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For predicting water quality and eutrophication potential, is the objective of EWQOS Work Unit IE.

This report documents the establishment of a computerized data base containing water quality, hydrologic, and morphometric information for 299 reservoirs operated by the U. S. Army Corps of Engineers (CE). Sources of information included STORET (including the National Eutrophication Survey data), U. S. Department of Agriculture sedimentation survey data sheets, project design memoranda and CE District and Division data files. Supplemental sources included maps, project brouchures, and reports. Programming for data manipulation and analysis is in the PL/I and FORTRAN IV languages. BMDP and SAS programs were employed during preliminary analysis. The data base presently contains over 2.5 million water quality observations taken at 4451 stations located in or around 271 CE reservoirs.

Methods for estimating volume and area variations with elevation, required for volume-averaging of water quality data and for calculating material loadings, have been developed. Preliminary analyses have also been performed to assess the importance of spatial and temporal variability to the computation of representative water quality values.

Appendix A contains data inventories for each project included in the data base.

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PREFACE

This report was prepared by Dr. William W. Walker, Jr., Environmental Engineer, Concord, Mass., for the U. S. Army Engineer Waterways Experiment Station (WES) under Contract DACW39-78-0053 dated 7 June 1978. The study forms part of the Environmental and Water Quality Operational Studies (EWQOS) Work Unit IE, Simplified Techniques for Predicting Reservoir Water Quality and Eutrophication Potential. The EWQOS Program is sponsored by the Office, Chief of Engineers, and is assigned to the WES under the purview of the Environmental Laboratory (EL).

The study was under the direct WES supervision of Dr. Robert H. Kennedy and the general supervision of Mr. Donald L. Robey, Chief, Water Quality Modeling Group; Dr. Rex L. Eley, Chief, Ecosystem Research and Simulation Division; Dr. Jerry Mahloch, Program Manager, EWQOS; and Dr. John Harrison, Chief, EL.

The Commanders and Directors of WES during this study were COL John L. Cannon, CE, and COL Nelson P. Conover, CE. The Technical Director was Mr. Fred R. Brown.

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CONVERSION FACTORS, U. S. CUSTOMARY TO METRIC (SI) UNITS OF MEASUREMENT

U. S. customary units of measurement used in this report can be converted to metric (SI) units as follows:

Multiply	Ву	To Obtain
acres	4046.873	square metres
acre-feet	1233.482	cubic metres
cubic feet per second	0.02831685	cubic metres per second
Fahrenheit degrees	5/9	Celsius degrees or Kelvins*
feet	0.3048	metres
inches	2.54	centimetres
miles (U. S. statute)	1.609344	kilometres
pounds (mass) per cubic foot	16.01846	kilograms per cubic metre
square miles	2.589988	square kilometres
tons (2000 lb, mass)	907.1847	kilograms

^{*} To obtain Celsius (C) temperature readings from Fahrenheit (F) readings, use the following formula: C = (5/9)(F - 32). To obtain Kelvin (K) readings, use: K = (5/9)(F - 32) + 273.15.

EMPIRICAL METHODS FOR PREDICTING

EUTROPHICATION IN IMPOUNDMENTS

PHASE I: DATA BASE DEVELOPMENT

PART I: INTRODUCTION

- 1. This report documents the development of a data base describing certain water quality aspects of reservoirs operated by the U. S. Army Corps of Engineers (CE). The data base includes information on project location, morphometry, water quality, hydrology, and sedimentation. As part of the Environmental and Water Quality Operational Sutdies (EWQOS) Program being conducted by the Office, Chief of Engineers, U. S. Army, this work has been conducted to provide groundwork for assessing empirical approaches to describing and predicting reservoir trophic status.
- 2. One basic strategy employed in assembling this data base has been to utilize existing, centralized sources of information first.

 These have included nationwide data bases maintained by various federal agencies, as well as a few sources of data tabulated at a regional level. A framework has been designed and implemented for storing and accessing this information, with flexibility for updating and general access, so as to meet the specific objectives of this project. Having utilized centralized data sources to their fullest extent, data gaps have been identified and used to set priorities for locating and incorporating information from relatively diffuse sources, such as specific project design memoranda and other published or unpublished reports dealing with individual projects. This stage-wise data-gathering procedure has been designed with efficiency and cost-effectiveness in mind.
- 3. Another basic strategy which has been employed in compiling water quality and hydrologic data has been to assemble individual observations in space and time (i.e., "raw data"), rather than average values. This strategy accomplishes the following:

- a. It provides for the broadest possible range of future uses of the data base.
- <u>b</u>. It eliminates possible variations due to the use of different averaging procedures.
- <u>c</u>. It provides a basis for error analysis and assessment of data adequacy in future model testing.

These advantages must be weighed against the major disadvantage of the approach—it involves management of a large amount of information. The water quality file presently contains two million observations taken at 4451 stations located in or around 271* CE projects.

- 4. Management of these types and quantities of information entails use of a consistent framework. One basic strategy has been to tag each bit of information with district, project, and data source codes. While the validity of the information at its original source cannot be substantiated, use of a systematic approach in building the data base insures that the data are transferred and accessed properly. Keeping track of original data sources provides a means of checking any piece of information at its source and identifying discrepancies among multiple data sources for the same value. The latter provides one indication of data and source reliability. Another validity test involves checking for internal consistency in a given set of values. For example, the morphometric profiles have been tested by comparing reported volumes at any elevation with the integral of reported areas with respect to depth. The third validity test involves distribution of portions of the data base to district offices for verification and editing. This entails their cooperation and assumes that district-level sources of information for specific projects are the most accurate. This approach has been taken for upgrading the morphometric data file with reasonable success.
- 5. In its current state, the data base is a collection of information in a well-defined framework. It is not a user-oriented system designed for frequent interactive use. Such a system would require

^{*} A total of 299 projects are included in the data base; no water quality data have been located for 28.

extensive software development geared to a specific computer system and to the intended uses of the information in various areas of reservoir management. The scope of this project has been limited to compiling the information, organizing it, and extracting portions that are directly relevant to analysis of eutrophication problems in reservoirs. With additional software development and systems programming, the data base could be made accessible for more generalized purposes.

6. The complete data base consists of a collection of computer files, reports, data forms, and maps. As discussed above, each piece of information is referenced by CE district, project, and data source codes. Part II of this report describes the facilities, methods, and agency contacts used in this work. Part III describes the general structure of the data base. Parts IV through XI document the sources and approaches used in compiling each element and present data inventories. Parts XII-XIV summarize results of specific analyses which lay the groundwork for use of the data base in Phase II of this project. These analyses cover the following topics: (XII) numerical characterization of reservoir hypsographic curves; (XIII) assessment of the variability of trophic state indicators in reservoirs; and (XIV) testing of methods for estimation of nutrient budgets. Conclusions and Recommendations are given in Part XV and XVI, respectively. Appendix A contains data inventories by project and district.

PART II: FACILITIES AND METHODS

- 7. Compilation and manipulation of the various data files documented in this report have been done on an IBM 370-168 computer maintained by the Information Processing Center of the Massachusetts Institute of Technology (MIT). This facility has been used in a batch processing mode (OS/VS1) and in an interactive mode through IBM's Conversational Monitoring System (CMS). Three media have been used for data storage where appropriate: (1) 9-track tapes (6250 bytes per inch); (2) 3350 disc packs (OS and CMS); and (3) cards. Copies of the current versions of all files have been transferred to tapes for secure storage and future access.
- 8. While most of the information used to assemble the data base has been read from tapes supplied by various agencies, some files (in particular, the project lists, morphometry, and sedimentation files) have been assembled from tabulated data. In these cases, cards have been used for data entry. Keypunching has been done and verified using contract services offered by MIT.
- 9. Programming for data manipulation and analysis is in the PL/I and FORTRAN IV languages. The Biomedical Computer Program package (BMDP) 1 and SAS 2 have also been used in preliminary data analyses. Plots have been produced with a Calcomp line plotter.
- 10. Access to the Environmental Protection Agency (EPA) STORET system has been acquired through the cooperation of the Water Quality Laboratory of the New England Division of the Corps of Engineers. The staff of the Systems Analysis Branch of the EPA Region I Office in Boston has been helpful in submitting STORET retrievals. The identification of water quality and quantity monitoring stations has been done partially using the services of the National Water Data Exchange of the U. S. Geological Survey in Reston, Virginia. The Corvallis Environmental Research Laboratory of the U. S. Environmental Protection Agency has provided reports and data files from the National Eutrophication Survey (NES) 4. Sedimentation survey sheets have been obtained through the

Sedimentation Laboratory of the U. S. Department of Agriculture and the South Technical Service Center of the U. S. Soil Conservation Service in Fort Worth, Texas.

11. Staff members of the Environmental Laboratory of the U. S. Army Engineer Waterways Experiment Station (WES) have provided assistance in extracting and coding morphometric and drainage area data from project design memoranda and in coding water quality data complied outside of STORET. The Ohio River Division (ORD) of the Corps of Engineers provided tapes containing water quality data gathered by district monitoring programs in that division.

PART III: DATA BASE STRUCTURE

12. Figure 1 depicts the organization of the data base into eight major file groups:

CODES - Data Base Codes

LISTS - Project Lists

WATS - Watershed Characteristics

RESER - Reservoir Characteristics

HYDRO - Hydrology Data

9

WQ - Water Quality Data

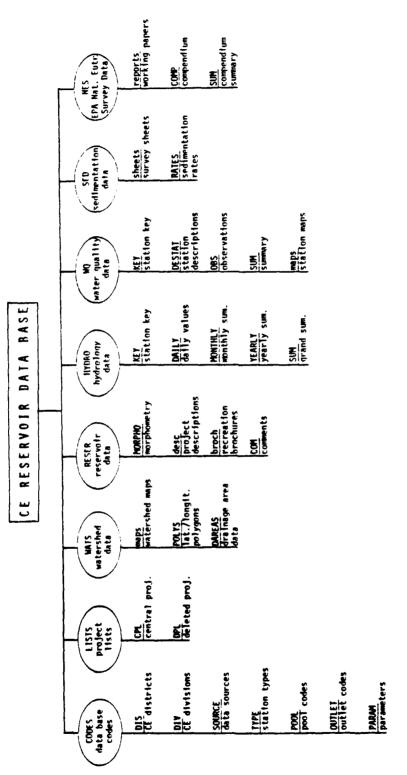
ED - Sedimentation Data

NES - EPA National Eutrophication Survey Data

Each group contains a number of computer files, data forms, and/or maps. File names are in two parts. The first refers to the major file group and the second, to the specific file within that group. For example, the water quality station key is given the name WQ.KEY. A lowercase second name indicates that the element is a map or data form (not a computer file).

- 13. U. S. customary units have been used most extensively in the files. This has facilitated the transfer and verification of information, since most of the original sources of morphometric, drainage area, hydrologic, and sedimentation data were also in U. S. customary units. One exception to this convention is the EPA National Eutrophication Survey Compendium file, which was supplied by the EPA in metric units.
- 14. The development, structure, and contents of each file group are discussed in the following sections. The sources and approaches used in compiling the information are described. Each file is characterized with respect to format and content. Since most files are too large for listing, data holdings are summarized in an inventory format, with categories defined by file, variable, and CE division. Data inventories by project and district are included in Appendix A. Record formats for the files described in this report are defined as PL/I data structures.

Figure l Elements and Structure of the CE Reservoir Data Base



PART IV: CODES - DATA BASE CODES

15. CODES consists of a group of files which define referencing systems used in various portions of the data base. These include the following:

CODES.DIS
CE District Codes
CODES.DIV
CE Division Codes
CODES.SOURCE
Data Source Codes
CODES.TYPE
Station Type Codes
CODES.POOL
CODES.OUTLET
CODES.PARAM
Parameter Codes

Listings of these files are given in Tables 1 through 5.

- 16. District and division codes (Table 1) provide a numerical indexing system for each of 36 districts and 10 divisions, respectively. Districts are grouped within divisions. The New England Division is unique in that it is not comprised of districts. In order to permit referencing of all projects at the district level, district number one has been defined to represent the New England Division.
- 17. Data source codes (Table 2) provide a referencing system for nine data sources which are used frequently in the data base. Identifying each data entry by source provides a basis for validation and sorting out discrepancies among multiple data sources for a given project and characteristic.
- 18. A total of nine station type codes have been defined for use in the water quality and hydrology files (Table 3). These provide a frame of reference for locating monitoring stations within a given project. Broadly, these permit distinction among stations located on upstream tributaries, within reservoir pools, and in or below reservoir discharge streams. Within-pool stations are further classified as upper-pool, mid-pool, or near-dam. Mid-pool is used as a default for lake stations. The remaining two are used in cases where coordinates, maps, and/or station location descriptions provide an adequate basis for more refined classification. Secondary tributary codes (upstream and downstream from impoundments) have been used only for some EPA

National Eutrophication Survey stations to aid in hydrologic budget computations.

- 19. Pool and outlet codes (Table 4) are used in the morphometric file. These provide systems for referencing various elevations to pool allocations for specific uses, ranges of operating levels, and locations and types of principal outlets. The systems were initially designed at WES. Additional codes have been added as needed during subsequent morphometric data compilation.
- 20. The parameter codes file (Table 5)* is used to reference hydrologic and water quality data. The file contains 94 members, each identified by a water quality parameter code, STORET code ³, measurement type, and units. The 5-digit STORET code is used in retrieving water quality and hydrologic data from the STORET system. It is also used to identify measurements in the hydrology files. In addition to the 89 basic water quality parameter codes included in the file, there are 11 redundant parameter codes, which have been used in retrieving water quality data from STORET. Redundant codes result from multiple means of expressing a given type of observation (e.g., temperature in degrees C or degrees F or total phosphorus as P or as PO₄). Redundancies have been eliminated in final data storage by applying appropriate conversion factors in each case.

^{*} Table 5 contains U. S. customary units of measurement. A table of factors for converting U. S. customary units of measurement to metric (SI) units is presented on page 8.

Table 1
District and Division Codes

Code	District	Div	Code	Division
01	New England	01	01	New England
02	New York	02	02	North Atlantic
03	Philadelphia	02	03	South Atlantic
04	Baltimore	02	04	Ohio River
05	Norfolk	02	05	North Central
06	Wilmington	03	06	Lower Mississippi Valley
07	Charleston	03	07	South West
08	Savannah	03	08	Missouri River
09	Jacksonville	03	09	North Pacific
10	Mobile	03	10	South Pacific
11	Buffalo	05		
12	Detroit	05		
13	Chicago	05		
14	Rock Island	05		
15	St. Paul	05		
16	Pittsburgh	04		
17	Huntington	04		
18	Louisville	04		
19	Nashville	04		
20	St. Louis	06		
21	Memphis	06		
22	Vicksburg	06		
23	New Orleans	06		
24	Little Rock	07		
25	Tulsa	07		
26	Fort Worth	07		
27	Galveston	07		
28	Albuquerque	07		
29	Kansas City	08		
30	Omaha	08		
31	Walla Walla	09		
32	Seattle	09		
33	Portland	09		
34	Sacramento	10		
35	San Francisco	10		
36	Los Angeles	10		

Table 2

Data Source Codes

Code	Data Source
00	Leidy and Jenkins
01	EPA National Eutrophication Survey
02	District or Division
03	Sedimentation Survey Sheets
04	Design Memoranda
05	USGS State Water Resources Data Reports
06	USGS/WATSTORE File
07	EPA STORET
80	INFONET - Ohio River Division

Table 3
Station Type Codes

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Code	Station Type
01	Tributary
02	Pool
03	Discharge
04	Pool (nr. dam)
05	Pool (headwaters)
06	Unused
07	Point source
80	Sec. trib. (downstr.)
09	Sec. trib. (upstr.)

Table 4
Pool and Outlet Codes

Code	Pool Type
01	Flood control
02	Conservation
03	Water quality
04	Minimum
05	Summer
06	Winter
07	Water supply
08	Power
09	Recreation
10	Dead storage
11	Multiple use
12	Stream bed
13	Top of dam
14	Period of record minimum
15	Period of record maximum
16	Normal
17	Maximum power
18	Minimum power
19	Sediment
20	Maximum regulated

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Code	Outlet Type
01	Intake
02	Spillway crest
03	Surface outlet
04	Bottom of gated spillway

Table 5
Parameter Codes

STORET	HYDRO	WQ Component	Units
00027 00028 72025 00068 72020	72020	01 Code for agency collecting sample 02 Code for agency analyzing sample 03 Depth of pond or reservoir 04 Maximum sample depth 05 Elevation	feet feet ft > msl
00062 72030 00054 72033 72034	00054	06 Elevation, reservoir surface 07 Elevation of reservoir pool 08 Reservoir storage 09 Flow, average daily, spillway 10 Flow, instantaneous, spillway	<pre>ft ft > msl acre-ft cfs cfs</pre>
00061 00060 00065 00010 00011 00300	00060 00065 00010	11 Stream flow, instantaneous 12 Stream flow, daily 13 Stream stage 14 Temp *14 Temp 15 02 Dissolved	cfs cfs feet deg-C deg-F mg/l
00299 00090 00094 00095 00400	00095 00 4 00	16 02 Dissolved, electrode 17 Oxidation reduction potential 18 Specific conductivity, field 19 Specific conductivity, lab 20 pH (field)	mg/l mv umhos/cm umhos/cm su
00403 00410 00435 00900 00940	00940	21 pH (lab) 22 Alkalinity, total as CaCo3 23 Acidity, total as CaCo3 24 Hardness, total as CaCo3 25 Chloride	su mg/l mg/l mg/l mg/l
00945 01045 71885 01046 01055 71883 01056	00945	26 Sulfate total 27 Iron, total as Fe *27 Iron total as Fe 28 Iron, dissolved 29 Manganese, total as Mn *29 Manganese total as Mn 30 Manganese, dissolved	mg/l ug/l mmg/l ug/l ug/l mmg/l ug/l

(Continued)

(Sheet 1 of 4)

^{*} Redundant water quality parameter code.

Table 5 (Continued)

STORET HYDRO	WQ Component	Units
00915 00927 00925	31 Calcium, total 32 Calcium, dissolved 33 Magnesium, total 34 Magnesium, dissolved 35 Sodium, total	mg/l mg/l mg/l mg/l mg/l
00937 00935 00070 00070	36 Sodium, dissolved 37 Potassium, total 38 Potassium, dissolved 39 Turbidity 40 Turbidity, transmissometer, percent transmission	mg/l mg/l mg/l jtu percent
00078 00077 * 00031 00034	41 Turbidity, Hach turbidometer 42 Transparency, Secchi 42 Transparency, Secchi 43 Light, percent remaining at given depth 44 Depth at which 1 percent of surface light rem 45 Color, true	ftu m in percent ft pt-co units
00955 00956 00310	46 Color, apparent 47 Silica, dissolved 48 Silica, total 49 BOD5 50 Carbon dioxide	<pre>pt-co units mg/1 mg/1 mg/1 mg/1</pre>
00681 00685 00691 00665	51 Carbon total organic 52 Carbon dissolved organic 53 Carbon total inorganic 54 Carbon, dissolved inorganic 55 Phosphorus, total as P 55 Phosphate, total as PO4 55 Phosphorus total as PO4	mg/1 mg/1 mg/1 mg/1 mg/1 mg/1
00669	56 Phosphorus, dissolved as P 57 Phosphorus total hydrolyzable as P 58 Phosphorus, hydrol + ortho, total, autoanal	mg/1 mg/1
00660 *	9 Phosphorus, dissolved ortho as P 9 Phosphate, ortho as P04 9 Phosphorus, inorganic total ortho as P (Continued)	mg/l mg/l mg/l mg/l

^{*} Redundant water quality parameter code.

(Sheet 2 of 4)

Table 5 (Continued)

STORET HYDRO	WQ Component	Units
00600	61 Total N	mg/l
71887	*61 Nitrogen total as NO3	mg/l
00605	62 Organic N	mg/l
00610	63 Ammonia N	mg/l
71845	*63 Ammonia, total as NH4	mg/l
00625	64 Total Kjeldahl N	mg/l
00630	65 NO2 + NO3-N	mg/l
00615	66 NO2-N	mg/1
71855	*66 Nitrite total as NO2	mg/l
00613	67 Nitrite nitrogen dissolved as N	mg/l
71856	*67 Nitrite dissolved as NO2	mg/l
00620	68 NO3-N	mg/1
71850	*68 Nitrate N as NO3	mg/l
00618	69 Nitrate nitrogen dissolved as N	mg/l
71851	*69 Nitrate N dissolved as NO3	mg/1
00500	70 Residue, total	mg/l
00505	71 Residue, total volatile	mg/l
00515	72 Residue, total filtrable dried at 105 deg C	ma /1
00530	73 Residue total non-filtrable dried at 105 deg C	mg/l mg/l
80154 80154	74 Suspended sediment conc - evap at 110 deg C	m~ /1
70300 70300	75 Residue total filtrable at 180 deg C	mg/l mg/l
32209	-	
32217	76 Chlorophyll-A fluorometric, corrected 77 Chlorophyll-A fluorometric, uncorrected	ug/1
32217	78 Chlorophyll-A trichromatic, corrected	ug/l
32211	79 Chlorophyll-A trichromatic, uncorrected	ug/l ug/l
32230	80 Chlorophyll-A	mg/l
	- •	•
60050	81 Algae, total	cells/ml
00570	82 Biomass, plankton	m1/1
85209	83 Algal growth potential	mg/l
60990	84 Zooplankton, other	no/liter
31616	85 Fecal coliform, memb filter, m-fc broth 44.5 deg	no/100 ml
31673	86 Fecal streptococci, memb filter, kf	
	agar, 35 deg	no/100 ml
31679	87 Fecal strep mf m-ent	no/100 ml
	(Continued)	

^{*} Redundant water quality parameter code.

(Sheet 3 of 4)

Table 5 (Concluded)

STORET	HYDRO	WQ Component	Units
50051		88 Flow rate instantaneous	mgd
50053		89 Conduit flow - monthly	mgd
70301	70301	Dissolved solids - sum of constituents	mg/1
80155	80155	Sediment discharge	tons/day
70291	70291	Dissolved sulfate discharge	tons/day
70290	70290	Dissolved chloride discharge	tons/day
70302	70302	Dissolved solids discharge	tons/day

(Sheet 4 of 4)

PART V: LISTS - PROJECT LISTS

21. LISTS, the second major file group, defines the referencing system used for CE projects in the data base. It consists of the following files:

LISTS.CPL - Central Project List LISTS.DPL - Deleted Project List

eutrophication.

The development and contents of these files are discussed below.

- 22. The data base is built around a central list of 299 reservoirs which have been identified from various sources and placed in the LISTS.CPL file. The regional distribution of these projects is shown in Figure 2. Breakdowns by CE district and division are given in Table 6. The following have been used as criteria for inclusion:
 - a. projects currently operated by the Corps of Engineers.
- b. projects having seasonal or permanent pools.
 The second criterion has been applied to eliminate locks and small run-of-the-river impoundments with short hydraulic residence times and little opportunity for inducing water quality changes, at least with respect to
- 23. The two primary sources of information used to develop an initial project list include a tabulation of CE projects with surface areas greater than 500 acres compiled by Leidy and Jenkins and a map of CE water resource projects. Based upon CE Water Resource Development Reports and information supplied by various CE district offices, the initial list has been screened to eliminate projects which are incomplete, not currently under CE control, and/or do not have appreciable pools. A separate list of impoundments which have been eliminated has been maintained for future reference (LISTS.DPL). Because it has not been feasible within the scope of this project to compile and incorporate data from detailed, project-specific reports, the current project list may contain some impoundments which do not conform to the above criteria. Similarly, some projects may have been missed. Inclusion and/or screening

of additional projects would be possible with more time devoted to compiling and examining detailed reports.

- 24. The record format used in the LISTS.CPL and LISTS.DPL files is given in Table 7. Files are listed in Tables 8 and 9, respectively. Each project has been assigned a unique, three-digit identification code to facilitate referencing in the data base. The location of each project is identified by CE division, district, state, county, latitude, longitude, and hydrologic unit. Hydrologic unit maps compiled by the U. S. Geological Survey (USGS) have been used to provide basic location data. Reservoirs lying on the boundaries of states, counties, and/or hydrologic units have been referenced based upon dam location. State and county codes refer to the standard federal coding system (FIPS) documented in the EPA's STORET user's manual. The latitudes and longitudes of projects in which surface elevation monitoring stations have been located refer to those stations, which occur most frequently at dam sites. In other situations, coordinates have been approximated from hydrologic unit maps and refer roughly to dam locations.
- 25. As shown in Table 1, the project list is cross-referenced to three independent data bases:
 - <u>a</u>. the EPA National Eutrophication Survey Working Papers 9.
 - $\underline{\mathbf{b}}$. the U. S. Department of Agriculture (USDA) compilation of reservoir sedimentation data 10 .
- c. the CE project file compiled by Leidy and Jenkins⁵. The cross-referencing system facilitates access to specific information on projects contained in these sources.

