

Reports

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**A Documentation of Virginia Trawl Surverys, 1955-1984, Listing Pertinent Variables: Date, Station Location, Gear, Vessel, Tow Direction, and Type of Survey Volume V: Potomac River**

Frank J. Wojcik  
*Virginia Institute of Marine Science*

Willard A. Van Engel  
*Virginia Institute of Marine Science*

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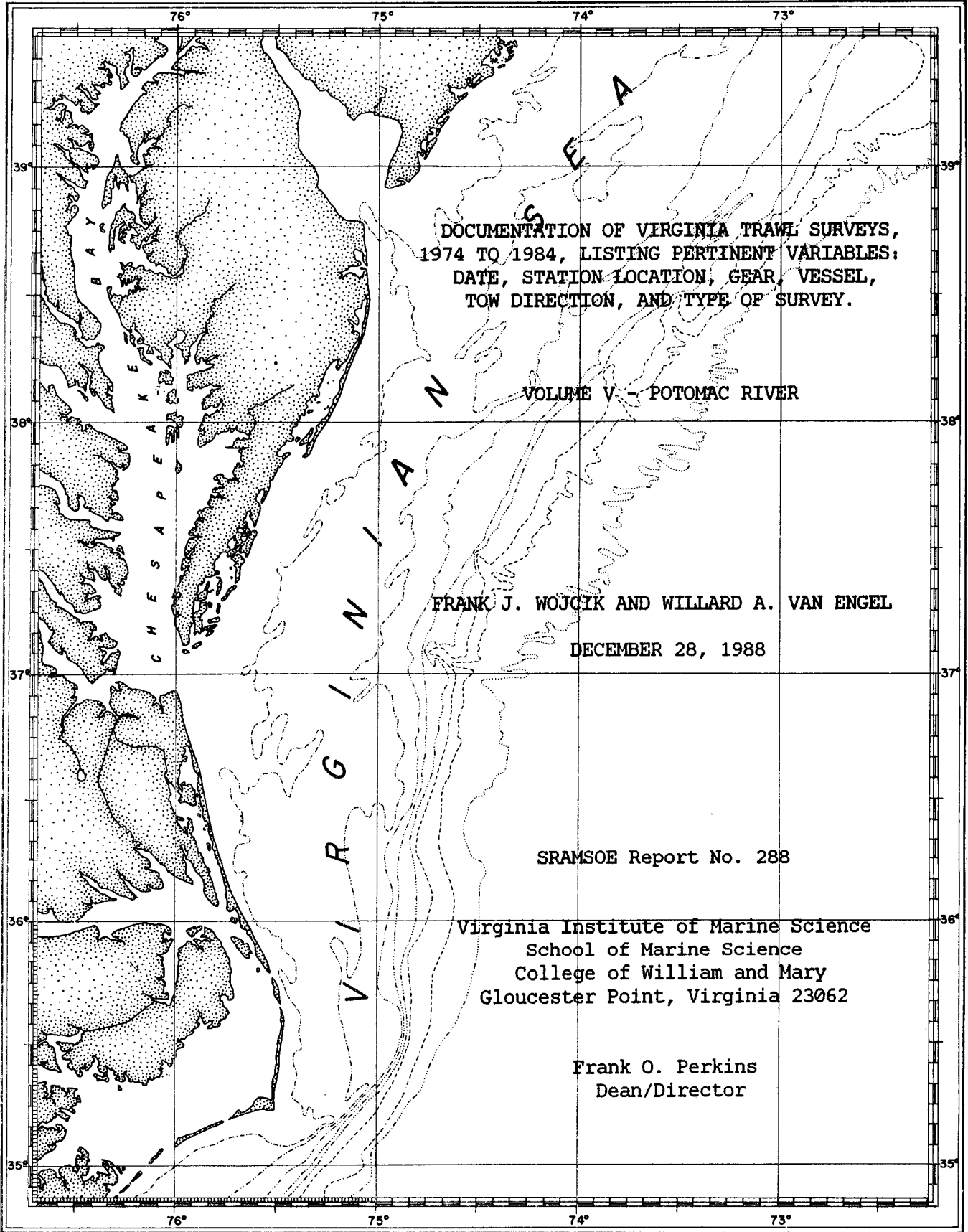
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DOCUMENTATION OF VIRGINIA TRAWL SURVEYS,  
 1974 TO 1984, LISTING PERTINENT VARIABLES:  
 DATE, STATION LOCATION, GEAR, VESSEL,  
 TOW DIRECTION, AND TYPE OF SURVEY.

VOLUME V - POTOMAC RIVER

FRANK J. WOJCIK AND WILLARD A. VAN ENGEL

DECEMBER 28, 1988

SRAMSOE Report No. 288

Virginia Institute of Marine Science  
 School of Marine Science  
 College of William and Mary  
 Gloucester Point, Virginia 23062

Frank O. Perkins  
 Dean/Director

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DOCUMENTATION OF VIRGINIA TRAWL SURVEYS, 1974-1984, LISTING PERTINENT  
VARIABLES: DATE, STATION LOCATION, GEAR, VESSEL, TOW DIRECTION,  
AND TYPE OF SURVEY.

VOLUME V -POTOMAC RIVER

The Virginia Institute of Marine Science (VIMS) has been conducting trawl surveys in Virginia's portion of Chesapeake bay and its tributary rivers since 1955. The purpose of the surveys is to monitor stocks of young-of-the year fishes in those waters. In addition, the surveys provide information on life history, growth, movements and the dynamics of Chesapeake Bay fish populations. Data are stored on magnetic tape, using the Prime 9955 computer at VIMS. Abundance data are stored in Fortran (F77) files called "Afish"//Yrs. In addition, another set of Fortran (F77) files "Frank.19"//Yrs contains the corresponding length measurement data. Collectively, these files contain about 120,000 records for the York, James, Rappahannock, and Potomac rivers, and in the Chesapeake Bay for the years 1955 to 1984.

Initially all of the data were collected with a 30' semi-balloon otter trawl, but later a smaller 16' semi-balloon otter trawl was added for use in confined or shallow areas. The 30' semi-balloon trawl used in 1955 was manufactured by the Marinovich Trawl Co. Steve Marinovich, owner of that company has provided us with copies of the original net drawings including specifications. He was also able to provide us with information on changes made in the trawls over the years. These specifications are presented in Figures 2 and 3, and Appendices B and C. Those show that in subsequent years changes were made in the body and wings of the trawls, along with changes from unlined to lined cod-end. Cotton thread used originally in the construction of the early trawls, was replaced by nylon. In addition to changes in trawl dimension, there were rigging changes and changes in the dimensions of the trawl boards and in the bridle lengths. Recently, a tickler chain was added. Lastly net makers have changed: hopefully trawls purchased from other net companies were fabricated according to the current "Marinovich" specifications.

William H. Massmann, who initiated the surveys adopted a fixed, rather than a randomized station plan, to be run in the deep channels of all rivers. Subsequent investigators followed the same plan until 1973, at which time Walter J. Hoagman and W. Jackson Davis of the VIMS Fisheries Department decided that a change in procedure to a stratified, randomized, semi-annual (summer and winter) survey was needed. A statistical review of the accumulated trawl data had revealed that the samples for any month were too small to be significant, and in addition were not suitable for any statistical analysis because they were not random. The first randomizations were made by latitude and longitude from the various depth strata, which proved awkward and were altered in 1978. This new randomization plan called for the division of each river into four depth strata, each stratum sectioned into quarter mile blocks. In each stratum, the blocks were permanently numbered progressively up-river to the end of sampling area, and then numbering was resumed at the mouth of the river for the next stratum.

Numbers were not duplicated within a river. Later a fifth depth stratum was added. Latitudes and longitudes for the random stations are presented by depth strata in Appendices D and E. When a new survey was planned, the stations to be occupied were drawn from a table of random numbers. This proved to be time consuming, so a program was developed by Frank J. Wojcik in Fortran (F77) for drawing random stations using the random number generator programmed into the computer.

Failure of the semi-annual, randomized, stratified plan became apparent in 1979 when the the trawl surveys failed to provide any indication of the huge buildup in the weakfish population. Examination of all York River weakfish data (1955 to 1979) showed that the semi-annual trawl survey sampled the areas at the time of the year when juvenile weakfish were not present. Based upon this evidence Frank J. Wojcik and John V. Merriner felt it was imperative that the smaller, monthly, non-random channel surveys be resumed, especially when it was noted that different species use the river nursery grounds at different times of the year. When this was done in the York River in 1979, a large catch of juvenile weakfish was obtained, all within the period September through November. This demonstrated conclusively that within the constraints of time and money, that the fixed, monthly, channel sampling was the better plan, and was resumed for all rivers in May of 1981 and has continued to the present.

Because of the various changes in gear and procedure that have occurred over the course of the surveys, it was felt the changes should be documented. The format of the data, presented with some explanation of the abbreviations used, is given in Table 1. Vessel codes in Appendix A, gear codes and their corresponding gear descriptions are presented in Appendices B and C, while station locations are presented in in Appendices D to F.

The amount of survey data was so voluminous that it was decided that documentation would best be presented separately for each area. The volume setup follows. Volume I has the data for Chesapeake Bay, Volume II for the York River, Volume III for the James River, Volume IV for the Rappahannock River and Volume V for the Potomac River. Date, station location, gear type and specifications, vessel, tow direction and type of survey (fixed or random) are tabulated.

## Potomac River 1974-1984 (Volume V)

Volume V describes the surveys on the Potomac River which, because it is the most distant river from VIMS, was the last on which a survey was begun (1974). While it is the largest of the rivers we sampled, it is the one on which we have sampled the least. Fixed, channel trawl stations were made in the Potomac between 1974 and February 1976. Stations of the stratified random type were added in January 1975. Sampling during the summer of 1979 was of the fixed type. No stations were occupied in 1980. In the winter of 1981 and 1982 stations were random, and from the summer of 1982 through 1984 all sampling was again of the fixed channel type. Fixed sampling consisted generally of a survey starting at the mouth of the river (P000), and continuing upriver 65 miles to about the Quantico Marine Base (P065), occasionally to mile 94, Washington, D.C. (P094). However, the section of river between P021, and P044 is in a restricted area and was not sampled.

### POTOMAC RIVER SAMPLE SITES

For the years 1974-1984, FIXED STATIONS (F) coded as P0000-P0020, P0045-P0094 by either 1 or 5 mile intervals, are located by latitudes and longitudes in Appendix D. A tow time of 25 indicates a quarter of a mile distance towed rather than the actual time.

For the years 1975-1976, RANDOM STATIONS (R) coded as P0000n-P0094n were 1/4 mile stations in each 1-mile block. The numerical value of n, the fourth digit, describes the location of the 1/4 mile section. When n is blank = first 1/4 mile, 1 = between 1/4 and 1/2 mile, 2 = between 1/2 and 3/4 mile, 3 = between 3/4 and the next whole mile. A tow time of 25 indicates a quarter mile distance towed, rather than the actual time. Locations are shown to the nearest 1/4 mile in Appendix E.

For the years 1977-1983, RANDOM STATIONS (R) with the following codes are shown in Appendix F. A tow time of 25 indicates a quarter of a mile distance towed rather than the actual time.

P0001-P0271 were at depths between 12' and 19' and were designated as green (G) sites.

P0301-P0840 were at depths between 20' and 29' and were designated as blue (B) sites.

P0891-P01392 were at depths between 30' and 49' and were designated as white (W) sites.

P01403-P01596 were at depths over 49' and were designated as red (R) sites.



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Table 1 -VARIABLES ASSIGNED TO THE VIMS TRAWL SURVEYS.

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1. MO/DA            Month and day of collection.
2. F, R            Fixed (F) or stratified random (R) station.
3. SAMPLE SITE    One or two letter code designating the river or bay site, followed by either (a) the number of nautical miles from the mouth of the river; or (b) a specific location, e.g., YKN10 indicates this station was made on the north side of the York River channel about mile 10; or (c) three or four numbers representing quarter-mile blocks. Detailed codes for each river and bay are given in specific volumes.
4. COLL NOS.      Survey code (2-letters), followed by a 3-digit collection number, sequential for each year.  
F for Fisheries Department: 1955-1964, 1966-1972.  
N for Nursery Ground Study: 1965  
A for Alosa Survey: 1973-1975  
I for Ichthyology Department: 1974-1982.  
L for Data collected by Linda Pushee Mercer: 1971.
5. VESSEL        Two-letter code used until mid-1981, then a gradual change to a 2-digit code (See Appendix A).
6. GR CD         Two-digit gear code (See Appendix B).
7. W, A          Direction of tow: W with tide, A against tide.
8. TOW            Tow time, 1-15 minutes, is the length of time that the trawl was pulled over the bottom at full trawling speed. Since speed for a given rpm varied with vessels used, the rpm needed to produce a slack water ground speed of 3 mph was calibrated for each vessel. A recorded time of over 15 minutes indicates actual distance covered, instead of time trawled: thus, a value of 25 corresponds to a quarter of a mile, 0.25 M.
9. DOOR          Door sizes varied: 48" x 22" and 54" x 25" for 30' trawls and 24' x 12' for the 16' trawl net (see Appendix B).
10. TICK CHAN    NO-tickler chain not used. YES-tickler chain used (see Appendix B).
11. BDL LGT      Length of bridle was not considered important in the early phases of the survey and it was not until comparison tows were made that attention was paid to this variable. A 90' bridle with the 30' trawl appears to provide the maximum catch, but was found to be too long for some waters, so a 60' bridle was adopted as the present standard (see Appendix B).

12. TRAWL TYPE    Trawls were of three types: 30' semi-balloon (30'SB), 16' semi-balloon (16'SB), and 16' two-seam (16'2S).
13. BODY MESH    Body mesh varied: 1" through 1960, then generally 1-1/2" when new, but shrinking considerably with time, especially in the early cotton nets (see Appendix B).
14. THD TYP      Thread type varied from cotton (C) to nylon (N). At some stage, both types were probably in use (see Appendix B and C).
15. LINER MESH    Cod end was either unlined, or lined (L) with 1/2" stretched mesh or 1/4" bar mesh (see Appendix B).
16. BAG MESH      Bag mesh was 3/4" through 1960, then 1-1/4", but some shrinkage occurred (see Appendix B). Mesh on 16' trawl was 1-1/4" throughout entire use.

FIGURE 1 Chart of The Potomac River.

