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STATUS OF STRIPED BASS FISHERIES  
IN VIRGINIA  
AFTER IMPLEMENTATION OF THE 1984  
EMERGENCY REGULATIONS

by

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Synopsis

The Virginia Implementation Plan was put into effect by the Virginia Marine Resources Commission on 1 March 1984. It is in the form of EMERGENCY REGULATION XXIX PERTAINING TO THE TAKING OF STRIPED BASS (Appendix I). The regulation extends the closed "spawning area" in the Rappahannock River an additional 22 miles down river; extends the closed spawning season statewide 10 April-21 May to 1 April-31 May; closes the ocean fishery 1 March-31 May, and establishes a recreational creel limit of 5 fish per day. It also eliminates the 4 fish exception between 14 and 24". This emergency regulation was developed during January-February, 1984, before all 1983 catch data were in. The 55% reduction therefore, is based upon incomplete data, and an uncertainty of the magnitude of the recreational catch.

The reported commercial catch for 1983 when the Emergency Regulation was enacted was 41,995 pounds, excluding the Potomac River and tributaries. The corrected value now stands at 56,033 pounds (all landings, unless otherwise cited, exclude the Potomac River). The relative percentages for the various water bodies did not change however. Virginia's Emergency Regulations included an estimated 4.5% reduction already affected due to the James River closure in 1975, and a reduction of the recreational catch equal

to 5% of the 1983 total catch. The original Virginia Emergency Reduction would have provided a 54.8% mortality reduction. The revised commercial catch of 56,033 pounds, and 9800 pound recreational catch (15% of total catch) gives Virginia a total striped bass catch of 65,921 in 1983. Including the James River, the 1983 Virginia potential catch was 68,556 pounds.

These revised figures suggest that Virginia will only realize a 36% reduction in mortality in 1984, based upon a combined commercial-recreational 1983 catch of 65,921, for a 1984 catch reduction of 23,695 pounds.

#### The Fisheries

The Virginia Emergency Regulation is based on area closures, not gear type. These areas include the "Upper Tributaries", "Lower Tributaries", Bay, and Ocean. The principal fisheries begin in the Bay in late February and continue through April with drift and anchor gill nets. This is followed by increased catches, primarily during April, in the Lower and Upper Tributaries with staked gill nets. Pound nets take fish, but at a reduced rate, in the Upper Tributaries during March through May. The peak ocean fisheries occur during March, either as fish migrate northward from North Carolina, or as some leave the Bay early. Most of Virginia's commercial catch was taken from the Rappahannock River during 1983 (Figure 1).

The 1982 tributaries (Rappahannock) fishery, based upon the data of Loesch and Kriete (1983), was composed primarily of the 1978 and 1979 year-classes. Males outnumbered females. The 1978 Year-class comprised most of the spring ocean fishery with males and females in equal numbers. Preliminary analyses of the 1983 fishery suggests no real changes in size/age distribution of the catch (Loesch, personal communication). Reports are heard (including citations) of an abundance of 1982 year-class fish, and if it materializes, the 1984 fishery should show an increase comprised of two years olds (1982).

Recreational data are by hearsay. There has been little effort directed towards the normal "large fish" fall-winter (October-December) fishery since 1980-1981; and the spring fishery (May-June) for "shorts" in the rivers received little press in 1983. There have been however, unoffical reports of large recreational catches of 12" fish in the rivers during the summer of 1983. The 15% figure for recreational landings may be accurate under current stock conditions, but will probably increase to as much as 25% or more if the stock recovers. The 15% recreational catch is derived from the report of Williams, Smith, Spier, and Early (1983) for the Maryland recreational catch which they report as being 25%. No estimates are available for Virginia; however, it is estimated that the Maryland recreational striped bass catch is greater than Virginia's. Consequently, an estimate of 15% is used for the basis of this report.

### The Baseline Data Base

The BASELINE data generated for this report are from VMRC commercial catch statistics. Monthly catch by gear and water body were provided for March, April, and May 1980-1983; and total monthly catch for January - December, 1980-1983. Data are available for gear type, by water body and month back to 1978. Data from 1983 were used by VMRC as the baseline to develop their recommendations for the Emergency Regulation.

Table 1A of the BASELINE Data Set provides data for the four main fisheries, the Upper Tributaries, Lower Tributaries, Bay, and Ocean. These data are an average for the period 1980-1982. The catches were averaged as there was considerable inter-month variability. This period represents the Virginia BASELINE prior to implementation of the ISFMP in Virginia. Table 1B provides the data for 1983. These numbers represent the final corrected data from VMRC, including "late" reports for September-December, 1983.

Additional data back to 1978 are in tabular form in Appendix I.

### Development of Interim plan data base

Data for Table 2 were developed from the reductions expected from 1983 levels as a result of the 1984 Emergency Regulations which eliminate the ocean fishery during March-May, and upper tributaries fisheries during April and May. Months for which no regulations are proposed (January, February, June-December) are shown in Table 2 with "best estimate" catches. Generally

they will be up over 1983 due to the entrance of the 1982 year-class into the fisheries.

The Virginia 1984 Emergency Regulation as enacted expects to reduce the 1984 commercial catch by 17,800 pounds, the recreational catch by 3260 pounds, and the James River (Kepone closure) by 2241 pounds. A total reduction of 23,301 pounds, or 35% below 1983 levels.

### Distribution of Fractional Reduction across ages/sizes

The 1982 fishery prosecuted (Loesch and Kriete 1983) the 1979 and 1978 year classes (age 3-4) in the tributary fisheries (gill and pound nets). Preliminary analyses suggest the 1983 fishery was similar, with more 1980 fish moving in (Figure 2 and 3; from Loesch and Kriete 1983). The ocean gill net fishery primarily took the 1978 year class (age 4) (Figures 4 and 5; from Loesch and Kriete 1983). Generally, males and females were taken in equal numbers in the tributaries during spring, except for the 1979 year-class, which was composed predominantly of males. In the ocean the sex ratio was equal for the gill net fishery, but exclusively male (1978-1980) in the pound net fishery.

The proposed upper tributary closures will protect (in 1984) primarily spawning age fish (1980-1978 year classes), and the younger, newly recruited age 2 (1982) fish that represent the first "quasi-successful" recruitment since 1978. The ocean closure will protect the larger coastal migratory (>1980) fish.

### Estimated Reduction in Fishing Mortality

The enacted Emergency Regulation will reduce Virginia's mortality by 35% (Table 3).

### Potential Problems

The Emergency Regulations, currently in effect until 31 December 1984 were developed from incomplete commercial catch data. An additional 19% reduction, a reduction of 12,525 pounds, is required to meet the 55% reduction in mortality. This can be affected by an additional closure. A preliminary review of the catch by water body for September and October, 1983 shows that 93 and 78% respectively, come from the Upper Tributaries, almost all from the Rappahannock River (Table 4). Principal gear includes staked gill and pound nets. Most are taken by the staked gill nets.

The question of density-dependency/independency has not been answered. Consequently, a 55% reduction in mortality may increase the spawning potential by 6 fold, but not necessarily the recruitment by a similar degree. The Committee should include this consideration so that if spawning increases by 6 fold, but is not accompanied by a 6 fold increase in recruitment there will not be a major scientific-managerial confrontation.

Recommendations:

1. Closure of all fisheries during September and October (9500 pounds, 14%).
2. Closure of all fisheries for two weeks a month during September-November (9553 pounds, 14%).
3. Close only the Upper Tributaries (Rappahannock River) for two weeks each month September-December (8200 pounds, 12%). This is based upon the Upper Tributaries contributing an average of 75% of the catch each month during September-December.

Option No. 2 is recommended as it accomplishes the goal of a further 15% reduction, and spreads the load over all fisheries. All options however, will primarily impact the upper Rappahannock watermen, those already carrying the brunt of the reduction.

Virginia plans however, no further reductions at this time. The position of the VMRC is one of "wait and watch" until sister states enact the ISFMP, and the results of regulations already enacted show results.

Another approach is to consider the reduction to Virginia's commercial striped bass landings affected by the Potomac River Fisheries Commission Regulation III.13.C. This regulation is estimated by Maryland Department of Natural Resources' statistical analyses, currently underway, to reduce the Potomac River landings by 65%. Virginia's total striped bass landings were,

in 1983, 180,300 pounds. Of these, the Potomac River accounted for 97,218 pounds. A 65% reduction reduces Virginia's commercial landings by 63,191 pounds. An analysis of these figures is found in Table 5. These analyses suggest that the Potomac River closure has, in effect, reduced the total Virginia landings by 54%.

#### REFERENCES

- Loesch, J. G. and W. H. Kriete, Jr. 1982. Striped bass research, Virginia. Part II: Characterization of Virginia's striped bass commercial fisheries. Nat. Mar. Fish. Serv. Annu. Rep. AFC-12-2, Virginia Institute of Marine Science, Gloucester Point, Virginia. 29 p.
- Williams, J., T. Smith, H. Spier and S. Early. 1983. 1980 Maryland Saltwater Sportfishing Survey. Tidewater Admin. DNR Rept. No. TA-CRD-83-1, 124 pp.