Figure 2

Regional Distribution of Reservoirs in Data Base

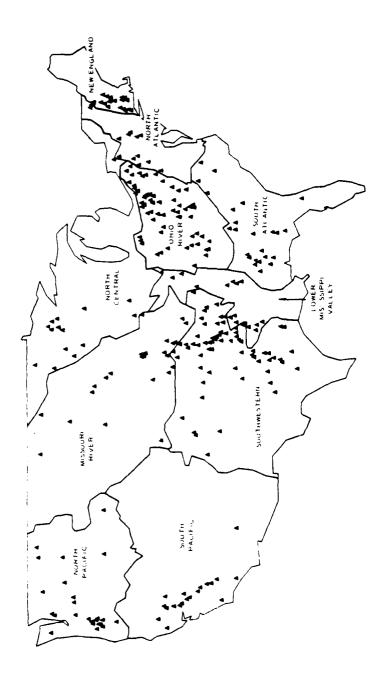


Table 6

Breakdown of Projects in the Central Project List by District and Division

Code	District	Number of Projects	Code	Division	Total Number of Projects
01	New England*	22	01	New England	22
02 03 04 05	New York Philadelphia Baltimore Norfolk	3 3 9 0	02	North Atlantic	15
06 07 08 09 10	Wilmington Charleston Savannah Jacksonville Mobile	3 1 2 1 17	03	South Atlantic	24
11 12 13 14 15	Buffalo Detroit Chicago Rock Island St. Paul	1 0 0 2 13	05	North Central	16
16 17 18 19	Pittsburg Huntington Louisville Nashville	14 28 15 7	04	Ohio River	64
20 21 22 23	St. Louis Memphis Vicksburg New Orleans	3 1 7 4	06	Lower Mississippi Valley	15
24 25 26 27 28	Little Rock Tulsa Fort Worth Galveston Albuquerque	10 35 17 0	07	South West	66
29 30	Kansas City Omaha	11 20	08	Missouri River	31
31 32 33	Walla Walla Seattle Portland	4 6 17	09	North Pacific	27
34 35 36	Sacramento San Francisco Los Angeles	15 2 2	10	South Pacific	19
	Total	299			299

Table 7

Record Format of the LISTS.CPL and LISTS.DPL Files

		****	/****
DECLARE 1 PL RECORD		/* LISTS.CPL FILE STRUCTURE (LENGTH = 100) +/	/* (0
		******	/*****
2 RES	PIC'8222B*	/* RESERVOIR NUMBER	•
2 RN AME	CHAR(28)	/* RESERVOIR NAME	•
2 STATE	PIC'228'	/* FIPS STATE CODE	:
2 DIV	PIC'22B'	/* CE DIVISION NUMBER	•
2 015	PIC'ZZB'	/* CE DISTRICT NUMBER	•
2 NE SWP	PIC'222B'	/* EPA-NES WORKING PAPER NUMBER	•
2 NESTOR	CHAR(2)	/* EPA-NES STORET REF. NUMBER	•
2 13	PIC'BZB'	/* LEIDY&JENKINS INDICATOR	•
2 SEDSURV	PIC, 22222,	/* SEDIMENTATION SURV. REF. NO.	`*
2 LAT	PIC, ZZV999	/* LATITUDE (DEG)	•
2 LONG	PIC. 222V999B*	/ LONGITUDE (DEG)	/•
2 HY DU	, 8666666666 , 0 I d	/* HYDROLOGIC UNIT CODE	•
2 COUNTY	PIC, 2228	/* FIPS COUNTY CODE	•
2 TR18	CHAR(16)	/* MAJOR TRIBUTARY NAME	•
2 UNUSED	CHAR(3)	/* BLANK	•

Table 8

Listing of the LISTS.CPL File

NEE NEE PRICE PRICE NEE PRICE NEE PRICE PR							
NEW ENGLAND	1 NED	ENGLAN	142 BUFFUMVILLE		10 806		LITTLE
New Rock and 147 LITICAVILLE	1 NEO	ENGLAN		25013			OUINEBAUG
NEW BENGLAND 509 WESTILLE	1 NED	ENG! AN	1	25013			WESTFIELD
NEW BENGLAND 550 MESTYLLE	1 NED	ENGLAR		25015			1011
NEW BENGLAND 152 COLCEROOK RIVER	1 NEO	ENGLAN		25027	057		OUTNEBAUG
WER ENGLAND 155 CUCLERDON RIVER CT 9009 41.622 73.037 0110005	1 NED		,	1	103		BRANCH
NEW E KOLLAND 155 HANGOCK SROOK CT 9009 41 732 793 793 793 793 793 793 793 793 793 793	1 NED		_	2002	73 036 01080207	•	SABMINGTON MAR
WER ENGLAND 156 MPP BECOK CT 9019 41.756 70.100005 WER ENGLAND 159 MROPHFIELD HOLLOW CT 9019 41.756 70.100005 WER ENGLAND 159 WROPHFIELD HOLLOW CT 9019 41.756 70.00002 WER ENGLAND 159 WROPHFIELD HOLLOW CT 9019 41.756 70.00002 WER ENGLAND 156 EVERET 70.00001 WER ENGLAND 165 MAINTENN 70.0000 70.00001 WER ENGLAND 174 MORTH SPRINGFIELD VY 50.000 70.0001 WER ENGLAND 70.0000 70.0000 70.00001 WER ENGLAND 70.0000 70.0000 70.0000 70.00001 WER ENGLAND 70.0000 70.0000 70.0000 70.0000 70.0000 WER ENGLAND 70.0000 70.0	1 NED	ENGLAN	_	6006	73.037 01100005	•	, A
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NW FINGLAND 159 MORTH FIELD BROOK CT 5005 41,600 73,000 0100005 NW FINGLAND 164 MEARS WOODWELL NH 33015 43,600 71,600 01700021 NW FINGLAND 165 EVERET NH 33015 43,600 71,600 01700021 NW FINGLAND 166 FANNINI N FALLS NH 33015 43,600 71,700 NW FINGLAND 166 FANNINI N FALLS NH 33015 43,600 71,700 NW FINGLAND 166 OFFER BROOK NH 33015 43,600 71,700 NW FINGLAND 167 MONNIAL N NH 33015 43,600 72,500 01000021 NW FINGLAND 170 BALL MOUNTAIN NH 33015 43,900 72,500 01000107 NW FINGLAND 170 BALL MOUNTAIN NT 50027 43,000 72,500 01000107 NW FINGLAND 170 BALL MOUNTAIN NT 50027 43,000 72,500 01000107 NW FINGLAND 170 BALL MOUNTAIN NT 50027 43,000 72,500 01000107 NW FINGLAND 170 BALL MOUNTAIN NT 50027 43,000 72,500 01000107 NW FINGLAND 170 BALL MOUNTAIN NT 50027 43,000 72,500 01000107 NW FINGLAND 170 BALL MOUNTAIN NT 50027 43,000 72,500 01000107 NW FINGLAND 170 BALL MOUNTAIN NT 50027 43,000 72,500 01000107 NW FINGLAND 170 BALL MOUNTAIN NT 50027 43,000 72,500 01000107 NW FINGLAND 170 BALL MOUNTAIN NT 50027 43,000 72,500 01000107 NW FINGLAND 170 BALL MOUNTAIN NT 50027 43,000 72,500 01000107 NW FINGLAND 170 BALL MOUNTAIN NT 50027 43,000 72,500 01000107 NW FINGLAND 170 BALL MOUNTAIN NT 50027 43,000 72,500 01000107 NW FINGLAND 170 BALL MOUNTAIN NT 50027 43,000 72,500 01000107 NW FINGLAND 170 BALL MOUNTAIN NT 50027 43,000 72,500 72,500 72,500 NW FINGLAND 170 BALL MOUNTAIN NT 50027 43,000 72,500 72,500 72,500 NW FINGLAND 170 BALL MOUNTAIN NT 50027 43,000 72,500 72,500 NW FINGLAND 170 BALL MOUNTAIN NT 50027 43,000 72,500	I NED	ENGLAN		9013	72.182 01100002		NATCHAUG
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NEW ENGLAND 66 FARNKITY FALLS	NED	ENGLAN		~			NIBANIST
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NEW ENGLAND 167 HORNINDON NH 33013 43.69 71.746 010000201	NED	ENGLA		32013			DEMICENTACE
NEW ENGLAND 168 OTTER BROOK N 3000 4 946 72.37 01080001 NEW ENGLAND 169 OTTER BROOK N 3000 4 2997 72.37 01080001 NEW ENGLAND 170 BALL MOUNTAIN V 50025 43.93 72.59 01080106 NEW ENGLAND 173 NOATH HARTLAND V 50025 43.03 72.59 01080106 NEW ENGLAND 174 TOWNSHEND V 50027 43.33 72.59 01080106 NEW ENGLAND 174 TOWNSHEND V 50027 43.03 72.59 01080106 NEW ENGLAND 174 TOWNSHEND V 50027 43.03 72.59 01080106 NEW ENGLAND 174 TOWNSHEND V 50027 44.38 72.59 01080106 NEW FORK 177 WATCHTSURE V 5002 44.38 72.59 01080107 NEW YORK 177 WATCHTSURE V 5002 44.38 72.59 01080107 SHILLADELPHIA 307 BELTZYLLE PA 42025 40.848 75.638 02040106 414 SHILLADELPHIA 318 FRANCIS W 14027 40.848 75.638 02040106 414 SHILLADELPHIA 318 FRANCIS W 14027 40.848 75.638 02040106 414 SHILLADELPHIA 318 FRANCIS W 14027 40.848 75.72 02040103 SHILLADELPHIA 318 FRANCIS W 14027 40.848 75.72 02050104 SHILLADELPHIA 318 FRANCIS W 14027 40.849 75.72 02050104 SHILLADELPHIA M 1407 FREE W 14027 40.849 75.72 02050104 SHILLADELPHIA M 1407 FREE W 14027 40.849 75.72 02050104 SHILLADELPHIA M 1407 FREE W 14027 40.849 75.72 02050104 SHILLADELPHIA M 1407 FREE W 14027 40.849 75.72 02050104 SHILLADELPHIA M 1407 FREE W 14027 40.849 75.72 02050104 SHILLADELPHIA M 1407 FREE W 14027 40.849 75.72 02050104 SHILLADELPHIA M 1407 FREE W 14027 40.849 7	NEO	ENGLA		33013	71 748 01070003		
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## BALTIMORE 227 ALMOND ## BALTIMORE 229 WHITNEY POINT ## BALTIMORE 229 WHITNEY POINT ## BALTIMORE 310 CURWENSVIUSH (KETTLE CREEK) ## 42033 41.342 75.965 02050104 ## BALTIMORE 310 CURWENSVIUSH (BENCHARD) PA 42037 41.340 75.965 02050104 ## BALTIMORE 310 CURWENSVIUWH PA 42037 41.048 77.604 02050204 415 ## BALTIMORE 320 RAVENSVIUWH PA 42037 41.048 77.604 02050204 415 ## BALTIMORE 320 SITLLWATER PA 42037 41.048 77.604 02050204 415 ## BALTIMORE 320 SITLLWATER PA 42061 40.296 79.000 02050100 ## BALTIMORE 399 BLOOMINGTON WV 54057 39.356 79.000 02070002 05010 ## BALTIMORE 233 B EVERETT JORDAN (NEW HOPE) NC 37037 35.554 79.069 03030002 ## LAMINGTON 372 USHN H NERR VA 51117 36.598 78.31 03010102 462 05011 + ## SAVANNAH 74 CLARK HILL SC 45181 33.661 82.199 0306103 287 + (CONTINUED) ## SAVANNAH 74 CLARK HILL SC 45181 33.661 82.199 03060103 287 +		3 PHILADELPHIA	316 PRCMPTON	42127	75.327 02040103		LACKAWAXEN/W BR
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## BALTIMORE 310 CURWEYSVILLE PA 42033 40.953 76.5020303 4 8 8 8 8 17 100 8 20 8 20 8 20 8 20 8 20 8 20 8 20	NA.			000	70.0000 000.01	•	
## BALTIMORE 312 F J SAVERS (BLANCHARD) PA 42027 41.048 77.604 02050204 415 + 4 BALTIMORE 320 RAYSTOWN PA 42027 41.048 77.604 02050204 415 + 4 BALTIMORE 320 RAYSTOWN PA 42061 40.296 78.188 02050303 + 4 BALTIMORE 320 STILLMATER WY 44067 39.36 75.486 02050107	NAD			, ,	20200000 00000	•	
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## BALTIMORE 329 STILLWATER PA 42069 41.696 75.486 02050000000000000000000000000000000000	QV		NACTOVAC.	7000			1111 47 A / DAYO + O
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4 BALTIMORE 401 SAVAGE MO 24023 39.516 79.133 02070002 05010 SAVAGE 6 WILMINGTON 233 B EVERETT JORDAN (NEW HOPE) NC 37037 35.654 79.069 03030002 CAPE FEAR 6 WILMINGTON 372 JOHN H NERR VA 5.117 36.554 79.069 03030102 462 06011 + GAPKIN 6 WILMINGTON 372 JOHN H NERR VA 5.1089 36.781 80.027 03010103 06012 + SMITH 7 CHARLESTON 232 W KERR SCOTT NC 37193 36.134 81.224 03040101 06014 + YADKIN 8 SAVANNAH 74 CLÄRK HILL SC 45181 33.661 82.199 03060103 287 + SAVANNAH (CONTINUED)	NAD	4 BALTIMORE		54057	79 000 000 000		344
6 WILMINGTON 233 B EVERETT JORDAN (NEW HOPE) NC 37037 35.654 79.069 0303002 CAPE FEAR 6 WILMINGTON 372 JOHN H VERR VA 51117 36.598 78.301 03010102 462 06011 + RONONE 6 WILMINGTON 375 PHILPOTT		4 BALTIMORE		240.0	100001000001		CAVACE
6 WILMINGTON 233 B EVERETT JORDAN (NEW HODE) NC 37037 35.654 79.069 03030002 CAPE FEAR 6 WILMINGTON 372 JOHN H KRR VA 51089 36.781 80.027 03010102 462 06011 + ROANOKE 6 WILMINGTON 375 PHILPOTT 7 CHARLESTON 232 W KERR SCOTT NC 3193 36.134 81.224 03040101 06014 + YADKIN 8 SAVANKAH 74 CLARK HILL SC 45181 33.661 82.199 03060103 287 + SAVANNAH			ì		***************************************	2-22	
6 WILMINGTON 372 JOHN H NERR VA 5117 36.598 78.301 03010102 462 06011 + ROANOKE 6 WILMINGTON 375 PHILEDIT VA 51089 36.781 60.027 03010103 06012 + SMITH 7 CHARLESTON 232 W KERR SCOTT NC 37193 36.134 81.224 03040101 06014 + YADKIN 8 SAVANNAH 74 CLARK HILL SC 45181 33.661 82.199 03060103 287 + SAVANNAH	SAD		1	37037			CAPE FEAR
6 WILMINGTON 375 PHILPOIT VA 51089 36.781 80.027 03010103 06012 + SMITH 7 CHARLESTON 232 W KERR SCOTT NC 37193 36.134 81.224 03040101 06014 + YADKIN 8 SAVANNAH 74 CLAGK HILL SC 45181 33.661 82.199 03060103 287 + SAVANNAH (Continued)				51117	03010102	+	ROANOKE
7 CHARLESTON 232 W KERR SCOTT NC 37193 36.134 81.224 03040101 06014 + YADKIN 8 SAVANNAH 74 CLARK HILL SC 45181 33.661 82.199 03060103 287 + SAVANNAH (Continued)	SAD	- 11		51089	03010103	+	SMITH
8 SAVANKAH 74 CLARK HILL SC 45181 33.661 82.199 03060103 287 + SAVANNAH (Continued)	SAD	1		37193		1	YADKIN
9 SAVANNAH 74 CLARK HILL SC 45181 33.661 82.199 03060103 287 + 5AVANNAH (Continued)				. 1			
(61, 10)	SAD	8 SAVANNAH	CLARK HILL	81	82.199 03060103 287		SAVANNAH
			+400	י בייה י			

Table 8 (Continued)

5		The second secon				
3 SAD	B SAVANNAH	330 HARTWELL	GA 13007 34.356 82.822	03060103 432	+	SAVANNAH
3 SAD	& JACKSONVÍLLE	66 DCKLAWAHA(RDDMAN)	FL 12107 29.508 81.804	81.804 03080102	+	OCKLAWAHA
3 SAD	10 MOBILE	1 CLAIBORNE	AL 1099 31.533 87.516	03150204	*	ALABAMA
		2 COFFEEVILLE [JACKSON]	At 1023 31.750 88.116	03160201		MOBILE
3 SAD	10 MOSILE	3 HOLT	33.252 87.450	03160112 226		BLACK WARRIOR
3 SAD	10 MGBILE	4 JONES BLUFF	AL 1085 32.350 86.800	03150201	+	ALABAMA
	to MOBILE	t	1091 32.520 87.879	03160201		MOBILE
3 SAD	10 MOBILE	7 WARRIOR	1065 32.779 87.844			BLACK WARRIOR
3 SAD		-	1131 32.116		+	ALABAMA
SAD	to MOSILE	69 ALLATOONA	34.163	03150104 261	+	ETOWAH
SAD	10 MOBILE		13099 31.283 85.116			CHATTAMOOCHEE
SAD	10 MOBILE	71 SEMINOLE (WOODRUFF)	13253 30.708 84.865	03130004 999	+	APALACHICOLA
SAD	10 MCBILE	72 WALTER F GEORGE (EUFAULA)	13061 31.600		*	CHATTAHODCHEE
SAD	MO B I		32.918			CHATTAHODCHEE
SAD	NO B		13123 34.604	03150102		COOSAWATTEE
SAD			13139 34.158 84.072	03130001 293	+	CHATTAHOOCHEE
3 SAD			28075 32 475 88.796		•	CHICHASAWHAY
			1063 32.816	03160106		TOWRIGBER
SAD		BANKHEAD	1125 33.449	03160112 226		BLACK WARRIOR
		ı	0 11 11 11 11 11 11 11 11 11 11 11 11 11	•		
5 NCD	11 BUFFALO	228 MT MORRIS	NY 36051 42.733 77.911	04130002 0	04018	GENESSEE
	14 ROCK ISLAND	98 CORALVILLE	IA 19103 41,724 91,527	07080208 2	25019 +	IOWA
5 NCD			19125 41.369 92.979	503	+	DES MOINES
			1			
מיט איני		_	27035 46.411	07010106 102	+	פטרו
200	7	- 7	27023 45.000	07020002	•	
	2		27155 45.630		+	BOIS DE SIGUX
	15 ST PAUL		27057 47.206 94.308	105	+	LEECH
		182 ORWELL	96.177	09020103 3	30019	OTTER TAIL
	ST		N:N 27021 46.669 94.112	07010105		PINE
		184 FOKEGAMA	MN 27061 47.166 93.555	07010101	٠	MISSISSIM
	ST		46.788 93.319	07010103	+	TAMARACK
S NCD	15 ST PAUL	186 WENTBIGOSHISH	47.428 94.049	07010101	•	MISSISSIPPI
	ST	187 PINE RIVER	27021 46.669 94.112	07010105	+	DINE.
S NCD	IS		38099 48 399 97.766		30017	PARK/ S BR
	ļ		35003 47 033 OB 083	200	3000	NN
	, ,	U	10000 17:000 00:000 10000 77 000	,		0 1 10 110
	-		1	000000		CAU CALLE
4 ORD	16 PITTSBURG	243 BERLIN	OH 39133 41,045 81,002	05030103 395 2	21038 +	MAHONING
4 080	16 PITTSBURG	252 MICHAEL J KIRWAN	29099 41,156 81,079		+	MAHONING/W BR
4 DR0	4	MOSOUITO	39155 41, 299 80, 758	05030102 406	•	
4 ORD	ī	ŧ	79.368	05010007		CONEMAUGH
	G		42005 40 714 79 508	05010006	21024	CROOKED
000			400			101010
					4	AK AV NILING L

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(Sheet 2 of 7)

Table 8 (Continued)

ORD	16 PITTSBURG	315	MAHONING CREEK	PA 42005	5 40.921	79.278	05010006		21023	_	MAHONING
ORO	16 PITTSBURG	317	SHENANGD RIVER		5 41.264		05030102	426		+	SHENANGO
ORO	16 PITTSBURG	318	TIONESTA		42053 41.473	ł			21021	+	TIONESTA
080	16 PITTSBURG	319	YOUGHIOGHENY RIVER	PA 42051	1 39.798	79.368	05020006		21026	+	YOUGHIOGHENY
080	16 PITTSBURG	322			9 41.697		05010004	_		_	WOODCOCK
080	1.6 PITTSBURG	328	ALLEGHENY (KINZUA)	PA 42083	3 41.841	1	79.003 05010001	147		+	ALLEGHENY
ORD	16 PITTSBURG	393	TYGART	WV 54091	1 39.313		05020001	470	21025	+	TYGART VALLEY
ORO	17 HUNTINGTON	123	DEWEY	KY 21071	1 37.737	82.730	05070203			+	JOHNS / LEVISA FK
ORO ORO	17 HUNTINGTON	124	FISHTRAP	KY 21195		82.416	05070202	•	19058	+	BIG SANDY/LEVISA
0.0	17 HUNTINGTON		GRAYSON	KY 21043	3 38.252	82.985	2.985 05090104	_	19060	+	LITTLE SANDY
ORD	17 HUNTINGTON		GREENUP L/D	KY 2106	21069 38.647	82.861	05090103			+	OHIO
ORD	17 HUNTINGTON	239	PAINT CREEK		1 39.251		05060003			_	PAINT
080	17 HUNTINGTON	241	ATWOOD		9 40.526	81.285	05040001	393	21027	+	INDIAN
ORO	17 HUNTINGTON	242	BEACH CITY		1 40.634		05040001	394	21060		
ORD	17 HUNTINGTON	245	CHARLES MILL	CH 39005	5 40.740	82.363		397	21003	+	MOHICAN/BLACK FK
ORD	17 HUNTINGTON	246	CLENDENING	DH 39067	7 40.269	81.278	05040001	_		+	STILLWIR/BRUSHY
ORO	17 HUNTINGTON	247	DEER CREEK	0H 39097		83.216	02060002	398		+	SCIOTO/DEER
080	17 HUNTINGTON	248	DELAWARE	OH 39041		83.069	05060001	399	19046	+	OLETANGY
ORO	17 HUNTINGTON	249	DILLON	OH 39119		82.082	05040006	400	21061	+	LICKING
ORO	17 HUNTINGTON	251	LEESVILLE			81.194	05040001	 -		+	CONNONT TON/T
ORC	17 HUNTINGTON	255	PIEDMONT			81.215	05040001	_		+	STILLWATER
ORO	17 HUNTINGTON	256	PLEASANT HILL			82.325	05040002	408	21001	+	MOHICAN/CLEAR FK
ORD	17 HUNTINGTON	257	SENECAVILLE			81.434			21002		MILLS
080	17 MUNTINGTON	258	TAPPAM			81.227		412		+	LITTLE STILLWTR
ORD	17 HUNTINGTON	259	BURR DAK (TOM JENKINS)	OH 39127	7 39.541	82.057	05030204		21063		SUNDAY
0,00	17 HUNTINGTON	261	WILLS CREEK			89					WILLS
080	17 HUNTINGTON	373	CORN & FLANNAGAN			82.348		463		+	DNOOd
ORD	17 HUNTINGTON	374	NORTH FORK OF POUND	VA 51195	5 37.124	82.631	- 1			آ ا	POUND/N FK
080	17 HUNTINGTON	389	BLUESTONE	WV 54089 3	37.640	80.887		467	19056	+	
CRO	17 HUNTINGTON	390	EAST LYNN	WV 54099	9 38.145	82.382	05090102			+	TWELVEPOLE/E FK
ORD	17 HUNTINGTON	391	SUMMERSVILLE	WV 54067		80.891	- 1	469		+	GAULEY
ORC	17 HUNTINGTON	392	SUTTON	WV 54007		80.694			19062	+	ELK
GRD	17 HUNTINGTON	394	WINFIELD			81.833		~		+	
ORD	17 HUNTINGTON	406	MOHICANVILLE		5 40.724	82,152	05040005				MOHICAN/LAKE FK
ORD	17 HUNTINGTON	416	ALUM CREEK	DH 39041	1 40.185	82.964 (05060001	_ !		-	ALUM
ORD	18 LOUISVILLE	8	CAGLES MILL	IN 18133	3 39.487	86.917			17023	+	MILL
ORD	18 LOUISVILLE	5	HUNTINGTON	IN 18069	9 40.845	85.468	3 05120101				WABASH
ORO	18 LOUISVILLE	92	MISSISSINEMA	•	3 40.716	85.956		3 334		+	MISSISSINEMA
080	18 LOUISVILLE	93	MONROE	1N 18105	5 39.007	•	05120208			+	SALT
ORD	18 LOUISVILLE	94	SALAMONIE	-	9 40.807	1		_		+	SALAMONIE
040	18 LOUISVILLE	95	C M HARDEN (MANSFIELD)	1N 18121	1 39.717		05120108	_		+	BIG RACOON
ORD	18 LOUISVILLE	97	BROOKVILLE	IN 18047		85.003		~		-	WHITEWATER
ORD	18 LOUISVILLE	120	BARREN RIVER	1		86.124	4	350		+	BARREN
ORD	18 LOUISVILLE	121	BUCKHORN			83.470				+	KENTUCKY
280	_	126	GREEN RIVER			85.339				+	GREEN