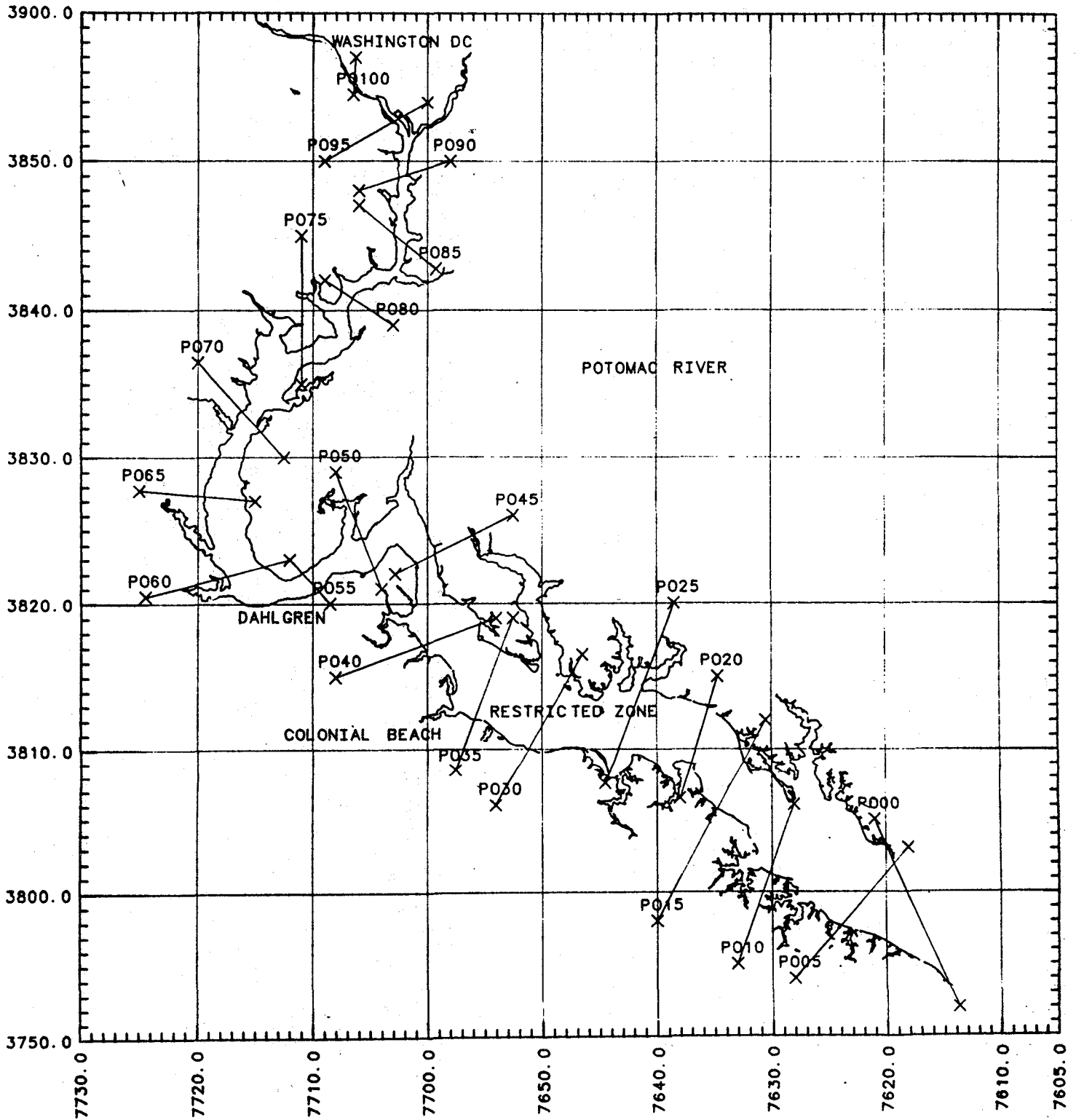
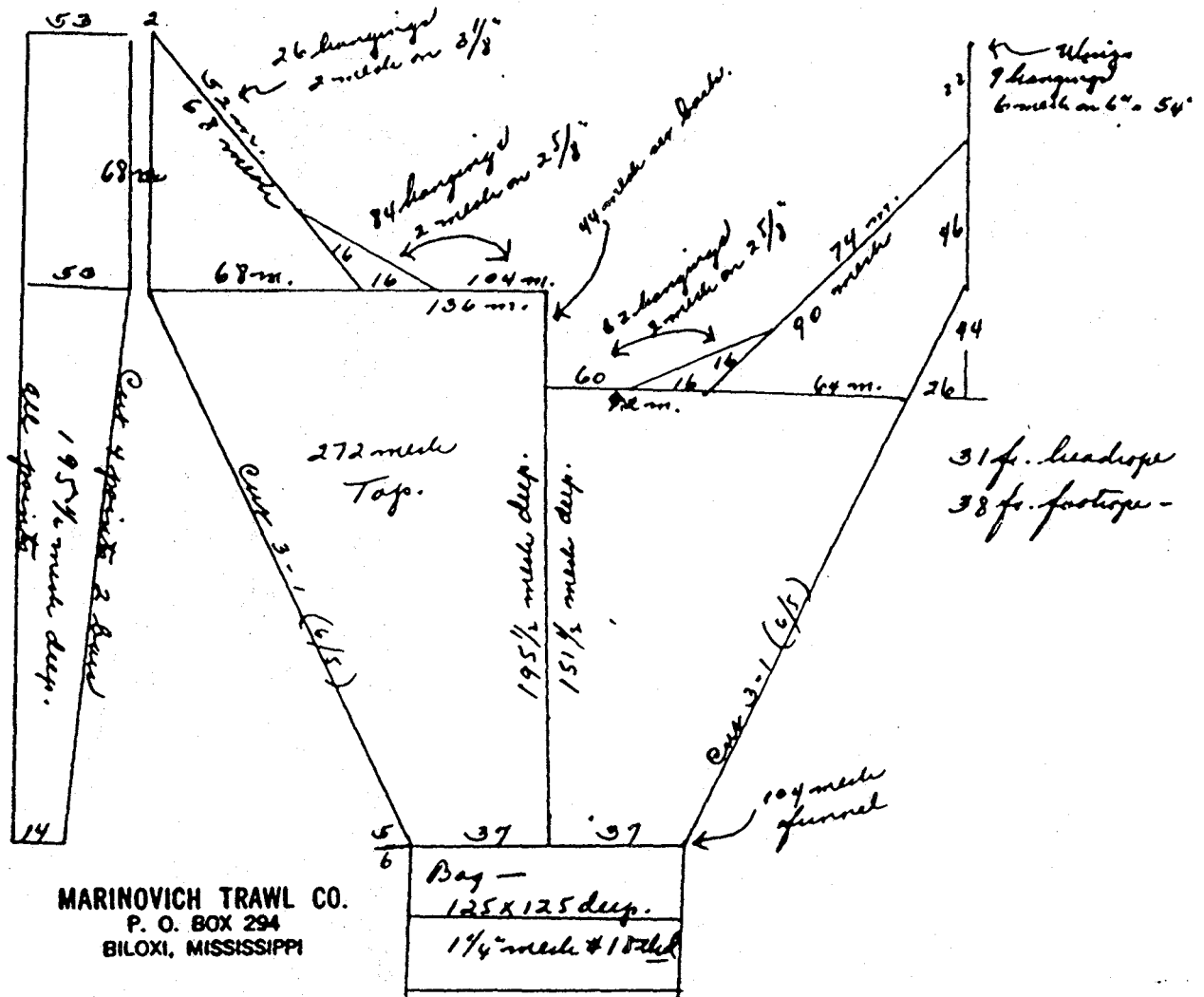


FIGURE 2 Diagram of the Original VIMS 30' Trawl.



**30ft. SEMI-BALLON TRAWL:**

31ft. headrope, 37ft. footrope, net made of cotton netting of the following size mesh and thread;  $1\frac{1}{2}$  inch mesh # 9 thread body,  $1\frac{1}{4}$  inch mesh # 18 thread bag, net hung on  $7/16$  inch diameter hemp net rope, legs extended from net 6ft. with wire rope thimbels spliced at each end, 2/0 galvanized chain on footrope, hung loop style, 16 links to 12 inches, Ask floats on headrope, nets treated in green net preservative, complete in every respect, code 68 H 3 &  $2\frac{1}{2}$  inch.

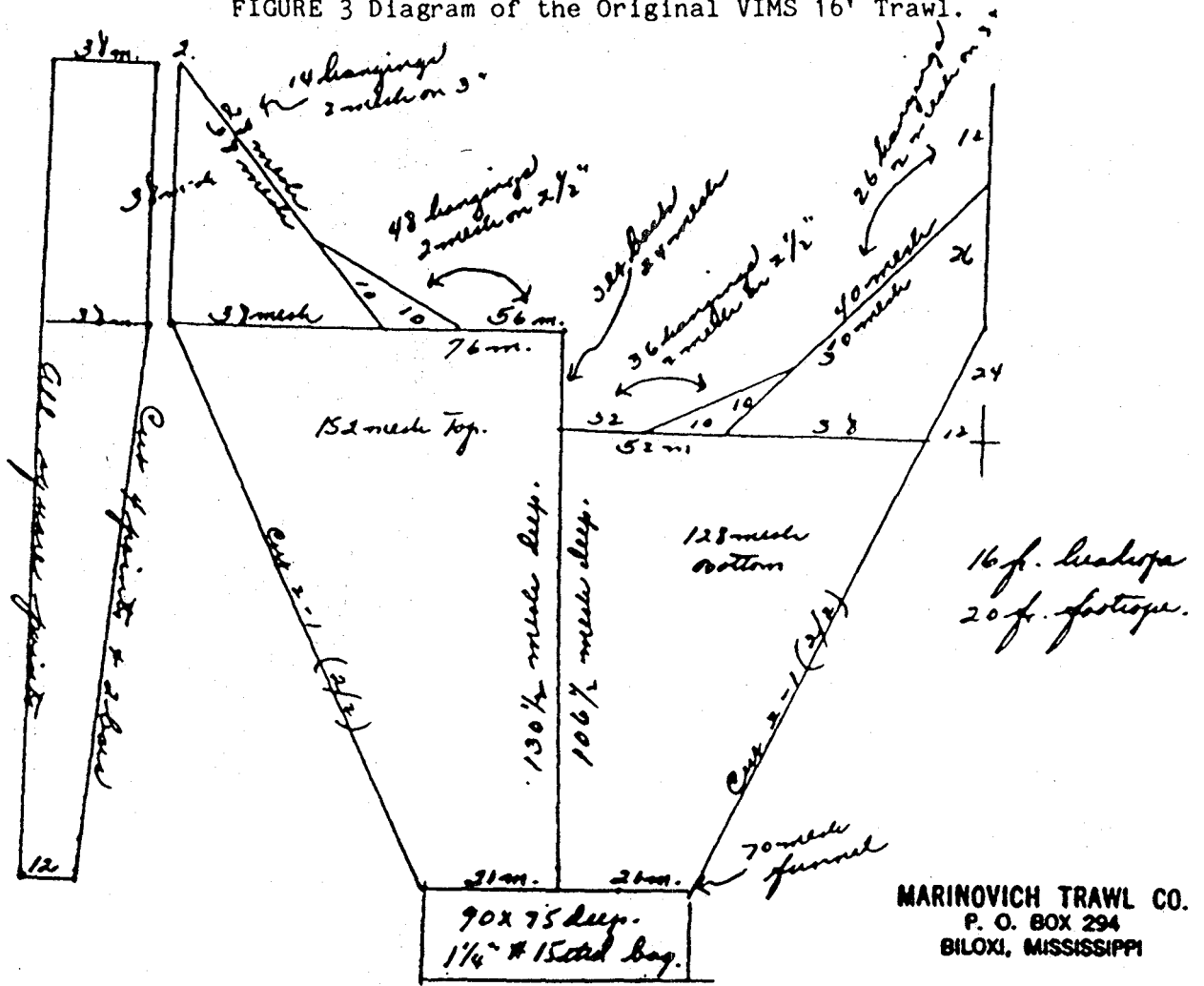
**TRAWL DOORS:** Suitable for above net, trawl doors 48 inch in length and 22 inch in width, doors made of one inch pine lumber,  $1\frac{1}{2}$  X  $2\frac{1}{2}$  straps and braces,  $3/8$  X  $2\frac{1}{2}$  bottom shoe runner,  $3/16$  inch galvanized chainbridle,  $3/8$  inch swivel, doors set and ready to use.

MARINOVICH TRAWL COMPANY

BY *Steve J. Marinovich*  
Steve J. Marinovich

4/20/63.

FIGURE 3 Diagram of the Original VIMS 16' Trawl.



**16ft; SEMI-BALLON TRAWL:**

16ft. headrope , 20ft. footrope , net made of nylon netting of the following size mesh and thread;  $1\frac{1}{2}$  inch mesh # 9 thread body ,  $1\frac{1}{2}$  inch mesh # 15 thread bag with an innerliner of  $\frac{1}{2}$  inch stretch mesh # 208 nylon fine yarn netting, net hung on  $\frac{3}{8}$  inch poly-dac net rope , legs extended from net 3ft. with wire rope thimbels spliced at each end and shackles attached to fasten unto doors, ark floats on headrope ,  $\frac{1}{8}$  inch galvanized chain on footrope , loop style , net treated in green copper naphthenate net preservative , complete in every respect and ready to use , code 38 H 3 &  $2\frac{1}{2}$  inch.

**Trawl doors to fit above net;**

Trawl doors 24 inch in length and 12 inch in width , doors made of one inch mahogany lumber , straps and braces of  $1 \times \frac{1}{4}$  inch mild steel , bottom shoe runner of  $\frac{3}{8} \times 2$  inch mild steel , doors bridled with 2/0 galvanized chain with one  $\frac{5}{16}$  inch steel swivel at the head of each bridle , doors set and ready to use ; Towline rigged of 80 ft. of  $\frac{3}{8}$  inch diameter nylon rope , 20ft .bridle spliced in and rigged with shackles to tow from one line , complete in every respect and ready to use.