Table 1A. Baseline Data Set. 1980-1982 (AVE) N = 3 [Pre Virginia ISFMP implimentation]

COMMERCIAL FISHERY

MONTH	UPPER TRIBS		LOWER TRIBS		BAY		OCEAN		TOTALS	
	LANDINGS	FRACTION	LANDINGS	FRACTION	LANDINGS	FRACTION	LANDINGS	FRACTION	LANDINGS	FRACTION
1	--	--	--	--	--	--	--	--	3948	.06
2	--	--	--	--	--	--	--	--	7174	.12
3	2220	.04	1589	.03	1257	.02	1421	.02	6487	.11
4	4306	.07	1785	.03	2066	.03	345	.01	8502	.14
5	853	.01	109	<.01	825	.01	35	<.01	1822	.03
6	--	--	--	--	--	--	--	--	954	.02
7	--	--	--	--	--	--	--	--	374	<.01
8	--	--	--	--	--	--	--	--	140	<.01
9	--	--	--	--	--	--	--	--	1621	.03
10	--	--	--	--	--	--	--	--	5639	.09
11	--	--	--	--	--	--	--	--	8354	.14
12	--	--	--	--	--	--	--	--	5883	.10
TOTALS	7379	.12	3483	.06	4148	.06	1801	.03	51852	0.85

Recreational Catch 9150 0.15

Total VA Landings (Excluding the Potomac) 61002 1.00

Table 1B. Baseline Data Set. 1983 (After ISFMP)

COMMERCIAL FISHERY											
MONTH	UPPER TRIBS		LOWER TRIBS		BAY		OCEAN		TOTALS		
	LANDINGS	FRACTION	LANDINGS	FRACTION	LANDINGS	FRACTION	LANDINGS	FRACTION	LANDINGS	FRACTION	
1	--	--	--	--	--	--	--	--	2252	.03	
2	--	--	--	--	--	--	--	--	1013	.02	
3	1355	.02	1026	.02	109	<.01	2560	.04	5050	.08	
4	10011	.15	2808	.04	1868	.03	620	.01	15307	.23	
5	4946	.08	716	.01	1273	.02	196	<.01	7131	.11	
6	--	--	--	--	--	--	--	--	2917	.04	
7	--	--	--	--	--	--	--	--	154	<.01	
8	--	--	--	--	--	--	--	--	319	<.01	
9	--	--	--	--	--	--	--	--	7292	.11	
10	--	--	--	--	--	--	--	--	2300	.03	
11	--	--	--	--	--	--	--	--	9514	.14	
12	--	--	--	--	--	--	--	--	2784	.04	
TOTALS	16312	.25	4550	.07	3250	.05	3376	.06	56033	>.85	
									Recreational Catch		
									Recreational Catch	9888	.15
									Total VA Landings	65921	1.000
									(Excluding the Potomac)		

NOTE:

Recreational catch is assumed to be 15% of total catch.

Table 2. Estimated Reduction

MONTH	COMMERCIAL FISHERY				PROJECTED MONTHLY CATCH	REDUCTION
	UPPER TRIB	LOWER TRIBS	BAY	OCEAN		
1	--	--	--	--	2,000	-0-
2	--	--	--	--	1,000	-0-
3	--	--	--	-2,500	2,500	- 2,500
4	-10,000	+200	+200	- 600	5,000	-10,200
5	- 4,900	+300	+300	- 200	2,600	- 5,100
6	--	--	--	- 200	3,000	-0-
7	--	--	--	--	200	-0-
8	--	--	--	--	400	-0-
9	--	--	--	--	7,500	-0-
10	--	--	--	--	3,000	-0-
11	--	--	--	--	10,000	-0-
12	--	--	--	--	3,000	-0-
	<u>-14,900</u>	<u>+500</u>	<u>+500</u>	<u>-3,300</u>	<u>40,200</u>	<u>-17,800</u>
					Recreational (5% of 83 Total Catch)	<u>- 3,280</u>
						<u>-21,060</u>
					James River (4% of 83 Total Catch)	<u>- 2,241</u>
						<u>-23,301</u>

Management Measures Enacted by Emergency Regulation XXIX

Month	Fishery	Description of Measure
1- 2	-	None
3	Ocean	Closure
4	Ocean Upper tributaries	Closure Closure (boundary extended 22 miles)
5	Ocean Upper tributaries	Closure Closure (boundary extended 22 miles)
6-12	-	None
1-12	Recreational	5 fish daily creel limit, and elimination of 4 fish 14-24" exception in Territorial Sea.

Table 3. Summary Table for the "Emergency Regulation XXIX" (Interim Management Plan) for the State of Virginia

COMMERCIAL FISHERY											
MONTH	UPPER TRIBS		LOWER TRIBS		BAY		OCEAN		TOTALS		
	BASELINE	DECREASE	BASELINE	DECREASE	BASELINE	DECREASE	BASELINE	DECREASE	BASELINE	DECREASE	
1	--	--	--	--	--	--	--	--	0.030	0	
2	--	--	--	--	--	--	--	--	0.020	0	
3	0.020	--	0.020	--	<0.010	--	0.040	0.040	0.080	0.040	
4	0.150	0.150	0.040	--	0.030	--	0.010	0.010	0.230	0.160	
5	0.080	0.080	0.010	--	0.020	--	<0.010	<0.010	0.110	0.080	
6	--	--	--	--	--	--	--	--	0.040	0	
7	--	--	--	--	--	--	--	--	<0.010	0	
8	--	--	--	--	--	--	--	--	<0.010	0	
9	--	--	--	--	--	--	--	--	0.110	0	
10	--	--	--	--	--	--	--	--	0.030	0	
11	--	--	--	--	--	--	--	--	0.140	0	
12	--	--	--	--	--	--	--	--	0.040	0	
TOTAL	0.250	0.250	0.070	--	0.050	--	0.050	0.050	>0.850	>0.270	
									Recreational estimate	0.150	0.050
									James River estimate	--	0.040
										1.000	0.360

\*1982 year class entering fishery

Total Virginia catch	65,921 = 1.000
Reduced commercial catch	-17,800 = 0.270
Reduced recreational catch	-3,260 = 0.050
Reduced James River	-2,635 = 0.040 (estimated)

Table 4. Summary table of incomplete landings for September-October, 1983.

COMMERCIAL FISHERY										
MONTH	UPPER TRIBS		LOWER TRIBS		BAY		OCEAN		TOTAL	
	BASELINE	PERCENTAGE	BASELINE	PERCENTAGE	BASELINE	PERCENTAGE	BASELINE	PERCENTAGE	BASELINE	PERCENTAGE
1	--	--	--	--	--	--	--	--	--	--
2	--	--	--	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	--	--	--
6	--	--	--	--	--	--	--	--	--	--
7	--	--	--	--	--	--	--	--	--	--
8	--	--	--	--	--	--	--	--	--	--
9	4673	0.930	104	0.020	104	0.020	123	0.030	5004	1.000
10	1375	0.780	76	0.040	320	0.180	0	0.000	1771	1.000
11	--	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	--	--	--	--	--
<b>TOTAL</b>	<b>6048</b>	<b>0.890</b>	<b>180</b>	<b>0.030</b>	<b>424</b>	<b>0.060</b>	<b>123</b>	<b>0.020</b>	<b>6775</b>	<b>1.000</b>

Table 5. Virginia striped bass landings, including the Potomac River, for 1983 with implimentation reductions.

<u>LANDINGS</u>		
Potomac River (Virginia) Commercial landings	97,218	
Non-Potomac Commercial landings	56,033	
Assumed Recreational catch @ 15%	<u>27,044</u>	
Total Virginia Landings, 1983	<u>180,300</u>	
<u>REDUCTIONS</u>		
(VMRC Emergency Regulation XXIX)		
Interim Commercial Reductions	-17,800	0.10
Recreational Reductions	-9,015	0.05
James River Reduction	-2,241	0.04
(@ 4% of 1983 Commercial Landings)	<u>-29,056</u>	
(PRFC Regulation III.13.C)		
Potomac River Reduction	-63,191	0.35
(@ 65% of total commercial)	<u>-92,247</u>	<u>0.540</u>

FIGURE 1

DISTRIBUTION OF STRIPED BASS LANDINGS FROM VIRGINIA WATERS IN 1983.

