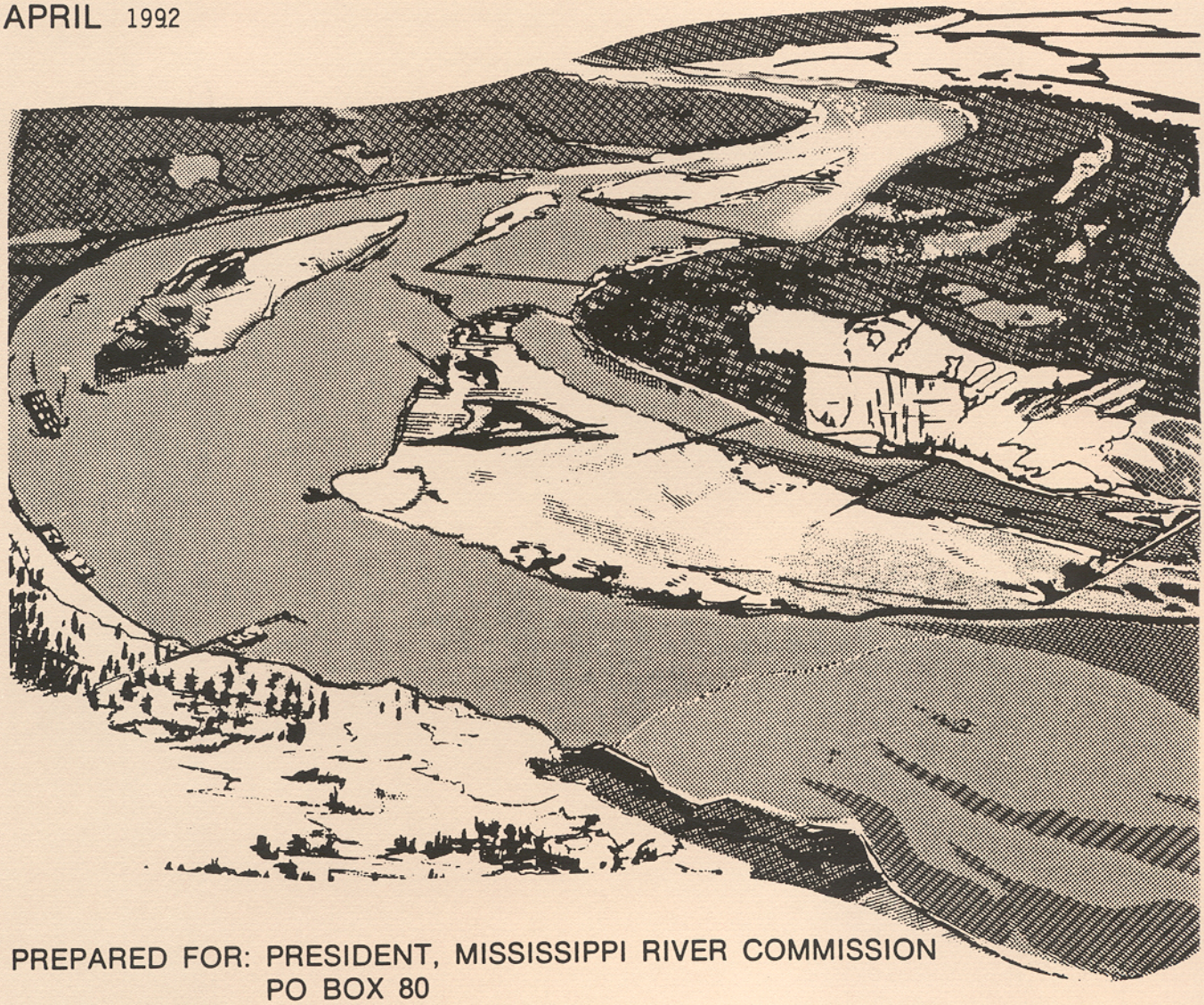
US Army Corps
of Engineers
Mississippi River
Commission

ECOLOGICAL DATABASES OF THE LOWER MISSISSIPPI RIVER

LOWER MISSISSIPPI RIVER ENVIRONMENTAL PROGRAM
REPORT 14
APRIL 1992



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The Lower Mississippi River Environmental Program being conducted by the Mississippi River Commission has resulted in the collection of a large quantity of ecological and physical data. In order to efficiently and effectively utilize this information, a data management system based on the Statistical Analysis System (SAS) software was developed. The Database consist of 149 SAS and CMS data files that can be accessed by technical subject matter, e.g., water quality; or study type, e.g., dike system studies. The data system is operative on the IBM 9370 minicomputer and a 80486 microcomputer at the Mississippi River Commission in Vicksburg, MS.

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PREFACE

The Lower Mississippi River Environmental Program (LMREP) is a comprehensive series of investigations of the fish and wildlife resources of the Lower Mississippi River and floodplain being conducted by the Mississippi River Commission (MRC). The program was initiated in FY 1981 and is scheduled for completion in January 1994. The objectives of the LMREP are: 1) development of an environmental inventory of river channel and floodplain fish and wildlife resources and habitats; and 2) development of environmental design considerations for the Channel Improvement and Mississippi River Levees features of the Mississippi River and Tributaries Project for navigation and flood control.

This report documents and describes how to use the computerized database that contains the results of all LMREP investigations and work units. This is the second revision of LMREP Report 14 which was first published in April 1988. Since the original version of Report 14 was assembled in 1987, several LMREP investigations have been carried out and the SAS Institute dataset format in which the data are contained has been revised. Therefore, it was necessary to update Report 14 to include all new LMREP data files and to convert all data files to the new SAS format.

Report 14 and the LMREP database were originally developed by Dr. A. D. Magoun of Applied Research and Analysis, Inc. and S. P. Cobb, MRC. The revised report and database were assembled by Mr. P. D. Clouse, Computer Data Systems, Inc. and Mr. S. P. Cobb. The authors would like to acknowledge the valuable assistance of the many individuals and organizations who contributed to the database.

This work effort was managed by the Environmental Resources Branch, Planning Directorate, MRC and was sponsored by the Engineering Directorate, MRC. Mr. S. P. Cobb was the Program Manager, LMREP. The work was carried out under the overall direction of the President, MRC, BG P. M. Stevens, CE.

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LOWER MISSISSIPPI RIVER ENVIRONMENTAL PROGRAM

Ecological Databases of the Lower Mississippi River

Part I: INTRODUCTION

Mississippi River & Tributaries (MR&T) Project

1. Historically, flooding hampered settlement and development along the Lower Mississippi River and associated floodplain. For example, destructive floods occurred in 1849, 1850, 1912, 1913, 1916, 1927, 1938, and 1973. The Mississippi River Commission (MRC) was established by Congress in 1879 to conduct flood control efforts on the lower river. The devastating flood of 1927 prompted Congress to pass the Flood Control Act of 1928 which authorized the Mississippi River and Tributaries (MR&T) Project, a comprehensive plan for flood control and navigation on the main stem of the Lower Mississippi River and its tributary streams. The MR&T project is carried out by the MRC and consists primarily of the levee systems, floodways, and channel improvements.

2. The MRC is conducting an environmental data collection program on the Lower Mississippi River with two objectives: (a) Development of an environmental inventory database and (b) Development of environmental design considerations for dikes, revetments, and levees. The Lower Mississippi River Environmental Program (LMREP) was initiated in FY 1981 and is scheduled for completion in FY 1993. Fishery, wildlife, and habitat resources are the primary focus; however, emphasis is placed on the formulation of environmental design considerations for channel improvement work. The LMREP consists of five work units: (a) leveed borrow pit investigations, (b) dike system investigations, (c) habitat inventories, (d) revetment investigations, and (e) development of environmental design considerations for dikes, revetments, and levee right-of-ways for the mainstem

MR&T project. Table 1 describes each of these investigations in more detail and cites references and table numbers so that more definitive descriptions of study areas, materials and methods, and related dataset table numbers can be easily obtained.

3. A wide variety of ecological information on terrestrial vegetation, fish, birds, invertebrates, mammals, sediments, water quality, and other environmental variables has been collected during the LMREP. In order to archive this large amount of data and to make it available to future users in an accessible, organized form it was necessary to develop a computerized information system containing all LMREP data. This report contains the documentation for the LMREP Database System, including a description of all data files, and instructions on how to use the system.

Part II: LOWER MISSISSIPPI RIVER ENVIRONMENTAL PROGRAM (LMREP) DATABASE SYSTEM

LMREP Databases

4. The enormity of this environmental program required data collection from several private and governmental contractors. The emphasis of this project was to obtain all available data from the individual contractors so that all of the LMREP databases could be centralized on a readily accessible computer system for future access. Furthermore, this centralization of the LMREP database would be one of the most comprehensive environmental databases on the Lower Mississippi River. Each element was transported to the US Army Engineer Waterways Experiment Station (WES) in Vicksburg, Mississippi, by means of magnetic tapes and uploaded to the IBM 4331 computer system maintained and operated by the Information Technology Laboratory (ITL) at WES. The IBM 4331 system supports IBM's Virtual Memory/Conversational Monitoring System (VM/CMS) products which are essentially a user friendly communications package. The

databases now reside on an IBM 9370 mini-computer system maintained and operated by the Information Management Office at the Mississippi River Commission (MRC). The IBM 9370 system supports VM/CMS. Statistical Analysis System (SAS), a trademark of the SAS Institute, was chosen as the database software system because of its availability and comprehensiveness in both database capabilities, graphics, and application packages. Therefore, use of the LMREP Database System requires a working knowledge of SAS. Because of the complexity of the SAS software, however, it was not possible to provide complete instructions on the use of SAS in this report.

5. The LMREP database consists of 149 SAS and CMS datasets and is resident on 9-track, 1600 bits per inch (bpi) tapes and was produced using the CMS Tape Command Facility. They are available in both VM-compatible format and transport format. Transport handling datasets were created using proc copy and can be ported to any operating system using this procedure. Table 1 contains the database appendices and cross references to LMREP Reports and study types and Table 2 briefly describes each appendix. Tables 3 through 10 describe each dataset by investigation category, and Tables 11 through 18 provide descriptive information by study type. The LMREP datasets occupy 60 megabytes of disk storage and are summarized in tables 19 through 21. Furthermore, Appendices A through I give a detailed description of each dataset in the LMREP database. In each of these tables the relevant LMREP dataset is documented according to its file name, file type, archived tape number, appendix reference, and a brief description. The referenced appendix fully documents each of the LMREP SAS datasets. Table 22 describes the status of LMREP reports. Tables 23 and 24 describe the individual habitat descriptors and sampling station nomenclature within the investigation categories.

6. Access to the LMREP database requires a user ID on the IBM 9370 computer system, which is located at the Lower Mississippi Valley Division (LMVD), and a knowledge of SAS. SAS user manuals may be obtained from the Environmental Analysis Division, Directorate of Planning at the Mississippi River Commission or from the SAS Institute in Cary, North Carolina.

7. Access to the LMREP database is obtained by means of the CMS tape facilities. The tape must be mounted in the tape drive and then attached to the session as device number 181. Attaching to a session must be performed from the system console. The syntax for this command is as follows:

ATTACH D70 <User ID> 181

8. The required tape numbers as well as the file names and file types which are necessary for access to the LMREP database are given in Tables 3 through 18. After the tape is mounted and attached to the session, the SAS datasets resident on the tape are ready for uploading to a minidisk for the VM/CMS session.

9. The TAPE command is used to upload files from the tape to disk. The command for uploading a specified file with the TAPE command is:

TAPE LOAD <File Name> <File Type> <File Mode>

The file name and file type are obtained from tables 3 through 18, and the file mode is the minidisk designator A or G. File mode A corresponds to the permanent virtual disk associated with the user ID, and the file mode G corresponds to a temporary disk created with the TEMPDISK command. It is highly recommended that datasets be uploaded to temporary space, which can be obtained with the following command:

TEMPDISK 30000

The above command will allocate 30,000 blocks of storage to a temporary disk. Therefore, a TAPE command with a G file mode designator will upload the specified file or files to this temporary disk storage. If datasets are uploaded to the G file mode, then the CMS FILEDEF or the SAS libname statement must be used to associate SAS dataset or CMS data file with the G file mode. The attachment is achieved by the following FILEDEF statement:

FILEDEF <File Type> DISK DUMMY G or
LIBNAME Libref (G)

Also, since the G minidisk is temporary space, all datasets uploaded to this minidisk will be automatically deleted when the session is terminated.

10. As mentioned above, the syntax of the TAPE command is as follows:

TAPE LOAD <File Name> <File Type> <File Mode>

Individual Files can be uploaded by specifying the <File Name> and <File Type> which can be obtained from Tables 3 through 18. For example, the DF_BPN BENTHOS dataset can be uploaded as follows:

TAPE LOAD DF_BPN BENTHOS G

This command sequentially searched the tape for the indicated file and, if found, this file will be loaded onto the temporary G minidisk. All files of a common file type can be uploaded as follows:

TAPE LOAD * <File Type> G

For example, all FSH_SUM datasets may be uploaded as follows:

TAPE LOAD * FSH_SUM G

All BENTHOS datasets may be uploaded as follows:

```
TAPE LOAD * BENTHOS G
```

11. As is observed from the above examples, the archived LMREP datasets can be readily uploaded from tape to disk. Therefore, access by users of various data processing backgrounds is relatively easy. Also, when the desired datasets have been loaded onto the minidisk, the REWIND 181 and DETACH 181 commands should be issued so that the tape drive can be detached from the CMS session. Finally, remove the tape from the tape drive and store the tape in its proper location.

LMREP Format Specifications

12. The 0FORMATS BENFMT file, resident on tape number 20930, has phylogenetic nomenclature for benthic invertebrates and is accessible to the user by means of format specifications. The format specifications PHYLUM, CLASS, ORDER, and FAMILY can be used to construct SAS variables for these taxonomic classes for a species code. The variable TAXA, which is currently in all benthological databases, contains the lowest taxonomic name, i.e., genus and species. The higher level classifications can be obtained by the following SAS Code:

```
PHYLUM = PUT(SPECODE,PHYLUM30.);
CLASS = PUT(SPECODE,CLASS30.);
ORDER = PUT(SPECODE,ORDER30.);
FAMILY = PUT(SPECODE,FAMILY30.);
```

When utilizing format specifications it is necessary to include the following SAS code at the beginning of a program:

```
LIBNAME LIBRARY 'BENFMT A';
```

13. The 0FORMATS FSHFMT file, resident on tape 18541, has phylogenetic nomenclature for fishes contained in the database, and is accessible to the user by means of format specifications. The format specifications FCFMT, FOFMT, FFFMT, FGFMT, and FSFMT can be used to construct the taxonomic names for phylum, family, genus, and species associated with a species code. The variable TAXA, which is currently in all fishery databases, contains the common name for each species code which is identifiable to genus and species. The format FNFMT can be used to construct common names. The specification SORTCODE produces the necessary data, when used in conjunction with genus and species, to sort fish taxa in phylogenetic order. Fish taxonomic format variables are created as follows:

```
CLASS = PUT(SPECODE,FCFMT30.);
ORDER = PUT(SPECODE,FOFMT30.);
FAMILY = PUT(SPECODE,FFFMT30.);
GENUS = PUT(SPECODE,FGFMT30.);
SPECIES = PUT(SPECODE,FSFMT30.);
NAME = PUT(SPECODE,FNFMT30.);
CODE = INPUT(PUT(SPECODE,SORTCODE.),3.);
```

When utilizing format specifications the following SAS code must be used at the beginning of the program:

```
LIBNAME LIBRARY 'FSHFMT A';
```

14. The 0FORMATS files should be uploaded from tape to the permanent A minidisk so that they are always available. The tape command to achieve this is:

```
TAPE LOAD 0FORMATS * A
```

Storing the format files on the A minidisk will produce permanent files for the user ID.

Adding Data to Format Specification Files - SAS Version 6.06

15. The change from version 5 to version 6 of SAS has brought about a different way of handling and manipulating format specification libraries. The following is a list of changes that affect format specification libraries.

(1) CMS TXTLIB libraries are no longer utilized.

(2) Format specifications now reside in a 0FORMATS library. FSHFMT TXTLIB A1 is now 0FORMATS FSHFMT A1 and BENFMT TXTLIB A1 is now 0FORMATS BENFMT A1.

(3) All format specifications must be a assigned to a library reference before they can be used. The CMS system uses a reserved library named LIBRARY.FORMATS to hold library references. Using the key word LIBRARY in a LIBNAME statement tells SAS to make the library the current format specification library.

```
LIBNAME LIBRARY 'FSHFMT A';
```

This will make the 0FORMATS FSHFMT library on minidisk A the current format specification.

(4) All updates, additions, and deletions of format specification libraries are now handled through SAS.

**** I M P O R T A N T ****

Always have a backup of the format libraries before attempting the procedure listed below.

****

The following is a listing of the ADDFMT program that can be modified and utilized to make additions to format specification libraries.

To modify the program to update any of the format specification follow these steps:

(1) Change the format library (FSHFMT or BENFMT) to the

appropriate one in lines 1, 3, and 35.

(2) Change the format specification name (FCFMT, FOFMT, FFFMT, FGFMT, FSFMT, FNFMT, SORTCODE for the FSHFMT library or PHYLUM, CLASS, ORDER, FAMILY for the BENFMT library) to the appropriate one in lines 9 & 15.

IMPORTANT: The name in line 15 must be padded with spaces to total 8 characters.

(3) Any new taxonomic observations may be entered on lines 18 & 19. The data elements must be entered in order of code and name.

NOTE: You may insert as many lines as needed.

```
00001 libname library 'fshfmt a';
00002
00003 proc format library=fshfmt cntlout=original;
00004 run;
00005
00006 data origfmt (drop=tempvar);
00007   set original (rename=(start=tempvar));
00008   if fmtname ^= 'FNFMT' then delete;
00009   start = input (tempvar, 8.);
00010   keep start label fmtname;
00011 run;
00012
00013
00014 data adds;
00015   fmtname='FNFMT   ';
00016   input start label $40.;
00017   cards;
00018 279 testfish
00019 280 big testfish
00020 ;
00021
00022 proc append base=origfmt data=adds;
00023 run;
00024
00025 proc sort data=origfmt;
00026 by start;
00027 run;
00028
00029 data newfmt;
00030   set origfmt;
00031   by start;
00032   if last.start;
```

```
00033 run;
00034
00035 proc format library=fshfmt cntlin=newfmt;
00036 run;
```

Line 1: This makes the 0FORMATS FSHFMT A1 library the current format specification library. This line must be in any program that utilizes format specifications.

Lines 3 & 4: Put existing format specifications for the entire library in a file named WORK.ORIGINAL.

NOTE: Variables in the format specifications are standard i.e. START, LABEL, and FMTNAME. Refer to page 301 of the SAS Procedures Guide, Version 6, Third Edition for a complete listing of variable names.

NOTE: The standard variables correspond to existing variables in the SAS datasets. Example: In the FNFMT format specification START is equal to SPECODE and LABEL is equal to TAXA.

Lines 6 - 11: Converts the START variable from a character variable to a numeric variable for easier manipulation. It also creates a new file WORK.ORIGFMT that will contain all original data for the FNFMT format specification only, keeping only the information necessary.

Lines 14 - 20: This is the part of the code that used to add data to the format specification. It creates a file called WORK.ADDS. Simply list the codes and the names that you wish to add to the format specification. It is important to include the format specification name (line 15) and it must be exactly 8 characters long.

Lines 22 - 23: This procedure will add the additions (WORK.ADDS) to the original data (WORK.ORIGFMT) to create an updated format specification.

Lines 25 - 27: Since the START variable is the unique identifier for each format, this part of the code will sort the WORK.ORIGFMT file by the START variable.

Lines 29 - 33: This part of the code will create the final data set before it is written as a format. It creates a file (WORK.NEWFMT) and places the updated information without duplicates into the file. This step is necessary because parts of the original file included a '?' as a holding place.

Lines 35 - 36: This procedure will write the format specification in dataset WORK.NEWFMT to the format specification library (FSHFMT).

The following is the log file from submission of the ADDFMT program.

```
 1          libname library 'fshfmt a';

NOTE:  Libref LIBRARY was successfully assigned as follows:
       Engine:        V606
       Physical Name: FSHFMT   A1

 2
 3          proc format library=fshfmt cntlout=original;
 4          run;

NOTE:  The dataset WORK.ORIGINAL has 1757 observations and 17
variables.

 5
 6          data origfmt (drop=tempvar);
 7            length start 8;
 8            set original (rename=(start=tempvar));
 9            if fmtname ^= 'FNFMT' then delete;
 10           start=tempvar;
 11           keep start label fmtname;
 12         run;
```

```
NOTE:  Character values have been converted to numeric values at
the places given by: (Number of times) at (Line):(Column).
       251 at 10:9

NOTE:  The dataset WORK.ORIGFMT has 251 observations and 3
variables.

 13
 14          data adds;
 15            fmtname='FNFMT    ';
 16            input start label $40.;
 17            cards;

NOTE:  The dataset WORK.ADDS has 2 observations and 3 variables.

 20          ;
 21
 22          proc append base=origfmt data=adds;
 23          run;

NOTE:  Appending WORK.ADDS to WORK.ORIGFMT.

NOTE:  The dataset WORK.ORIGFMT has 253 observations and 3
variables.

 24
 25          proc sort data=origfmt;
 26          by start;
 27          run;

NOTE:  SAS sort was used.

NOTE:   The dataset WORK.ORIGFMT has 253 observations and 3
variables.

 28
 29          data newfmt;
 30            set origfmt;
 31            by start;
 32            if last.start;
 33          run;

NOTE:  The dataset WORK.NEWFMT has 251 observations and 3
variables.

 34
 35          proc format library=fshfmt cntlin=newfmt;

WARNING:  Format FNFMT is already on the library.

NOTE:  Format FNFMT has been output.

 36          run;
```

Summary of Commands

16. The following CMS and SAS commands discussed in Paragraphs 7 through 14 are summarized as follows:

ATTACH D70 <user ID> 181	- Attaches the session as device number 181. Must be done from system console.
TEMPDISK <blocks>	- Creates a temporary G minidisk.
TAPE LOAD <FN> <FT> <FM>	- Uploads a file from the tape to minidisk designator FM.
TAPE LOAD * <FT> <FM>	- Uploads all files of file type FT to minidisk designator FM.
TAPE LOAD * * <FM>	- Uploads all tape files to minidisk designator FM.
REWIND 181	- Rewinds Tape.
DETACH 181	- Detaches tape from CMS session.
LIBNAME LIBRARY 'fmt spec'	- Assigns 'fmt spec' as the current format specifications library.

Backup and Recovery

17. Backup tapes were produced so that recovery from any type of failure could be achieved. There are three tapes containing all LMREP SAS version 6.06 dataset and associated SAS program files. These tapes, numbers 10660, 18541, and 20930, are duplicated on a second set of tapes. The tape label clearly indicates if it is a duplicate tape. The duplicate tapes are archived in the tap vault at WES-IM. Also, a set of LMREP SAS version 5 datasets is on file. In order to recover from any type of tape handling error, the datasets from the appropriate backup tape can be uploaded to a minidisk. This backup tape must be detached and the errant tape should be attached with a "write" ring. A "write" ring can only be attached by the owner of the

tape. The owner must physically place the "write" ring on the tape at the LMVD. This physical placement is to prevent accidental destruction of the tape. Uploading of datasets from the backup tapes can be achieved by the following tape command:

TAPE LOAD * * G

The contents of a G minidisk can then be reloaded on the errant tape by the following command:

TAPE DUMP * * G

After recreating a tape, one should use the TAPE SCAN command to view the contents of the recreated tape.

PART III: SUMMARY

18. The LMREP database is resident on three magnetic tapes and consists of 149 SAS and CMS datasets. The TAPE LOAD command can be used to upload these datasets from tape to disk. The LMREP datasets are "write" protected; therefore, a user will be unable to alter or delete the contents of these datasets. SAS is the underlying database management software system and SAS commands are easily used with the LMREP database. More information pertaining to these and other SAS commands can be found in SAS manuals which are available at the LMVD or the SAS institute.

19. Additional Information on the use of the LMREP Database System can be obtained by contacting:

US Army Corps of Engineers
Lower Mississippi Valley Division
Environmental Analysis Division (CELMV-PD-R)
P.O. Box 80
Vicksburg, MS 39181-0080

Telephone: 601-634-5854 Facsimile: 601-634-5468

Table 1
LMREP Investigations

Investigation Type	Study Type	Report Number	Table Number
Borrow Pit	Fish	1	3 & 11
	Benthos	1	3 & 12
	Water Quality	2	3 & 13
	Sediment	2	3 & 14
	Physical	2	3 & 17
	Wildlife	3	3 & 15
Dike Fields			
Dike Systems	Fish	16	4 & 11
	Benthos	12,16,20	4 & 12
	Water Quality	12,16,20	4 & 13
	Currents	12,16,20	4 & 13
	Sediments	12,16,20	4 & 14
	Wildlife	10	4 & 15
	Physical	5	4 & 17
	Engineering	5	4 & 17
Dike Pools	Fish	12	5 & 11
	Benthos	12	5 & 12
	Benthic Drift	12	5 & 12
	Larval Fish	12	5 & 11
	Water Quality	12	5 & 13
	Sediments	12	5 & 14
	Hydroacoustics-fish	12	5 & 16
Secondary & Main Channels	Fish	7	8 & 11
	Benthos	7	8 & 12
	Benthic Drift	7	8 & 12
	Epifauna	7	8 & 12
	Water Quality	7	8 & 13
	Sediments	7	8 & 14
	Hydroacoustics-fish	7	8 & 16
Revetment	Fish	9	6 & 11
	Benthos	8,9	6, 7, & 12
	Benthic Drift	9	6, 7, & 12
	Larval Fish	8	7 & 18
	Zooplankton	8	7 & 18
	Plankton	8	7 & 18
	Water Quality	8,9	6, 7, & 13
	Currents	8,9	6, 7, & 14
	Sediments	8,9	6, 7, & 15
	Hydroacoustics-fish	9	6 & 16
	Vegetation	15	10 & 15

(Continued)

Table 1 (Concluded)
LMREP Investigations

Investigation Type	Study Type	Report Number	Table Number
Habitat Inventory Floodplain	Fish	6	9 & 11
	Benthos	6	9 & 12
	Water Quality	6	9 & 13
	Sediments	6	9 & 14
Floodplain Vegetation	Vegetation	11	10 & 15

Table 2
LMREP Appendices

Appendix	Study Type	Tape #	Description
A	Fish	18541	Enumerated length/weight of fishery communities
B	Fish	20930	Summary of fishery data
C	Benthos	20930	Benthological count and density data
D	Benthos	20930	Benthological biomass data
E	Water Quality	20930	Water quality, currents, and primary productivity
F	Sediments	20930	Grain size distributions
G	Wildlife and Vegetation	10660	Wildlife utilization and vegetation inventories
H	Hydroacoustics	20930	Fish density estimation using hydroacoustics
I	Drift Samples (Eddy Study)	20930	Larval fish, plankton, and zooplankton

Table 3
Borrow Pit Investigations

Study Type	File Name	File Type	Tape #	Appendix Ref.	Description
Fish	BP_T_RTN	FISH	18541	A2	Individual Fish
	BP_S_RTN	FISH	18541	A3	Slotted Fish
	BP_S_RTN	FSH_SUM	20930	B2	Slotted Summary
	BPFISH	DATA	18541	--	CMS dataset
Benthos	BP_BPN	BENTHOS	20930	C2	Count Data
Water Quality	BP	WATERQTY	20930	E2	Hydrolab
Sediments	BP	SEDIMENT	20930	F2	Grain Size
Wildlife	HEADER	BORROWPT	10660	G39	Header Information
	SPECIES1	BORROWPT	10660	G42	Counts (no zeros)
	SPECIES2	BORROWPT	10660	G43	Counts
	NESTING1	BORROWPT	10660	G40	Counts (no zeros)
	NESTING2	BORROWPT	10660	G41	Counts

Table 4
Dike Systems Investigations

Study Type	File Name	File Type	Tape #	Appendix Ref.	Description
Fish	DF_ES	FISH	18541	A4	Electroshock
	DF_GN	FISH	18541	A5	Gill Nets
	DF_HN	FISH	18541	A6	Hoop Nets
	DF_RTN	FISH	18541	A7	Rotenone
	DF_SEIN	FISH	18541	A8	Seins
	DF_ES	FSH_SUM	20930	B3	ES Summary
	DF_GN	FSH_SUM	20930	B5	GN Summary
	DF_HN	FSH_SUM	20930	B6	HN Summary
	DF_RTN	FSH_SUM	20930	B7	RTN Summary
	DF_SEIN	FSH_SUM	20930	B8	Sein Summary
	DIK90RTN	FISH	18541	A20	Rotenone (1990)
	DIK89RTN	FISH	18541	A21	Rotenone (1989)
	DIK88RTN	FISH	18541	A22	Rotenone (1988)
	DIK87RTN	FISH	18541	A23	Rotenone (1987)
Benthos	DF_PLN	BENTHOS	20930	C3	Count Data (Drift)
	DF_RCK	BENTHOS	20930	C4	Count Data (Rocks)
	DF_SHK	BENTHOS	20930	C5	Count Data (Grabs)
	DF_SHK	BIOMASS	20930	D3	Biomass (Grabs)
Water Quality	DF	WATERQTY	20930	E3	Hydrolab/currents
Sediments	DF	SEDIMENT	20930	F3	Grain Size
	LWRP10	SEDDATA	20930	F9	Sediment LWRP +10'
	SANDBAR	SEDDATA	20930	F10	Sandbar LWRP +10'
	ALLDIKES	SEDDATA	20930	F11	Sedimentation
Wildlife	HEADER	DIKEFLD	10660	G45	Header Information
	SPECIES1	DIKEFLD	10660	G46	Counts (no zeros)
	SPECIES2	DIKEFLD	10660	G47	Counts
	DF_ACRES	BIRD	20930	--	CMS dataset
	DF_BIRDS	DATA	20930	--	CMS dataset
Physical & Engineering	DF_PHYS	ENGRDATA	20930	--	CMS dataset

Table 5
Dike Pool Investigations

Study Type	File Name	File Type	Tape #	Appendix Ref.	Description
Fish	DFP_ES	FISH	18541	A9	Electroshock
	DFP_GN	FISH	18541	A10	Gill Nets
	DFP_SEIN	FISH	18541	A11	Seins
	DFP_ES	FSH_SUM	20930	B9	ES Summary
	DFP_GN	FSH_SUM	20930	B11	GN Summary
	DFP_SEIN	FSH_SUM	20930	B12	Sein Summary
Benthos	DFP_RCK	BENTHOS	20930	C6	Count Data (Rocks)
	DFP_SHK	BENTHOS	20930	C7	Count Data (Grabs)
Water Quality	DFP	WATERQTY	20930	E4	Hydrolab/currents
	DFP_CHL	WATERQTY	20930	E5	Chlorophyll
Sediments	DFP	SEDIMENT	20930	F4	Grain Size
Hydro-acoustics (fish)	DFP_TS	HYDROACU	18541	H3	Target Strength
	DFP_EG	HYDROACU	18541	H2	Echogram Data

Table 6
Revetment Investigations

Study Type	File Name	File Type	Tape #	Appendix Ref.	Description
Fish	RV_ES	FISH	18541	A15	Electroshock
	RV_HN	FISH	18541	A16	Hoop Nets
	RV_SEIN	FISH	18541	A17	Seins
	RV_ES	FSH_SUM	20930	B13	ES Summary
	RV_HN	FSH_SUM	20930	B15	HN Summary
	RV_SEIN	FSH_SUM	20930	B16	Sein Summary
Benthos	RV_ACB	BENTHOS	20930	C11	Count Data (ACB)
	RV_ACS	BENTHOS	20930	C12	Count Data (ACS)
	RV_HES	BENTHOS	20930	C13	Count Data (HES)
	RV_JAR	BENTHOS	20930	C14	Count Data (JAR)
	RV_PLN	BENTHOS	20930	C15	Count Data (Drift)
	RV_SHK	BENTHOS	20930	C16	Count Data (Grabs)
	RV_SNG	BENTHOS	20930	C17	Count Data (Snags)
	RV_ACB	BIOMASS	20930	D4	Biomass (ACB)
	RV_ACS	BIOMASS	20930	D5	Biomass (ACS)
	RV_SNG	BIOMASS	20930	D6	Biomass (Snags)
Water Quality	RV	WATERQTY	20930	E8	Hydrolab/currents
Sediments	RV	SEDIMENT	20930	F7	Grain Size
Hydro-acoustics (fish)	RV_TS	HYDROACU	18541	H5	Target Strength
	RV_EG	HYDROACU	18541	H4	Echogram Data
Vegetation	HEADER	REVET	10660	G50	Header Information
	GRNDCOVR	REVET	10660	G49	Percent Cover
	SEEDLING	REVET	10660	G51	Seedling Counts
	VINES	REVET	10660	G55	Vine Counts
	TREENUM	REVET	10660	G54	Tree Counts
	TREEDIAM	REVET	10660	G53	Tree Diameters
	TREECOVR	REVET	10660	G52	Percent Canopy

Table 7
Revetment Eddy Investigations

Study Type	File Name	File Type	Tape #	Appendix Ref.	Description
Larval Fish	LARFISH	EDDY	20930	I2	Densities
Plankton	PLANKTON	EDDY	20930	I3	Densities
Zoo-plankton	ZOOPLANK	EDDY	20930	I4	Densities
Benthos	EDDY_PLN	BENTHOS	20930	C8	Count Data (Drift)
	EDDY_SHK	BENTHOS	20930	C9	Count Data (Grabs)
Water Quality	EDDY	WATERQTY	20930	E6	Hydrolab/currents
Sediments	EDDY	SEDIMENT	20930	F5	Grain Size

Table 8
Secondary Channel Investigations

Study Type	File Name	File Type	Tape #	Appendix Ref.	Description
Fish	SC_ES	FISH	18541	A18	Electroshock
	SC_SEIN	FISH	18541	A19	Seins
	SC_ES	FSH_SUM	20930	B17	ES Summary
	SC_SEIN	FSH_SUM	20930	B19	Sein Summary
Benthos	SC_BPN	BENTHOS	20930	C18	Count Data (Grabs)
	SC_RCK	BENTHOS	20930	C19	Count Data (Rocks)
	SC_SHK	BENTHOS	20930	C20	Count Data (Grabs)
	SC_RCK	BIOMASS	20930	D7	Biomass (Rocks)
Water Quality	SC	WATERQTY	20930	E9	Hydrolab/currents
Sediments	SC	SEDIMENT	20930	F8	Grain Size
Hydro-acoustics	SC_TS	HYDROACU	18541	H7	Target Strength
	SC_EG	HYDROACU	18541	H6	Echogram Data

