COMPILATION AND SUMMARY OF COMMERCIAL CATCH REPORT FORMS USED IN THE U.S. VIRGIN ISLANDS, 1974/75 TO 2004/05

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BACKGROUND

The commercial catch report is a vital component of assessing the health of commercial fisheries in the U.S. Virgin Islands, as well as fisheries globally. The more information the commercial catch report contains, the more management decisions can be made accurately and to the benefit of the fishery.

The information recorded on catch report forms will differ according to region, targeted fisheries, and the involvement by resource managers. It is important to gather all the necessary information without making the form too complicated for fishers.

The objective of this report is to document the different catch report forms used by commercial fishers in the U.S. Virgin Islands over the years. This information can be used to determine which type of catch report form is most effective at collecting important catch data. In addition, it will facilitate the task of harmonizing existing non-uniform commercial catch data files.

METHODOLOGY

Sources of Information – There were two main information sources for the commercial catch report form used in the USVI for fishing years 1974/75 to 2004/05.

- 1. <u>Commercial Catch Report Data Files</u> As part of the organization of old catch reports, all available catch reports for the U.S. Virgin Islands from 1974/75 to 2004/05 are in the process of either being: (1) entered and proofed, (2) re-proofed, or (3) re-entered and re-proofed.
- Commercial Catch Report Forms In addition to data files, as
 part of the organization of old catch report files, blank catch report forms were
 identified and compiled from 1974/75 to 2004/05 for both the St. Thomas/St.
 John and St. Croix districts.

Comparison of Commercial Catch Report Forms – The above sources of data were examined and reviewed. The catch report forms were compared to commercial catch report hard copies for each year. For those years that the compilation contained more than one catch report form, the hard copies were used to determine which form was actually used for that fishing year. All of the information identified was compiled by fishing year and district (see Table 1).

RESULTS

All available catch report forms were collected and consolidated into Appendices A through T. There were basically two types of catch reports: short and long forms. The short catch report form organized fish into categories according to the type of gear used, including nets, pots and hooks. The long catch report form organized fish by species groups such as grouper, snapper, grunt, etc.

The short forms were mainly used in the 1970s, 1980s and into the mid 1990s. Long catch report forms were introduced in the mid 1990s.

The original commercial catch report form (see Appendix A) attempted to separate species groups by breaking down potfish, hookfish, etc. into two categories: "snapper/grouper" and "all others." This form also included fish prices. The fish price column was later removed in 1990/91.

The form that separated snapper and grouper from other catch (see Appendix A) was used for a number of years in the 1970s and 80s. For some of these years, it was used in combination with Form B (see Appendix B), which only separated fish by gear type. Six fishing years used both of these catch report forms (1978/79 and 1987/88 in St. Croix, 1981/82 in St. Thomas/St. John, and 1982/83, 1983/84 and 1984/85 for both islands).

The early 1990s also used a combination of the short forms. Form C (see Appendix C) incorporated species groups, while Form D (see Appendix D) did not. In 1992/93, St. Croix used both of these forms.

A number of revisions were made to the short catch report form in 1991/92 and 1992/93. Pot fishers were asked to record the number of pots hauled each fishing day. Monthly forms were produced with the month and year already printed on them and a baitfish column was added. The conch and whelk columns were also modified; "lbs of meat" was added to both.

Long forms were introduced in 1995/96 for St. Croix (see Appendix H) and 1997/98 for St. Thomas/St. John (see Appendix K). However, only a small percentage of commercial fishers were using the long forms during both of these fishing years. For St. Croix, only 11% of fishers were using the new long form in 1995/96. This number is based on the estimate of 180 total licensed fishers for that year (Holt and Uwate 2004). For St. Thomas/St. John, 18% of fishers were using the new long form in 1998/99. This number is based on the estimate of 153 total licensed fishers for that year (Holt and Uwate 2004).

Two additional fishing years (1996/97 for St. Croix and 1998/99 for St. Thomas/St. John) used both the long and short forms. On St. Croix in 1996/97, 72% of fishers were using the long commercial catch report form. This number is on the estimate of 212 total licensed fishers for that year (Holt and Uwate 2004). 65% of fishers in St. Thomas/St. John were using the long form in 1998/99. This number is based on the estimate of 186 total licensed fishers for that year (Holt and Uwate 2004).

DISCUSSION

Based on the above information, the Division of Fish and Wildlife has used several different commercial catch report forms during the past 30 years. Some of these forms included fish price information, but only divided the catch by the gear type used. However, other forms divided the

catch more specifically by fish type but did not include price information. The forms are basically the same, but modifications have been made as needed.

According to Barshinger (1992), snapper and grouper were separated because they were targeted more heavily than other species. However, the catch report form was recombined in 1992/93 when too many fishers were incorrectly dividing their catch into these categories.

The baitfish fishery was of particular concern in the early 1990s, so the baitfish column was added to help assess its health (Barshinger 1992).

Barshinger (1992) also explained that potfishers were asked to record the number of pots hauled in order to get a more accurate estimate of fishing efforts. It is unclear why other fishers weren't also asked to record their gear numbers (hooks, nets, etc).