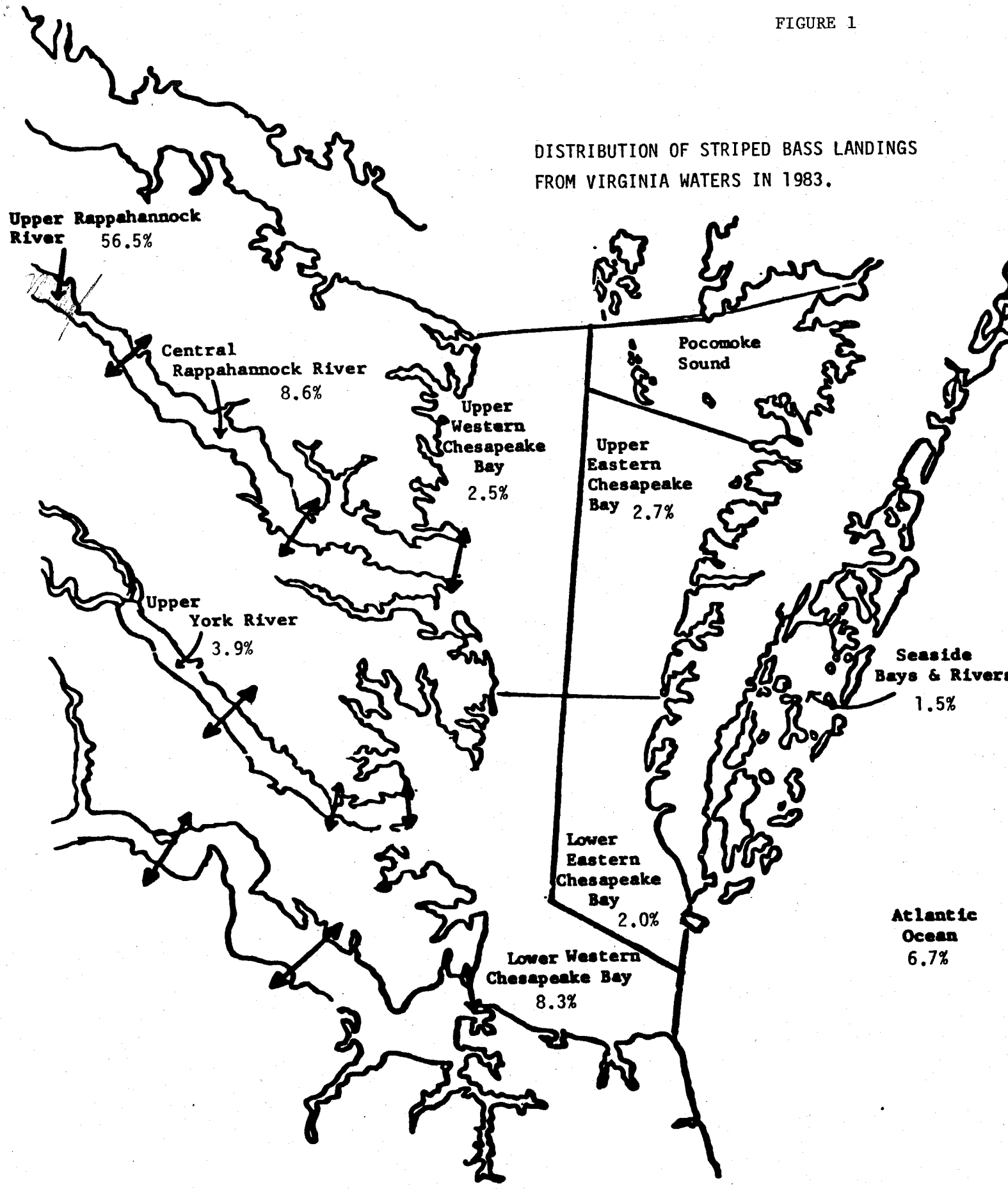
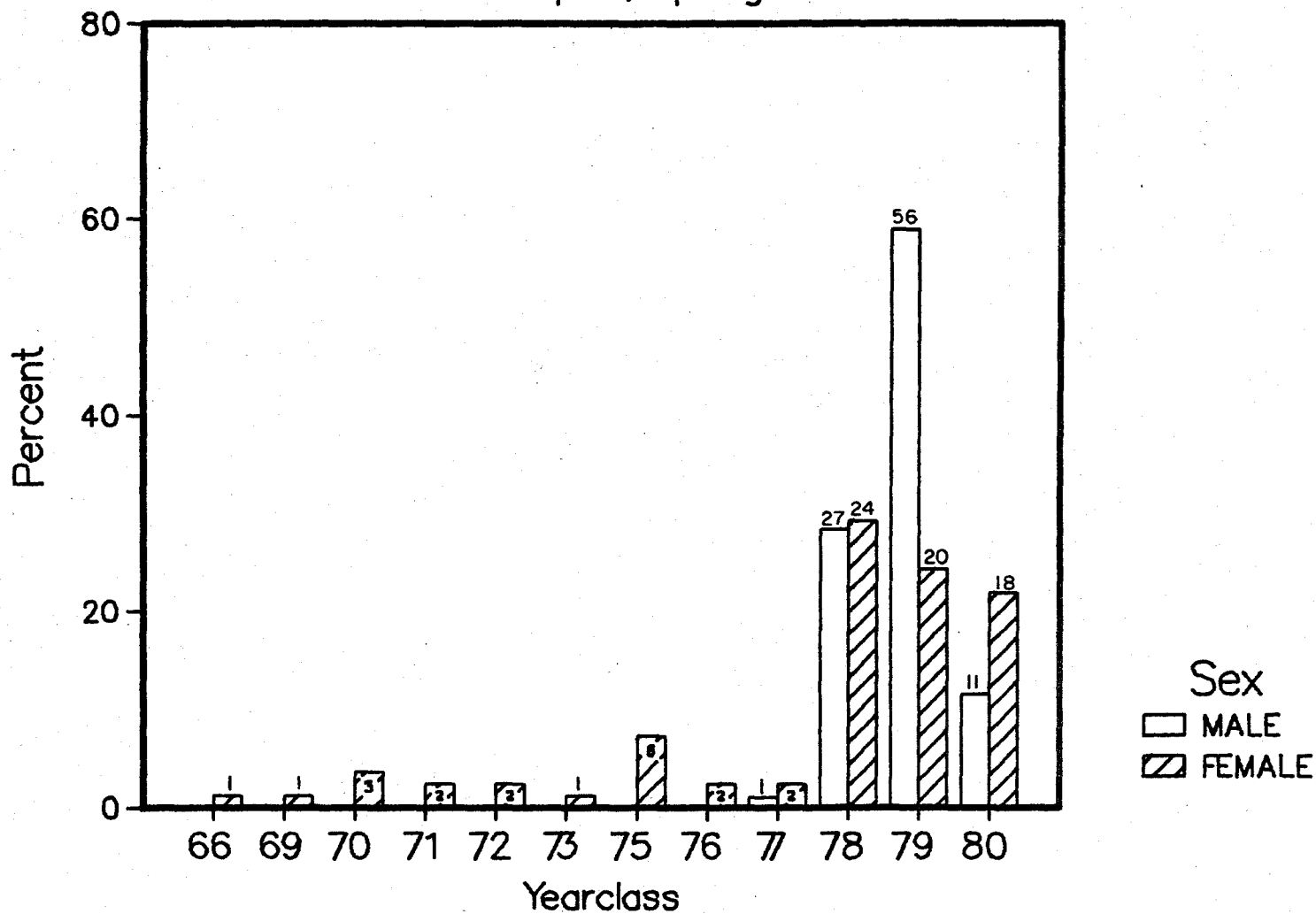
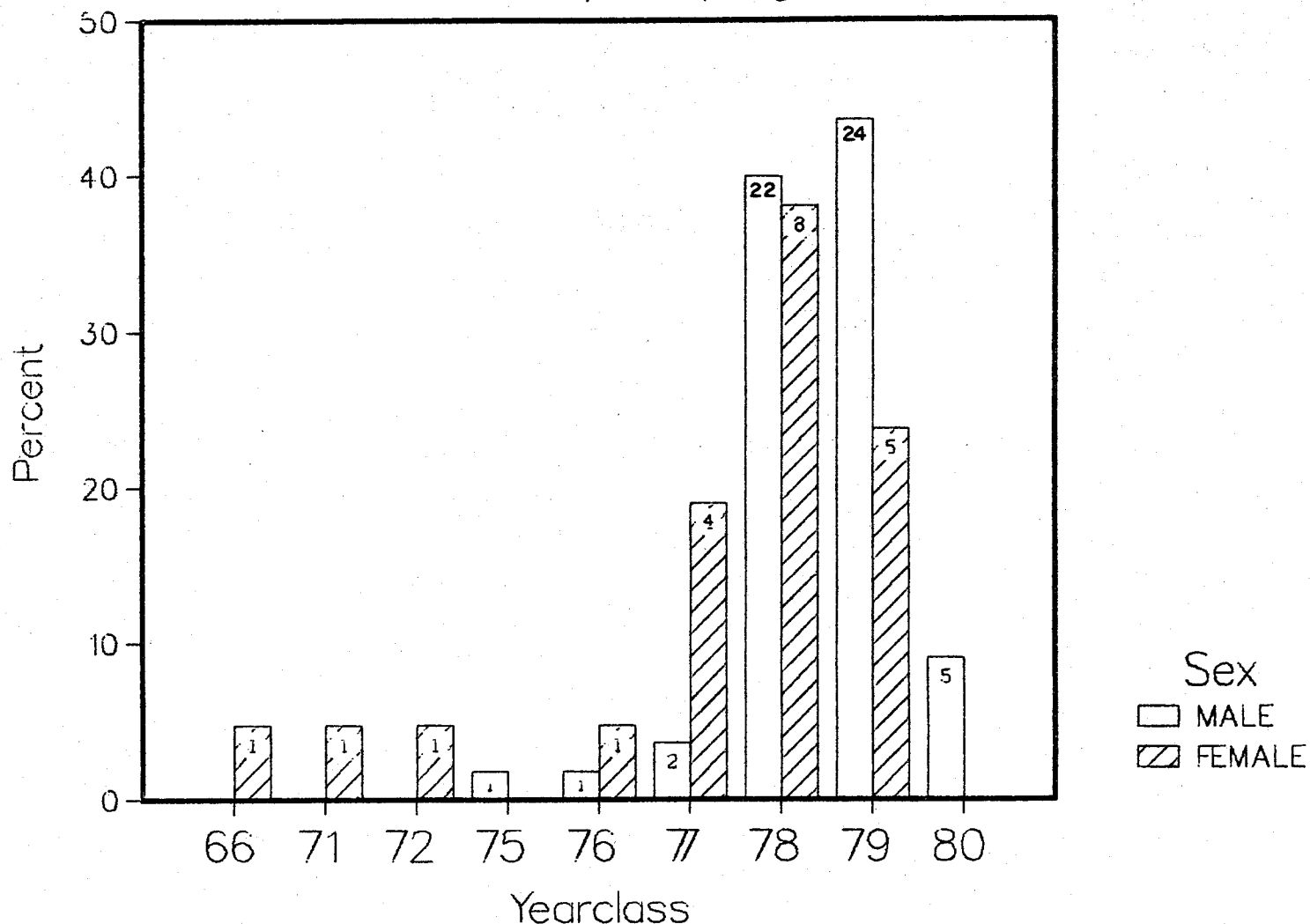


Figure 2.6. Distribution of Striped Bass  
Year Classes by Sex in the Rappahannock River  
Gill Net Samples, Spring 1982.



Percentages sum total for each sex.  
Numbers in bars are sample size.

Figure 2.4. Distribution of Striped Bass Year Classes by Sex in the Rappahannock River Pound Net Samples, Spring 1982.



Percentages sum total for each sex.  
Numbers in bars are sample size.

Figure 2.2. Distribution of Striped Bass Year Classes by Sex in the Eastern Shore Gill Net Samples, Spring 1982.