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(Sheet 3 of 7)

Table 8 (Continued)

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MARDAPELLO AND 29223 36:928 90.284 08020202 551 16013 + ST FRANCIS DE CRAY AR 5019 34 214 93.113 08040102 485 + CADDO CADDO ORCESON (NARROWS) AR 5019 34 572 90.124 08030204 359 15026 + CADDO CADDO ARKABULLA AR 5019 34 572 90.124 08030204 359 15026 + CADDO CADDO ARKABULLA AR 5019 34 572 90.124 08030204 359 15026 + CADDO CADDO ARKABULLA AR 5019 34 57 90.124 08030204 359 15031 + VADBUSHA CADDO ARKABULLA AR 5019 34 57 90.124 08030204 359 15031 + VADBUSHA ARTOBUSHA SARDIS MS 28167 34 399 89.770 08030204 359 15031 + VADBUSHA ARTOBUSHA SARDIS MS 28107 34 399 89.770 11140206 489 + CAPRESS BAYOU ARTICLAHATCHIE ARKARANA (WRIGHT PATMAN) TX 48315 32.751 94.499 11140305 648 49010 + BIG CYPRESS BELUE MOUNTAIN AR 5149 35 101 93.601 1110206 637 + WHITE ARTICLA MANAS BULL SHOALS AR 5149 35 101 93.60 1110206 637 + WHITE ARTICLA MANAS BULL SHOALS AR 5149 35 101 93.60 1110206 637 + WHITE N FK BULL SHOALS AR 5149 35 247 93.71 1010003 649 44006 + FOURCHE LA FAVI BULL SHOALS AR 5149 34.951 93.160 1110206 649 44006 + FOURCHE LA FAVI BULL SHOALS AR 5
MEN) MS 281 34.572 93.197 08040101 MS 281 61 34.158 89.903 08030204 MS 281 61 34.158 89.903 08030204 MS 281 67 34.399 89.770 08030203 MS 281 07 34.399 89.760 08030201 LA 22031 32.319 93.670 11140206 PATMAN) TX 48307 32.703 93.920 11140305 AR 5047 36.420 93.847 1100204 AR 5089 36.101 93.650 1110206 AR 5149 35.101 93.650 1110206 AR 5149 36.475 91.731 1110206 AR 5149 34.951 93.173 1110206 AR 5149 34.951 93.173 1110206 AR 5047 36.472 93.131 110206 AR 5047 36.472 93.131 110206 AR 5047 36.472 93.131 110206
PINES(FERELLS) TX 48315 32.75; 94.499 11140305 648 IIGHT PATMAN) TX 48307 33.304 94.160 11140302 669 IIGHT PATMAN) TX 48307 33.704 94.160 11140302 669 IIA 20107 32.703 93.920 11140305 637 IIA 508 96.357 92.572 11010001 480 AR 5149 35.101 93.650 11110204 482 AR 5149 35.517 91.93 11110206 490 AR 5149 34.951 93.160 11110206 490 AR 5047 35.474 93.173 11110206 490 AR 5047 35.475 93.11110206 491 AR 5047 35.475 93.11110206 491
AR 5149 35-101 93.650 11110204 482 AR 5189 35-101 93.650 11110204 482 AR 5089 36.367 92.572 11010003 480 AR 5153 35.547 91.937 1101001 487 AR 5149 34.951 93.160 11110206 490 AR 5065 36.249 92.237 11010206 491 AR 5047 35.424 93.237 11010006 491 AR 5047 35.424 93.812 11110206 490 AR 5047 35-424 93.812 11110206 491 AR 5047 35-424 93.812 11110206 491 AR 5047 35-424 93.812 11110206 491
\$149 34.951 93.160 1110206 490 \$055 36.249 92.237 1100005 491 \$047 35.472 93.812 11110206 491 29179 37.133 90.775 11010007 547 29209 36.595 93.31 11010001 480

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(Sheet 4 of 7)

Table 8 (Continued)

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OMS /		101	MARION	KS 20115 38.372	97.081	11070202 517		+	COTTONWOOD
OMS /		112	TORONTO	20205 37.	95.933 1	1070101 523	45040	+	VERDIGRIS
OBS /		264	BRCKEN BOW	40089	94.683 1	140108		+	CITTLE/MIN FK
SWD		265	CANTON	4001	98.601 1	1100301	46013	+	CANADIAN/N
O.M.S	25 TULSA	266	CHOUTEAU	40145	95.500 1			_	VERDIGRIS
OMS		267	EUFAULA	40061	95.362		584 45041	+	CANADIAN/S
OMS -		268		40145 35.	95.228 1			+	NEOSHO
SWD		569		40045 36.	99.571	1100203 586	•	+	#O1F
QAS .		270	GREAT SALT PLAINS	40003	96.135	11060004	46002	+	ARKANSAS/SALT FI
CAS /		271	HEYBURN	OK 40037 35.947	96.298	1110101	45039	+	POLECAT
CMS /	25 TULSA	272	HULAH	OK 40113 36.928	95.068	11070106	45035		CANEY
SWD		273	KEYSTONE	OK 40037 36.151	96.251	1060006 591	45057	+	ARKANSAS
OMS.		274	NEET GRAHAM	OK 40145 36.050	95.600 1	1070105			VERDIGRIS
CMS.		275	COLOGAH	OK 40131 36.421	95.678 1	1070103 592		+	VERDIGRIS
OMS.		276	PINE CREEK	:_	95.079	1140107		+	ITTLE
OMS.		.277	ROBERT S KERR	40135	94.850 1	1110104		+	ARKANSAS
OMS.		278	TENKILLER FERRY	40021	95.049 1	1110103 593		•	TITINDIS
SWD		279	M D MAYO	40079 35	94.600				RKANSAS
OMS.	25 TULSA	280	MERRERS FALLS	OK 40101 35 650	95,250	1110102		•	ARKANSAS
SMO		281	0 min 1 min	4000	04 719 1	1110105 505	49012	. 4	DOTEAU
OMS.		282	CLAYTON	40127	95.400				ACKFORK
CAS		283	XAX	40071	96.921 1	106001			ARKANSAA
SWD	25 TULSA	284	COPAN	40147	95.966	1070106			LITTLE CANEY
CMS		285	HUGO	DX 40023 34.011	95.380	1140105]	KIAMICHI
SWD		286	OPTIMA	40139	101.000 1	1100102		. •	CANADIAN/N
CMS.	25 TULSA	287	WAURIKA		98.100 1	1130208		_	BEAVER
SWD	25 tulsA	348	TEXOMA (DENNISON)	TX 48181 33.818	96.572 1	1130210 663	50012	•	RED
SMD		357	PAT MAYSE		95.543 1	1140101		+	SANDERS
GMS	25 TULSA	370	KEND	48023	99.150	11130206 646	50023	_	WICHITA
SWD	25 TULSA	402	GILLHAM	AR 5061 34.200	94.200				COSSATOT
7 SWD	26 FORT WORTH	344		TX 48139 32.250	96.646	12030:09		,	WAXAHACHIE
O#S	FORT	345	BELTON (BELL)	48027	97.474	12070201 633	53047	•	FON
ORS	FORT	346	PENBADOK	TX 48439 32.650	97.448				TRINITY/CLEAR FK
OMS	FORT WORT	347	CANCON	48091	98.198	100201		. +	
OMS	FORT	349	GRAPEVINE	48439	97.056	1		+	DENTON
SWO	26 FORT WORTH	351	HORDS CREEK	48083	99.560	12090108	53049	+	HORDS
SWO	FORT WORT	354	LAVON	48085	96.482	12030106 649		+	TRINITY/E FK
CAS	FORT	355	LEWISTILLE (GARZA LITTLE ELM)		96.964		51032	+	
SWD	FORT WORT	356		48349	96.689	2030108		+	RICHLAND
SWD	FORT WORT	358		48093	98.485	12070201		+	LEON
SWD	3	359	1	48405	94.105	12020005 657			ANGELINA
CMS	FORT WORT	360	O C FISHER (48451	100.481			+	CONCHO
SWD	FORT WORT	361	AVILLE	48477	96.525			+	YEGUA
SWD	FORT WORT	362	STILLHOUSE HOLLOW (LAPASAS)	43027 31.	97.532			+	LAMPASAS
OMS.	FORT WORT	363	WACO	48309	97.197		53031	+	BOSOUE
CMS	FORT WORT	364	AUNTILI	48217	97.371	2060202 668		4	BRAZOS
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(Sheet 5 of 7)

Table 8 (Continued)

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230 000 000 000 000 000 000 000 000 000	www >>>>>>>>	CAEEK N COUNTY COUNTY COUNTY COUNTY CAREK AREK AREK AREK AREK AREK AREK AREK	35,239 85047 85047 19007 10003 20008 2008 2008 2008 2008 3008 3008	244-1 244-1				+ CHAMA - CANDIAN/S PUGGATOIRE - CHARITON - SMOXY HILL - REUBLICAN MARAIS DE CYGNE - 10 - MILE CK - 10
000 000 000 000 000 000 000 000 000 00	www.pspspspspspspspspspspspspspspspspsps	CAEEK N COUNTY COUNTY SEEK SEEK SEEK SEEK SEEK SEEK SEEK SEE	35047 19093 20033 20033 20033 20033 30033 31109	201 20 20 20 20 20 20 20				+ CANDIAN/S PURGATOIRE - CHARITON - REPUBLICAN MARAIS DE CYGNE - DELAMARE - DELAMARE - 10-MILE CK - BIG BLUE - SALINE - FORME DE TERRE
20000000000000000000000000000000000000		CAEEK CAEEK TOOUNTY COUNTY CREEK CREEK CREEK TEM TEM TEM TEM TEM TEM TEM	190071 190071 200083 200087 200167 200167 30083 30083 31109	201 202 203				+ CHARITON + CHARITON + SMONY HILL + REPUBLICAN MARAIS DE CYGNE + DELAWARE + 10-MILE CK + BIG BLUE + SALINE + FORME DE TERRE + FORME DE TERRE + REPUBLICAN
20000000000000000000000000000000000000		CALES CAEEK TOOUNTY COUNTY CREEK CREEK TEM CAEEK CREEK TEM CAEEK CREEK TEM COACH	20033 20033 20039 20039 20039 20039 20039 30033 30033 30033 30033 30033	428 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4				+ CHARITON + SMONY HILL + REPUBLICAN MARAIS DE CYGNE + DELAWARE + 10-MILE CK + BIG BULE + SALINE + POMME DE TERRE + POMME DE TERRE + REPUBLICAN
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		A CAEEK OF TERRE OF TERRE OOUNTY CREEK TEM CAEEK TEM CAEEK CAEEK CAEEK CAEEK CAEEK CAEEK CAEEK CAEEK CAECH CAECH COACH	2000 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	6066 6077 9077				+ SWONY HILL + REPUBLICAN MARAIS DE CYGNE + DELAWARE + HOOMILE CK + SALINE + FORME DE TERRE + SALINE + FORME DE TERRE + SALINE + REPUBLICAN
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		R CAEEK OE TERRE TON	220060 220060 220060 220060 230060 230060 230060 230060 230060 230060 230060 230060 230060 230060 230060	2002 - 2009 - 20				+ REUBLICAN MARAIS DE CYGNE + DELAMARE + 110-MILE CK + BIG BLUE + SALINE + REPUBLICAN
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		A CASEK TOWNTY COUNTY COUNTY COUNTY CASEK TARIN COACH	200139 200167 200167 200167 200167 30008 311099 11099	550 950 950 950 950 950 950 950 950 950				MARAIS DE CYGNE + DELAMARE + 110-MILE CK + BIG BLUE + SALINE + POMME DE TERRE + SAC + REPUBLICAN
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		E CAEEK DE TERRE TOOUNTY COUNTY CREEK CREEK TEM CAACH	20008 20018 20018 20018 2008 2008 2008 2	26.20 96.00				+ DELAWARE + 110-MILE CK + BIG BLUE + SALINE + FOWME DE TERRE + SAC + REPUBLICAN
29 KANADA CO		بي	20139 201499 2290465 2290465 2390465 31093 311099	6647 95 9061 99 9061 99 9069 99 9069 99 9069 99 907 106 907 106 909 96 909 96				+ 110-MILE CK + BIG BLUE + SALINE + POMME DE TERRE + SAC + SAC + REPUBLICAN
29 9 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		يو.	200149 2900467 300049 300043 300043 31109	2554 96 9956 98 9901 93 9009 99 9007 104 655 104 650 96 609 96				+ BIG BLUE + SALINE + POMME DE TERRE + SAC + REPUBLICAN
200 KAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA		u.	20167 29089 30089 30083 31109	9966 98 9901 93 9695 93 9695 99 9655 104 655 106 659 96 6620 96				+ SALINE + POMME DE TERRE + SAC + REPUBLICAN
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			29085 29089 31083 30083 31109	695 93 695 93 069 99 069 99 655 104 655 106 648 96 620 96				+ POMME DE TERRE + SAC + REPUBLICAN
29			29039 30033 31109 31109	695 33 069 99 069 99 655 104 007 106 591 96 648 96 620 96				+ SAC + REPUBLICAN
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30 CE		CONESTGGA		j	٠,	0200203		SALT CK/T
330	214	NIME	31109		•			SALT CK/T
33	215	DANKE	31109		_		260	MIDDLE CK
	216	HOLMES PARK	31109	-1				SALT CK/T
30	2:7	BRANCHED DAK	31109				554	DAK CK
30	234	BOAMAN-HALEY	38011			_		+ GRAND/N FK
8	235	SAKAKAKEA (GARRISON)	38055	-			575	+ MISSOURI
	331	G BEND)	46065		-	0140101		+ MISSOURI
30	332	COLD BROOK	46033	-	-	10120109		FALL/T
30	334	FRANCIS CASE (FT RANDALL)	46053	- (98.554	0140101		+ MISSOURI
MAD 30 CYAHA	335	LEWIS AND CLARKE (GAVINS PT)	46135	42.819 37	7.482 1	10170101		+ MISSOURI
30	336	DAHE	46119	44.352 100		10130105		+ MISSOURI
MRD 30 DWAHA	415	CHATFIELD	CO B035 39.	39.557_10	105.057	10190002		PLATTE CANYON
3 WALLA WALL	A 77		10 16035 46.	516	116.299 1	17050308 77	779	+ CLEARWATER/N FK
4 - 43 16	7.0	I CK Y DEAK		10	-		,	
31 WALLA		RIBIE	61091	7 🕶	1	17040205		E1110W
NPD 31 WALLA WALLA	e	ICE HARBOR		_		17060110		+ SNAKE
					i [
NPD 32 SEATTLE	80	ALBENI FALLS (PEND ORIELLE)	16017	-			,	+ PEND OREILLE
32 SE	204	KOCKANUSA(LIBBY)	30053	Ξ			795	KOOTENAI
32.5	377	RUFUS KOUDS (CHIEF JOSEPH)	WA 53047 47.	47.986.11	119.625	1/02005		+ COLUMBIA

(Sheet 6 of 7)

(Continued)

(Sheet 7 of 7)

Table 8 (Concluded)

9 NPD 32 SEATLE 9 NPD 32 SEATLE 9 NPD 32 SEATLE 9 NPD 33 PORTLAND 9 NPD 34 SACREMENTO 10 SPD 34 SACREMENTO 10 S		WA 53027 47.384 123.605 17100104 WA 53033 47.277 121.784 17110013 OR 41027 45.643 121.939 17070105 OR 41039 44.172 122.327 17090004 OR 41039 44.172 122.327 17090006 OR 41039 44.722 122.248 77090005 OR 41039 43.786 122.248 77090001 OR 41039 44.120 123.299 17090001 OR 41039 44.120 123.299 17090001 OR 41039 44.120 123.299 17090001	171100104 17090004 17090005 17090002 17090002 17090004	WYNDCHEE
2		53033 47.277 121.784 41039 46.172 12.3327 41039 48.172 12.3327 41039 48.177 122.240 41039 48.722 122.248 41039 43.916 122.248 41039 43.946 122.954 41039 44.120 123.299 41043 44.4120 123.299		GREEN
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2		41027 45 643 121 939 41039 43 716 123 048 41027 45 709 120 723 41039 43 722 122 248 41039 43 916 122 916 41039 44 120 123 299 41043 44 4120 123 299		+ BLUE
X X X X X X X X X X X X X X X X X X X	1 1 1 1 1	41039 43.716 123.048 41039 44.727 122.240 41047 44.722 122.248 41039 43.916 122.816 41039 43.786 122.816 41039 44.120 123.295 41043 44.416 123.299		COLUMBIA
2	1 1 1	4 (0.39 44 127 122.248 4 (0.57 45.709 120.723 4 (0.39 43.916 122.816 4 (0.39 43.916 122.816 4 (0.39 43.914 122.755 4 (0.39 44.120 123.299 4 (0.43 44.416 123.299 4 (0.43 44.416 123.299	7090004	+
2	1 1 1 1	41027 45, 709 120, 723 41037 44, 722 122, 248 41039 43, 916 122, 916 41039 43, 124 122, 755 41039 44, 120 123, 299 41043 44, 412 123, 299 41043 44, 412 123, 299		+ MCKENZIE/S
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2	1 1 1	41039 43.916 122.816 41039 43.786 122.954 41039 43.944 122.755 41039 44.120 123.299 41043 44.416 122.673	1090003	+ SANTIAM/N
2	1 1 1	41039 43.786 122.954 41039 43.944 122.755 41039 44.150 123.299 41043 44.416 122.673	7090001	+ WILLAMETTE/MDL
2	1 1 1	41039 43.944 122.755 41039 44.120 123.299 41043 44.416 122.673	7090002 74017	+
2	1	41039 44.120 123.299 41043 44.416 122.673 41043 44.45 122.673	1000001	+ FACL
2	1 1	41043 44.416 122.673	7090003	+ LONG TOM
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 1	41043 44 452 122 544	17090006	+ SANTIAM/MDL
2			7090006	+ SANTIAM/MIDDLE
2		OR 41039 43.708 122.423 1	7090001 830	+ WILLAMETTE/MDL
8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		41021 45.722 120.203	17070101	COLUMBIA
2		OR 41039 43.913 122.750 1	17090001	+ WILLAMETTE/MOL
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	304 LUSI CREEK	22.550	17100307	ROGUE/T
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SPD 34 SP		-		+
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SPD 34 SPD 34 SPD 34 SPD 34 SPD 34	43 NEW BULLARDS BAR	CA 6091 39.409 121.143 1	8020016 72005	5 YUBA/N
SPD 34 SPD 34 SPD 34 SPD 34		_	8040009	MOKELUMNE
SPD 34 SPD 34 SPD 34	47 CHERRY VALLEY	6109 38.000 119.900	18040005	CHERRY
SPD 34	48 NEW DON PEDRO	CA 6109 37.702 120.421 1	8040005 744 71008	3 TUDLUMNE
SP6 34	51 MCCLURE (NEW EXCHEQUER)	6043 37.583 120.269 1	8042004 71009	MERCED
	54 MILLERTON (FRIANT)	ľ	18040001	SAN JOAQUIN
SPD 35 SAN FRANCI	29 MENDOCINO	CA 6045 39.198 123.181 1	3010110 752	+ RUSSIAN
10 SPD 35 SAN FRANCISCO	39 SANTA MARGARITA (SALINAS)	CA 6079 35.337 120.502 18060005 756	3060005 756 71004	4 + SALINAS
10 SPD 36 LOS ANGELES	9 ALAMO	AZ 4015 34.232 113.600 15030204	5030204	SILLIAMS
	27 HANSEN	1	8070004 70018	

Table 9

Listing of the LISTS, DPL File

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O J	1 NEW EYGLAND	141	BIRCH HILL	MA			72.170	01080202	2			
NEG .	94	143	CONANT SROCK TITLL	خد	25915	42.050	72.300		14			ĺ
NED	<	145	HUSGES VILLAGE	√ ≯		42.150	72.970		=			
SEO	•	146	FAIGHTVILLE			42.350			90			
NED	*	671	WEST HILL		25027	42.150	71.500		13			
NED	*	153		CT		41.850	73.150		5			
NEC.	3	154		CT	9008	41,900	7		5			
NED	*	157		1.53		41.950	73.150		7			
N.E.O.	3	160		5	9006	41.930	73.150	01080207				
NED	* NEW ENGLAND	161	NOT SECURE			41.700	73.100		52			
282	٠.	163	BLACKSTIER	I		43.350	71.750	1	3			ĺ
9	1 NEW ENGLAND	175	UNION VILLAGE	<u>.</u>	50017	43.800	72.250	01080103	<u>س</u>			
OAN	S PHILADEDELLA	327	DYBERRY (UADWIN)	4	42127	41.650	75.250	02040103	2			
CAN	4 BALTINGRE	230	ARKPORT	2	36101	42.400	77.700	02050104	4			
LAC	A BALTINGRE	231	SOUTH PL-MOUTH	ž	36025	42,350	75.100	02050101	-			
VAD	4 BALTIMORE	323	INDIAN ROCK	44		39.850	76.900		90			
OAZ	4 84 1: MORE	324	HAMMOND			41.850	77.250		4			
VAD	4 BALTINORE	325	110CA	¥ d	42117	41.800	77.050		4	ļ		
OV	4 BALTIMORE	326	COWANESQUE		42113	41.950	77.300		4			
(AD	S NORFOLK	376	GATHRIGHT	A >	51017	38.050	79.900	0208020				
007	Ö	83	FARWDALE	1 1 1	17	0.0	0.0		7	24059	j 1	
522	Ĭ,	63	THOMAS U O'BRIEN TVD	:::: 		0.0	0.0					1
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000	Ē,	82	PEORIA L/	1.1		40.800	89.550		-			
0 0	13 CHICAGO 13 CHICAGO	86 89	LAGRANCE L/D FONDULAC	11	71011	0.00	90.500	07130003		24055		
200	14 ROCK ISLAND	101	SAYLGRVILLE	1.7	19153	41.750	93.700	700 07100004	4			11
S C C	15 ST PAUL	400	LA FAPGE	3	55123	43.650	90.550	90.550 0707006	9			1
0.0 0.8 0.0	16 PITTSBURG 16 PITTSBURG	397	STONE MALL JACKSON	> 4 3 d	54041	38.900	80.500	05020002	12 12 425			1
200	2 2	136	ł			38.150	82.800		4			ĺ
2 6			PAINISVIELE			37.850	82.850		2			1
3 6		4 (BOLIVAN			40.700	81.550					
200	17 HUNTINGTON	253	MOHAN.K	5 3	30065	40.550	82.200	0504000	- 9			
0.50	z	395	BURNSVILLE			38.850	80.600		2			1
ORD	17 HUNTINGTON	396	R D BAILEY			37.600	81.700		<u>-</u>			
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(Continued)

(Sheet 1 of 3)

Table 9 (Continued)