MARINOVICH TRAWL COMPANY

BY: *Steve J. Marinovich*  
Steve J. Marinovich

VIMS ICHTHYOLOGY TRAWL SURVEY -1974  
 -LISTING BY F.J.WOJCIK MARCH, 1986  
 FOR DATA SET (AFISH74.XCD)

MO/DA	F	SAMPL	COLL	VS	GR	W	TOW	DOOR	TICK	BDL	TRAWL	BODY	THD	LINER	BAG	
R		SITE	NOS.	CD	CD	A	TIM	SIZE	CHAN	LGT	TYPE	MESH	TYP	MESH	MESH	
01/14	F	P094	A001	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/14	F	P093	A002	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/14	F	P091	A003	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/14	F	P090	A004	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/14	F	P089	A005	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/14	F	P088	A006	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/14	F	P086	A007	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/14	F	P085	A008	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/14	F	P084	A009	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/14	F	P083	A010	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/14	F	P081	A011	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/14	F	P080	A012	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/14	F	P079	A013	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/14	F	P078	A014	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/14	F	P076	A015	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/14	F	P075	A016	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/14	F	P074	A017	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/14	F	P073	A018	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/14	F	P071	A019	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/14	F	P070	A020	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/14	F	P069	A021	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/15	F	P068	A022	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/15	F	P066	A023	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/15	F	P065	A024	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/15	F	P064	A025	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/15	F	P063	A026	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/15	F	P061	A027	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/15	F	P060	A028	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/15	F	P059	A029	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/15	F	P058	A030	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/15	F	P056	A031	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/15	F	P055	A032	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/15	F	P054	A033	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/15	F	P053	A034	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/15	F	P051	A035	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/15	F	P050	A036	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/15	F	P049	A037	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"

MO/DA	F	SAMPL	COLL	VS	GR	W	TOW	DOOR	TICK	BDL	TRAWL	BODY	THD	LINER	BAG
R		SITE	NOS.	CD	CD	A	TIM	SIZE	CHAN	LGT	TYPE	MESH	TYP	MESH	MESH

01/15	F	PO48	A038	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N	L	1/2"	1-1/4"
01/15	F	PO46	A039	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N	L	1/2"	1-1/4"
01/15	F	PO45	A040	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N	L	1/2"	1-1/4"
01/16	F	PO20	A041	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N	L	1/2"	1-1/4"
01/16	F	PO19	A042	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N	L	1/2"	1-1/4"
01/16	F	PO18	A043	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N	L	1/2"	1-1/4"
01/16	F	PO16	A044	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N	L	1/2"	1-1/4"
01/16	F	PO15	A045	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N	L	1/2"	1-1/4"
01/16	F	PO14	A046	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N	L	1/2"	1-1/4"
01/16	F	PO13	A047	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N	L	1/2"	1-1/4"
01/16	F	PO11	A048	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N	L	1/2"	1-1/4"
01/16	F	PO10	A049	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N	L	1/2"	1-1/4"
01/16	F	PO09	A050	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N	L	1/2"	1-1/4"
01/16	F	PO08	A051	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N	L	1/2"	1-1/4"
01/16	F	PO06	A052	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N	L	1/2"	1-1/4"
01/16	F	PO05	A053	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N	L	1/2"	1-1/4"
01/16	F	PO04	A054	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N	L	1/2"	1-1/4"
01/16	F	PO03	A055	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N	L	1/2"	1-1/4"
01/16	F	PO01	A056	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N	L	1/2"	1-1/4"
01/16	F	PO00	A057	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N	L	1/2"	1-1/4"

09/10	F	PO45	A319	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N	L	1/2"	1-1/4"
09/10	F	PO50	A320	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N	L	1/2"	1-1/4"
09/10	F	PO55	A321	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N	L	1/2"	1-1/4"
09/10	F	PO60	A322	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N	L	1/2"	1-1/4"
09/10	F	PO65	A323	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N	L	1/2"	1-1/4"
09/10	F	PO70	A324	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N	L	1/2"	1-1/4"
09/10	F	PO75	A325	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N	L	1/2"	1-1/4"
09/10	F	PO80	A326	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N	L	1/2"	1-1/4"
09/10	F	PO85	A327	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N	L	1/2"	1-1/4"
09/10	F	PO90	A328	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N	L	1/2"	1-1/4"
09/10	F	PO94	A329	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N	L	1/2"	1-1/4"
09/17	F	PO20	A330	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N	L	1/2"	1-1/4"
09/17	F	PO15	A331	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N	L	1/2"	1-1/4"
09/17	F	PO10	A332	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N	L	1/2"	1-1/4"
09/17	F	PO05	A333	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N	L	1/2"	1-1/4"
09/17	F	PO00	A334	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N	L	1/2"	1-1/4"

VIMS ICHTHYOLOGY TRAWL SURVEY -1975  
 -LISTING BY F.J.WOJCIK MARCH, 1986  
 FOR DATA SET (AFISH75.XCD)

MO/DA	F	SAMPL	COLL	VS	GR	W	TOW	DOOR	TICK	BDL	TRAWL	BODY	THD	LINER	BAG
R		SITE	NOS.	CD	CD	A	TIM	SIZE	CHAN	LGT	TYPE	MESH	TYP	MESH	MESH
01/13	R	PO0941	A001	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/13	R	PO0923	A002	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/13	R	PO0912	A003	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/13	R	PO090	A004	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/13	R	PO0892	A005	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/13	R	PO0881	A006	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/13	R	PO0871	A007	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/13	R	PO0853	A008	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/13	R	PO0833	A009	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/13	R	PO0832	A010	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/13	R	PO0813	A011	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/13	R	PO0803	A012	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/13	R	PO079	A013	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/13	R	PO0782	A014	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/13	R	PO077	A015	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/13	R	PO0752	A016	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/13	R	PO0733	A017	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/13	R	PO0731	A018	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/13	R	PO0712	A019	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/13	R	PO0702	A020	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/13	R	PO0691	A021	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/13	R	PO068	A022	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/13	R	PO0663	A023	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/13	R	PO066	A024	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/14	R	PO0633	A025	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/14	R	PO0623	A026	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/14	R	PO062	A027	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/14	R	PO0602	A028	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/14	R	PO059	A029	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/14	R	PO0582	A030	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/14	R	PO0571	A031	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/14	R	PO0552	A032	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/14	R	PO054	A033	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/14	R	PO0532	A034	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/14	R	PO0521	A035	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/14	R	PO0502	A036	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"



MO/DA	F	SAMPL	COLL	VS	GR	W	TOW	DOOR	TICK	BDL	TRAWL	BODY	THD	LINER	BAG
R		SITE	NOS.	CD	CD	A	TIM	SIZE	CHAN	LGT	TYPE	MESH	TYP	MESH	MESH
01/14	R	P00491	A037	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/14	R	P00472	A038	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/14	R	P00463	A039	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/14	R	P00452	A040	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/15	R	P00191	A041	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/15	R	P00181	A042	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/15	R	P00161	A043	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/15	R	P00152	A044	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/15	R	P00142	A045	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/15	R	P0013	A046	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/15	R	P00122	A047	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/15	R	P0010	A048	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/15	R	P00091	A049	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/15	R	P00071	A050	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/15	R	P00071	A051	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/15	R	P0006	A052	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/15	R	P00043	A053	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/15	R	P00023	A054	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/15	R	P00021	A055	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/15	R	P0001	A056	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/15	R	P00181	A057	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/15	R	P00142	A058	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/15	R	P00072	A059	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/15	R	P00021	A060	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
09/15	F	P0000	A440	LA	33	A	05	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
09/15	F	P0005	A441	LA	33	A	05	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
09/15	F	P0010	A442	LA	33	A	05	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
09/15	F	P0015	A443	LA	33	W	05	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
09/15	F	P0020	A444	LA	33	A	05	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
09/15	F	P0002	A445	BR	35	A	05	24"X12"	NO	UNK	16'SB	1-1/2"	N L	1/2"	1-1/4"
09/15	F	P0003	A446	BR	35	W	05	24"X12"	NO	UNK	16'SB	1-1/2"	N L	1/2"	1-1/4"
09/15	F	P0004	A447	BR	35	W	05	24"X12"	NO	UNK	16'SB	1-1/2"	N L	1/2"	1-1/4"
09/15	F	P0001	A448	BR	35	A	05	24"X12"	NO	UNK	16'SB	1-1/2"	N L	1/2"	1-1/4"
09/16	F	P0045	A449	LA	33	A	05	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
09/16	F	P0050	A450	LA	33	A	05	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
09/16	F	P0055	A451	LA	33	A	05	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
09/16	F	P0060	A452	LA	33	A	05	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"

MO/DA	F	SAMPL	COLL	VS	GR	W	TOW	DOOR	TICK	BDL	TRAWL	BODY	THD	LINER	BAG
R		SITE	NOS.	CD	CD	A	TIM	SIZE	CHAN	LGT	TYPE	MESH	TYP	MESH	MESH
09/16	F	PO065	A453	LA	33	A	05	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
09/16	F	PO070	A454	LA	33	W	05	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
09/16	F	PO075	A455	LA	33	W	05	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
09/16	F	PO080	A456	LA	33	W	05	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
09/16	F	PO085	A457	LA	33	W	05	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
09/16	F	PO090	A458	LA	33	W	05	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
09/16	F	PO094	A459	LA	33	W	05	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
09/16	F	PO001	A460	BR	35	A	05	24"X12"	NO	UNK	16'SB	1-1/2"	N L	1/2"	1-1/4"
09/16	F	PO002	A461	BR	35	A	05	24"X12"	NO	UNK	16'SB	1-1/2"	N L	1/2"	1-1/4"
09/16	F	PO003	A462	BR	35	A	05	24"X12"	NO	UNK	16'SB	1-1/2"	N L	1/2"	1-1/4"
09/22	F	PO002	A463	BR	35	A	05	24"X12"	NO	UNK	16'SB	1-1/2"	N L	1/2"	1-1/4"
09/22	F	PO001	A464	BR	35	A	05	24"X12"	NO	UNK	16'SB	1-1/2"	N L	1/2"	1-1/4"
09/22	F	PO001	A465	BR	35	A	05	24"X12"	NO	UNK	16'SB	1-1/2"	N L	1/2"	1-1/4"
09/22	F	PO002	A466	BR	35	A	05	24"X12"	NO	UNK	16'SB	1-1/2"	N L	1/2"	1-1/4"
09/22	F	PO003	A467	BR	35	A	05	24"X12"	NO	UNK	16'SB	1-1/2"	N L	1/2"	1-1/4"
09/22	F	PO004	A468	BR	35	A	05	24"X12"	NO	UNK	16'SB	1-1/2"	N L	1/2"	1-1/4"
09/23	F	PO001	A469	BR	35	W	05	24"X12"	NO	UNK	16'SB	1-1/2"	N L	1/2"	1-1/4"
09/23	F	PO002	A470	BR	35	W	05	24"X12"	NO	UNK	16'SB	1-1/2"	N L	1/2"	1-1/4"
09/23	F	PO003	A471	BR	35	W	05	24"X12"	NO	UNK	16'SB	1-1/2"	N L	1/2"	1-1/4"
09/23	F	PO004	A472	BR	35	W	05	24"X12"	NO	UNK	16'SB	1-1/2"	N L	1/2"	1-1/4"
09/23	F	PO005	A473	BR	35	A	05	24"X12"	NO	UNK	16'SB	1-1/2"	N L	1/2"	1-1/4"
09/23	F	PO006	A474	BR	35	A	05	24"X12"	NO	UNK	16'SB	1-1/2"	N L	1/2"	1-1/4"

VIMS ICHTHYOLOGY TRAWL SURVEY -1976  
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 FOR DATA SET (AFISH76.XCD)

MO/DA	F	SAMPL	COLL	VS	GR	W	TOW	DOOR	TICK	BDL	TRAWL	BODY	THD	LINER	BAG
R		SITE	NOS.	CD	CD	A	TIM	SIZE	CHAN	LGT	TYPE	MESH	TYP	MESH	MESH
01/28	R	PO0033	A145	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/28	R	PO0063	A146	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/28	R	PO0111	A147	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/28	R	PO017	A148	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/29	R	PO0452	A149	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/29	R	PO0463	A150	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/29	R	PO0473	A151	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/29	R	PO0493	A152	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/29	R	PO0503	A153	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/29	R	PO052	A154	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/29	R	PO0523	A155	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/29	R	PO0542	A156	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/29	R	PO0553	A157	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/29	R	PO0563	A158	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/29	R	PO0573	A159	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/29	R	PO0583	A160	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/29	R	PO061	A161	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/29	R	PO0612	A162	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/29	R	PO0632	A163	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/29	R	PO0641	A164	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/29	R	PO065	A165	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/29	R	PO0671	A166	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/29	R	PO0682	A167	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/29	R	PO069	A168	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/29	R	PO0702	A169	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/29	R	PO0712	A170	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/29	R	PO0723	A171	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/29	R	PO0742	A172	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/29	R	PO075	A173	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/29	R	PO0763	A174	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/29	R	PO078	A175	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/29	R	PO0783	A176	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/29	R	PO0801	A177	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/29	R	PO0821	A178	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/29	R	PO0823	A179	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/29	R	PO0843	A180	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
01/29	R	PO085	A181	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"

MO/DA	F	SAMPL	COLL	VS	GR	W	TOW	DOOR	TICK	BDL	TRAWL	BODY	THD	LINER	BAG	
R		SITE	NOS.	CD	CD	A	TIM	SIZE	CHAN	LGT	TYPE	MESH	TYP	MESH	MESH	
01/29	R	PO0862	A182	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/29	R	PO088	A183	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/29	R	PO0892	A184	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/30	R	PO090	A185	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/30	R	PO0902	A186	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/30	R	PO0923	A187	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
01/30	R	PO0941	A188	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
02/04	R	PO019	A189	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
02/04	R	PO0181	A190	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
02/04	R	PO0163	A191	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
02/04	R	PO0151	A192	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
02/04	R	PO0143	A193	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
02/04	R	PO0131	A194	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
02/04	R	PO0112	A195	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
02/04	R	PO011	A196	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
02/04	R	PO0092	A197	LA	33	W	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
02/04	R	PO0072	A198	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
02/04	R	PO0062	A199	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
02/04	R	PO005	A200	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
02/04	R	PO0042	A201	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
02/04	R	PO0023	A202	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
02/04	R	PO0012	A203	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"
02/04	R	PO0003	A204	LA	33	A	25	48"X22"	NO	30'	30'	SB	1-1/2"	N L	1/2"	1-1/4"

VIMS ICHTHYOLOGY TRAWL SURVEY -1977  
 -LISTING BY F.J.WOJCIK MARCH, 1986  
 FOR DATA SET (AFISH78.XCD)

MO/DA	F	SAMPL	COLL	VS	GR	W	TOW	DOOR	TICK	BDL	TRAWL	BODY	THD	LINER	BAG
R		SITE	NOS.	CD	CD	A	TIM	SIZE	CHAN	LGT	TYPE	MESH	TYP	MESH	MESH
03/14	R	P00006	I153	LA	33	A	05	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
03/14	R	P00328	I154	LA	33	A	05	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
03/14	R	P00344	I155	LA	33	A	05	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
03/14	R	P00898	I156	LA	33	A	05	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
03/14	R	P00896	I157	LA	33	A	05	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
03/14	R	P00913	I158	LA	33	A	05	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
03/14	R	P00954	I159	LA	33	A	05	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
03/14	R	P00964	I160	LA	33	A	05	48"X22"	NO	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"