Table 9
Floodplain Lakes Investigations

Study Type	File Name	File Type	Tape #	Appendix Ref.	Description
Fish	FPL_ES	FISH	18541	A12	Electroshock
	FPL_GN	FISH	18541	A13	Gill Nets
	FPL_RTN	FISH	18541	A14	Rotenone
Benthos	FPL_BPN	BENTHOS	20930	C10	Count Data (Grabs)
Water Quality	FPL	WATERQTY	20930	E7	Hydrolab
Sediments	FPL	SEDIMENT	20930	F6	Grain Size

Table 10
Floodplain Vegetation Investigations

Study Type	File Name	File Type	Tape #	Appendix Ref.	Description
Vegetation	HEADER	FOREST	10660	G5	Header Information
	TREES	FOREST	10660	G12	Diameter Measures
	SAPLINGS	FOREST	10660	G9	Sapling Counts
	SEEDLNGS	FOREST	10660	G10	Seedling Counts
	CANVINES	FOREST	10660	G3	Canopy Vine Counts
	GRNDCOVR	FOREST	10660	G4	Percent Cover
	STANDSUM	FOREST	10660	G11	Stand Summary
	DENSITY	TREES	10660	G15	Tree Densities
	BASAL	TREES	10660	G14	Basal Areas-Trees
	IV	TREES	10660	G17	Importance Values
	DENSITY	SAPLINGS	10660	G19	Sapling Density
	DENSITY	SEEDLNGS	10660	G21	Seedling Density
	DENSITY	SHRUBS	10660	G23	Shrub Density
	DENSITY	SHRBSEED	10660	G25	Shrub Seedling Density
	DENSITY	VINES	10660	G26	Vine Density
	COVER	GROUND	10660	G28	Percent Cover
	TREES	STAND	10660	G36	Density Importance Value, Basal Area
	SAPLINGS	STAND	10660	G32	Sapling Density
	SEEDLNGS	STAND	10660	G33	Seedling Density
	SHRUBS	STAND	10660	G35	Shrub Density
	SHRBSEED	STAND	10660	G34	Shrub Seedling Density
	VINES	STAND	10660	G37	Vine Density
	GRNDCOVR	STAND	10660	G31	Percent Cover
	FACTORS	HES	10660	G38	Overstory Factors
	COVRTYPE	STAND	10660	G30	Cover Type
	HEADER2	FOREST	10660	G6	GIS Site Variables
	FINALSUM	GROUND	10660	G29	Cover Summary
	FINALSUM	SAPLINGS	10660	G20	Sapling Summary
	FINALSUM	SEEDLNGS	10660	G22	Seedling Summary
	FINALSUM	SHRUBS	10660	G24	Shrub Summary
	FINALSUM	VINES	10660	G27	Vine Summary
	FINALSUM	TREES	10660	G16	Tree Summary
	HEADER3	FOREST	10660	G7	Combined Headers with Additional Information

Table 11
Fishery Investigations

Study Type	File Name	File Type	Tape #	Appendix Ref.	Description
Borrow Pit	BP_T_RTN	FISH	18541	A2	Individual Fish
	BP_S_RTN	FISH	18541	A3	Slotted Length
	BP_S_RTN	FSH_SUM	20930	B2	Slotted Summary
Dike Field	DF_ES	FISH	18541	A4	Electroshock
	DF_GN	FISH	18541	A5	Gill Nets
	DF_HN	FISH	18541	A6	Hoop Nets
	DF_RTN	FISH	18541	A7	Rotenone
	DF_SEIN	FISH	18541	A8	Seins
	DF_ES	FSH_SUM	20930	B3	ES Summary
	DF_GN	FSH_SUM	20930	B5	GN Summary
	DF_HN	FSH_SUM	20930	B6	HN Summary
	DF_RTN	FSH_SUM	20930	B7	RTN Summary
	DF_SEIN	FSH_SUM	20930	B8	Sein Summary
Dike Pools	DFP_ES	FISH	18541	A9	Electroshock
	DFP_GN	FISH	18541	A10	Gill Nets
	DFP_SEIN	FISH	18541	A11	Seins
	DFP_ES	FSH_SUM	20930	B9	ES Summary
	DFP_GN	FSH_SUM	20930	B10	GN Summary
	DFP_SEIN	FSH_SUM	20930	B11	Sein Summary
Revetment	RV_ES	FISH	18541	A15	Electroshock
	RV_HN	FISH	18541	A16	Hoop Nets
	RV_SEIN	FISH	18541	A17	Seins
	RV_ES	FSH_SUM	20930	B13	ES Summary
	RV_HN	FSH_SUM	20930	B15	HN Summary
	RV_SEIN	FSH_SUM	20930	B16	Sein Summary
Secondary Channels	SC_ES	FISH	18541	A18	Electroshock
	SC_SEIN	FISH	18541	A19	Seins
	SC_ES	FSH_SUM	20930	B17	ES Summary
	SC_SEIN	FSH_SUM	20930	B19	Sein Summary
Floodplain Lakes	FPL_ES	FISH	18541	A12	Electroshock
	FPL_GN	FISH	18541	A13	Gill Nets
	FPL_RTN	FISH	18541	A14	Rotenone

Table 12
Benthological Investigations

Study Type	File Name	File Type	Tape #	Appendix Ref.	Description
Borrow Pit	BP_BPN	BENTHOS	20930	C2	Count Data
Dike Field	DF_PLN	BENTHOS	20930	C3	Count Data (Drift)
	DF_RCK	BENTHOS	20930	C4	Count Data (Rocks)
	DF_SHK	BENTHOS	20930	C5	Count Data (Grabs)
	DF_SHK	BIOMASS	20930	D3	Biomass (Grabs)
Dike Pools	DFP_RCK	BENTHOS	20930	C6	Count Data (Rocks)
	DFP_SHK	BENTHOS	20930	C7	Count Data (Grabs)
Revetment	RV_ACB	BENTHOS	20930	C11	Count Data (ACB)
	RV_ACS	BENTHOS	20930	C12	Count Data (ACS)
	RV_HES	BENTHOS	20930	C13	Count Data (HES)
	RV_JAR	BENTHOS	20930	C14	Count Data (JAR)
	RV_PLN	BENTHOS	20930	C15	Count Data (Drift)
	RV_SHK	BENTHOS	20930	C16	Count Data (Grabs)
	RV_SNG	BENTHOS	20930	C17	Count Data (Snags)
	RV_ACB	BIOMASS	20930	D4	Biomass (ACB)
	RV_ACS	BIOMASS	20930	D5	Biomass (ACS)
	RV_SNG	BIOMASS	20930	D6	Biomass (Snags)
Eddies	EDDY_PLN	BENTHOS	20930	C8	Count Data (Drift)
	EDDY_SHK	BENTHOS	20930	C9	Count Data (Grabs)
Secondary Channels	SC_BPN	BENTHOS	20930	C18	Count Data (Grabs)
	SC_RCK	BENTHOS	20930	C19	Count Data (Rocks)
	SC_SHK	BENTHOS	20930	C20	Count Data (Grabs)
	SC_RCK	BIOMASS	20930	D7	Biomass (Rocks)
Floodplain Lakes	FPL_BPN	BENTHOS	20930	C10	Count Data (Grabs)

Table 13
Water Quality Investigations

Study Type	File Name	File Type	Tape #	Appendix Ref.	Description
Borrow Pit	BP	WATERQTY	20930	E2	Hydrolab
Dike Field	DF	WATERQTY	20930	E3	Hydrolab/currents
Dike Pools	DFP	WATERQTY	20930	E4	Hydrolab/currents
	DFP_CHL	WATERQTY	20930	E5	Chlorophyll
Revetment	RV	WATERQTY	20930	E8	Hydrolab/currents
Eddies	EDDY	WATERQTY	20930	E6	Hydrolab/currents
Secondary Channels	SC	WATERQTY	20930	E9	Hydrolab/currents
Floodplain Lakes	FPL	WATERQTY	20930	E7	Hydrolab

Table 14
Sediment Investigations

Study Type	File Name	File Type	Tape #	Appendix Ref.	Description
Borrow Pit	BP	SEDIMENT	20930	F2	Grain Size
Dike Field	DF	SEDIMENT	20930	F3	Grain Size
Dike Pools	DFP	SEDIMENT	20930	F4	Grain Size
Revetment	RV	SEDIMENT	20930	F7	Grain Size
Eddies	EDDY	SEDIMENT	20930	F5	Grain Size
Secondary Channels	SC	SEDIMENT	20930	F8	Grain Size
Floodplain Lakes	FPL	SEDIMENT	20930	F6	Grain Size

Table 15
Wildlife and Vegetation Investigations

Study Type	File Name	File Type	Tape #	Appendix Ref.	Description
Forest Vegetation Data	HEADER	FOREST	10660	G5	Header Information
	TREES	FOREST	10660	G12	Diameter Measures
	SAPLINGS	FOREST	10660	G9	Sapling Counts
	SEEDLNGS	FOREST	10660	G10	Seedling Counts
	CANVINES	FOREST	10660	G3	Canopy Vine Counts
	GRNDCOVR	FOREST	10660	G4	Percent Cover
	STANDSUM	FOREST	10660	G11	Stand Summary
	DENSITY	TREES	10660	G15	Tree Densities
	BASAL	TREES	10660	G14	Basal Areas-Trees
	IV	TREES	10660	G17	Importance Values
	DENSITY	SAPLINGS	10660	G19	Sapling Density
	DENSITY	SEEDLNGS	10660	G21	Seedling Density
	DENSITY	SHRUBS	10660	G23	Shrub Density
	DENSITY	SHRBSEED	10660	G25	Shrub Seedling Density
	DENSITY	VINES	10660	G26	Vine Density
	COVER	GROUND	10660	G28	Percent Cover
	TREES	STAND	10660	G36	Density Importance Value, Basal Area
	SAPLINGS	STAND	10660	G32	Sapling Density
	SEEDLNGS	STAND	10660	G33	Seedling Density
	SHRUBS	STAND	10660	G35	Shrub Density
	SHRBSEED	STAND	10660	G34	Shrub Seedling Density
	VINES	STAND	10660	G37	Vine Density
	GRNDCOVR	STAND	10660	G31	Percent Cover
	FACTORS	HES	10660	G38	Overstory Factors
	COVRTYPE	STAND	10660	G30	Cover Type
	HEADER2	FOREST	10660	G6	GIS Site Variables
	FINALSUM	GROUND	10660	G29	Cover Summary
	FINALSUM	SAPLINGS	10660	G20	Sapling Summary
	FINALSUM	SEEDLNGS	10660	G22	Seedling Summary
	FINALSUM	SHRUBS	10660	G24	Shrub Summary
	FINALSUM	VINES	10660	G27	Vine Summary
	FINALSUM	TREES	10660	G16	Tree Summary
	HEADER3	FOREST	10660	G7	Combined Headers with Additional Information
Borrow Pit Wildlife Data	HEADER	BORROWPT	10660	G39	Header Information
	SPECIES1	BORROWPT	10660	G42	Counts (no zeros)
	SPECIES2	BORROWPT	10660	G43	Counts
	NESTING1	BORROWPT	10660	G40	Counts (no zeros)
	NESTING2	BORROWPT	10660	G41	Counts

(Continued)

Table 15 (Concluded)
Wildlife and Vegetation Investigations

Study Type	File Name	File Type	Tape #	Appendix Ref.	Description
Dike Field Wildlife Data	HEADER	DIKEFLD	10660	G45	Header Information
	SPECIES1	DIKEFLD	10660	G46	Counts (no zeros)
	SPECIES2	DIKEFLD	10660	G47	Counts
	DF_ACRES	BIRD	20930	--	CMS dataset
	DF_BIRDS	DATA	20930	--	CMS dataset
Revetment Vegetation Data	HEADER	REVET	10660	G50	Header Information
	GRNDCOVR	REVET	10660	G49	Percent Cover
	SEEDLING	REVET	10660	G51	Seedling Counts
	VINES	REVET	10660	G55	Vine Counts
	TREENUM	REVET	10660	G54	Tree Counts
	TREEDIAM	REVET	10660	G53	Tree Diameters
	TREECOVR	REVET	10660	G52	Percent Canopy

Table 16
Hydroacoustic Fishery Investigations

Study Type	File Name	File Type	Tape #	Appendix Ref.	Description
Dike Field Pools	DFP_TS	HYDROACU	18541	H3	Target Strength
	DFP_EG	HYDROACU	18541	H2	Echogram Data
Revetment	RV_TS	HYDROACU	18541	H5	Target Strength
	RV_EG	HYDROACU	18541	H4	Echogram Data
Secondary Channels	SC_TS	HYDROACU	18541	H7	Target Strength
	SC_EG	HYDROACU	18541	H6	Echogram Data

Table 17
Physical and Engineering Investigations

Study Type	File Name	File Type	Tape #	Appendix Ref.	Description
Dike Field	DF_PHYS	ENGRDATA	20930	--	Dike Measurements

Table 18
Plankton and Larval Fish Investigations

Study Type	File Name	File Type	Tape #	Appendix Ref.	Description
Eddy	LARFISH	EDDY	20930	I2	Larval Fish
Eddy	PLANKTON	EDDY	20930	I3	Plankton
Eddy	ZOOPLANK	EDDY	20930	I4	Zooplankton

Table 19
Contents of Tape Number 20930

File Name	File Type	Block Size	Number of Blocks	Last Update
BP	SEDIMENT	1024	22	2/14/92
DF	SEDIMENT	1024	86	2/14/92
DFP	SEDIMENT	1024	63	2/14/92
EDDY	SEDIMENT	1024	32	2/14/92
FPL	SEDIMENT	1024	22	2/14/92
RV	SEDIMENT	1024	32	2/14/92
SC	SEDIMENT	1024	32	2/14/92
BP	WATERQTY	1024	28	11/06/91
DF	WATERQTY	1024	193	11/06/91
DFP	WATERQTY	1024	172	11/06/91
DFP_CHL	WATERQTY	1024	22	2/14/92
EDDY	WATERQTY	1024	112	11/06/91
FPL	WATERQTY	1024	33	2/14/92
RV	WATERQTY	1024	190	11/06/91
SC	WATERQTY	1024	37	11/06/91
BP_BPN	BENTHOS	1024	222	11/06/91
DF_PLN	BENTHOS	1024	222	2/18/92
DF_RCK	BENTHOS	1024	103	11/06/91
DF_SHK	BENTHOS	1024	307	11/06/91
DFP_RCK	BENTHOS	1024	35	11/06/91
DFP_SHK	BENTHOS	1024	35	11/06/91
EDDY_PLN	BENTHOS	1024	311	2/18/92
EDDY_SHK	BENTHOS	1024	18	11/06/91
FPL_BPN	BENTHOS	1024	106	11/06/91
RV_ACB	BENTHOS	1024	41	11/06/91
RV_ACS	BENTHOS	1024	35	11/06/91
RV_HES	BENTHOS	1024	35	2/18/92
RV_JAR	BENTHOS	1024	18	2/18/92
RV_PLN	BENTHOS	1024	25	2/18/92
RV_SHK	BENTHOS	1024	52	11/06/91
RV_SNG	BENTHOS	1024	35	2/18/92
SC_BPN	BENTHOS	1024	18	11/06/91
SC_RCK	BENTHOS	1024	35	11/06/91
SC_SHK	BENTHOS	1024	69	11/06/91
BP_BPN	BIOMASS	1024	35	2/14/92
DF_SHK	BIOMASS	1024	52	11/06/91
RV_ACB	BIOMASS	1024	31	2/14/92
RV_ACS	BIOMASS	1024	15	11/06/91
RV_SNG	BIOMASS	1024	15	2/14/92
SC_RCK	BIOMASS	1024	11	2/14/92
BP_S_RTN	FSH_SUM	1024	261	11/06/91
DF_ES	FSH_SUM	1024	281	2/18/92
DF_GN	FSH_SUM	1024	101	2/18/92

(Continued)

Table 19 (Continued)
Contents of Tape Number 20930

File Name	File Type	Block Size	Number of Blocks	Last Update
DF_HN	FSH_SUM	1024	210	2/18/92
DF_RTN	FSH_SUM	1024	181	2/18/92
DF_SEIN	FSH_SUM	1024	161	2/18/92
DFP_ES	FSH_SUM	1024	157	2/18/92
DFP_GN	FSH_SUM	1024	64	2/18/92
DFP_SEIN	FSH_SUM	1024	197	2/18/92
RV_ES	FSH_SUM	1024	85	2/18/92
RV_HN	FSH_SUM	1024	32	2/18/92
RV_SEIN	FSH_SUM	1024	57	2/18/92
SC_ES	FSH_SUM	1024	97	2/18/92
SC_SEIN	FSH_SUM	1024	133	2/18/92
DF_ACRES	BIRD	80	20	11/07/91
DF_BIRD	DATA	80	30	11/07/91
DF_PHYS	ENGRDATA	80	41	11/08/91
LARFISH	EDDY	1024	157	11/06/91
PLANKTON	EDDY	1024	11	11/06/91
ZOOPLANK	EDDY	1024	29	11/06/91
0FORMATS	BENFMT	1024	240	3/09/92
BENFMT	TXTLIB	80	126	3/10/92
LMR_ALL	FLOOD	1024	316	11/22/91
M300_400	FLOOD	1024	1037	11/22/91
M400_500	FLOOD	1024	946	11/22/91
M500_600	FLOOD	1024	946	9/18/91
ALLDIKES	SEDDATA	1024	701	2/25/92
LWRP10	SEDDATA	1024	34	2/25/92
SANDBAR	SEDDATA	1024	81	2/25/92
ADDFMT	SAS	44	1	3/06/92
AREA4-5	SAS	65	1	9/18/91
AREA5-6	SAS	65	1	9/18/91
BENPGM83	SAS	80	9	9/12/91
BENTAX	SAS	80	8	9/12/91
BENTRAN	SAS	80	2	9/12/91
BEN83	SAS	80	20	9/12/91
BIRDS	SAS	80	18	9/12/91
CONTENTS	SAS	36	1	2/25/92
CON56	SAS	52	1	11/06/91
COPYIN	SAS	37	1	9/19/91
COPYOUT	SAS	37	1	9/18/91
CURRENT	SAS	80	3	9/12/91
C87UPD	SAS	80	2	11/21/91
C88UPD	SAS	80	1	11/21/91
C89UPD	SAS	80	2	11/21/91
C90UPD	SAS	80	2	11/21/91

(Continued)

Table 19 (Continued)
Contents of Tape Number 20930

File Name	File Type	Block Size	Number of Blocks	Last Update
DF_BIRD1	SAS	80	18	11/07/91
DF_GEOM1	SAS	80	6	11/07/91
DF_GEOM2	SAS	80	9	11/07/91
DIKESED	SAS	60	1	9/12/91
DIKESEL	SAS	80	3	9/12/91
DSKCPY	SAS	46	1	11/06/91
FISHLST	SAS	66	2	2/20/92
FISHOUT	SAS	65	1	9/12/91
FISHTAXA	SAS	80	2	9/12/91
FISH90	SAS	79	9	9/12/91
FLOODS	SAS	80	5	9/12/91
FMTV5V6	SAS	37	1	3/02/92
FOREST	SAS	80	4	9/12/91
FSELECT	SAS	80	9	9/12/91
FSHFMT	SAS	80	5	2/21/92
GAGE88	SAS	45	1	9/12/91
GENUS	SAS	80	20	9/12/91
IMPORT	SAS	80	1	9/12/91
LSUFISH	SAS	67	1	9/19/91
MEMENGR	SAS	80	9	9/12/91
MEMENGR2	SAS	80	6	9/12/91
MEMPHIS	SAS	70	4	9/12/91
MISSOUT	SAS	65	1	9/12/91
MRGAGE	SAS	66	3	9/12/91
MRGAGE2	SAS	66	3	9/12/91
MRGAGE60	SAS	26	1	9/12/91
MYTAPEIN	SAS	45	1	11/06/91
NOLIN	SAS	80	3	9/12/91
OPTION	SAS	80	1	9/12/91
ORNLBEN	SAS	80	2	9/12/91
PADDLE	SAS	80	3	9/12/91
PHYLUM	SAS	80	20	9/12/91
PRTUPD	SAS	80	2	11/21/91
READDIKE	SAS	80	4	9/12/91
REGBIRDS	SAS	80	10	9/12/91
SANDBAR	SAS	61	2	9/12/91
SPCUPD	SAS	80	2	11/19/91
START	SAS	35	1	3/06/92
TAPEIN	SAS	80	1	9/12/91
TAXAFMT	SAS	80	20	9/12/91
TRANS	SAS	53	1	9/12/91
TRANTEST	SAS	31	1	9/12/91
TREE	SAS	80	2	9/12/91

(Continued)

Table 19 (Concluded)
Contents of Tape Number 20930

File Name	File Type	Block Size	Number of Blocks	Last Update
TVATAB	SAS	79	10	9/12/91
TVATAB2	SAS	80	19	9/12/91
UPDFMT	SAS	48	1	3/06/92
VEG	SAS	80	7	9/12/91
VXDENGR1	SAS	80	12	9/12/91
V5TEMP	SAS	33	1	11/01/91
V5TOV6	SAS	70	1	2/25/92

Table 20
Contents of Tape Number 18541

File Name	File Type	Block Size	Number of Blocks	Last Update
BP_S_RTN	FISH	1024	865	2/18/92
BP_T_RTN	FISH	1024	9329	2/10/92
DF_ES	FISH	1024	495	2/26/92
DF_GN	FISH	1024	141	2/26/92
DF_HN	FISH	1024	131	11/12/91
DF_RTN	FISH	1024	5681	2/26/92
DF_SEIN	FISH	1024	547	2/26/92
DFP_ES	FISH	1024	276	2/26/92
DFP_GN	FISH	1024	103	2/26/92
DFP_SEIN	FISH	1024	757	2/26/92
DIK87RTN	FISH	1024	505	2/19/92
DIK88RTN	FISH	1024	286	2/19/92
DIK89RTN	FISH	1024	226	2/19/92
DIK90RTN	FISH	1024	451	2/19/92
FPL_ES	FISH	1024	106	2/18/92
FPL_GN	FISH	1024	176	2/18/92
FPL_RTN	FISH	1024	647	2/26/92
RV_ES	FISH	1024	201	2/18/92
RV_HN	FISH	1024	25	2/18/92
RV_SEIN	FISH	1024	141	11/12/91
SC_ES	FISH	1024	276	2/26/92
SC_SEIN	FISH	1024	337	2/18/92
BPFISH	DATA	90	5804	11/12/91
DFP_EG	HYDROACU	1024	417	11/12/91
DFP_TS	HYDROACU	1024	2534	11/12/91
RV_EG	HYDROACU	1024	371	11/12/91
RV_TS	HYDROACU	1024	603	11/12/91
SC_EG	HYDROACU	1024	61	2/11/92
SC_TS	HYDROACU	1024	371	2/11/92
0FORMATS	FSHFMT	1024	245	3/09/92
FSHFMT	TXTLIB	80	108	3/05/92
DIKE	ENGR	1024	61	11/22/91

Table 21
Contents of Tape Number 10660

File Name	File Type	Block Size	Number of Blocks	Last Update
BASAL	TREES	1024	1569	2/13/92
DENSITY	TREES	1024	1569	2/13/92
FINALSUM	TREES	1024	491	2/13/92
IV	TREES	1024	1361	2/13/92
CANVINES	FOREST	1024	50	2/13/92
GRNDCOVR	FOREST	1024	274	2/13/92
HEADER	FOREST	1024	209	2/13/92
HEADER2	FOREST	1024	61	2/13/92
HEADER3	FOREST	1024	378	2/20/92
SAPLINGS	FOREST	1024	127	2/13/92
SEEDLNGS	FOREST	1024	50	2/13/92
STANDSUM	FOREST	1024	51	2/13/92
TREES	FOREST	1024	1317	2/13/92
COVER	GROUND	1024	375	2/12/92
FINALSUM	GROUND	1024	127	2/13/92
COVRTYPE	STAND	1024	13	2/13/92
GRNDCOVR	STAND	1024	211	2/12/92
SAPLINGS	STAND	1024	71	2/12/92
SEEDLNGS	STAND	1024	57	2/12/92
SHRBSEED	STAND	1024	29	2/12/92
SHRUBS	STAND	1024	43	2/12/92
TREES	STAND	1024	1121	2/12/92
VINES	STAND	1024	169	2/12/92
DENSITY	SAPLINGS	1024	113	2/13/92
FINALSUM	SAPLINGS	1024	36	2/13/92
DENSITY	SEEDLNGS	1024	87	2/13/92
FINALSUM	SEEDLNGS	1024	31	2/12/92
DENSITY	SHRBSEED	1024	23	2/12/92
DENSITY	SHRUBS	1024	37	2/13/92
FINALSUM	SHRUBS	1024	19	2/12/92
DENSITY	VINES	1024	581	2/13/92
FINALSUM	VINES	1024	169	2/13/92
FACTORS	HES	1024	57	2/12/92
GRNDCOVR	REVET	1024	133	2/13/92
HEADER	REVET	1024	148	2/14/92
SEEDLING	REVET	1024	23	2/13/92
TREECOVR	REVET	1024	23	2/13/92
TREEDIAM	REVET	1024	19	2/13/92
TREENUM	REVET	1024	21	2/13/92
VINES	REVET	1024	23	2/13/92
HEADER	BORROWPT	1024	23	2/13/92
NESTING1	BORROWPT	1024	81	2/13/92
NESTING2	BORROWPT	1024	199	2/13/92

(Continued)

Table 21 (Concluded)
Contents of Tape Number 10660

File Name	File Type	Block Size	Number of Blocks	Last Update
SPECIES1	BORROWPT	1024	583	2/13/92
SPECIES2	BORROWPT	1024	2477	2/13/92
HEADER	DIKEFLD	1024	55	2/13/92
SPECIES1	DIKEFLD	1024	145	2/13/92
SPECIES2	DIKEFLD	1024	1135	2/13/92

Table 22
Lower Mississippi River Environmental Program
Report Status

Investigation Type	Number	Published
Levee Borrow Pit Fisheries/Benthos	1	Dec 1984
Levee Borrow Pit Physical Data	2	Feb 1988
Levee Borrow Pit Wildlife Data	3	Feb 1986
Levee Borrow Pit Environmental Design	4	Apr 1986
Dike System Hydrologic and Physical	5	Dec 1985
Floodplain Lake Ecological Survey	6	Feb 1987
Secondary Channel Investigations	7	Dec 1987
Revetment Eddy Investigation	8	Jan 1988
Revetment Ecological Investigations	9	Mar 1988
Dike System Bird Study	10	Nov 1987
Floodplain Forest Vegetation Study	11	Feb 1988
Dike System Pool Investigation	12	Apr 1988
Revetment Environmental Design	13	May 1988
LMREP Database Systems	14	Apr 1988
Revetted Bank Vegetation Study	15	Jul 1988
CERDS Users and Documentation Manual	17	Dec 1989
Dike System Epibenthic Fauna	18	Sep 1989
Revetment ACM Block Modifications	19	In Press
Floodplain Forest Resources	20	In Press

Table 23
LMREP Study Locations

Study Type	Location Code	Description	River Mile	Bank
Borrow Pit	P24	St. James Parish, LA	151	Left
	P25	Ascension Parish, LA	180	Left
	P20	Concordia Parish, LA	305	Right
	P22	Concordia Parish, LA	315	Right
	P18	Concordia Parish, LA	323	Right
	P16	Concordia Parish, LA	355	Right
	P12	Concordia, Tensas Parishes, LA	377	Right
	P02	Tensas Parish, LA	407	Right
	P01	Madison Parish, LA	431	Right
	P06	Madison Parish, LA	433	Right
	P10	Madison Parish, LA	456	Right
	P07	Warren County, MS	460	Left
	P05	East Carroll Parish, LA	462	Right
	P03	East Carroll Parish, LA	469	Right
	P04	East Carroll Parish, LA	482	Right
	P14	Desha County, AR	584	Right
	P08	Bolivar County, MS	593	Left
	P09	Bolivar County, MS	595	Left
	P11	Bolivar County, MS	602	Left
	P13	Phillips County, AR	656	Left
	P15	Coahoma County, MS	659	Left
	P23	Shelby County, TN	720	Left
	P17	Mississippi County, AR	733	Right
	P19	New Madrid County, MO	877	Right
	P21	New Madrid County, MO	881	Right
Revetment	RVN	Port Sulphur Revetment	43	Right
	NBN	Natural Bank: Port Sulphur	42	Left
	RVF	Fort Adams Revetment	310	Left
	RVN	Gibson Revetment	373	Right
	NBN	Natural Bank: Gibson Revetment	369	Right
	Note: Concatenation of the Location Code and River Mile gives a unique location ID.			
Secondary Channels	PCP	Profil Island	250	Left
	PCC	Cottonwood Bar	470	Left
	PCL	Lakeport Towhead	528	Left
	PCI	Island No. 8	915	Right
	PCW	Wolf Island Bar	935	Right
Eddy	EDT	Port Sulphur Revetment	43	Left
	EDB	White Castle Revetment	196	Right
	EDN	Gibson Revetment	373	Right

(Continued)

Table 23 (Continued)
LMREP Study Locations

Study Type	Location Code	Description	River Mile	Bank
Dike Pools	DFY	Ajax Bar	483	Right
	DFX	Stack Island	488	Right
Floodplain Lakes	RAC	Raccourci	287	Right
	DEE	Deer Park	341	Right
	YUC	Yucatan Lake	410	Right
	CAT	Catfish Chute	575	Left
	WHI	Whittington Lake	575	Left
	DRI	Drivers Bar	780	Left
	CRU	Crutcher Lake	780	Left
	CAN	Canadian Reach	796	Right
Dike Fields	D10	Waterproof	380	Right
	D09	Chicot Landing	566	Right
	D08	Island 70	609	Left
	D07	Island 62	640	Right
	D06	Montezuma Bar	656	Right
	D05	Porter Lake	702	Right
	D04	Redman Point-Robinson Crusoe	740	Right
	D03	Ashport-Golddust	796	Right
	D02	Forked Deer	800	Left
	D01	Kentucky Point	888	Left
Revetment Vegetation	H	Tropical Bend	30	Right
	G	Junior	52	Right
	I	Reserve	137	Left
	J	Romeville	161	Left
	K	New River Bend	184	Left
	L	Point Coupee	266	Right
	8	Boies Point	274	Right
	N	Coochie	316	Right
	D	Bougere Bend	328	Right
	O	Gibson	367	Right
	P	Kempe Bend	382	Right
	B	Delta Point	437	Right
	E	False Point	442	Right
	F	Milliken Bend	449	Right
	C	Carolina	507	Right
	6	Walnut Point-Kentucky Bend	516	Left
	9	Island 84	534	Right
	5	Eutaw-Mounds	559	Left
	4	Cypress Bend	566	Right
	3	Catfish Point	571	Left

(Continued)

Table 23 (Concluded)
LMREP Study Locations

Study Type	Location Code	Description	River Mile	Bank
Dike Field Wildlife	WATE	Waterproof	380	Right
	CHLA	Chicot Landing	566	Right
	ISSO	Island 70	609	Left
	ISST	Island 62	640	Right
	MOBA	Montezuma Bar	656	Left
	POLA	Porter Lake	702	Right
	RECR	Redman Point-Robinson Crusoe	740	Right
	ASGO	Ashport-Golddust	796	Right
	FODE	Forked Deer	800	Left
	KEPT	Kentucky Point	888	Left
Borrow Pit Vegetation & Wildlife	240	St. James Parish, LA	151	Left
	250	Ascension Parish, LA	180	Left
	201	Corcordia Parish, LA	305	Right
	202	Concordia Parish, LA	305	Right
	220	Concordia Parish, LA	315	Right
	180	Concordia Parish, LA	323	Right
	160	Concordia Parish, LA	355	Right
	120	Concordia, Tensas Parishes, LA	377	Right
	20	Tensas Parish, LA	407	Right
	10	Madison Parish, LA	431	Right
	60	Madison Parish, LA	433	Right
	100	Madison Parish, LA	456	Right
	70	Warren County, MS	460	Left
	50	East Carroll Parish, LA	462	Right
	30	East Carroll Parish, LA	469	Right
	40	East Carroll Parish, LA	482	Right
	140	Desha County, AR	584	Right
	80	Bolivar County, MS	593	Left
	90	Bolivar County, MS	595	Left
	110	Bolivar County, MS	602	Left
	130	Phillips County, AR	656	Left
	150	Coahoma County, MS	659	Left
	230	Shelby County, TN	720	Left
	170	Mississippi County, AR	733	Right
	190	New Madrid County, MO	877	Right
	210	New Madrid County, MO	881	Right

Table 24
LMREP Sampling Stations

Study Type	Station	Description
Borrow Pit	A1	Transect A: Levee Side of Borrow Pit
	A2	Transect A: Middle of Borrow Pit
	A3	Transect A: River Side of Borrow Pit
	B1	Transect B: Levee Side of Borrow Pit
	B2	Transect B: Middle of Borrow Pit
	B3	Transect B: River Side of Borrow Pit
Revetment	N01	Natural Bank: Approximately 10 meters out
	N02	Natural Bank: Approximately 50 meters out
	N03	Natural Bank: Approximately 100 meters out
	R01	Revetment: Approximately 10 meters out
	R02	Revetment: Approximately 50 meters out
	R03	Revetment: Approximately 100 meters out
	R11	Revetment: Approximately 10 meters out
	R21	Revetment: Approximately 10 meters out
	R31	Revetment: Approximately 10 meters out
	R41	Revetment: Approximately 10 meters out
	Dxx	Diver Station (xx - number)
Secondary Channels	A01	Up Stream Bank
	A02	Up Stream Channel
	A03	Up Stream Channel
	A04	Up Stream Towhead
	A05	Up Stream Towhead (main channel)
	B01	Down Stream Bank
	B02	Down Stream Channel
	B03	Down Stream Channel
	B04	Down Stream Towhead
	B05	Down Stream Towhead (main channel)
	Cxx	Secondary Channel (xx - number)
	Exx	Secondary Channel (xx - number)
	Gxx	Secondary Channel (xx - number)
	01	Bank Station
	02	Channel Station
	03	Channel Station
	04	Towhead Station
	05	Towhead (main channel side) Station

(Continued)

Table 24 (Concluded)
LMREP Sampling Stations

Study Type	Station	Description
Eddy	X	Tow: Slack Water Area of Eddy
	TB	Bottom Tow
	TM	Mid-depth Tow
	TS	Surface Tow
	Bxx	Eddy Station (xx - number)
	Cxx	Eddy Station (xx - number)
	Dxx	Eddy Station (xx - number)
	01	Approximately 5 meters out
	02	App. 10m, 12m, 25m for EDT, EDB, & EDN
	03	App. 15m, 18m, 75m for EDT, EDB, & EDN
	04	App. 20m, 25m, 90m for EDT, EDB, & EDN
Dike Field Pools	x01	Near Bank (x - transect letter)
	x02	In Pool
	x03	In Pool
	x04	In Pool
	x05	Near Sandbar
Floodplain Lakes	x10	Left Bank (x - transect letter)
	x50	Middle
	x90	Right Bank
Dike Fields	Note:	Station ID's are inconsistent. The Concatenation of the station and sample number gives a unique station ID. No replicates were taken.