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			ATO ALVER	21237			
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4 000	: 3			1	ŀ		
	ñ١		ARDI CALLAN	06017		83.300 03130101	
מאַר פּ	Ž		LAUREL MIVER	KY 21125 36.950		84.250 05130101	
ה ה	ž	339	CORDELL HULL	IN 47087 36.300	1	85.850 05130106	
6 LMVD	ST	20.0	MENANT DADX	C 05 75000 UN	Į.	07140102	
		- 1	PLADENCE CANNON	20 20 20 20 E	1	64 756 57445637	
				THE CALL STREET			
	Z	139	BAYOU BODCAU	LA 22015 32,800		93.500 11140205	49006
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6 LMVD	38		BLACK BAYOU	22017		_	530
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OMS A	w	15 1	DIERKS	1		94.050 11140109	
	Z,	115	81G #1LL	KS 20099 37.350		11070103	
	ß		EL DOMADO	KS 20015 37.8		11030017	
DMS /			DEQUEEN		1	94.300 11140109	
	;				1		
7 SWD	26 FORT WORTH	365	NORTH FORK (SAN GABRIEL)	TX 48491 30.750		97.900 12070205	
-	9		LANE PORT	TX 48491 30.6	1	12070205	
					1		
	AN CALVESTON	- 1	ADDICAS	1X 48201 29.830	- 1	12040104	
7	27 GALVESTON		WALLISVILLE	TX 48071 29.8		94.800 12030203	
0.80	Z/ GALVESION	308	BAKKEK	1X 48201 29.750		12040104	
- 1	28 At Euduspour	320	GAITCTEO	NW 25049 35 4	35 400 106 700	1 13020201	
	9		NONAC FURU			•	
7 0 10	28 AL BUOILE COME		TEC DIVERS	CAC COC STOCK NA	20 100 200	13020202	n
	ā		000 44 40 000	70	200 100 000	٠,٠	
	1 i	_		2000	200.400.00	- •	
			A AMOCOCON LANCON	7	20.001.00	300000	***
- 1	1		1	200	24.650 104.000	200000	POORC /
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			COME BRANCH	- 1	000.28 00	10260203	
, S	Š	238	PIPESTEM	ND 38093 47, 250	11	99.000 10160002	
¥	Ş		COTTONWOOD SPRINGS		-	10120109	
8 MRD	30 DMAHA			8059	50 105.300		
1	1						

(Continued)

(Sheet 2 of 3)

Table 9 (Concluded)

CIVISION	DISTRICT	RES NAME	ST STOTY LAT LONG HYD UNIT NES SCS L&J MAJOR TRIB
000	3) WALLA WALLA 3) WALLA WALLA	381 LOWER GRANITE 382 LOWER MONUMENTAL	7.350
	WALLA		53071 46.050 118.200 17070102
	MALLA	387 WALLULA (MCNARY)	53005 46 000 119.000
	31 WALLA WALLA	388 PRIEST RAPIDS	WA 53025 46.700 119.950 17020016
0d N 6	33 PORTLAND	303 ELK CREEK	DR 41029 42.750 122.700 17100307
045.01	1	ZO NORTH FORK (CLEMENTINE)	CA 6061 38,950 121.000 18020021
10 590	SAC	42 OROVILLE	35,550 121,450
10 SPD	SACE		37,950 119.900
70 SPD	SAC	AG NEW RELONES	38,000 120.500
10 520	SAC	49 BURNS	
10 SPD	SAS	50 BEAR	120.220 1
DAS OF	SAC		CA 6043 37,300 120.150 18040003
10 5P0	SAC		37.200 119.950 1
10 SPD	SACR	55 BIG DRY CREEK	36,900 119.700 1
045 OF	SAC		37,100 119,900
10 5PD		205 PINE CANYON	37,450
10 SPD		206 MATTHEWS CANYON	NV 32017 37,450 114.200 15010013
10 SPD		ST DRY CREEK	######################################
10 SPO		S8 DEL VALLE	37.600 121.800
10 SPO	36 LOS ANGELES	10 PAINTED ROCK	AZ 4013 33,000 112,800 15070101
10 SPD	2	25 BREA	33.900
10 300	ros		CA 6071 34.300 117.300 18090208
10 SPD	105		6065 33.950 117,650 1
10 SPD	ros	35 SEPULVEDA	6037 34,150 118,500 18070004
0 S P D	ros	38 WHITTIER NARROWS	6937 34.050 118.050
10 SPD	501		6071 34,150 117,700 1
10 SPD	L0 S	60 SANTA FE	6037 34.120 117.950 1
10 590	ros	61 LOPEZ	6037 34.270 118.500
10 SPD	ros	62 CARBON CANYON	33.900 117.800 1
10 SPD	2	63 FULLI TON	6059 33.870 117.850
10 590			33.700 112.450
045 01	3	ATO WHITCOW KANCH	AZ 4021 33.300 111.300 15050100

PART VI: WATS - WATERSHED CHARACTERISTICS

26. WATS, the third major file group, contains information on project watersheds. It consists of the following three elements:

WATS.maps - Watershed Maps

WATS.POLYS - Watershed Polygon Coordinates

WATS.DAREAS - Drainage Area Characteristics

This information supplements the location descriptors contained in the LISTS files. Each element is described below.

- 27. A set of watershed maps has been compiled from the USGS hydrologic unit maps ⁸, EPA National Eutrophication Survey Working Papers ⁹, and a report on CE projects in the New England Division ¹¹. The maps are labeled with descriptive data contained in the LISTS.CPL file and stored in a loose-leaf notebook. Hydrologic unit maps, used most extensively, are on a scale of 1:500,000. An example is given in Figure 3. In some cases, projects have been built after map publication and only the watersheds are shown.
- 28. WATS.POLYS contains the latitude/longitude coordinates of polygons which contain projects and their watersheds. These coordinates have been used to identify water quality monitoring stations in STORET (see Part IX). Each record contains up to five coordinate pairs and is referenced by district and project codes. Coordinates have been estimated from watershed maps contained in EPA National Eutrophication Survey reports⁹. The 108 projects which were sampled under that program are represented in WATS.POLYS file.
- 29. WATS.DAREAS contains additional descriptive information on project watersheds in the format given in Table 10. Each record is referenced by district, project, and data source codes. Table 11 lists the elements of the file along with corresponding data sources. Some discrepancies among multiple data sources for the same project and characteristic remain in the file, particularly in drainage areas and mean flows. These could be resolved through verification of the file at the district level. An inventory of the file contents by division is given in Table 12. Inventories by project and district are given in Appendix A.

Figure 3
Sample Watershed Map

RES: 194 POMME DE TERRE

DISTRICT: 29 KANSAS CITY MO
DIVISION: 8 MISSOURI RIVER
STATE: MO HYDROLOGIC UNIT: 10290107

LATITUDE: 37.901 LONGITUDE: 93.318

MAJOR TRIBUTARY: POMME DE TERRE
SCALE:]----10 MILES-----

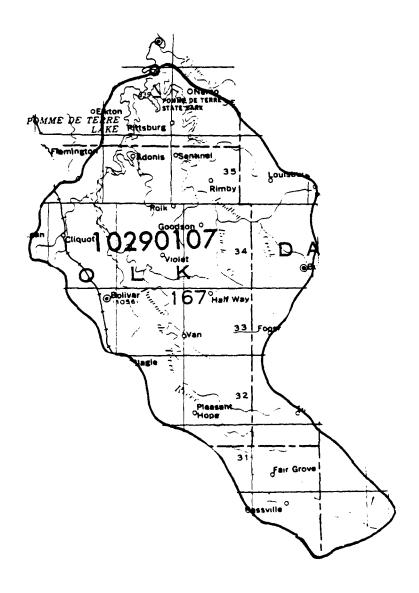


Table 10

Record Format of the WATS.DAREAS File

DECLARE 1 DAREA_RECORD		/* WATS. DAREA FILE STRUCTURE (LENGIH-89) .	
		******************	,
2 018	,66,01d	/* DISTRICT NUMBER	•
2 RES	, 666, 31d	/* RESERVOIR NUMBER	•
2 STATE	PIC'BZZ'	/* FIPS STATE CODE	•
2 YFIRST	PIC, 2222	/* DATE NORMAL OPERATION BEGAN	•
2 ANET	PIC, ZZZZZZN. 91	/* UNIMPOUNDED DRIANAGE AREA (MIZ)	
2 ATOT	PIC'22222V.9'	/* TOTAL DRAINAGE AREA (MIZ)	•
2 DI SCH	PIC'(11) ZV.	/* MEAN DISCHARGE (ACRE-FT/YR)	•
2 YDISCH	PIC'222'	/* PO OF RECORD FOR DISCHARGE (YRS)	•
2 INFLOW	PIC'(11) ZV.	/* TOTAL INFLOW (ACRE-FT/YEAR)	•
2 YINFLOW	PIC'222'	/* PD OF RECORD FOR INFLOW (YRS)	•
2 PAEC	PIC'222V.99'	/* BASIN PRECIPITATION (IN)	•
2 YPREC	PIC, ZZZ,	/* PD OF RECORD FOR PRECIP. (YRS)	•
2 TYPE	PIC,898,	/+ STATION TYPE CODE	٠
2 GSSTATION	CHAR(8)	/ STATION CODE (USGS)	•
2 SOUDCE	D1C 891	/* DATA SOURCE CODE	•

Table 11

Sources of Data for the WATS.DAREAS File by Component

•			SOURCES	C E S		
Component	Leidy & S	EPA/ NES4	District	Sed.	Design Memos	USGS 13
Year Impounded	×			×		
Direct Drainage Area			×	×	×	
Total Drainage Area	×	×	×	×	×	×
Mean Annual Discharge	×	×				×
Mean Annual Total Inflow				×		
Mean Annual Precipitation				×		
USGS Station Code						×

Table 12

Inventory of Data in the WATS.DAREAS File by CE Division

	nsgs	Disch	17	13	20	9	14	13	9	19	24	18	258		USGS	Disch	17	13	20	9	14	13	29	19	24	18	257
	nses	E/C	21	13	19	63	14	13	29	70	20	17	259		usgs	E/C	21	13	19	63	14	13	29	20	20	17	259
	Mean	Prec	0	7	m	56	4	თ	19	0	7	m	29		Mean	Prec	0	٦	m	5 6	4	6	19	0	7	ю	67
	Mean	Inflow	0	н	٣	56	ស	თ	24	m	7	7	80	Division	Mean	Inflow	0	~	m	26	ហ	6	24	м	7	7	80
	Mean	Disch	18	22	40	134	29	38	143	52	42	58	546	Entry by	Mean	Disch	18	14	22	62	15	14	61	22	23	18	269
Totals	1	DAREA	62	36	72	224	49	62	230	77	73	53	938	One or More	Total	DAREA	22	14	23	64	15	15	62	22	26	19	282
Division	Net	DAREA	14	13	17	34	7	11	46	21	15	01	188	With	Net	DAREA	14	12	16	34	7	10	45	21	15	10	184
	Year	Impd	23	14	19	84	20	23	82	23	24	27	339	of Projects	Year	Impd	22	14	16	63	15	14	29	20	22	19	264
	Numbr	Entries	75	48	78	232	51	64	251	93	85	56	1033	Number of	Numbr	Entries	22	15	24	64	15	15	63	31	27	19	295
	Total	Proj	22	15	24	64	16	15	99	31	27	19	562		Total	Proj	22	15	24	64	16	15	99	31	27	19	299
		Division	1 NED	2 NAD	3 SAD	4 ORD	5 NCD	6 LMVD	7 SWD	8 MRD	9 NPD	10 SPD	Totals			Division	1 NED	2 NAD	3 SAD	4 ORD	5 NCD	6 LMVD	7 SWD	8 MRD	OAN 6	10 SPD	Totals

PART VII: RESER - RESERVOIR CHARACTERISTICS

30. The fourth major file grouping, RESER, contains detailed information on reservoir characteristics. It consists of the following four elements:

RESER.MORPHO - Project Morphometry
RESER.desc - Verbal Project Descriptions
RESER.broch - CE Recreational Brochures
RESER.COM - Comments

Each of these elements is described below.

- 31. The fluctuating pool levels characteristic of many reservoirs necessitates the compilation of morphometric data which are referenced to pool elevations. Volume and surface area variations with elevation are required for estimation of volume-averaged water quality conditions, given measurements made at specific depths. Seasonal variations in reservoir volume and discharge induce variations in mean depth and hydraulic residence time which may, in turn, influence the response of trophic state indicators to nutrient loading. Thus, detailed morphometric information is an essential component of the data base for eutrophication modelling and for other general uses.
- 32. The record format and contents of the RESER.MORPHO file are described in Table 13. Each record is referenced by district, project, elevation, and data source code. In addition to area, volume, length, width, and shoreline length data, the file contains a series of pool and outlet codes, as listed in Table 4. These codes provide supplementary descriptive information on pool allocations for various uses, ranges of operating levels, and locations and types of principal outlets.
- 33. The RESER.MORPHO file was initially based upon data extracted from project design memoranda. The other principal data sources include: (1) a report by Leidy and Jenkins⁵; (2) USGS water resources data reports, by state and year¹³; (3) sedimentation survey sheets¹²; and (4) district and division offices. Information compiled from these sources has been coded and sorted by project and elevation. Initial screening was done to identify and correct, where possible, any

Table 13

The state of the s

Record Format of the RESER.MORPHO File

DECLARE 1	DECLARE 1 MORPHO_RECORD		/*************************************	
			/*************************************	_
.7	S 10 2	,66,3Id	/* DISTRICT NUMBER	_
.4	RES	,666,3Id	/* RESERVOIR NUMBER	
	2 ELEV	PIC 22222V.ZZ'	/* ELEVATION (FT.MSL)	_
•4	2 AREA	P1C'2222222'	/* SURFACE AREA (ACRES)	_
•4	101 2	PIC'(10)Z'	/+ VOLUME (ACRE-FEET)	J
	PCODE	PIC'2Z'	/* POOL CODE	
.4	2 LENGTH	CHAR(4)	/+ POOL LENGTH (#1)	_
•1	2 WIDTH	CHAR(3)	/* POOL WIDTH (MI)	
	2 SHORE	CHAR(4)	/* SHORELINE LENGTH (MI)	_
.7	2 OCODE	P1C'ZZ'	/* OUTLET CODE	_
• •	2 SCODE	PIC'88882':	/* DATA SOURCE CODE	

obvious errors, such as decreasing area or volume with increasing elevation within a given project. There were sufficient inconsistencies among the various data sources for many projects to warrant independent verification of the file. Accordingly, the file was distributed to the districts through WES and additions and corrections were made based upon district responses. Final editing was done to eliminate most of the redundancies in the file due to multiple data sources for the same project and elevation. A current data inventory by division is given in Table 14. Inventories by district and project are given in Appendix A.

34. RESER.desc consists of a collection of verbal project descriptions copied from USGS water resources data reports published annually by state 13. The descriptions are referenced by district and project codes and assembled in a loose-leaf notebook. These descriptions summarize hydrologic monitoring activities by the USGS, along with important project characteristics and purposes. The file currently contains entries for 260 out of 299 projects in the central project list.

The state of the s

- 35. RESER.broch is a collection of brochures published by CE district and division offices as guides to recreation in specific projects. These usually contain detailed project maps which are useful for locating monitoring stations. Project purposes and characteristics are also summarized. Each folder is referenced by district and project number and stored in a hanging file. Currently, the file contains information from eight districts: Pittsburg, Huntington, Louisville, Nashville, Vicksburg, Tulsa, Forth Worth, and Sacramento.
- 36. The RESER.COM file contains miscellaneous descriptive information on various projects. This file has been designed to hold data or comments which do not conform to other file formats. Each record is 80 characters long and is referenced by district and project codes. A listing of the current version of this file is given Table 15.

Table 14

The state of the s

Inventory of Morphometric Data by CE Division

	z	Shore	22	6	22	28	14	23	65	23	20	80	264		Z	Shore	22	7	21	20	12	13	57	19	18	80	227
	Z	Width	22	4	49	56	7	73	37	11	23	14	266		z	Width	22	4	7	26	9	12	36	80	16	σ	146
	Z	Length	22	21	70	99	11	58	38	30	32	15	363		z	Length	22	14	18	41	7	12	37	26	25	10	212
	Outlt	Codes	21	21	23	75	Ŋ	25	95	41	31	21	358	y Division	Outlt	Codes	21	14	15	55	S	14	28	29	20	15	246
	Pool	Codes	48	73	80	332	52	93	352	118	102	74	1324	e Entry b	Pool	Codes	22	15	21	62	14	14	62	31	26	18	285
Totals	z	Vol	220	145	319	621	98	217	167	445	232	226	3290	e or Mor	z	Vol	22	15	24	61	15	15	99	31	25	19	293
Division	z	Area	220	110	305	543	98	215	902	427	184	143	2939	With On	z	Area	22	15	24	9	15	15	65	31	27	14	288
	Max	Elev	1017	1621	1108	1711	1303	626	6362	5640	5119	5853	6362	Projects	Max	Elev	22	15	24	62	15	15	99	31	27	19	296
,	Min	Elev	195	200	0	280	577	130	20	750	24	104	0	Number of	Min	Elev	22	15	23	62	15	15	99	31	27	19	295
	z	Elev	221	168	336	743	126	249	934	205		263	3828	Nu	z	Elev	22	15	24	62	15	15	99	31	27	19	296
	Total	Proj	22	15	24	64	16	15	99	31	27	19	299		Total	Proj	22	15	24	64	16	15	99	31	27	19	299
		Division	1 NED	2 NAD	3 SAD	4 ORD	5 NCD	6 LAVD	7 SWD	8 MRD	OAN 6	10 SPD	Totals			Division	1 NED	2 NAD	3 SAD	4 ORD	5 NCD	6 LMVD	7 SWD	8 MRD	OAN 6	10 SPD	Totals

Table 15 Listing of the RESER.COM File

0112/	Mad River dam now under control of State of Connecticut
01165	Connected to Hopkinton (01167) at high water
01167	Connected to Everett (01165) at high water
07232	Project transferred to Wilmington District (06)
26363	Sediment survey refers to Old Waco
28408	No permanent pool
30214	2 Separate lakes (W. twin/E. twin) below elevation 1342
30333	Project never reached full pool
33298	Re-regulating dam for Green Peter (33299)
33305	Re-regulating dam for Detroit (33293)
34048	Sediment survey refers to Old Don Pedro
34051	Sediment survey refers to Old Exchequer

PART VIII: HYDRO - HYDROLOGY FILES

37. The fifth file group, HYDRO, contains detailed hydrologic data, organized in the following files:

HYDRO.KEY - Station Key
HYDRO.DAILY - Daily Values
HYDRO.MONTHLY - Monthly Summaries
HYDRO.YEARLY - Yearly Summaries
HYDRO.SUM - Grand Summaries

This information has been compiled to provide bases for nutrient budget calculations, estimating pool hydraulic residence times (as influenced by reservoir elevation and discharge), and depth-averaging of water quality observations (as influenced by reservoir morphometry and pool level). Because of the stringent water quality sampling requirements for estimation of nutrient budgets, streamflow data required for such calculations have been compiled only for those projects and years sampled by the EPA National Eutrophication Survey. Attempts have been made, however, to compile reservoir discharge and elevation/contents data from all projects for 1965 to date using three data sources: USGS/WATSTORE 14, the EPA National Eutrophication Survey 15, and sedimentation survey sheets 12. The HYDRO.KEY file describes 1307 stations from all three data sources in the format depicted in Table 16.

- 38. The first data source includes USGS stations monitoring reservoir elevation/contents or streamflow at or below reservoir discharge points. These stations have been identified using the Master Water Data Index of the USGS National Water Data Exchange 16 and USGS water resources data reports by state and year 13. Daily values have been retrieved through STORET for the period from 1965 to the most recent available as of February, 1980. Only those stations with daily values entered in WATSTORE are included.
- 39. The EPA National Eutrophication Survey⁴, which sampled 108 CE projects, assembled a hydrologic data base compatible with its water quality sampling network for use in nutrient budget computations. It includes streamflow estimates for upstream and downstream tributaries.

For each station, flows are estimated on three time scales: daily (only for the days on which water quality samples were taken), monthly (only for the months in which water quality samples were taken), and normalized monthly (normal flow for each month). This information has been retrieved from a tape provided by the EPA Corvallis laboratory 15. Monthly and normalized monthly flows have been stored in the HYDRO.MONTHLY file. Because they only refer to water quality sampling dates, daily flows have been stored along with the water quality data in the WQ.OBS file.

- 40. The third source of hydrologic data, sedimentation survey sheets 12, has provided annual estimates of reservoir total inflow, minimum elevation, and maximum elevation, typically for 10 water years in most of the 84 projects for which sedimentation survey sheets have been located. This information has been stored in the HYDRO.YEARLY file.
- 41. The formats of the DAILY, MONTHLY, YEARLY, and SUM hydrology files are listed in Tables 17 through 20, respectively. HYDRO.DAILY, which contains data from USGS/WATSTORE stations only, is in the WATSTORE format. It is linked to the project list through the sequence number stored in the HYDRO.KEY file. The other hydrology files contain direct references to districts and projects. In retrieving daily values, all parameter codes recorded at each station were included. Thus, the daily file, and the monthly, yearly, and grand summaries generated from it, contain some water quality information monitored by the USGS on a daily basis (e.g., temperature, conductivity, suspended solids). Parameter codes and coverage are indicated in Table 5.
- 42. Monthly variations in reservoir discharge and elevation are needed in order to provide bases for calculating pool hydraulic residence times and volume-averaged water quality conditions on a seasonal basis. Table 21 presents an inventory of reservoir discharge, elevation, and contents data monitored at USGS stations and contained in the HYDRO.MONTHLY file. Table 21 is organized by division. Corresponding inventories by reservoir and district are contained in Appendix A. Since the monthly hydrologic summary has been generated from the daily values file, these inventories also reflect daily data holdings.

43. The files contain reservoir discharge data for 245 out of the 299 projects in the central project list. Elevation and contents data are included for 44 and 108 projects, respectively. Regional deficiencies in elevation or contents data are particularly evident for the New England, North Atlantic, South Atlantic, Ohio River, and Missouri River Divisions. These deficiencies need to be corrected, probably using district-level information sources, in order to provide a basis for model evaluations under Phase II of this project.