VIMS ICHTHYOLOGY TRAWL SURVEY -1978  
 -LISTING BY F.J.WOJCIK MARCH, 1986  
 FOR DATA SET (AFISH78.XCD)

MO/DA	F	SAMPL	COLL	VS	GR	W	TOW	DOOR	TICK	BDL	TRAWL	BODY	THD	LINER	BAG
R		SITE	NOS.	CD	CD	A	TIM	SIZE	CHAN	LGT	TYPE	MESH	TYP	MESH	MESH
01/09	R	PO0232	I001	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/09	R	PO0223	I002	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/09	R	PO0213	I003	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/09	R	PO0212	I004	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/11	R	PO0171	I005	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/11	R	PO0818	I006	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/11	R	PO0809	I007	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/11	R	PO0808	I008	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/11	R	PO1386	I009	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/11	R	PO1384	I010	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/11	R	PO1390	I011	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/11	R	PO1392	I012	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/11	R	PO1368	I013	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/11	R	PO1366	I014	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/11	R	PO0753	I015	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/11	R	PO1362	I016	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/11	R	PO1595	I017	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/11	R	PO0748	I098	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/11	R	PO1588	I019	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/11	R	PO1587	I020	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/12	R	PO0668	I021	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/12	R	PO0629	I022	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/12	R	PO0626	I023	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/12	R	PO0663	I024	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/12	R	PO0622	I025	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/12	R	PO0610	I026	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/12	R	PO0596	I027	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/12	R	PO1347	I028	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/12	R	PO1346	I029	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/12	R	PO1341	I030	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/12	R	PO1340	I031	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/12	R	PO0508	I032	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/12	R	PO1572	I033	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/12	R	PO1570	I034	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/12	R	PO0109	I035	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/12	R	PO1563	I036	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/12	R	PO1555	I037	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/12	R	PO1536	I038	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/12	R	PO1526	I039	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/12	R	PO1510	I040	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"

MO/DA	F	SAMPL	COLL	VS	GR	W	TOW	DOOR	TICK	BDL	TRAWL	BODY	THD	LINER	BAG
	R	SITE	NOS.	CD	CD	A	TIM	SIZE	CHAN	LGT	TYPE	MESH	TYP	MESH	MESH
01/12	R	P00470	I041	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/12	R	P01494	I042	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/12	R	P01491	I043	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/12	R	P01468	I044	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/12	R	P01463	I045	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
01/12	R	P01458	I046	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
02/28	R	P01407	I285	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
02/28	R	P01415	I286	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
02/28	R	P01202	I287	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
02/28	R	P01429	I288	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
02/28	R	P01221	I289	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
02/28	R	P01232	I290	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
02/28	R	P01233	I291	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
02/28	R	P00307	I277	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
02/28	R	P00311	I278	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
02/28	R	P00899	I279	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
02/28	R	P00904	I280	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
02/28	R	P00902	I281	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
02/28	R	P00927	I282	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
02/28	R	P00948	I283	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
02/28	R	P00961	I284	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
02/28	R	P00363	I292	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
02/28	R	P00516	I293	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
02/28	R	P00521	I294	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
02/28	R	P00125	I295	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
02/28	R	P00123	I296	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
02/28	R	P00118	I297	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
02/28	R	P00498	I298	LA	33	A	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
03/01	R	P00116	I299	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
03/01	R	P00433	I300	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
03/01	R	P00429	I301	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
03/01	R	P00050	I302	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
03/01	R	P00999	I303	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
03/01	R	P00984	I304	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
03/01	R	P00968	I305	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
03/01	R	P00956	I306	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
03/01	R	P00018	I307	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"
03/01	R	P00333	I308	LA	33	W	25	48"X22"	NO	30'	30'SB	1-1/2	N L	1/2"	1 1/4"

VIMS ICHTHYOLOGY TRAWL SURVEY -1979  
 -LISTING BY F.J.WOJCIK MARCH, 1986  
 FOR DATA SET (AFISH79.XCD)

MO/DA	F	SAMPL	COLL	VS	GR	W	TOW	DOOR	TICK	BDL	TRAWL	BODY	THD	LINER	BAG
R		SITE	NOS.	CD	CD	A	TIM	SIZE	CHAN	LGT	TYPE	MESH	TYP	MESH	MESH
06/14	F	P0005	I546	PA	68	A	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
06/14	F	P0005	I547	PA	68	W	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
06/14	F	P0010	I548	PA	68	A	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
06/14	F	P0010	I549	PA	68	W	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
06/14	F	P0015	I550	PA	68	A	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
06/14	F	P0015	I551	PA	68	W	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
06/14	F	P0020	I552	PA	68	A	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
06/14	F	P0020	I553	PA	68	W	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
06/13	F	P0025	I554	PA	68	W	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
06/13	F	P0025	I555	PA	68	A	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
07/11	F	P0005	I596	PA	68	A	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
07/11	F	P0005	I597	PA	68	W	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
07/11	F	P0015	I600	PA	68	A	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
07/11	F	P0015	I601	PA	68	W	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
07/11	F	P0020	I602	PA	68	A	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
07/11	F	P0020	I603	PA	68	W	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
07/11	F	P0025	I604	PA	68	A	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
07/11	F	P0025	I605	PA	68	W	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
08/11	F	P0010	I598	PA	68	A	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
08/11	F	P0010	I599	PA	68	W	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
08/09	F	P0005	I638	PA	68	W	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
08/09	F	P0005	I639	PA	68	A	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
08/09	F	P0010	I640	PA	68	W	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
08/09	F	P0010	I641	PA	68	A	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
08/09	F	P0015	I642	PA	68	W	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
08/09	F	P0015	I643	PA	68	A	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
08/09	F	P0020	I644	PA	68	W	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
08/09	F	P0020	I645	PA	68	W	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
08/09	F	P0025	I646	PA	68	W	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
08/09	F	P0025	I647	PA	68	W	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"



MO/DA	F	SAMPL	COLL	VS	GR	W	TOW	DOOR	TICK	BDL	TRAWL	BODY	THD	LINER	BAG
R		SITE	NOS.	CD	CD	A	TIM	SIZE	CHAN	LGT	TYPE	MESH	TYP	MESH	MESH
09/17	F	P0010	I680	PA	68	W	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
09/17	F	P0005	I681	PA	68	W	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
09/17	F	P0025	I682	PA	68	A	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
09/17	F	P0020	I683	PA	68	A	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
09/17	F	P0026	I684	PA	68	A	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
10/18	F	P0011	I725	PA	68	W	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
10/18	F	P0009	I726	PA	68	W	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
10/18	F	P0008	I727	PA	68	W	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
10/18	F	P0005	I728	PA	68	W	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
10/18	F	P0005	I729	PA	68	W	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
10/18	F	P0013	I730	PA	68	W	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
10/18	F	P0017	I731	PA	68	W	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
10/18	F	P0019	I732	PA	68	W	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
10/18	F	P0020	I733	PA	68	W	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
10/18	F	P0021	I734	PA	68	W	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
11/27	F	P0004	I772	PA	68	A	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
11/27	F	P0005	I773	PA	68	A	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
11/27	F	P0007	I774	PA	68	A	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
11/27	F	P0008	I775	PA	68	A	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
11/27	F	P0010	I776	PA	68	A	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
11/27	F	P0006	I777	PA	68	A	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
11/27	F	P0020	I778	PA	68	W	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"
11/27	F	P0026	I779	PA	68	W	05	54"X25"	YES	30'	30'SB	1-1/2"	N L	1/2"	1-1/4"

VIMS ICHTHYOLOGY TRAWL SURVEY -1981  
 -LISTING BY F.J.WOJCIK FEBRUARY, 1986  
 FOR DATA SET (AFISH81.XCD)

MO/DA	F	SAMPL	COLL	VS	GR	W	TOW	DOOR	TICK	BDL	TRAWL	BODY	THD	LINER	BAG
R		SITE	NOS.	CD	CD	A	TIM	SIZE	CHAN	LGT	TYPE	MESH	TYP	MESH	MESH
03/10	R	P01587	I092	JS	70	A	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"
03/10	R	P01596	I093	JS	70	W	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"
03/10	R	P01379	I095	JS	70	A	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"
03/10	R	P01386	I096	JS	70	A	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"
03/10	R	P00761	I094	JS	70	A	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"
03/10	R	P00818	I097	JS	70	A	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"
03/10	R	P00824	I098	JS	70	A	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"
03/10	R	P00836	I099	JS	70	A	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"
03/11	R	P01341	I101	JS	70	W	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"
03/11	R	P01576	I102	JS	70	A	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"
03/11	R	P01556	I103	JS	70	W	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"
03/11	R	P01454	I104	JS	70	W	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"
03/11	R	P01447	I105	JS	70	W	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"
03/11	R	P01427	I106	JS	70	W	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"
03/11	R	P01411	I107	JS	70	A	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"
03/11	R	P00639	I100	JS	70	W	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"
03/11	R	P00995	I108	JS	70	A	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"
03/11	R	P00968	I109	JS	70	A	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"

VIMS ICHTHYOLOGY TRAWL SURVEY -1982  
 -LISTING BY F.J.WOJCIK FEBRUARY, 1986  
 FOR DATA SET (AFISH82.XCD)

MO/DA	F	SAMPL	COLL	VS	GR	W	TOW	DOOR	TICK	BDL	TRAWL	BODY	THD	LINER	BAG	
R		SITE	NOS.	CD	CD	A	TIM	SIZE	CHAN	LGT	TYPE	MESH	TYP	MESH	MESH	
02/11	R	P01407	I060	JS	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
02/11	R	P01415	I061	JS	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
02/11	R	P01443	I062	JS	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
02/11	R	P01476	I063	JS	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
02/11	R	P01485	I064	JS	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
02/11	R	P01524	I065	JS	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
02/11	R	P01547	I066	JS	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
02/11	R	P01563	I067	JS	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
02/11	R	P01570	I068	JS	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
02/11	R	P01339	I069	JS	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
02/11	R	P01343	I070	JS	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
02/12	R	P01386	I073	JS	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
02/12	R	P01383	I074	JS	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
02/12	R	P01381	I075	JS	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
02/12	R	P01377	I076	JS	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
02/12	R	P01594	I077	JS	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
02/12	R	P01588	I078	JS	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
02/12	R	PO0831	I071	JS	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
02/12	R	PO0025	I072	JS	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
03/17	R	P01588	I141	JS	70	A	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
03/17	R	P01595	I142	JS	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
03/17	R	P01387	I145	JS	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
03/17	R	P01392	I146	JS	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
03/17	R	PO0770	I143	JS	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
03/17	R	PO0794	I144	JS	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
03/17	R	PO0823	I147	JS	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
03/17	R	PO0831	I148	JS	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
03/18	R	PO0678	I149	JS	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
03/18	R	P01350	I150	JS	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
03/18	R	P01561	I151	JS	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
03/18	R	P01547	I152	JS	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
03/18	R	P01527	I153	JS	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
03/18	R	P01272	I154	JS	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
03/18	R	P01473	I155	JS	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
03/18	R	P01438	I156	JS	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"

MO/DA	F	SAMPL	COLL	VS	GR	W	TOW	DOOR	TICK	BDL	TRAWL	BODY	THD	LINER	BAG	
R		SITE	NOS.	CD	CD	A	TIM	SIZE	CHAN	LGT	TYPE	MESH	TYP	MESH	MESH	
03/18	R	P01431	I157	JS	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
03/18	R	P00957	I158	JS	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
07/21	F	P0046	I349	03	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
07/21	F	P0050	I350	03	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
07/21	F	P0051	I351	03	70	A	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
07/21	F	P0055	I352	03	70	A	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
07/21	F	P0056	I353	03	70	A	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
07/21	F	P0060	I354	03	70	A	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
07/21	F	P0065	I355	03	70	A	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
07/21	F	P0065	I356	03	70	A	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
07/21	F	P0025	I357	03	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
07/21	F	P0020	I358	03	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
07/21	F	P0020	I359	03	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
07/21	F	P0016	I360	03	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
07/21	F	P0015	I361	03	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
07/21	F	P0016	I362	03	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
07/21	F	P0010	I363	03	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
07/21	F	P0006	I364	03	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
07/21	F	P0005	I365	03	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
07/21	F	P0000	I366	03	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"

VIMS ICHTHYOLOGY TRAWL SURVEY -1983  
 -LISTING BY F.J.WOJCIK MARCH, 1986  
 FOR DATA SET (AFISH83.XCD)

MO/DA	F	SAMPL	COLL	VS	GR	W	TOW	DOOR	TICK	BDL	TRAWL	BODY	THD	LINER	BAG	
R		SITE	NOS.	CD	CD	A	TIM	SIZE	CHAN	LGT	TYPE	MESH	TYP	MESH	MESH	
12/06	F	P0045	I439	03	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
12/06	F	P0045	I440	03	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
12/06	F	P0050	I441	03	70	A	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
12/06	F	P0050	I442	03	70	A	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
12/06	F	P0055	I443	03	70	A	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
12/06	F	P0055	I444	03	70	A	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
12/06	F	P0060	I445	03	70	A	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
12/06	F	P0060	I446	03	70	A	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
12/08	F	P0025	I447	03	70	A	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
12/08	F	P0025	I448	03	70	A	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
12/08	F	P0020	I449	03	70	A	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
12/08	F	P0025	I450	03	70	A	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
12/08	F	P0020	I451	03	70	A	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
12/08	F	P0015	I452	03	70	A	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
12/08	F	P0015	I453	03	70	A	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
12/08	F	P0010	I454	03	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
12/08	F	P0010	I455	03	70	A	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
12/08	F	P0005	I456	03	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"
12/08	F	P0005	I457	03	70	W	05	54"X25"	YES	60'	30'	SB	1-1/2"	N L	1/4"	1-1/4"

VIMS ICHTHYOLOGY TRAWL SURVEY -1984  
 -LISTING BY F.J.WOJCIK MARCH, 1986  
 FOR DATA SET (AFISH84.XCD)

