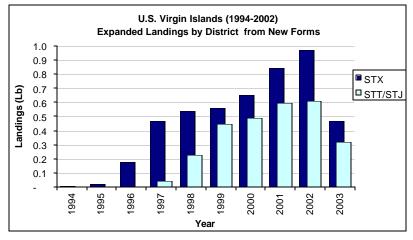


Figure 7. U.S. Virgin Islands, Old Form (1985-1999). Reported and Expanded Landings by district and category.

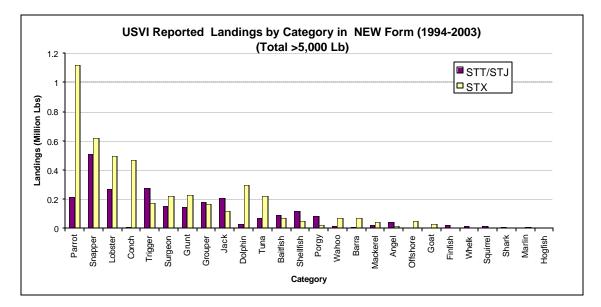
## Reported and Expanded Landings NEW Form (1994-2003)







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



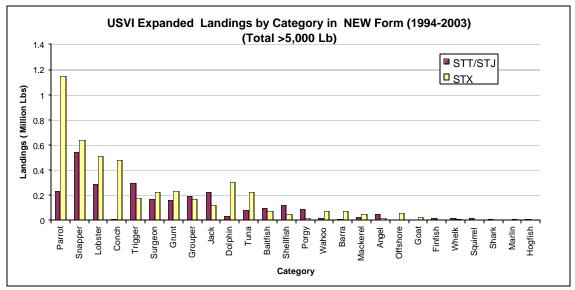
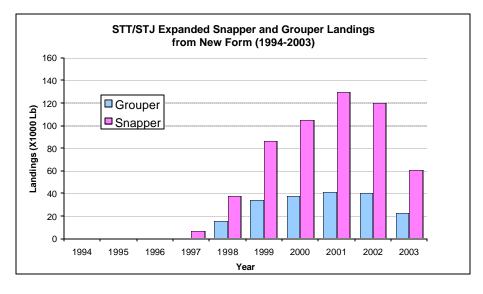
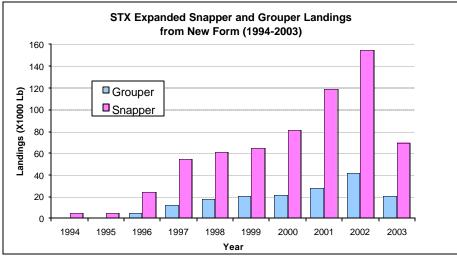
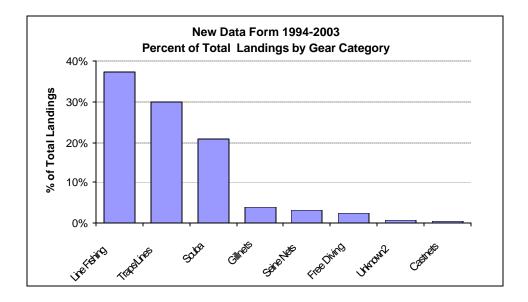


Figure 9. U.S. Virgin Islands, New Form (1994-2003). Reported and Expanded Landings by district and category.

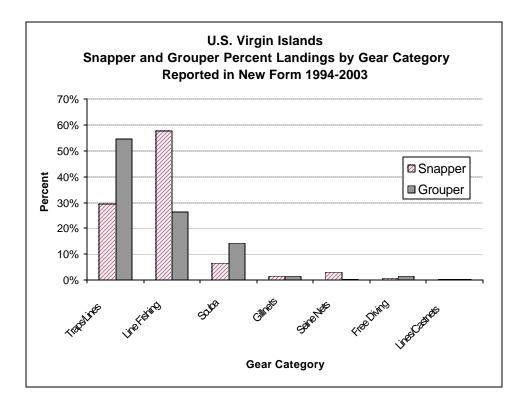




**Figure 10.** U.S. Virgin Islands, New Form (1994-2003). Expanded **Snapper and Grouper** landings by year and district..



**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.

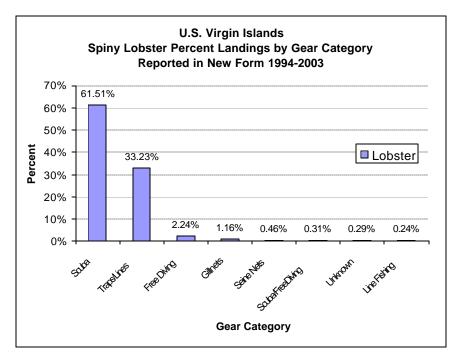


Figure 12 (b) (Cont). USVI Lobster landings by gear category from NEW Form (1994-2003).