Appendix A

Lower Mississippi River Environmental Program
Fishery Databases

Contents Procedure
SAS Data Library Directory

Page	Name	Library	Memtype	#Obs	Label
A2	BP_T_RTN	FISH	DATA	63526	Borrow Pit (Individual Fish): Rotenone
A3	BP_S_RTN	FISH	DATA	6156	Borrow Pit (Slot Categories): Rotenone
A4	DF_ES	FISH	DATA	3059	Dike Field Systems: Electroshocking
A5	DF_GN	FISH	DATA	947	Dike Field Systems: Gill Nets
A6	DF_HN	FISH	DATA	957	Dike Field Systems: Hoop Nets
A7	DF_RTN	FISH	DATA	40567	Dike Field Systems: Rotenone
A8	DF_SEIN	FISH	DATA	4243	Dike Field Systems: Seins
A9	DFP_ES	FISH	DATA	1739	Dike Field Pools: Electroshocking
A10	DFP_GN	FISH	DATA	695	Dike Field Pools: Gill Nets
A11	DFP_SEIN	FISH	DATA	5740	Dike Field Pools: Seins
A12	FPL_ES	FISH	DATA	574	Flood Plain Lakes: Electroshocking
A13	FPL_GN	FISH	DATA	1025	Flood Plain Lakes: Gill Nets
A14	FPL_RTN	FISH	DATA	2989	Flood Plain Lakes: Rotenone
A15	RV_ES	FISH	DATA	1236	Revetment: Electroshocking
A16	RV_HN	FISH	DATA	137	Revetment: Hoop Nets
A17	RV_SEIN	FISH	DATA	961	Revetment: Seins
A18	SC_ES	FISH	DATA	1715	Secondary Channels: Electroshocking
A19	SC_SEIN	FISH	DATA	2569	Secondary Channels: Seins
A20	DIK90RTN	FISH	DATA	1966	Dike Field: Rotenone (1990)
A21	DIK89RTN	FISH	DATA	970	Dike Field: Rotenone (1989)
A22	DIK88RTN	FISH	DATA	1253	Dike Field: Rotenone (1988)
A23	DIK87RTN	FISH	DATA	2236	Dike Field: Rotenone (1987)

Data Set Name:	FISH.BP_T_RTN	Observations:	63516
Member Type:	DATA	Variables:	16
Engine:	V606	Indexes:	0
Created:	14:16 Tuesday, November 12, 1991	Observation Length:	138
Last Modified:	14:16 Tuesday, November 12, 1991	Deleted Observations:	0
Label:	Borrow Pit (Individual Fish): Rotenone		

-----Engine/Host Dependent Information-----

Data Set Page Size:	22528
Number of Data Set Pages:	424
First Data Page:	1
Max Obs per Page:	150
Obs in First Data Page:	134
File :	BP_T_RTN FISH

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
1	BPIT	Char	3	0		Borrow Pit ID
11	DATE	Num	8	58	DATE7.	Sampling Start Date
3	GEAR	Char	4	5		One-ac Rotenone Plot
15	MAXLEN	Num	8	122		Upper 1-inch TL Category
5	MDEPTH	Num	8	17		Plot Mean Depth (M)
16	MINLEN	Num	8	130		Lower 1-inch TL Category
7	NUMBER	Num	8	33		Number Of Fish
14	PLOTSIZE	Num	8	114		Sample Plot Size (AC)
4	SHORLEN	Num	8	9		Plot Shoreline Length (M)
10	SLOT	Char	1	57		S=slotted TL (IN);I=Group WT(G)
6	SPECODE	Num	8	25		Taxonomic Code
2	STATION	Char	2	3		Pit Sample ID
13	TAXA	Char	40	74		Taxonomic or Common Name
12	TIME	Num	8	66	TIME8.	Time Rotenone Released
8	TOTLEN	Num	8	41		Total Length (MM); Slot (IN)
9	WEIGHT	Num	8	49		Fish Weight (G)

Data Set Name: FISH.BP_S_RTN
Member Type: DATA
Engine: V606
Created: 14:15 Tuesday, November 12, 1991
Last Modified: 14:15 Tuesday, November 12, 1991
Label: Borrow Pit (Slot Categories): Rotenone

Observations: 6156
Variables: 14
Indexes: 0
Observation Length: 129
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 16384
Number of Data Set Pages: 54
First Data Page: 1
Max Obs per Page: 116
Obs in First Data Page: 101
File : BP_S_RTN FISH

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
1	BPIT	Char	3	0		Borrow Pit ID
6	DATE	Num	8	61	DATE7.	Sampling Start Date
8	GEAR	Char	4	77		One-ac Rotenone Plot
10	MAXLEN	Num	8	89		Upper 1-inch TL Category
9	MDEPTH	Num	8	81		Plot Mean Depth (M)
4	MINLEN	Num	8	13		Lower 1-inch TL Category
13	NUMBER	Num	8	113		Number Of Fish
12	PLOTSIZE	Num	8	105		Sample Plot Size (AC)
11	SHORLEN	Num	8	97		Plot Shoreline Length (M)
3	SPECODE	Num	8	5		Taxonomic Code
2	STATION	Char	2	3		Pit Sample ID
5	TAXA	Char	40	21		Taxonomic or Common Name
7	TIME	Num	8	69	TIME8.	Time Rotenone Released
14	WEIGHT	Num	8	121		Fish Weight (G)

Data Set Name: FISH.DF_ES
Member Type: DATA
Engine: V606
Created: 14:18 Tuesday, November 12, 1991
Last Modified: 14:18 Tuesday, November 12, 1991
Label: Dike Field Systems: Electroshocking

Observations: 3059
Variables: 19
Indexes: 0
Observation Length: 152
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 13312
Number of Data Set Pages: 38
First Data Page: 1
Max Obs per Page: 81
Obs in First Data Page: 64
File : DF_ES FISH

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
9	AC_DC	Char	1	39		Alternating or Direct Current
11	AMPS	Num	8	48		Number of Amps
2	DATE	Num	8	3	DATE7.	Sampling Date
5	GEAR	Char	3	16		ES (Electro Shocking)
1	LOC	Char	3	0		Dike Field ID
7	MAXDEPTH	Num	8	23		Maximum Depth (meters)
16	NUMBER	Num	8	88		Number of Fish
12	PUL_SEC	Num	8	56		Pulse per Second
13	PUL_WDT	Num	8	64		Pulse Width
8	SAMDEPTH	Num	8	31		Sample Depth (meters)
4	SAMPNO	Char	2	14		Sample Number
14	SEC_FSHD	Num	8	72		Seconds Fished
15	SPECODE	Num	8	80		Taxonomic Code
3	STATION	Char	3	11		Sampling Station ID
19	TAXA	Char	40	112		Taxonomic or Common Name
6	TIME_IN	Char	4	19		Start Time of Sampling Effort
17	TL	Num	8	96		Total Length (MM)
10	VOLTS	Num	8	40		Number of Volts
18	WT	Num	8	104		Total Weight (grams)

Data Set Name: FISH.DF_GN
Member Type: DATA
Engine: V606
Created: 14:18 Tuesday, November 12, 1991
Last Modified: 14:18 Tuesday, November 12, 1991
Label: Dike Field Systems: Gill Nets

Observations: 947
Variables: 16
Indexes: 0
Observation Length: 131
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 20480
Number of Data Set Pages: 7
First Data Page: 1
Max Obs per Page: 143
Obs in First Data Page: 127
File : DF_GN FISH

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
11	CURRENT	Num	8	51		Current Speed (cm/sec)
2	DATE	Num	8	3	DATE7.	Sampling Date
9	DAY_OUT	Num	8	39		Stop Day of Sampling Effort
5	GEAR	Char	3	16		GN (Gill Nets)
1	LOC	Char	3	0		Dike Field ID
7	MAXDEPTH	Num	8	23		Maximum Depth (meters)
13	NUMBER	Num	8	67		Number of Fish
8	SAMDEPTH	Num	8	31		Sample Depth (meters)
4	SAMPNO	Char	2	14		Sample Number
12	SPECODE	Num	8	59		Taxonomic Code
3	STATION	Char	3	11		Sampling Station ID
16	TAXA	Char	40	91		Taxonomic or Common Name
6	TIME_IN	Char	4	19		Start Time of Sampling Effort
10	TIME_OUT	Char	4	47		Stop Time of Sampling Effort
14	TL	Num	8	75		Total Length (MM)
15	WT	Num	8	83		Total Weight (grams)

Data Set Name: FISH.DF_HN
Member Type: DATA
Engine: V606
Created: 14:18 Tuesday, November 12, 1991
Last Modified: 14:18 Tuesday, November 12, 1991
Label: Dike Field Systems: Hoop Nets

Observations: 957
Variables: 15
Indexes: 0
Observation Length: 123
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 26624
Number of Data Set Pages: 5
First Data Page: 1
Max Obs per Page: 197
Obs in First Data Page: 180
File : DF_HN FISH

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
10	CURRENT	Num	8	43		Current Speed (cm/sec)
2	DATE	Num	8	3	DATE7.	Sampling Date
8	DAY_OUT	Num	8	31		Stop Day of Sampling Effort
5	GEAR	Char	3	16		HN (Hoop Nets)
1	LOC	Char	3	0		Dike Field ID
12	NUMBER	Num	8	59		Number of Fish
7	SAMDEPTH	Num	8	23		Sample Depth (meters)
4	SAMPNO	Char	2	14		Sample Number
11	SPECODE	Num	8	51		Taxonomic Code
3	STATION	Char	3	11		Sampling Station ID
15	TAXA	Char	40	83		Taxonomic or Common Name
6	TIME_IN	Char	4	19		Start Time of Sampling Effort
9	TIME_OUT	Char	4	39		Stop Time of Sampling Effort
13	TL	Num	8	67		Total Length (MM)
14	WT	Num	8	75		Total Weight (grams)

Data Set Name:	FISH.DF_RTN	Observations:	40567
Member Type:	DATA	Variables:	16
Engine:	V606	Indexes:	0
Created:	14:18 Tuesday, November 12, 1991	Observation Length:	131
Last Modified:	14:18 Tuesday, November 12, 1991	Deleted Observations:	0
Label:	Dike Field Systems: Rotenone		

-----Engine/Host Dependent Information-----

Data Set Page Size:	20480
Number of Data Set Pages:	284
First Data Page:	1
Max Obs per Page:	143
Obs in First Data Page:	127
File :	DF_RTN FISH

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
11	CURRENT	Num	8	51		Current Speed (cm/sec)
2	DATE	Num	8	3	DATE7.	Sampling Date
9	DAY_OUT	Num	8	39		Stop Day of Sampling Effort
5	GEAR	Char	3	16		RTN (Rotenone)
1	LOC	Char	3	0		Dike Field ID
7	MAXDEPTH	Num	8	23		Maximum Depth (meters)
13	NUMBER	Num	8	67		Number of Fish
8	SAMDEPTH	Num	8	31		Sample Depth (meters)
4	SAMPNO	Char	2	14		Sample Number
12	SPECODE	Num	8	59		Taxonomic Code
3	STATION	Char	3	11		Sampling Station ID
16	TAXA	Char	40	91		Taxonomic or Common Name
6	TIME_IN	Char	4	19		Start Time of Sampling Effort
10	TIME_OUT	Char	4	47		Stop Time of Sampling Effort
14	TL	Num	8	75		Total Length (MM)
15	WT	Num	8	83		Total Weight (grams)

Data Set Name:	FISH.DF_SEIN	Observations:	4243
Member Type:	DATA	Variables:	14
Engine:	V606	Indexes:	0
Created:	14:20 Tuesday, November 12, 1991	Observation Length:	119
Last Modified:	14:20 Tuesday, November 12, 1991	Deleted Observations:	0
Label:	Dike Field Systems: Seins		

-----Engine/Host Dependent Information-----

Data Set Page Size:	26624
Number of Data Set Pages:	21
First Data Page:	1
Max Obs per Page:	203
Obs in First Data Page:	187
File :	DF_SEIN FISH

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
9	CURRENT	Num	8	39		Current Speed (cm/sec)
2	DATE	Num	8	3	DATE7.	Sampling Date
5	GEAR	Char	3	16		SN (Sein)
1	LOC	Char	3	0		Dike Field ID
7	MAXDEPTH	Num	8	23		Maximum Depth (meters)
11	NUMBER	Num	8	55		Number of Fish
8	SAMDEPTH	Num	8	31		Sample Depth (meters)
4	SAMPNO	Char	2	14		Sample Number
10	SPECODE	Num	8	47		Taxonomic Code
3	STATION	Char	3	11		Sampling Station ID
14	TAXA	Char	40	79		Taxonomic or Common Name
6	TIME_IN	Char	4	19		Start Time of Sampling Effort
12	TL	Num	8	63		Total Length (MM)
13	WT	Num	8	71		Total Weight (grams)

Data Set Name: FISH.DFP_ES
Member Type: DATA
Engine: V606
Created: 14:20 Tuesday, November 12, 1991
Last Modified: 14:20 Tuesday, November 12, 1991
Label: Dike Field Pools: Electroshocking

Observations: 1739
Variables: 19
Indexes: 0
Observation Length: 147
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 5120
Number of Data Set Pages: 55
First Data Page: 1
Max Obs per Page: 32
Obs in First Data Page: 15
File : DFP_ES FISH

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
9	AC_DC	Char	2	40		Alternating or Direct Current
11	AMPS	Num	8	50		Number of Amps
1	DATE	Num	8	0	DATE7.	Sampling Date
5	GEAR	Char	4	16		ES (Electro Shocking)
2	LOC	Char	3	8		Dike Field Pool ID
7	MAXDEPTH	Num	8	24		Maximum Depth (meters)
16	NUMBER	Num	8	83		Number of Fish
12	PUL_SEC	Num	8	58		Pulse per Second
13	PUL_WDT	Char	1	66		Pulse Width
8	SAMDEPTH	Num	8	32		Sample Depth (meters)
4	SAMPNO	Char	2	14		Sample Number
14	SEC_FSHD	Num	8	67		Seconds Fished
15	SPECODE	Num	8	75		Taxonomic Code
3	STATION	Char	3	11		Sampling Station ID
19	TAXA	Char	40	107		Taxonomic or Common Name
6	TIME_IN	Char	4	20		Start Time of Sampling Effort
17	TL	Num	8	91		Total Length (MM)
10	VOLTS	Num	8	42		Number of Volts
18	WT	Num	8	99		Total Weight (grams)

Data Set Name: FISH.DFP_GN
Member Type: DATA
Engine: V606
Created: 14:20 Tuesday, November 12, 1991
Last Modified: 14:20 Tuesday, November 12, 1991
Label: Dike Field Pools: Gill Net

Observations: 695
Variables: 16
Indexes: 0
Observation Length: 132
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 2048
Number of Data Set Pages: 51
First Data Page: 2
Max Obs per Page: 14
Obs in First Data Page: 11
File : DFP_GN FISH

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
16	CURRENT	Num	8	124		Current Speed (cm/sec)
1	DATE	Num	8	0	DATE7.	Sampling Date
9	DAY_OUT	Num	8	40		Stop Date of Sampling Effort
5	GEAR	Char	4	16		Gill Net (EG8)
2	LOC	Char	3	8		Dike Field Pool ID
7	MAXDEPTH	Num	8	24		Maximum Depth (meters)
12	NUMBER	Num	8	60		Number of Fish
8	SAMDEPTH	Num	8	32		Sample Depth (meters)
4	SAMPNO	Char	2	14		Sample Number
11	SPECODE	Num	8	52		Taxonomic Code
3	STATION	Char	3	11		Sampling Station ID
15	TAXA	Char	40	84		Taxonomic or Common Name
6	TIME_IN	Char	4	20		Start Time of Sampling Effort
10	TIME_OUT	Char	4	48		Stop Time of Sampling Effort
13	TL	Num	8	68		Total Length (MM)
14	WT	Num	8	76		Total Weight (grams)

Data Set Name: FISH.DFP_SEIN
Member Type: DATA
Engine: V606
Created: 14:20 Tuesday, November 12, 1991
Last Modified: 14:20 Tuesday, November 12, 1991
Label: Dike Field Pools: Seins

Observations: 5740
Variables: 14
Indexes: 0
Observation Length: 120
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 28672
Number of Data Set Pages: 27
First Data Page: 1
Max Obs per Page: 217
Obs in First Data Page: 201
File : DFP_SEIN FISH

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
7	CURRENT	Num	8	24		Current Speed (cm/sec)
1	DATE	Num	8	0	DATE7.	Sampling Date
5	GEAR	Char	4	16		Sein (S15)
2	LOC	Char	3	8		Dike Field Pool ID
8	MAXDEPTH	Num	8	32		Maximum Depth (meters)
10	NUMBER	Num	8	48		Number of Fish
14	SAMDEPTH	Num	8	112		Sample Depth (meters)
4	SAMPNO	Char	2	14		Sample Number
9	SPECODE	Num	8	40		Taxonomic Code
3	STATION	Char	3	11		Sampling Station ID
13	TAXA	Char	40	72		Taxonomic or Common Name
6	TIME_IN	Char	4	20		Start Time of Sampling Effort
11	TL	Num	8	56		Total Length (MM)
12	WT	Num	8	64		Total Weight (grams)

Data Set Name: FISH.FPL_ES
Member Type: DATA
Engine: V606
Created: 14:20 Tuesday, November 12, 1991
Last Modified: 14:20 Tuesday, November 12, 1991
Label: Flood Plain Lakes: Electroshocking

Observations: 574
Variables: 20
Indexes: 0
Observation Length: 158
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 7168
Number of Data Set Pages: 15
First Data Page: 1
Max Obs per Page: 42
Obs in First Data Page: 25
File : FPL_ES FISH

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
3	DATE	Num	8	16	DATE7.	Sampling Date
10	EFFORT	Char	3	72		Length of Sampling Effort in meters
16	FGROUP	Num	8	134		Fish Group, Sport(1) Rough(2) Forage(3)
17	FOODSRC	Char	2	142		TVA Code
20	GEAR	Char	3	155		ES (Electroshock)
9	HAULS	Num	8	64		Number of Hauls or Runs on Field Form
11	L_CODE	Char	1	75		Length Code of Fish, M->mm, I->inches
1	LENGTH	Num	8	0		Individual Fish Length
19	LOC	Char	3	152		Flood Plain Lake ID
14	LOCATION	Char	16	85		Sampling Station ID
5	MILE	Num	8	32		River Mile
6	NET_NO	Num	8	40		Net or Electrofishing Run Number
4	NUMBER	Num	8	24		Total Catch of a Species in a Net/Run
18	SPECODE	Num	8	144		Taxonomic Code
15	TAXA	Char	33	101		Taxonomic or Common name
7	TIME_IN	Num	8	48		Time Sampling Began
8	TIME_OUT	Num	8	56		Time Sampling Ended
12	W_CODE	Char	1	76		Weight Code, G->grams, L->pounds
13	WATER_T	Num	8	77		Water Temperature, Centigrade
2	WEIGHT	Num	8	8		Individual Fish Weight

Data Set Name:	FISH.FPL_GN	Observations:	1025
Member Type:	DATA	Variables:	20
Engine:	V606	Indexes:	0
Created:	14:20 Tuesday, November 12, 1991	Observation Length:	158
Last Modified:	14:20 Tuesday, November 12, 1991	Deleted Observations:	0
Label:	Flood Plain Lakes: Gill Nets		

-----Engine/Host Dependent Information-----

Data Set Page Size:	7168
Number of Data Set Pages:	25
First Data Page:	1
Max Obs per Page:	42
Obs in First Data Page:	25
File :	FPL_GN FISH

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
3	DATE	Num	8	16	DATE7.	Sampling Date
10	EFFORT	Char	3	72		Length of Sampling Effort in Meters
16	FGROUP	Num	8	134		Fish Group, Sport(1) Rough(2) Forage(3)
17	FOODSRC	Char	2	142		TVA Code
20	GEAR	Char	3	155		GN (Gill Net)
9	HAULS	Num	8	64		Number of Hauls or Runs on Field Form
11	L_CODE	Char	1	75		Length Code of Fish, M->mm, I->inches
1	LENGTH	Num	8	0		Individual Fish Length
19	LOC	Char	3	152		Flood Plain Lake ID
14	LOCATION	Char	16	85		Sampling Location
5	MILE	Num	8	32		River Mile
6	NET_NO	Num	8	40		Net or Electrofishing Run Number
4	NUMBER	Num	8	24		Total Catch of a Species in a Net/Run
18	SPECODE	Num	8	144		Taxonomic Code
15	TAXA	Char	33	101		Taxonomic or Common name
7	TIME_IN	Num	8	48		Time Sampling Began
8	TIME_OUT	Num	8	56		Time Sampling Ended
12	W_CODE	Char	1	76		Weight Code, G->grams, L->pounds
13	WATER_T	Num	8	77		Water Temperature, Centigrade
2	WEIGHT	Num	8	8		Individual Fish Weight

Data Set Name: FISH.FPL_RTN
Member Type: DATA
Engine: V606
Created: 14:20 Tuesday, November 12, 1991
Last Modified: 14:20 Tuesday, November 12, 1991
Label: Flood Plain Lakes: Rotenone

Observations: 2989
Variables: 23
Indexes: 0
Observation Length: 208
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 17408
Number of Data Set Pages: 39
First Data Page: 1
Max Obs per Page: 79
Obs in First Data Page: 64
File : FPL_RTN FISH

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
2	COVE	Num	8	8		Site Number
21	DATE	Num	8	194	DATE7.	Sampling Date
13	FGROUP	Num	8	123		Fish Group, Sport(1) Rough(2) Forage(3)
15	FISH_HA	Num	8	139		Number of Fish per Hectare
23	GEAR	Char	3	205		RTN (Rotenone)
16	GENCODE	Char	1	147		Weight(1) or Numbers(2) Generated
7	GRID	Char	12	48		Grid Code
17	HCLASS	Char	5	148		Harvest Class, Young, Inter., Adult
3	HECTAR	Num	8	16		Size of Cove
14	KG_HA	Num	8	131	10.3	Weight of Fish in Kilograms per Hectare
8	LENUNIT	Num	8	60		Length Unit, inch(1) mm(2)
22	LOC	Char	3	202		Flood Plain Lake ID
19	LOCATION	Char	25	161		Sampling Location
10	MAXLEN	Num	8	76		Maximum Length
18	MILE	Num	8	153		River Mile
11	MINLEN	Num	8	84		Minimum Length
4	MNDEPTH	Num	8	24		Mean Depth
5	MXDEPTH	Num	8	32		Maximum Depth
9	PICKUP_D	Num	8	68		Pickup Day
1	SAMPLE	Num	8	0		Sample Number
6	SMPLTYPE	Num	8	40		Habitat Type
20	SPECODE	Num	8	186		Taxonomic Code
12	TAXA	Char	31	92		Taxonomic or Common name

Data Set Name: FISH.RV_ES
Member Type: DATA
Engine: V606
Created: 14:21 Tuesday, November 12, 1991
Last Modified: 14:21 Tuesday, November 12, 1991
Label: Revetment: Electroshocking

Observations: 1236
Variables: 19
Indexes: 0
Observation Length: 147
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 5120
Number of Data Set Pages: 40
First Data Page: 1
Max Obs per Page: 32
Obs in First Data Page: 15
File : RV_ES FISH

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
9	AC_DC	Char	2	40		Alternating or Direct Current
11	AMPS	Num	8	50		Number of Amps
1	DATE	Num	8	0	DATE7.	Sampling Date
5	GEAR	Char	4	16		ES (Electro Shocking)
2	LOC	Char	3	8		Revetment ID
7	MAXDEPTH	Num	8	24		Maximum Depth (meters)
16	NUMBER	Num	8	83		Number of Fish
12	PUL_SEC	Num	8	58		Pulse per Second
13	PUL_WDT	Char	1	66		Pulse Width
8	SAMDEPTH	Num	8	32		Sample Depth (meters)
4	SAMPNO	Char	2	14		Sample Number
14	SEC_FSHD	Num	8	67		Seconds Fished
15	SPECODE	Num	8	75		Taxonomic Code
3	STATION	Char	3	11		Sampling Station ID
19	TAXA	Char	40	107		Taxonomic or Common Name
6	TIME_IN	Char	4	20		Start Time of Sampling Effort
17	TL	Num	8	91		Total Length (MM)
10	VOLTS	Num	8	42		Number of Volts
18	WT	Num	8	99		Total Weight (grams)

Data Set Name: FISH.RV_HN
Member Type: DATA
Engine: V606
Created: 14:21 Tuesday, November 12, 1991
Last Modified: 14:21 Tuesday, November 12, 1991
Label: Revetment: Hoop Nets

Observations: 137
Variables: 15
Indexes: 0
Observation Length: 124
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 8192
Number of Data Set Pages: 3
First Data Page: 1
Max Obs per Page: 60
Obs in First Data Page: 44
File : RV_HN FISH

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
15	CURRENT	Num	8	116		Current Speed (cm/sec)
1	DATE	Num	8	0	DATE7.	Sampling Date
8	DAY_OUT	Num	8	32		Stop Day of Sampling Effort
5	GEAR	Char	4	16		Hoop Net (HN3)
2	LOC	Char	3	8		Revetment Id
11	NUMBER	Num	8	52		Number of Fish
7	SAMDEPTH	Num	8	24		Sample Depth (meters)
4	SAMPNO	Char	2	14		Sample Number
10	SPECODE	Num	8	44		Taxonomic Code
3	STATION	Char	3	11		Sampling Station ID
14	TAXA	Char	40	76		Taxonomic or Common Name
6	TIME_IN	Char	4	20		Start Time of Sampling Effort
9	TIME_OUT	Char	4	40		Stop Time of Sampling Effort
12	TL	Num	8	60		Total Length (MM)
13	WT	Num	8	68		Total Weight (grams)

Data Set Name: FISH.RV_SEIN
Member Type: DATA
Engine: V606
Created: 14:21 Tuesday, November 12, 1991
Last Modified: 14:21 Tuesday, November 12, 1991
Label: Revetment: Seins

Observations: 961
Variables: 14
Indexes: 0
Observation Length: 120
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 28672
Number of Data Set Pages: 5
First Data Page: 1
Max Obs per Page: 217
Obs in First Data Page: 201
File : RV_SEIN FISH

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
7	CURRENT	Num	8	24		Current Speed (cm/sec)
1	DATE	Num	8	0	DATE7.	Sampling Date
5	GEAR	Char	4	16		Seins (S10, S15, S20)
2	LOC	Char	3	8		Revetment Id
8	MAXDEPTH	Num	8	32		Maximum Depth (meters)
10	NUMBER	Num	8	48		Number of Fish
14	SAMDEPTH	Num	8	112		Sample Depth (meters)
4	SAMPNO	Char	2	14		Sample Number
9	SPECODE	Num	8	40		Taxonomic Code
3	STATION	Char	3	11		Sampling Station ID
13	TAXA	Char	40	72		Taxonomic or Common Name
6	TIME_IN	Char	4	20		Start Time of Sampling Effort
11	TL	Num	8	56		Total Length (MM)
12	WT	Num	8	64		Total Weight (grams)

Data Set Name: FISH.SC_ES
Member Type: DATA
Engine: V606
Created: 14:21 Tuesday, November 12, 1991
Last Modified: 14:21 Tuesday, November 12, 1991
Label: Secondary Channels: Electroshocking

Observations: 1715
Variables: 19
Indexes: 0
Observation Length: 147
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 5120
Number of Data Set Pages: 55
First Data Page: 1
Max Obs per Page: 32
Obs in First Data Page: 15
File : SC_ES FISH

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
9	AC_DC	Char	2	40		Alternating or Direct Current
11	AMPS	Num	8	50		Number of Amps
1	DATE	Num	8	0	DATE7.	Sampling Date
5	GEAR	Char	4	16		ES (Electro Shocking)
2	LOC	Char	3	8		Secondary Channel ID
7	MAXDEPTH	Num	8	24		Maximum Depth (meters)
16	NUMBER	Num	8	83		Number of Fish
12	PUL_SEC	Num	8	58		Pulse per Second
13	PUL_WDT	Char	1	66		Pulse Width
8	SAMDEPTH	Num	8	32		Sample Depth (meters)
4	SAMPNO	Char	2	14		Sample Number
14	SEC_FSHD	Num	8	67		Seconds Fished
15	SPECODE	Num	8	75		Taxonomic Code
3	STATION	Char	3	11		Sampling Station ID
19	TAXA	Char	40	107		Taxonomic or Common Name
6	TIME_IN	Char	4	20		Start Time of Sampling Effort
17	TL	Num	8	91		Total Length (MM)
10	VOLTS	Num	8	42		Number of Volts
18	WT	Num	8	99		Total Weight (grams)

Data Set Name: FISH.SC_SEIN
Member Type: DATA
Engine: V606
Created: 14:21 Tuesday, November 12, 1991
Last Modified: 14:21 Tuesday, November 12, 1991
Label: Secondary Channel: Seins

Observations: 2569
Variables: 13
Indexes: 0
Observation Length: 112
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 28672
Number of Data Set Pages: 12
First Data Page: 1
Max Obs per Page: 231
Obs in First Data Page: 215
File : SC_SEIN FISH

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
7	CURRENT	Num	8	24		Current Speed (cm/sec)
1	DATE	Num	8	0	DATE7.	Sampling Date
5	GEAR	Char	4	16		Sein (S15)
2	LOC	Char	3	8		Secondary Channel ID
8	MAXDEPTH	Num	8	32		Maximum Depth (meters)
10	NUMBER	Num	8	48		Number of Fish
4	SAMPNO	Char	2	14		Sample Number
9	SPECODE	Num	8	40		Taxonomic Code
3	STATION	Char	3	11		Sampling Station ID
13	TAXA	Char	40	72		Taxonomic or Common Name
6	TIME_IN	Char	4	20		Start Time of Sampling Effort
11	TL	Num	8	56		Total Length (MM)
12	WT	Num	8	64		Total Weight (grams)

Data Set Name: FISH.DIK90RTN
Member Type: DATA
Engine: V606
Created: 16:44 Tuesday, February 18, 1992
Last Modified: 16:44 Tuesday, February 18, 1992
Label: Dike Field: Rotenone (1990)

Observations: 1966
Variables: 25
Indexes: 0
Observation Length: 218
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 18432
Number of Data Set Pages: 25
First Data Page: 1
Max Obs per Page: 80
Obs in First Data Page: 65
File : DIK90RTN FISH

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
2	COVE	Num	3	4		Site Number
4	DAY	Num	3	10		Day of Month
15	FGROUP	Num	8	123		Fish Group, Sport(1) Rough(2) Forage(3)
17	FISH_HA	Num	8	139		Number of Fish per Hectare
18	GENCODE	Char	1	147		Weight(1) or Numbers(2) Generated
20	GRID	Char	12	153		Grid Code
19	HCLASS	Char	5	148		Harvest Class, Young, Inter., Adult
7	HECTAR	Num	5	21		Size of Cove
16	KG_HA	Num	8	131	10.3	Weight of Fish in Kilograms per Hectare
8	LENUNIT	Num	8	26		Length Unit, Inch(1) MM(2)
25	LOC	Char	30	188	$CHAR30.	Dike System Location
11	MAXLEN	Num	8	45		Maximum Length
12	MINLEN	Num	8	53		Minimum Length
22	MNDEPTH	Num	5	170		Mean Depth
3	MONTH	Num	3	7		Month of Sample
23	MXDEPTH	Num	5	175		Maximum Depth
10	PICKUP_D	Num	3	42		Pickup Day
6	RIVCODE	Num	5	16		River Code, TVA
21	RIVMILE	Num	5	165		River Mile
1	SAMPLE	Num	4	0		Sample Number
14	SCNAME	Char	31	92		Scientific Name of Fish
9	SPECIES	Num	8	34		Species Code(TVA 8-Digit)
24	SPECODE	Num	8	180		Taxonomic Code
13	TAXA	Char	31	61		Taxonomic or Common Name
5	YEAR	Num	3	13		Year of Sample

Data Set Name: FISH.DIK89RTN
Member Type: DATA
Engine: V606
Created: 16:12 Thursday, November 21, 1991
Last Modified: 16:12 Thursday, November 21, 1991
Label: Dike Field: Rotenone (1989)

Observations: 970
Variables: 25
Indexes: 0
Observation Length: 207
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 15360
Number of Data Set Pages: 15
First Data Page: 1
Max Obs per Page: 70
Obs in First Data Page: 54
File : DIK89RTN FISH

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
2	COVE	Num	2	3		SITE NUMBER
4	DAY	Num	2	7		DAY OF MONTH
15	FGROUP	Num	8	115		FISH GROUP, SPORT(1) ROUGH(2) FORAGE(3)
17	FISH_HA	Num	8	131		NUMBER OF FISH PER HECTARE
18	GENCODE	Char	1	139		WEIGHT(1) OR NUMBERS(2) GENERATED
20	GRID	Char	12	145		GRID CODE
19	HCLASS	Char	5	140		HARVEST CLASS, YOUNG, INTER., ADULT
7	HECTAR	Num	4	15		SIZE OF COVE
16	KG_HA	Num	8	123	10.3	WEIGHT OF FISH IN KILOGRAMS PER HECTARE
8	LENUNIT	Num	8	19		LENGTH UNIT, INCH(1) MM(2)
25	LOC	Char	30	177	$30.	DIKE SYSTEM LOCATION
11	MAXLEN	Num	8	37		MAXIMUM LENGTH
12	MINLEN	Num	8	45		MINIMUM LENGTH
22	MNDEPTH	Num	4	161		MEAN DEPTH
3	MONTH	Num	2	5		MONTH OF SAMPLE
23	MXDEPTH	Num	4	165		MAXIMUM DEPTH
10	PICKUP_D	Num	2	35		PICKUP DAY
6	RIVCODE	Num	4	11		RIVER CODE, TVA
21	RIVMILE	Num	4	157		RIVER MILE
1	SAMPLE	Num	3	0		SAMPLE NUMBER
14	SCNAME	Char	31	84		SCIENTIFIC NAME OF FISH
9	SPECIES	Num	8	27		SPECIES CODE(TVA 8-DIGIT)
24	SPECODE	Num	8	169		TAXONOMIC CODE
13	TAXA	Char	31	53		TAXONOMIC OR COMMON NAME
5	YEAR	Num	2	9		YEAR OF SAMPLE