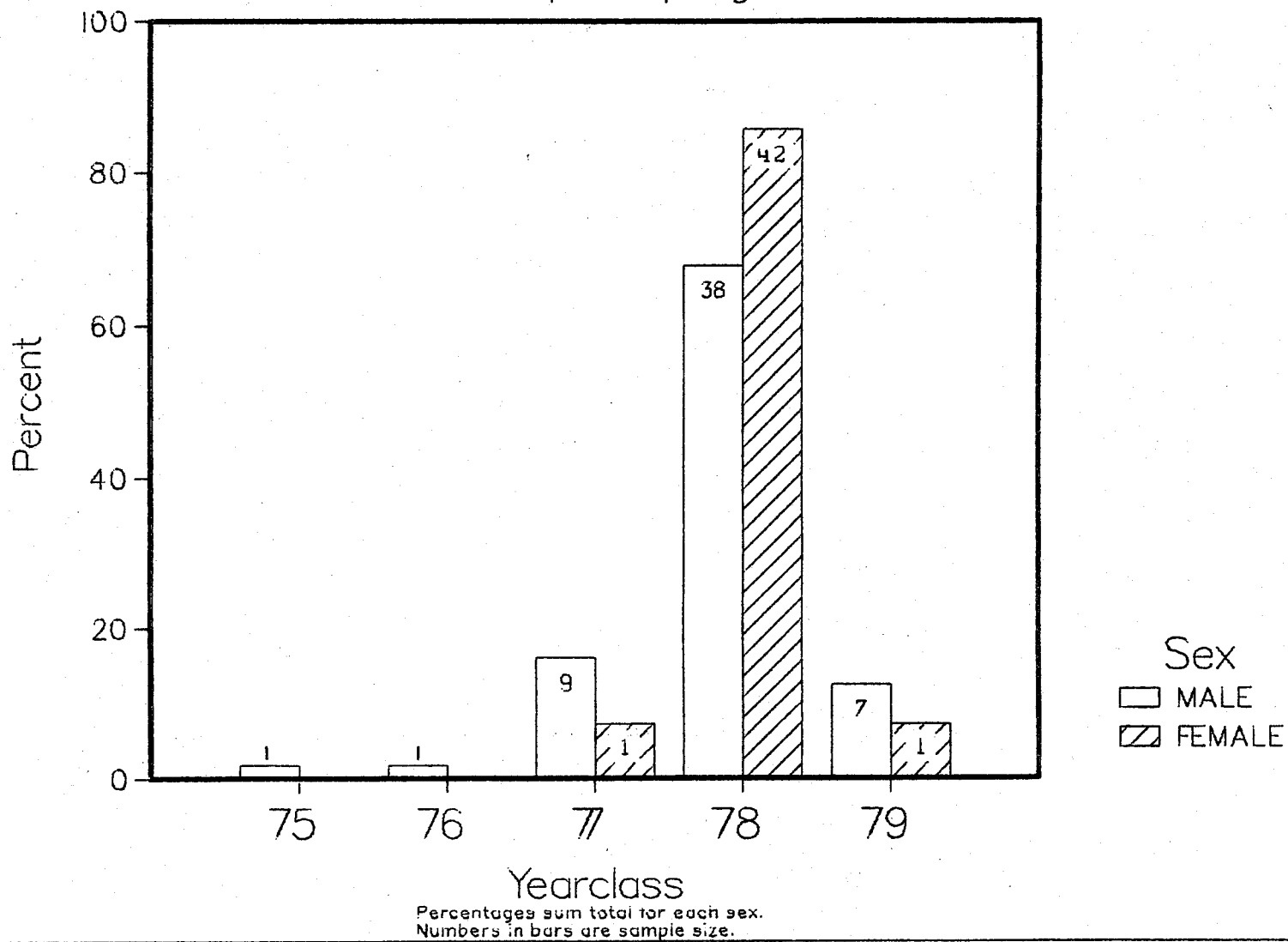
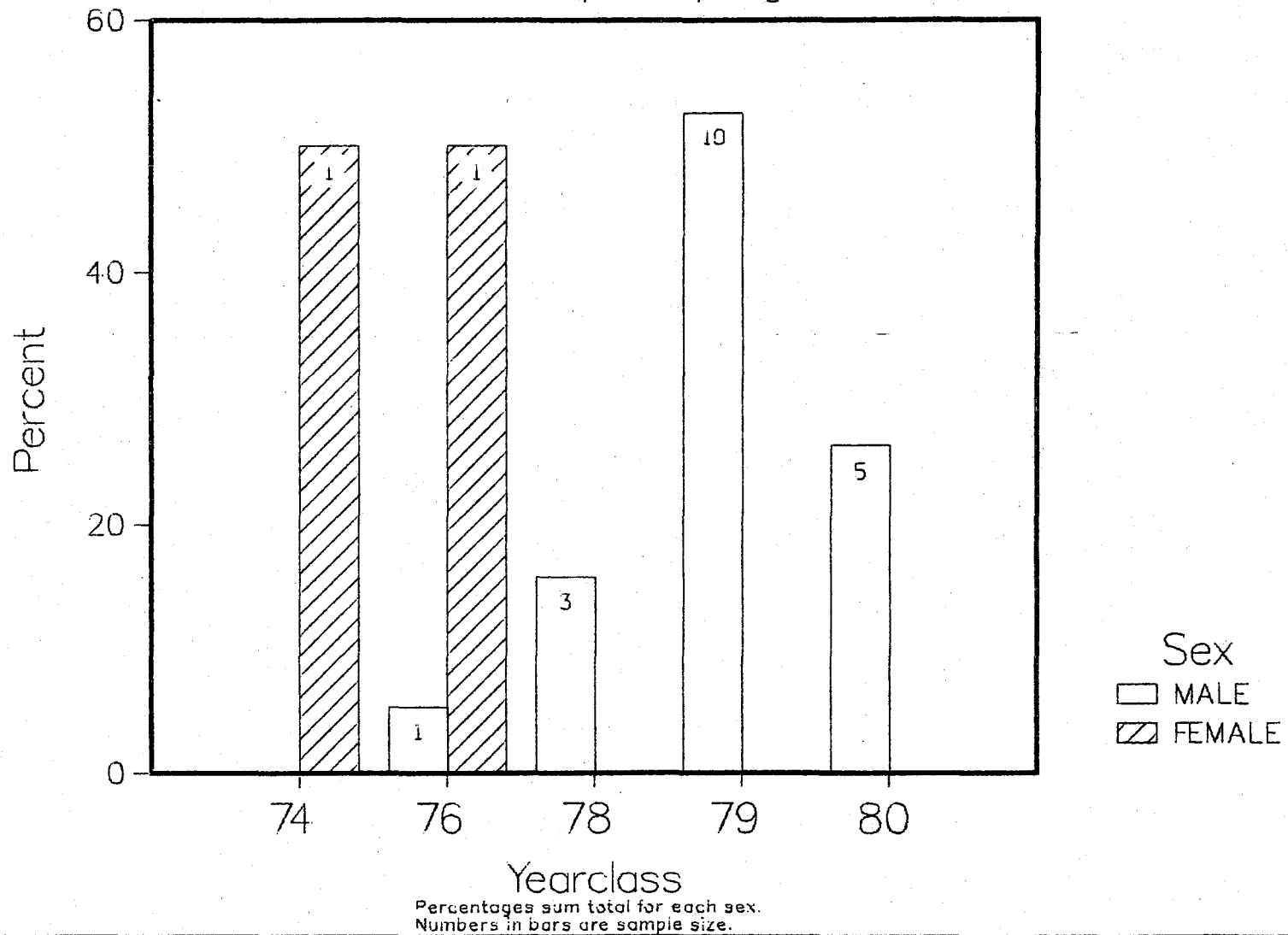


Figure 2.3. Distribution of Striped Bass  
Year Classes by Sex in the Eastern Shore  
Pound Net Samples, Spring 1982.



## APPENDIX

1. Emergency Regulation XXIX, Pertaining to the Taking of Striped Bass.
2. James River Striped Bass Landings 1973-1975.
3. Striped Bass Landings in Virginia 1978-1983 by month, gear, water body.

EMERGENCY REGULATION XXIX

PERTAINING TO THE TAKING OF STRIPED BASS

PREAMBLE

WHEREAS Virginia's commercial harvest of striped bass has declined from 2,888,000 pounds in 1973 to less than 395,000 pounds in 1981;

WHEREAS Virginia's 1983 commercial harvest of striped bass is estimated to be about 100,000 pounds;

WHEREAS Atlantic Coast striped bass stocks have continued to decline in spite of recent management efforts;

WHEREAS the trend of striped bass annual survival has been below a level necessary for replacement for the last ten years;

WHEREAS given the present status of the striped bass stocks, an estimated three-fold increase in total egg production is now necessary to sustain present stock size;

WHEREAS an estimated six-fold increase in egg production is necessary to facilitate the stock rebuilding process;

WHEREAS a most effective means of increasing egg production is to reduce total harvest and to protect striped bass while on their spawning grounds;

WHEREAS the Virginia Institute of Marine Science in a 1983 report entitled "Assessment of Larval Striped Bass Stocks in Maryland and Virginia Waters" indicates that the striped bass spawning reach of the Rappahannock River is significantly further downstream than described in the MRC Regulation XXIX promulgated on December 21, 1982;

WHEREAS the Striped Bass Management Board and the Interstate Fisheries Management Policy Board of the Atlantic States Marine Fisheries Commission formally agree that an emergency situation exists with regard to the future brood stocks of Chesapeake Bay striped bass;

FURTHER the Commission believes that even if the cause for the recent production failure of Chesapeake striped bass is determined not to be excessive fishing pressure, it is clear that restoration to historical levels of abundance cannot occur unless that pressure is controlled;

THEREFORE realizing that the 1984 spawning season will commence on or about April 1 and that significant action must be taken prior to the arrival of the striped bass to their spawning grounds, the Commission does declare that an emergency exists.

THEREFORE acting under the authority granted to the Marine Resources Commission pursuant to Sections 28.1-23, 28.1-50 and 28.1-69.1 of the Code of Virginia as amended, and with the approval of the Governor, the following emergency regulation is hereby promulgated pursuant to Section 9-6.14:6(iii):

1. AUTHORITY, PRIOR REGULATIONS, EFFECTIVE DATE: (a) This Regulation is promulgated pursuant to the authority contained in Section 28.1-23, 28.1-50 and 28.1-69.1 of the Code of Virginia, as amended.

(b) This Regulation amends the previous Regulation XXIX, Pertaining to the Taking of Striped Bass, which was promulgated by the Marine Resources Commission and made effective April 10, 1983.

(c) The effective date of this Regulation is March 1, 1984.

(d) This Regulation shall terminate on December 31, 1984 or when superseded by other Regulation. The Marine Resources Commission will receive, consider, and respond to petitions by any interested person at any time for the reconsideration or revision of this Regulation.

2. PURPOSE: The purpose of this Regulation is to provide for the long-term conservation of striped bass stocks of the Chesapeake Bay and its tributaries. This Regulation serves as a response to the intent of the management strategies suggested by the Interstate Fisheries Management Plan for the Striped Bass as adopted and amended by the Atlantic States Marine Fisheries Commission.

3. DEFINITIONS: (a) Spawning Rivers - the James, Pamunkey, Mattaponi, and Rappahannock Rivers including all their tributaries.