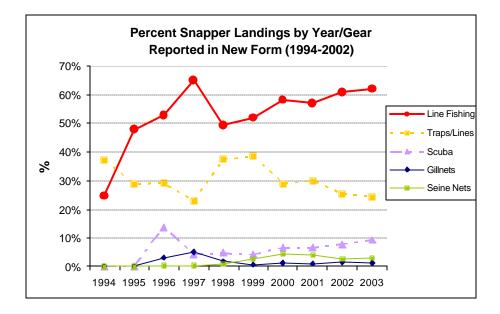


Figure 13. Proportion of snapper landings by gear type and year eported in New Form (1994-2003).

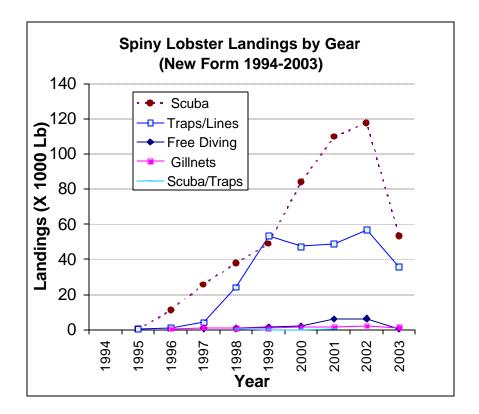
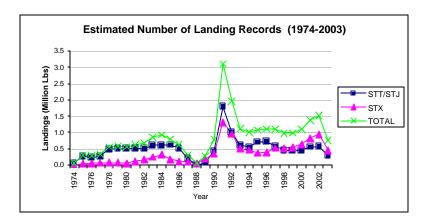
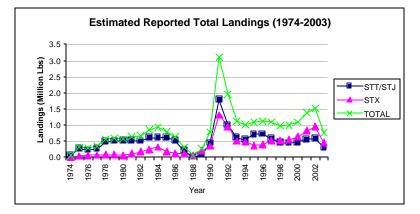
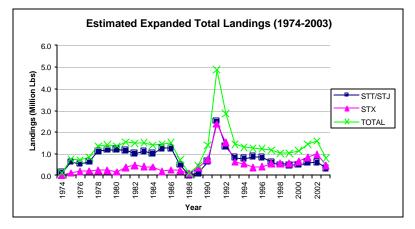


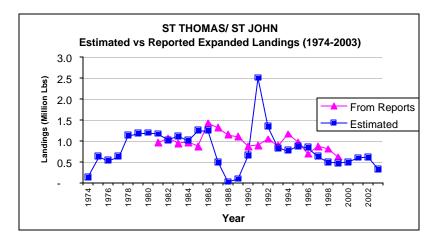
Figure 14. Spiny Lobster landings by gear from the New Form (1994-2003).







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



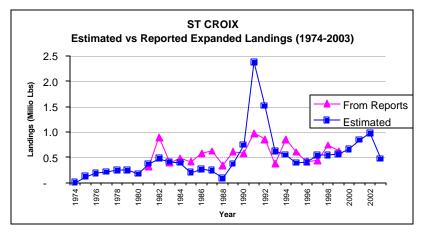
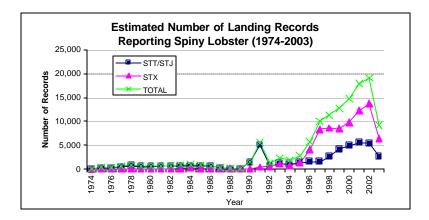
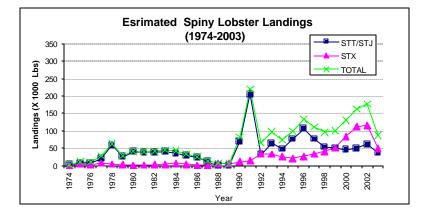


Figure 16. Comparison of estimated total landings and total landings taken from annual reports (DFW,1980-2001).





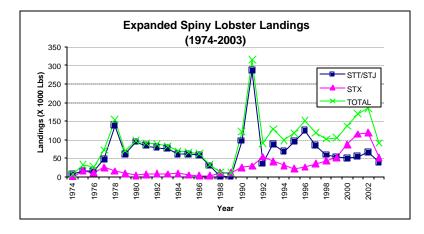


Figure 17. Estimated number of landing records reporting Spiny Lobster, estimated and expanded landings from 1974-2003.