Table 16

Record Format of the HYDRO.KEY File

			· · · ·
DECLARE 1 HY DROKEY REC.		7+ HYDRO.KEY FILE STRUCTURE (LENGTH=100)	•
		**********	\
2 DIS	,66,3 Id	/* DISTRICT NUMBER	•
2 RES	PIC 999	7 * RESERVOIR NUMBER	•
2 TYPE	PIC.89,	/ STATION TYPE CODE	•
2 SOURCE	PIC, 898,	/* DATA SOURCE CODE	•
2 STATION	CHAR(8)	/ STATION CODE	•
2 LATITUDE	•		•
3 DEGREES	.668, JId	/* DEGREES LATITUDE	•
3 MINUTES	PIC.991	/+ MINUTES LATITUDE	•
3 SECONDS	,66,31d	/* SECONDS LATITUDE	•
2 LONGITUDE			•
3 DEGREES	PIC.B999	/* DEGREES LONGITUDE	•
3 MINUTES	,66,3Id	/* MINUTES LONGITUDE	•
3 SECONDS	PIC, 88,	/* SECONDS LONGITUDE	•
Z DAREA	PIC'-(9) ZV.99'	7 DRAINAGE AREA (MI2)	•
2 SEQ	PIC'2222'	/ SEQUENCE IN DAILY FILE (USGS ST.)	•
		/* DR WQ STATION CODE (EPA/NES ST.)	•
2 STATE	PIC.8998	/* FIPS STATE CODE	•
2 LOCATION	CHAR(39)	/* LOCATION DESCRIPTION	•
2 EDIT	CHAR(7)	/* EDIT INDICATOR	•

Table 17

Record Format of the HYDRO.DAILY File

656) */ ET */ EL */	/******	*	•	•	7.	•	•	7	•	•	7	•	•	1	•	`•	*	•		1	•	•	1	`	•	1	•	``	*
/* HYDRO. DAILY FILE STRUCTURE (LENGTH=1656) », /* HYDRO BAILY FILE STRUCTURE (LENGTH=1656) », /* NOTE RECORD FORMAT IDENTICAL TO STORET », /* REIRIEVAL FORMAT: DOCUMENTED IN PART FL »,	/* OF THE STORET USER'S MANUAL	/* UNUSED	/* STATE CODE	/* AGENCY CODE	/* STATION CODE	/* CROSS-SECTION LOCATOR	/* STATION DEPTH	/* PARAMETER CODE	/+ WATER YEAR	/* DAILY VALUE STATISTIC CODE	/* MISSING VALUE INDICATOR	/* DAILY VALUE MATRIX (MONTH X DAY)	/* UNUSED	/* USGS DISTRICT	/+ COUNTY CODE	/* STATION LOCATION DESCRIPTION	/* DRAINAGE AREA (MI2)	/* CONTRIBUTING DRAINAGE AREA	/* WELL DEPTH	/* DATUM DE GAUGE	/* HYDROLOGIC UNIT CODE	/* RETRIEVAL SEQUENCE NUMBER	/* FIRST MONTH IN DATA MATRIX	/* USGS TYPE CODE (LK OR SW)	/* LATITUDE (DEG/MIN/SEC)	/* LONGITUDE (DEG/MIN/SEC)	/* WITHIN QUADRAT SEQUENCE NUMBER	/* GEOLOGIC UNIT CODE	/e UNUSED
		CHAR(2)	CHAR(2)	CHAR(5)	CHA8(15)	FLOAT(6)	FLOAT(6)	FIXED BIN(31)	FIXED BIN(15)	FIXED BIN(15)	ELOAT(6)	FLOAT(6)	CHAR(3)	CHAR(2)	CHAR(3)	CHAR(42)	FLOAT(6)	FLOAT(6)	FLOAT(6)	EIXED DEC(Z,2)	FIXED 81N(31)	FIXED BIN(15)	FIXED BIN(15)	CHAR(2)	CHAR(6)	CHAR(7)	CHAR(2)	CHAR(B)	CHAR(19)
DECLARE 1 HYDRODAY_RECORD		2 UNUSED1	2 STATE	2 AGENCY	2 STATION	2 XSEC	2 DEPTH	2 PABAM	2 HYEAR	2 DSTATC	2 NOVAL	2 DATA(12,31)	2 UNUSED2	2 DIST	2 COUNTY	2 100	2 DAREA	2 CDAREA	2 WELLD	2 DATUM	2 HY DUNIT	2 SEQ	2 FMONTH	2 TYPE	2 LAT	2 LONG	2 CSEQ	2 GEDUNIT	2 UNUSED3

Table 18

Record Format of the HYDRO.MONTHLY File

/**	>	`	•	`	•	``	•	`	•	•	•	•	•	•	`•	*	`	``	•
	/* HYDRO.MONIHLY FILE STRUCTURE (LENGTH=50) */	- 经存货的 计计算计算 化二氯甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	/* DISTRICT NUMBER	/* RESERVOIR NUMBER	/ DATA SOURCE CODE	/* STATION CODE	/* PARAM. CODE (USGS)	/* DAILY VALUE STATISTIC CODE	/* (1=MAX, 2=MIN, 3=MEAN, 4=INSTANTANEOUS)	/* CALENDAR YEAR	/* WATER YEAR	/* MONTH	/* NUMBER OF DAYS	/* DATUM OF GAUGE	/* MONTHLY MINIMUM	/* MONTHLY MEAN	/* MONTHLY MAXIMUM	/* MONTH-END VALUE	/* BLANK
			. 66.0 ld	,666, O I d	.6, OId	CHAR(8)	,66666,01d	,6, 01d		,66,2Id	,66,3 Id	PIC'99'	FIXED BIN(15)	FLOAT(6)	FLOAT(6)	FL0AT(6)	FLOAT(6)	FLOAT(6)	CHAR(2)
:	DECLARE 1 HYDROMO_REC		2 01 5	2 RES	2 SOURCE	2 STATION	2 PARAM	2 DSTATC		2 CYEAR	2 WYEAR	2 MONTH	Z O	2 DATUM	2 BIN	2 MEAN	2 MAX	2 END	2 UNUSED

Table 19

Record Format of the HYDRO.YEARLY File

\:	•	!	•	•	•	•	•	•	•	•	•	:	ŀ	•	:	•
/***********	/* HYDRO.YEARLY FILE STRUCTURE (LENGTH=50) */		/* DISTRICT NUMBER	/* RESERVOIR NUMBER	/* DATA SOURCE CODE	/* STATION CODE	/* PARAMETER CODE (USGS)	/* DAILY VALUE STATISTIC CODE	/* WATER YEAR	/* NUMBER OF OBSERVATIONS	/* DATUM OF GAUGE	/* ANNUAL MINIMUM	/* ANNUAL MEAN	/* ANNUAL MAXIMUM	/* YEAR-END VALUE	/* BLANK
			,66, JId	PIC 999	PIC.9.	CHAR(B)	.66668, Old	,6,01d	PIC, 883988	FIXED BIN(15)	FLOAT(6)	FLOAT(6)	FLOAT(6)	FLOAT(6)	FLOAT(6)	CHAR(2)
	DECLARE 1 HY ORDAN_REC		2 015	2 RES	2 SOURCE	2 STATION	2 PARAM	2 DSTATC	2 WYEAR	2 NO AYS	2 DATUM	2 MIN	2 MEAN	2 MAX	2 END	2 UNUSED

Table 20

Record Format of the HYDRO.SUM File

DECLARE 1 HYDROSUM REC		/* HYDRO. SUM FILE STRUCTURE (LENGTH#90	•
			/***
2 015	,66,01d	/* DISTRICT NUMBER	1
2 RES	PIC.999'	/* RESERVOIR NUMBER	•
2 SOURCE	,6,0 Id	/* DATA SOURCE CODE	•
2 STATION	CHAR(B)	/* STATION CODE	•
2 PARAM	,66666, OId	/* PARAMETER CODE (USGS)	•
2 DSTATC	,6,3Id	/* DAILY VALUE STATISTIC CODE	•
2 MSTATC	P1C'9'	/* MONTHLY VALUE STATISTIC CODE	•
		/* (1=MIN,2=MEAN,3=MAX,4=WONTH-END)	•
2 DATUM	PICV.9999ES9'	/* DATUM OF GAUGE	•
2 NDAYS	P1C'22222'	/+ TOTAL NUMBER OF DAYS	•
2 NMONTHS	PIC'22222'	/* TOTAL NUMBER OF MONTHS	•
2 DF IRST		/* FIRST DATE	*
3 YEAR	,66,01d	/* YEAR	•
A MONTH	,66,3Id	/* MONTH	•
2 DLAST		/* LAST DATE	•
3 YEAR	,66,3Id	/* YEAR	•
3 MONTH	,66,DId	HINOW +/	•
2 MEAN	PIC'-V. (5)9ES9'	/* MEAN VALUE	/•
2 STD_DEV	PIC'~V. (5)9ES9'	/* STANDARD DEVIATION	·
2 MINIMUM	PIC'-V.(5)9ES9'	/* MINIMUM VALUE	•
2 MAXIMUM	PIC'-V. (5)9ES9'	/* MAXIMUM VALUE	•

rable 21

Inventory of USGS Hydrologic Data by CE Division

-	TOTALS ***											
TOTAL!FL0			ELOW	ij	1 1 1	ELEVATION	10N			CONTENTS		i
S	MONTHS		MONTHS DFIRST	1	STNS	DLAST STNS MONTHS DF 18ST DLAST	DFIRST	DLAST	STNS	STNS MONTHS DFIRS		DLAS
17 2465	2465		6410	7901	0	0	0	0	0	0	0	- }
12 1920	1920		6410	7902	~	466	6410	1709	0	0	0	
	2298		6410	7902	4	423	6410	7709	0	0	•	
61 9062	9062		6410	7902	m	15	7509	7612	-	6	7504	
1	2368	!	6410	1901	~	169	6410	7709	6	406	6410	
	1700		6410	7902	0	0	0	0	9	1442	6410	
64 9174	9174		6410	1901	g	818	6410	1709	51	6089	6410	١
1	2786	1	6410	7901	5	926	6410	1709	4	208	6410	
	3348		2001	7902	13	724	6410	1109	16	1588	6510	
19 2524	2524		6410	7902	0	0	0	0	9	2394	6410	1709
262 37645			2001	7902	4	3605	6410	7709	109	13157	6410	1709

12 3 3 3 3 3 3 0 18 4 4 4 4 4 4 4 0 14 2 2 2 2 2 2 12 0 0 0 0 0 10 18 9 9 9 9 4 16 0 0 0 0 17 16 17 17 17 16
14 W G O O O V C O
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
6 6 6 6 6 7 17 17 17 17 17 17 17 17 17 17 17 17 1
9 9 9 9 17 17 17 17 0 0 0 0
0 0 0 0 0
0 0 0 0

*** NUMBER OF PROJECTS WITH ONE OR MORE ENTRY BY DIVISION***

PART IX: WQ - WATER QUALITY FILES

Introduction

44. The sixth group of files, WQ, contains water quality information for CE projects. It is organized as follows:

WO.KEY - Station Key

WQ.DESTAT - Detailed Station Descriptions

WQ.OBS - Observations

WQ.SUM - Data Summary by Station and Parameter

WO.maps - Station Maps

Three sources of water quality data have been used: (1) EPA's STORET system³; (2) the INFONET¹⁷ system used by the Ohio River Division of the Corps of Engineers; and (3) miscellaneous survey data for specific projects. The numbers of stations and observations obtained from each source are listed in Table 22. The use of these sources and resulting file structures and contents are described in the following sections.

STORET Data Acquisition and Processing

- 45. As in Table 22, STORET is the primary source of water quality information. The following sources have been used to identify station codes and to associate them with specific CE projects:
 - $\underline{\mathtt{a}}.$ the Master Water Data Index (MWDI) maintained by the National Water Data Exchange of the USGS $^{16}.$
 - b. the USGS Catalogue of Information on Water Data 18,19.
 - c. a list of stations included in the National Stream Quality Accounting Network (NASQAN) maintained by the USGS20.
 - <u>d</u>. the EPA National Eutrophication Survey Working Papers⁹.
 - e. direct station identification retrievals from STORET using a latitude/longitude search technique.

These sources are described below in the order used.

Table 22

Inventory of Water Quality Data by Source

Agency	Stations	Sample Dates	Observations
STORET - EPA/NES	1,637	16,119	181,173
STORET - USGS	655	35,326	592,853
STORET - CE	470	34,890	322,337
STORET - States	541	18,243	235,894
STORET - Other	357	8,078	154,266
INFONET - ORD	763	16,995	534,412
Miscellaneous	28	170	2,259
TOTAL	4,451	129,821	2,023,194

- 46. The Master Water Data Index (MWDI) documents water quality and quantity monitoring activities by various local, state, and federal agencies throughout the U.S. and contains information on site location, agency, dates, types of measurements, and data storage media. It does not contain measurements, but serves as a means of locating them. The MWDI registers all stations in the EPA STORET and USGS WATSTORE systems, in addition to information on monitoring activities by agencies which do not participate in other federal data banks. Thus, this file represents the most comprehensive one available for identifying monitoring sites and locating data. An initial list of monitoring stations associated with specific projects was derived by applying a latitude/longitude search technique to two large station files acquired on tape from the National Water Data Exchange. One contained all stations in the U.S. monitored by the Corps of Engineers, and the other contained all lake or reservoir stations monitored by any agency in the U.S. The station/project matching derived from this search was verified manually by checking station location descriptions and consulting maps, when needed.
- 47. The station listings derived from the MWDI did not contain stations monitored by non-CE agencies on tributary streams. The second and third sources listed above provided additional tributary stations operated primarily by the USGS. NASQAN²⁰ stations are particularly data-rich, having been operated by monthly frequencies since 1975 with a broad water quality parameter coverage. Forty-nine such stations have been located in or directly below the watersheds of projects in the central project list.
- 48. The STORET station list also includes all stations operated by the EPA National Eutrophication Survey in 108 CE projects. These stations include upstream tributaries, point sources, reservoir stations, and reservoir discharge stations. Nutrient loading calculations for these projects will provide a basis for the testing loading models in Phase II.

49. Finally, a series of station identification retrievals were done directly in STORET using a search technique based upon the latitude/longitude polygons contained in the WATS.POLYS file. Because of cost and time considerations, this technique was applied only to projects which were in one of two categories: (1) sampled by the EPA National Eutrophication Survey (since these will be the primary focus of Phase II modelling efforts); or (2) without water quality data derived from other station searching techniques. An extracting option available in STORET was also used to identify only stations for which total phosphorus measurements were available.

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- 50. Experience with these alternative station searching techniques indicates that no one method is completely satisfactory. Each relies upon the accuracy of the station characteristics and coordinates entered in the STORET file. Polygon search techniques often retrieve extraneous stations or miss relevant stations because of inaccurate latitude/longitude entries in the STORET station file. Similarly, retrievals which depend upon station types (e.g., "stream" vs. "lake") will miss stations which have been inaccurately classified. For example, many stations located in reservoir pools (based upon location descriptions and/or coordinates) were classified as "stream" stations in STORET and MWDI. The variety of methods employed to identify stations has helped to provide reasonable project coverage. All station/project matchings in the final STORET station list have been checked manually with reference to verbal station location descriptions and maps.
- 51. Preliminary STORET retrievals have been used to screen out sites with little or no relevant information and to verify station codes. Results have been obtained in the STORET Inventory format, which lists station descriptions and statistical summaries of water quality components monitored. Based upon these inventories, most stations with only one sampling date have been eliminated from the station list.
- 52. Following the screening procedure, a second series of STORET retrievals has been used to obtain copies of the data on tape for all observations made after 1964. The most comprehensive retrieval format

available from STORET has been used. This format, termed "MORE=5", provides complete station descriptions along with observations of up to 50 different water quality variables at each station.

- 53. A total of 100 variables have been selected for inclusion in the data base, as listed in Table 5. This necessitated two retrievals for each station. The selection of variables is based upon the objectives of the project and upon the results of the preliminary station inventories, which gave initial indications of data availability as a function of parameter code. The list contains some redundancies due to multiple ways of expressing various types of measurements (e.g., temperature as degrees F or degrees C or phosphorus as P or PO_4). Conversion routines have been used to eliminate these redundancies in tape processing.
- 54. In a final step, the STORET tapes have been processed to generate one file containing station descriptions (WQ.DESTAT) and another containing water quality observations (WQ.OBS). This involved several sort/merge steps to combine data from the individual STORET tapes in a sequenced form. Overall, STORET has provided 1,486,523 observations at 3,660 stations.

INFONET Data Acquisition and Processing

- 55. The INFONET¹⁷ system used by the Ohio River Division to manage water quality data has been accessed as a second source of information. Five tapes have been obtained from ORD, one containing station descriptions and the other four containing water quality observations for each of the four ORD districts (Pittsburgh, Huntington, Nashville, and Louisville). Because the organization and formats of the INFONET tapes are different from those obtained from STORET, a different set of programs has been written and employed to extract the data and process it into a form suitable for merging with output from the STORET tape processing.
- 56. A systematic procedure has been used in extracting data from the ORD tapes. In the first step, stations of interest have been selected

from the ORD station tape based upon ORD project identification codes and used to generate a station description file keyed to members of the central project list. A list of primary and secondary ORD station codes has been extracted from the station description tape. In the final step, the station code and parameter code files have been used to extract relevant observations from the ORD data tapes. This process has been repeated for each district and the resulting files have been merged. A total of 763 stations and 534,412 observations have been derived from this data source.

Miscellaneous Data Acquisition and Processing

- 57. Water quality data acquired from STORET and INFONET have been supplemented with miscellaneous data which has been manually coded and entered directly into the water quality files. This has been done to improve the regional coverage of the water quality data base. This relatively time-consuming approach has been limited to two sources:

 (1) survey data obtained from Baltimore District 1 for Almond, Whitney Point, and Alvin R. Bush Reservoirs; and (2) survey data obtained from the North Central Division 2 for Eau Galle Reservoir and Lac Qui Parle.
- 58. Water quality data and station descriptions from these sources have been coded at WES. Keypunching and verification have been done at MIT. The resulting files containing 28 stations and 2259 observations have been merged with data from STORET and INFONET in the formats described below.

WQ File Structures

59. The water quality data base consists of four files (WQ.KEY, WQ.DESTAT, WQ.OBS, WQ.SUM) and a set of station maps (WQ.maps). The formats of the four files are given in Tables 23 through 26, respectively. The structure and contents of each are discussed below.

Table 23

Record Format of the WQ.KEY File

DECLARE 1 WOKEY RECORD	a	/* WQ. KEY FILE STRUCTURE (LENGTH#120)	•

2 015	,66,JId	/* DISTRICT NUMBER	•
2 RES	,666,01d	/* RESERVOIR NUMBER	/•
2 STATION	,666,0 1d	/* STATION NUMBER	•
2 TYPE	PIC'898'	/* TYPE CODE	•
2 AGENCY	CHAR(B)	/* AGENCY CODE	•
2 UNUSED	CHAR(1)	/* BLANK	•
2 AGSTA	CHAR(15)	/* AGENCY STATION CODE	7
2 NOBS	P1C'222229'	/ NUMBER OF OBSERVATIONS	•
2 NDATES	PIC'222229'	/* NUMBER OF SAMPLE DATES	•
2 DFIRST	,6666668,01d	/* FIRST SAMPLE DATE	/* -
2 DLAST	1666666910Id	/* LAST SAMPLE DATE	•
2 ZMIN	PIC'2298'	/+ MINIMUM SAMPLE DEPTH (FT)	•
2 ZMAX	PIC, 2298	/* MAXIMUM SAMPLE DEPTH (FT)	/*
2 LATITUDE		/* LATITUDE	(*
3 DEGREES	PIC,888B22,	/* DEGREES LATITUDE	•
3 MINUTES	PIC'ZZ'	/* MINUTES LATITUDE	•
3 SECONDS	PIC'ZZVZB'	/* SECONDS LATITUDE	•
2 LONGITUDE		/* LONGITUDE	•
3 DEGREES	P1C'ZZZ'	/* DEGREES LONGITUDE	•
3 MINUTES	PIC'ZZ'	/* MINUTES LONGITUDE	?
3 SECONDS	PIC'ZZVZB'	/* SECONDS LONGITUDE	•
2 DESCRIPT	CHAR(30)	/* STATION LOCATION DESCRIPTION	•

Table 24

Record Format of the WQ.DESTAT File

		1 of 2	
DECLARE 1 DESTAT RECI		7 WQ. DESTAT RECORD TYPE 1 (LENGTH-85)	,
2 DIS	,66,31d	/* DISTRICT NUMBER	•
2 RES	Pic 999	/+ RESERVOIR NUMBER	\•
2 STATION	,666,0 Id	/* STATION NUMBER	•
2 SEQ	,66,31d	/* RECORD NUMBER (.01)	•
2 UNUSEDI	CH AR (1)	/* BLANK	•
2 AGENCY	CHAR(8)	/ AGENCY CODE	•
2 UNUSED2	CHAR(1)	/* BLANK	•
2 PR IMCODE	CHAR(15)	/* PRIMARY STATION CODE	/•
2 UNUSED3	CHAR(1)	/* BLANK	•
2 SECODE	CHAR(14)	/* SECONDARY STATION CODE	•
2 TYPE	P.I.C. 8698	/ STATION TYPE CODE	•
2 TDESC	CHAR(20)	/* TYPE DESCRIPTION	•
2 MAXDEPTH	PIC'BZZZB'	/* MAXIMUM DEPTH	:
2 UNIT	CHAR(1)	/* DEPTH UNITS	•
2 UNUSED4	CHAR(5)	/* BLANK	•
			/*****
	,66,01d	/* DISTRICT NUMBER	•
2 RES	, 666, DId	/* RESERVOIR NUMBER	/•
2 STATION	, 666 , O I d	/* STATION CODE	•
2 SEQ	,66,01d	/* RECORD NUMBER (=02)	•
2 UNUSED1	CHAR(1)	/ BLANK	•
	CHAR(2)	/* STATE CODE	·
_	CHAR(3)	/* COUNTY CODE	•
2 UNUSED2	CHAR(1)	/* BLANK	•
	CHAR(12)	/* STATE NAME	•
2 UNUSED3	CHAR(1)	/* BLANK	•
2 LATITUDE			•
	,66,0Id	/* DEGREES LATITUDE	•
3 MINUTES	,66,JId	/* MINUTES LATITUDE	•
3 SECONDS	PIC, 99V9B1	/* SECONDS LATITUDE	•
2 LONGITUDE			•
3 DEGREES	, 666, OId	/* DEGREES LONGITUDE	•
3 MINUTES	P1C 99	/ MINUTES LONGITUDE	•
3 SECONDS		/* SECUNDS LONGITUDE	
2 LOCATION	CHAR(32)	/* LOCATION DESCRIPTION	•
2 UNUSEDS	CHAR(6)	/* BLANK	/•

(Continued)

Table 24 (Concluded)

		7 10 7
DECLABE 1 DESTAT DECA		
		/* WQ. DESIAL RECORD TYPE 3 (LENGTH=85) +/
2 DIS	,66,014	/* DISTRICT NUMBER
2 RES	,666, JId	/* RESERVOIR NUMBER
2 STATION	,666,01d	/* STATION CODE
2 SEQ	,66,01d	/* RECORD NUMBER (*03)
2 UNUSED1	CHAR(1)	/* BLANK
2 BSNCODE	CHAR(6)	TODE ALMANDE
2 UNUSED2	CHAR(1)	XNA IR */
2 MAUBASIN	CHAR(24)	/+ MAJOR BASTN NAME
2 UNUSED3	CHAR(1)	ANA 18 */
2 MINBASIN	CHAR (42)	TAN ALCAR SONTA */

DECLARE 1 DESTAT_REC4		/* WQ. DESTAT RECORD TYPE 4 (LENGTH.85) +/
2 015	,66,3Id	/+++++++++++++++++++++++++++++++++++++
2 RES	,666,01d	/* RESERVOIR NIMBED
2 STATION	,666,DId	/* STATION CODE
2 SEQ	,66,01d	A DECORO NIMBER
2 UNUSED1	CHAR(1)	/+ BIANK
2 COMMENTS	CHAR(71)	/* DESCRIPTIVE TEXT
2 UNUSED2	CHAR(3)	/* BLANK

Table 25

Record Format of the WQ.OBS File

PIC'-V.9999ES99'

Table 26

Record Format of the WQ.SUM File

DECLARE 1 WOSUM_RECORD	CORD	/* WQ. SUM FILE STRUCTURE (LENGTH#80)	•
		·*************************************	/****
2 015	,66,31d	/* DISTRICT NUMBER	/•
2 RES	, 666, OId	/* RESERVOIR NUMBER	•
2 STATION	,666,J [d	/* STATION NUMBER	•
2 PARAM	, 6668, O I d	/* PARAMETER CODE	/•
2 NOBS	PIC'222229'	/* NUMBER OF OBSERVATIONS	•
2 NDATES	PIC'222229'	/* NUMBER OF SAMPLING DATES	•
2 DF IRST	PIC,8(6)9,	/+ FIRST SAMPLING DATE	>
2 DLAST	PIC,8(6)9,	/+ LAST SAMPLING DATE	•
2 ZMIN	PIC, 229	/+ MINIMUM SAMPLE DEPTH	•
2 ZMAX	P1C, 229	/* MAXIMUM SAMPLE DEPTH	•
2 MEAN	FLOAT(6)	/* MEAN VALUE	•
2 510	FLOAT(6)	/* STANDARD DEVIATION	•
2 XMIN	FLOAT(6)	/* MINIMUM VALUE	•
2 x25	FLOAT(6)	/* 25TH PERCENTILE	•
2 X50	FLOAT(6)	/* 50TH PERCENTILE (MEDIAN)	•
2 x75	FLOAT(6)	/* 75TH PERCENTILE	•
2 XMAX	FLOAT(6)	/* MAXIMUM VALUE	•
2 UNUSED	CHAR(8);	/* BLANK	•

60. WQ.KEY (Table 23) contains station source and location descriptors and accounting information on the amount of data in the WQ.OBS file, including the number of observations, number of sampling dates, date range, and depth range. Station descriptors have been derived from the WQ.DESTAT file, and accounting information from the WQ.OBS file. Each station has been given a unique, 8-digit identifying code. The first two digits represent CE district (Table 1) and the next three represent CE project (Table 8). The last three contain a code which is unique within each project. The following conventions have been used in assigning the last three digits of the station code:

001 - 100 STORET stations retrieved in March of 1979

101 - 200 STORET stations retrieved in March of 1980

301 - 400 EPA National Eutrophication Survey stations 501 - 600 INFONET stations (Ohio River Division)

801 - 900 stations entered manually

Station numbers have been assigned sequentially within each category and project, after sorting the stations by STORET agency and STORET station codes. The station coding scheme permits sorting and analysis by station, district, project, station, and/or data source. The WQ.KEY file contains 4451 records (one per station), sorted by the 8-digit station code.