(b) Spawning Reaches - sections within the spawning rivers as follows:

(i) James River: From a line connecting Dancing Point and New Sunken Meadow Creek upstream to a line connecting City Point and Packs Point;

(ii) Pamunkey River: From the Route 33 bridge at West Point upstream to a line connecting Liberty Hall and the opposite shore;

(iii) Mattaponi River: From the Route 33 bridge at West Point to the Route 360 bridge at Aylett;

(iv) Rappahannock River: From the Route 360 bridge at Tappahannock upstream to the Route 3 bridge at Fredericksburg.

4. CLOSED AREAS, SEASON, AND GEAR LIMITATIONS: (a) The closed season for the spawning reaches of the James, Pamunkey, Mattaponi, and Rappahannock Rivers shall be from April 1 through May 31, inclusive.

(b) No anchored or staked gill net may be set or fished within the spawning reaches during the closed season. Drift (float) gill nets may be set or fished within the spawning reaches during the closed season, but the fisherman must remain with such net while that net is in the fishing position.

(c) Striped bass taken in the spawning reaches by any gear, including hook-and-line, shall be returned immediately to the water during the closed season.

(d) Possession of any striped bass by any person, firm, or corporation within the spawning reaches during the closed season shall be a violation of this Regulation except as provided in (e) below.

(e) Striped bass taken outside of the spawning reaches may be transported and landed within these areas provided prior notice is given to the Marine Resources Commission.

5. TERRITORIAL SEA: (a) A minimum size limit of twenty-four inches (24") in length is imposed on all striped bass taken in the Territorial Sea with the following exceptions:

(i) No more than five percent of a total daily catch of striped bass may consist of striped bass less than twenty-four inches (24") in length and at least fourteen inches (14") in length if the catch was made by net, and

(ii) It shall be unlawful for any person, firm or corporation to take or catch and retain possession of any striped bass from the Territorial Sea during the period March 1 through May 31, inclusive.

(b) Length is measured in a straight line from tip of nose to tip of tail.

6. CREEL LIMIT: Except as provided in 4.(c) and 5.(a)(ii), above, a possession limit of five (5) striped bass per person per day is imposed on all recreational hook-and-line fishermen taking striped bass from the tidal waters of Virginia.

7. ENFORCEMENT: Any uniformed officer of the Marine Resources Commission and any game warden of the Commission of Game and Inland Fisheries shall have the authority to enforce the provisions of this Regulation.

8. PENALTY: As set forth in Section 28.1-23, any person, firm, or corporation violating any provision of this Regulation shall be guilty of a Class I misdemeanor.

\* \* \* \* \*

This is to certify that the foregoing is a true and accurate copy of Emergency Regulations passed by the Marine Resources Commission, having first secured the approval of the Governor, pursuant to the authority vested in the Commission by Sections 28.1-23, 28.1-50 and 28.1-69.1 of the Code of Virginia as amended, and recorded in the Commission's minute book, at meeting held in Newport News, Virginia on February 28, 1984.

COMMONWEALTH OF VIRGINIA  
MARINE RESOURCES COMMISSION

By: William A. Pruitt  
Commissioner

Subscribed and sworn to before me on this 15<sup>th</sup> day of March, 1984.

My Commission expires  
November 17, 1987.

Virginia E. Green  
NOTARY PUBLIC

APPENDIX

James River  
Striped Bass Landings  
1973-1975

	<u>Total VA</u> <u>(Excl. P.R.)</u>	<u>James River</u>	<u>%</u>
1973	981,736	55,200	6
1974	871,827	24,300	3
1975	452,689	11,100	3
1976	--	-Closed-	-

STRIPED BASS LANDED IN U.A.

075, 175, 275, 375, 475

YR	MO	WA	GEAR	POUNDS	YR	MO	WA	GEAR	POUNDS	YR	MO	WA	GEAR	POUNDS
78	01	075	425	1960	78	04	072	425	8900	78	05	111	275	59
78	01	075	425	2232	78	04	075	275	247	78	05	111	275	10
78	01	075	425	8521	78	04	075	275	842	78	05	111	275	231
78	01	111	470	1118	78	04	075	275	758	78	05	111	470	3
78	01	377	470	40	78	04	075	275	94	78	05	177	275	255
78	01	635	210	421	78	04	075	425	2616	78	05	177	470	7
78	02	075	425	2179	78	04	075	425	9522	78	05	195	275	33
78	02	075	425	1424	78	04	075	425	558	78	05	195	470	1
78	02	075	425	31933	78	04	075	425	3554	78	05	277	275	1509
78	02	075	425	26215	78	04	075	425	4973	78	05	277	425	1102
78	02	111	425	3804	78	04	075	425	268	78	05	311	275	17
78	02	277	425	1164	78	04	075	425	10857	78	05	311	470	29
78	02	377	425	7657	78	04	075	425	3210	78	05	377	275	192
78	02	626	210	289	78	04	075	425	4395	78	05	377	275	193
78	03	003	275	146	78	04	075	425	32803	78	05	377	275	1289
78	03	003	425	60	78	04	075	470	345	78	05	377	275	1880
78	03	019	425	617	78	04	076	425	7943	78	05	377	275	6351
78	03	043	275	1146	78	04	099	275	11	78	05	377	425	369
78	03	059	425	1107	78	04	111	275	182	78	05	411	275	600
78	03	072	425	750	78	04	111	275	1391	78	05	411	470	800
78	03	075	020	18	78	04	177	275	3148	78	05	625	210	144
78	03	075	275	78	78	04	177	425	498	78	05	625	470	17
78	03	075	275	110	78	04	195	275	17	78	06	017	275	2
78	03	075	425	804	78	04	195	275	25	78	06	021	275	12
78	03	075	425	2845	78	04	195	470	398	78	06	043	275	55
78	03	075	425	3052	78	04	211	275	584	78	06	055	470	5
78	03	075	425	26706	78	04	277	275	43	78	06	069	275	7
78	03	075	425	780	78	04	277	275	46	78	06	075	275	89
78	03	075	425	14	78	04	277	425	354	78	06	075	275	2
78	03	075	425	181	78	04	311	275	34	78	06	075	275	299
78	03	075	425	8156	78	04	311	275	174	78	06	075	275	88
78	03	075	425	410	78	04	311	470	31	78	06	076	275	80
78	03	075	425	1414	78	04	377	275	30172	78	06	076	310	4
78	03	075	425	31240	78	04	395	425	853	78	06	099	275	24
78	03	076	425	5736	78	04	395	425	853	78	06	111	275	10
78	03	093	425	1171	78	04	395	425	48	78	06	111	275	15
78	03	111	275	2	78	04	395	470	78	78	06	111	275	7
78	03	177	275	2	78	04	411	275	45	78	06	177	275	4
78	03	195	275	395	78	04	411	425	8900	78	06	277	275	165
78	03	195	425	1427	78	04	625	470	184	78	06	277	425	2
78	03	211	425	7258	78	04	631	020	184	78	06	295	275	38
78	03	237	425	36	78	05	003	275	20	78	06	311	275	17
78	03	277	425	11865	78	05	003	470	2	78	06	311	275	90
78	03	277	425	432	78	05	017	275	21	78	06	377	275	395
78	03	311	275	12	78	05	021	275	2	78	06	411	275	100
78	03	311	470	15	78	05	055	275	52	78	06	613	210	30
78	03	377	275	8951	78	05	075	275	59	78	06	625	210	18
78	03	377	425	595	78	05	075	275	406	78	06	625	470	2
78	03	377	425	865	78	05	075	275	29	78	06	631	020	63
78	03	395	425	2018	78	05	075	275	202	78	07	075	275	28
78	03	395	425	2018	78	05	075	275	735	78	07	075	275	38
78	03	395	425	900	78	05	075	275	58	78	07	075	275	125
78	03	395	425	325	78	05	075	425	125	78	07	099	275	14
78	03	411	470	700	78	05	075	425	1303	78	07	111	470	37
78	03	625	470	80	78	05	075	425	131	78	07	177	275	10
78	04	029	275	10	78	05	075	425	1478	78	07	277	275	3
78	04	055	275	8	78	05	075	425	1352	78	07	377	275	19
78	04	055	275	34	78	05	075	470	5	78	07	377	470	12
					78	05	076	470	1444	78	07	411	275	9
					78	05	099	275	92	78	08	017	275	13

YR	MO	WA	GEAR	POUNDS
78	08	043	470	2
78	08	075	275	7
78	08	075	275	7
78	08	111	275	5
78	08	177	275	4
78	08	277	275	2
78	08	377	425	2
78	09	017	275	102
78	09	021	275	3
78	09	059	610	7
78	09	075	275	3
78	09	075	275	17
78	09	076	275	11
78	09	099	275	7
78	09	111	275	7
78	09	177	275	8
78	09	277	470	12
78	09	311	275	5
78	09	377	275	117
78	09	377	425	99
78	10	017	275	72
78	10	021	275	90
78	10	033	275	28
78	10	043	470	11
78	10	055	275	9
78	10	059	425	23
78	10	059	470	144
78	10	075	275	1902
78	10	075	275	149
78	10	075	275	455
78	10	075	275	150
78	10	075	425	305
78	10	075	425	1880
78	10	076	275	48
78	10	076	470	114
78	10	111	275	21
78	10	111	275	137
78	10	177	275	197
78	10	177	470	2
78	10	277	275	320
78	10	277	275	22
78	10	277	275	244
78	10	277	275	254
78	10	277	425	59
78	10	277	470	15
78	10	311	275	36
78	10	311	470	1
78	10	377	275	160
78	10	377	275	1700
78	10	377	470	26
78	11	017	275	16
78	11	043	470	333
78	11	055	275	139
78	11	059	470	119
78	11	070	425	100
78	11	075	275	36
78	11	075	275	444
78	11	075	275	505
78	11	075	275	44
78	11	075	275	94