MO/DA	F	SAMPL	COLL	VS	GR	W	TOW	DOOR	TICK	BDL	TRAWL	BODY	THD	LINER	BAG
R		SITE	NOS.	CD	CD	A	TIM	SIZE	CHAN	LGT	TYPE	MESH	TYP	MESH	MESH
12/19	F	P0045	I455	03	70	A	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"
12/19	F	P0047	I456	03	70	A	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"
12/19	F	P0053	I457	03	70	A	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"
12/19	F	P0055	I458	03	70	A	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"
12/19	F	P0056	I459	03	70	W	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"
12/19	F	P0057	I460	03	70	W	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"
12/19	F	P0062	I461	03	70	W	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"
12/19	F	P0065	I462	03	70	W	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"
12/19	F	P0047	I463	03	70	A	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"
12/19	F	P0045	I464	03	70	A	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"
12/20	F	P0025	I465	03	70	W	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"
12/20	F	P0023	I466	03	70	W	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"
12/20	F	P0020	I467	03	70	W	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"
12/20	F	P0019	I468	03	70	W	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"
12/20	F	P0014	I469	03	70	W	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"
12/20	F	P0014	I470	03	70	W	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"
12/20	F	P0011	I471	03	70	W	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"
12/20	F	P0010	I472	03	70	A	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"
12/20	F	P0006	I473	03	70	A	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"
12/20	F	P0003	I474	03	70	A	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"
12/20	F	P0002	I475	03	70	A	05	54"X25"	YES	60'	30'SB	1-1/2"	N L	1/4"	1-1/4"

APPENDIX A

VESSEL CODES USED IN THE VIMS TRAWL SURVEY

Alpha Numeric Code	Numeric Code	Vessel Name	OAL	Hull	Type
BR	07	W.K.Brooks	30'	Wood	Launch
EM		Edith Mae	26'	Wood	Launch
IN		Investigator	28'	Wood	Launch
IV		Irma Virginia	65'	Wood	Trawler
JA		Judith Ann		FGlass	Launch
JS	03	Captain John Smith	42'	FGlass	Launch
	17	Langley II	44'	FGlass	Launch
LA	02	Langley	80'	Steel	Ferry Boat
OB		Observer	27'	Wood	Launch
PA	01	Pathfinder	55'	Wood	Trawler
RE	05	Restless	36'	Wood	Launch
SJ	15	Sally Jean		Wood	Launch
TD	13	Three Daughters		Wood	Launch
VL	06	Virginia Lee	35'	Wood	Launch
	18	Capt John Smith New	42'	FGlass	Launch *

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\* Code 18 refers to Capt. John Smith with a new larger engine, and increased power.

APPENDIX B DESCRIPTION OF 30' SEMI-BALLOON TRAWL,  
SHOWING CHANGES WITH TIME

1955-1960 (Gear Code 82).

31' headrope, 37' footrope.  
Body and wings mesh 1" stretched, #9 thread cotton.  
Bag mesh 3/4" stretched, #9 or #12 thread cotton.  
Net hung on 7/16" Italian hemp net rope, legs at 8' with wire rope  
thimbels, 3/16", spliced at each end.  
Chain on footrope, 2/0 galvanized.  
Headrope with three 5" x 9" plastic floats, set 3' apart.  
Net tarred  
Door probably with dimensions and rigging as described for 1962-1963  
doors.  
Body and bag meshes were described by W.H. Massmann (1962).  
Bridle length unrecorded, but probably 30'

1961 (Gear Code 10).

Specifications are the same as above, except for the following which  
were described by the net maker S. J. Marinovich in 1963:  
Bag mesh 1-1/2", #15 thread cotton.  
Net legs at 6'.  
Headrope with 6-1/2" floats.  
Net copper treated.

1962-1963 (Gear Code 10).

Specifications are the same as for 1961, except for the following:  
Bag mesh 1" or 1-1/2", #18 thread cotton.  
Footrope wire rope, with chain hung loop style, 16 links to 12 inches.  
Headrope with ARK sponge floats.  
Nets treated with green copper naphthenate.  
Doors 48" x 22" made of 1-inch pine. 1-1/4" x 1/4" straps and braces,  
3/8" x 2-1/2" bottom shoe runner, 3/16" galvanized chain, 3/8"  
swivel.

1964-1972 (Gear Code 10).

Specifications are the same as for 1962-1963, except for the  
following:  
Nylon and cotton thread nets were in use in midsummer, and the poor  
condition suggests that nylon thread was introduced at least in  
1964.  
Bag mesh 1-1/4" mesh.



1973 (Gear Code 43).

Specifications are the same as for 1964-1972, except for the following:  
Tickler chain added.

1973-1980 (Gear Code 33).

Specifications are the same as for 1964-1972, except for the following:  
Liner with a 1/2" stretch mesh added.  
Net hung on 7/16" polyethylene dacron (poly Dac) rope.  
Headrope with six 3" x 2-1/2" ARK floats, 3' apart, centered 6' from the ends.  
Without tickler chain.

1979 (Gear Code 68).

Specifications are the same as for 1973-1980, except for the following:  
Doors 54 x 24" made of 1-inch pine, otherwise the same as the doors used in 1962-1963.  
Tickler chain added to footrope.

1980-1984 (Gear Code 70)

Specifications are the same as for 1979-1980, except bridle cable length was increased to 60'.  
With tickler chain.

1984 (Gear Code 80)

Specifications same as above, except without tickler chain.  
Used only when tickler chain broke.

1984 (Gear Code 81)

Same Gear 70 above, but with 90' bridle; used just once.

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Disclaimer

The above gear documentation includes the best information available; however, information at best is very meagre. Variations, especially as to the introduction and use of nylon instead of cotton were inadequately documented. Gear types 33 and 43 were used during the transition period from cotton to nylon.

APPENDIX C DESCRIPTION OF 16' SEMI-BALLOON TRAWL,  
SHOWING CHANGES WITH TIME

1971-1980 (Gear Code 35).

16' headrope, 20' footrope.

Body mesh 1-1/2" stretched, #9 thread cotton.

Bag mesh 1-1/4" stretched, #15 thread nylon with innerliner of 1/2"  
#208 nylon fine yarn netting.

Net hung on 3/8" poly-dac net, legs extend from net 3' with wire rope  
thimbels spliced at each end and shackles attached to fasten  
to doors.

1/8" galvanized chain on footrope, loop style.

ARK floats on headrope.

Net treated with green naphthenate net preservative.

Doors 24" in length and 12" in width, made of 1-inch mahogany lumber,  
straps and braces of 1 X 1/4" mild steel, bottom shoe runner of  
3/8" x 2" mild steel, doors bridled with 2/0 galvanized, with  
one 5/16" steel swivel at head of each bridle.

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Disclaimer

The above gear documentation includes the best information available; however, information at best is very meager. Variations, especially as to the introduction and use of nylon instead of cotton were inadequately documented. Gear types 33 and 43 were used during the transition period from cotton to nylon.

APPENDIX D FIXED POTOMAC RIVER STATIONS WITH THEIR  
LATITUDES AND LONGITUDES

SAMPLE SITE	LAT/LOMG	SAMPLE SITE	LAT/LONG
PO000	37577 76168	PO060	38233 77156
PO001	37583 76179	PO061	38245 77162
PO002	37576 76200	PO062	38254 77161
PO003	37597 76200	PO063	38264 77163
PO004	38000 76209	PO064	38274 77165
PO005	38006 76218	PO065	38283 77165
PO006	38013 76228	PO066	38295 77167
PO007	38018 76247	PO067	38306 77164
PO008	38024 76249	PO068	38314 77164
PO009	38030 76259	PO069	38323 77158
PO010	38036 76268	PO070	38330 77152
PO011	38041 76278	PO071	38336 77143
PO012	38044 76291	PO072	38351 77126
PO013	38050 76301	PO073	38352 77126
PO014	38057 76312	PO074	38359 77118
PO015	38062 76322	PO075	38366 77106
PO016	38068 76330	PO076	38376 77094
PO017	38086 76327	PO077	38369 77081
PO018	38085 76346	PO078	38388 77078
PO019	38093 76355	PO079	38387 77077
PO020*	38100 76365	PO080	38399 77050
PO045	38230 77000	PO081	38407 77076
PO046	38242 77007	PO082	38415 77064
PO047	38245 77025	PO083	38419 77055
PO048	38245 77031	PO084	38419 77043
PO049	38243 77043	PO085	38422 77031
PO050	38237 77050	PO086	38430 77021
PO051	38235 77067	PO087 **	
PO052	38233 77081	PO088	38449 77022
PO053	38225 77088	PO089	38459 77022
PO054	38225 77088	PO090	38469 77022
PO055	38215 77106	PO091	38479 77022
PO056	38211 77121	PO092	38497 77019
PO057	38214 77139	PO093	38499 77017
PO058	38218 77145	PO094	38509 77014
PO059	38226 77152		

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\* Potomac not sampled between mile 20 and mile 45.

\*\* Station not made

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APPENDIX E SPECIAL 1975 AND 1976 POTOMAC RIVER RANDOM STATIONS

SAMPLE SITE	<u>1975 Data</u>		<u>1976 Data</u>	
	LAT	LONG	LAT	LONG
P00003			37582	76172
P0001	37580	76179		
P00021	37587	76192		
P00012			37587	76179
P00023	37589	76196	37595	76190
P00033			38014	76190
P00042			38007	76208
P0005			38011	76213
P0006	38010	76230		
P00062			38010	76229
P00063			38032	76270
P00071	38018	76247		
P00072	38006	76257	38024	76239
P00091	38030	76266		
P00092			38037	76260
P0010	38033	76271		
P0011			38041	76280
P00111			38057	76270
P00112			38044	76285
P00122	38044	76291		
P0013	38050	76301		
P00131			38055	76310
P00141	38051	76325		
P00142	38060	76316		
P00143			38063	76318
P00151			38069	76321
P00152	38067	76326		
P00161	38071	76333		
P00163			38088	76333
P0017			38086	76327
P00181*	38088	76341	38090	76343
P00181*	38084	76355		
P0019			38098	76351
P00191	38236	77004		
P00452	38236	77004	38237	77001
P00463	38244	77016	38245	77014
P00472	38243	77025		
P00473			38245	77027
P00491	38240	77046		
P00493			38238	77051
P00502	38236	77061		
P00503			38236	77066

\* Stations have duplicate numbers.

SAMPLE SITE	<u>1975 Data</u>		<u>1976 Data</u>	
	LAT	LONG	LAT	LONG
P0052			38233	77078
P00521	38233	77081		
P00523			38228	77086
P00532	38225	77094		
P0054	38222	77099		
P00542			38217	77012
P00552	38215	77116		
P00553			38212	77117
P00563			38212	77130
P00571	38214	77139		
P00573			38216	77140
P00582	38223	77150		
P00583			38223	77149
P0059	38227	77153		
P00602	38254	77161		
P0061			38243	77161
P00612			38248	77161
P0062	38254	77161		
P00623	38261	77161		
P00632			38259	77163
P00633	38272	77163		
P00641			38276	77164
P0065			38284	77165
P0066	38301	77166		
P0063	38313	77163		
P00671			38306	77164
P0068	38313	77163		
P00682			38318	77162
P0069			38322	77158
P00691	38325	77155		
P00702	38334	77145	38332	77144
P00712	38355	77127	38351	77126
P00723			38351	77126
P00731	38387	77117		
P00733	38365	77098		
P00742			38363	77110
P0075			38364	77105
P00752	38365	77098		
P00763			38368	77083
P0077	38369	77081		
P0078			38380	77074
P00782	38386	77076		
P00783			38380	77074
P0079	38386	77076		

SAMPLE SITE	<u>1975 Data</u>		<u>1976 Data</u>	
	LAT	LONG	LAT	LONG
PO0801			38399	77080
PO0803	38404	77077		
PO0813	38412	77069		
PO0821			38414	77064
PO0823			38415	77057
PO0832	38418	77048		
PO0833	38418	77044		
PO0843			38421	77034
PO085			38422	77030
PO0853	38427	77023		
PO0862			38436	77020
PO0871	38441	77021		
PO088			38449	77023
PO0881	38452	77022		
PO0892	38464	77020	38463	77020
PO090	38467	77021	38468	77021
PO0902			38473	77017
PO0912	38484	77021		
PO0923	38497	77019	38496	77018
PO0941	38512	77015	38511	77013

APPENDIX F

LISTING OF POTOMAC RIVER RANDOM STATIONS WITH LATITUDES AND  
LONGITUDES BY COLOR STRATA

POTOMAC GREEN STRATUM (12'-19')

POTOMAC GREEN STRATUM (12'-19')

SAMPLE SITE	LAT	LONG	SAMPLE SITE	LAT	LONG
P00001G	375446	761507	P00035G	375906	762433
P00002G	375451	761530	P00036G	375922	762433
P00003G	375504	761548	P00037G	375922	762453
P00004G	375506	761606	P00038G	375936	762453
P00005G	375532	761705	P00039G	375936	762512
P00006G	375546	761719	P00040G	375936	762530
P00007G	375559	761748	P00041G	375939	762530
P00008G	375606	761806	P00042G	375940	762550
P00009G	375616	761826	P00043G	375951	762550
P00010G	375631	761902	P00044G	375953	762611
P00011G	375651	761920	P00045G	380008	762611
P00012G	375707	761937	P00046G	380009	762629
P00013G	375721	762000	P00047G	380022	762629
P00014G	375733	762004	P00048G	380011	762652
P00015G	375736	762020	P00049G	375952	762713
P00016G	375752	762021	P00050G	380008	762713
P00017G	375753	762038	P00051G	380020	762713
P00018G	375805	762038	P00052G	380110	762709
P00019G	375807	762059	P00053G	380110	762650
P00020G	375807	762118	P00054G	380108	762630
P00021G	375807	762138	P00055G	380120	762630
P00022G	375807	762157	P00056G	380122	762650
P00023G	375807	762214	P00057G	380138	762650
P00024G	375804	762235	P00058G	380122	762709
P00025G	375756	762235	P00059G	380138	762709
P00026G	375804	762255	P00060G	380154	762725
P00027G	375756	762255	P00061G	380138	762725
P00028G	375805	762315	P00062G	380122	762725
P00029G	375807	762333	P00063G	380122	762748
P00030G	375821	762352	P00064G	380145	762805
P00031G	375836	762415	P00065G	380122	762805
P00032G	375853	762415	P00066G	380141	762820
P00033G	375906	762415	P00067G	380125	762820
P00034G	375853	76243300			