Data Set Name: FISH.DIK88RTN
Member Type: DATA
Engine: V606
Created: 16:04 Thursday, November 21, 1991
Last Modified: 16:04 Thursday, November 21, 1991
Label: Dike Field: Rotenone (1988)

Observations: 1253
Variables: 25
Indexes: 0
Observation Length: 207
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 15360
Number of Data Set Pages: 19
First Data Page: 1
Max Obs per Page: 70
Obs in First Data Page: 54
File : DIK88RTN FISH

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
2	COVE	Num	2	3		SITE NUMBER
4	DAY	Num	2	7		DAY OF MONTH
15	FGROUP	Num	8	115		FISH GROUP, SPORT(1) ROUGH(2) FORAGE(3)
17	FISH_HA	Num	8	131		NUMBER OF FISH PER HECTARE
18	GENCODE	Char	1	139		WEIGHT(1) OR NUMBERS(2) GENERATED
20	GRID	Char	12	145		GRID CODE
19	HCLASS	Char	5	140		HARVEST CLASS, YOUNG, INTER., ADULT
7	HECTAR	Num	4	15		SIZE OF COVE
16	KG_HA	Num	8	123	10.3	WEIGHT OF FISH IN KILOGRAMS PER HECTARE
8	LENUNIT	Num	8	19		LENGTH UNIT, INCH(1) MM(2)
25	LOC	Char	30	177		DIKE SYSTEM LOCATION
11	MAXLEN	Num	8	37		MAXIMUM LENGTH
12	MINLEN	Num	8	45		MINIMUM LENGTH
22	MNDEPTH	Num	4	161		MEAN DEPTH
3	MONTH	Num	2	5		MONTH OF SAMPLE
23	MXDEPTH	Num	4	165		MAXIMUM DEPTH
10	PICKUP_D	Num	2	35		PICKUP DAY
6	RIVCODE	Num	4	11		RIVER CODE, TVA
21	RIVMILE	Num	4	157		RIVER MILE
1	SAMPLE	Num	3	0		SAMPLE NUMBER
14	SCNAME	Char	31	84		SCIENTIFIC NAME OF FISH
9	SPECIES	Num	8	27		SPECIES CODE(TVA 8-DIGIT)
24	SPECODE	Num	8	169		TAXONOMIC CODE
13	TAXA	Char	31	53		TAXONOMIC OR COMMON NAME
15	YEAR	Num	2	9		YEAR OF SAMPLE

Data Set Name:	FISH.DIK87RTN	Observations:	2236
Member Type:	DATA	Variables:	25
Engine:	V606	Indexes:	0
Created:	15:32 Thursday, November 21, 1991	Observation Length:	215
Last Modified:	15:32 Thursday, November 21, 1991	Deleted Observations:	0
Label:	Dike Field: Rotenone (1987)		

-----Engine/Host Dependent Information-----

Data Set Page Size:	12288
Number of Data Set Pages:	42
First Data Page:	1
Max Obs per Page:	54
Obs in First Data Page:	39
File :	DIK87RTN FISH

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
2	COVE	Num	2	3		SITE NUMBER
4	DAY	Num	2	7		DAY OF MONTH
19	FGROUP	Num	8	147		FISH GROUP, SPORT(1) ROUGH(2) FORAGE(3)
21	FISH_HA	Num	8	163		NUMBER OF FISH PER HECTARE
22	GENCODE	Char	1	171		WEIGHT(1) OR NUMBERS(2) GENERATED
11	GRID	Char	12	39		GRID CODE
23	HCLASS	Char	5	172		HARVEST CLASS, YOUNG, INTER., ADULT
8	HECTAR	Num	4	19		SIZE OF COVE
20	KG_HA	Num	8	155	10.3	WEIGHT OF FISH IN KILOGRAMS PER HECTARE
12	LENUNIT	Num	8	51		LENGTH UNIT, INCH(1) MM(2)
24	LOC	Char	30	177		DIKE SYSTEM LOCATION
15	MAXLEN	Num	8	69		MAXIMUM LENGTH
16	MINLEN	Num	8	77		MINIMUM LENGTH
9	MNDEPTH	Num	8	23		MEAN DEPTH
3	MONTH	Num	2	5		MONTH OF SAMPLE
10	MXDEPTH	Num	8	31		MAXIMUM DEPTH
14	PICKUP_D	Num	2	67		PICKUP DAY
6	RIVCODE	Num	4	11		RIVER CODE, TVA
7	RIVMILE	Num	4	15		RIVER MILE
1	SAMPLE	Num	3	0		SAMPLE NUMBER
18	SCNAME	Char	31	116		SCIENTIFIC NAME OF FISH
13	SPECIES	Num	8	59		SPECIES CODE(TVA 8-DIGIT)
25	SPECODE	Num	8	207		TAXONOMIC CODE
17	TAXA	Char	31	85		TAXONOMIC OR COMMON NAME
5	YEAR	Num	2	9		YEAR OF SAMPLE

Appendix B

Lower Mississippi River Environmental Program
Fishery Summary Investigations

Contents Procedure
SAS Data Library Directory

Page	Name	Library	Memtype	#Obs	Label
B2	BP_S_RTN	FSH_SUM	DATA	1785	Borrow Pit Fishery: Slot Categories
B3,B4	DF_ES	FSH_SUM	DATA	960	Dike Field: Summary - Electroshocking
B5	DF_GN	FSH_SUM	DATA	297	Dike Field: Summary - Gill Nets
B6	DF_HN	FSH_SUM	DATA	791	Dike Field: Summary - Hoop Nets
B7	DF_RTN	FSH_SUM	DATA	632	Dike Field: Summary - Rotenone
B8	DF_SEIN	FSH_SUM	DATA	583	Dike Field: Summary - Sein
B9,B10	DFP_ES	FSH_SUM	DATA	507	Dike Field Pools: Summary - Electroshock
B11	DFP_GN	FSH_SUM	DATA	203	Dike Field Pools: Summary - Gill Nets
B12	DFP_SEIN	FSH_SUM	DATA	681	Dike Field Pools: Summary - Sein
B13,B14	RV_ES	FSH_SUM	DATA	270	Revetment: Summary - Electroshocking
B15	RV_HN	FSH_SUM	DATA	93	Revetment: Summary - Hoop Nets
B16	RV_SEIN	FSH_SUM	DATA	184	Revetment: Summary - Sein
B17,B18	SC_ES	FSH_SUM	DATA	308	Secondary Channel:Summary - Electroshock
B19	SC_SEIN	FSH_SUM	DATA	494	Secondary Channel: Summary - Sein

Data Set Name: FSH_SUM.BP_S_RTN
Member Type: DATA
Engine: V606
Created: 14:11 Wednesday, November 6, 1991
Last Modified: 14:11 Wednesday, November 6, 1991
Label: Borrow Pit Fishery: Slot Categories

Observations: 1785
Variables: 15
Indexes: 0
Observation Length: 123
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 26624
Number of Data Set Pages: 10
First Data Page: 1
Max Obs per Page: 197
Obs in First Data Page: 180
File : BP_S_RTN FSH_SUM

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
1	DATE	Num	8	0	DATE7.	Sampling Date
8	DAY_OUT	Num	8	38		Ending Day of Sampling Effort
4	GEAR	Char	4	14		RTN(Rotenone Sampling)
2	LOC	Char	3	8		Borrow Pit ID
11	NUMBER	Num	8	58		Total Number in Slot Category
5	S_LENGTH	Num	8	18		Shoreline Length
7	SAMDEPTH	Num	8	30		Sample Depth
14	SLOT	Char	1	82		S (Inch Categories)
10	SPECODE	Num	8	50		Taxonomic Code
3	STATION	Char	3	11		Sampling Station ID
15	TAXA	Char	40	83		Taxonomic or Common Name
6	TIME_IN	Char	4	26		Start Time of Sampling Effort
9	TIME_OUT	Char	4	46		Stop Time of Sampling Effort
12	TL	Num	8	66		Length Category (Inches)
13	WT	Num	8	74		Total Weight (grams) in Length Category

Data Set Name: FSH_SUM.DF_ES
Member Type: DATA
Engine: V606
Created: 14:11 Wednesday, November 6, 1991
Last Modified: 14:11 Wednesday, November 6, 1991
Label: Dike Field: Summary - Electroshocking

Observations: 960
Variables: 36
Indexes: 0
Observation Length: 278
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 4096
Number of Data Set Pages: 70
First Data Page: 2
Max Obs per Page: 14
Obs in First Data Page: 11
File : DF_ES FSH_SUM

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
9	AC_DC	Char	1	39		Alternating or Direct Current
11	AMPS	Num	8	48		Number of Amps
2	DATE	Num	8	3	DATE7.	Sampling Date
5	GEAR	Char	3	16		ES (Electro Shocking)
1	LOC	Char	3	0		Dike Field ID
7	MAXDEPTH	Num	8	23		Maximum Depth (meters)
12	PUL_SEC	Num	8	56		Pulse per Second
13	PUL_WDT	Num	8	64		Pulse Width
8	SAMDEPTH	Num	8	31		Sample Depth (meters)
4	SAMPNO	Char	2	14		Sample Number
14	SEC_FSHD	Num	8	72		Seconds Fished
15	SPECODE	Num	8	80		Taxonomic Code
3	STATION	Char	3	11		Sampling Station ID
36	TAXA	Char	30	248		Taxonomic or Common Name
6	TIME_IN	Char	4	19		Start Time of Sampling Effort
19	TL_AVG	Num	8	112		MEAN OF TL
23	TL_MAX	Num	8	144		MAX OF TL
31	TL_MED	Num	8	208		MEDIAN OF TL
25	TL_MIN	Num	8	160		MIN OF TL
27	TL_P10	Num	8	176		P10 OF TL
29	TL_P25	Num	8	192		Q1 OF TL
33	TL_P75	Num	8	224		Q3 OF TL
35	TL_P90	Num	8	240		P90 OF TL
21	TL_STD	Num	8	128		STD OF TL
16	TOT_NUM	Num	8	88		Total Number
17	TOT_WT	Num	8	96		Total Weight
10	VOLTS	Num	8	40		Number of Volts
18	WT_AVG	Num	8	104		MEAN OF WT
22	WT_MAX	Num	8	136		MAX OF WT
30	WT_MED	Num	8	200		MEDIAN OF WT

(Continued)

Data Set Name: FSH_SUM.DF_ES (Concluded)

#	Variable	Type	Len	Pos	Format	Label
24	WT_MIN	Num	8	152		MIN OF WT
26	WT_P10	Num	8	168		P10 OF WT
28	WT_P25	Num	8	184		Q1 OF WT
32	WT_P75	Num	8	216		Q3 OF WT
34	WT_P90	Num	8	232		P90 OF WT
20	WT_STD	Num	8	120		STD OF WT

Data Set Name: FSH_SUM.DF_GN
Member Type: DATA
Engine: V606
Created: 14:11 Wednesday, November 6, 1991
Last Modified: 14:11 Wednesday, November 6, 1991
Label: Dike Field: Summary - Gill Nets

Observations: 297
Variables: 33
Indexes: 0
Observation Length: 257
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 20480
Number of Data Set Pages: 5
First Data Page: 1
Max Obs per Page: 76
Obs in First Data Page: 59
File : DF_GN FSH_SUM

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
11	CURRENT	Num	8	51		Current Speed (cm/sec)
2	DATE	Num	8	3	DATE7.	Sampling Date
9	DAY_OUT	Num	8	39		Stop Day of Sampling Effort
5	GEAR	Char	3	16		GN (Gil Nets)
1	LOC	Char	3	0		Dike Field ID
7	MAXDEPTH	Num	8	23		Maximum Depth (meters)
8	SAMDEPTH	Num	8	31		Sample Depth (meters)
4	SAMPNO	Char	2	14		Sample Number
12	SPECODE	Num	8	59		Taxonomic Code
3	STATION	Char	3	11		Sampling Station ID
33	TAXA	Char	30	227		Taxonomic or Common Name
6	TIME_IN	Char	4	19		Start Time of Sampling Effort
10	TIME_OUT	Char	4	47		Stop Time of Sampling Effort
16	TL_AVG	Num	8	91		MEAN OF TL
20	TL_MAX	Num	8	123		MAX OF TL
28	TL_MED	Num	8	187		MEDIAN OF TL
22	TL_MIN	Num	8	139		MIN OF TL
24	TL_P10	Num	8	155		P10 OF TL
26	TL_P25	Num	8	171		Q1 OF TL
30	TL_P75	Num	8	203		Q3 OF TL
32	TL_P90	Num	8	219		P90 OF TL
18	TL_STD	Num	8	107		STD OF TL
13	TOT_NUM	Num	8	67		Total Number
14	TOT_WT	Num	8	75		Total Weight
15	WT_AVG	Num	8	83		MEAN OF WT
19	WT_MAX	Num	8	115		MAX OF WT
27	WT_MED	Num	8	179		MEDIAN OF WT
21	WT_MIN	Num	8	131		MIN OF WT
23	WT_P10	Num	8	147		P10 OF WT
25	WT_P25	Num	8	163		Q1 OF WT
29	WT_P75	Num	8	195		Q3 OF WT
31	WT_P90	Num	8	211		P90 OF WT
17	WT_STD	Num	8	99		STD OF WT

Data Set Name: FSH_SUM.DF_HN
Member Type: DATA
Engine: V606
Created: 14:11 Wednesday, November 6, 1991
Last Modified: 14:11 Wednesday, November 6, 1991
Label: Dike Field: Summary - Hoop Nets

Observations: 791
Variables: 32
Indexes: 0
Observation Length: 249
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 11264
Number of Data Set Pages: 19
First Data Page: 1
Max Obs per Page: 43
Obs in First Data Page: 26
File : DF_HN FSH_SUM

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
10	CURRENT	Num	8	43		Current Speed (cm/sec)
2	DATE	Num	8	3	DATE7.	Sampling Date
8	DAY_OUT	Num	8	31		Stop Day of Sampling Effort
5	GEAR	Char	3	16		HN (Hoop Nets)
1	LOC	Char	3	0		Dike Field ID
7	SAMDEPTH	Num	8	23		Sample Depth (meters)
4	SAMPNO	Char	2	14		Sample Number
11	SPECODE	Num	8	51		Taxonomic Code
3	STATION	Char	3	11		Sampling Station ID
32	TAXA	Char	30	219		Taxonomic or Common Name
6	TIME_IN	Char	4	19		Start Time of Sampling Effort
9	TIME_OUT	Char	4	39		Stop Time of Sampling Effort
15	TL_AVG	Num	8	83		MEAN OF TL
19	TL_MAX	Num	8	115		MAX OF TL
27	TL_MED	Num	8	179		MEDIAN OF TL
21	TL_MIN	Num	8	131		MIN OF TL
23	TL_P10	Num	8	147		P10 OF TL
25	TL_P25	Num	8	163		Q1 OF TL
29	TL_P75	Num	8	195		Q3 OF TL
31	TL_P90	Num	8	211		P90 OF TL
17	TL_STD	Num	8	99		STD OF TL
12	TOT_NUM	Num	8	59		Total Number
13	TOT_WT	Num	8	67		Total Weight
14	WT_AVG	Num	8	75		MEAN OF WT
18	WT_MAX	Num	8	107		MAX OF WT
26	WT_MED	Num	8	171		MEDIAN OF WT
20	WT_MIN	Num	8	123		MIN OF WT
22	WT_P10	Num	8	139		P10 OF WT
24	WT_P25	Num	8	155		Q1 OF WT
28	WT_P75	Num	8	187		Q3 OF WT
30	WT_P90	Num	8	203		P90 OF WT
16	WT_STD	Num	8	91		STD OF WT

Data Set Name: FSH_SUM.DF_RTN
Member Type: DATA
Engine: V606
Created: 14:11 Wednesday, November 6, 1991
Last Modified: 14:11 Wednesday, November 6, 1991
Label: Dike Field: Summary - Rotenone

Observations: 632
Variables: 33
Indexes: 0
Observation Length: 257
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 20480
Number of Data Set Pages: 9
First Data Page: 1
Max Obs per Page: 76
Obs in First Data Page: 59
File : DF_RTN FSH_SUM

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
11	CURRENT	Num	8	51		Current Speed (cm/sec)
2	DATE	Num	8	3	DATE7.	Sampling Date
9	DAY_OUT	Num	8	39		Stop Day of Sampling Effort
5	GEAR	Char	3	16		RTN (Rotenone)
1	LOC	Char	3	0		Dike Field ID
7	MAXDEPTH	Num	8	23		Maximum Depth (meters)
8	SAMDEPTH	Num	8	31		Sample Depth (meters)
4	SAMPNO	Char	2	14		Sample Number
12	SPECODE	Num	8	59		Taxonomic Code
3	STATION	Char	3	11		Sampling Station ID
33	TAXA	Char	30	227		Taxonomic or Common Name
6	TIME_IN	Char	4	19		Start Time of Sampling Effort
10	TIME_OUT	Char	4	47		Stop Time of Sampling Effort
16	TL_AVG	Num	8	91		MEAN OF TL
20	TL_MAX	Num	8	123		MAX OF TL
28	TL_MED	Num	8	187		MEDIAN OF TL
22	TL_MIN	Num	8	139		MIN OF TL
24	TL_P10	Num	8	155		P10 OF TL
26	TL_P25	Num	8	171		Q1 OF TL
30	TL_P75	Num	8	203		Q3 OF TL
32	TL_P90	Num	8	219		P90 OF TL
18	TL_STD	Num	8	107		STD OF TL
13	TOT_NUM	Num	8	67		Total Number
14	TOT_WT	Num	8	75		Total Weight
15	WT_AVG	Num	8	83		MEAN OF WT
19	WT_MAX	Num	8	115		MAX OF WT
27	WT_MED	Num	8	179		MEDIAN OF WT
21	WT_MIN	Num	8	131		MIN OF WT
23	WT_P10	Num	8	147		P10 OF WT
25	WT_P25	Num	8	163		Q1 OF WT
29	WT_P75	Num	8	195		Q3 OF WT
31	WT_P90	Num	8	211		P90 OF WT
17	WT_STD	Num	8	99		STD OF WT

Data Set Name: FSH_SUM.DF_SEIN
Member Type: DATA
Engine: V606
Created: 14:11 Wednesday, November 6, 1991
Last Modified: 14:11 Wednesday, November 6, 1991
Label: Dike Field: Summary Data - Sein

Observations: 583
Variables: 31
Indexes: 0
Observation Length: 245
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 32768
Number of Data Set Pages: 5
First Data Page: 1
Max Obs per Page: 127
Obs in First Data Page: 111
File : DF_SEIN FSH_SUM

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
9	CURRENT	Num	8	39		Current Speed (cm/sec)
2	DATE	Num	8	3	DATE7.	Sampling Date
5	GEAR	Char	3	16		SN (Sein)
1	LOC	Char	3	0		Dike Field ID
7	MAXDEPTH	Num	8	23		Maximum Depth (meters)
8	SAMDEPTH	Num	8	31		Sample Depth (meters)
4	SAMPNO	Char	2	14		Sample Number
10	SPECODE	Num	8	47		Taxonomic Code
3	STATION	Char	3	11		Sampling Station ID
31	TAXA	Char	30	215		Taxonomic or Common Name
6	TIME_IN	Char	4	19		Start Time of Sampling Effort
14	TL_AVG	Num	8	79		MEAN OF TL
18	TL_MAX	Num	8	111		MAX OF TL
26	TL_MED	Num	8	175		MEDIAN OF TL
20	TL_MIN	Num	8	127		MIN OF TL
22	TL_P10	Num	8	143		P10 OF TL
24	TL_P25	Num	8	159		Q1 OF TL
28	TL_P75	Num	8	191		Q3 OF TL
30	TL_P90	Num	8	207		P90 OF TL
16	TL_STD	Num	8	95		STD OF TL
11	TOT_NUM	Num	8	55		Total Number
12	TOT_WT	Num	8	63		Total Weight
13	WT_AVG	Num	8	71		MEAN OF WT
17	WT_MAX	Num	8	103		MAX OF WT
25	WT_MED	Num	8	167		MEDIAN OF WT
19	WT_MIN	Num	8	119		MIN OF WT
21	WT_P10	Num	8	135		P10 OF WT
23	WT_P25	Num	8	151		Q1 OF WT
27	WT_P75	Num	8	183		Q3 OF WT
29	WT_P90	Num	8	199		P90 OF WT
15	WT_STD	Num	8	87		STD OF WT

Data Set Name: FSH_SUM.DFP_ES
Member Type: DATA
Engine: V606
Created: 14:11 Wednesday, November 6, 1991
Last Modified: 14:11 Wednesday, November 6, 1991
Label: Dike Field Pools: Summary - Electroshock

Observations: 507
Variables: 36
Indexes: 0
Observation Length: 273
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 12288
Number of Data Set Pages: 13
First Data Page: 1
Max Obs per Page: 43
Obs in First Data Page: 26
File : DFP_ES FSH_SUM

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
9	AC_DC	Char	2	40		Alternating or Direct Current
11	AMPS	Num	8	50		Number of Amps
1	DATE	Num	8	0	DATE7.	Sampling Date
5	GEAR	Char	4	16		ES (Electro Shocking)
2	LOC	Char	3	8		Dike Field Pool ID
7	MAXDEPTH	Num	8	24		Maximum Depth (meters)
12	PUL_SEC	Num	8	58		Pulse per Second
13	PUL_WDT	Char	1	66		Pulse Width
8	SAMDEPTH	Num	8	32		Sample Depth (meters)
4	SAMPNO	Char	2	14		Sample Number
14	SEC_FSHD	Num	8	67		Seconds Fished
15	SPECODE	Num	8	75		Taxonomic Code
3	STATION	Char	3	11		Sampling Station ID
36	TAXA	Char	30	243		Taxonomic or Common Name
6	TIME_IN	Char	4	20		Start Time of Sampling Effort
19	TL_AVG	Num	8	107		MEAN OF TL
23	TL_MAX	Num	8	139		MAX OF TL
31	TL_MED	Num	8	203		MEDIAN OF TL
25	TL_MIN	Num	8	155		MIN OF TL
27	TL_P10	Num	8	171		P10 OF TL
29	TL_P25	Num	8	187		Q1 OF TL
33	TL_P75	Num	8	219		Q3 OF TL
35	TL_P90	Num	8	235		P90 OF TL
21	TL_STD	Num	8	123		STD OF TL
16	TOT_NUM	Num	8	83		Total Number
17	TOT_WT	Num	8	91		Total Weight
10	VOLTS	Num	8	42		Number of Volts
18	WT_AVG	Num	8	99		MEAN OF WT
22	WT_MAX	Num	8	131		MAX OF WT
30	WT_MED	Num	8	195		MEDIAN OF WT

(Continued)

Data Set Name: FSH_SUM.DFP_ES (Concluded)

#	Variable	Type	Len	Pos	Format	Label
24	WT_MIN	Num	8	147		MIN OF WT
26	WT_P10	Num	8	163		P10 OF WT
28	WT_P25	Num	8	179		Q1 OF WT
32	WT_P75	Num	8	211		Q3 OF WT
34	WT_P90	Num	8	227		P90 OF WT
20	WT_STD	Num	8	115		STD OF WT

Data Set Name: FSH_SUM.DFP_GN
Member Type: DATA
Engine: V606
Created: 14:11 Wednesday, November 6, 1991
Last Modified: 14:11 Wednesday, November 6, 1991
Label: Dike Field Pools: Summary - Gill Nets

Observations: 203
Variables: 33
Indexes: 0
Observation Length: 258
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 9216
Number of Data Set Pages: 7
First Data Page: 1
Max Obs per Page: 34
Obs in First Data Page: 17
File : DFP_GN FSH_SUM

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
11	CURRENT	Num	8	52		Current Speed (cm/sec)
1	DATE	Num	8	0	DATE7.	Sampling Date
9	DAY_OUT	Num	8	40		Stop Date of Sampling Effort
5	GEAR	Char	4	16		Gil Net (EG8)
2	LOC	Char	3	8		Dike Field Pool ID
7	MAXDEPTH	Num	8	24		Maximum Depth (meters)
8	SAMDEPTH	Num	8	32		Sample Depth (meters)
4	SAMPNO	Char	2	14		Sample Number
12	SPECODE	Num	8	60		Taxonomic Code
3	STATION	Char	3	11		Sampling Station ID
33	TAXA	Char	30	228		Taxonomic or Common Name
6	TIME_IN	Char	4	20		Start Time of Sampling Effort
10	TIME_OUT	Char	4	48		Stop Time of Sampling Effort
16	TL_AVG	Num	8	92		MEAN OF TL
20	TL_MAX	Num	8	124		MAX OF TL
28	TL_MED	Num	8	188		MEDIAN OF TL
22	TL_MIN	Num	8	140		MIN OF TL
24	TL_P10	Num	8	156		P10 OF TL
26	TL_P25	Num	8	172		Q1 OF TL
30	TL_P75	Num	8	204		Q3 OF TL
32	TL_P90	Num	8	220		P90 OF TL
18	TL_STD	Num	8	108		STD OF TL
13	TOT_NUM	Num	8	68		Total Number
14	TOT_WT	Num	8	76		Total Weight
15	WT_AVG	Num	8	84		MEAN OF WT
19	WT_MAX	Num	8	116		MAX OF WT
27	WT_MED	Num	8	180		MEDIAN OF WT
21	WT_MIN	Num	8	132		MIN OF WT
23	WT_P10	Num	8	148		P10 OF WT
25	WT_P25	Num	8	164		Q1 OF WT
29	WT_P75	Num	8	196		Q3 OF WT
31	WT_P90	Num	8	212		P90 OF WT
17	WT_STD	Num	8	100		STD OF WT

Data Set Name: FSH_SUM.DFP_SEIN
Member Type: DATA
Engine: V606
Created: 14:11 Wednesday, November 6, 1991
Last Modified: 14:11 Wednesday, November 6, 1991
Label: Dike Field Pools: Summary - Sein

Observations: 681
Variables: 31
Indexes: 0
Observation Length: 246
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 28672
Number of Data Set Pages: 7
First Data Page: 1
Max Obs per Page: 111
Obs in First Data Page: 94
File : DFP_SEIN FSH_SUM

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
7	CURRENT	Num	8	24		Current Speed (cm/sec)
1	DATE	Num	8	0	DATE7.	Sampling Date
5	GEAR	Char	4	16		Sein (S15)
2	LOC	Char	3	8		Dike Field Pool ID
8	MAXDEPTH	Num	8	32		Maximum Depth (meters)
9	SAMDEPTH	Num	8	40		Sample Depth (meters)
4	SAMPNO	Char	2	14		Sample Number
10	SPECODE	Num	8	48		Taxonomic Code
3	STATION	Char	3	11		Sampling Station ID
31	TAXA	Char	30	216		Taxonomic or Common Name
6	TIME_IN	Char	4	20		Start Time of Sampling Effort
14	TL_AVG	Num	8	80		MEAN OF TL
18	TL_MAX	Num	8	112		MAX OF TL
26	TL_MED	Num	8	176		MEDIAN OF TL
20	TL_MIN	Num	8	128		MIN OF TL
22	TL_P10	Num	8	144		P10 OF TL
24	TL_P25	Num	8	160		Q1 OF TL
28	TL_P75	Num	8	192		Q3 OF TL
30	TL_P90	Num	8	208		P90 OF TL
16	TL_STD	Num	8	96		STD OF TL
11	TOT_NUM	Num	8	56		Total Number
12	TOT_WT	Num	8	64		Total Weight
13	WT_AVG	Num	8	72		MEAN OF WT
17	WT_MAX	Num	8	104		MAX OF WT
25	WT_MED	Num	8	168		MEDIAN OF WT
19	WT_MIN	Num	8	120		MIN OF WT
21	WT_P10	Num	8	136		P10 OF WT
23	WT_P25	Num	8	152		Q1 OF WT
27	WT_P75	Num	8	184		Q3 OF WT
29	WT_P90	Num	8	200		P90 OF WT
15	WT_STD	Num	8	88		STD OF WT

Data Set Name: FSH_SUM.RV_ES
Member Type: DATA
Engine: V606
Created: 14:12 Wednesday, November 6, 1991
Last Modified: 14:12 Wednesday, November 6, 1991
Label: Revetment: Summary - Electroshocking

Observations: 270
Variables: 36
Indexes: 0
Observation Length: 273
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 12288
Number of Data Set Pages: 7
First Data Page: 1
Max Obs per Page: 43
Obs in First Data Page: 26
File : RV_ES FSH_SUM

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
9	AC_DC	Char	2	40		Alternating or Direct Current
11	AMPS	Num	8	50		Number of Amps
1	DATE	Num	8	0	DATE7.	Sampling Date
5	GEAR	Char	4	16		ES (Electro Shocking)
2	LOC	Char	3	8		Revetment ID
7	MAXDEPTH	Num	8	24		Maximum Depth (meters)
12	PUL_SEC	Num	8	58		Pulse per Second
13	PUL_WDT	Char	1	66		Pulse Width
8	SAMDEPTH	Num	8	32		Sample Depth (meters)
4	SAMPNO	Char	2	14		Sample Number
14	SEC_FSHD	Num	8	67		Seconds Fished
15	SPECODE	Num	8	75		Taxonomic Code
3	STATION	Char	3	11		Sampling Station ID
36	TAXA	Char	30	243		Taxonomic or Common Name
6	TIME_IN	Char	4	20		Start Time of Sampling Effort
19	TL_AVG	Num	8	107		MEAN OF TL
23	TL_MAX	Num	8	139		MAX OF TL
31	TL_MED	Num	8	203		MEDIAN OF TL
25	TL_MIN	Num	8	155		MIN OF TL
27	TL_P10	Num	8	171		P10 OF TL
29	TL_P25	Num	8	187		Q1 OF TL
33	TL_P75	Num	8	219		Q3 OF TL
35	TL_P90	Num	8	235		P90 OF TL
21	TL_STD	Num	8	123		STD OF TL
16	TOT_NUM	Num	8	83		Total Number
17	TOT_WT	Num	8	91		Total Weight
10	VOLTS	Num	8	42		Number of Volts
18	WT_AVG	Num	8	99		MEAN OF WT
22	WT_MAX	Num	8	131		MAX OF WT
30	WT_MED	Num	8	195		MEDIAN OF WT

(Continued)

Data Set Name: FSH_SUM.RV_ES (Concluded)

#	Variable	Type	Len	Pos	Format	Label
24	WT_MIN	Num	8	147		MIN OF WT
26	WT_P10	Num	8	163		P10 OF WT
28	WT_P25	Num	8	179		Q1 OF WT
32	WT_P75	Num	8	211		Q3 OF WT
34	WT_P90	Num	8	227		P90 OF WT
20	WT_STD	Num	8	115		STD OF WT

Data Set Name: FSH_SUM.RV_HN
Member Type: DATA
Engine: V606
Created: 14:12 Wednesday, November 6, 1991
Last Modified: 14:12 Wednesday, November 6, 1991
Label: Revetment: Summary - Hoop Nets

Observations: 93
Variables: 32
Indexes: 0
Observation Length: 250
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 31744
Number of Data Set Pages: 1
First Data Page: 1
Max Obs per Page: 121
Obs in First Data Page: 93
File : RV_HN FSH_SUM

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
10	CURRENT	Num	8	44		Current Speed (cm/sec)
1	DATE	Num	8	0	DATE7.	Sampling Date
8	DAY_OUT	Num	8	32		Stop Day of Sampling Effort
5	GEAR	Char	4	16		Hoop Net (HN3)
2	LOC	Char	3	8		Revetment Id
7	SAMDEPTH	Num	8	24		Sample Depth (meters)
4	SAMPNO	Char	2	14		Sample Number
11	SPECODE	Num	8	52		Taxonomic Code
3	STATION	Char	3	11		Sampling Station ID
32	TAXA	Char	30	220		Taxonomic or Common Name
6	TIME_IN	Char	4	20		Start Time of Sampling Effort
9	TIME_OUT	Char	4	40		Stop Time of Sampling Effort
15	TL_AVG	Num	8	84		MEAN OF TL
19	TL_MAX	Num	8	116		MAX OF TL
27	TL_MED	Num	8	180		MEDIAN OF TL
21	TL_MIN	Num	8	132		MIN OF TL
23	TL_P10	Num	8	148		P10 OF TL
25	TL_P25	Num	8	164		Q1 OF TL
29	TL_P75	Num	8	196		Q3 OF TL
31	TL_P90	Num	8	212		P90 OF TL
17	TL_STD	Num	8	100		STD OF TL
12	TOT_NUM	Num	8	60		Total Number
13	TOT_WT	Num	8	68		Total Weight
14	WT_AVG	Num	8	76		MEAN OF WT
18	WT_MAX	Num	8	108		MAX OF WT
26	WT_MED	Num	8	172		MEDIAN OF WT
20	WT_MIN	Num	8	124		MIN OF WT
22	WT_P10	Num	8	140		P10 OF WT
24	WT_P25	Num	8	156		Q1 OF WT
28	WT_P75	Num	8	188		Q3 OF WT
30	WT_P90	Num	8	204		P90 OF WT
16	WT_STD	Num	8	92		STD OF WT

Data Set Name: FSH_SUM.RV_SEIN
Member Type: DATA
Engine: V606
Created: 14:12 Wednesday, November 6, 1991
Last Modified: 14:12 Wednesday, November 6, 1991
Label: Revetment: Summary - Sein

Observations: 184
Variables: 31
Indexes: 0
Observation Length: 246
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 28672
Number of Data Set Pages: 2
First Data Page: 1
Max Obs per Page: 111
Obs in First Data Page: 94
File : RV_SEIN FSH_SUM

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
7	CURRENT	Num	8	24		Current Speed (cm/sec)
1	DATE	Num	8	0	DATE7.	Sampling Date
5	GEAR	Char	4	16		Seins (S10, S15, S20)
2	LOC	Char	3	8		Revetment Id
8	MAXDEPTH	Num	8	32		Maximum Depth (meters)
9	SAMDEPTH	Num	8	40		Sample Depth (meters)
4	SAMPNO	Char	2	14		Sample Number
10	SPECODE	Num	8	48		Taxonomic Code
3	STATION	Char	3	11		Sampling Station ID
31	TAXA	Char	30	216		Taxonomic or Common Name
6	TIME_IN	Char	4	20		Start Time of Sampling Effort
14	TL_AVG	Num	8	80		MEAN OF TL
18	TL_MAX	Num	8	112		MAX OF TL
26	TL_MED	Num	8	176		MEDIAN OF TL
20	TL_MIN	Num	8	128		MIN OF TL
22	TL_P10	Num	8	144		P10 OF TL
24	TL_P25	Num	8	160		Q1 OF TL
28	TL_P75	Num	8	192		Q3 OF TL
30	TL_P90	Num	8	208		P90 OF TL
16	TL_STD	Num	8	96		STD OF TL
11	TOT_NUM	Num	8	56		Total Number
12	TOT_WT	Num	8	64		Total Weight
13	WT_AVG	Num	8	72		MEAN OF WT
17	WT_MAX	Num	8	104		MAX OF WT
25	WT_MED	Num	8	168		MEDIAN OF WT
19	WT_MIN	Num	8	120		MIN OF WT
21	WT_P10	Num	8	136		P10 OF WT
23	WT_P25	Num	8	152		Q1 OF WT
27	WT_P75	Num	8	184		Q3 OF WT
29	WT_P90	Num	8	200		P90 OF WT
15	WT_STD	Num	8	88		STD OF WT