YR	MO	WA	GEAR	POUNDS
78	11	075	275	1190
78	11	075	425	1465
78	11	075	425	2847
78	11	075	425	3916
78	11	075	425	2574
78	11	075	425	341
78	11	076	470	115
78	11	111	275	347
78	11	111	470	19
78	11	195	275	169
78	11	277	425	1259
78	11	277	470	107
78	11	277	470	18
78	11	311	275	133
78	11	311	275	9
78	11	311	470	300
78	11	377	275	140
78	11	377	425	387
78	11	377	425	42
78	11	377	470	144
78	11	377	470	147
78	11	621	210	3903
78	11	625	210	8
78	11	625	210	17
78	11	625	470	31
78	11	631	210	90
78	11	631	210	12
78	12	059	470	1103
78	12	075	275	35
78	12	075	275	23
78	12	075	425	655
78	12	075	425	7073
78	12	075	425	555
78	12	075	425	52
78	12	075	425	6639
78	12	075	425	4782
78	12	075	425	555
78	12	076	470	29
78	12	177	275	28
78	12	195	275	880
78	12	277	425	3108
78	12	277	470	37
78	12	277	470	46
78	12	377	425	1059
78	12	377	470	198
78	12	377	470	901
78	12	377	470	305
78	12	395	470	50
78	12	411	275	400
78	12	625	210	310
78	12	625	210	184
78	12	625	210	35
78	12	625	470	3782
78	12	625	470	1100
78	12	626	825	10
78	12	631	210	316
78	12	631	210	224
79	01	075	425	5678
79	01	075	425	7
79	01	075	425	428

YR	MO	WA	GEAR	POUNDS
79	01	075	425	7199
79	01	075	425	10281
79	01	075	425	226
79	01	277	425	4180
79	01	295	425	4143
79	01	377	425	2000
79	01	377	425	1450
79	01	395	425	30
79	01	395	425	1446
79	01	631	210	20
79	02	075	425	2331
79	02	075	425	1838
79	02	075	425	4676
79	02	111	275	30
79	02	277	425	200
79	02	295	425	312
79	02	377	425	432
79	02	395	425	291
79	02	626	210	16
79	02	631	210	20
79	03	003	275	30
79	03	049	470	43
79	03	055	470	411
79	03	059	020	314
79	03	059	425	3536
79	03	067	470	243
79	03	072	425	5239
79	03	075	275	63
79	03	075	275	350
79	03	075	275	44
79	03	075	275	6
79	03	075	425	116
79	03	075	425	4901
79	03	075	425	641
79	03	075	425	44
79	03	075	425	197
79	03	075	425	6028
79	03	075	425	384
79	03	075	425	9142
79	03	075	425	529
79	03	076	425	3600
79	03	096	425	200
79	03	111	275	5
79	03	111	275	2400
79	03	195	470	411
79	03	237	425	80
79	03	277	275	2641
79	03	277	425	506
79	03	277	425	1137
79	03	295	425	1723
79	03	311	020	1500
79	03	311	275	20
79	03	311	275	149
79	03	311	275	55
79	03	311	470	88
79	03	311	470	26
79	03	311	470	57
79	03	377	425	778
79	03	377	425	1142
79	03	377	425	852

4R	MO	WA	GEAR	Pounds
79	03	377	425	16651
79	03	395	425	1554
79	03	395	425	1113
79	03	411	275	10000
79	03	625	470	8297
79	03	626	210	188
79	04	003	275	43
79	04	003	470	15
79	04	059	020	1693
79	04	059	425	8157
79	04	072	425	17000
79	04	074	275	150
79	04	075	275	69
79	04	075	275	758
79	04	075	275	404
79	04	075	275	22
79	04	075	425	457
79	04	075	425	1985
79	04	075	425	36
79	04	075	425	1119
79	04	075	425	7023
79	04	075	425	10040
79	04	075	425	3243
79	04	075	425	353
79	04	075	425	395
79	04	075	425	101
79	04	075	470	1
79	04	111	275	267
79	04	111	275	25
79	04	111	275	844
79	04	177	275	153
79	04	195	275	2220
79	04	195	275	45
79	04	277	425	90
79	04	277	425	3826
79	04	277	470	184
79	04	295	425	198
79	04	311	020	663
79	04	311	275	20
79	04	311	275	20
79	04	311	275	762
79	04	311	275	40
79	04	311	470	35
79	04	311	470	67
79	04	377	275	(389)
79	04	377	275	(4360)
79	04	377	425	(18000)
79	04	377	425	(8168)
79	04	377	425	1526
79	04	395	425	159
79	04	411	275	9700
79	04	411	470	700
79	04	621	470	15
79	04	625	470	10357
79	04	632	210	20
79	05	029	275	19
79	05	043	425	65
79	05	055	020	30
79	05	072	610	35
79	05	074	425	19

4R	MO	WA	GEAR	Pounds
79	05	075	020	1
79	05	075	275	9
79	05	075	275	214
79	05	075	275	1755
79	05	075	275	24
79	05	075	275	13
79	05	075	425	385
79	05	075	425	251
79	05	075	425	274
79	05	075	425	84
79	05	076	425	620
79	05	111	275	123
79	05	111	275	181
79	05	177	275	6
79	05	211	470	300
79	05	277	275	41
79	05	311	275	15
79	05	311	275	26
79	05	311	470	162
79	05	377	425	50
79	05	377	425	991
79	05	377	425	703
79	05	411	275	35
79	05	411	470	1000
79	05	621	230	426
79	05	625	210	19
79	05	625	470	24
79	06	074	275	7
79	06	075	020	7
79	06	075	275	2
79	06	075	275	32
79	06	075	275	202
79	06	111	275	233
79	06	177	275	38
79	06	195	275	14
79	06	277	275	29
79	06	377	275	85
79	06	377	275	147
79	06	411	275	2300
79	07	055	275	44
79	07	059	020	8
79	07	075	275	77
79	07	075	275	96
79	07	075	275	142
79	07	111	275	82
79	07	311	275	29
79	07	377	275	84
79	08	075	275	13
79	08	075	275	51
79	08	075	275	30
79	08	075	275	2165
79	08	099	275	13
79	08	111	275	37
79	08	111	275	8
79	08	111	275	87
79	08	177	275	25
79	08	311	020	5
79	08	311	275	19
79	08	631	020	24
79	09	055	275	4

4R	MO	WA	GEAR	Pounds
79	09	055	275	4
79	09	055	470	19
79	09	075	275	23
79	09	075	275	16
79	09	075	275	230
79	09	075	425	10
79	09	075	425	36
79	09	075	425	200
79	09	111	275	1
79	09	277	275	69
79	09	277	275	163
79	09	377	275	316
79	09	377	425	1500
79	09	377	425	52
79	09	411	275	21000
79	10	043	275	478
79	10	050	425	104
79	10	055	020	8
79	10	055	275	5
79	10	059	275	1102
79	10	072	470	531
79	10	074	275	630
79	10	075	275	2
79	10	075	275	1284
79	10	075	275	313
79	10	075	275	1293
79	10	075	310	543
79	10	075	425	17
79	10	075	425	7062
79	10	075	425	10
79	10	075	425	19275
79	10	075	425	56
79	10	097	470	300
79	10	111	275	128
79	10	111	275	88
79	10	195	020	17
79	10	211	470	600
79	10	277	275	414
79	10	295	470	6
79	10	311	275	4
79	10	311	470	11
79	10	311	470	8
79	10	377	275	496
79	10	377	275	3172
79	10	377	275	1008
79	10	377	425	500
79	10	377	425	599
79	10	377	425	7080
79	10	411	275	300
79	11	055	275	50
79	11	059	275	354
79	11	075	275	1086
79	11	075	275	64
79	11	075	275	51
79	11	075	275	246
79	11	075	275	326
79	11	075	425	1428
79	11	075	425	1428
79	11	075	425	27925
79	11	075	425	14324

YR	MO	WA	GEAR	Pounds
79	11	075	425	8772
79	11	075	425	1447
79	11	078	275	476
79	11	111	275	674
79	11	111	275	6
79	11	111	275	178
79	11	195	275	575
79	11	195	470	206
79	11	277	275	7642
79	11	277	425	5035
79	11	295	425	955
79	11	377	275	645
79	11	377	275	4292
79	11	377	425	749
79	11	377	425	1516
79	11	625	210	48
79	11	625	210	62
79	12	075	275	5
79	12	075	425	2910
79	12	075	425	1411
79	12	075	425	212
79	12	075	425	5301
79	12	075	425	3807
79	12	075	425	11594
79	12	097	470	64
79	12	097	470	1000
79	12	111	275	234
79	12	111	275	44
79	12	277	425	1062
79	12	295	425	2556
79	12	377	275	2221
79	12	377	275	5477
79	12	377	425	682
79	12	395	425	1109
79	12	621	210	2296
79	12	625	210	110
79	12	625	210	8193
79	12	625	210	57
79	12	631	210	232
80	01	075	425	144
80	01	075	425	3003
80	01	075	425	403
80	01	075	425	58
80	01	075	425	4697
80	01	097	470	200
80	01	295	425	631
80	01	377	425	626
80	01	395	425	488
80	01	395	425	1108
80	01	625	210	708
80	01	625	210	12
80	01	626	210	60
80	01	626	210	75
80	01	631	210	3079
80	01	631	210	280
80	01	632	210	575
80	01	635	210	158
80	02	075	425	4445

YR	MO	WA	GEAR	Pounds
80	02	075	425	1019
80	02	075	425	105
80	02	075	425	21904
80	02	075	425	349
80	02	097	470	697
80	02	277	425	400
80	02	295	425	692
80	02	377	425	1460
80	02	377	425	274
80	02	395	425	1822
80	02	395	425	394
80	02	625	210	504
80	02	626	210	23
80	02	632	210	2972
80	03	055	470	201
80	03	074	275	696
80	03	075	275	70
80	03	075	425	29726
80	03	075	425	330
80	03	075	425	9
80	03	075	425	242
80	03	075	425	15366
80	03	075	425	24722
80	03	075	425	1351
80	03	076	425	1732
80	03	097	470	4156
80	03	111	275	32
80	03	111	275	8
80	03	195	470	163
80	03	211	470	8400
80	03	277	275	1895
80	03	277	425	2800
80	03	311	275	128
80	03	311	275	55
80	03	311	470	120
80	03	311	470	312
80	03	377	275	3543
80	03	377	275	922
80	03	377	425	1023
80	03	377	425	492
80	03	395	425	351
80	03	632	210	64
80	03	635	230	3593
80	03	636	230	31
80	04	072	470	3666
80	04	073	470	795
80	04	075	275	94
80	04	075	275	675
80	04	075	275	40
80	04	075	275	60
80	04	075	425	5
80	04	075	425	5547
80	04	075	425	183
80	04	075	425	4782
80	04	075	425	25
80	04	075	425	5583
80	04	075	425	8262
80	04	075	425	284
80	04	075	425	8398
80	04	075	470	47