SAMPLE SITE	LAT	LONG	SAMPLE SITE	LAT	LONG
P00068G	380138	762840	P00103G	380716	763524
P00069G	380125	762840	P00104G	380734	763524
P00070G	380136	762903	P00105G	380746	763524
P00071G	380137	762920	P00106G	380803	763524
P00072G	380141	762940	P00107G	380816	763524
P00073G	380144	763000	P00108G	380803	763542
P00074G	380152	762920	P00109G	380819	763542
P00075G	380207	762920	P00110G	380834	763542
P00076G	380209	762940	P00111G	380850	763542
P00077G	380210	763000	P00112G	380818	763603
P00078G	380223	762940	P00113G	380834	763603
P00079G	380220	763000	P00114G	380850	763251
P00080G	380237	763000	P00115G	380906	763215
P00081G	380424	762157	P00116G	380951	763309
P00082G	380414	762157	P00117G	380922	763839
P00083G	380325	762214	P00118G	380850	763858
P00084G	380340	762235	P00119G	380906	763858
P00085G	380410	762255	P00120G	380922	763858
P00086G	380426	762255	P00121G	380850	763918
P00087G	380456	762333	P00122G	380906	763918
P00088G	380528	762453	P00123G	380921	763918
P00089G	380514	762453	P00124G	381357	764153
P00090G	380528	762709	P00125G	381345	764153
P00091G	380543	762725	P00126G	381345	764212
P00092G	380632	763445	P00127G	382321	770050
P00093G	380644	763445	P00128G	382337	770107
P00094G	380700	763445	P00129G	382353	770122
P00095G	380716	763445	P00130G	382409	770146
P00096G	380632	763505	P00131G	382323	770403
P00097G	380644	763505	P00132G	382312	770517
P00098G	380700	763505	P00133G	382310	770534
P00099G	380716	763505	P00134G	382253	770554
P00100G	380734	763505	P00135G	382253	770613
P00101G	380746	763505	P00136G	383353	770631
P00102G	380700	763524	P00137G	382246	770632

SAMPLE SITE	LAT	LONG	SAMPLE SITE	LAT	LONG
PO0138G	382241	770653	PO0173G	382309	771614
PO0139G	382237	770707	PO0174G	382309	771634
PO0140G	382354	770709	PO0175G	382309	771653
PO0141G	382027	771327	PO0176G	382309	771711
PO0142G	382027	771345	PO0177G	382309	771728
PO0143G	382027	771404	PO0178G	382324	771614
PO0144G	382039	771406	PO0179G	382324	771634
PO0145G	382042	771424	PO0180G	382324	771653
PO0146G	382054	771426	PO0181G	382324	771711
PO0147G	382044	771439	PO0182G	382324	771728
PO0148G	382055	771442	PO0183G	382339	771634
PO0149G	382108	771442	PO0184G	382339	771653
PO0150G	382108	771500	PO0185G	382339	771711
PO0151G	382122	771500	PO0186G	382339	771728
PO0152G	382122	771520	PO0187G	382339	771747
PO0153G	382142	771522	PO0188G	382354	771634
PO0154G	382140	771539	PO0189G	382354	771653
PO0155G	382140	771556	PO0190G	382354	771711
PO0156G	382155	771557	PO0191G	382354	771728
PO0157G	382210	771614	PO0192G	382354	771747
PO0158G	382223	771614	PO0193G	382408	771634
PO0159G	382223	771634	PO0194G	382408	771653
PO0160G	382137	771344	PO0195G	382408	771711
PO0161G	382156	771405	PO0196G	382408	771728
PO0162G	382210	771424	PO0197G	382408	771747
PO0163G	382154	771420	PO0198G	382425	771634
PO0164G	382240	771614	PO0199G	382425	771653
PO0165G	382241	771644	PO0200G	382425	771711
PO0166G	382241	771653	PO0201G	382425	771728
PO0167G	382241	771711	PO0202G	382425	771747
PO0168G	382254	771614	PO0203G	382437	771650
PO0169G	382254	771634	PO0204G	382437	771711
PO0170G	382254	771653	PO0205G	382437	771728
PO0171G	382254	771711	PO0206G	382437	771747
PO0172G	382254	771728	PO0207G	382453	771650

SAMPLE SITE	LAT	LONG	SAMPLE SITE	LAT	LONG
PO0208G	382453	771711	PO0240G	382647	771711
PO0209G	382453	771728	PO0241G	382647	771728
PO0210G	382453	771747	PO0242G	382647	771747
PO0211G	382506	771650	PO0243G	382647	771804
PO0212G	382506	771711	PO0244G	382704	771650
PO0213G	382506	771728	PO0245G	382704	771711
PO0214G	382506	771747	PO0246G	382704	771728
PO0215G	382523	771650	PO0247G	382704	771747
PO0216G	382523	771711	PO0248G	382704	771804
PO0217G	382523	771728	PO0249G	382720	771650
PO0218G	382523	771747	PO0250G	382720	771711
PO0219G	382537	771650	PO0251G	382720	771728
PO0220G	382537	771711	PO0252G	382720	771747
PO0221G	382537	771728	PO0253G	382720	771804
PO0222G	382537	771747	PO0254G	382734	771650
PO0223G	382550	771650	PO0255G	382734	771711
PO0224G	382550	771711	PO0256G	382734	771728
PO0225G	382550	771728	PO0257G	382734	771747
PO0226G	382550	771747	PO0258G	382734	771804
PO0227G	382606	771650	PO0259G	382747	771650
PO0228G	382606	771711	PO0260G	382747	771711
PO0229G	382606	771728	PO0261G	382747	771728
PO0230G	382606	771747	PO0262G	382747	771747
PO0231G	382621	771650	PO0263G	382747	771804
PO0232G	382621	771711	PO0264G	382805	771711
PO0233G	382621	771728	PO0265G	382605	771728
PO0234G	382621	771747	PO0266G	382805	771747
PO0235G	382634	771650	PO0267G	382805	771804
PO0236G	382634	771711	PO0268G	382820	771711
PO0237G	382634	771728	PO0269G	382820	771728
PO0238G	382634	771747	PO0270G	382820	771747
PO0239G	382647	771650	PO0271G	382820	771804

## POTOMAC BLUE STRATUM (20'-29')

## POTOMAC BLUE STRATUM (20'-29')

SAMPLE SITE	LAT	LONG	SAMPLE SITE	LAT	LONG
PO0301B	375547	761549	PO0336B	375719	761904
PO0302B	375533	761549	PO0337B	375705	761904
PO0303B	375519	761551	PO0338B	375651	761904
PO0304B	375603	761609	PO0339B	375731	761923
PO0305B	375547	761609	PO0340B	375719	761923
PO0306B	375535	761609	PO0341B	375705	761923
PO0307B	375633	761629	PO0342B	375733	761942
PO0308B	375619	761629	PO0343B	375721	761939
PO0309B	375603	761629	PO0344B	380138	761942
PO0310B	375547	761629	PO0345B	380209	762000
PO0311B	375633	761647	PO0346B	380225	762000
PO0312B	375619	761647	PO0347B	380238	762020
PO0313B	375603	761647	PO0348B	380225	762020
PO0314B	375547	761647	PO0349B	380340	762255
PO0315B	375649	761705	PO0350B	380355	762315
PO0316B	375633	761705	PO0351B	380345	762311
PO0317B	375619	761705	PO0352B	380426	762633
PO0318B	375603	761705	PO0353B	380410	762633
PO0319B	375649	761725	PO0354B	380400	762633
PO0320B	375633	761725	PO0355B	380456	762415
PO0321B	375619	761725	PO0356B	380442	762415
PO0322B	375649	761747	PO0357B	380442	762352
PO0323B	375633	761747	PO0358B	380426	762352
PO0324B	375619	761747	PO0359B	380512	762433
PO0325B	375705	761806	PO0360B	380528	762433
PO0326B	375649	761806	PO0361B	380456	762453
PO0327B	375633	761806	PO0362B	380446	762453
PO0328B	375619	761806	PO0363B	380528	762512
PO0329B	375705	761825	PO0364B	380515	762512
PO0330B	375649	761825	PO0365B	380528	762530
PO0331B	375633	761825	PO0366B	380545	762550
PO0332B	375717	761845	PO0367B	380528	762550
PO0333B	375705	761845	PO0368B	380526	762050
PO0334B	375649	761845			
PO0335B	375636	761845			

SAMPLE SITE	LAT	LONG	SAMPLE SITE	LAT	LONG
PO0369B	380512	762650	PO0404B	375853	762352
PO0370B	380512	762725	PO0405B	375836	762352
PO0371B	380528	762748	PO0406B	375936	762415
PO0372B	380743	763039	PO0407B	375951	762433
PO0373B	380733	763039	PO0408B	380022	762453
PO0374B	380759	763056	PO0409B	380008	762453
PO0375B	380759	763115	PO0410B	375951	762453
PO0376B	375836	762059	PO0411B	380036	762453
PO0377B	375821	762059	PO0412B	380022	762453
PO0378B	375853	762118	PO0413B	380008	762453
PO0379B	375836	762118	PO0414B	375955	762453
PO0380B	375853	762138	PO0415B	380108	762530
PO0381B	375836	762138	PO0416B	380054	762530
PO0382B	375853	762157	PO0417B	380037	762530
PO0383B	375836	762157	PO0418B	380022	762530
PO0384B	375824	762157	PO0419B	380008	762530
PO0385B	375853	762214	PO0420B	380108	762550
PO0386B	375836	762214	PO0421B	380054	762550
PO0387B	375823	762214	PO0422B	380037	762550
PO0388B	375906	762235	PO0423B	380022	762550
PO0389B	375853	762235	PO0424B	380010	762550
PO0390B	375836	762235	PO0425B	380108	762550
PO0391B	375821	762235	PO0426B	380054	762550
PO0392B	375853	762255	PO0427B	380037	762611
PO0393B	375836	762255	PO0428B	380040	762611
PO0394B	375821	762255	PO0429B	380024	762611
PO0395B	375853	762315	PO0430B	380152	762611
PO0396B	375836	762315	PO0431B	380138	762611
PO0397B	375821	762315	PO0432B	380152	762630
PO0398B	375906	762333	PO0433B	380143	762630
PO0399B	375853	762333	PO0434B	380209	762650
PO0400B	375836	762333	PO0435B	380152	762650
PO0401B	375823	762333	PO0436B	380209	762709
PO0402B	375922	762352	PO0437B	380209	762725
PO0403B	375906	762352	PO0438B	380209	762748

SAMPLE SITE	LAT	LONG	SAMPLE SITE	LAT	LONG
P00439B	380152	762748	P00474B	380355	763115
P00440B	380209	762805	P00475B	380340	763115
P00441B	380152	762805	P00476B	380528	763232
P00442B	380225	762820	P00477B	380512	763232
P00443B	380209	762820	P00478B	380545	763255
P00444B	380152	762820	P00479B	380528	763250
P00445B	380225	762840	P00480B	380600	763315
P00446B	380209	762840	P00481B	380545	763315
P00447B	380152	762840	P00482B	380528	763315
P00448B	380240	762903	P00483B	380627	763330
P00449B	380225	762903	P00484B	380615	763330
P00450B	380209	762903	P00485B	380600	763330
P00451B	380152	762903	P00486B	380545	763330
P00452B	380257	762920	P00487B	380645	763340
P00453B	380240	762920	P00488B	380630	763340
P00454B	380225	762920	P00489B	380615	763340
P00455B	380310	762920	P00490B	380600	763340
P00456B	380256	762940	P00491B	380732	763413
P00457B	380240	762940	P00492B	380716	763413
P00458B	380325	763000	P00493B	380702	763413
P00459B	380310	763000	P00494B	380645	763413
P00460B	380256	763000	P00495B	380630	763413
P00461B	380340	763017	P00496B	380615	763413
P00462B	380325	763017	P00497B	380803	763430
P00463B	380310	763017	P00498B	380747	763430
P00464B	380355	763039	P00499B	380732	763430
P00465B	380340	763039	P00500B	380716	763430
P00466B	380325	763039	P00501B	380702	763430
P00467B	380313	763039	P00502B	380645	763430
P00468B	380410	763056	P00503B	380816	763445
P00469B	380355	763056	P00504B	380803	763445
P00470B	380340	763056	P00505B	380834	763505
P00471B	380325	763056	P00506B	380816	763505
P00472B	380424	763115	P00507B	380903	763525
P00473B	380410	763115	P00508B	380936	763623

SAMPLE SITE	LAT	LONG	SAMPLE SITE	LAT	LONG
PO0509B	380936	763639	PO0544B	381158	763639
PO0510B	380952	763658	PO0545B	381211	763639
PO0511B	380936	763658	PO0546B	381226	763639
PO0512B	380850	763313	PO0547B	381241	763639
PO0513B	380904	763311	PO0548B	381141	763658
PO0514B	380934	763330	PO0549B	381158	763658
PO0515B	381006	763330	PO0550B	381211	763658
PO0516B	381024	763330	PO0551B	381226	763658
PO0517B	381040	763330	PO0552B	381241	763658
PO0518B	381054	763330	PO0553B	381158	763713
PO0519B	381024	763346	PO0554B	381211	763713
PO0520B	381040	763346	PO0555B	381226	763713
PO0521B	381054	763346	PO0556B	381241	763713
PO0522B	381110	763346	PO0557B	381211	763739
PO0523B	381024	763406	PO0558B	381226	763739
PO0524B	381040	763406	PO0559B	381241	763739
PO0525B	381054	763406	PO0560B	381257	763739
PO0526B	381110	763406	PO0561B	381211	763800
PO0527B	381040	763425	PO0562B	381226	763800
PO0528B	381054	763425	PO0563B	381241	763800
PO0529B	381127	763525	PO0564B	381257	763800
PO0530B	381054	763446	PO0565B	381211	763820
PO0531B	381110	763446	PO0566B	381226	763820
PO0532B	381155	763446	PO0567B	381241	763820
PO0533B	381110	763502	PO0568B	381257	763820
PO0534B	381158	763502	PO0569B	380936	763622
PO0535B	381113	763524	PO0570B	380952	763622
PO0536B	381127	763542	PO0571B	380936	763739
PO0537B	381127	763603	PO0572B	380952	763739
PO0538B	381141	763603	PO0573B	381006	763739
PO0539B	381141	763623	PO0574B	381024	763739
PO0540B	381158	763623	PO0575B	381040	763739
PO0541B	381211	763623	PO0576B	381054	763739
PO0542B	381226	763623	PO0577B	380936	763800
PO0543B	381141	763639	PO0578B	380952	763800