- 61. WO.DESTAT contains detailed information on station location and data source. As shown in Table 24, it contains four record types. The fourth type is repetitive and contains up to 15 lines of detailed descriptive text on each station. WQ.DESTAT contains about 31,000 records, sorted by the first ten digits of each record (station code/ record sequence number).
- 62. WQ.OBS (Table 25) contains water quality observations. Each record is identified by station, date, time, depth, and parameter code. Standard STORET remark codes identify measurements which are less than or greater than indicated values or duplicate values. The last part of each record contains composite sample information. WQ.OBS, which contains 2,023,194 records, sorted by the first 24 columns (station/date/ time/depth/parameter), is stored on tape (sequential access only).

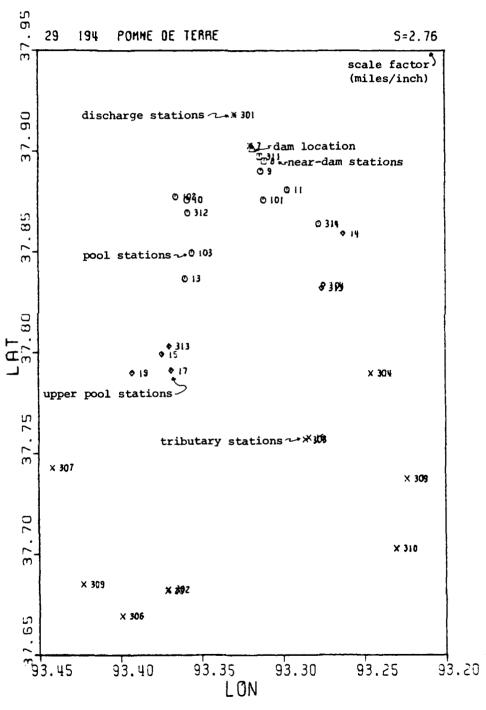
- 63. WQ.SUM (Table 26) contains a water quality data summary by station and parameter, derived from analysis of the WQ.OBS file. Statistics include date range, depth range, value range, mean, standard deviation, and value percentiles (25%, 50%, and 75%). Summary statistics are derived from the first 1000 observations for each station/parameter combination. Each record represents one station/parameter combination and the file contains about 75,000 records sorted by station and parameter codes.
- 64. To provide direct access to water quality station descriptions and data summaries, the contents of the WQ.DESTAT and WQ.SUM file have been produced in microfiche form. Frame format is illustrated in Table 27. The heading of each frame contains the district, project, station, and station type codes and names. Station descriptions are entered from the WQ.DESTAT file. The data summary by parameter follows. Frames are sorted by district, project, and station codes. A new fiche card is begun with each district. Card labels indicate the district and project described in the first frame. The last frame of each card contains an index which lists the project, station, and associated frame coordinates.
- 65. WQ.maps is a collection of station maps (one per project) which have been produced on a Calcomp line plotter using information in the WQ.KEY file. An example is given in Figure 4 which can be compared with the watershed map in Figure 3. Stations are located based upon latitude/longitude coordinates. Different plot symbols are used to identify station types. Only stations with more than 10 observations are plotted. Adjustments in horizontal and vertical scales are made for each map so that a linear distance scale is preserved and the map fits within an 8.5 × 11 inch area. A scale factor in miles per inch is derived from the LISTS.CPL file and plotted with a triangle. These maps are useful for identifying station locations and for refining the station type codes. They are subject, however, to errors in the station coordinates derived from STORET or INFONET. Based upon the maps and station

Table 27

Sample Microfiche Water Quality Data Summary

DISTRICT: 01							1					-					
11.00.00.00.00.00.00.00.00.00.00.00.00.0	STATION STATION STATION STATION STATION STATION	DESCRIPTION: DESCRIPTION: DESCRIPTION: DESCRIPTION: DESCRIPTION: DESCRIPTION:		BUFFUNVL 25027 MA 4205410 071545 010591 THAMES RIVER BASIN KLESS THAN L-GREATER THAN J- POPTIER BRODK, CHARLTON, MA. BRIDGE 1/2 MILE WEST OF WHITING ROAD.	S RIVEL L=GRI CHARL	420541 RIVER BASIN L=GREATER TI HARLTON,MA.	BUFFUM 10 0715 4 HAN BRIDG ROAD.	BUFFUNVLE O4 I /TYPA/AMBNT/STREAM 4205410 07155510 ORTER BROOK 6ASIN BUFFUNVILLE LAKE ATETHAN J-STIMATED VALUE 0M.RA HAN D-STIMATED YALUE 0M.RA BRIDGE ON SOUTHBRIDGE ROAD APPROXIM	E 04 1 / TYPA/. 10 ORTER BROOM BUFUNVILLE LAKE ESIMMATED VALUE ON SOUTHBRIDGE R	YPA/AN DK LAKE LUE SE RO/	MBNT/ST	A TE					
COMPONENT	TN		UN115	FACTOR	NOBS 1	NOBS NDATES	DATE	DATE-RANGE	DEPTH-RANGE	ANGE	MEAN	STD DEV	MINIMUM	25%	MEDIAN	75%	MAXEMUN
14 WATER	2	1582	CENT		166	166	710525	781226	0		14.520	6.902	1.169	8.939	18.449	20.000	28.09
ž.	8		MG/L		166	166	710525	781226	۰	۰	9.312	2.215	4.699	7.699	8.699	10.524	15.000
18 CND	CNDUCTVY	FIELD	DH I CROMHO	9	165	165	710525	781226	0	•	66.133	22.066	33.000	57.000	60.000	67.000	180.00
20 P	Ŧ		3		166	166	710525	781226	0	0	6.505	0.545	5.199	6.199	6.399	6.199	8.500
24 101	TOT HARD	CACO3	HG/L		102	102	710525	780720	•	0	20.271	17.309	3.000	11.074	14.899	22.449	134.00
25 CHLD	CHLOR10E	ช	MG/L		75	75	730517	780619	•	0	22.669	22.372	5.399	10.299	17.000	26.000	140.000
28 SULFATE		S04-T0T	MG/L		24	24	730321	780727	•	0	8.987	4.580	1.189	6.199	8.000	10,375	20.000
27 IR	NON	FE,10T	UG/L	x 1000	001	100	100 730530	780720	•	0	0.223	0.168	0.019	0.142	0.199	0.247	1.09
29 MANG	MANGNESE	ž	UG/L		93	92	730321	780720	•	0	32.282	91.832	20.000	20.000	20.000	20.000	900.006
31 CALCIUM	¥51:	CA-TDT	WG/L		96	86	710525	780720	0	0	6.468	6.408	1.199	3.199	4.299	7.324	47.500
33 MGNS1UM	31 UM	MG. TOT	MG/L		86	86	710525	780720	0	•	0.845	0.179	0.019	0.750	0.834	0.932	1.649
35 SODIUM	#0.1	NA.101	MG/L		91	97	731004	780720	•	•	4.923	2.671	1.199	3.799	4.299	5.049	24,599
37 PTSSIUM		K, TOT	MG/L		58	85	730321	760709	•	•	1.198	0.742	0.199	0.574	1.279	1.504	4.399
39 1.	TURB	NSX	JTC		162	162	710525	781226	•	•	1.084	0.863	0.399	0.699	0.899	1.199	7.500
46 AP	AP COLOR	PT-C0	UNITS		32	35	730321	780824	•	0	37.114	15.758	15.000	30.000	35.000	40.000	85.000
47 511	STLICA	DISOLVED	NG/L		-	-	750204	750204	0	۰	0.939	0.000	0.929	0.929	0.929	0.939	0.92
49 BC	900	S DAY	HG/L		-	-	730530	730530	•	•	0.339	0.000	0.339	0.339	0.339	0.339	0.33
\$5 TOTAL	4 1		4 1/9M		33	33	730615	780824	۰	•	0.061	0.128	900.0	0.009	0.013	0.029	0.623
59 PH05	PH05-015	ORTHO	MG/L P		•	60	730321	770414	0	۰	0.019	0.020	000.0	0.001	0.011	0.024	0.06
63 NH3	N-EHN	TOTAL	MG/L		₩	Œ	730321	750825	•	•	0.411	0.155	0.099	0.324	0.439	0.497	0.619
66 NO2	N-20N	TOTAL	MG/L		12	12	730321	780720	•	•	0.005	0.004	0.001	0.001	0.003	0.007	0.014
68 NO3	N-EON	TOTAL	HG/L		79	79	79 730517	780817	•	•	0.964	3.909	0.041	0.269	0.419	0.599	35.000

Figure 4
Sample Water Quality Station Map



descriptions, some editing of obvious coding errors in station coordinates has been possible.

WQ Data Inventories

- 66. Table 28 presents an inventory of water quality data by station type and division. Corresponding inventories by project and district are given in Appendix A. Overall, 271 out of 299 projects are represented in the water quality files. Remaining regional deficiencies include St. Paul District (6 out of 13 projects), Portland District (9 out of 17 projects), and Los Angeles District (0 out of 2 projects).
- 67. An inventory by station type and parameter code is given in Table 29. As expected, temperature, pH, and oxygen are the most frequently represented parameter codes in the file. No data were located for one code (09 -- average daily spillway flow).

68. Phosphorus, chlorophyll-a, and Secchi depth data are particularly relevant to assessing eutrophication problems and therefore to Phase II modelling efforts. Table 30 presents an inventory of these measurements made at pool stations (type codes 2, 4, or 5) by division. Corresponding inventories by project and district are given in Appendix A. Out of 299 projects in the central project list, total phosphorus data have been located for 211, chlorophyll-a data for 132, and Secchi depth data for 171. Some regional deficiencies in total phosphorus data are evident particularly in the New England Division (12 out of 22 projects), North Atlantic Division (6 out of 15 projec's), North Central Division (6 out of 16 projects), and North Pacific D ion (6 out of depth inventories. These inventories indicate that the data base will not be sufficient to assess the trophic state of all CE projects with appreciable pools. The complete coverage for roughly 130 projects indicates, however, that the data base should be generally sufficient for model testing purposes, the primary objective of Phase II. Regional testing of models should also be possible, with a few exceptions (e.g.,

Table 28

Inventory of Water Quality Data by Station Type and CE Division

INVENTORY OF WATER QUALITY DATA BY STATION TYPE

•	TOTAL!-	TRIBU	ITARY- !!-	204	11	NEAR	DAM-! !-	DISCH	ARGE-!!-	H10	E8	101	AL!
DIVISION	PROJ	NSTA	PROJ NSTA NOBS	NSTA	NOBS	NSTA	NOBS	NSTA	NSTA NOBS NSTA NOBS NSTA NOBS NSTA NOBS NSTA	NSTA	NOBS	NSTA	NOBS
1 NED	22	5		53	18871	4	15479	26	44515	0	0	170	144833
2 NAD	15	40	6192	25	2291	=	1416	20	4321	4	438	100	14658
3 SAD	24	420		159	50181	34	20605	8	51451	4	3025	734	252269
4 ORD	64	534		423	255705	115	181239	137	69368	16	12659	1300	634156
5 NCD	16	30		27	7985	00	1953	80	711	7	06	75	20748
6 LMVD	15	168		61	24301	24	28579	30	20091	21	1620	304	148320
2 SWD	99	399		249	74982	80	52201	115	102866	57	3942	906	424054
8 MRD	31	172		193	43504	19	23453	64	62721	40	3389	530	206878
OAN 6	27	96		22	22545	-	12167	34	28957	-	60	164	99912
10 SPD	19	11		35	9155	18	12815	40	25708	4	215	174	77366
TOTALS	299	1987	727587	1247	509520	402	349907	554	410709	261	25471	44512	44512023194

INVENTORY OF WATER QUALITY DATA BY STATION TYPE
*** NUMBER OF PROJECTS WITH ONE OR MORE ENTRY BY DIVISION***

11	NOBS	22	12	22	64	တ	15	61	31	18	11	271
T0T	NSTA	22	12	22	64	6	15	61	31	9	=	271
R 1!-	NOBS	0	_	g	22	-	11	21	13	-	1	7.7
OTHER TOTAL	NSTA	0	-	9	22	-	=	21	13	-	+	77
RGE-!!-	NOBS	22	6	20	64	7	15	50	22	17	16	242
-DISCHA	NSTA	22	•	50	64	-	15	50	22	17	16	242
DAM-11-	NOBS	11	8	14	9	S	15	48	31	7	=	210
NEAR	NSTA	11	8	14	9	ဌ	15	48	31	1	=	210
	NOBS	15	0	16	58	7	4	37	58	ഗ	9	201
POOL NEAR DAM- DISCHARGE-	NSTA	15	0	16	58	7	14	37	53	S	9	201
ARY-!!-	NOBS	22	ச	19	61	7	15	51	56	16	16	242
TOTAL! TRIBUTARY-!!	NSTA	22	O	19	61	7	15	51	5 6	16	16	242
OTAL!	PROJ	22	<u>.</u>	24	64	16	15	99	E	27	19	588
	DIVISION	1 NED	2 NAD	3 SAD	4 ORD	5 NCD	6 LMVD	2 SWD	8 MRD	Odn 6	10 SPD	TOTALS