YR	MO	WA	GEAR	Pounds
80	04	076	425	500
80	04	076	425	7301
80	04	097	470	428
80	04	111	275	95
80	04	111	275	388
80	04	177	275	21
80	04	195	020	131
80	04	195	275	114
80	04	211	470	3350
80	04	277	275	2349
80	04	277	425	68
80	04	277	425	8562
80	04	295	425	122
80	04	311	275	155
80	04	311	275	9
80	04	311	470	28
80	04	311	470	127
80	04	377	275	1504
80	04	377	275	630
80	04	377	425	4000
80	04	377	425	6274
80	04	377	425	2646
80	04	395	425	343
80	04	411	470	1690
80	04	625	210	208
80	04	626	210	212
80	04	631	210	234
80	04	631	210	61
80	04	631	210	56
80	04	631	470	6
80	04	632	210	(17
80	05	055	470	3
80	05	072	470	160
80	05	074	275	73
80	05	075	275	16
80	05	075	275	147
80	05	075	275	60
80	05	075	275	584
80	05	075	275	1287
80	05	075	425	193
80	05	075	425	76
80	05	075	425	217
80	05	075	425	5
80	05	075	425	214
80	05	075	425	419
80	05	075	425	217
80	05	075	425	121
80	05	111	275	20
80	05	111	275	359
80	05	211	470	150
80	05	277	275	595
80	05	311	275	1
80	05	311	275	9
80	05	311	275	51
80	05	311	470	107
80	05	377	275	695
80	05	377	275	409
80	05	377	275	1771
80	05	377	275	2164
80	05	411	470	1500

YR	MO	WA	GEAR	POUNDS
80	05	411	610	24
80	05	625	210	134
80	05	625	210	28
80	05	631	210	24
80	05	631	610	3087
80	06	055	275	22
80	06	075	275	106
80	06	075	275	12
80	06	075	425	30
80	06	075	425	630
80	06	111	275	2
80	06	311	275	12
80	06	311	275	20
80	06	311	470	15
80	07	075	275	128
80	07	075	275	18
80	07	075	425	818
80	07	075	425	1351
80	07	111	275	43
80	07	277	275	8
80	07	311	610	45
80	07	377	275	1
80	07	377	275	233
80	07	377	275	54
80	07	377	275	16
80	08	075	275	2
80	08	075	275	26
80	08	075	425	2758
80	08	111	275	48
80	08	277	275	8
80	08	311	610	27
80	08	377	275	8
80	08	377	275	58
80	08	377	275	26
80	09	074	275	241
80	09	075	275	17
80	09	075	275	8
80	09	075	275	601
80	09	075	425	1591
80	09	075	425	114
80	09	075	425	20
80	09	075	425	1623
80	09	075	425	733
80	09	111	275	3
80	09	377	275	108
80	09	377	275	2495
80	09	377	275	59
80	10	074	275	327
80	10	075	275	870
80	10	075	275	532
80	10	075	275	2321
80	10	075	310	507
80	10	075	425	5890
80	10	075	425	10288
80	10	075	425	3
80	10	075	425	5770
80	10	075	425	57800
80	10	075	425	183
80	10	111	275	19
80	10	111	275	66

YR	MO	WA	GEAR	POUNDS
80	10	195	275	19
80	10	277	275	223
80	10	311	275	18
80	10	311	275	16
80	10	311	310	13
80	10	311	470	100
80	10	377	275	943
80	10	377	275	2617
80	10	377	275	3863
80	10	377	275	3740
80	10	631	210	5
80	11	074	275	866
80	11	075	275	596
80	11	075	275	1131
80	11	075	275	3951
80	11	075	310	298
80	11	075	425	3547
80	11	075	425	9092
80	11	075	425	1220
80	11	075	425	1680
80	11	075	425	18636
80	11	075	425	1872
80	11	111	275	20
80	11	111	275	536
80	11	277	275	31
80	11	311	470	554
80	11	377	275	1649
80	11	377	275	5696
80	11	377	275	5849
80	11	621	210	54
80	11	625	210	227
80	11	625	210	2887
80	11	625	210	47
80	11	625	470	32
80	11	626	210	47
80	11	631	210	14
80	11	631	210	12
80	12	074	275	629
80	12	075	275	22
80	12	075	275	252
80	12	075	275	41
80	12	075	425	2693
80	12	075	425	19785
80	12	075	425	2727
80	12	075	425	1036
80	12	075	425	4387
80	12	075	425	34622
80	12	075	425	929
80	12	075	425	557
80	12	311	470	1048
80	12	377	425	9
80	12	377	425	3986
80	12	377	425	2908
80	12	411	275	500
80	12	625	210	4484
80	12	625	210	62
80	12	625	470	25
80	12	626	210	40
80	12	626	210	50
80	12	631	210	54

YR	MO	WA	GEAR	POUNDS
81	01	075	425	9862
81	01	075	425	35787
81	01	175	425	5226
81	01	275	425	12540
81	01	275	425	11408
81	01	377	425	1875
81	01	377	425	1805
81	01	395	425	7
81	01	631	210	50
81	01	632	210	7
81	02	175	425	28
81	02	175	425	330
81	02	275	425	6378
81	02	275	425	399
81	02	277	470	61
81	02	295	470	123
81	02	311	470	139
81	02	375	425	7995
81	02	375	425	18585
81	02	377	470	1408
81	02	377	470	109
81	02	377	470	263
81	02	377	470	1453
81	02	395	425	373
81	02	632	210	15
81	02	635	210	750
81	02	636	210	170
81	03	075	275	12
81	03	075	425	4
81	03	097	470	846
81	03	137	470	14
81	03	137	610	26
81	03	175	425	1096
81	03	195	470	290
81	03	211	470	1300
81	03	275	425	2684
81	03	275	425	1258
81	03	275	425	68
81	03	295	470	4681
81	03	311	275	45
81	03	375	275	7
81	03	375	425	3593
81	03	375	425	9361
81	03	377	275	68
81	03	377	275	212
81	03	377	275	2621
81	03	377	275	826
81	03	395	425	435
81	03	475	425	11493
81	03	631	230	927
81	03	631	470	234
81	03	632	210	35
81	03	635	210	355
81	03	635	210	28
81	04	055	470	2
81	04	111	275	92
81	04	111	275	423
81	04	175	275	668
81	04	175	425	746
81	04	175	425	1046

YR	MO	WA	GEAR	Pounds
81	04	177	275	519
81	04	195	275	213
81	04	195	470	68
81	04	211	470	5000
81	04	275	275	9
81	04	275	275	70
81	04	275	425	2294
81	04	275	425	332
81	04	275	425	2366
81	04	277	425	2428
81	04	311	275	304
81	04	375	275	19
81	04	375	425	7438
81	04	375	425	2453
81	04	375	425	6675
81	04	375	425	8533
81	04	377	275	5129
81	04	377	425	8377
81	04	377	425	700
81	04	395	425	161
81	04	475	425	4
81	04	475	425	913
81	04	625	470	1210
81	04	626	210	38
81	04	631	470	236
81	05	055	275	14
81	05	074	275	88
81	05	111	275	4
81	05	111	275	181
81	05	111	470	182
81	05	175	275	356
81	05	175	275	4
81	05	175	425	136
81	05	275	275	396
81	05	277	275	379
81	05	311	275	29
81	05	375	425	451
81	05	375	425	1142
81	05	377	275	1193
81	05	411	275	1800
81	05	615	210	50
81	05	625	210	55
81	05	625	470	2
81	06	055	275	37
81	06	175	275	40
81	06	175	275	17
81	06	195	275	2
81	06	311	275	25
81	06	311	275	20
81	06	311	610	17
81	06	377	275	200
81	06	377	275	2020
81	06	411	275	25
81	07	055	275	37
81	07	111	275	102
81	07	175	275	13
81	07	175	275	1
81	07	275	275	3
81	07	311	275	250
81	07	311	610	7

YR	MO	WA	GEAR	Pounds
81	07	311	610	14
81	07	377	275	209
81	08	175	275	18
81	08	175	275	1
81	08	275	275	2
81	08	295	275	34
81	08	377	275	73
81	09	175	275	15
81	09	175	275	5
81	09	275	275	5
81	09	295	610	85
81	09	375	425	599
81	09	377	275	73
81	09	377	275	1425
81	10	111	275	5
81	10	111	275	213
81	10	175	275	24
81	10	175	275	172
81	10	175	275	123
81	10	175	425	9
81	10	195	275	17
81	10	275	275	555
81	10	275	425	165
81	10	311	275	24
81	10	375	275	6
81	10	375	425	311
81	10	375	425	4802
81	10	375	425	5326
81	10	375	425	14802
81	10	377	275	342
81	10	377	275	1394
81	10	377	275	792
81	11	111	275	12
81	11	175	275	623
81	11	175	425	296
81	11	175	425	419
81	11	175	425	3300
81	11	175	425	67
81	11	275	275	3043
81	11	275	425	1478
81	11	275	425	333
81	11	275	425	63
81	11	277	275	182
81	11	311	275	20
81	11	311	275	11
81	11	375	275	56
81	11	375	425	7783
81	11	375	425	7160
81	11	375	425	23442
81	11	377	275	326
81	11	377	275	2542
81	11	622	210	52
81	11	622	210	44
81	11	625	210	279
81	11	625	210	126
81	11	635	210	75
81	12	175	275	31
81	12	175	425	30
81	12	175	425	50
81	12	175	425	2209