SAMPLE SITE	LAT	LONG	SAMPLE SITE	LAT	LONG
PO0579B	381006	763800	PO0614B	381158	763858
PO0580B	381024	763800	PO0615B	381211	763858
PO0581B	381040	763800	PO0616B	381226	763858
PO0582B	381054	763800	PO0617B	381241	763858
PO0583B	381110	763800	PO0618B	381258	763858
PO0584B	381127	763800	PO0619B	380952	763918
PO0585B	380952	763820	PO0620B	381006	763918
PO0586B	381006	763820	PO0621B	381024	763918
PO0587B	381024	763820	PO0622B	381040	763918
PO0588B	381040	763820	PO0623B	381054	763918
PO0589B	381054	763820	PO0624B	381110	763918
PO0590B	381110	763820	PO0625B	381127	763918
PO0591B	381127	763820	PO0626B	381141	763918
PO0592B	381141	763820	PO0627B	381158	763818
PO0593B	381158	763820	PO0628B	381211	763918
PO0594B	380952	763839	PO0629B	381226	763918
PO0595B	381006	763839	PO0630B	381241	763918
PO0596B	381024	763839	PO0631B	381258	763818
PO0597B	381040	763839	PO0632B	380936	763935
PO0598B	381054	763839	PO0633B	380952	763935
PO0599B	381110	763839	PO0634B	381024	763935
PO0600B	381127	763839	PO0635B	381040	763935
PO0601B	381141	763839	PO0636B	381054	763935
PO0602B	381158	763839	PO0637B	381110	763935
PO0603B	381211	763839	PO0638B	381127	763935
PO0604B	381226	763839	PO0639B	381141	763935
PO0605B	381241	763839	PO0640B	381158	763935
PO0606B	380952	763858	PO0641B	381211	763935
PO0607B	381006	763858	PO0642B	381226	763935
PO0608B	381024	763958	PO0643B	381241	763935
PO0609B	381040	763858	PO0644B	381258	763935
PO0610B	381054	763858	PO0645B	380952	763954
PO0611B	381110	763858	PO0646B	381006	763954
PO0612B	381127	763858	PO0647B	381024	763954
PO0613B	381141	763858	PO0648B	381040	763954



SAMPLE SITE	LAT	LONG	SAMPLE SITE	LAT	LONG
PO0649B	381054	763954	PO0684B	381241	764034
PO0650B	381110	763954	PO0685B	381258	764034
PO0651B	381127	763954	PO0686B	381312	764034
PO0652B	381141	763954	PO0687B	381006	764052
PO0653B	381158	763954	PO0688B	381024	764052
PO0654B	381211	763954	PO0689B	381040	764052
PO0655B	381226	763954	PO0690B	381054	764052
PO0656B	381241	763954	PO0691B	381110	764052
PO0657B	381258	763954	PO0692B	381127	764052
PO0658B	381312	763954	PO0693B	381141	764052
PO0659B	380952	764014	PO0694B	381158	764052
PO0660B	381006	764014	PO0695B	381211	764052
PO0661B	381024	764014	PO0696B	381226	764052
PO0662B	381040	764014	PO0697B	381241	764052
PO0663B	381054	764014	PO0698B	381258	764052
PO0664B	381110	764014	PO0699B	381312	764052
PO0665B	381127	764014	PO0700B	381006	764112
PO0666B	381141	764014	PO0701B	381024	764112
PO0667B	381158	764014	PO0702B	381040	764112
PO0668B	381211	764014	PO0703B	381054	764112
PO0669B	381226	764014	PO0704B	381110	764112
PO0670B	381241	764014	PO0705B	381127	764112
PO0671B	381258	764014	PO0706B	381141	764112
PO0672B	381312	764014	PO0707B	381158	764112
PO0673B	380952	764034	PO0708B	381211	764112
PO0674B	381006	764034	PO0709B	381226	764112
PO0675B	381024	764034	PO0710B	381241	764112
PO0676B	381040	764034	PO0711B	381258	764112
PO0677B	381054	764034	PO0712B	381312	764112
PO0678B	381110	764034	PO0713B	381006	764133
PO0679B	381127	764034	PO0714B	381024	764133
PO0680B	381141	764034	PO0715B	381040	764133
PO0681B	381158	764034	PO0716B	381054	764133
PO0682B	381211	764034	PO0717B	381110	764133
PO0683B	381226	764034	PO0718B	381127	764133

SAMPLE SITE	LAT	LONG	SAMPLE SITE	LAT	LONG
PO0719B	381141	764133	PO0754B	382343	770400
PO0720B	381226	764133	PO0755B	382353	770400
PO0721B	381241	764133	PO0756B	382322	770416
PO0722B	381258	764133	PO0757B	382323	770535
PO0723B	381312	764133	PO0758B	382324	770555
PO0724B	381006	764153	PO0759B	382343	770555
PO0725B	381024	764153	PO0760B	382354	770553
PO0726B	381040	764153	PO0761B	382327	770612
PO0727B	381054	764153	PO0762B	382340	770612
PO0728B	381110	764153	PO0763B	382354	770612
PO0729B	381127	764153	PO0764B	382313	770628
PO0730B	381141	764153	PO0765B	382326	770630
PO0731B	381241	764153	PO0766B	382340	770630
PO0732B	381258	764153	PO0767B	382354	770630
PO0733B	381312	764153	PO0768B	382326	770645
PO0734B	381006	764212	PO0769B	382340	770645
PO0735B	381024	764212	PO0770B	382310	770707
PO0736B	381040	764212	PO0771B	382326	770707
PO0737B	381055	764212	PO0772B	382340	770707
PO0738B	381010	764212	PO0773B	382310	770728
PO0739B	381117	764212	PO0774B	382326	770728
PO0740B	381141	764212	PO0775B	382340	770728
PO0741B	381258	764212	PO0776B	382223	770747
PO0742B	381312	764212	PO0777B	382237	770747
PO0743B	382324	770030	PO0778B	382253	770747
PO0744B	382343	770047	PO0779B	382313	770747
PO0745B	382351	770050	PO0780B	382253	770807
PO0746B	382357	770103	PO0781B	382237	770823
PO0747B	382409	770124	PO0782B	382253	770823
PO0748B	382424	770146	PO0783B	382156	770843
PO0749B	382422	770205	PO0784B	382237	770843
PO0750B	382407	770308	PO0785B	382253	770843
PO0751B	382357	770326	PO0786B	382140	770901
PO0752B	382406	770324	PO0787B	382156	770901
PO0753B	382355	770341	PO0788B	382213	770901

SAMPLE SITE	LAT	LONG	SAMPLE SITE	LAT	LONG
PO0789B	382223	770901	PO0815B	382223	771500
PO0790B	382240	770901	PO0816B	382240	771500
PO0791B	382125	770920	PO0817B	382240	771520
PO0792B	382143	770920	PO0818B	382254	771520
PO0793B	382155	770920	PO0819B	382309	771539
PO0794B	382213	770920	PO0820B	382324	771539
PO0795B	382223	770920	PO0821B	382339	771557
PO0796B	382108	770940	PO0822B	382354	771557
PO0797B	382156	770940	PO0823B	382408	771557
PO0798B	382210	770940	PO0824B	382425	771614
PO0799B	382055	771036	PO0825B	382437	771614
PO0800B	382055	771055	PO0826B	382453	771614
PO0801B	382042	771113	PO0827B	382506	771614
PO0802B	382042	771132	PO0828B	382523	771614
PO0803B	382042	771152	PO0829B	382513	771614
PO0804B	382042	771211	PO0830B	382550	771614
PO0805B	382042	771248	PO0831B	382606	771614
PO0806B	382055	771247	PO0832B	382621	771614
PO0807B	382042	771308	PO0833B	382634	771614
PO0808B	382042	771325	PO0834B	382647	771614
PO0809B	382108	771403	PO0835B	382704	771614
PO0810B	382122	771403	PO0836B	382720	771634
PO0811B	382137	771420	PO0837B	382730	771634
PO0812B	382154	771520	PO0838B	382730	771634
PO0813B	382210	771539	PO0839B	382805	771634
PO0814B	382210	771500	PO0840B	382820	771634

## POTOMAC WHITE STRATUM (30'-49')

## POTOMAC WHITE STRATUM (30'-49')

SAMPLE SITE	LAT	LONG	SAMPLE SITE	LAT	LONG
P00891W	375705	761647	P00926W	375936	761845
P00892W	375719	761705	P00927W	375951	761845
P00893W	375734	761705	P00928W	380008	761845
P00894W	375719	761725	P00929W	375751	761904
P00895W	375734	761725	P00930W	375806	761904
P00896W	375751	761725	P00931W	375821	761904
P00897W	375806	761725	P00932W	375836	761904
P00898W	375719	761747	P00933W	375853	761904
P00899W	375734	761747	P00934W	375906	761904
P00900W	375751	761747	P00935W	375922	761904
P00901W	375806	761747	P00936W	375936	761904
P00902W	375821	761747	P00937W	375951	761904
P00903W	375836	761747	P00938W	380008	761904
P00904W	375734	761806	P00939W	380022	761904
P00905W	375751	761806	P00940W	375751	761923
P00906W	375806	761806	P00941W	375806	761923
P00907W	375821	761806	P00942W	375821	761923
P00908W	375836	761806	P00943W	375836	761923
P00909W	375853	761806	P00944W	375853	761923
P00910W	375906	761806	P00945W	375906	761923
P00911W	375751	761825	P00946W	375922	761923
P00912W	375806	761825	P00947W	375936	761923
P00913W	375821	761825	P00948W	375951	761923
P00914W	375836	761825	P00949W	380008	761923
P00915W	375853	761825	P00950W	380022	761923
P00916W	375906	761825	P00951W	380037	761923
P00917W	375922	761825	P00952W	375751	761942
P00918W	375936	761825	P00953W	375806	761942
P00919W	375751	761845	P00954W	375821	761942
P00920W	375806	761845	P00955W	375836	761942
P00921W	375821	761845	P00956W	375853	761942
P00922W	375836	761845	P00957W	375906	761942
P00923W	375853	761845	P00958W	375922	761942
P00924W	375906	7618450			
P00925W	375922	7618450			

SAMPLE SITE	LAT	LONG	SAMPLE SITE	LAT	LONG
PO0959W	375936	761942	PO0994W	375951	762059
PO0960W	375951	761942	PO0995W	380008	762059
PO0961W	380008	761942	PO0996W	380022	762059
PO0962W	380022	761942	PO0997W	375922	762118
PO0963W	380036	761942	PO0998W	375936	762118
PO0964W	375806	762000	PO0999W	375951	762118
PO0965W	375821	762000	PO1000W	380008	762118
PO0966W	375836	762000	PO1001W	380022	762118
PO0967W	375853	762000	PO1002W	380037	762118
PO0968W	375906	762000	PO1003W	375922	762138
PO0969W	375922	762000	PO1004W	375936	762138
PO0970W	375936	762000	PO1005W	375951	762138
PO0971W	375951	762000	PO1006W	380008	762138
PO0972W	380008	762000	PO1007W	380022	762138
PO0973W	380034	762000	PO1008W	380037	762138
PO0974W	375821	762020	PO1009W	375922	762157
PO0975W	375836	762020	PO1010W	375936	762157
PO0976W	375853	762020	PO1011W	375951	762157
PO0977W	375906	762020	PO1012W	380008	762157
PO0978W	375922	762020	PO1013W	380022	762157
PO0979W	375936	762020	PO1014W	380037	762157
PO0980W	375951	762020	PO1015W	380054	762157
PO0981W	380008	762020	PO1016W	375922	762214
PO0982W	380022	762020	PO1017W	375936	762214
PO0983W	375836	762038	PO1018W	375951	762214
PO0984W	375853	762038	PO1019W	380008	762214
PO0985W	375906	762038	PO1020W	380022	762214
PO0986W	375922	762038	PO1021W	380037	762214
PO0987W	375936	762038	PO1022W	380054	762214
PO0988W	375951	762038	PO1023W	375922	762235
PO0989W	380008	762038	PO1024W	375936	762235
PO0990W	380022	762038	PO1025W	375951	762235
PO0991W	375906	762059	PO1026W	380008	762235
PO0992W	375902	762059	PO1027W	380022	762235
PO0993W	375936	762059	PO1028W	380037	762235

SAMPLE SITE	LAT	LONG	SAMPLE SITE	LAT	LONG
PO1029W	380054	762235	PO1064W	380122	762352
PO1030W	380108	762235	PO1065W	380138	762352
PO1031W	375922	762255	PO1066W	380037	762415
PO1032W	375936	762255	PO1067W	380054	762415
PO1033W	375951	762255	PO1068W	380108	762415
PO1034W	380008	762255	PO1069W	380122	762415
PO1035W	380022	762255	PO1070W	380122	762415
PO1036W	380037	762255	PO1071W	380152	762415
PO1037W	380054	762255	PO1072W	380037	762433
PO1038W	380108	762255	PO1073W	380054	762433
PO1039W	375922	762315	PO1074W	380108	762433
PO1040W	375936	762315	PO1075W	380122	762433
PO1041W	375951	762315	PO1076W	380238	762433
PO1042W	380008	762315	PO1077W	380152	762433
PO1043W	380022	762315	PO1078W	380209	762433
PO1044W	380037	762315	PO1079W	380054	762453
PO1045W	380054	762315	PO1080W	380108	762453
PO1046W	380108	762315	PO1081W	380122	762453
PO1047W	380122	762315	PO1082W	380138	762453
PO1048W	375936	762333	PO1083W	380152	762453
PO1049W	375951	762333	PO1084W	380209	762453
PO1050W	380008	762333	PO1085W	380225	762453
PO1051W	380022	762333	PO1086W	380108	762512
PO1052W	380037	762333	PO1087W	380122	762512
PO1053W	380054	762333	PO1088W	380138	762512
PO1054W	380108	762333	PO1089W	380152	762512
PO1055W	380122	762333	PO1090W	380209	762512
PO1056W	380138	762333	PO1091W	380225	762512
PO1057W	375936	762352	PO1092W	380240	762512
PO1058W	375951	762352	PO1093W	380122	762530
PO1059W	380008	762352	PO1094W	380138	762530
PO1060W	380022	762352	PO1095W	380152	762530
PO1061W	380037	762352	PO1096W	380209	762530
PO1062W	380054	762352	PO1097W	380225	762530
PO1063W	380108	762352			