Table 29

Inventory of Water Quality Data by Component and Station Type

CENCY CODE 152 5390 76 4362 21 5236 CENCY CODE 152 5390 76 4362 21 5236 CENCY CODE 156 2956 107 3923 28 4997 CENCY CODE 156 294 467 2117 125 573 690 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1000000	ļ		-										00000		•
Court Cour		=			4	200	¥	SEC	425		4 7 8	200	4 6	200	4	
According to the point of the	1 00027	COLLEC		CODE	152	5390	76	4362	2	5236	93	2875	0	0	342	17863
The color of the	2 00028	ANGLYZ	•	CODE	156	2956	107	3923	28	4397	92	1975	0	٥	383	1325
Common Name	3 72025	DEPTH O		FEET	69	284	467	2117	125	573	6	53	0	٥	667	30
TOUGO FEEV FEET B MS1 TOUGO FOREBAY ELEV, FT ABOV MSL TOUGO FOREBAY ELEV, FT ABOV WSL TOUGO FOREBAY FILLMAY CFS TOUGO FOREBAY FILLWAY			DEPTH	FEET	50	720	9	95	6	98	7	245	0	0	36	1155
The color The			Ę	MSL	53	125	155	2904	30	1118	œ	215	0	0	223	4362
ACCORD A			ž		12	175	28	632	0	309	7	204	0	٥	57	1320
NSTREAM FLOW INSTICKE NO. 0 0 0 0 0 0 0 0 0			ELEV, FT	ABOV MSL	9	25	29	215	22	277	9	4	0	0	63	558
Note of the property			STORAGE	AC-FT	0	0	12	416	22	293	0	٥	0	0	34	70
Name		Ì	SPILLWAY	CFS	0	0	0	٥	٥	0	0		0	٥	٥	
STREAM FLOW INST-CFS 407 13927 13 153 13 238			SPILLWAY	CFS	7	110	0	٥	0	0	18	1720	0	0	20	1830
STREAM FLOW CFS 875 18874 56 661 25 416			FLOW.	INST-CFS	407	13927	£1	153	<u>.</u>	238	204	7334	01	106	8	21758
STREAM STAGE FEET 119 2797 15 171 11 214			FLOW	CFS	875	18874	56	661	25	416	260	8146	9	267	1222	28364
00010 WATER TEMP CENT 1149 5460 1194 92820 393 58811 000299			STAGE	FEET	119	2797	÷	171	=	214	58	1793	-	~	204	497
Name			TEMP	CENT	1149	54660	1194	92820	393	58811	434	37962	21	429	3191	244682
00099 REDOX ORP MG/L 394 13797 418 48877 116 28719 00099 REDOX ORP MG/L 30 2026 1674 35255 237 21344 00099 CNDUCTVY FIELD MICROMHQ 663 27853 827 24369 247 20525 200095 CNDUCTVY FIELD MICROMHQ 663 27853 827 24369 247 20525 200090 CNDUCTVY FIELD MICROMHQ 663 27853 827 24369 247 20525 200400 DH SU ALK CACO3 MG/L 921 23458 901 16693 313 7966 00435 TALK CACO3 MG/L 921 23458 901 16693 313 7966 00435 TALK CACO3 MG/L 921 23458 901 16693 313 7966 00435 TALK CACO3 MG/L 201 23458 901 16693 313 7966 00435 TALK CACO3 MG/L 744 25246 358 6083 172 5069 00945 CHICRIDE CL MG/L 744 25246 358 6083 172 5069 00945 CHICRIDE CL MG/L 744 25246 358 6083 172 5069 00945 CHICRIDE CL MG/L 744 25246 358 6083 172 5069 00945 CHICRIDE CL MG/L 744 25246 358 6083 172 5069 00945 CHICRIDE CL MG/L 744 25246 358 6083 172 5069 00945 CACO MM FE, DISS UG/L 770 12049 351 5294 156 5215 01055 MMNGNESE MN DISS UG/L 700 12049 351 5294 156 5215 01055 MMNGNESE MN DISS UG/L 700 12049 361 2594 156 5215 00992 CACO UM MMC, DISS MG/L 336 6551 115 1446 59 1680 00992 CACO UM MMC, DISS MG/L 295 6551 115 1446 59 1680 00992 CACO UM MMC, DISS MG/L 295 6551 115 1446 59 1680 00993 TURB MG, DISS MG/L 259 8551 115 1446 59 1680 00993 TURB TRANS MG/L 259 8593 197 445 122 524 1960 00993 TURB TRANS MG/L 259 8593 197 445 122 5254 00093 TURB TRANS MG/L 259 8593 197 445 122 5244 161 184 174 174 174 174 174 174 174 174 174 17		i	!	MG/L	701	28427	765	21774	263	20680	306	15178	9	222	2038	8628
000990 REDDX DRP MY 176 1366 166 10512 47 8143 000994 CNDUCTVY FIELD MICROMHQ 460 20826 674 35252 237 21324 000995 CNDUCTVY AT 25C MICROMHQ 460 20826 674 35252 237 21324 0009095 CNDUCTVY AT 25C MICROMHQ 460 20826 674 35252 237 21324 0009095 CNDUCTVY AT 25C MICROMHQ 460 2082 827 247 26525 237 21324 0009095 CAC03 MG/L 201 2107 111 3485 36 1154 009900 CHIDR PLANE CAC03 MG/L 201 2107 111 3485 36 1154 009900 CHIDR LAST MG/L 201 25426 358 6865 174 4985 010945 CHIDR LE, IOT MG/L 770 12945 351 544 161 5130 01045 NRONESE MN DG/L 770 12049 351 5294 166 5215 01045 NRONESE MN DG/L 770 12049 351 5294 166 5215 010995 CACCIUM CA,DISS MG/L 336 6591 131 1616 66 1464 00995 CACCIUM CA,DISS MG/L 336 6591 161 2180 97 1455 00995 CACCIUM CA,DISS MG/L 336 6591 161 2180 97 1455 00995 CACCIUM CA,DISS MG/L 336 6591 161 2180 97 1455 00995 CACCIUM CA,DISS MG/L 336 6591 161 2180 97 1455 00995 CACCIUM CA,DISS MG/L 295 6651 161 2180 97 1455 00995 CACCIUM NA,DISS MG/L 295 6651 161 2180 77 1001 1001 100997 PTSSIUM K,DISS MG/L 295 6651 1199 77 1448 74 1175 1446 50993 PTSSIUM K,DISS MG/L 295 6651 1199 79 1448 77 157 1578 00993 PTSSIUM K,DISS MG/L 295 6651 1734 167 170 1001 100093 PTSSIUM K,DISS MG/L 295 6651 1734 167 167 167 1001 1001 100093 PTSSIUM K,DISS MG/L 295 6651 1734 167 167 167 167 1000 100094 PTSSIUM K,DISS MG/L 295 6651 1734 167 167 167 167 1000 100094 PTSSIUM K,DISS MG/L 295 6651 1734 167 167 167 167 167 167 167 167 167 167			PROBE	1/9m	394	13797	418	48877	116	28719	118	14056	-	116	1064	10556
COURTY FIELD MICROMHQ 460 20826 674 35255 237 21324 COUGOS CNDUCTVY AT 25C MICROMHQ 663 27853 827 24569 247 20525 CNDUCTVY AT 25C MICROMHQ 663 27859 107 2469 247 20525 CND403 LAB PH SU 273 4573 180 4070 54 1234 COC410 TALK CAC03 MG/L 921 23458 901 16693 313 7966 CND410 TOT HARD CAC03 MG/L 921 23458 901 16693 313 7966 CND410 TOT HARD CAC03 MG/L 201 2107 11181 1345 356 1154 CND940 CHUDRIDE CL MG/L 677 19653 358 5885 174 4985 CND940 CHUDRIDE CL MG/L 437 5620 211 3211 166 4253 CND945 SULFATE SOUPLY MG/L 437 5620 211 3211 96 4253 CND945 SULFATE SOUPLY MG/L 437 5620 211 3211 96 4253 CND945 SULFATE SOUPLY MG/L 437 5620 211 3211 96 4253 CND945 SULFATE SOUPLY MG/L 335 6551 133 1556 64 2085 CND95 MANGNESE MN, DISS MG/L 336 6551 133 1566 64 2085 CND95 CALCIUM CA-DISS MG/L 336 6551 133 1566 64 2085 CND97 MGNSIUM MG, DISS MG/L 337 10188 164 2221 96 1464 CND97 PTSSIUM K, DISS MG/L 295 6651 115 1446 59 1680 CND93 PTSSIUM K, DISS MG/L 295 6651 115 1446 59 1680 CND93 PTSSIUM K, DISS MG/L 295 6651 115 1446 59 1680 CND93 PTSSIUM K, DISS MG/L 295 6651 115 1446 59 1680 CND93 PTSSIUM K, DISS MG/L 295 6651 115 1446 2221 96 1464 CND93 PTSSIUM K, DISS MG/L 295 6651 115 1446 2221 96 1464 CND93 PTSSIUM K, DISS MG/L 298 5092 131 137 137 137 157 157 157 157 157 157 157 157 157 15			980	>	176	1366	166	10512	47	8143	53	681	0	•	442	20702
CO0095 CNDUCTVY AT 25C MICROMHO 663 27853 827 24369 247 20525 C0400 LAB PH SU 110 4729 10 400 401		i	FIELD		460	20826	674	35255	237	21324	151	9289	30	268	1542	86962
00400 PH SU 1110 47259 1107 49313 376 37154 00400 TALK CAC03 MG/L 273 4573 1107 491 334 1234 00435 TALDITY CAC03 MG/L 201 2107 111 3485 36 1154 00940 TOT HARD CAC03 MG/L 740 254246 358 6083 172 5065 00945 SULFATE SOA-TOT MG/L 770 12945 358 6083 174 4985 01045 SULFATE SOA-TOT MG/L 770 12945 358 5665 174 4985 01045 SULFATE SOA-TOT MG/L 770 12049 351 5244 156 5215 01045 SULFATE SOA-TOT MG/L 700 12049 351 5294 156 5215 01055 MAGNESE MN L 735 6			AT 25C		663	27853	827	24369	247	20525	314	25725	-	291	2058	9816
00403				Sc	1110	47259	1107	49313	376	37154	412	24133	27	272	3032	158131
00435 T ALK CACO3 MG/L 201 2107 111 3485 361 154 00900 101 HORD CACO3 MG/L 201 2107 111 3485 36 1154 00900 101 HORD CACO3 MG/L 201 2107 111 3485 36 1154 00905 101 HORD CACO3 MG/L 25426 358 5663 172 5669 101045 SULFATE CALL MG/L 772 12945 351 544 161 5130 101045 SULFATE CALL MG/L 772 12945 351 544 161 5130 101045 IRON FE,DISS UG/L 720 12945 351 544 161 5130 101045 MANGNESE MN, DISS UG/L 700 12049 351 5294 156 5215 101055 MANGNESE MN, DISS UG/L 700 42049 361 5294 156 5215 101056 MANGNESE MN, DISS UG/L 700 42049 361 5294 156 5215 101056 MANGNESE MN, DISS UG/L 338 6551 133 1566 64 2085 100915 CALCIUM MG,DISS MG/L 338 6551 133 1566 64 2085 10092 CALCIUM MG,DISS MG/L 339 6597 131 1616 66 1827 10092 CACCIUM MG,DISS MG/L 339 6597 131 1616 59 1680 10092 CACCIUM MG,DISS MG/L 295 6651 115 1446 59 1680 10092 CACCIUM MG,DISS MG/L 295 6651 115 1446 59 1680 10093 PTSSIUM K,DISS MG/L 295 6651 115 1446 59 1680 10093 PTSSIUM K,DISS MG/L 250 8353 89 1001 70 1001 1001 10003 TURB TRAISM MG/FT 1184 74 4616 228 1652 10001		į	H.	Su	273	4573	180	4070	54	1234	114	5124	15	295	636	15296
009435 T ACDITY CACG3 MG/L 201 2107 111 3485 36 1154 00990 TOT HARD CACG3 MG/L 802 25428 499 11181 192 7065 009945 SULFATE SCA-TOT MG/L 677 19653 358 6083 172 5069 01045 IRON FE,TOT UG/L 720 12945 351 544 151 5130 01045 IRON FE,TOT UG/L 720 12945 351 544 151 5130 01055 MANGNESE MN DISS UG/L 437 5620 211 3211 321 196 5215 01055 MANGNESE MN,DISS UG/L 408 4588 206 3090 92 4208 00915 CACCIUM CA,DISS MG/L 336 6551 133 1566 5215 00925 CACCIUM CA,DISS MG/L 336 6551 131 1616 56 1827 00925 MGNSIUM MG,TOT MG/L 336 6551 131 1616 680 1464 00925 SODIUM NA,TOT MG/L 295 6651 115 1448 74 1175 00935 PTSSIUM K,TOT MG/L 299 5092 131 1374 57 1578 00935 TURB UKSN MG/L 250 8353 89 1001 70 1001 10070 TURB TRBIDMTR MACH FTU 250 8353 89 1001 70 1001 00035 TRANS CHI METERS 173 1184 74 122 5201 00034 ITANSP SECCHI METERS 173 1184 74 165 5000 00034 ITANSP SECCHI METERS 173 1184 74 1422 5201			CAC03	MG/L	921	23458	106	16693	313	1966	383	15224	23	359	2541	63700
00990 TOT HARD CACG3 MG/L 744 25546 358 6685 174 565 00945 CHILDRIDE CL MG/L 744 25546 358 6685 174 4985 00945 CHILDRIDE CL MG/L 770 12945 358 6665 174 4985 01045 IRDN FE,TOT UG/L 770 12945 351 544 151 5130 01055 MANGNESE MN, DISS UG/L 770 12049 351 5294 156 5213 01056 MANGNESE MN, DISS UG/L 700 12049 3051 5294 156 5213 000916 CALCIUM CA-DISS MG/L 336 6551 133 1556 64 2085 00915 CACLIUM CA,DISS MG/L 330 6297 131 1616 66 1464 00925 MGNSIUM MG,DISS MG/L 330 6297 131 1616 66 1464 00925 MGNSIUM MG,DISS MG/L 295 6651 115 1446 59 1680 00937 PTSSIUM N, DISS MG/L 295 6651 115 1446 59 1680 00937 PTSSIUM N, DISS MG/L 250 8533 89 1001 70 1011 100937 PTSSIUM N, DISS MG/L 250 8353 89 1001 70 1001 100033 TANB TRANS X 198 164 228 1580 00034 178 MG/L 250 8353 89 1001 70 1001 100034 178 MG/L 250 8353 89 1001 70 1001 100034 178 MG/L 250 8353 89 1001 70 1001 100034 178 MG/L 250 8353 89 1001 70 1001 100034 178 MG/L 250 8353 89 1001 70 1001 100034 178 MG/L 250 8353 89 1001 70 1001 100034 178 MG/L 250 8353 89 1001 70 1001 100034 178 MG/L 250 8353 89 1001 70 1001 100034 178 MG/L 250 8353 89 1001 70 1001 100034 178 MG/L 250 8353 89 1001 70 1001 100034 178 MG/L 270 MG/M/M/M/M/M/M/M/M/M/M/M/M/M/M/M/M/M/M/			CACO3	1/9m	201	2107	111	3485	36	1154	73	3165	18	299	439	10210
00945 CULCATOR CL MG/L 677 19653 358 6083 172 5069 00945 SULFATE SO4-TOT MG/L 677 19653 358 5865 174 4985 01045 SULFAT UG/L 677 19653 358 5865 174 4985 01046 IRON FE,DTT UG/L 437 5620 211 3211 96 4253 01055 MANGNESE MN,DISS UG/L 700 12049 351 5294 156 5215 01056 MANGNESE MN,DISS UG/L 700 12049 351 5294 156 5215 00915 CALCIUM CA-TOT MG/L 335 6551 133 1556 64 2085 00925 CALCIUM MG,TOT MG/L 336 6551 133 1566 64 2085 00927 MGNSIUM MG,TOT MG/L 337 10189 164 2221 96 1425 00929 MGNSIUM MG,TOT MG/L 295 6651 115 1446 59 1680 00929 SODIUM NA,TOT MG/L 295 6651 115 1446 59 1680 00937 PTSSIUM K,TOTS MG/L 259 5651 115 1446 59 1680 00937 PTSSIUM K,TOTS MG/L 250 8353 89 1001 70 1001 00935 PTSSIUM K,TOTS MG/L 250 8353 89 1001 70 1001 00937 TURB TRBIDMIR MACH FTU 523 7100 413 9454 122 5201 00078 TRANSP SECCHI METERS 173 1184 74 4616 228 1962 00074 TURB TRBIDMIR MACH FTU 523 7100 413 9454 122 5201 00074 TRANSP SECCHI METERS 173 1184 74 4616 228 1962 00074 TRANSP SECCHI METERS 173 1184 74 4616 228 1962			CAC03	#6/ r	805	25428	490	11181	192	7065	360	18055	23	351	1867	62080
00945 SULFATE SOU-FATE 677 19653 358 5865 174 4985 01045 IRON FE, 10T UG/L 720 12945 351 544 161 5130 01045 IRON FE, 10T UG/L 700 12049 351 5294 156 5215 01055 MAGNESE MN, DISS UG/L 408 206 3291 156 5215 01055 MAGNESE MN, DISS UG/L 408 206 3294 156 5215 00915 CALCIUM CA-DTS MG/L 336 6551 133 1566 5215 00927 CALCIUM CA-DTS MG/L 330 6297 131 1616 56 5215 00927 MGASIUM MG, DISS MG/L 295 6651 115 1446 59 1680 00929 SOOLUM NA, DISS MG/L 295 6651 157 446			ี ว	1/9#I	744	25246	358	6083	172	5069	344	14998	6	290	1627	51686
Octobe		S	S04-10T	#6/r	677	19653	358	5865	174	4985	328	12163	19	305	1556	42968
01055 MANGNESE MN UG/L 437 5620 211 3211 96 40 1055 MANGNESE MN UG/L 700 12049 351 5294 156 1055 MANGNESE MN, DIS MG/L 335 6551 133 1556 64 100915 CALCIUM CA-TOT MG/L 335 6551 133 1556 64 100925 MG/L 330 6297 131 1516 64 100925 MG/L 330 6297 1131 1516 56 100925 MG/L 330 6297 1131 1516 56 100925 MG/L 330 6297 1131 1516 56 100925 MG/L 330 6297 1159 1446 59 100930 MG/L 250 8353 89 1001 70 10930 MG/L 250 8353 89 1001 70 100935 PTSSIUM K,DISS MG/L 250 8353 89 1001 70 100935 PTSSIUM K,DISS MG/L 250 8353 89 1001 70 100935 MG/L 250 8353 89 1001 70 100035 MG/L 250 8353 MG/L 250 83		Ì	FE, TOT) /9n	720	12945	351	5444	191	5130	311	7956	21	204	1564	3167
01055 MANGNESE MN UG/L 700 12049 351 5294 156 10056 MANGNESE MN, DISS UG/L 408 4588 206 3090 92 200916 CALCIUM CA-DISS UG/L 408 4588 206 3090 92 200915 CALCIUM CA-DISS MG/L 336 6551 133 1556 64 00927 MG/L 336 6551 133 1556 64 00927 MG/L 330 6297 131 1616 66 00925 MG/NSIUM MG, DIS MG/L 295 6651 115 1446 59 00930 00930 MG, DISS MG/L 295 6651 115 1446 59 00930 00937 PTSSIUM N, DISS MG/L 259 1198 79 1448 74 00937 PTSSIUM N, DISS MG/L 250 8353 89 1001 70 10037 TURB UNSN UTU 468 17340 197 4979 97 00035 TRANS N, MM C 220 17340 197 4979 97 00035 TRANS N, MM C 250 8353 89 1001 70 100076 TRANS N, MM C 250 8353 129 1374 22 1488 17810 MM C 107 1000076 TRANS N, MM C 250 8353 129 1374 22 1488 17810 MM C 107 107 107 107 107 107 107 107 107 107			FE, DISS	7/9n	437	5620	211	3211	96	4253	172	2681	7	19	923	1578
200916 GALCIUM CA-DISS UG/L 408 4588 206 3090 92 00916 CALCIUM CA-DISS MG/L 335 6551 133 1566 64 00915 CALCIUM CA-DISS MG/L 336 6551 133 1566 64 00927 MG/L 330 6297 131 1616 66 00929 MG/L 337 10189 164 2221 96 00929 SODIUM NA,TOT MG/L 295 6651 1198 79 1446 59 00937 PTSSIUM N,TOT MG/L 298 6691 1198 79 1446 79 00937 PTSSIUM N,TOT MG/L 298 6692 131 1374 57 00937 PTSSIUM N,TOT MG/L 298 6692 131 1374 57 00937 PTSSIUM N,TOT MG/L 298 6692 131 1374 57 00937 TURB UXSN M/L 250 8353 89 1001 70 C0070 TURB TRBIDMIR MAFTER 13 1349 461 228 00076 TRANSP SECCHI METERS 173 1184 749 4616 228 00078 TRANSP SECCHI METERS 173 1184 749 4616 228 00078 TRANSP SECCHI METERS 173 1184 749 4616 228 00074 TRANSP SECCHI METERS 173 1184 749 4616 228 00074 TRANSP SECCHI METERS 173 1184 749 4616 228 00074 TRANSP SECCHI METERS 173 1184 749 4616 228 00074 TRANSP SECCHI METERS 173 1184 749 4616 228 00074 TRANSP SECCHI METERS 173 1184 749 4616 228 00074 TRANSP SECCHI METERS 173 1184 749 4616 228 00074 TRANSP SECCHI METERS 173 1184 749 4616 228 00074 TRANSP SECCHI METERS 173 1184 749 4616 228 00074 TRANSP SECCHI METERS 173 1184 749 4616 228 00074 TRANSP SECCHI METERS 173 1184 749 4616 228 00074 TRANSP SECCHI METERS 173 1184 749 4616 228 00074 TRANSP SECCHI METERS 173 1184 749 4616 228 00074 TRANSP SECCHI METERS 173 1184 749 4616 228 00074 TRANSP SECCHI METERS 173 1184 749 4616 228 00074 TRANSP SECCHI METERS 173 1184 749 4616 228 00074 TRANSP SECCHI METERS 173 1184 749 4616 238 288 489 1001 TRANSP SECCHI METERS 173 1184 749 4616 238 288 489 1001 TRANSP SECCHI METERS 173 1184 749 4616 228 288 489 1001 TRANSP SECCHI METERS 173 1184 749 4616 228 288 489 1001 TRANSP SECCHI METERS 173 1184 749 4616 228 288 489 1001 TRANSP SECCHI METERS 173 1184 749 4616 238 749 749 749 749 749 749 749 749 749 749			Z	7/50	700	12049	351	5294	156	5215	285	7429	2	186	1513	3017
00916 CALCIUM CA-TOT MG/L 335 6551 133 1556 64 00915 CALCIUM CA-DISS MG/L 340 10086 161 2180 97 00929 MGNSIUM MG,TOT MG/L 337 10188 164 2221 96 00929 SODIUM NA,TOT MG/L 298 6651 115 1446 59 00930 SODIUM NA,TOT MG/L 298 5092 131 1374 57 00935 PTSSIUM K,TOT MG/L 250 8353 89 1001 70 00935 PTSSIUM K,DISS MG/L 250 8353 89 1001 70 00035 TURB TRANS K 19 468 17340 197 4979 97 00076 TURB TRBIDMTR HACH FTU 523 7100 413 9454 122 00078 TRANSP SECCHI MEFRS 173 1184 749 669 122 00078 TRANSP SECCHI MEFRS 173 1184 749 4616 228 00078 TRANSP SECCHI MEFRS 173 1184 749 4616 228		1	•	7/9n	408	4588	206	3090	92	420B	163	2440	7	21	876	14347
00925 GACTOUM CA.DISS MG/L 340 10086 161 2180 97 00927 MGNSIUM MG,TOT MG/L 330 6297 131 1616 66 66 00929 MGNSIUM MG,TOTS MG/L 330 6297 131 1616 66 66 00929 SODIUM NA.TOT MG/L 295 6651 115 1446 59 00930 SODIUM NA.TOT MG/L 298 6651 115 1446 59 100930 PTSSIUM K,TOTS MG/L 298 5092 131 1374 57 00935 PTSSIUM K,TOTS MG/L 250 8353 89 1001 70 100935 PTSSIUM K,TOTS MG/L 250 8353 89 1001 70 100036 TRANS MG/L 250 8353 89 1001 70 100036 TRANS MG/L 250 8353 89 1001 70 100036 TRANS MG/L 223 7100 413 9454 122 100076 TRANSP SECCHI MEFERS 173 1184 749 4616 228 100034 100034 100034 1184 74 1463			CA-101	MG/L	335	6551	133	1556	64	2085	145	4271	0	0	677	1446
00927 MGNSIUM MG,TOT MG/L 330 6297 131 1616 66 66 60929 MGNSIUM MG,TOTS MG/L 237 10188 164 2221 96 60929 SODIUM NA,TOT MG/L 295 6651 1198 74 426 59 60930 SODIUM NA,TOT MG/L 298 6651 1198 79 1148 74 60935 PTSSIUM K,TOT MG/L 298 6651 1374 57 700035 PTSSIUM K,DISS MG/L 298 6692 131 1374 57 60035 PTSSIUM K,DISS MG/L 298 89 1001 70 100035 PTSSIUM K,DISS MG/L 298 89 1001 70 100035 PTSSIUM K,DISS MG/L 250 8353 89 1001 70 100035 PTSSIUM K,DISS MG/L 250 8353 89 1001 70 100035 PTSSIUM K,DISS MG/L 250 8353 89 1001 70 100035 PTRBIDMIR MACH FTU 523 7100 413 9454 122 100034 PTRBIDMIR MACH FTU 523 7100 413 9454 122 100034 PTRBIDMIR MACH FTU 523 7100 413 9454 122 100034 PTRBIDMIR MACH FTU 523 7100 413 9454 122 100034 PTRBIDMIR MACH FTU 523 7100 413 9454 122 100034 PTRBIDMIR MACH FTU 523 7100 413 9454 132 100034 PTRBIDMIR MACH FTU 523 7100 413 9454 132 100034 PTRBIDMIR MACH FTU 523 7100 413 9454 132 100034 PTRBIDMIR MACH FTU 523 7100 413 9454 132 100034 PTRBIDMIR MACH FTU 523 7100 413 9454 132 100034 PTRBIDMIR MACH FTU 523 7100 413 9454 132 100034 PTRBIDMIR MACH FTU 523 7100 413 9454 132 100034 PTRBIDMIR MACH FTU 523 7100 413 9454 132 100034 PTRBIDMIR MACH FTU 523 7100 413 9454 132 100034 PTRBIDMIR MACH FTU 523 7100 413 9454 132 100034 PTRBIDMIR MACH FTU 523 7100 413 9454 132 100034 PTRBIDMIR MACH FTU 523 7100 413 9454 132 100034 PTRBIDMIR MACH FTU 523 7100 413 9454 132 100034 PTRBIDMIR MACH FTU 523 7100 413 9454 132 100034 PTRBIDMIR MACH FTU 523 7100 413 9454 132 100034 PTRBIDMIR MACH FTU 523 7100 413 9454 132 100034 PTRBIDMIR MACH FTU 523 7100 413 9454 132 100034 PTRBIDMIR MACH FTU 523 7100 413 9454 132 100034 PTRBIDMIR MACH FTU 523 7100 413 9454 132 130 43 130 130 130 130 130 130 130 130 130 13			CA.DISS	MG/L	340	10086	161	2180	91	1455	201	6978	-	m	800	2010
00925 MGMSIUM MG,DISS MG/L 337 10188 164 2221 96 00929 SODIUM NA,TOT MG/L 298 6651 115 1446 59 00930 SODIUM NA,TOT MG/L 298 5092 131 1374 57 100935 PTSSIUM K,TOT MG/L 298 5092 131 1374 57 100935 PTSSIUM K,TOT MG/L 298 5092 131 1374 57 100070 TURB TRAIS MG/L 298 5092 131 1374 57 100070 TURB TRAIS K 19 468 17340 197 497 97 100076 TURB TRBIDMTR MACH FTU 523 7100 413 9454 122 100078 TRANSP SECCHI METERS 173 1184 7749 4616 228 100034 IRCHI FT 1% IGAT REMINS 69 180 43 180 17 180 17 180 17 180 17 180 17 180 17 17 180 180 180 180 180 180 180 180 180 180		1	MG TOT	√9, L	330	6297_	131	1616	98	1827	150	4132	a	a	677	.1387
00929 SODIUM NA,TOT MG/L 295 6651 115 1446 59 10930 00930 SODIUM NA,DISS MG/L 269 11199 79 1148 74 100930 SODIUM N,DISS MG/L 259 11199 79 1148 74 100935 PTSSIUM N,DISS MG/L 250 8353 89 1001 70 100935 PTSSIUM N,DISS MG/L 250 8353 89 1001 70 100076 TARNS N			MG.DISS	MG/ L	337	10188	164	2221	96	1464	198	6947	0	0	795	20820
00930 SODIUM NA,DISS MG/L 269 11198 79 1148 74 00937 PTSSIUM K,TOT MG/L 259 592 131 1374 57 00935 PTSSIUM K,TOTS MG/L 259 8592 131 1374 57 00935 PTSSIUM K,TOTS MG/L 250 8353 89 1001 70 10070 TURB UKSN JTU 468 17340 197 4979 97 00076 TURB TRBIDMIR MACH FTU 523 7100 413 9454 122 00076 TRANSP SECCHI METERS 173 1184 749 4616 228 00034 DEPTH-FT 1% IGAT REMINING 66 315 2684 89		S	NA. TOT	MG/L	295	6651	115	1446	59	1680	119	3989	~	8	290	1385
00937 PTSSIUM K,TOT MG/L 298 5092 131 1374 57 00935 PTSSIUM K,DISS MG/L 250 8353 89 1001 70 100070 TURB TRANS X 19 45 449 6683 128 00076 TURB TRANS X 19 45 449 6683 128 00076 TURB TREIDMTR HACH FTU 523 7100 413 9454 122 100078 TRANSP SECCHI METERS 173 1184 749 4616 228 100031 INCOT LT REMNING PERCENT 16 66 315 2684 89 100034 DEPTH-FT 1% LIGHT REMNING 69 180 43 140 170 170 170 170 170 170 170 170 170 17		1	NA DISS	/s#	269	11198	79	1148	74	22	164	7683	4	8	283	2126
C0070 TURB JUSN WG/L 250 8353 89 1001 70 1000 C0074 TURB TRANS			K, 101	¥G/ ₽	298	2609	131	1374	22	1578	123	3187	7	6 B	61	1132
C0070 TURB TRANS			K,DISS	MG/L	250	8353	68	1001	70	100	159	5749	7	5	\$70	1615
00074 TURB TRAINS X 19 45 449 6683 128 00076 TURB TRBIDMIR HACK FTU 523 7100 413 9454 122 00078 TRANSP SECCHI METERS 173 1184 749 4616 228 00078 TRANSP SECCHI METERS 173 1184 749 4616 228 100034 DEPTH-FT 1% LIGHT REMAINS 66 315 2684 89 180 180 43 182 182 182 182 182 182 182 182 182 182			CKSN	5.5 	468	17340	197	4979	97	2624	217	2		3	983	34426
00076 TURB TRBIDMTR MACH FTU 523 7100 413 9454 122 8 00078 TRANSP SECCHI METERS 173 1184 749 4616 228 00031 INCOT LT REMNING PERCENT 16 66 315 2684 89 100034 DEPTH-FT 1% LIGHT REMNING 69 180 43 180 17	.: 5 65074		TRANS	×	6	4	449	6683	128	2654	0	36	0	0	909	941
00034 TRANSP SECCHI METERS 173 1184 749 4616 228 100031 INCOT LT REMNING PERCENT 16 66 315 2684 89 100034 DEPTH-FT 1% 11GHT REMNING 189 180 43 180 17			TRBIDMTR	HACH FTU	523	7100	413	9454	122	5201	191	5737	- E	62	1262	27554
00031 INCOT LT REMNING PERCENT 16 66 315 2684 89 1			SECCHI	METERS	173	1184	749	4616	228	1962	37	426	٥	d	1187	B188
00034 DEPTH-FT 14 LIGHT REMAINS 69 180 43 180 17			REMNING	PERCENT	9	99	315	2684	68	1269	2	90	0	•	432	407
TO SOLUTION OF THE PROPERTY OF			1× CIGH	REMAINS	69	180	4	162	17	163	4	=	•	0	133	
00080 COLOR PI-CO UNITS 457 7406 228 3118 89 3			9	SIIN	457	7406	228	3118	BB	1265	148	4890	13	289	935	16968
		AT CO.LOR	3	0 - 7 - 0	•	2	0	3	2	3	7	?	>	>	5	

(Continued)

Table 29 (Concluded)

				TRI BU		1004		TANK PAR	DAM	だいのさつし				-	
COMPONENT			•	NSTA	NOBS	NSTA	NOBS	NSTA	NOBS	NSTA	NOBS	NSTA	NOBS	NSTA	NOBS
47 00955	SILICA	DISOLVED	1/9#	242	7159	68	1131	99	790	153	5135	-	=	551	14226
18 00956	SILICA	TOTAL	MG/L	25	126	6-	287	9	156	2	190	0	0	20	759
	800	5 DAY	MG/L	518	10033	200	2274	90	2002	227	4111	e	219	1038	18639
	203		146/L	245	6432	121	1195	64	792	115	3992	0	0	545	12411
	T ORG C	U	MG/L	404	5375	124	1808	7.1	1027	148	2560	~	140	749	10910
52 00681	D ORG C	υ	MG/L	132	1399	34	299	6	126	45	404	0	0	220	2228
53 00685	T. INORG		1/9W	23	745	9	56	6	68	12	263	٥	0	44	1153
54 00691	D 10RG C		MG/L	0	0	4	96	-	22	8	20	0	0	7	138
55 00665	TOTAL P		MG/L P	1803	33290	892	13000	324	8834	532	13925	250	2491	3801	71540
	SIG-SOH4	ļ	MG/L P	280	3624	177	2988	93	4555	126	1657	o	23	685	12847
69900 4	PHOS-101		MG/L P	ß	21	-	7	0	0	e	30	0	0	0	53
58 00678	PH05-101	I	MG/L P	17	58	14	67	19	120	S	23	0	0	55	268
	PHOS-015	ORTHO	MG/L P	1190	16221	561	7326	177	3130	286	4095	232	2273	2446	33045
	PHOS-T	ORTHO	MG/L P	236	2231	Ξ	1001	51	513	94	1137	8	90	494	4978
	TOTAL N	Z	MG/L	321	6049	120	1996	48	1192	86	3275	0	0	587	12512
62 00605	ORG N	z	MG/L	314	4245	143	2375	53	1119	105	2020	3	13	617	9772
	NH3-N	TOTAL	MG/L	1637	24012	825	11174	293	7192	459	7857	240	2408	3454	53243
	TOT KUEL	z	1/9w	1581	21524	722	9879	273	7156	395	6786	243	2463	3211	47808
65 80630	NO26N03	N-TOTAL	MG/L	1548	22424	747	10611	247	7456	392	7464	245	2439	3179	50394
6 00615	NO2-N	TOTAL	MG/L	994	9592	73	730	47	502	237	2765	160	1315	151	14904
67 00613	NO2-N	DISS	1/9m	=	1972	58	1179	25	465	46	1014	٥	٥	261	4630
68 00620	N-80N	TOTAL	1/5w	1180	15722	212	2467	127	1654	302	5986	168	1451	1992	27280
	N03-N	DISS	MG/L	210	7335	63	1691	42	751	142	5427	0	0	457	15204
	RESIDUE	TOTAL	1/5₩	332	6750	188	4648	83	4046	137	2317	7	215	747	17976
71 00505	RESIDUE	101 VOL	MG/L	214	2451	139	3308	51	2785	75	1065	m	m	482	9612
72 00515	RESIDUE	DI SS-105	C MG/L	261	4643	133	1612	56	783	-	1745	7	152	569	8935
	RESIDUE	- 1	1/9#	619	9261	301	6081	120	4501	237	4407	6	249	1286	24499
74 80154	SUSP SED		₩G/L	66	2793	ø	39	8	84	4	1359	0	٥	151	4239
	RESIDUE	DI SS-180	C MG/L	395	10970	84	1383	72	985	182	6937	~	127	735	20402
	₹-18 	FLU-COR	1/90	=	169	٥	9	٥	q	a	٩	٥	a	=	169
	CHL-A	FLU-UNC	UG/L	-	6	374	1151	110	350	~	9	0	0	487	1510
	CHL-A	TRIC-COR	NG/ L	54	277	50	68	80	431	~	58	0	0	88	852
79 32210	CHLTA	TRIC-UND	1/90	50	406	96	955	29	379	22	128	٥	a	206	1868
80 32230	CHL-A	UNSPEC	MG/L	15	337	1	538	m	162	G.	190	0	•	46	1227
81 60050	ALGAE	TOTAL	W/ML	48	1058	67	613	26	463	8	875	0	0	203	3009
12 00570	BIOMASS	PLANKTON	ML/L	-	7	27	239	13	205	٩	0	٥	0	41	451
83 85209	ALGAL		MG/∟	ស	4	22	123	ī,	64	~	7	0	0	34	242
84 60990	ZOOP L ANK	OTHER	/LITER	26	159	12	101	ø	36	4	5	0	0	78	311
3 31616	FEC COLI	MFM-FCBR	/100ML	503	10487	271	5713	93	1565	194	4462	4	463	1065	22690
86 31673	FECSTREP	MFKFAGAR	/100ML	165	1983	28	1356	13	423	64	1418	8	267	305	5447
87 31679	FECSTREP	MF M-ENT	/100ML	135	2141	45	326	55	<u> </u>	53	931	7	000	259	3642
88 50051	FLOW	RATE	INST MGD	٥	٥	٥	d	q	a	9	٩	185	1547	185	1547
89 50053	CONDUIT	FLOW-MGD	MONTHLY	0	0	0	0	0	0	0	0	187	1555	187	1555