The Annual Summary Report for 1993/94 asked for revisions to the catch report form in order to collect more detailed information (Meyers 1994). Meyers suggested information such as gear quantity, time spent fishing and catch divided by species groups would allow for better catch data, which in turn would allow for better management. The catch per unit of effort (CPUE) would be more accurate based on the additional information.

The long catch report form was first introduced in St. Croix during the 1994/95 fishing year, and in St. Thomas/St. John during the 1997/98 fishing year. However, the Division of Fish and Wildlife's data files do not contain any long forms for St. Croix in 1994/95. The long forms were used in a two year test period by a small group of fishers on a volunteer basis to obtain their opinions of the form (Tobias 2000). The test period was also used to determine the reasonableness of asking the fishers for the information, given their time constraints and ability to accurately identify species groups (B. Kojis, Personal communication).

The long form was not simultaneously introduced in both fishing districts in part because of continued concerns expressed by both Fishery Advisory Committee (FAC) members and commercial fishers (B. Kojis, personal communication). However, the long forms became the standard commercial catch report forms in 1997/98 in St. Croix and in 1999/00 in St. Thomas/St. John.

The current commercial catch report form is updated and revised as management deems necessary.

REFERENCES CITED

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Holt, M., and K.R. Uwate. 2004. Estimates of the number of licensed commercial fishers per year in the U.S. Virgin Islands, 1974/75 to 2003/2004. Bureau of Fisheries, Division of Fish and Wildlife, Department of Planning and Natural Resources, U.S. Virgin Islands. 20 pp.

Meyers, S. 1994. Annual Summary Report April 1993 - March 1994, Cooperative Fishery Statistics Program #SF-42 (NA27FT0301-01). Bureau of Fisheries, Division of Fish and Wildlife, Department of Planning and Natural Resources, United States Virgin Islands.

Tobias, W., R. Gomez, and B. Kojis. 2000. Three year summary report, April 1997 – March 1999, Cooperative Fishery Statistics Program NA77FT0093. Bureau of Fisheries, Division of Fish and Wildlife, Department of Planning and Natural Resources, United States Virgin Islands.

ACKNOWLEDGEMENTS

An earlier draft of this report was reviewed by Cheryl Ondeka, Dr. Roger Uwate and Dr. Barbara Kojis.

Table 1. Comparison of Commercial Catch Report Forms Used in St. Thomas/St. John and St. Croix, 1974/75 to 2004/05

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77/78	A	A
78/79	В	A, B
79/80	A	A
80/81	A	A
81/82	A, B	A
82/83	A, B	A, B
83/84	A, B	
84/85	A, B	A, B
85/86	В	A, B
86/87	В	<u>B</u>
87/88	В	В
88/89	В	<u>A, B</u>
89/90	В	<u>B</u>
90/91	C	<u>B</u>
91/92	C	<u>C</u>
92/93	D	C
93/94	E	C, D
94/95	F	E
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Appendix A. Commercial Catch Report Form A

Years in Use, STT/STJ: 74/75, 75/76, 76/77, 77/78, 79/80, 80/81, 81/82, 82/83, 83/84, 84/85
Years in Use, STX: 74/75, 75/76, 76/77, 77/78, 78/79, 79/80, 80/81, 81/82, 82/83, 83/84, 84/85, 87/88

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Appendix B. Commercial Catch Report Form B

Years in Use, STT/STJ: 78/79, 81/82, 82/83, 83/84, 84/85, 85/86, 86/87, 87/88, 88/89, 89/90 Years in Use, STX: 78/79, 82/83, 83/84, 84/85, 85/86, 86/87, 87/88, 88/89, 89/90

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Appendix C. Commerl .. Catch Report Form C

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Appendix D. Commercial Catch Report D

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Appendix E. Commerl ... Catch Report Form E

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Appendix F. Commercial Catch Report Form F

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Appendix G. Commercial Catch Report Form G

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Appendix H. Commercial Catch Report Form H

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Appendix I. Commercial Catch Report Form I

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Appendix J. Commercial Catch Report Form J

Years in Use, STX: 96/97

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Appendix K. Commercial Catch Report Form K

Years in Use, STT/STJ: 97/98 Years in Use, STX: 97/98

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Appendix L. Commercial Catch Report Form L

Years in Use, STT/STJ: 97/98

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Appendix M. Commercial Catch Report Form M

Years in Use, STT/STJ: 98/99 Years in Use, STX: 98/99

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Appendix N. Commercial Catch Report Form N

Years in Use, STT/STJ: 98/99

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Appendix O. Commercial Catch Report Form O

Years in Use, STT/STJ: 1999/2000 Years in Use, STX: 1999/2000

REVISED COMMERCIAL CATCH REPORT FORM FOR JULY 19

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Appendix Q. Commercial Catch Report Form Q

Years in Use, STT/STJ: 01/02 Years in Use, STX: 01/02

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Appendix R. Commercial Catch Report Form R