SAMPLE SITE	LAT	LONG	SAMPLE SITE	LAT	LONG
PO1098W	380240	762530	PO1134W	380325	762748
PO1099W	380256	762530	PO1135W	380340	762748
PO1100W	380152	762550	PO1136W	380240	762805
PO1101W	380209	762550	PO1137W	380256	762805
PO1102W	380225	762550	PO1138W	380310	762805
PO1103W	380240	762550	PO1139W	380325	762805
PO1104W	380256	762550	PO1140W	380340	762805
PO1105W	380211	762611	PO1141W	380256	762820
PO1106W	380225	762611	PO1142W	380310	762820
PO1107W	380240	762611	PO1143W	380325	762820
PO1108W	380256	762611	PO1144W	380340	762820
PO1109W	380310	762611	PO1145W	380256	762840
PO1110W	380225	762630	PO1146W	380310	762840
PO1111W	380240	762630	PO1147W	380325	762840
PO1112W	380256	762630	PO1148W	380340	762840
PO1113W	380310	762630	PO1149W	380310	762903
PO1114W	380225	762650	PO1150W	380325	762903
PO1115W	380240	762650	PO1151W	380340	762903
PO1116W	380256	762650	PO1152W	380325	762920
PO1117W	380310	762650	PO1153W	380340	762920
PO1118W	380325	762550	PO1154W	380340	762940
PO1119W	380225	762709	PO1155W	380355	762940
PO1120W	380240	762709	PO1156W	380355	763000
PO1121W	380256	762709	PO1157W	380408	763000
PO1122W	380310	762709	PO1158W	380303	763017
PO1123W	380325	762709	PO1159W	380410	763017
PO1124W	380227	762725	PO1160W	380426	763039
PO1125W	380240	762725	PO1161W	380442	763039
PO1126W	380256	762725	PO1162W	380442	763056
PO1127W	380310	762725	PO1163W	380442	763115
PO1128W	380325	762725	PO1164W	380442	763130
PO1129W	380340	762725	PO1165W	380456	763050
PO1130W	380227	762748	PO1166W	380456	763115
PO1131W	380240	762748	PO1167W	380456	763130
PO1132W	380256	762748	PO1168W	380512	763115
PO1133W	380310	762748			

SAMPLE SITE	LAT	LONG	SAMPLE SITE	LAT	LONG
PO1169W	380512	763130	PO1204W	380225	762038
PO1170W	380512	763150	PO1205W	380152	762059
PO1171W	380528	763130	PO1206W	380209	762059
PO1172W	380528	763150	PO1207W	380225	762059
PO1173W	380528	763216	PO1208W	380240	762059
PO1174W	380545	763150	PO1209W	380153	762118
PO1175W	380545	763216	PO1210W	380209	762118
PO1176W	380545	763232	PO1211W	380225	762118
PO1177W	380600	763216	PO1212W	380240	762118
PO1178W	380600	763232	PO1213W	380209	762138
PO1179W	380615	763216	PO1214W	380225	762138
PO1180W	380615	763232	PO1215W	380240	762138
PO1181W	380615	763255	PO1216W	380256	762138
PO1182W	380630	763232	PO1217W	380225	762157
PO1183W	380630	763255	PO1218W	380240	762157
PO1184W	380630	763314	PO1219W	380256	762157
PO1185W	380645	763255	PO1220W	380235	762214
PO1186W	380645	763314	PO1221W	380240	762214
PO1187W	380645	763330	PO1222W	380256	762214
PO1188W	380702	763314	PO1223W	380240	762235
PO1189W	380702	763330	PO1224W	380256	762235
PO1190W	380716	763314	PO1225W	380310	762235
PO1191W	380716	763330	PO1226W	380240	762255
PO1192W	380716	763340	PO1227W	380256	762255
PO1193W	380732	763330	PO1228W	380310	762255
PO1194W	380732	763340	PO1229W	380324	762255
PO1195W	380747	763340	PO1230W	380310	762315
PO1196W	380803	763413	PO1231W	380325	762315
PO1197W	380138	762000	PO1232W	380310	762333
PO1198W	380238	762020	PO1233W	380325	762333
PO1199W	380152	762020	PO1234W	380340	762333
PO1200W	380209	762020	PO1235W	380325	762352
PO1201W	380238	762038	PO1236W	380340	762352
PO1202W	380152	762038	PO1237W	380355	762352
PO1203W	380209	762038	PO1238W	380330	762415



SAMPLE SITE	LAT	LONG	SAMPLE SITE	LAT	LONG
PO1239W	380340	762415	PO1274W	380528	762820
PO1240W	380355	762415	PO1275W	380543	762820
PO1241W	380410	762415	PO1276W	380515	762840
PO1242W	380340	762433	PO1277W	380528	762840
PO1243W	380355	762433	PO1278W	380545	762840
PO1244W	380410	762433	PO1279W	380456	762903
PO1245W	380426	762433	PO1280W	380512	762903
PO1246W	380355	762453	PO1281W	380528	762903
PO1247W	380410	762433	PO1282W	380545	762903
PO1248W	380426	762433	PO1283W	380600	762903
PO1249W	380410	762512	PO1284W	380512	762920
PO1250W	380426	762512	PO1285W	380528	762920
PO1251W	380442	762512	PO1286W	380545	762920
PO1252W	380426	762530	PO1287W	380600	762920
PO1253W	380442	762530	PO1288W	380615	762920
PO1254W	380456	762530	PO1289W	380528	762940
PO1255W	380426	762550	PO1290W	380545	762940
PO1256W	380442	762550	PO1291W	380600	762940
PO1257W	380456	762550	PO1292W	380615	762940
PO1258W	380512	762550	PO1293W	380630	762940
PO1259W	380426	762611	PO1294W	380545	763000
PO1260W	380442	762611	PO1295W	380600	763000
PO1261W	380456	762611	PO1296W	380615	763000
PO1262W	380512	762611	PO1297W	380630	763000
PO1263W	380426	762630	PO1298W	380600	763017
PO1264W	380442	762630	PO1299W	380615	763017
PO1265W	380456	762630	PO1300W	380630	763017
PO1266W	380512	762630	PO1301W	380645	763017
PO1267W	380442	762630	PO1302W	380630	763039
PO1268W	380442	762709	PO1303W	380645	763039
PO1269W	380442	762725	PO1304W	380702	763039
PO1270W	380456	762748	PO1305W	380716	763039
PO1271W	380512	762805	PO1306W	380630	763056
PO1272W	380456	762820	PO1307W	380645	763056
PO1273W	380512	762820	PO1308W	380702	763056

SAMPLE SITE	LAT	LONG	SAMPLE SITE	LAT	LONG
PO1309W	380716	763056	PO1344W	381040	763658
PO1310W	380702	763115	PO1345W	381054	763658
PO1311W	380732	763130	PO1346W	381110	763658
PO1312W	380747	763130	PO1347W	381125	763658
PO1313W	380732	763115	PO1348W	381050	763718
PO1314W	380934	763345	PO1349W	381110	763718
PO1315W	380952	763407	PO1350W	381128	763718
PO1316W	381010	763407	PO1351W	381128	763741
PO1317W	380747	763432	PO1352W	381141	763741
PO1318W	381024	763446	PO1353W	381211	764151
PO1319W	381040	763504	PO1354W	381211	764210
PO1320W	381024	763524	PO1355W	382325	770011
PO1321W	381040	763524	PO1356W	382338	770027
PO1322W	381054	763524	PO1357W	382407	770108
PO1323W	380935	763542	PO1358W	382418	770128
PO1324W	381009	763542	PO1359W	382426	770226
PO1325W	381024	763542	PO1360W	382424	770245
PO1326W	381040	763542	PO1361W	382425	770304
PO1327W	381054	763542	PO1362W	382435	770323
PO1328W	380950	763603	PO1363W	382423	770323
PO1329W	381009	763603	PO1364W	382423	770341
PO1330W	381024	763603	PO1365W	382409	770343
PO1331W	381040	763603	PO1366W	382405	770400
PO1332W	381050	763623	PO1367W	382405	770417
PO1333W	381024	763623	PO1368W	382356	770419
PO1334W	381054	763603	PO1369W	382404	770436
PO1335W	381109	763603	PO1370W	382355	770438
PO1336W	381040	763623	PO1371W	382355	770456
PO1337W	381054	763623	PO1372W	382343	770458
PO1338W	381110	763623	PO1373W	382353	770513
PO1339W	381024	763639	PO1374W	382337	770516
PO1340W	381040	763639	PO1375W	382340	770534
PO1341W	381054	763639	PO1376W	382321	770807
PO1342W	381110	763639	PO1377W	382226	770809
PO1343W	381024	763658	PO1378W	382213	770824

SAMPLE SITE	LAT	LONG	SAMPLE SITE	LAT	LONG
P01379W	382140	771018	P01386W	382111	771150
P01380W	382130	771022	P01387W	382107	771210
P01381W	382126	771037	P01388W	382010	771211
P01382W	382120	771054	P01389W	382057	771230
P01383W	382110	771058	P01390W	382106	771249
P01384W	382108	771113	P01391W	382053	771327
P01385W	382108	771132	P01392W	382104	771342

POTOMAC RED STRATUM (50' AND OVER) POTOMAC RED STRATUM (50' AND OVER)

SAMPLE SITE	LAT	LONG	SAMPLE SITE	LAT	LONG
PO1403R	380054	761923	PO1438R	380209	762315
PO1404R	380104	761923	PO1439R	380225	762315
PO1405R	380054	761942	PO1440R	380209	762333
PO1406R	380108	761942	PO1441R	380225	762333
PO1407R	380054	762000	PO1442R	380240	762333
PO1408R	380108	762000	PO1443R	380225	762352
PO1409R	380120	762020	PO1444R	380240	762352
PO1410R	380108	762020	PO1445R	380256	762352
PO1411R	380054	762020	PO1446R	380226	762415
PO1412R	380042	762020	PO1447R	380240	762415
PO1413R	380054	762038	PO1448R	380256	762415
PO1414R	380108	762038	PO1449R	380310	762415
PO1415R	380123	762038	PO1450R	380240	762433
PO1416R	380108	762059	PO1451R	380256	762433
PO1417R	380122	762059	PO1452R	380310	762433
PO1418R	380056	762118	PO1453R	380256	762453
PO1419R	380108	762118	PO1454R	380310	762453
PO1420R	380122	762118	PO1455R	380325	762453
PO1421R	380108	762138	PO1456R	380310	762512
PO1422R	380122	762138	PO1457R	380325	762512
PO1423R	380138	762138	PO1458R	380340	762512
PO1424R	380122	762157	PO1459R	380325	762530
PO1425R	380138	762157	PO1460R	380340	762530
PO1426R	380152	762157	PO1461R	380355	762530
PO1427R	380138	762214	PO1462R	380325	762550
PO1428R	380152	762214	PO1463R	380340	762550
PO1429R	380207	762214	PO1464R	380355	762550
PO1430R	380138	762235	PO1465R	380327	762011
PO1431R	380152	762235	PO1466R	380340	762011
PO1432R	380209	762235	PO1467R	380355	762011
PO1433R	380143	762255	PO1468R	380410	762011
PO1434R	380152	762255	PO1469R	380340	762629
PO1435R	380209	762255	PO1470R	380355	762629
PO1436R	380223	762255			
PO1437R	380152	762315			

SAMPLE SITE	LAT	LONG	SAMPLE SITE	LAT	LONG
PO1471R	380410	762629	PO1506R	380456	763000
PO1472R	380344	762659	PO1507R	380512	763000
PO1473R	380355	762659	PO1508R	380442	763017
PO1474R	380410	762659	PO1509R	380456	763017
PO1475R	380355	762713	PO1510R	380412	763017
PO1476R	380410	762713	PO1511R	380528	763017
PO1477R	380355	762725	PO1512R	380500	763039
PO1478R	380410	762725	PO1513R	380512	763039
PO1479R	380426	762725	PO1514R	380528	763039
PO1480R	380410	762748	PO1515R	380545	763039
PO1481R	380426	762748	PO1516R	380514	763056
PO1482R	380441	762748	PO1517R	380528	763056
PO1483R	380410	762805	PO1518R	380545	763056
PO1484R	380426	762805	PO1519R	380600	763056
PO1485R	380442	762805	PO1520R	380612	763056
PO1486R	380410	762820	PO1521R	380528	763115
PO1487R	380426	762820	PO1522R	380545	763115
PO1488R	380440	762820	PO1523R	380600	763115
PO1489R	380410	762840	PO1524R	380615	763115
PO1490R	380426	762840	PO1525R	380600	763130
PO1491R	380442	762840	PO1526R	380615	763130
PO1492R	380410	762903	PO1527R	380630	763130
PO1493R	380426	762903	PO1528R	380645	763130
PO1494R	380442	762903	PO1529R	380702	763130
PO1495R	380410	762920	PO1530R	380615	763150
PO1496R	380426	762920	PO1531R	380630	763150
PO1497R	380442	762920	PO1532R	380645	763150
PO1498R	380456	762920	PO1533R	380702	763150
PO1499R	380416	762920	PO1534R	380716	763150
PO1500R	380426	762940	PO1535R	380732	763150
PO1501R	380442	762940	PO1536R	380645	763216
PO1502R	380456	762940	PO1537R	380700	763214
PO1503R	380510	762940	PO1538R	380717	763214
PO1504R	380426	763000	PO1539R	380732	763214
PO1505R	380442	763000	PO1540R	380746	763214

SAMPLE SITE	LAT	LONG	SAMPLE SITE	LAT	LONG
PO1541R	380700	763230	PO1569R	380934	763407
PO1542R	380717	763230	PO1570R	380850	763427
PO1543R	380732	763230	PO1571R	380906	763427
PO1544R	380746	763230	PO1572R	380921	763427
PO1545R	380800	763230	PO1573R	380934	763427
PO1546R	380717	763249	PO1574R	380951	763428
PO1547R	380732	763249	PO1575R	380906	763446
PO1548R	380746	763249	PO1576R	380921	763446
PO1549R	380803	763249	PO1577R	380934	763446
PO1550R	380817	763249	PO1578R	380951	763446
PO1551R	380732	763308	PO1579R	380921	763502
PO1552R	380746	763310	PO1580R	380934	763502
PO1553R	380803	763310	PO1581R	380951	763502
PO1554R	380816	763310	PO1582R	381007	763502
PO1555R	380803	763330	PO1583R	380934	763524
PO1556R	380816	763330	PO1584R	380951	763524
PO1557R	380834	763330	PO1585R	381007	763521
PO1558R	380850	763330	PO1586R	382343	765945
PO1559R	380816	763346	PO1587R	382342	770010
PO1560R	380834	763346	PO1588R	382354	770027
PO1561R	380850	763346	PO1589R	382403	770032
PO1562R	380906	763346	PO1590R	382408	770046
PO1563R	380803	763345	PO1591R	382417	770109
PO1564R	380820	763402	PO1592R	382436	770130
PO1565R	380834	763406	PO1593R	382540	770143
PO1566R	380850	763406	PO1594R	382442	770206
PO1567R	380906	763406	PO1595R	382439	770226
PO1568R	380921	763406	PO1596R	382437	770243