YR	MO	WA	GEAR	Pounds
81	12	275	425	106
81	12	275	425	9977
81	12	275	425	652
81	12	275	425	3212
81	12	375	425	3748
81	12	375	425	498
81	12	375	425	37
81	12	375	425	15662
81	12	377	275	587
81	12	377	425	239
81	12	377	425	184
81	12	475	425	10300
81	12	475	425	1059
81	12	626	210	100
81	12	626	210	87
82	01	175	425	596
82	01	275	425	2360
82	01	275	425	2495
82	01	375	425	2486
82	01	395	425	99
82	02	049	425	188
82	02	067	425	188
82	02	076	470	158
82	02	137	425	108
82	02	175	425	260
82	02	195	425	2182
82	02	195	470	700
82	02	237	470	1940
82	02	275	425	5598
82	02	275	425	586
82	02	275	425	2418
82	02	277	470	25
82	02	375	425	267
82	02	375	425	3629
82	02	377	425	1171
82	02	377	470	248
82	02	395	425	376
82	02	626	210	70
82	02	626	210	65
82	03	001	425	12
82	03	049	425	395
82	03	049	470	440
82	03	067	425	395
82	03	067	470	1320
82	03	075	425	606
82	03	097	470	3441
82	03	137	425	404
82	03	137	470	1126
82	03	175	275	37
82	03	175	425	62
82	03	175	425	41
82	03	211	470	700
82	03	237	425	568
82	03	275	275	34
82	03	275	425	1656
82	03	275	425	325
82	03	275	425	322
82	03	277	425	7
82	03	295	275	36
82	03	295	425	303

YR	MO	WA	GEAR	POUNDS
82	03	375	275	3
82	03	375	310	49
82	03	375	425	782
82	03	375	425	918
82	03	375	425	342
82	03	375	425	27
82	03	375	425	2208
82	03	377	275	3767
82	03	377	275	918
82	03	377	275	377
82	03	377	425	268
82	03	377	425	22
82	03	377	470	2370
82	03	395	425	440
82	03	395	425	790
82	03	475	425	4
82	03	475	425	13
82	03	475	425	1960
82	03	631	425	4
82	03	631	470	53
82	03	632	210	15
82	04	003	310	66
82	04	049	425	884
82	04	049	470	5890
82	04	055	470	6
82	04	057	470	6
82	04	059	425	90
82	04	067	425	282
82	04	067	470	803
82	04	076	275	817
82	04	097	470	733
82	04	137	470	95
82	04	175	275	262
82	04	175	425	83
82	04	175	425	345
82	04	195	275	30
82	04	237	470	300
82	04	275	275	75
82	04	275	275	27
82	04	275	425	35
82	04	275	425	136
82	04	275	425	145
82	04	275	425	16
82	04	295	470	9
82	04	295	470	200
82	04	311	275	16
82	04	311	275	30
82	04	311	470	15
82	04	375	425	203
82	04	375	425	519
82	04	375	425	2494
82	04	375	425	1021
82	04	377	275	116
82	04	377	275	826
82	04	377	275	688
82	04	395	425	300
82	04	395	425	162
82	04	411	275	2000
82	04	411	470	400
82	04	475	425	35

YR	MO	WA	GEAR	POUNDS
82	04	475	425	1637
82	04	475	425	5489
82	04	626	210	15
82	04	631	470	33
82	04	635	210	57
82	05	055	470	20
82	05	067	470	263
82	05	111	275	16
82	05	111	275	18
82	05	175	275	351
82	05	175	275	85
82	05	175	425	1062
82	05	195	020	32
82	05	195	275	5
82	05	275	275	69
82	05	275	425	10
82	05	375	425	200
82	05	375	425	228
82	05	377	275	167
82	05	377	275	500
82	05	377	275	513
82	05	411	275	2800
82	05	475	425	518
82	05	625	210	24
82	06	111	275	6
82	06	175	275	17
82	06	175	275	226
82	06	311	610	10
82	06	377	275	139
82	06	377	275	89
82	06	411	275	200
82	07	175	275	29
82	07	377	275	21
82	07	377	275	8
82	07	631	610	73
82	08	111	275	15
82	08	175	275	131
82	08	311	610	19
82	08	377	275	75
82	08	377	275	30
82	09	073	610	40
82	09	111	275	9
82	09	311	275	7
82	09	311	470	100
82	09	311	610	26
82	09	375	275	14
82	09	375	425	183
82	09	377	275	109
82	09	377	275	83
82	09	475	425	1035
82	10	111	275	103
82	10	175	275	85
82	10	211	470	6
82	10	311	275	16
82	10	311	470	31
82	10	375	275	14
82	10	375	425	2958
82	10	375	425	171
82	10	375	425	3856
82	10	375	425	8122

YR	MO	WA	GEAR	POUNDS
82	10	377	270	1226
82	10	377	275	97
82	10	377	275	681
82	10	475	425	6145
82	11	137	470	19
82	11	175	275	49
82	11	175	275	132
82	11	175	425	15
82	11	175	425	19
82	11	175	425	15
82	11	211	470	124
82	11	211	470	50
82	11	275	425	66
82	11	311	470	100
82	11	375	425	3686
82	11	375	425	232
82	11	375	425	10713
82	11	377	275	309
82	11	377	275	2263
82	11	475	425	2275
82	11	625	210	7
82	12	076	425	201
82	12	175	425	45
82	12	175	425	9
82	12	275	425	651
82	12	275	425	15
82	12	277	275	1063
82	12	311	470	40
82	12	375	425	2181
82	12	375	425	3667
82	12	377	425	45
82	12	377	425	1175
82	12	475	425	1715
82	12	625	210	122
82	12	631	210	10
83	01	074	470	211
83	01	137	425	259
83	01	275	425	1000
83	01	275	425	442
83	01	277	470	363
83	01	375	425	567
83	01	375	425	1266
83	01	377	425	171
83	01	377	425	718
83	01	395	425	471
83	01	475	425	989
83	01	475	425	1500
83	01	631	210	34
83	01	632	210	25
83	02	001	470	43
83	02	074	470	72
83	02	137	425	258
83	02	275	425	423
83	02	275	425	400
83	02	275	425	896
83	02	277	425	140
83	02	295	425	82
83	02	295	425	5
83	02	375	425	390
83	02	375	425	1985

YR	MO	WA	GEAR	Pounds	YR	MO	WA	GEAR	Pounds	YR	MO	WA	GEAR	Pounds
83	02	377	425	45	83	04	411	275	435	83	09	277	275	(140) LT
83	02	377	425	42	83	04	475	425	3	83	09	375	425	542 } PR
83	02	395	425	326	83	04	475	425	3388	83	09	375	425	304
83	02	475	425	2918	83	04	475	425	388	83	09	375	425	153 PR
83	02	475	425	5540	83	04	625	470	66	83	09	375	610	573 PR
83	03	003	275	33	83	04	625	470	500	83	09	377	275	1009
83	03	059	425	136	83	04	626	210	15	83	09	377	275	3616 } UT
83	03	074	275	62	83	04	631	470	31	83	09	377	275	49 } R
83	03	111	275	4	83	05	097	470	82	83	10	043	275	164 } PR
83	03	275	425	133	83	05	097	470	7	83	10	059	275	239 } PR
83	03	275	425	531	83	05	111	275	407	83	10	111	275	16
83	03	277	275	308	83	05	175	275	23	83	10	111	275	142 } B
83	03	295	425	13	83	05	175	275	29	83	10	111	275	65
83	03	295	470	35	83	05	195	275	25	83	10	175	275	99
83	03	311	275	42	83	05	211	610	76	83	10	175	275	1361 } PR
83	03	311	275	9	83	05	275	275	48	83	10	175	425	98
83	03	311	470	21	83	05	275	425	2	83	10	195	275	14 VRL
83	03	375	425	1054	83	05	277	275	691	83	10	211	470	76 B
83	03	375	425	2287	83	05	311	275	18	83	10	275	275	29
83	03	377	275	95	83	05	311	275	8	83	10	275	425	754 } PR
83	03	377	275	259	83	05	311	470	11	83	10	275	610	443
83	03	377	425	16	83	05	311	470	498	83	10	275	610	400
83	03	377	425	985	83	05	375	425	142	83	10	277	275	62 LT
83	03	395	425	670	83	05	375	425	118	83	10	311	610	21 B
83	03	475	425	2265	83	05	377	275	475	83	10	375	425	2182 } PR
83	03	625	425	1863	83	05	377	275	2012	83	10	375	425	12533 } PR
83	03	631	275	14	83	05	377	275	2459	83	10	375	610	209
83	03	631	470	78	83	05	411	275	331	83	10	375	610	179
83	03	632	210	87	83	05	475	425	698	83	10	377	275	110
83	03	097	470	518	83	05	625	210	38	83	10	377	275	167
83	04	097	470	8	83	05	625	210	32	83	10	377	275	165 } U
83	04	111	275	287	83	05	625	210	37	83	10	377	425	212 } R
83	04	137	425	97	83	06	111	275	9	83	10	377	425	200
83	04	137	425	12	83	06	175	275	54	83	10	377	425	521
83	04	175	275	31	83	06	175	275	6	83	10	411	275	76 B
83	04	175	425	948	83	06	175	425	225	83	11	195	275	9 LT
83	04	175	425	684	83	06	177	275	95	83	11	311	275	60 B
83	04	177	275	389	83	06	195	275	19					
83	04	195	275	4	83	06	277	275	37					
83	04	211	470	1000	83	06	311	275	29					
83	04	237	425	97	83	06	311	470	2631					
83	04	275	275	33	83	06	377	275	97	9	467 (93%)	104	104	123
83	04	275	275	78	83	07	111	275	9					
83	04	275	425	99	83	07	175	275	21	10	1375 (11%)	76	320	0
83	04	275	425	37	83	07	175	425	15					
83	04	275	425	22	83	07	375	610	21					
83	04	277	425	1860	83	07	377	275	88	11				
83	04	295	425	144	83	08	111	275	9					
83	04	295	425	55	83	08	175	275	5					
83	04	311	275	114	83	08	175	275	75					
83	04	311	275	31	83	08	195	275	25					
83	04	311	470	1	83	08	375	610	13					
83	04	311	610	11	83	08	377	275	109					
83	04	375	425	1145	83	08	377	275	83					
83	04	375	425	1557	83	09	047	275	123 E.S.					
83	04	377	275	491	83	09	076	275	357 P.R.					
83	04	377	275	3948	83	09	111	275	104 B					
83	04	377	275	546	83	09	175	275	4 P.R.					
83	04	377	425	5026	83	09	275	610	101 P.R.					
83	04	395	425	150	83	09	275	610	217					

*preliminary*

	UT	LT	B	
9	467 (93%)	104	104	123
10	1375 (11%)	76	320	0

*pounds / sl. gill*