Years in Use, STT/STJ: 02/03 Years in Use, STX: 02/03

COMMERCIAL CATCH REPORT FORM FOR JULY 2002

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area Distance fished from land (miles)	bours	grouper ibs	snapper lbs	grunt Brunt		aurgeon lbs	parrot lbs	~					mackerel lbs	baitfish 16s			ibs whelk			artificial reef#
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	hed from land (miles)	Distance bours from land flahed (miles)	Distance from land (miles)	Distance bours grouper from land flabed lbs (miles)	Distance bours grouper snapper grunt (miles) lbs lbs lbs	Distance bours grouper from land fished lbs (miles)	Distance bours grouper stapper grunt jack surgeon (miles) lbs lbs lbs lbs lbs lbs	Distance bours grouper snapper gunt jack surgeon parrot (miles) Ibs lbs lbs lbs lbs lbs lbs lbs lbs lbs l	Distance bours grouper snapper gunt jack aurgeon parrox shelifish (miles) lbs lbs lbs lbs lbs lbs fbs fbs fbs	Distance bours grouper snapper grunt jack aurgeon parrot shelifish trigger (miles)	Distance bours grouper snapper grunt jack aurgeon parrot shellfish trigger porgy (miles) lbs lbs lbs lbs lbs lbs lbs lbs lbs lbs	Distance bours grouper snapper gunt jack aurgeon parce shellfish trigger porgy (miles) Ibs Ibs Ibs Ibs Ibs Ibs Ibs Ibs Ibs Ibs	Distance bours grouper grunt jack aurgeon parcet shellfish trigger proggy barra goat (miles) Ibs Ibs Ibs Ibs Ibs Ibs Ibs Ibs Ibs Ibs	Distance bours grouper snapper grant jack aurgeon parrot shellfish trigger porgy barra goat (miles) Distance Dours State Dours State Dours Dour	Distance bours grouper stapper grant jack aurgeon parret shellfish tragger borgy barra gout mackerel baiffish (miles) Distance	Distance boars grouper mapper grant jack surgeon parrot shelifish trigger porgy barra goat mackerel baitish lot (miles) Its ba ba ba ba ba ba ba ba ba ba ba ba ba	Distance boars grouper grant jack aurgeon parrox shelifish tragger porgy barra goal mackerel batifish lobser concide (miles).	Dieteron bount grouper grunt just surgeon parrot shellfith trigger porgy berra goat mackered bailfuld lober whelk (miles) In the last surgeon parrot shellfith trigger porgy berra goat mackered bailfuld lober whelk (miles) In the last surgeon parrot shelling berra goat mackered bailfuld lober whelk lob shelling shel	Distance boars grouper grant last augeon parrot shelifish tragger porsy burn goat mackerel lastfish lobser couch whelk (miles) Ibs Ibs Ibs Ibs Ibs Ibs Ibs Ibs Ibs Ibs	Distance Dours grouper Empire Just Largeon parrox Intelligat Largeon Dours

Appendix S. Commercial Catch Report Form S

Years in Use, STT/STJ: 03/04 Years in Use, STX: 03/04

COMMERCIAL CATCH REPORT FORM JULY 2003

31	30	29	28	27	26	25	24	23	22	21	20	120	250	17	16	125	14	13	12	=	10	9	8	7	6	ς	4	w	2	1-1	L & "	Name:
																															gear type	
																															gear no.	
																															area flahed	
																															distance from land (miles)	
																															hours fished/ soak time	
																															grouper snapper grunt jack surgeon parrot shellfish trigger lbs lbs lbs lbs lbs lbs lbs lbs	
																															snapper g	##
									L																		_				ip se	
Ц																															lb ₈	Boat
																															surgeon lbs	Boat Reg. No.: VI-
																															parrot lbs	0.: VI-
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П																															trigger lbs	
П																															porgy lbs	
П																															barna lbs	Total
П																															goat ibs	Pots
																															goat mackerel baitfish lobster conch lbs lbs lbs lbs meat	Total Pots Fished: Fish pots
																															baitfish lbs	Fish pol
																															lobster Ibs	39
																															conch meat lbs	Lobs
																															whelk in shell lbs	Lobster pots
																															whelk pelagic in shell D/T/W	
					-																										released FAD artificial D/A & # reef # F/L	No. of Helpers:
																													L		#AD	Helper
																															artificial reef #	s:

Initial & date when report received:

I attest that the information recorded on this form is true and accurate (sign & date)

Appendix T. Commercial Catch Report Form T

Years in Use, STT/STJ: 04/05 Years in Use, STX: 04/05

Initial & date when report received: 3 29 28 27 28 22222259817654 date gear gear area distance hours trup fished type no fished from fished soak land time (miles) (hours) 5 13 90 ဖ Ð.# COMMERCIAL CATCH REPORT FORM Boat Reg. No.: VI-I sitest that the information recorded on this form is true and accurate (sign & date) Total Pots Fished: Fish pots JULY 2004 Lobster pots No. of Helpers: \$ TO BE released D/A & F/L