Data Set Name: FSH_SUM.SC_ES
Member Type: DATA
Engine: V606
Created: 14:12 Wednesday, November 6, 1991
Last Modified: 14:12 Wednesday, November 6, 1991
Label: Secondary Channel:Summary - Electroshock

Observations: 308
Variables: 36
Indexes: 0
Observation Length: 273
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 12288
Number of Data Set Pages: 8
First Data Page: 1
Max Obs per Page: 43
Obs in First Data Page: 26
File : SC_ES FSH_SUM

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
9	AC_DC	Char	2	40		Alternating or Direct Current
11	AMPS	Num	8	50		Number of Amps
1	DATE	Num	8	0	DATE7.	Sampling Date
5	GEAR	Char	4	16		ES (Electro Shocking)
2	LOC	Char	3	8		Secondary Channel ID
7	MAXDEPTH	Num	8	24		Maximum Depth (meters)
12	PUL_SEC	Num	8	58		Pulse per Second
13	PUL_WDT	Char	1	66		Pulse Width
8	SAMDEPTH	Num	8	32		Sample Depth (meters)
4	SAMPNO	Char	2	14		Sample Number
14	SEC_FSHD	Num	8	67		Seconds Fished
15	SPECODE	Num	8	75		Taxonomic Code
3	STATION	Char	3	11		Sampling Station ID
36	TAXA	Char	30	243		Taxonomic or Common Name
6	TIME_IN	Char	4	20		Start Time of Sampling Effort
19	TL_AVG	Num	8	107		MEAN OF TL
23	TL_MAX	Num	8	139		MAX OF TL
31	TL_MED	Num	8	203		MEDIAN OF TL
25	TL_MIN	Num	8	155		MIN OF TL
27	TL_P10	Num	8	171		P10 OF TL
29	TL_P25	Num	8	187		Q1 OF TL
33	TL_P75	Num	8	219		Q3 OF TL
35	TL_P90	Num	8	235		P90 OF TL
21	TL_STD	Num	8	123		STD OF TL
16	TOT_NUM	Num	8	83		Total Number
17	TOT_WT	Num	8	91		Total Weight
10	VOLTS	Num	8	42		Number of Volts
18	WT_AVG	Num	8	99		MEAN OF WT
22	WT_MAX	Num	8	131		MAX OF WT
30	WT_MED	Num	8	195		MEDIAN OF WT

(Continued)

Data Set Name: FSH_SUM.SC_ES (Concluded)

#	Variable	Type	Len	Pos	Format	Label
24	WT_MIN	Num	8	147		MIN OF WT
26	WT_P10	Num	8	163		P10 OF WT
28	WT_P25	Num	8	179		Q1 OF WT
32	WT_P75	Num	8	211		Q3 OF WT
34	WT_P90	Num	8	227		P90 OF WT
20	WT_STD	Num	8	115		STD OF WT

Data Set Name: FSH_SUM.SC_SEIN
Member Type: DATA
Engine: V606
Created: 14:12 Wednesday, November 6, 1991
Last Modified: 14:12 Wednesday, November 6, 1991
Label: Secondary Channel: Summary - Sein

Observations: 494
Variables: 30
Indexes: 0
Observation Length: 238
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 22528
Number of Data Set Pages: 6
First Data Page: 1
Max Obs per Page: 90
Obs in First Data Page: 73
File : SC_SEIN FSH_SUM

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
7	CURRENT	Num	8	24		Current Speed (cm/sec)
1	DATE	Num	8	0	DATE7.	Sampling Date
5	GEAR	Char	4	16		Sein (S15)
2	LOC	Char	3	8		Secondary Channel ID
8	MAXDEPTH	Num	8	32		Maximum Depth (meters)
4	SAMPNO	Char	2	14		Sample Number
9	SPECODE	Num	8	40		Taxonomic Code
3	STATION	Char	3	11		Sampling Station ID
30	TAXA	Char	30	208		Taxonomic or Common Name
6	TIME_IN	Char	4	20		Start Time of Sampling Effort
13	TL_AVG	Num	8	72		MEAN OF TL
17	TL_MAX	Num	8	104		MAX OF TL
25	TL_MED	Num	8	168		MEDIAN OF TL
19	TL_MIN	Num	8	120		MIN OF TL
21	TL_P10	Num	8	136		P10 OF TL
23	TL_P25	Num	8	152		Q1 OF TL
27	TL_P75	Num	8	184		Q3 OF TL
29	TL_P90	Num	8	200		P90 OF TL
15	TL_STD	Num	8	88		STD OF TL
10	TOT_NUM	Num	8	48		Total Number
11	TOT_WT	Num	8	56		Total Weight
12	WT_AVG	Num	8	64		MEAN OF WT
16	WT_MAX	Num	8	96		MAX OF WT
24	WT_MED	Num	8	160		MEDIAN OF WT
18	WT_MIN	Num	8	112		MIN OF WT
20	WT_P10	Num	8	128		P10 OF WT
22	WT_P25	Num	8	144		Q1 OF WT
26	WT_P75	Num	8	176		Q3 OF WT
28	WT_P90	Num	8	192		P90 OF WT
14	WT_STD	Num	8	80		STD OF WT

Appendix C

Lower Mississippi River Environmental Program
Benthologocal Enumeration Databases

Contents Procedure
SAS Data Library Directory

Page	Name	Library	Memtype	#Obs	Label
C2	BP_BPN	BENTHOS	DATA	1964	Borrow Pit Study: Baby Ponar Sampler
C3	DF_PLN	BENTHOS	DATA	2002	Dike Field System: Plankton Net Sampler
C4	DF_RCK	BENTHOS	DATA	798	Dike Field System: Rock Samples
C5	DF_SHK	BENTHOS	DATA	2748	Dike Field System: Shipek Sampler
C6	DFP_RCK	BENTHOS	DATA	181	Dike Field Pool: Rock Samples
C7	DFP_SHK	BENTHOS	DATA	209	Dike Field Pool: Shipek Sampler
C8	EDDY_PLN	BENTHOS	DATA	2788	Revetment Eddy: Plankton Net Sampler
C9	EDDY_SHK	BENTHOS	DATA	97	Revetment Eddy Study: Shipek Sampler
C10	FPL_BPN	BENTHOS	DATA	840	Flood Plain Lakes: Baby Ponar Sampler
C11	RV_ACB	BENTHOS	DATA	325	Revetment Study: Articulated Concrete Block (ACB) Sampler
C12	RV_ACS	BENTHOS	DATA	219	Revetment Study: Articulated Concrete Slab (ACS) Sampler
C13	RV_HES	BENTHOS	DATA	222	Revetment Study: Hester-Dendy Sampler
C14	RV_JAR	BENTHOS	DATA	53	Revetment Study: Jar Sampler
C15	RV_PLN	BENTHOS	DATA	169	Revetment Study: Plankton Net Sampler
C16	RV_SHK	BENTHOS	DATA	405	Revetment Study: Shipek Sampler
C17	RV_SNG	BENTHOS	DATA	250	Revetment Study: Drifting Snag Samples
C18	SC_BPN	BENTHOS	DATA	41	Secondary Channels: Baby Ponar Sampler
C19	SC_RCK	BENTHOS	DATA	207	Secondary Channels: Rock Samples
C20	SC_SHK	BENTHOS	DATA	522	Secondary Channels: Shipek Sampler

Data Set Name:	BENTHOS.BP_BPN	Observations:	1964
Member Type:	DATA	Variables:	12
Engine:	V606	Indexes:	0
Created:	13:57 Wednesday, November 6, 1991	Observation Length:	98
Last Modified:	13:57 Wednesday, November 6, 1991	Deleted Observations:	0
Label:	Borrow Pit Study: Baby Ponar Sampler		

-----Engine/Host Dependent Information-----

Data Set Page Size:	17408
Number of Data Set Pages:	13
First Data Page:	1
Max Obs per Page:	158
Obs in First Data Page:	141
File :	BP_BPN BENTHOS

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
8	CONV	Num	8	31		Density Conversion Factor (Nos/Sq M)
6	DATE	Num	8	15	DATE7.	Sampling Date
9	DEPTH	Num	8	39		Sample Depth (meters)
4	GEAR	Char	4	8		Sampling Gear
1	LOC	Char	3	0		Abbreviated Sampling Location
11	NUMBER	Num	8	50		Number of Individuals per Sample
3	SAMPNO	Char	2	6		Sample Number
7	SPPCODE	Num	8	23		Taxonomic Species Code
2	STATION	Char	3	3		Sampling Station
12	TAXA	Char	40	58		Taxonomic Name
10	TIME	Char	3	47		Time of Sample
5	VIS_SED	Char	3	12		Visual Sediment Classification

Data Set Name: BENTHOS.DF_PLN
Member Type: DATA
Engine: V606
Created: 13:58 Wednesday, November 6, 1991
Last Modified: 13:58 Wednesday, November 6, 1991
Label: Dike Field System: Plankton Net Sampler

Observations: 2002
Variables: 12
Indexes: 0
Observation Length: 98
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 17408
Number of Data Set Pages: 13
First Data Page: 1
Max Obs per Page: 158
Obs in First Data Page: 141
File : DF_PLN BENTHOS

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
4	CONV	Num	8	8		Density Conversion Factor (Nos/Sq M)
9	DATE	Num	8	34	DATE7.	Sampling Date
7	DEPTH	Num	8	23		Sample Depth (meters)
5	GEAR	Char	3	16		Sampling Gear
1	LOC	Char	3	0		Abbreviated Sampling Location
11	NUMBER	Num	8	50		Number of Individuals per Sample
3	SAMPNO	Char	2	6		Sample Number
10	SPPCODE	Num	8	42		Taxonomic Species Code
2	STATION	Char	3	3		Sampling Station
12	TAXA	Char	40	58		Taxonomic Name
6	TIME	Char	4	19		Time of Sample
8	VIS_SED	Char	3	31		Visual Sediment Classification

Data Set Name: BENTHOS.DF_RCK
Member Type: DATA
Engine: V606
Created: 13:58 Wednesday, November 6, 1991
Last Modified: 13:58 Wednesday, November 6, 1991
Label: Dike Field System: Rock Samples

Observations: 798
Variables: 12
Indexes: 0
Observation Length: 98
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 17408
Number of Data Set Pages: 6
First Data Page: 1
Max Obs per Page: 158
Obs in First Data Page: 141
Userid : HODGEJ
File : DF_RCK BENTHOS

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
3	CONV	Num	8	5		Density Conversion Factor (Nos/Sq M)
8	DATE	Num	8	31	DATE7.	Sampling Date
6	DEPTH	Num	8	20		Sample Depth (meters)
4	GEAR	Char	3	13		Sampling Gear
12	LOC	Char	3	95		Abbreviated Sampling Location
10	NUMBER	Num	8	47		Number of Individuals per Sample
2	SAMPNO	Char	2	3		Sample Number
9	SPPCODE	Num	8	39		Taxonomic Species Code
1	STATION	Char	3	0		Sampling Station
11	TAXA	Char	40	55		Taxonomic Name
5	TIME	Char	4	16		Time of Sample
7	VIS_SED	Char	3	28		Visual Sediment Classification

Data Set Name: BENTHOS.DF_SHK
Member Type: DATA
Engine: V606
Created: 13:58 Wednesday, November 6, 1991
Last Modified: 13:58 Wednesday, November 6, 1991
Label: Dike Field System: Shipek Sampler

Observations: 2748
Variables: 12
Indexes: 0
Observation Length: 98
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 17408
Number of Data Set Pages: 18
First Data Page: 1
Max Obs per Page: 158
Obs in First Data Page: 141
File : DF_SHK BENTHOS

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
11	CONV	Num	8	87		Density Conversion Factor (Nos/Sq M)
7	DATE	Num	8	23	DATE7.	Sampling Date
5	DEPTH	Num	8	12		Sample Depth (meters)
3	GEAR	Char	3	5		Sampling Gear
12	LOC	Char	3	95		Abbreviated Sampling Location
9	NUMBER	Num	8	39		Number of Individuals per Sample
2	SAMPNO	Char	2	3		Sample Number
8	SPPCODE	Num	8	31		Taxonomic Species Code
1	STATION	Char	3	0		Sampling Station
10	TAXA	Char	40	47		Taxonomic Name
4	TIME	Char	4	8		Time of Sample
6	VIS_SED	Char	3	20		Visual Sediment Classification

Data Set Name: BENTHOS.DFP_RCK
Member Type: DATA
Engine: V606
Created: 13:58 Wednesday, November 6, 1991
Last Modified: 13:58 Wednesday, November 6, 1991
Label: Dike Field Pool: Rock Samples

Observations: 181
Variables: 12
Indexes: 0
Observation Length: 98
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 17408
Number of Data Set Pages: 2
First Data Page: 1
Max Obs per Page: 158
Obs in First Data Page: 141
File : DFP_RCK BENTHOS

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
10	CONV	Num	8	42		Density Conversion Factor (Nos/Sq M)
8	DATE	Num	8	26	DATE7.	Sampling Date
6	DEPTH	Num	8	15		Sample Depth (meters)
5	GEAR	Char	3	12		Sampling Gear
1	LOC	Char	3	0		Abbreviated Sampling Location
11	NUMBER	Num	8	50		Number of Individuals per Sample
4	SAMPNO	Char	2	10		Sample Number
9	SPPCODE	Num	8	34		Taxonomic Species Code
3	STATION	Char	3	7		Sampling Station
12	TAXA	Char	40	58		Taxonomic Name
2	TIME	Char	4	3		Time of Sample
7	VIS_SED	Char	3	23		Visual Sediment Classification

Data Set Name: BENTHOS.DFP_SHK
Member Type: DATA
Engine: V606
Created: 13:58 Wednesday, November 6, 1991
Last Modified: 13:58 Wednesday, November 6, 1991
Label: Dike Field Pool: Shipek Sampler

Observations: 209
Variables: 12
Indexes: 0
Observation Length: 98
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 17408
Number of Data Set Pages: 2
First Data Page: 1
Max Obs per Page: 158
Obs in First Data Page: 141
File : DFP_SHK BENTHOS

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
10	CONV	Num	8	42		Density Conversion Factor (Nos/Sq M)
8	DATE	Num	8	26	DATE7.	Sampling Date
6	DEPTH	Num	8	15		Sample Depth (meters)
5	GEAR	Char	3	12		Sampling Gear
1	LOC	Char	3	0		Abbreviated Sampling Location
11	NUMBER	Num	8	50		Number of Individuals per Sample
4	SAMPNO	Char	2	10		Sample Number
9	SPPCODE	Num	8	34		Taxonomic Species Code
3	STATION	Char	3	7		Sampling Station
12	TAXA	Char	40	58		Taxonomic Name
2	TIME	Char	4	3		Time of Sample
7	VIS_SED	Char	3	23		Visual Sediment Classification

Data Set Name: BENTHOS.EDDY_PLN
Member Type: DATA
Engine: V606
Created: 13:58 Wednesday, November 6, 1991
Last Modified: 13:58 Wednesday, November 6, 1991
Label: Revetment Eddy: Plankton Net Sampler

Observations: 2788
Variables: 13
Indexes: 0
Observation Length: 99
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 10240
Number of Data Set Pages: 31
First Data Page: 1
Max Obs per Page: 92
Obs in First Data Page: 74
File : EDDY_PLN BENTHOS

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
5	CONV	Num	8	9		Density Conversion Factor (Nos/Sq M)
6	DATE	Num	8	17	DATE7.	Sampling Date
12	DEPTH	Num	8	88		Sample Depth (meters)
13	GEAR	Char	3	96		Sampling Gear
2	LOC	Char	3	1		Abbreviated Sampling Location
9	NUMBER	Num	8	73		Number of Individuals per Sample
1	PERIOD	Char	1	0		Diel Period Category (D-Day,N-Night)
4	SAMPNO	Char	2	7		Sample Number
7	SPPCODE	Num	8	25		Taxonomic Species Code
3	STATION	Char	3	4		Sampling Station
8	TAXA	Char	40	33		Taxonomic Name
11	TIME	Char	4	84		Time of Sample
10	VIS_SED	Char	3	81		Visual Sediment Classification

Data Set Name: BENTHOS.EDDY_SHK
Member Type: DATA
Engine: V606
Created: 13:58 Wednesday, November 6, 1991
Last Modified: 13:58 Wednesday, November 6, 1991
Label: Revetment Eddy Study: Shipek Sampler

Observations: 97
Variables: 12
Indexes: 0
Observation Length: 98
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 17408
Number of Data Set Pages: 1
First Data Page: 1
Max Obs per Page: 158
Obs in First Data Page: 97
File : EDDY_SHK BENTHOS

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
7	CONV	Num	8	27		Density Conversion Factor (Nos/Sq M)
2	DATE	Num	8	3	DATE7.	Sampling Date
8	DEPTH	Num	8	35		Sample Depth (meters)
1	GEAR	Char	3	0		Sampling Gear
3	LOC	Char	3	11		Abbreviated Sampling Location
11	NUMBER	Num	8	50		Number of Individuals per Sample
5	SAMPNO	Char	2	17		Sample Number
6	SPPCODE	Num	8	19		Taxonomic Species Code
4	STATION	Char	3	14		Sampling Station
12	TAXA	Char	40	58		Taxonomic Name
9	TIME	Char	4	43		Time of Sample
10	VIS_SED	Char	3	47		Visual Sediment Classification

Data Set Name:	BENTHOS.FPL_BPN	Observations:	840
Member Type:	DATA	Variables:	12
Engine:	V606	Indexes:	0
Created:	13:58 Wednesday, November 6, 1991	Observation Length:	109
Last Modified:	13:58 Wednesday, November 6, 1991	Deleted Observations:	0
Label:	Flood Plain Lakes: Baby Ponar Sampler		

-----Engine/Host Dependent Information-----

Data Set Page Size:	7168
Number of Data Set Pages:	15
First Data Page:	1
Max Obs per Page:	59
Obs in First Data Page:	44
File :	FPL_BPN BENTHOS

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
7	CONV	Num	8	38		Density Conversion Factor (Nos/Sq M)
2	DATE	Num	8	3	DATE7.	Sampling Date
8	DEPTH	Num	8	46		Sample Depth (meters)
1	GEAR	Char	3	0		Sampling Gear
3	LOC	Char	14	11		Abbreviated Sampling Location
11	NUMBER	Num	8	61		Number of Individuals per Sample
5	SAMPNO	Char	2	28		Sample Number
6	SPPCODE	Num	8	30		Taxonomic Species Code
4	STATION	Char	3	25		Sampling Station
12	TAXA	Char	40	69		Taxonomic Name
9	TIME	Char	4	54		Time of Sample
10	VIS_SED	Char	3	58		Visual Sediment Classification

Data Set Name: BENTHOS.RV_ACB
Member Type: DATA
Engine: V606
Created: 13:58 Wednesday, November 6, 1991
Last Modified: 13:58 Wednesday, November 6, 1991
Label: Revetment Study: ACB Sampler

Observations: 325
Variables: 10
Indexes: 0
Observation Length: 99
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 10240
Number of Data Set Pages: 4
First Data Page: 1
Max Obs per Page: 92
Obs in First Data Page: 78
File : RV_ACB BENTHOS

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
10	CONV	Num	8	91		Density Conversion Factor (Nos/Sq M)
2	DATE	Num	8	4	DATE7.	Sampling Date
1	GEAR	Char	4	0		Sampling Gear
3	LOC	Char	4	12		Abbreviated Sampling Location
9	NUMBER	Num	8	83		Number of Individuals per Sample
5	SAMPNO	Char	2	17		Sample Number
8	SPPCODE	Num	8	75		Taxonomic Species Code
4	STATION	Char	1	16		Sampling Station
6	SURFACE	Char	16	19		Type of Articulated Block
7	TAXA	Char	40	35		Taxonomic Name

Data Set Name: BENTHOS.RV_ACS
Member Type: DATA
Engine: V606
Created: 13:58 Wednesday, November 6, 1991
Last Modified: 13:58 Wednesday, November 6, 1991
Label: Revetment Study: ACS Sampler

Observations: 219
Variables: 12
Indexes: 0
Observation Length: 98
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 17408
Number of Data Set Pages: 2
First Data Page: 1
Max Obs per Page: 158
Obs in First Data Page: 141
File : RV_ACS BENTHOS

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
9	CONV	Num	8	34		Density Conversion Factor (Nos/Sq M)
8	DATE	Num	8	26	DATE7.	Sampling Date
6	DEPTH	Num	8	15		Sample Depth (meters)
5	GEAR	Char	3	12		Sampling Gear
1	LOC	Char	3	0		Abbreviated Sampling Location
11	NUMBER	Num	8	50		Number of Individuals per Sample
4	SAMPNO	Char	2	10		Sample Number
10	SPPCODE	Num	8	42		Taxonomic Species Code
3	STATION	Char	3	7		Sampling Station
12	TAXA	Char	40	58		Taxonomic Name
2	TIME	Char	4	3		Time of Sample
7	VIS_SED	Char	3	23		Visual Sediment Classification

Data Set Name: BENTHOS.RV_HES
Member Type: DATA
Engine: V606
Created: 13:58 Wednesday, November 6, 1991
Last Modified: 13:58 Wednesday, November 6, 1991
Label: Revetment Study: Hester-Dendy Sampler

Observations: 222
Variables: 12
Indexes: 0
Observation Length: 98
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 17408
Number of Data Set Pages: 2
First Data Page: 1
Max Obs per Page: 158
Obs in First Data Page: 141
File : RV_HES BENTHOS

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
9	CONV	Num	8	34		Density Conversion Factor (Nos/Sq M)
8	DATE	Num	8	26	DATE7.	Sampling Date
6	DEPTH	Num	8	15		Sample Depth (meters)
5	GEAR	Char	3	12		Sampling Gear
1	LOC	Char	3	0		Abbreviated Sampling Location
11	NUMBER	Num	8	50		Number of Individuals per Sample
4	SAMPNO	Char	2	10		Sample Number
10	SPPCODE	Num	8	42		Taxonomic Species Code
3	STATION	Char	3	7		Sampling Station
12	TAXA	Char	40	58		Taxonomic Name
2	TIME	Char	4	3		Time of Sample
7	VIS_SED	Char	3	23		Visual Sediment Classification

Data Set Name: BENTHOS.RV_JAR
Member Type: DATA
Engine: V606
Created: 13:58 Wednesday, November 6, 1991
Last Modified: 13:58 Wednesday, November 6, 1991
Label: Revetment Study: Jar Sampler

Observations: 53
Variables: 12
Indexes: 0
Observation Length: 98
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 17408
Number of Data Set Pages: 1
First Data Page: 1
Max Obs per Page: 158
Obs in First Data Page: 53
File : RV_JAR BENTHOS

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
9	CONV	Num	8	34		Density Conversion Factor (Nos/Sq M)
8	DATE	Num	8	26	DATE7.	Sampling Date
6	DEPTH	Num	8	15		Sample Depth (meters)
5	GEAR	Char	3	12		Sampling Gear
1	LOC	Char	3	0		Abbreviated Sampling Location
11	NUMBER	Num	8	50		Number of Individuals per Sample
4	SAMPNO	Char	2	10		Sample Number
10	SPPCODE	Num	8	42		Taxonomic Species Code
3	STATION	Char	3	7		Sampling Station
12	TAXA	Char	40	58		Taxonomic Name
2	TIME	Char	4	3		Time of Sample
7	VIS_SED	Char	3	23		Visual Sediment Classification

Data Set Name: BENTHOS.RV_PLN
Member Type: DATA
Engine: V606
Created: 13:58 Wednesday, November 6, 1991
Last Modified: 13:58 Wednesday, November 6, 1991
Label: Revetment Study: Plankton Net Sampler

Observations: 169
Variables: 14
Indexes: 0
Observation Length: 114
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 2048
Number of Data Set Pages: 12
First Data Page: 2
Max Obs per Page: 16
Obs in First Data Page: 15
File : RV_PLN BENTHOS

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
11	CONV	Num	8	50		Density Conversion Factor (Nos/Cubic M)
10	DATE	Num	8	42	DATE7.	Sampling Date
6	DEPTH	Num	8	15		Sample Depth (meters)
5	GEAR	Char	3	12		Sampling Gear
1	LOC	Char	3	0		Abbreviated Sampling Location
8	MINUTES	Num	8	26		Tow Length (Minutes)
13	NUMBER	Num	8	66		Number of Individuals per Sample
4	SAMPNO	Char	2	10		Sample Number
9	SECONDS	Num	8	34		Tow Length (Seconds)
12	SPPCODE	Num	8	58		Taxonomic Species Code
3	STATION	Char	3	7		Sampling Station
14	TAXA	Char	40	74		Taxonomic Name
2	TIME	Char	4	3		Time of Sample
7	VIS_SED	Char	3	23		Visual Sediment Classification

Data Set Name: BENTHOS.RV_SHK
Member Type: DATA
Engine: V606
Created: 13:58 Wednesday, November 6, 1991
Last Modified: 13:58 Wednesday, November 6, 1991
Label: Revetment Study: Shipek Sampler

Observations: 405
Variables: 12
Indexes: 0
Observation Length: 98
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 17408
Number of Data Set Pages: 3
First Data Page: 1
Max Obs per Page: 158
Obs in First Data Page: 141
File : RV_SHK BENTHOS

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
9	CONV	Num	8	34		Density Conversion Factor (Nos/Sq M)
8	DATE	Num	8	26	DATE7.	Sampling Date
6	DEPTH	Num	8	15		Sample Depth (meters)
5	GEAR	Char	3	12		Sampling Gear
1	LOC	Char	3	0		Abbreviated Sampling Location
11	NUMBER	Num	8	50		Number of Individuals per Sample
4	SAMPNO	Char	2	10		Sample Number
10	SPPCODE	Num	8	42		Taxonomic Species Code
3	STATION	Char	3	7		Sampling Station
12	TAXA	Char	40	58		Taxonomic Name
2	TIME	Char	4	3		Time of Sample
7	VIS_SED	Char	3	23		Visual Sediment Classification

Data Set Name: BENTHOS.RV_SNG
Member Type: DATA
Engine: V606
Created: 13:58 Wednesday, November 6, 1991
Last Modified: 13:58 Wednesday, November 6, 1991
Label: Revetment Study: Drifting Snag Samples

Observations: 250
Variables: 12
Indexes: 0
Observation Length: 98
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 17408
Number of Data Set Pages: 2
First Data Page: 1
Max Obs per Page: 158
Obs in First Data Page: 141
File : RV_SNG BENTHOS

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
9	CONV	Num	8	34		Density Conversion Factor (Nos/Sq M)
8	DATE	Num	8	26	DATE7.	Sampling Date
6	DEPTH	Num	8	15		Sample Depth (meters)
5	GEAR	Char	3	12		Sampling Gear
1	LOC	Char	3	0		Abbreviated Sampling Location
11	NUMBER	Num	8	50		Number of Individuals per Sample
4	SAMPNO	Char	2	10		Sample Number
10	SPPCODE	Num	8	42		Taxonomic Species Code
3	STATION	Char	3	7		Sampling Station
12	TAXA	Char	40	58		Taxonomic Name
2	TIME	Char	4	3		Time of Sample
7	VIS_SED	Char	3	23		Visual Sediment Classification

Data Set Name: BENTHOS.SC_BPN
Member Type: DATA
Engine: V606
Created: 13:58 Wednesday, November 6, 1991
Last Modified: 13:58 Wednesday, November 6, 1991
Label: Secondary Channels: Baby Ponar Sampler

Observations: 41
Variables: 12
Indexes: 0
Observation Length: 98
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 17408
Number of Data Set Pages: 1
First Data Page: 1
Max Obs per Page: 158
Obs in First Data Page: 41
File : SC_BPN BENTHOS

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
10	CONV	Num	8	42		Density Conversion Factor (Nos/Sq M)
7	DATE	Num	8	23	DATE7.	Sampling Date
4	DEPTH	Num	8	8		Sample Depth (meters)
8	GEAR	Char	3	31		Sampling Gear
1	LOC	Char	3	0		Abbreviated Sampling Location
11	NUMBER	Num	8	50		Number of Individuals per Sample
3	SAMPNO	Char	2	6		Sample Number
9	SPPCODE	Num	8	34		Taxonomic Species Code
2	STATION	Char	3	3		Sampling Station
12	TAXA	Char	40	58		Taxonomic Name
6	TIME	Char	4	19		Time of Sample
5	VIS_SED	Char	3	16		Visual Sediment Classification

Data Set Name: BENTHOS.SC_RCK
Member Type: DATA
Engine: V606
Created: 13:58 Wednesday, November 6, 1991
Last Modified: 13:58 Wednesday, November 6, 1991
Label: Secondary Channels: Rock Samples

Observations: 207
Variables: 12
Indexes: 0
Observation Length: 98
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 17408
Number of Data Set Pages: 2
First Data Page: 1
Max Obs per Page: 158
Obs in First Data Page: 141
File : SC_RCK BENTHOS

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
10	CONV	Num	8	42		Density Conversion Factor (Nos/Sq M)
7	DATE	Num	8	23	DATE7.	Sampling Date
4	DEPTH	Num	8	8		Sample Depth (meters)
8	GEAR	Char	3	31		Sampling Gear
1	LOC	Char	3	0		Abbreviated Sampling Location
11	NUMBER	Num	8	50		Number of Individuals per Sample
3	SAMPNO	Char	2	6		Sample Number
9	SPPCODE	Num	8	34		Taxonomic Species Code
2	STATION	Char	3	3		Sampling Station
12	TAXA	Char	40	58		Taxonomic Name
6	TIME	Char	4	19		Time of Sample
5	VIS_SED	Char	3	16		Visual Sediment Classification

Data Set Name: BENTHOS.SC_SHK
Member Type: DATA
Engine: V606
Created: 13:58 Wednesday, November 6, 1991
Last Modified: 13:58 Wednesday, November 6, 1991
Label: Secondary Channels: Shipek Sampler

Observations: 522
Variables: 12
Indexes: 0
Observation Length: 98
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 17408
Number of Data Set Pages: 4
First Data Page: 1
Max Obs per Page: 158
Obs in First Data Page: 141
File : SC_SHK BENTHOS

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
10	CONV	Num	8	42		Density Conversion Factor (Nos/Sq M)
7	DATE	Num	8	23	DATE7.	Sampling Date
4	DEPTH	Num	8	8		Sample Depth (meters)
8	GEAR	Char	3	31		Sampling Gear
1	LOC	Char	3	0		Abbreviated Sampling Location
11	NUMBER	Num	8	50		Number of Individuals per Sample
3	SAMPNO	Char	2	6		Sample Number
9	SPPCODE	Num	8	34		Taxonomic Species Code
2	STATION	Char	3	3		Sampling Station
12	TAXA	Char	40	58		Taxonomic Name
6	TIME	Char	4	19		Time of Sample
5	VIS_SED	Char	3	16		Visual Sediment Classification

Appendix D

Lower Mississippi River Environmental Program
Benthological Biomass Databases

Contents Procedure
SAS Data Library Directory

Page	Name	Library	Memtype	#Obs	Label
D2	BP_BPN	BIOMASS	DATA	300	Borrow Pit: Biomass-Baby Ponar Sampler
D3	DF_SHK	BIOMASS	DATA	816	Dike Fields: Biomass-Shipek Sampler
D4	RV_ACB	BIOMASS	DATA	133	Revetment: Biomass-Articulated Concrete Block (ACB) Sampler
D5	RV_ACS	BIOMASS	DATA	90	Revetment: Biomass-Articulated Concrete Slab (ACS) Sampler
D6	RV_SNG	BIOMASS	DATA	123	Revetment: Biomass-Drifting Snag Samples
D7	SC_RCK	BIOMASS	DATA	72	Secondary Channels: Biomass Rock Samples

Data Set Name: BIOMASS.BP_BPN
Member Type: DATA
Engine: V606
Created: 13:37 Wednesday, November 6, 1991
Last Modified: 13:37 Wednesday, November 6, 1991
Label: Borrow Pit: Biomass Baby Ponar Sampler

Observations: 300
Variables: 8
Indexes: 0
Observation Length: 43
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 17408
Number of Data Set Pages: 2
First Data Page: 1
Max Obs per Page: 316
Obs in First Data Page: 292
File : BP_BPN BIOMASS

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
5	CONV	Num	8	16		Conversion Factor to Sq Meters
3	DATE	Num	8	6	DATE7.	Sampling Date
7	DRY_WT1	Num	8	27		Dry Weight (mg)
8	DRY_WT2	Num	8	35		Dry Weight (mg) per Sq Meter
6	GEAR	Char	3	24		Sampling Gear
1	LOC	Char	3	0		Abbreviated Sampling Location
4	SAMPNO	Char	2	14		Sample Number
2	STATION	Char	3	3		Sampling Station

Data Set Name: BIOMASS.DF_SHK
Member Type: DATA
Engine: V606
Created: 13:37 Wednesday, November 6, 1991
Last Modified: 13:37 Wednesday, November 6, 1991
Label: Dike Fields: Biomass-Shipek Sampler

Observations: 816
Variables: 8
Indexes: 0
Observation Length: 43
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 17408
Number of Data Set Pages: 3
First Data Page: 1
Max Obs per Page: 316
Obs in First Data Page: 292
File : DF_SHK BIOMASS

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
5	CONV	Num	8	16		Conversion Factor to Sq Meters
3	DATE	Num	8	5	DATE7.	Sampling Date
7	DRY_WT1	Num	8	27		Dry Weight (mg)
8	DRY_WT2	Num	8	35		Dry Weight (mg) per Sq Meter
6	GEAR	Char	3	24		Sampling Gear
4	LOC	Char	3	13		Abbreviated Sampling Location
2	SAMPNO	Char	2	3		Sample Number
1	STATION	Char	3	0		Sampling Station ID

Data Set Name: BIOMASS.RV_ACB
Member Type: DATA
Engine: V606
Created: 13:37 Wednesday, November 6, 1991
Last Modified: 13:37 Wednesday, November 6, 1991
Label: Revetment: Biomass-ACB Sampler

Observations: 133
Variables: 17
Indexes: 0
Observation Length: 136
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 10240
Number of Data Set Pages: 3
First Data Page: 1
Max Obs per Page: 69
Obs in First Data Page:
File : RV_ACB BIOMASS

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
5	ASH_WT1	Num	8	27		Ash Free Weight (mg)
13	ASH_WT2	Num	8	91		Ash Free Weight (mg) / Sq M of Block
14	ASH_WT3	Num	8	99		Ash Free Weight (mg) / Sq M of Habitat
7	CONV1	Num	8	43		Conversion Factor to Sq M of Block
8	CONV2	Num	8	51		Conversion Factor to Sq M of Habitat
17	DATE	Num	8	128	DATE7.	Sampling Date
4	DRY_WT1	Num	8	19		Dry Weight (mg)
11	DRY_WT2	Num	8	75		Dry Weight (mg) / Sq M of Block
12	DRY_WT3	Num	8	83		Dry Weight (mg) / Sq M of Habitat
1	LOC	Char	3	0		Sampling Location
3	NAME	Char	15	4		Benthic Group
6	NUMBER	Num	8	35		Total Number of Individuals
9	NUMBER1	Num	8	59		Number / Sq M of Block
10	NUMBER2	Num	8	67		Number / Sq M of Habitat
15	S_CODE	Char	1	107		Habitat Surface Type Code
2	STATION	Char	1	3		Sampling Station
16	SURFACE	Char	20	108		Habitat Surface Type

Data Set Name: BIOMASS.RV_ACS
Member Type: DATA
Engine: V606
Created: 13:37 Wednesday, November 6, 1991
Last Modified: 13:37 Wednesday, November 6, 1991
Label: Revetment: Biomass-ACS Sampler

Observations: 90
Variables: 10
Indexes: 0
Observation Length: 61
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 14336
Number of Data Set Pages: 1
First Data Page: 1
Max Obs per Page: 196
Obs in First Data Page: 90
File : RV_ACS BIOMASS

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
9	CONV	Num	8	45		Conversion Factor to Sq Meters
1	DATE	Num	8	0	DATE7.	Sampling Date
8	DRT_WT1	Num	8	37		Dry Weight (mg)
10	DRY_WT2	Num	8	53		Dry Weight (mg) per Sq Meter
3	GEAR	Char	3	11		Sampling Gear
2	LOC	Char	3	8		Sampling Location
6	NAME	Char	10	19		Benthic Group
7	NUMBER	Num	8	29		Number of Individuals
4	SAMPNO	Char	2	14		Sample Number
5	STATION	Char	3	16		Sampling Station ID

Data Set Name: BIOMASS.RV_SNG
Member Type: DATA
Engine: V606
Created: 13:37 Wednesday, November 6, 1991
Last Modified: 13:37 Wednesday, November 6, 1991
Label: Revetment: Biomass-Drifting Snag Samples

Observations: 123
Variables: 10
Indexes: 0
Observation Length: 61
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 14336
Number of Data Set Pages: 1
First Data Page: 1
Max Obs per Page: 196
Obs in First Data Page: 123
File : RV_SNG BIOMASS

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
9	CONV	Num	8	45		Conversion Factor to Sq Meters
1	DATE	Num	8	0	DATE7.	Sampling Date
8	DRY_WT1	Num	8	37		Dry_wt (mg)
10	DRY_WT2	Num	8	53		Dry_wt (mg) per Sq Meter
3	GEAR	Char	3	11		Sampling Gear
2	LOC	Char	3	8		Sampling Location
6	NAME	Char	10	19		Benthic Group
7	NUMBER	Num	8	29		Number of Individuals
4	SAMPNO	Char	2	14		Sample Number
5	STATION	Char	3	16		Station Id

Data Set Name: BIOMASS.SC_RCK
Member Type: DATA
Engine: V606
Created: 13:37 Wednesday, November 6, 1991
Last Modified: 13:37 Wednesday, November 6, 1991
Label: Secondary Channels: Biomass Rock Samples

Observations: 72
Variables: 9
Indexes: 0
Observation Length: 89
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 2048
Number of Data Set Pages: 5
First Data Page: 1
Max Obs per Page: 20
Obs in First Data Page: 5
File : SC_RCK BIOMASS

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
4	CONV	Num	8	9		Total*Sq CM of*Rocks
9	DATE	Num	8	81	DATE7.	Sampling Date
5	DRT_WT1	Num	8	17		Dry Weight (mg)
8	DRY_WT2	Num	8	73		Dry Weight (mg) per Square Meter
3	GEAR	Char	3	6		Rock Samples
1	LOC	Char	3	0		Sampling Location
6	NAME	Char	40	25		Benthic Group
7	SPPCODE	Num	8	65		Species Code
2	STATION	Char	3	3		Sampling Station ID

Appendix E

Lower Mississippi River Environmental Program
Water Quality Databases

Contents Procedure
SAS Data Library Directory

Page	Name	Library	Memtype	#Obs	Label
E2	BP	WATERQTY	DATA	160	Borrow Pit: Water Quality
E3	DF	WATERQTY	DATA	1246	Dike Field Systems: Water Quality
E4	DFP	WATERQTY	DATA	1104	Dike Field Pools: Water Quality
E5	DFP_CHL	WATERQTY	DATA	178	Dike Field Pools: Chorophyl
E6	EDDY	WATERQTY	DATA	720	Revetment Eddy: Water Quality
E7	FPL	WATERQTY	DATA	80	Flood Plain Lakes: Water Quality
E8	RV	WATERQTY	DATA	1234	Revetment: Water Quality
E9	SC	WATERQTY	DATA	216	Secondary Channels: Water Quality

Data Set Name: WATERQTY.BP
Member Type: DATA
Engine: V606
Created: 14:20 Wednesday, November 6, 1991
Last Modified: 14:20 Wednesday, November 6, 1991
Label: Borrow Pit: Water Quality

Observations: 160
Variables: 20
Indexes: 0
Observation Length: 140
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 3072
Number of Data Set Pages: 9
First Data Page: 1
Max Obs per Page: 20
Obs in First Data Page: 1
File : BP WATERQTY

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
9	COND	Num	8	44		Conductivity (umh0)
15	CURRENT	Num	8	92		Current Speed (cm/sec)
13	DATE	Num	8	76	DATE7.	Sampling Date
16	DIR	Num	8	100		Current Direction
8	DO	Num	8	36		Dissolved Oxygen (mg/l)
3	LOC	Char	3	5		Abbreviated Sampling Location
5	MAXDEPTH	Num	8	12		Maximum Water Depth (meters)
11	ORP	Num	8	60		Oxidation Reduction Potential (mv)
10	PH	Num	8	52		Acidity Measure (pH)
6	SAMDEPTH	Num	8	20		Sample Depth (meters)
2	SAMPNO	Char	2	3		Sample Number
14	SECCHI	Num	8	84		Secchi Disk (inches)
1	STATION	Char	3	0		Sampling Station
17	SUSP_S	Num	8	108		Suspended Solids (mg/l)
7	TEMP	Num	8	28		Water Temperature (Degrees C)
4	TIME	Char	4	8		Sampling Time
18	TOT_C	Num	8	116		Total Organic Carbon (mg/l)
19	TOT_S	Num	8	124		Total Solids (mg/l)
12	TURBID	Num	8	68		Turbidity (NTU)
20	VOL_SS	Num	8	132		Volatile Solids (mg/l)

Data Set Name: WATERQTY.DF
Member Type: DATA
Engine: V606
Created: 14:20 Wednesday, November 6, 1991
Last Modified: 14:20 Wednesday, November 6, 1991
Label: Dike Field Systems: Water Quality

Observations: 1246
Variables: 20
Indexes: 0
Observation Length: 140
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 3072
Number of Data Set Pages: 64
First Data Page: 1
Max Obs per Page: 20
Obs in First Data Page: 1
File : DF WATERQTY

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
11	COND	Num	8	60		Conductivity (umho)
15	CURRENT	Num	8	92		Current Speed (cm/sec)
1	DATE	Num	8	0	DATE7.	Sampling Date
14	DIR	Num	8	84		Current Direction
10	DO	Num	8	52		Dissolved Oxygen (mg/l)
2	LOC	Char	3	8		Abbreviated Sampling Location
5	MAXDEPTH	Num	8	18		Maximum Water Depth (meters)
13	ORP	Num	8	76		Oxidation Reduction Potential (mv)
12	PH	Num	8	68		Acidity Measure (pH)
8	SAMDEPTH	Num	8	36		Sample Depth (meters)
6	SAMPNO	Char	2	26		Sample Number
7	SECCHI	Num	8	28		Secchi Disk (inches)
3	STATION	Char	3	11		Sampling Station
16	SUSP_S	Num	8	100		Suspended Solids (mg/l)
9	TEMP	Num	8	44		Water Temperature (Degrees C)
4	TIME	Char	4	14		Sampling Time
19	TOT_C	Num	8	124		Total Organic Carbon (mg/l)
18	TOT_S	Num	8	116		Total Solids (mg/l)
17	TURBID	Num	8	108		Turbidity (JTU)
20	VOL_SS	Num	8	132		Volatile Solids (mg/l)

Data Set Name: WATERQTY.DFP
Member Type: DATA
Engine: V606
Created: 14:20 Wednesday, November 6, 1991
Last Modified: 14:20 Wednesday, November 6, 1991
Label: Dike Field Pools: Water Quality

Observations: 1104
Variables: 20
Indexes: 0
Observation Length: 140
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 3072
Number of Data Set Pages: 57
First Data Page: 1
Max Obs per Page: 20
Obs in First Data Page: 1
File : DFP WATERQTY

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
11	COND	Num	8	60		Conductivity (umho)
15	CURRENT	Num	8	92		Current Speed (cm/sec)
1	DATE	Num	8	0	DATE7.	Sampling Date
14	DIR	Num	8	84		Current Direction
10	DO	Num	8	52		Dissolved Oxygen (mg/l)
2	LOC	Char	3	8		Abbreviated Sampling Location
6	MAXDEPTH	Num	8	20		Maximum Water Depth (meters)
13	ORP	Num	8	76		Oxidation Reduction Potential (mv)
12	PH	Num	8	68		Acidity Measure (pH)
7	SAMDEPTH	Num	8	28		Sample Depth (meters)
5	SAMPNO	Char	2	18		Sample Number
8	SECCHI	Num	8	36		Secchi Disk (inches)
3	STATION	Char	3	11		Sampling Station
18	SUSP_S	Num	8	116		Suspended Solids (mg/l)
9	TEMP	Num	8	44		Water Temperature (Degrees C)
4	TIME	Char	4	14		Sampling Time
19	TOT_C	Num	8	124		Total Organic Carbon (mg/l)
20	TOT_S	Num	8	132		Total Solids (mg/l)
16	TURBID	Num	8	100		Turbidity (JTU)
17	VOL_SS	Num	8	108		Volatile Solids (mg/l)

Data Set Name: WATERQTY.DFP_CHL
Member Type: DATA
Engine: V606
Created: 14:20 Wednesday, November 6, 1991
Last Modified: 14:20 Wednesday, November 6, 1991
Label: Dike Field Pools: Chlorophyl Data

Observations: 178
Variables: 11
Indexes: 0
Observation Length: 72
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 7168
Number of Data Set Pages: 3
First Data Page: 1
Max Obs per Page: 85
Obs in First Data Page: 65
File : DFP_CHL WATERQTY

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
7	CHL_A	Num	8	32		Chlorophyl A
8	CHL_B	Num	8	40		Chlorophyl B
9	CHL_C	Num	8	48		Chlorophyl C
10	CHL_D	Num	8	56		Chlorophyl D
1	DATE	Num	8	0	DATE7.	Sampling Date
2	LOC	Char	3	8		Dike Field Pool ID
11	PHAEO	Num	8	64		Phaeophytin
5	SAMDEPTH	Num	8	22		Sample Depth (meters)
6	SAMPNO	Char	2	30		Sample Number
3	STATION	Char	3	11		Sampling Station ID
4	TIME	Num	8	14		Sampling Time

Data Set Name: WATERQTY.EDDY
Member Type: DATA
Engine: V606
Created: 14:20 Wednesday, November 6, 1991
Last Modified: 14:20 Wednesday, November 6, 1991
Label: Revetment Eddy: Water Quality

Observations: 720
Variables: 20
Indexes: 0
Observation Length: 140
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 3072
Number of Data Set Pages: 37
First Data Page: 1
Max Obs per Page: 20
Obs in First Data Page: 1
File : EDDY WATERQTY

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
7	COND	Num	8	38		Conductivity (umho)
9	CURRENT	Num	8	54		Current Speed (cm/sec)
12	DATE	Num	8	78	DATE7.	Sampling Date
10	DIR	Num	8	62		Current Direction
6	DO	Num	8	30		Dissolved Oxygen (mg/l)
1	LOC	Char	3	0		Abbreviated Sampling Location
3	MAXDEPTH	Num	8	6		Maximum Water Depth (meters)
18	ORP	Num	8	120		Oxidation Reduction Potential (mv)
8	PH	Num	8	46		Acidity Measure (pH)
4	SAMDEPTH	Num	8	14		Sample Depth (meters)
13	SAMPNO	Char	2	86		Sample Number
17	SECCHI	Num	8	112		Secchi Disk (inches)
2	STATION	Char	3	3		Sampling Station
14	SUSP_S	Num	8	88		Suspended Solids (mg/l)
5	TEMP	Num	8	22		Water Temperature (Degrees C)
19	TIME	Char	4	128		Sampling Time
15	TOT_C	Num	8	96		Total Organic Carbon (mg/l)
16	TOT_S	Num	8	104		Total Solids (mg/l)
11	TURBID	Num	8	70		Turbidity (JTU)
20	VOL_SS	Num	8	132		Volatile Solids (mg/l)

Data Set Name: WATERQTY.FPL
Member Type: DATA
Engine: V606
Created: 14:20 Wednesday, November 6, 1991
Last Modified: 14:20 Wednesday, November 6, 1991
Label: Flood Plain Lakes: Water Quality

Observations: 80
Variables: 21
Indexes: 0
Observation Length: 162
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 16384
Number of Data Set Pages: 2
First Data Page: 1
Max Obs per Page: 94
Obs in First Data Page: 77
File : FPL WATERQTY

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
5	COND	Num	8	25		Conductivity (umho)
15	CURRENT	Num	8	111		Current Speed (cm/sec)
12	DATE	Num	8	81	DATE7.	Sampling Date
16	DIR	Num	8	119		Current Direction
6	DO	Num	8	33		Dissolved Oxygen (mg/l)
21	LOC	Char	3	159		Abbreviated Sampling Location
14	LOCATION	Char	14	97		Oxbow Lake
19	MAXDEPTH	Num	8	143		Maximum Water Depth (meters)
8	ORP	Num	8	49		Oxidation Reduction Potential (mv)
7	PH	Num	8	41		Acidity Measure (pH)
3	SAMDEPTH	Num	8	9		Sample Depth (meters)
20	SAMPNO	Num	8	151		Sample Number
13	SECCHI	Num	8	89		Secchi Disk (inches)
1	STATION	Char	1	0		Sampling Station
10	SUSP_S	Num	8	65		Suspended Solids (mg/l)
4	TEMP	Num	8	17		Water Temperature (Degrees C)
2	TIME	Num	8	1		Sampling Time
17	TOT_C	Num	8	127		Total Organic Carbon (mg/l)
18	TOT_S	Num	8	135		Total Solids (mg/l)
9	TURBID	Num	8	57		Turbidity (NTU)
11	VOL_SS	Num	8	73		Volatile Solids (mg/l)

Data Set Name: WATERQTY.RV
Member Type: DATA
Engine: V606
Created: 14:20 Wednesday, November 6, 1991
Last Modified: 14:20 Wednesday, November 6, 1991
Label: Revetment: Water Quality

Observations: 1234
Variables: 20
Indexes: 0
Observation Length: 140
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 3072
Number of Data Set Pages: 63
First Data Page: 1
Max Obs per Page: 20
Obs in First Data Page: 1
File : RV WATERQTY

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
10	COND	Num	8	52		Conductivity (umho)
14	CURRENT	Num	8	84		Current Speed (cm/sec)
1	DATE	Num	8	0	DATE7.	Sampling Date
13	DIR	Num	8	76		Current Direction
9	DO	Num	8	44		Dissolved Oxygen (mg/l)
2	LOC	Char	3	8		Abbreviated Sampling Location
6	MAXDEPTH	Num	8	20		Maximum Water Depth (meters)
12	ORP	Num	8	68		Oxidation Reduction Potential (mv)
11	PH	Num	8	60		Acidity Measure (pH)
7	SAMDEPTH	Num	8	28		Sample Depth (meters)
5	SAMPNO	Char	2	18		Sample Number
19	SECCHI	Num	8	124		Secchi Disk (inches)
3	STATION	Char	3	11		Sampling Station
16	SUSP_S	Num	8	100		Suspended Solids (mg/l)
8	TEMP	Num	8	36		Water Temperature (Degrees C)
4	TIME	Char	4	14		Sampling Time
17	TOT_C	Num	8	108		Total Organic Carbon (mg/l)
15	TOT_S	Num	8	92		Total Solids (mg/l)
18	TURBID	Num	8	116		Turbidity (JTU)
20	VOL_SS	Num	8	132		Volatile Solids (mg/l)

Data Set Name: WATERQTY.SC
Member Type: DATA
Engine: V606
Created: 14:20 Wednesday, November 6, 1991
Last Modified: 14:20 Wednesday, November 6, 1991
Label: Secondary Channels: Water Quality

Observations: 216
Variables: 20
Indexes: 0
Observation Length: 140
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 3072
Number of Data Set Pages: 12
First Data Page: 1
Max Obs per Page: 20
Obs in First Data Page: 1
File : SC WATERQTY

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
10	COND	Num	8	52		Conductivity (umho)
13	CURRENT	Num	8	76		Current Speed (cm/sec)
1	DATE	Num	8	0	DATE7.	Sampling Date
12	DIR	Num	8	68		Current Direction
9	DO	Num	8	44		Dissolved Oxygen (mg/l)
2	LOC	Char	3	8		Abbreviated Sampling Location
4	MAXDEPTH	Num	8	14		Maximum Water Depth (meters)
18	ORP	Num	8	116		Oxidation Reduction Potential (mv)
11	PH	Num	8	60		Acidity Measure (pH)
7	SAMDEPTH	Num	8	28		Sample Depth (meters)
6	SAMPNO	Char	2	26		Sample Number
19	SECCHI	Num	8	124		Secchi Disk (inches)
3	STATION	Char	3	11		Sampling Station
17	SUSP_S	Num	8	108		Suspended Solids (mg/l)
8	TEMP	Num	8	36		Water Temperature (Degrees C)
5	TIME	Char	4	22		Sampling Time
16	TOT_C	Num	8	100		Total Organic Carbon (mg/l)
15	TOT_S	Num	8	92		Total Solids (mg/l)
14	TURBID	Num	8	84		Turbidity (JTU)
20	VOL_SS	Num	8	132		Volatile Solids (mg/l)

Appendix F

Lower Mississippi River Environmental Program
Sediment Investigations

Contents Procedure
SAS Data Library Directory

Page	Name	Library	Memtype	#Obs	Label
F2	BP	SEDIMENT	DATA	150	Borrow Pit: Sediment Characteristics
F3	DF	SEDIMENT	DATA	894	Dike Field: Sediment Characteristics
F4	DFP	SEDIMENT	DATA	131	Dike Field Pool: Sediment Characteristic
F5	EDDY	SEDIMENT	DATA	25	Revetment Eddy: Sediment Characteristics
F6	FPL	SEDIMENT	DATA	162	Floodplain Lake: Sediment Characteristic
F7	RV	SEDIMENT	DATA	84	Revetment: Sediment Characteristics
F8	SC	SEDIMENT	DATA	36	Second Channels: Sediment Characteristic
F9	LWRP10	SEDDATA	DATA	212	Miss. River Dike Sediment LWRP +10ft
F10	SANDBAR	SEDDATA	DATA	785	Miss. River Sandbar LWRP +10ft
F11	ALLDIKES	SEDDATA	DATA	7993	Miss. River Dike Sedimentation Data

Data Set Name: SEDIMENT.BP
Member Type: DATA
Engine: V606
Created: 14:18 Wednesday, November 6, 1991
Last Modified: 14:18 Wednesday, November 6, 1991
Label: Borrow Pit Sediment Characteristics

Observations: 150
Variables: 9
Indexes: 0
Observation Length: 93
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 7168
Number of Data Set Pages: 3
First Data Page: 1
Max Obs per Page: 68
Obs in First Data Page: 54
File : BP SEDIMENT

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
2	BANK	Char	8	8		(R-Right Bank, L-Left Bank)
9	DATE	Num	8	85	DATE7.	Sampling Date
7	GEAR	Char	8	69		Sampling Gear
4	LOC	Char	8	45		Abbreviated Sampling Location
3	LOCATION	Char	29	16		Sampling Location
8	PCT_FINE	Num	8	77		Percent Silt-Clay Fraction
1	RV_MILE	Num	8	0		River Mile
6	SAMPNO	Char	8	61		Sample Number
5	STATION	Char	8	53		Sampling Station

Data Set Name: SEDIMENT.DF
Member Type: DATA
Engine: V606
Created: 14:18 Wednesday, November 6, 1991
Last Modified: 14:18 Wednesday, November 6, 1991
Label: Dike Field: Sediment Characteristics

Observations: 894
Variables: 10
Indexes: 0
Observation Length: 67
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 17408
Number of Data Set Pages: 5
First Data Page: 1
Max Obs per Page: 220
Obs in First Data Page: 200
File : DF SEDIMENT

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
2	CS	Num	8	8	Coarse Sand Fraction
4	FS	Num	8	24	Fine Sand Fraction
6	LOC	Char	3	40	Abbreviated Sampling Location
3	MS	Num	8	16	Medium Sand Fraction
7	SAMPNO	Char	5	43	Sample Number
5	SC	Num	8	32	Sand Clay Fraction
9	SED_MODE	Char	3	56	Modal Sediment Classification
1	TOTAL	Num	8	0	Total Weight
8	VFS	Num	8	48	Very Fine Sand Fraction
10	YEAR	Num	8	59	Sampling Year

Data Set Name: SEDIMENT.DFP
Member Type: DATA
Engine: V606
Created: 14:18 Wednesday, November 6, 1991
Last Modified: 14:18 Wednesday, November 6, 1991
Label: Dike Field Pool: Sediment Characteristic

Observations: 131
Variables: 29
Indexes: 0
Observation Length: 216
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 31744
Number of Data Set Pages: 2
First Data Page: 1
Max Obs per Page: 139
Obs in First Data Page: 122
File : DFP SEDIMENT

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
28	DATE	Num	8	200	DATE7.	Sampling Date
4	DAY	Num	8	8		Sampling Day
1	LOC	Char	3	0		Abbreviated Sampling Location
5	MONTH	Num	8	16		Sampling Month
15	NO_3	Num	8	96		Cumulative Weight in Sieve #3
16	NO_4	Num	8	104		Cumulative Weight in Sieve #4
17	NO_6	Num	8	112		Cumulative Weight in Sieve #6
18	NO_10	Num	8	120		Cumulative Weight in Sieve #10
19	NO_16	Num	8	128		Cumulative Weight in Sieve #16
20	NO_20	Num	8	136		Cumulative Weight in Sieve #20
21	NO_30	Num	8	144		Cumulative Weight in Sieve #30
22	NO_40	Num	8	152		Cumulative Weight in Sieve #40
23	NO_50	Num	8	160		Cumulative Weight in Sieve #50
24	NO_70	Num	8	168		Cumulative Weight in Sieve #70
25	NO_100	Num	8	176		Cumulative Weight in Sieve #100
26	NO_140	Num	8	184		Cumulative Weight in Sieve #140
27	NO_200	Num	8	192		Cumulative Weight in Sieve #200
3	SAMPNO	Char	2	6		Sample Number
2	STATION	Char	3	3		Sampling Station
7	TOT_WT	Num	8	32		Total Sample Weight (g)
29	TOT_WT1	Num	8	208		Sub-sample Weight (g)
11	X_1	Num	8	64		Weight in 1 Inch Class
9	X_2	Num	8	48		Weight in 2 Inch Class
8	X_3	Num	8	40		Weight in 3 Inch Class
10	X_15	Num	8	56		Weight in 1.5 Inch Class
13	X_50	Num	8	80		Weight in 0.50 Inch Class
12	X_75	Num	8	72		Weight in 0.75 Inch Class
14	X_375	Num	8	88		Weight in 0.375 Inch Class
6	YEAR	Num	8	24		Sampling Year

Data Set Name: SEDIMENT.EDDY
Member Type: DATA
Engine: V606
Created: 14:18 Wednesday, November 6, 1991
Last Modified: 14:18 Wednesday, November 6, 1991
Label: Revetment Eddy: Sediment Characteristics

Observations: 25
Variables: 29
Indexes: 0
Observation Length: 216
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 31744
Number of Data Set Pages: 1
First Data Page: 1
Max Obs per Page: 139
Obs in First Data Page: 25
File : EDDY SEDIMENT

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
28	DATE	Num	8	200	DATE7.	Sampling Date
4	DAY	Num	8	8		Sampling Day
1	LOC	Char	3	0		Abbreviated Sampling Location
5	MONTH	Num	8	16		Sampling Month
15	NO_3	Num	8	96		Cumulative Weight in Sieve #3
16	NO_4	Num	8	104		Cumulative Weight in Sieve #4
17	NO_6	Num	8	112		Cumulative Weight in Sieve #6
18	NO_10	Num	8	120		Cumulative Weight in Sieve #10
19	NO_16	Num	8	128		Cumulative Weight in Sieve #16
20	NO_20	Num	8	136		Cumulative Weight in Sieve #20
21	NO_30	Num	8	144		Cumulative Weight in Sieve #30
22	NO_40	Num	8	152		Cumulative Weight in Sieve #40
23	NO_50	Num	8	160		Cumulative Weight in Sieve #50
24	NO_70	Num	8	168		Cumulative Weight in Sieve #70
25	NO_100	Num	8	176		Cumulative Weight in Sieve #100
26	NO_140	Num	8	184		Cumulative Weight in Sieve #140
27	NO_200	Num	8	192		Cumulative Weight in Sieve #200
3	SAMPNO	Char	2	6		Sample Number
2	STATION	Char	3	3		Sampling Station
7	TOT_WT	Num	8	32		Total Sample Weight (g)
29	TOT_WT1	Num	8	208		Sub-sample Weight (g)
11	X_1	Num	8	64		Weight in 1 Inch Class
9	X_2	Num	8	48		Weight in 2 Inch Class
8	X_3	Num	8	40		Weight in 3 Inch Class
10	X_15	Num	8	56		Weight in 1.5 Inch Class
13	X_50	Num	8	80		Weight in 0.50 Inch Class
12	X_75	Num	8	72		Weight in 0.75 Inch Class
14	X_375	Num	8	88		Weight in 0.375 Inch Class
6	YEAR	Num	8	24		Sampling Year

Data Set Name: SEDIMENT.FPL
Member Type: DATA
Engine: V606
Created: 14:18 Wednesday, November 6, 1991
Last Modified: 14:18 Wednesday, November 6, 1991
Label: Floodplain Lake: Sediment Characteristic

Observations: 162
Variables: 12
Indexes: 0
Observation Length: 106
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 21504
Number of Data Set Pages: 1
First Data Page: 1
Max Obs per Page: 182
Obs in First Data Page: 162
File : FPL SEDIMENT

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
4	COARSE	Num	8	10		0.500 - 2.000 mm
8	DATE	Num	8	42	DATE7.	Sampling Date
5	FINE	Num	8	18		0.125 - 0.500 mm
3	GRAN	Num	8	2		Greater Than 2.000 mm
12	LOC	Char	14	92		Abbreviated Sampling Location
9	LOCATION	Char	14	50		Oxbow Lake
10	RV_MILE	Num	8	64		River Mile
2	SAMPNO	Char	1	1		Sample Number
7	SILT	Num	8	34		Less Than 0.063 mm
11	ST_DES	Char	20	72		Station Description
1	STATION	Char	1	0		Sampling Station
6	V_FINE	Num	8	26		0.063 - 0.125 mm

Data Set Name: SEDIMENT.RV
Member Type: DATA
Engine: V606
Created: 14:18 Wednesday, November 6, 1991
Last Modified: 14:18 Wednesday, November 6, 1991
Label: Revetment Sediment Characteristics

Observations: 84
Variables: 29
Indexes: 0
Observation Length: 216
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 31744
Number of Data Set Pages: 1
First Data Page: 1
Max Obs per Page: 139
Obs in First Data Page: 84
File : RV SEDIMENT

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
28	DATE	Num	8	200	DATE7.	Sampling Date
4	DAY	Num	8	8		Sampling Day
1	LOC	Char	3	0		Abbreviated Sampling Location
5	MONTH	Num	8	16		Sampling Month
15	NO_3	Num	8	96		Cumulative Weight in Sieve #3
16	NO_4	Num	8	104		Cumulative Weight in Sieve #4
17	NO_6	Num	8	112		Cumulative Weight in Sieve #6
18	NO_10	Num	8	120		Cumulative Weight in Sieve #10
19	NO_16	Num	8	128		Cumulative Weight in Sieve #16
20	NO_20	Num	8	136		Cumulative Weight in Sieve #20
21	NO_30	Num	8	144		Cumulative Weight in Sieve #30
22	NO_40	Num	8	152		Cumulative Weight in Sieve #40
23	NO_50	Num	8	160		Cumulative Weight in Sieve #50
24	NO_70	Num	8	168		Cumulative Weight in Sieve #70
25	NO_100	Num	8	176		Cumulative Weight in Sieve #100
26	NO_140	Num	8	184		Cumulative Weight in Sieve #140
27	NO_200	Num	8	192		Cumulative Weight in Sieve #200
3	SAMPNO	Char	2	6		Sample Number
2	STATION	Char	3	3		Sampling Station
7	TOT_WT	Num	8	32		Total Sample Weight (g)
29	TOT_WT1	Num	8	208		Sub-sample Weight (g)
11	X_1	Num	8	64		Weight in 1 Inch Class
9	X_2	Num	8	48		Weight in 2 Inch Class
8	X_3	Num	8	40		Weight in 3 Inch Class
10	X_15	Num	8	56		Weight in 1.5 Inch Class
13	X_50	Num	8	80		Weight in 0.50 Inch Class
12	X_75	Num	8	72		Weight in 0.75 Inch Class
14	X_375	Num	8	88		Weight in 0.375 Inch Class
6	YEAR	Num	8	24		Sampling Year

Data Set Name: SEDIMENT.SC
Member Type: DATA
Engine: V606
Created: 14:18 Wednesday, November 6, 1991
Last Modified: 14:18 Wednesday, November 6, 1991
Label: Second Channels: Sediment Characteristic

Observations: 36
Variables: 29
Indexes: 0
Observation Length: 216
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 31744
Number of Data Set Pages: 1
First Data Page: 1
Max Obs per Page: 139
Obs in First Data Page: 36
File : SC SEDIMENT

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
28	DATE	Num	8	200	DATE7.	Sampling Date
4	DAY	Num	8	8		Sampling Day
1	LOC	Char	3	0		Abbreviated Sampling Location
5	MONTH	Num	8	16		Sampling Month
15	NO_3	Num	8	96		Cumulative Weight in Sieve #3
16	NO_4	Num	8	104		Cumulative Weight in Sieve #4
17	NO_6	Num	8	112		Cumulative Weight in Sieve #6
18	NO_10	Num	8	120		Cumulative Weight in Sieve #10
19	NO_16	Num	8	128		Cumulative Weight in Sieve #16
20	NO_20	Num	8	136		Cumulative Weight in Sieve #20
21	NO_30	Num	8	144		Cumulative Weight in Sieve #30
22	NO_40	Num	8	152		Cumulative Weight in Sieve #40
23	NO_50	Num	8	160		Cumulative Weight in Sieve #50
24	NO_70	Num	8	168		Cumulative Weight in Sieve #70
25	NO_100	Num	8	176		Cumulative Weight in Sieve #100
26	NO_140	Num	8	184		Cumulative Weight in Sieve #140
27	NO_200	Num	8	192		Cumulative Weight in Sieve #100
3	SAMPNO	Char	2	6		Sample Number
2	STATION	Char	3	3		Sampling Station
7	TOT_WT	Num	8	32		Total Sample Weight (g)
29	TOT_WT1	Num	8	208		Sub-sample Weight (g)
11	X_1	Num	8	64		Weight in 1 Inch Class
9	X_2	Num	8	48		Weight in 2 Inch Class
8	X_3	Num	8	40		Weight in 3 Inch Class
10	X_15	Num	8	56		Weight in 1.5 Inch Class
13	X_50	Num	8	80		Weight in 0.50 Inch Class
12	X_75	Num	8	72		Weight in 0.75 Inch Class
14	X_375	Num	8	88		Weight in 0.375 Inch Class
6	YEAR	Num	8	24		Sampling Year

Data Set Name: SEDDATA.LWRP10
Member Type: DATA
Engine: V606
Created: 12:56 Tuesday, February 25, 1992
Last Modified: 12:56 Tuesday, February 25, 1992
Label: Miss. River Dike Sediment LWRP +10ft

Observations: 212
Variables: 14
Indexes: 0
Observation Length: 116
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 1024
Number of Data Set Pages: 33
First Data Page: 3
Max Obs per Page: 7
Obs in First Data Page: 6
File : LWRP10 SEDDATA

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
8	ACRES	Num	8	60	5.1	Surface Area (ac)
14	CONYEAR	Num	8	108		Year Dike Built
7	DATE	Num	8	52	DATE7.	Survay Date
12	DEPTH_FT	Num	8	92	4.1	Mean Depth (ft)
13	DEPTH_M	Num	8	100	4.1	Mean Depth (m)
3	DIKE_NUM	Num	8	39		Dike System Number
2	DIKENAME	Char	31	8		Dike Name
5	GEOMORPH	Char	2	49		Geomorphic Type
11	HECTARES	Num	8	84	5.1	Surface Area (ha)
6	PROFILE	Char	1	51		System Profile
4	REACH	Char	2	47		River Reach Type
1	STAGE	Num	8	0	4.1	Elevation (ft, LWRP)
10	VOL_M	Num	8	76	12.1	Water Volume (cu m)
9	VOL_YD	Num	8	68	12.1	Water Volume (cu yds)

Data Set Name: SEDDATA.SANDBAR
Member Type: DATA
Engine: V606
Created: 13:12 Tuesday, February 25, 1992
Last Modified: 13:12 Tuesday, February 25, 1992
Label: Miss. River Sandbar LWRP +10ft

Observations: 785
Variables: 9
Indexes: 0
Observation Length: 89
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 2048
Number of Data Set Pages: 40
First Data Page: 1
Max Obs per Page: 20
Obs in First Data Page: 5
File : SANDBAR SEDDATA

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
6	ACLWRP10	Num	8	57		Acres Above LWRP +10ft
5	ACRES	Num	8	49		Total Acres
9	AREA	Char	2	87		Area
3	DATE	Num	8	33	DATE7.	Survey Date
1	DIKENAME	Char	25	0		Dike Name
7	INC_AC	Num	8	65		Acres Above LWRP
2	STAGE	Num	8	25		Elevation (ft, LWRP)
8	SUBAREA	Char	14	73		Sub Area
4	VOLUME	Num	8	41		Volume (cu yds)

Data Set Name: SEDDATA.ALLDIKES
Member Type: DATA
Engine: V606
Created: 12:55 Tuesday, February 25, 1992
Last Modified: 12:55 Tuesday, February 25, 1992
Label: Miss. River Dike Sedimentation Data

Observations: 7993
Variables: 7
Indexes: 0
Observation Length: 76
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 10240
Number of Data Set Pages: 70
First Data Page: 1
Max Obs per Page: 116
Obs in First Data Page: 102
File : ALLDIKES SEDDATA

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
5	ACRES	Num	8	52	5.1	Total Acres
4	AREA	Char	2	50		Area
2	DATE	Num	8	29	DATE7.	Survey Date
1	DIKENAME	Char	29	0		Dike Name
7	STAGE	Num	8	68		Elevation (ft, LWRP)
3	SUBAREA	Char	13	37		Sub Area
6	VOLUME	Num	8	60	10.1	Volume (cu yds)

Appendix G

Lower Mississippi River Environmental Program
Vegetation and Wildlife Investigations

Contents Procedure
SAS Data Library Dictionary

(Continued)

Data Set Name: FOREST.CANVINES
Member Type: DATA
Engine: V606
Created: 11:33 Thursday, November 14, 1991
Last Modified: 11:33 Thursday, November 14, 1991
Label: Forest Canopy Vine Counts

Observations: 1027
Variables: 5
Indexes: 0
Observation Length: 30
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 7168
Number of Data Set Pages: 7
First Data Page: 1
Max Obs per Page: 170
Obs in First Data Page: 148
File : CANVINES FOREST

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
4	NUMBER	Num	8	21	Number per Plot
2	PLOT	Num	8	8	Plot Number
3	SPECIES	Char	5	16	Species Code
1	STAND	Num	8	0	Stand Number
5	TYPE	Char	1	29	Vegetation Type Code

Data Set Name: FOREST.GRNDCOVR
Member Type: DATA
Engine: V606
Created: 11:33 Thursday, November 14, 1991
Last Modified: 11:33 Thursday, November 14, 1991
Label: Forest Ground Cover

Observations: 6497
Variables: 5
Indexes: 0
Observation Length: 30
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 7168
Number of Data Set Pages: 39
First Data Page: 1
Max Obs per Page: 170
Obs in First Data Page: 148
File : GRNDCOVR FOREST

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
4	COVER	Num	8	21	Percent Ground Cover
2	PLOT	Num	8	8	Plot Number
3	SPECIES	Char	5	16	Species Code
1	STAND	Num	8	0	Stand Number
5	TYPE	Char	1	29	Vegetation Type

Data Set Name: FOREST.HEADER
Member Type: DATA
Engine: V606
Created: 11:33 Thursday, November 14, 1991
Last Modified: 11:33 Thursday, November 14, 1991
Label: Forest Vegetation Header Information

Observations: 1110
Variables: 22
Indexes: 0
Observation Length: 176
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 16384
Number of Data Set Pages: 13
First Data Page: 1
Max Obs per Page: 87
Obs in First Data Page: 70
File : HEADER FOREST

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
13	CANOPYHT	Num	8	96	Average Canopy Height (feet)
14	CANPYCOV	Num	8	104	Estimated Canopy Cover
22	DATE	Char	8	168	Sampling Date MM-DD-YY
7	DEBRIS	Num	8	48	Number of Debris Piles
18	DETRITUS	Num	8	136	Detritus Code (1-Sparse, 2-Patchy, 3-Uniform)
1	EASTWEST	Num	8	0	River Bank Code (1-East, 2-West, 3-Island)
5	ELEVATN	Num	8	32	Elevation Code RE Area (1-Same, 2-Higher, 3-Lower)
12	GRAZING	Num	8	88	Cattle Grazing Code (1-Yes, 2-No)
17	GRNDCOVR	Num	8	128	Estimated Ground Cover
21	GROUNDHT	Num	8	160	Average Ground Cover Height
8	LOGS	Num	8	56	Number of Logs
20	OWNRSHIP	Num	8	152	Owner Code (1-Timber Co., 2-Private, 3-Government, 4-Unknown)
4	PLOT	Num	8	24	Plot Number
11	POOLSITE	Num	8	80	Number of Depressions >= 9 sq. ft.
2	RIVRMILE	Num	8	8	River Mile
10	SNAGS	Num	8	72	Number of Snags
19	SOIL	Num	8	144	Soil Type Code (1-Sand, 2-Silt, 3-Clay, 4-Sand, Silt, & Clay, 12-Sand & Silt, 13-Sand & Clay, 23-Silt & Clay)
3	STAND	Num	8	16	Stand Number
9	STUMPS	Num	8	64	Number of Tree Stumps/Acre
6	TOPOG	Num	8	40	Topography Code (1-Flat, 2-Slope, 3-Depression, 4-Ridge)
16	UNDRCOVR	Num	8	120	Percent Understory Cover
15	UNDRSTHT	Num	8	112	Average Height of Understory (feet)

Data Set Name: FOREST.HEADER2
Member Type: DATA
Engine: V606
Created: 11:34 Thursday, November 14, 1991
Last Modified: 11:34 Thursday, November 14, 1991
Label: Forest Vegetation Header Information

Observations: 318
Variables: 24
Indexes: 0
Observation Length: 131
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 20480
Number of Data Set Pages: 3
First Data Page: 1
Max Obs per Page: 143
Obs in First Data Page: 120
File : HEADER2 FOREST

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
14	BLUFF	Char	1	62	Bluff Vicinity (*-Yes, blank-No)
10	BORROWPT	Char	1	37	Borrow Pit Association (*-Yes, blank-No)
8	BURIED	Char	1	35	Deeply Buried in Sediment (*-Yes, blank-No)
20	CHANNEL	Num	8	91	Channel Code (1-Pre 1900, 2-Post 1900, 3-Post 1940, 4-All in Channel, blank-unknown)
17	CLUSTER	Char	3	72	Cluster Subgroup
16	CLUSTER_	Char	1	71	Cluster Group
3	COVER1	Num	8	9	Cover Type
4	COVER2	Num	8	17	Cover Type
5	COVER3	Num	8	25	Cover Type
2	COVRCHEK	Char	1	8	Frank Miller Cover Type Availability
21	ED1	Num	8	99	Surface Environmental Deposition (A)
22	ED2	Num	8	107	Underlying Environmental Deposition (A)
23	ED3	Num	8	115	Alternate Surface Env. Deposition (A)
13	FLOODFRQ	Num	8	54	Flood Frequency
19	FLOWZONE	Num	8	83	Overbank Flood (1-High, 2-Medium, 3-Low)
9	HARVEST	Char	1	36	Recently Harvested (*-Yes, blank-No)
12	LWRP	Num	8	46	Low Water Reference Plane
11	MSL	Num	8	38	Elevation (Mean Sea Level)
6	PLANTATN	Char	1	33	Plantation (*-Yes, blank-No)
15	REL_ELEV	Num	8	63	Relative Elevation (MSL-LWRP)
24	SOIL_PRM	Num	8	123	Soil Permeability (1-Permeable, 2-Moderate, 3-Impermeable)
1	STAND	Num	8	0	Stand Number
18	TIMBER	Num	8	75	Ownership of Stand (1-Anderson Tully, 2-Grief Brothers, 3-Chicago Mill, 4-US Gypsum, 5-Westvaco, 6-IP, 7-Crown Zellerbach, 8-Hunt Club)
7	TRIBUTRY	Char	1	34	Tributary System Influence (*-Yes, blank-No)

Data Set Name: FOREST.HEADER3
Member Type: DATA
Engine: V606
Created: 11:34 Thursday, November 14, 1991
Last Modified: 11:34 Thursday, November 14, 1991
Label: Forest Vegetation Header Information

Observations: 1110
Variables: 49
Indexes: 0
Observation Length: 320
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 1024
Number of Data Set Pages: 377
First Data Page: 7
Max Obs per Page: 3
Obs in First Data Page: 1
File : HEADER3 FOREST

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
36	BLUFF	Char	1	233	Bluff Vicinity (*-Yes, blank-No)
32	BORROWPT	Char	1	208	Borrow Pit Association (*-Yes, blank-No)
30	BURIED	Char	1	206	Deeply Buried in Sediment (*-Yes, blank-No)
14	CANOPYHT	Num	8	99	Average Canopy Height (feet)
15	CANPYCOV	Num	8	107	Estimated Canopy Cover
42	CHANNEL	Num	8	262	Channel Code (1-Pre 1900, 2-Post 1900, 3-Post 1940, 4-All in Channel, blank-Unknown)
39	CLUSTER	Char	3	243	Cluster Subgroup
1	CLUSTER1	Char	3	0	Cluster Group Without Outliers
38	CLUSTER_	Char	1	242	Cluster Group With Outliers
25	COVER1	Num	8	180	Cover Type
26	COVER2	Num	8	188	Cover Type
27	COVER3	Num	8	196	Cover Type
47	COVER4	Num	8	302	Final Cover Type Summary Designation
24	COVRCHEK	Char	1	179	Frank Miller Cover Type Availability
23	DATE	Char	8	171	Sampling Date MM-DD-YY
8	DEBRIS	Num	8	51	Number of Debris Piles
19	DETRITUS	Num	8	139	Detritus Code (1-Sparse, 2-Patchy, 3-Uniform)
2	EASTWEST	Num	8	3	River Bank Code (1-East, 2-West, 3-Island)
43	ED1	Num	8	270	Surface Environmental Deposition (A)
44	ED2	Num	8	278	Underlying Environmental Deposition (A)
45	ED3	Num	8	286	Alternate Surface Env. Deposition (A)
48	ED4	Num	8	310	Alternate Surface Env. Deposition (A)
6	ELEVATN	Num	8	35	Elevation Code RE Area (1-Same, 2-Higher, 3-Lower)
35	FLOODFRQ	Num	8	225	Flood Frequency

(Continued)

Data Set Name: FOREST.HEADER3 (Concluded)

#	Variable	Type	Len	Pos	Label
41	FLOWZONE	Num	8	254	Overbank Flood (1-High, 2-Medium, 3-Low)
13	GRAZING	Num	8	91	Cattle Grazing Code (1-Yes, 2-No)
18	GRNDCOVR	Num	8	131	Estimated Ground Cover
22	GROUNDHT	Num	8	163	Average Ground Cover Height
31	HARVEST	Char	1	207	Recently Harvested (*-Yes, blank-No)
9	LOGS	Num	8	59	Number of Logs
34	LWRP	Num	8	217	Low Water Reference Plane
33	MSL	Num	8	209	Elevation (Mean Sea Level)
49	OWNER	Char	2	318	Owner Subgroup
21	OWNRSHIP	Num	8	155	Owner Code (1-Timber Co., 2-Private, 3-Government, 4-Unknown)
28	PLANTATN	Char	1	204	Plantation (*-Yes, blank-No)
5	PLOT	Num	8	27	Plot Number
12	POOLSITE	Num	8	83	Number of Depressions >= 9 sq. ft.
37	REL_ELEV	Num	8	234	Relative Elevation (MSL-LWRP)
3	RIVRMILE	Num	8	11	River Mile
11	SNAGS	Num	8	75	Number of Snags
20	SOIL	Num	8	147	Soil Type Code (1-Sand, 2-Silt, 3-Clay, 4-Sand, Silt, & Clay, 12-Sand & Silt, 13-Sand & Clay, 23-Silt & Clay)
46	SOIL_PRM	Num	8	294	Soil Permeability (1-Permeable, 2-Moderate, 3-Impermeable)
4	STAND	Num	8	19	Stand Number
10	STUMPS	Num	8	67	Number of Tree Stumps/Acre
40	TIMBER	Num	8	246	Ownership of Stand (1-Anderson Tully, 2-Grief Brothers, 3-Chicago Mill, 4-US Gypsum, 5-Westvaco, 6-IP, 7-Crown Zellerbach, 8-Hunt Club)
7	TOPOG	Num	8	43	Topography Code (1-Flat, 2-Slope, 3-Depression, 4-Ridge)
29	TRIBUTRY	Char	1	205	Tributary System Influence (*-Yes, blank-No)
17	UNDRCOVR	Num	8	123	Percent Understory Cover
16	UNDRSTHT	Num	8	115	Average Height of Understory (feet)

Data Set Name: FOREST.SAPLINGS
Member Type: DATA
Engine: V606
Created: 11:34 Thursday, November 14, 1991
Last Modified: 11:34 Thursday, November 14, 1991
Label: Forest Sapling Data

Observations: 2937
Variables: 5
Indexes: 0
Observation Length: 30
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 7168
Number of Data Set Pages: 18
First Data Page: 1
Max Obs per Page: 170
Obs in First Data Page: 148
File : SAPLINGS FOREST

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
4	NUMBER	Num	8	21	Number of Species per Plot
2	PLOT	Num	8	8	Plot Number
3	SPECIES	Char	5	16	Species Code
1	STAND	Num	8	0	Stand Number
5	TYPE	Char	1	29	Vegetation Type Code

Data Set Name: FOREST.SEEDLNGS
Member Type: DATA
Engine: V606
Created: 11:34 Thursday, November 14, 1991
Last Modified: 11:34 Thursday, November 14, 1991
Label: Forest Seedling Data

Observations: 1057
Variables: 5
Indexes: 0
Observation Length: 30
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 7168
Number of Data Set Pages: 7
First Data Page: 1
Max Obs per Page: 170
Obs in First Data Page: 148
File : SEEDLNGS FOREST

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
4	NUMBER	Num	8	21	Number of Species per Plot
2	PLOT	Num	8	8	Plot Number
3	SPECIES	Char	5	16	Species Code
1	STAND	Num	8	0	Stand Number
5	TYPE	Char	1	29	Vegetation Type Code

Data Set Name: FOREST.STANDSUM
Member Type: DATA
Engine: V606
Created: 11:34 Thursday, November 14, 1991
Last Modified: 11:34 Thursday, November 14, 1991
Label: Forest Tree Stand Summary

Observations: 317
Variables: 17
Indexes: 0
Observation Length: 136
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 10240
Number of Data Set Pages: 5
First Data Page: 1
Max Obs per Page: 69
Obs in First Data Page: 52
File : STANDSUM FOREST

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
12	CANOPYHT	Num	8	88	Average Canopy Height of Stand
15	CANPYCOV	Num	8	112	Average Canopy Cover of Stand
3	DEBRIS	Num	8	16	Average No. of Debris Piles in Stand
8	DETRITUS	Num	8	56	Average Detritus Code of Stand
17	GRNDCOVR	Num	8	128	Average Ground Cover of Stand
14	GROUNDHT	Num	8	104	Average Ground Cover Height of Stand
4	LOGS	Num	8	24	Average No. of Logs in Stand
9	N_CANHT	Num	8	64	No. of Plots in Stand with Canopy Height
11	N_GRNDHT	Num	8	80	No. of Plots in Stand with Ground Cover
10	N_UNDRHT	Num	8	72	No. of Plots in Stand with Undercover
2	NUMPLOTS	Num	8	8	Number of Plots in Stand
7	POOLSITE	Num	8	48	Average Number of Depressions
6	SNAGS	Num	8	40	Average Number of Snags
1	STAND	Num	8	0	Stand Number
5	STUMPS	Num	8	32	Average Number of Stumps
16	UNDRCOVR	Num	8	120	Average Undercover of Stand
13	UNDRSTHT	Num	8	96	Average Understory of Stand

Data Set Name: FOREST.TREES
Member Type: DATA
Engine: V606
Created: 11:34 Thursday, November 14, 1991
Last Modified: 11:34 Thursday, November 14, 1991
Label: Forest Tree Data

Observations: 31837
Variables: 5
Indexes: 0
Observation Length: 30
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 7168
Number of Data Set Pages: 188
First Data Page: 1
Max Obs per Page: 170
Obs in First Data Page: 148
File : TREES FOREST

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
4	DIAMETER	Num	8	21	Diameter in Inches
3	PLOT	Num	8	13	Plot Number
1	SPECIES	Char	5	0	Species Code
2	STAND	Num	8	5	Stand Number
5	TYPE	Char	1	29	Vegetation Type Code

Table (A). Environmental Surface Codes

1 - Point Bar
2 - Natural Levee
3 - Swale
4 - Braided Stream Terrace
5 - Abandoned Channel
6 - Backswamp
7 - Alluvial Apron

Data Set Name: TREES.BASAL
Member Type: DATA
Engine: V606
Created: 11:45 Thursday, November 14, 1991
Last Modified: 11:45 Thursday, November 14, 1991
Label: Tree Basal Areas by Plot & Size Classes

Observations: 23855
Variables: 8
Indexes: 0
Observation Length: 54
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 28672
Number of Data Set Pages: 56
First Data Page: 1
Max Obs per Page: 434
Obs in First Data Page: 414
File : BASAL TREES

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
6	BASAL	Num	8	30	Basal Area per Acre
3	PLOT	Num	8	13	Plot Number
7	REL_BASL	Num	8	38	Relative Basal Area of Species
4	SIZE	Char	1	21	Size Class (B)
1	SPECIES	Char	5	0	Species Code
8	SQR_METR	Num	8	46	Basal Area per Hectare
2	STAND	Num	8	5	Stand Number
5	TFT_SQRD	Num	8	22	Total sq. ft. of Species in Plot

Data Set Name: TREES.DENSITY
Member Type: DATA
Engine: V606
Created: 11:46 Thursday, November 14, 1991
Last Modified: 11:46 Thursday, November 14, 1991
Label: Tree Densities by Plot & Size Classes

Observations: 23855
Variables: 8
Indexes: 0
Observation Length: 54
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 28672
Number of Data Set Pages: 56
First Data Page: 1
Max Obs per Page: 434
Obs in First Data Page: 414
File : DENSITY TREES

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
6	DENSITY	Num	8	30	Density per Acre
5	NUMBER	Num	8	22	Number of Species in Size Class
3	PLOT	Num	8	13	Plot Number
7	REL_DENS	Num	8	38	Relative Density
4	SIZE	Char	1	21	Size Class (B)
1	SPECIES	Char	5	0	Species Code
2	STAND	Num	8	5	Stand Number
8	STEMS	Num	8	46	Density of Stems per Hectare

Data Set Name: TREES.FINALSUM
Member Type: DATA
Engine: V606
Created: 11:46 Thursday, November 14, 1991
Last Modified: 11:46 Thursday, November 14, 1991
Label: Tree Summary Data

Observations: 3600
Variables: 17
Indexes: 0
Observation Length: 126
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 10240
Number of Data Set Pages: 49
First Data Page: 1
Max Obs per Page: 74
Obs in First Data Page: 56
File : FINALSUM TREES

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
10	AVG_BASL	Num	8	62	Average Basal Area
9	AVG_DEN	Num	8	54	Average Density
6	BASAL	Num	8	30	Total Basal Area
4	CONSTANT	Num	8	14	Constancy
5	DENSITY	Num	8	22	Total Density
15	MAVG_BAS	Num	8	102	Average Basal Area per Hectare
14	MAVG_DEN	Num	8	94	Average Density per Hectare
13	MDENSITY	Num	8	86	Total Density per Hectare
17	MSD_BASL	Num	8	118	Basal Standard Error
16	MSD_DENS	Num	8	110	Density Standard Error
8	N_PLOTS	Num	8	46	Number of Plots
12	SD_BASL	Num	8	78	Basal Standard Deviation
11	SD_DEN	Num	8	70	Density Standard Deviation
2	SIZE	Char	1	8	Size Class (B)
3	SPECIES	Char	5	9	Species Code
7	STAND	Num	8	38	Stand Number
1	SUBGROUP	Num	8	0	Subgroup Code

Data Set Name: TREES.IV
Member Type: DATA
Engine: V606
Created: 11:47 Thursday, November 14, 1991
Last Modified: 11:47 Thursday, November 14, 1991
Label: Importance Value by Plot & Size Classes

Observations: 23855
Variables: 7
Indexes: 0
Observation Length: 46
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 16384
Number of Data Set Pages: 85
First Data Page: 1
Max Obs per Page: 282
Obs in First Data Page: 261
File : IV TREES

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
7	IV200	Num	8	38	Importance Value 200 of Species
3	PLOT	Num	8	13	Plot Number
6	REL_BASL	Num	8	30	Relative Basal Area
5	REL_DENS	Num	8	22	Relative Density
4	SIZE	Char	1	21	Size Class Code (B)
1	SPECIES	Char	5	0	Species Code
2	STAND	Num	8	5	Stand Number

Table (B). Tree Size Class Codes

A: 2 - 5 Inches
B: 6 - 9 Inches
C: >= 10 Inches
D: >= 6 Inches
E: >= 2 Inches

Data Set Name: SAPLINGS.DENSITY
Member Type: DATA
Engine: V606
Created: 11:39 Thursday, November 14, 1991
Last Modified: 11:39 Thursday, November 14, 1991
Label: Sapling Density

Observations: 1617
Variables: 8
Indexes: 0
Observation Length: 54
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 28672
Number of Data Set Pages: 4
First Data Page: 1
Max Obs per Page: 434
Obs in First Data Page: 414
File : DENSITY SAPLINGS

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
6	DENSITY	Num	8	30	Density
8	MET_DENS	Num	8	46	Density per Hectare
5	NUMBER	Num	8	22	Number of Species per Plot
2	PLOT	Num	8	8	Plot Number
7	REL_DENS	Num	8	38	Relative Density
4	SPECIES	Char	5	17	Species Code
1	STAND	Num	8	0	Stand Number
3	TYPE	Char	1	16	Vegetation Type Code

Data Set Name: SAPLINGS.FINALSUM
Member Type: DATA
Engine: V606
Created: 11:39 Thursday, November 14, 1991
Last Modified: 11:39 Thursday, November 14, 1991
Label: Sapling Summary

Observations: 365
Variables: 10
Indexes: 0
Observation Length: 77
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 1024
Number of Data Set Pages: 35
First Data Page: 2
Max Obs per Page: 11
Obs in First Data Page: 4
File : FINALSUM SAPLINGS

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
6	AVG_DEN	Num	8	37	Average Density
4	CONSTANT	Num	8	21	Constancy
5	DENSITY	Num	8	29	Total Density
9	MAVG_DEN	Num	8	61	Average Density per Hectare
8	MDENSITY	Num	8	53	Total Density per Hectare
10	MSD_DEN	Num	8	69	Standard Error
3	N_PLOTS	Num	8	13	Number of Plots
7	SD_DEN	Num	8	45	Standard Deviation
2	SPECIES	Char	5	8	Species Code
1	SUBGROUP	Num	8	0	Subgroup Code

Data Set Name: SEEDLNGS.DENSITY
Member Type: DATA
Engine: V606
Created: 11:40 Thursday, November 14, 1991
Last Modified: 11:40 Thursday, November 14, 1991
Label: Seedling Density

Observations: 1291
Variables: 7
Indexes: 0
Observation Length: 53
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 2048
Number of Data Set Pages: 43
First Data Page: 1
Max Obs per Page: 31
Obs in First Data Page: 13
File : DENSITY SEEDLNGS

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
5	DENSITY	Num	8	29	Density
7	MET_DENS	Num	8	45	Average Density
4	NUMBER	Num	8	21	Number of Species
2	PLOT	Num	8	8	Plot Number
6	REL_DENS	Num	8	37	Relative Density
3	SPECIES	Char	5	16	Species Code
1	STAND	Num	8	0	Stand Number

Data Set Name: SEEDLNGS.FINALSUM
Member Type: DATA
Engine: V606
Created: 11:40 Thursday, November 14, 1991
Last Modified: 11:40 Thursday, November 14, 1991
Label: Seedling Summary

Observations: 308
Variables: 10
Indexes: 0
Observation Length: 77
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 1024
Number of Data Set Pages: 30
First Data Page: 2
Max Obs per Page: 11
Obs in First Data Page: 4
File : FINALSUM SEEDLNGS

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
6	AVG_DEN	Num	8	37	Average Density per Acre
4	CONSTANT	Num	8	21	Constancy
5	DENSITY	Num	8	29	Total Density
9	MAVG_DEN	Num	8	61	Average Density per Hectare
8	MDENSITY	Num	8	53	Total Density per Hectare
10	MSD_DEN	Num	8	69	Standard Error
3	N_PLOTS	Num	8	13	Number of Plots
7	SD_DEN	Num	8	45	Standard Deviation
2	SPECIES	Char	5	8	Species Code
1	SUBGROUP	Num	8	0	Subgroup Code

Data Set Name: SHRUBS.DENSITY
Member Type: DATA
Engine: V606
Created: 11:43 Thursday, November 14, 1991
Last Modified: 11:43 Thursday, November 14, 1991
Label: Shrub Density

Observations: 525
Variables: 7
Indexes: 0
Observation Length: 53
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 2048
Number of Data Set Pages: 18
First Data Page: 1
Max Obs per Page: 31
Obs in First Data Page: 13
File : DENSITY SHRUBS

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
5	DENSITY	Num	8	29	Total Density
7	MET_DENS	Num	8	45	Density per Hectare
4	NUMBER	Num	8	21	Number of Species
2	PLOT	Num	8	8	Plot Number
6	REL_DENS	Num	8	37	Relative Density
3	SPECIES	Char	5	16	Species Code
1	STAND	Num	8	0	Stand Number

Data Set Name: SHRUBS.FINALSUM
Member Type: DATA
Engine: V606
Created: 11:43 Thursday, November 14, 1991
Last Modified: 11:43 Thursday, November 14, 1991
Label: Shrub Summary

Observations: 170
Variables: 10
Indexes: 0
Observation Length: 77
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 1024
Number of Data Set Pages: 18
First Data Page: 2
Max Obs per Page: 11
Obs in First Data Page: 4
File : FINALSUM SHRUBS

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
6	AVG_DEN	Num	8	37	Average Density
4	CONSTANT	Num	8	21	Constancy
5	DENSITY	Num	8	29	Total Density
9	MAVG_DEN	Num	8	61	Average Density per Hectare
8	MDENSITY	Num	8	53	Total Density per Hectare
10	MSD_DEN	Num	8	69	Standard Error
3	N_PLOTS	Num	8	13	Number of Plots
7	SD_DEN	Num	8	45	Standard Deviation
2	SPECIES	Char	5	8	Species Code
1	SUBGROUP	Num	8	0	Subgroup Code

Data Set Name: SHRBSEED.DENSITY
Member Type: DATA
Engine: V606
Created: 11:42 Thursday, November 14, 1991
Last Modified: 11:42 Thursday, November 14, 1991
Label: Shrub Seedling Density

Observations: 293
Variables: 7
Indexes: 0
Observation Length: 53
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 2048
Number of Data Set Pages: 11
First Data Page: 1
Max Obs per Page: 31
Obs in First Data Page: 13
File : DENSITY SHRBSEED

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
5	DENSITY	Num	8	29	Density per Acre
7	MET_DENS	Num	8	45	Density per Hectare
4	NUMBER	Num	8	21	Number of Species per Plot
2	PLOT	Num	8	8	Plot Number
6	REL_DENS	Num	8	37	Relative Density
3	SPECIES	Char	5	16	Species Code
1	STAND	Num	8	0	Stand Number

Data Set Name: VINES.DENSITY
Member Type: DATA
Engine: V606
Created: 11:48 Thursday, November 14, 1991
Last Modified: 11:48 Thursday, November 14, 1991
Label: Vine Density

Observations: 7971
Variables: 8
Indexes: 0
Observation Length: 62
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 10240
Number of Data Set Pages: 58
First Data Page: 1
Max Obs per Page: 138
Obs in First Data Page: 120
File : DENSITY VINES

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
6	DENSITY	Num	8	38	Density per Acre
8	MET_DENS	Num	8	54	Density per Hectare
5	NUMBER	Num	8	30	Number of Species per Plot
2	PLOT	Num	8	8	Plot Number
7	REL_DENS	Num	8	46	Relative Density
4	SPECIES	Char	5	25	Species Code
1	STAND	Num	8	0	Stand Number
3	VINETYPE	Char	9	16	Vine Type

Data Set Name: VINES.FINALSUM
Member Type: DATA
Engine: V606
Created: 11:48 Thursday, November 14, 1991
Last Modified: 11:48 Thursday, November 14, 1991
Label: Vine Summary

Observations: 1607
Variables: 11
Indexes: 0
Observation Length: 86
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 14336
Number of Data Set Pages: 12
First Data Page: 1
Max Obs per Page: 146
Obs in First Data Page: 128
File : FINALSUM VINES

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
7	AVG_DEN	Num	8	46	Average Density per Acre
5	CONSTANT	Num	8	30	Constancy
6	DENSITY	Num	8	38	Total Density per Acre
10	MAVG_DEN	Num	8	70	Average Density pe Hectare
9	MDENSITY	Num	8	62	Total Density per Hectare
11	MSD_DEN	Num	8	78	Standard Error
4	N_PLOTS	Num	8	22	Number of Plots
8	SD_DEN	Num	8	54	Standard Deviation
3	SPECIES	Char	5	17	Species Code
1	SUBGROUP	Num	8	0	Subgroup Code
2	VINETYPE	Char	9	8	Vine Type

Data Set Name: GROUND.COVER
Member Type: DATA
Engine: V606
Created: 11:35 Thursday, November 14, 1991
Last Modified: 11:35 Thursday, November 14, 1991
Label: Ground Cover Data

Observations: 7577
Variables: 6
Indexes: 0
Observation Length: 38
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 22528
Number of Data Set Pages: 17
First Data Page: 1
Max Obs per Page: 450
Obs in First Data Page: 429
File : COVER GROUND

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
4	COVER	Num	8	21	Percent Cover
3	PLOT	Num	8	13	Plot Number
6	REL_DOM	Num	8	30	Relative Dominance
1	SPECIES	Char	5	0	Species Code
2	STAND	Num	8	5	Stand Number
5	TYPE	Char	1	29	Vegetation Type Code

Data Set Name: GROUND.FINALSUM
Member Type: DATA
Engine: V606
Created: 11:36 Thursday, November 14, 1991
Last Modified: 11:36 Thursday, November 14, 1991
Label: Ground Cover Summary

Observations: 2157
Variables: 6
Indexes: 0
Observation Length: 45
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 14336
Number of Data Set Pages: 9
First Data Page: 1
Max Obs per Page: 251
Obs in First Data Page: 232
File : FINALSUM GROUND

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
6	AVG_COVR	Num	8	37	Average Percent Cover of Species
4	CONSTANT	Num	8	21	Constancy
5	COVER	Num	8	29	Total Percent Cover of Species
3	N_PLOTS	Num	8	13	Number of Plots
2	SPECIES	Char	5	8	Species Code
1	SUBGROUP	Num	8	0	Subgroup Code

Data Set Name: STAND.COVRTYPE
Member Type: DATA
Engine: V606
Created: 11:44 Thursday, November 14, 1991
Last Modified: 11:44 Thursday, November 14, 1991
Label: Stand Condition and Cover Type

Observations: 316
Variables: 3
Indexes: 0
Observation Length: 24
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 4096
Number of Data Set Pages: 3
First Data Page: 1
Max Obs per Page: 113
Obs in First Data Page: 94
File : COVRTYPE STAND

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
2	CONDITN	Num	8	8	Stand Condition Code (C)
3	COVRTYPE	Num	8	16	Cover Type Code (D)
1	STAND	Num	8	0	Stand Number

Table (C). Stand Condition Codes

1 - Scrub
2 - Sapling
3 - Pole
4 - Sawtimber

Table (D). Stand Cover Type Codes

0 - Outside of Study Area
1 - Black Willow
2 - Cottonwood - Black Willow
3 - Cottonwood
4 - Sycamore, Sweetgum, American Elm
5 - Sycamore
6 - Sweetgum
7 - Elm
8 - Pecan
9 - Sweetgum, Oak
10 - Oak
11 - Hackberry, American Elm, Green Ash
12 - Hackberry
13 - Green Ash
14 - Overcup Oak, Bitter Pecan
15 - Overcup Oak
16 - Cypress, Tupelo Gum
17 - Cypress
18 - Tupelo Gum
19 - Scrub
20 - Tree Plantation
21 - Cropland
22 - Pasture, Old Field, Levee
23 - Inert
24 - Open Water
25 - Non-forested Wetlands
26 - Ridge, Slough Complex
27 - Live Oak, Pecan, Sugarberry
28 - Live Oak
29 - Bitter Pecan
30 - Box Elder
31 - Silver Maple
32 - Sandbar Willow
33 - Silver Maple, American Elm
34 - Dogwood

Data Set Name: STAND.GRNDCOVR
Member Type: DATA
Engine: V606
Created: 11:44 Thursday, November 14, 1991
Last Modified: 11:44 Thursday, November 14, 1991
Label: Percent Ground Cover at Each Site

Observations: 4106
Variables: 5
Indexes: 0
Observation Length: 37
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 14336
Number of Data Set Pages: 15
First Data Page: 1
Max Obs per Page: 292
Obs in First Data Page: 273
File : GRNDCOVR STAND

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
3	COVER	Num	8	13	Percent Stand Covered by Species
4	NUMPLOTS	Num	8	21	Number of Plots
5	REL_DOM	Num	8	29	Relative Dominance
1	SPECIES	Char	5	0	Species Code
2	STAND	Num	8	5	Stand Number

Data Set Name: STAND.SAPLINGS
Member Type: DATA
Engine: V606
Created: 11:44 Thursday, November 14, 1991
Last Modified: 11:44 Thursday, November 14, 1991
Label: Sapling Density

Observations: 1109
Variables: 6
Indexes: 0
Observation Length: 45
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 14336
Number of Data Set Pages: 5
First Data Page: 1
Max Obs per Page: 251
Obs in First Data Page: 232
File : SAPLINGS STAND

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
3	DENSITY	Num	8	13	Density per Acre
6	MET_DENS	Num	8	37	Density per Hectare
4	NUMPLOTS	Num	8	21	Number of Plots
5	REL_DENS	Num	8	29	Relative Density
2	SPECIES	Char	5	8	Species Code
1	STAND	Num	8	0	Stand Number

Data Set Name: STAND.SEEDLNGS
Member Type: DATA
Engine: V606
Created: 11:44 Thursday, November 14, 1991
Last Modified: 11:44 Thursday, November 14, 1991
Label: Seedling Density

Observations: 778
Variables: 6
Indexes: 0
Observation Length: 45
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 14336
Number of Data Set Pages: 4
First Data Page: 1
Max Obs per Page: 251
Obs in First Data Page: 232
File : SEEDLNGS STAND

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
3	DENSITY	Num	8	13	Density per Acre
6	MET_DENS	Num	8	37	Density per Hectare
4	NUMPLOTS	Num	8	21	Number of Plots
5	REL_DENS	Num	8	29	Relative Density
2	SPECIES	Char	5	8	Species Code
1	STAND	Num	8	0	Stand Number

Data Set Name: STAND.SHRBSEED
Member Type: DATA
Engine: V606
Created: 11:44 Thursday, November 14, 1991
Last Modified: 11:44 Thursday, November 14, 1991
Label: Shrub Seed Density

Observations: 426
Variables: 6
Indexes: 0
Observation Length: 45
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 14336
Number of Data Set Pages: 2
First Data Page: 1
Max Obs per Page: 251
Obs in First Data Page: 232
File : SHRBSEED STAND

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
3	DENSITY	Num	8	13	Density per Acre
6	MET_DENS	Num	8	37	Density per Hectare
4	NUMPLOTS	Num	8	21	Number of Plots
5	REL_DENS	Num	8	29	Relative Density
2	SPECIES	Char	5	8	Species Code
1	STAND	Num	8	0	Stand Number

Data Set Name: STAND.SHRUBS
Member Type: DATA
Engine: V606
Created: 11:44 Thursday, November 14, 1991
Last Modified: 11:44 Thursday, November 14, 1991
Label: Shrub Density

Observations: 499
Variables: 6
Indexes: 0
Observation Length: 45
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 14336
Number of Data Set Pages: 3
First Data Page: 1
Max Obs per Page: 251
Obs in First Data Page: 232
File : SHRUBS STAND

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
3	DENSITY	Num	8	13	Density per Acre
6	MET_DENS	Num	8	37	Density per Hectare
4	NUMPLOTS	Num	8	21	Number of Plots
5	REL_DENS	Num	8	29	Relative Density
2	SPECIES	Char	5	8	Species Code
1	STAND	Num	8	0	Stand Number

Data Set Name:	STAND.TREES	Observations:	9872
Member Type:	DATA	Variables:	14
Engine:	V606	Indexes:	0
Created:	11:44 Thursday, November 14, 1991	Observation Length:	102
Last Modified:	11:44 Thursday, November 14, 1991	Deleted Observations:	0
Label:	Tree Density		

-----Engine/Host Dependent Information-----

Data Set Page Size:	32768
Number of Data Set Pages:	35
First Data Page:	1
Max Obs per Page:	287
Obs in First Data Page:	269
File :	TREES STAND

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
8	BASAL	Num	8	46	Basal Area per Acre
4	DENSITY	Num	8	14	Density per Acre
11	FREQ	Num	8	70	Frequency of Occurrence
13	IV200	Num	8	86	Importance Value
14	IV300	Num	8	94	Importance Value: IV200 + Rel_Freq
7	MET_DENS	Num	8	38	Density per Hectare
5	NUMPLOTS	Num	8	22	Number of Plots
9	REL_BASL	Num	8	54	Relative Basal Area
6	REL_DENS	Num	8	30	Relative Density
12	REL_FREQ	Num	8	78	Relative Frequency
3	SIZE	Char	1	13	Size Class
1	SPECIES	Char	5	0	Species Code
10	SQR_METR	Num	8	62	Basal Area per Hectare
2	STAND	Num	8	5	Stand Number

Data Set Name: STAND.VINES
Member Type: DATA
Engine: V606
Created: 11:45 Thursday, November 14, 1991
Last Modified: 11:45 Thursday, November 14, 1991
Label: Vine Density

Observations: 2212
Variables: 7
Indexes: 0
Observation Length: 54
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 28672
Number of Data Set Pages: 6
First Data Page: 1
Max Obs per Page: 434
Obs in First Data Page: 416
File : VINES STAND

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
4	DENSITY	Num	8	22	Density per Acre
7	MET_DENS	Num	8	46	Density per Hectare
5	NUMPLOTS	Num	8	30	Number of Plots
6	REL_DENS	Num	8	38	Relative Density
3	SPECIES	Char	5	17	Species Code
1	STAND	Num	8	0	Stand Number
2	VINETYPE	Char	9	8	Vine Type

Data Set Name: HES.FACTORS
Member Type: DATA
Engine: V606
Created: 11:37 Thursday, November 14, 1991
Last Modified: 11:37 Thursday, November 14, 1991
Label: Overstory HES Factors

Observations: 896
Variables: 6
Indexes: 0
Observation Length: 48
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 7168
Number of Data Set Pages: 8
First Data Page: 1
Max Obs per Page: 119
Obs in First Data Page: 101
File : FACTORS HES

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
3	HOLLOW	Num	8	16	No. of Cottonwoods, Willows, Boxelders
4	OAKHICK	Num	8	24	No. of Oaks and Hickories
2	PLOT	Num	8	8	Plot Number
1	STAND	Num	8	0	Stand Number
5	STEMS18	Num	8	32	No. of Trees with Diameter >= 18 inches
6	STEMS24	Num	8	40	No. of Trees with Diameter >= 24 inches

Data Set Name: BORROWPT.HEADER
Member Type: DATA
Engine: V606
Created: 11:29 Thursday, November 14, 1991
Last Modified: 11:29 Thursday, November 14, 1991
Label: Borrow Pit Wildlife Header Information

Observations: 208
Variables: 11
Indexes: 0
Observation Length: 88
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 22528
Number of Data Set Pages: 1
First Data Page: 1
Max Obs per Page: 225
Obs in First Data Page: 208
File : HEADER BORROWPT

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
1	BORROWPT	Num	8	0	Borrow Pit ID (E)
6	DEPTH	Num	8	40	Water Depth Code
8	DISTANCE	Num	8	56	Distance Code (H)
7	DURATION	Num	8	48	Normal Flooding Duration
10	FLOOD	Num	8	72	Flood Stage (J)
5	GRAZING	Num	8	32	Livestock Grazing Code
11	RIVRML	Num	8	80	River Mile
2	SEASON	Num	8	8	Season Code (F)
9	SIZE	Num	8	64	Borrow Pit Size Code (I)
4	VEGTYPE	Num	8	24	Vegetation Code (G)
3	YEAR	Num	8	16	Sampling Year

Data Set Name: BORROWPT.NESTING1 Observations: 1394
Member Type: DATA Variables: 6
Engine: V606 Indexes: 0
Created: 11:29 Thursday, November 14, 1991 Observation Length: 44
Last Modified: 11:29 Thursday, November 14, 1991 Deleted Observations: 0
Label: Borrow Pit Nesting Data w/o Zero Counts

-----Engine/Host Dependent Information-----

Data Set Page Size: 2048
Number of Data Set Pages: 40
First Data Page: 1
Max Obs per Page: 36
Obs in First Data Page: 17
File : NESTING1 BORROWPT

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
1	BORROWPT	Num	8	0	Borrow Pit ID (E)
6	NESTCODE	Num	8	36	Nesting Code (K)
5	NESTS	Num	8	28	Number of Nests
2	SEASON	Num	8	8	Season Code (F)
4	SPECIES	Char	4	24	Species Code
3	YEAR	Num	8	16	Sampling Year

Data Set Name: BORROWPT.NESTING2 Observations: 3536
Member Type: DATA Variables: 6
Engine: V606 Indexes: 0
Created: 11:29 Thursday, November 14, 1991 Observation Length: 44
Last Modified: 11:29 Thursday, November 14, 1991 Deleted Observations: 0
Label: Borrow Pit Nesting Data w/ Zero Counts

-----Engine/Host Dependent Information-----

Data Set Page Size: 2048
Number of Data Set Pages: 99
First Data Page: 1
Max Obs per Page: 36
Obs in First Data Page: 17
File : NESTING2 BORROWPT

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
1	BORROWPT	Num	8	0	Borrow Pit ID (E)
6	NESTCODE	Num	8	36	Nesting Code (K)
5	NESTS	Num	8	28	Number of Nests
2	SEASON	Num	8	8	Season Code (F)
4	SPECIES	Char	4	24	Species Code
3	YEAR	Num	8	16	Sampling Year

Data Set Name: BORROWPT.SPECIES1 Observations: 10440
Member Type: DATA Variables: 6
Engine: V606 Indexes: 0
Created: 11:29 Thursday, November 14, 1991 Observation Length: 44
Last Modified: 11:29 Thursday, November 14, 1991 Deleted Observations: 0
Label: Borrow Pit Wildlife Without Zero Counts

-----Engine/Host Dependent Information-----

Data Set Page Size: 2048
Number of Data Set Pages: 291
First Data Page: 1
Max Obs per Page: 36
Obs in First Data Page: 17
File : SPECIES1 BORROWPT

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
6	ANIMALCD	Num	8	36	Animal Group Code (L)
1	BORROWPT	Num	8	0	Borrow Pit ID (E)
5	NUMBER	Num	8	28	Number of Species Observed
2	SEASON	Num	8	8	Season Code (F)
4	SPECIES	Char	4	24	Species Code
3	YEAR	Num	8	16	Sampling Year

Data Set Name: BORROWPT.SPECIES2 Observations: 44519
Member Type: DATA Variables: 6
Engine: V606 Indexes: 0
Created: 11:29 Thursday, November 14, 1991 Observation Length: 44
Last Modified: 11:29 Thursday, November 14, 1991 Deleted Observations: 0
Label: Borrow Pit Wildlife With Zero Counts

-----Engine/Host Dependent Information-----

Data Set Page Size: 2048
Number of Data Set Pages: 1238
First Data Page: 1
Max Obs per Page: 36
Obs in First Data Page: 17
File : SPECIES2 BORROWPT

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
6	ANIMALCD	Num	8	36	Animal Group Code (L)
1	BORROWPT	Num	8	0	Borrow Pit ID (E)
5	NUMBER	Num	8	28	Number of Species Observed
2	SEASON	Num	8	8	Season Code (F)
4	SPECIES	Char	4	24	Species Code
3	YEAR	Num	8	16	Sampling Year

Table (E). Borrow Pit Site ID Codes

10 - BP1	80 - BP8	150 - BP15	201 - BP20B
20 - BP2	90 - BP9	160 - BP16	210 - BP21
30 - BP3	100 - BP10	170 - BP17	220 - BP22
40 - BP4	110 - BP11	180 - BP18	230 - BP23
50 - BP5	120 - BP12	190 - BP19	240 - BP24
60 - BP6	130 - BP13	201 - BP20A	250 - BP25
70 - BP7	140 - BP14		

Table (F). Season Codes

1 - Winter 2 - Spring 3 - Summer 4 - Fall

Table (G). Vegetation Codes

1 - Bottomland Hardwoods With Good Understory
2 - Willow and Some Trees With Moderate Understory
3 - Scattered Trees With No Understory
4 - Open Fields and Pastures

Table (H). Distance Codes

1 - Greater Than One Mile to River
2 - 0.5 - 1 Mile to River
3 - Less Than 0.5 Mile to River

Table (I). Borrow Pit Size Codes

1 - Larger Than 30 Acres
2 - Between 10 - 30 Acres
3 - Less Than 10 Acres

Table (J). Flood Stage Codes

1 - Very Low Water in Pits
2 - Bankfull
3 - River Backed into Borrow Pit

Table (K). Nest Codes

1 - Cavity Nesters	4 - Shrub Nesters	6 - Other Ground Nesters
2 - Colony Nesters	5 - Levee Nesters	7 - Other Nesters
3 - Other Tree Nesters		

Table (L). Animal Codes

1 - Furbearers (Mammals)	5 - Waterbirds	9 - Upland Gamebirds
2 - Game Species (Mammals)	6 - Shorebirds	10 - Raptors, Owls, & Vultures
Nongame Species (Mammals)	7 - Seabirds	11 - Nonperching Birds
4 - Domestic Species (Mammals)	8 - Waterfowl	12 - Perching Land Birds

Data Set Name: DIKEFLD.HEADER
Member Type: DATA
Engine: V606
Created: 11:32 Thursday, November 14, 1991
Last Modified: 11:32 Thursday, November 14, 1991
Label: Dike Field Wildlife Header Information

Observations: 186
Variables: 22
Indexes: 0
Observation Length: 172
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 18432
Number of Data Set Pages: 3
First Data Page: 1
Max Obs per Page: 100
Obs in First Data Page: 83
File : HEADER DIKEFLD

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
5	AGE	Num	8	28	Age of Dike Field (O)
1	DIKE	Char	4	0	Dike ID (M)
8	DISTURB	Num	8	52	Outside Disturbance Code (Q)
7	FLOOD_ST	Num	8	44	Flood Stage Code (N)
12	HER_EGR	Num	8	84	Number of Heron and Egrets
2	MONTH	Num	8	4	Sampling Month
18	NONPERCH	Num	8	132	Number of Nonperching Species
6	POOL_DEP	Num	8	36	Pool Depth Code (P)
10	POOL_NUM	Num	8	68	Pool Number
17	RAPTORS	Num	8	124	Number of Raptor Species
11	RIVERML	Num	8	76	River Mile
15	SEABIRD	Num	8	108	Number of Seabird Species
14	SHOREBRD	Num	8	100	Number of Shorebird Species
9	SIZE	Num	8	60	Size of Dike Field
19	SONGBIRD	Num	8	140	Number of Songbird Species
20	TOT_BIRD	Num	8	148	Total Number of Birds
21	TOT_MAML	Num	8	156	Total Number of Mammals
22	TOT_WLD	Num	8	164	Total Number of Wildlife
4	VEGTYPE	Num	8	20	Vegetation Type Code (G)
13	WATERBRD	Num	8	92	Number of Water Bird Species
16	WATERFWL	Num	8	116	Number of Waterfowl Species
3	YEAR	Num	8	12	Sampling Year

Data Set Name: DIKEFLD.SPECIES1
Member Type: DATA
Engine: V606
Created: 11:32 Thursday, November 14, 1991
Last Modified: 11:32 Thursday, November 14, 1991
Label: Dike Field Wildlife w/o Zero Counts

Observations: 2754
Variables: 6
Indexes: 0
Observation Length: 40
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 8192
Number of Data Set Pages: 18
First Data Page: 1
Max Obs per Page: 157
Obs in First Data Page: 136
File : SPECIES1 DIKEFLD

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
6	COUNT	Num	8	32	Number of Species
1	DIKE	Char	4	0	Dike Field ID (M)
2	MONTH	Num	8	4	Sampling Month
4	POOL_NUM	Num	8	20	Number of Pools
5	SPECIES	Char	4	28	Species Code
3	YEAR	Num	8	12	Sampling Year

Data Set Name: DIKEFLD.SPECIES2
Member Type: DATA
Engine: V606
Created: 11:32 Thursday, November 14, 1991
Last Modified: 11:32 Thursday, November 14, 1991
Label: Dike Field Wildlife w/ Zero Counts

Observations: 19158
Variables: 7
Indexes: 0
Observation Length: 48
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 7168
Number of Data Set Pages: 162
First Data Page: 1
Max Obs per Page: 119
Obs in First Data Page: 99
File : SPECIES2 DIKEFLD

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
7	ANIMALCD	Num	8	40	Animal Group Code (L)
6	COUNT	Num	8	32	Number of Species
1	DIKE	Char	4	0	Dike Field ID (M)
2	MONTH	Num	8	4	Sampling Month
4	POOL_NUM	Num	8	20	Number of Pools
5	SPECIES	Char	4	28	Species Code
3	YEAR	Num	8	12	Sampling Year

Table (M). Dike Field Codes

KEPT - Kentucky Point
FODE - Forked Deer
ASGO - Ashport - Golddust
RECR - Redman Pt. - Robinson Crusoe
POLA - Porters Lake
MOBA - Montezuma Bar
ISST - Island 62
ISSO - Island 70
CHLA - Chicot Landing
WATE - Waterproof

Table (N). Dike Field Flood Codes

1 - Water Flowing Over Dikes
2 - Dike Exposed At Least 3 Feet
3 - No Water Flowing Through Dike Field

Table (O). Dike Field Age Codes

1 - Pre 1951
2 - 1951 - 1970
3 - 1971 - Present

Table (P). Dike Field Pool Depth Codes

1 - Deep Water
2 - Intermittent
3 - Shallow

Table (Q). Dike Field Disturbance Codes

1 - No Human Use
2 - Recreational
3 - Constant Construction

Data Set Name: REVET.GRNDCOVR
Member Type: DATA
Engine: V606
Created: 11:38 Thursday, November 14, 1991
Last Modified: 11:38 Thursday, November 14, 1991
Label: Revetment Percent Ground Cover

Observations: 2946
Variables: 6
Indexes: 0
Observation Length: 33
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 22528
Number of Data Set Pages: 6
First Data Page: 1
Max Obs per Page: 500
Obs in First Data Page: 476
File : GRNDCOVR REVET

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
6	COVER	Num	8	25	Percent Ground Cover
2	RIVRMILE	Num	8	1	River Mile
4	SEGMENT	Char	2	17	Segment Number (V)
1	SITECD	Char	1	0	Site ID (R)
5	SPECIES	Char	6	19	Species Code
3	TRANSECT	Num	8	9	Transect Number

Data Set Name: REVET.HEADER
Member Type: DATA
Engine: V606
Created: 11:38 Thursday, November 14, 1991
Last Modified: 11:38 Thursday, November 14, 1991
Label: Revetment Vegetation Header Information

Observations: 1148
Variables: 18
Indexes: 0
Observation Length: 106
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 21504
Number of Data Set Pages: 7
First Data Page: 1
Max Obs per Page: 182
Obs in First Data Page: 160
File : HEADER REVET

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
10	AGE	Num	8	40	Revetment Age
14	CANOPY	Num	8	66	Percent Canopy Cover
12	DEBRIS	Num	8	50	Percent Debris
5	DISTANCE	Num	8	18	Distance from River (meters)
13	HERBCOVR	Num	8	58	Percent Herbaceous Cover
7	REVETMNT	Char	2	28	Revetment Type (T)
2	RIVRMILE	Num	8	1	River Mile
11	RIVRTYPE	Char	2	48	River Type (S)
6	SEGMENT	Char	2	26	Segment Number (V)
1	SITECD	Char	1	0	Site ID (R)
4	SITEPOS	Char	1	17	Site Position
18	SLOPE	Num	8	98	Estimated Slope
16	SNDWIDTH	Num	8	82	Sandbar Width
9	SUBDEPTH	Num	8	32	Depth of Substrate
8	SUBTYPE	Char	2	30	Substrate Type (V)
15	TOTREEHT	Num	8	74	Estimated Tree Height
3	TRANSECT	Num	8	9	Transect Number
17	TREEZONE	Num	8	90	Width of Tree Zone

Data Set Name: REVET.SEEDLING
Member Type: DATA
Engine: V606
Created: 11:38 Thursday, November 14, 1991
Last Modified: 11:38 Thursday, November 14, 1991
Label: Revetment Seedling Density

Observations: 197
Variables: 6
Indexes: 0
Observation Length: 33
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 22528
Number of Data Set Pages: 1
First Data Page: 1
Max Obs per Page: 500
Obs in First Data Page: 197
File : SEEDLING REVET

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
6	NUMBER	Num	8	25	Number of Species
2	RIVRMILE	Num	8	1	River Mile
4	SEGMENT	Char	2	17	Segment Number (V)
1	SITECD	Char	1	0	Site ID (R)
5	SPECIES	Char	6	19	Species Code
3	TRANSECT	Num	8	9	Transect Number

Data Set Name: REVET.TREECOVR
Member Type: DATA
Engine: V606
Created: 11:38 Thursday, November 14, 1991
Last Modified: 11:38 Thursday, November 14, 1991
Label: Revetment Percent Tree Cover

Observations: 440
Variables: 6
Indexes: 0
Observation Length: 33
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 22528
Number of Data Set Pages: 1
First Data Page: 1
Max Obs per Page: 500
Obs in First Data Page: 440
File : TREECOVR REVET

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
6	COVER	Num	8	25	Percent Canopy Cover
2	RIVRMILE	Num	8	1	River Mile
4	SEGMENT	Char	2	17	Segment Number (V)
1	SITECD	Char	1	0	Site ID (R)
5	SPECIES	Char	6	19	Species Code
3	TRANSECT	Num	8	9	Transect Number

Data Set Name: REVET.TREEDIAM
Member Type: DATA
Engine: V606
Created: 11:38 Thursday, November 14, 1991
Last Modified: 11:38 Thursday, November 14, 1991
Label: Revetment Tree Diameter Measures

Observations: 105
Variables: 6
Indexes: 0
Observation Length: 31
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 18432
Number of Data Set Pages: 1
First Data Page: 1
Max Obs per Page: 428
Obs in First Data Page: 105
File : TREEDIAM REVET

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
6	DIAMETER	Num	8	23	Tree Diameter (Inches)
2	RIVRMILE	Num	8	1	River Mile
4	SEGMENT	Char	2	17	Segment Number (V)
1	SITECD	Char	1	0	Site ID (R)
5	SPECIES	Char	4	19	Species Code
3	TRANSECT	Num	8	9	Transect Number

Data Set Name:	REVET.TREENUM	Observations:	257
Member Type:	DATA	Variables:	9
Engine:	V606	Indexes:	0
Created:	11:38 Thursday, November 14, 1991	Observation Length:	55
Last Modified:	11:38 Thursday, November 14, 1991	Deleted Observations:	0
Label:	Revetment Tree Density		

-----Engine/Host Dependent Information-----

Data Set Page Size:	5120
Number of Data Set Pages:	4
First Data Page:	1
Max Obs per Page:	76
Obs in First Data Page:	54
File :	TREENUM REVET

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
2	RIVRMILE	Num	8	1	River Mile
4	SEGMENT	Char	2	17	Segment Number (V)
1	SITECD	Char	1	0	Site ID (R)
6	SIZE1	Num	8	23	# of Species Diameter <= 2.5 in.
7	SIZE2	Num	8	31	# of Species 2.5 in.< Diameter < 6 in.
8	SIZE3	Num	8	39	# of Species 6.0 in.< Diameter <= 10 in.
9	SIZE4	Num	8	47	# of Species Diameter > 10 in.
5	SPECIES	Char	4	19	Species Code
3	TRANSECT	Num	8	9	Transect Number

Data Set Name: REVET.VINES
Member Type: DATA
Engine: V606
Created: 11:38 Thursday, November 14, 1991
Last Modified: 11:38 Thursday, November 14, 1991
Label: Revetment Vine Density

Observations: 53
Variables: 6
Indexes: 0
Observation Length: 33
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 22528
Number of Data Set Pages: 1
First Data Page: 1
Max Obs per Page: 500
Obs in First Data Page: 53
File : VINES REVET

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
6	NUMBER	Num	8	25	Number of Species
2	RIVRMILE	Num	8	1	River Mile
4	SEGMENT	Char	2	17	Segment Number (V)
1	SITECD	Char	1	0	Site ID (R)
5	SPECIES	Char	6	19	Species Code
3	TRANSECT	Num	8	9	Transect Number

Table (R). Revetment Site Codes

B - Delta Point
C - Carolina
D - Bougere
E - False Point
F - Milliken Bend
G - Junior
H - Tropical Bend
I - Reserve
J - Romeville
K - New River Bend
L - Point Coupee
M - Bougere
N - Coochie
O - Gibson
P - Kempe Point
3 - Catfish Point
4 - Cypress Bend
5 - Eutaw-Mounds
6 - Walnut Point, Kentucky Bend
8 - Boies Point
9 - Island 84

Table (S). River Type Codes

BE - Bend
LB - Lower Bend
PC - Point Cove
PT - Point
SC - Straight Cove
ST - Straight
UB - Upper Bend

Table (T). Revetment Type Codes

AC - Asphalt Over Concrete
AS - Asphalt
CA - Concrete Mat Over Asphalt
CM - Concrete Mat
RA - Rip-Rap Over Asphalt
RC - Rip-Rap Over Concrete
RM - Rip-Rap Over Concrete Mat
RR - Rip-Rap
UN - Unknown

Table (U). Revetment Subtype Codes

GR - Gravel
NO - No Substrate
RS - Rip-Rap and Sand
SA - Sand
SI - Silt
SR - Silt Over Rip-Rap
SS - Sand and Silt

Table (V). Segment Codes

1 - 0-2 Meters from River
2 - 2-4 Meters from River
3 - 4-6 Meters from River
etc.

Appendix H

Lower Mississippi River Environmental Program
Hydroacoustic Databases

Contents Procedure
SAS Data Library Directory

Page	Name	Library	Memtype	#Obs	Label
H2	DFP_EG	HYDROACU	DATA	5792	Dike Field Pool: Echogram Data
H3	DFP_TS	HYDROACU	DATA	46800	Dike Field Pool: Target Strength Data
H4	RV_EG	HYDROACU	DATA	4979	Revetment: Echogram Data
H5	RV_TS	HYDROACU	DATA	9000	Revetment: Target Strength Data
H6	SC_EG	HYDROACU	DATA	1540	Secondary Channels: Echogram Data
H7	SC_TS	HYDROACU	DATA	4979	Secondary Channels: Target Strength Data

Data Set Name: HYDROACU.DFP_EG
Member Type: DATA
Engine: V606
Created: 13:49 Tuesday, November 12, 1991
Last Modified: 13:49 Tuesday, November 12, 1991
Label: Dike Field Pool: Echogram Data

Observations: 5792
Variables: 9
Indexes: 0
Observation Length: 60
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 2048
Number of Data Set Pages: 208
First Data Page: 1
Max Obs per Page: 28
Obs in First Data Page: 8
File : DFP_EG HYDROACU

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
7	BDEPTH	Num	8	36		Bottom Depth (meters)
9	COUNT	Num	8	52		Fish Target
8	DATE	Num	8	44	DATE7.	Sampling Date
1	LOC	Char	3	0		Sampling Location
5	POSITION	Num	8	20		Sampling Position
2	SAMPNO	Char	1	3		Sample Number (A or P)
6	TDEPTH	Num	8	28		Target Depth (meters)
4	TLENGTH	Num	8	12		Tow Length
3	TRANSECT	Num	8	4		Transect ID

Data Set Name: HYDROACU.DFP_TS
Member Type: DATA
Engine: V606
Created: 13:49 Tuesday, November 12, 1991
Last Modified: 13:49 Tuesday, November 12, 1991
Label: Dike Field Pool: Target Strength Data

Observations: 46800
Variables: 6
Indexes: 0
Observation Length: 43
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 17408
Number of Data Set Pages: 149
First Data Page: 1
Max Obs per Page: 316
Obs in First Data Page: 296
File : DFP_TS HYDROACU

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
1	DATE	Num	8	0	DATE7.	Sampling Date
2	LOC	Char	3	8		Sampling Location
5	RANGE_MP	Num	8	27		Mid Point Depth Range (meters)
3	TRANSECT	Num	8	11		Transect ID
4	TS	Num	8	19		Target Strength
6	WT_COUNT	Num	8	35		Weighted Count

Data Set Name: HYDROACU.RV_EG
Member Type: DATA
Engine: V606
Created: 13:50 Tuesday, November 12, 1991
Last Modified: 13:50 Tuesday, November 12, 1991
Label: Revetment: Echogram Data

Observations: 4979
Variables: 9
Indexes: 0
Observation Length: 62
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 10240
Number of Data Set Pages: 37
First Data Page: 1
Max Obs per Page: 138
Obs in First Data Page: 118
File : RV_EG HYDROACU

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
7	BDEPTH	Num	8	38		Bottom Depth (meters)
9	COUNT	Num	8	54		Fish Target
8	DATE	Num	8	46	DATE7.	Sampling Date
1	LOC	Char	3	0		Sampling Location
5	POSITION	Num	8	22		Sampling Position
2	SURVEY	Char	3	3		Survey Type (P-Parallel, Z-Zig Zag)
6	TDEPTH	Num	8	30		Target Depth (meters)
4	TLENGTH	Num	8	14		Tow Length
3	TRANSECT	Num	8	6		Transect ID

Data Set Name: HYDROACU.RV_TS
Member Type: DATA
Engine: V606
Created: 13:51 Tuesday, November 12, 1991
Last Modified: 13:51 Tuesday, November 12, 1991
Label: Revetment: Target Strength Data

Observations: 9000
Variables: 8
Indexes: 0
Observation Length: 52
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 1024
Number of Data Set Pages: 602
First Data Page: 2
Max Obs per Page: 15
Obs in First Data Page: 9
File : RV_TS HYDROACU

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
8	DATE	Num	8	44	DATE7.	Sampling Date
1	LOC	Char	3	0		Sampling Location
6	RANGE_MP	Num	8	28		Mid Point Depth Range (meters)
2	SURVEY	Char	1	3		Survey Type (P-Parallel Z-Perpendicular)
4	TLENGTH	Num	8	12		Tow Length
3	TRANSECT	Num	8	4		Transect ID
5	TS	Num	8	20		Target Strength
7	WT_COUNT	Num	8	36		Weighted Count

Data Set Name: HYDROACU.SC_EG
Member Type: DATA
Engine: V606
Created: 13:51 Tuesday, November 12, 1991
Last Modified: 13:51 Tuesday, November 12, 1991
Label: Secondary Channels: Echogram Data

Observations: 1540
Variables: 4
Indexes: 0
Observation Length: 26
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 5120
Number of Data Set Pages: 12
First Data Page: 1
Max Obs per Page: 134
Obs in First Data Page: 112
File : SC_EG HYDROACU

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
4	DENSITY	Num	8	18	Density Per Cubic Meter of Water
2	DEPTH	Num	8	3	Depth (meters)
1	LOC	Char	3	0	Sampling Location
3	STATION	Char	7	11	Sampling Station

Data Set Name: HYDROACU.SC_TS
Member Type: DATA
Engine: V606
Created: 13:51 Tuesday, November 12, 1991
Last Modified: 13:51 Tuesday, November 12, 1991
Label: Secondary Channels: Target Strength Data

Observations: 4979
Variables: 9
Indexes: 0
Observation Length: 62
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 10240
Number of Data Set Pages: 37
First Data Page: 1
Max Obs per Page: 138
Obs in First Data Page: 118
File : SC_TS HYDROACU

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
7	BDEPTH	Num	8	38		Bottom Depth (meters)
9	COUNT	Num	8	54		Fish Target
8	DATE	Num	8	46	DATE7.	Sampling Date
1	LOC	Char	3	0		Sampling Location
5	POSITION	Num	8	22		Sampling Position
2	SURVEY	Char	3	3		Survey Type (P-Parallel, Z-Zig Zag)
6	TDEPTH	Num	8	30		Target Depth (meters)
4	TLENGTH	Num	8	14		Tow Length
3	TRANSECT	Num	8	6		Transect ID

Appendix I
Lower Mississippi River Environmental Program
Other Eddy Databases

Contents Procedure
SAS Data Library Directory

Page	Name	Library	Memtype	#Obs	Label
I2	LARFISH	EDDY	DATA	1196	Revetment Eddy Study: Larval Fish
I3	PLANKTON	EDDY	DATA	67	Revetment Eddy Study: Plankton
I4	ZOOPLANK	EDDY	DATA	56	Revetment Eddy Study: Zooplankton

Data Set Name: EDDY.LARFISH
Member Type: DATA
Engine: V606
Created: 14:05 Wednesday, November 6, 1991
Last Modified: 14:05 Wednesday, November 6, 1991
Label: Revetment Eddy Study: Larval Fish

Observations: 1196
Variables: 14
Indexes: 0
Observation Length: 111
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 13312
Number of Data Set Pages: 12
First Data Page: 1
Max Obs per Page: 108
Obs in First Data Page: 91
File : LARFISH EDDY

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
5	CONV	Num	8	9		Conversion Factor to Nos per Cu Meter
13	DATE	Num	8	73	DATE7.	Sampling Date
2	LOC	Char	3	1		Sampling Location
12	NO_EGGS	Num	8	65		Number of Eggs
7	NO_JUV	Num	8	25		Number of Juveniles
10	NO_MESO	Num	8	49		Number of Mesolarvae
11	NO_META	Num	8	57		Number of Metalarvae
9	NO_PROTO	Num	8	41		Number of Protolarvae
1	PERIOD	Char	1	0		Diel Period (D-Day, N-Night)
4	SAMPNO	Char	2	7		Sample Number
6	SPECODE	Num	8	17		Taxonomic Code
3	STATION	Char	3	4		Sampling Station
14	TAXA	Char	30	81		Taxonomic or Common Name
8	TOT_LAR	Num	8	33		Total Number of Larvae

Data Set Name: EDDY.PLANKTON
Member Type: DATA
Engine: V606
Created: 14:05 Wednesday, November 6, 1991
Last Modified: 14:05 Wednesday, November 6, 1991
Label: Revetment Eddy Study: Plankton

Observations: 67
Variables: 6
Indexes: 0
Observation Length: 25
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 10240
Number of Data Set Pages: 1
First Data Page: 1
Max Obs per Page: 276
Obs in First Data Page: 67
File : PLANKTON EDDY

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Label
6	DATE	Num	8	17	DATE7.	Sampling Date
2	LOC	Char	3	1		Sampling Location
1	PERIOD	Char	1	0		Diel Period (D-Day, N-Night)
4	SAMPNO	Char	2	7		Sample Number
3	STATION	Char	3	4		Sampling Station
5	TOT_NUM	Num	8	9		Total Density (Nos/Cu Meter)

Data Set Name: EDDY.ZOOPLANK
Member Type: DATA
Engine: V606
Created: 14:05 Wednesday, November 6, 1991
Last Modified: 14:05 Wednesday, November 6, 1991
Label: Revetment Eddy Study:Zooplankton

Observations: 56
Variables: 9
Indexes: 0
Observation Length: 54
Deleted Observations: 0

-----Engine/Host Dependent Information-----

Data Set Page Size: 28672
Number of Data Set Pages: 1
First Data Page: 1
Max Obs per Page: 434
Obs in First Data Page: 56
File : ZOOPLANK EDDY

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Label
5	CLADOCER	Num	8	14	Cladocera per cu Meter
6	COPEPODA	Num	8	22	Copoda per cu Meter
8	CORBIC	Num	8	38	Corbicula per cu Meter
4	PERIOD	Char	1	13	Diel Period (D-Day, N-Night)
7	ROTIFERA	Num	8	30	Rotifera per cu Meter
2	SAMPNO	Char	2	3	Sample Number
1	STATION	Char	3	0	Sampling Station ID
9	TOTAL	Num	8	46	Total Zooplankton per cu Meter
3	TRIP	Num	8	5	Sampling Trip Number