Table 30

Inventory of Total Phosphorus, Chlorophyll-a, and Secchi Data at Pool Stations by CE Division

(ATIONS)	
S	
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SECCHI DATA (POOL STATIONS	
95	
** DIVISION TOTAL-P. CHL-A. &	
رية	
AIL.	
TOTAL-P	
C'E	
701	
* DIVISION	
55	
Z.	
INVENTORY OF	

1 NED 22 29 382 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		DLASI	NSTA	NOBS	JF IRST	NOBS DFIRST DLAST NSTA NOBS DFIRST DLAST	NSTA	NOBS	NSTA NOBS DFIRST DLAST	DLAST
15 21 222 24 141 2549 64 348 8120 16 30 605 15 73 936 66 279 4627 31 214 2257 27 28 1321	710607	780831	0	0	٥	0	٥	0	0	٥
24 141 2549 64 348 8120 16 30 605 15 30 605 15 279 4627 27 28 1321	720510	790501	16	. 89	720510 760721	760721	16	38	38 680711	790501
64 348 8120 16 30 605 15 73 936 66 279 4627 27 28 1321	650104	800110	81	266	730407	790730	136	698	730407	790809
16 30 605 15 73 936 66 279 4627 31 214 2257 27 28 1321	660105	791101	1 90	1341	711024	781012	303	3162	~	781012
15 73 936 66 279 4627 31 214 2257 27 28 1321	670713	791001	58	177		790806	30	114	-	20702 790806
66 279 4627 31 214 2257 27 28 1321	691204	790815	26	184		741111	99	238	720505	790815
31 214 2257 27 28 1321	650301	791204	154	. 629		790723	249	1451	740304	791105
27 28 1321		790802	76	256		780731	138	612	690616 7	790802
	650104	781025	19	584	740611	780509	18	4	750328	
SPD 19 53 815	710412	791018	=	30		751113	21	225	602089	791017
Acase See See Statut	401039		100	90.00	40000			i i		

INVENTORY OF TOTAL-P, CHL-A, & SECCHI DATA (POOL STATIONS)
*** NUMBER OF PROJECTS WITH ONE OR MORE ENTRY BY DIVISION***

	TOTAL !-		TOTAL !				1LOROPHY	Y-77	- []	\$	SECCH I		
DIVISION	PROJ	NSTA	NOBS	PROJ NSTA NOBS DFIRST DLAST	DLAST	NSTA	NQBS OF IRST DLAST NSTA NOBS	FIRST	DLAST	NSTA	NOBS	DFIRST	DLAST
1 NED	22	12	12		12		0	0	0	0	0	0	0
2 NAD	15	9	9	9	9		S	5	2	9	9	9	9
3 SAD	24	17	17		17		13	<u>.</u>	13	17	17	17	17
4 0RD	64	61	61				33	33	33	53	53	53	53
5 NCD	16	9	9	9		9	9	9	9	9	9	9	9
6 LMVD	15	13	<u>.</u>			13	13	13	13	13	13	13	13
7 SWD	99	46	46		46	34	34	34	34	34	34	34	34
B MRD	31	31	31			15	15	15	15	31	31	31	31
Odv 6	27	9	9			4	4	4	4	4	4	4	4
10 SPD	9	13	13		13	က	ro:	m	e	7	7	7	7

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the lack of chlorophyll-a or Secchi depth data for projects in New England).

- 69. The EPA National Eutrophication Survey is a primary source of data for testing nutrient loading models and relationships among within-pool measures of trophic state. An inventory of data holdings by agency, station type, and parameter code is given in Table 31. Two agency groupings are used: "EPA", representing the National Eutrophication Survey; and "OTHER", representing all other agencies and monitoring programs. Station types include tributary (type code 1), discharges (type code 3), and pool (type codes 2, 4, and 5). The parameter list includes a variety of nutrient, biological, chemical, and optical characteristics pertinent to eutrophication analysis. Within each category, the numbers of observations, sampling dates, stations, projects, and districts are indicated, along with the total period of record in station-months. Including data from agencies other than the EPA/NES has more than doubled the total numbers of observations of most parameters and provided additional useful measurements for some projects, such as algal cell numbers and volumes, turbidity, and suspended solids. At pool stations, non-EPA agencies provide more chlorophyil-a observations (2036 vs. 1499) concentrated in fewer projects (43 vs. 108). These and other statistics in Table 31 reflect the relative intensities of agency monitoring efforts -- many of the non-EPA programs are more intensive and extensive temporally than the three-date, one-growing-season program employed by the EPA/NES.
- 70. Based upon data inventories in Appendix A, some projects for which non-EPA data monitoring of trophic state indicators has been partically intense include the following:
 - 06-372 John H. Kerr
 - 15-399 Eau Galle
 - 16-311 East Branch Clarion River
 - 18-093 Monroe

- 18-120 Barren River
- 19-340 J. Percy Priest
- 26-359 Sam Rayburn
- 29-111 Pomona
- 32-204 Kookanusa

Table 31

Inventory of Eutrophication-Related Water Quality Components by Station Type and Monitoring Agency

TYPE:			TRIB			DSCH			POOL	
AGENCY:		EPA	OTHR	ALL	EPA	OTHR	ALL	EPA	DTHR	ALL
									•	
TOTAL P	_NOBS		23,496			12475			15145	
TOTAL P	NDAT	9771	22370	32141	1428	11895	13323	1418	788 9	9307
TOTAL P	NSTA	806	997	1803	116	416	532	479	737	1216
TOTAL P	NPRJ_	109	214	236_	108_	211	237_	108	185	211
TOTAL P	NDIS	27	30	31	27	29	30	27	28	29
TOTAL P	MTHS	8469	35292	43761	1230	21050	22280	2628	18388	21016
ORTHO-P	NOBS	9878	12198	22076	1456	5433	6889	6668	12851	19519
ORTHO-P	NDAT	985 5	10386	20741	1434	5063	6497	1418	5931	7349
ORTHO-P	<u>NȘTA</u>	808	726	1534_	116	<u>311</u>	427_	479	575	125 5
ORTHO-P	NPRJ	109	186	223	108	193	225	108	167	20 5
ORTHO-P	NDIS	27	29	31	27	28	30	27	26	29
ORTHO-P	MTHS	8459	15628	24087	1218_	8670	9888	_2528_	11554	14182
NH3-N	NOBS		14010	24012	1464	6393	7857	5682	12284	
NH3-N	_NDAT		_13380.		_1442	5254		<u> 1418</u>	5978	7396_
N-EHN	NSTA	808	829	1637	116	343	459	479	639	1118
NH3-N	NPRJ	109	197	221	108	198	226	108	169	202
_NH3-N	_NDIS_	27	29.	30_	27	28_	30_	27_	25	29
NH3-N	MTHS	8508	21659	30167	1231	11633	12864	2628	14074	16702
TKN	NOBS_	9970	11554	21524	1461_	5325	6786	_5575_	10459	17035
TKN	NDAT	9953	11032	20985	1439	5211	6650	1391	4754	6145
TKN	NSTA	804	777	1581	116	276	392	470	525	995
_TKN	NPRJ	109	175	206	108	173	211	105	152	192
TKN	NDIS	27	29	31	27	26	30	26	24	28
TKN	MTHS	8505	18057	2656 2	1230	8830	10060	2599	10869	13468
N02+3-N	NOBS	9999	12425	22424	1464	6000	7464	6682	11385	18067
N02+3-N	NDAT	9976	11907	21883	1442	5906	7348	1418	5302	6720
N02+3-N	NSTA_	807	741_	1548	116_	276	392	473	515	334
NC2+3-N	NPRJ	109	165	194	108	154	188	108	128	167
N02+3-N	NDIS	27	28	29	27	23	29	27	24	28
N02+3-N	MIHS	851C	17657	25177	1231	9360	10591	2528	12:46	
N03-N	NOBS	5978	17079	23057	784	10629	11413	0	6563	656 3
_NO3-N	_NDAL_	5968	16133	22101	781	9987	10763			4770_
ND3-N	NSTA	773	526	1299	111	274	385	0	409	409
N03-N	NPRJ	106	173	208	107	168	211	9	153	153
N03-N	_NDIS_	25	28	30_	25	26	29_		25	26
N03-N	MTHS	4904	20780	25684	617	13582	14199	0	7588	7588
CHL-A	NOBS	3	743	746	5	318	324	1499	2036	3535
CHL-A	NDAT	3	728	731	6	313	319	1490	1129	2619
CHL-A	NSTA	1	74	75	2	30	32	482	147	629
CHL-A	NPRJ	i	29	30		19	19	108	43	132_
CHL-A	NDIS	1	14	15	1	12	12	27	13	28
CHL-A	MTHS	5	1189	1194	8	377	385	2660	3145	5805
ALGAE(#)	NOBS	0	1058	1058	0	875	875	0	1076	1076
ALGAE(#)	NDAT	0	1053	1053	ō	875	875	0	907	907
ALGAE (#)	NSTA	0	48	48	a	32	32		123	123_
ALGAE (#)	NPRJ	0	26	26	0	29	29	0	59	59
ALGAE (#)	NDIS	0	12	12	0	14	14	0	12	12
ALGAE(#)	MIHS	0	1272	1272	a	1122	1122	0	1437	1437
						-				

(Continued)

Table 31 (Concluded)

TYPE:			TRIB			DSCH			POOL	
AGENCY:		EPA	OTHR	ALL	EPA	OTHR	ALL	EPA	OTHR	ALL
ALGAE(V)	NOBS	0	7	7	0	0		0	444	444
ALGAE (V)	NOAT	0	7	7	ő	ō	Ö	ő	430	430
ALGAE (V)	NSTA	Ō	1	1	ō	ō	ō	ō	40	40
ALGAE (V)	NPRJ	ō	1	1	ō	ō	Ö	ō	14	14
ALGAE (V)	NDIS	0	1	1	0	0	ō	0	1	1
ALGAE (V)	MTHS	0	6	6	ō	ō	ō	Ö	832	832
			•	•	•	•	•			
SECCHI	NOBS	3	1181	1184	6	420	426	1487	5091	6578
SECCHI	NDAT	3	1152	1155	6	349	355	1478	4969	6447
SECCHI	NSTA	1	172	173	_ 2	35	37	481	496	977
SECCHI	NPRJ	1	42	43	1	28	29	108	121	171
SECCHI	NDIS	1	14	14	1	12	12	27	20	28
SECCHI	MTHS	5	2137	2142	8	597	605	2629	12314	14943
TRANS(%)	NOBS	5	40	45	24	12	36	6781	2556	9337
TRANS(%)	NDAT	2	23	25	6	9	15	1419	368	1787
TRANS(%)	NSTA	1	18	19	2	8	10	481	96	577
TRANS(%)	NPRJ	1	11	12	1	8	9	108	21	121
TRANS(%)	NOIS	1	2	3		1	2	27	4_	27
TRANS(%)	MTHS	3	6	9	8	10	18	2484	816	3300
[IGHT(%)	NCBS	0	6 <u>6</u>	66	0	60	60	486	3457	3953
LIGHT(%)	NDAT	0	21	21	0	24	24	329	531	860
LIGHT(%)	NSTA	0	16	16	0	12	12	203	201	404
LIGHT(%)	_NPRJ	0	10	10	0	12	12	52	42	91_
LIGHT(%)	NDIS	0	1	1	0	3	3	12	7	18
LIGHT(%)	MTHS	0	7	7	0	17	17	335	494	829
				2444						
TURBIDIT	NOBS	0	24440	24440	0	14708	14708	0	22258	22258
TURBIDIT	NOAT	0	23815	23815	0	14555	14555	0	10580	10580
TURBIDIT	_NSTA		904	904		350	350_	<u> </u>	762	752_
TURBIDIT	NPRU	0	201	201	0	199	199	0	171	171
TURBIDIT	NDIS	0	30	30	0	28	28	0	25	25
TURBIDIT	MTHS	0	24945	24945	0	12907	12907	o	19675	19575
SUSP SOL	NOBS	a	12054	12054	а	5766	5766	0	10669	10669
SUSP SOL		0		11470	0	5672	5672	o		
SUSP SOL	NDAT_ NSTA	- 0	11470 586	686		264	264		<u> 4234</u> 429	<u> 1234</u> 429
SUSP 50L	NPRJ	0	168	168	0	169	169	0	116	116
SUSP_SOL_	NDIS	Ö	29	29	0	26	26	0	21	21_
SUSPISOL	MTHS	<u>_</u>	18422	18422	<u>v</u>	8277	8277		8401	8401
JUS. 30L	W 1173	J	10422		J	0211	02//	•	0401	0401
OXYGEN	NOBS	я	42216	42224	18	29216	29234	62021	13948	100050
DXYGEN	NDAT	3	33919	33922	5		26112	1494	17465	18959
DXYGEN	NSTA	1	1062	1063	2	412	414	482	1051	1533
DXYGEN	NPRJ	į	212	212	ī	217	217_	108	191	216
OXYGEN	NDIS	1	30	30		29	29	27	29	29
OXYGEN	MTHS	5	40323	40328	8	22191	22199	2668	31533	34201
FLOW	NOBS	7934	24977	32911	1447	15753	17200	0	1468	1468
FLQW	NOAT	7933	23692	31625	1447	15173	16620	0	1373	1373
FLOW	NSTA	590	533	<u>1123</u>	108	268	376	0	93	93
FLOW	NPRJ	106	156	185	106	175	210	0	35	35
FLOW	NDIS	27	30	31	27	25	30	0	17	17
FLOW	MTHS	6454	22028	28482	1174	14345	15519		1975	1975

Thus, it will not be necessary in Phase II to rely exclusively upon data from the EPA/NES for assessing relationships among within-pool measures of trophic state. The stringent water quality and flow sampling program requirements required for estimation of nutrient budgets and time limitations of this project suggest, however, that EPA/NES data be used exclusively for evaluating nutrient loading models.

PART X: SED - SEDIMENTATION DATA

71. The seventh major file group describes sedimentation characteristics of CE reservoirs. It contains the following elements:

SED.sheets - Sedimentation Survey Sheets
SED.RATES - Sedimentation Rate File

This information has been derived from a collection of sediment survey data for U. S. reservoirs compiled in 1975 by the Agricultural Research Service of the U. S. Department of Agriculture 10,12. A total of 84 CE projects in the central project list were included in that compilation. These are identified by the sedimentation survey key in the LISTS.CPL file (Table 8).

- 72. SED.sheets consists of a collection of the most recent sedimentation survey sheets contained in the appendix to the U. S. Department of Agriculture (USDA) compilation 12. These sheets contain detailed information on project location, morphometry, hydrology, as well as sedimentation. An example is given in Table 32. Sheets have been assembled in a loose-leaf notebook, identified, and arranged by district and project code.
- 73. SED.RATES is a file containing the most recent estimates of sedimentation rates for each of the 84 projects located in the USDA compilation. The format of this file is given in Table 33. Many of the sedimentation rate measurements antedate the water quality file. For 45 projects, the most recent survey data available were taken during or before 1965. Rate estimates for some projects, however, will be useful for testing relationships between sedimentation rate and nutrient trapping efficiency during Phase II of this study.

Table 32
Sample Sedimentation Survey Sheet

	ERVOIR SEDIM	ENT	CANTON L	AFF		U. S. DEPARTME! SOIL CON	NT OF AGRICULTURE SERVATION SERVICE
	A SUMMART			AME OF RESERVOIR		46-13b	_
						DATA SHE	IT NO.
	L OWNER COTT	s of Engine	ers 2 51	REAM NOTTH	Canadian	J. STATE Oklah	084
₹ [4. SEC272833 TM	P. 19N RANG	E 13W S. N		ton 2 N		ine
_[7. LAT36 '05 '	"LONG 98"	36 " " 1 "	OP OF DAM ELEVATI	ON 1648.0	9. SPILLWAY CREST	ELEV. 1/1638 . 0
T	IQ. STORAGE ALLOCATION	11. ELEVATIO		ENAL II. (ACREFEET	IS. DATE STORAGE BEGAN
t	a. FLOOD CONTROL	1638.	0 15,	750 2	72,300	401,500	2/
ã.	& MULTIPLE USE						25 Jul 47
Œ b	e. POWER	3/ 1615.	·	36A	AZ / ZA	100 100	16. DATE NOR-
	A WATER SUPPLY	3/ 1013.	4 0.	360 I	06,450	129,200	MAL OPER BEGA
	. CONSERVATION	3/ 1596.	- 	340	22.750	22,750	4 Jul 48
	& INACTIVE	3/ 2390.			22,730	22, / 30	- • Jur ••
L	7. LENGTH OF RES	FENCIE	13.1	MALES AV AND	TH OF RESERVO	• 1.3	WILE:
-	A TOTAL DRAINAG		12.483		LAN ANNUAL PRE		
36		CONTRIBUTING AR			EAN ANNUAL RUN		8 yrs) NCHE
Š	so LENGTH 30		V. WOTH 40		CAN ANNUAL RUN		4C. F 7
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- 1	July 1947		Range (DD 44	15,750	401,500	2.15
-	6/May 1953	5.83 5.83	Range (D D 22	15,750	390,800	2.10
- }	5/Oct 1959	6.42 12.25	Range (DD 22	15,750	385,900	2.07
- 1	Sept 1966	6.92 19.17	Range (D() 25	15,700	383,300	2. 06
1			ļ				<u> </u>
-	ZE DATE OF	34. PERIOD	38. PERIOD	WATER NELOW.	ACRE-SEET	16. WATER INFL	TO DATE, ACFT
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-			<u> </u>				i
- }	May 1953	20.05	288,890	540,420	1,684,200		1,684,200
į	Oct 1959	19.51	162,760	422,930	1.044.900		2,729,100
اځ	Sept 1966	18.69	99,170	159,390	586, 260	178,160	3,415,360
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	'		İ		<u> </u>	L	L
SHIRVEY	M. DATE OF	37. PERIC	D CAPACITY LO	SS. ACRE-FEET	IR TOTAL SE	D. DEPOSITS TO D	ATE. ACRE-FEET
3	SURVEY	L PERIOD TOTAL	B. AV. ANNUAL	L PER SQ. WI. YEAR	A TOTAL TO DAT	E D. AV. ANNUAL	C PER SQ. WI TEA
ſ	May 1953	10 600	1,834	0.202	10 600		
- }	May 1953 Oct 1959	10,690 4,880	760	0.302	10,690	1.834	0.302
- [Sept 1966	2,660	384	0.125	15,570	1,271	0.209
- [34hc 1300	2,000	304	0.063	18, 230	951	0.156
1			ĺ	1	7/18,500	<u>7</u> / 965	7/0.159
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			466.4	466.4	0.457	3.66 3.00	
	Ver 1052	1 7A A) 40D.4	0.457	2.66 7.224	7,212
	May 1953	70.9			A 23.7		
	Oct 1959	56.2	65.3	255.8	1 1	3.88 1,795	5.138

(Continued)

Table 32 (Concluded)

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Excludes 4,642 sq. mi. of watershed not contributing to sediment; 1735 sq. mi. above Fort Supply Dam and 25 sq. mi. surface area of Canton Lake.

To provide a uniform presentation of data from all sedimentation resurveys of

Canton Lake, data summaries for the 1953 and 1959 resurveys have been revised to conform with present instructions.

^{7/} Includes above crest deposits.

⁴⁴ AGENCY MAKING SURVEY U. S. Army Engineer District, Tulsa 46 AGENCY SUPPLYING DATA U. S. Army Engineer District, Tulsa 50. DATE October 1970

Table 33

Record Format of the SED.RATES File

/*****	•	/*****	•	•	`•	•	•	•	•	•	•	•	•	•
/*************************************	/* SED. RATES FILE STRUCTURE (LENGTH#80)	**************************************	/* DISTRICT CODE	/* RESERVOIR CODE	/* USDA RESER CODE FOR SED. DATA	/* TOTAL DRAINAGE AREA (MI2)	/* NET DRAINAGE AREA (M12)	/* YEAR OF LAST SEDIM. SURVEY	/* YEARS FROM PREVIOUS SURVEY	/* VOLUME (ACRE-FEET)	/* HYDRAULIC RES TIME (YEARS)	/* SED. ACC. (AC-FT/MI2-YR)	/* SED. ACC. (TONS/M12-YR)	/* COMMENTS
			.66, DId	666.214	,666669,) I d	P1C'222222	PIC'222222	PIC, 822,	PIB'222V.99'	PIC'22222227	PIC'222V.999'	PIC'ZZV. 999'	PIC'2222V.9'	CHAR(17)
	DECLARE 1 RATES_RECORD		2 015	2 RES	2 SEDREF	2 DA 101	2 DANET	2 YEAR	2 PERIOD	2 VOL	2 7	2 SEDA	2 SEDM	2 COM

PART XI: NES - EPA NATIONAL EUTROPHICATION SURVEY DATA

74. The eighth file group consists of data and reports obtained from the EPA National Eutrophication Survey 4,9, exclusive of the water quality, hydrologic, and drainage area data described in previous sections. It consists of the following elements:

NES.reports - EPA/NES Working Papers

NES.COMP - Compendium of Lake and Reservoir Data

NES.SUM - Compendium Summary

This file group contains information on 108 CE projects as well as the other 704 lakes and reservoirs which were sampled by the EPA/NES throughout the U. S. Besides providing detailed information on point-source nutrient loadings to CE projects needed for nutrient budget estimation in Phase II, it provides a basis for comparisons of lakes and reservoirs with respect to morphometric, hydrologic, and nutrient loading response characteristics. Such comparisons, in turn, can provide means of interpreting the performance of lake nutrient loading models in reservoirs.

- 75. During 1972-75, the EPA conducted a systematic survey of 812 lakes and reservoirs in the U. S. The original objective of the National Eutrophication Survey was to develop a data base for assessing the impacts of point-source nutrient discharges on the trophic conditions of lakes and reservoirs. The NES produced a series of working papers summarizing and interpreting the results for each impoundment or lake monitored. Results have also been summarized in a compendium format and published in four volumes 23.
- 76. NES.reports consists of the collection of working papers describing NES surveys and results in each of 108 CE projects. Each report has been referenced to the data base by district and reservoir code.

 Maps extracted from the reports have been included in the WATS.maps file.
- 77. NES.COMP is a computer file containing a nationwide summary of NES data for 775 lakes and reservoirs, obtained from the Corvallis laboratory of the EPA⁴. A sample printout of data from the file is given in Table 34. Similar printouts have been produced for all CE

projects in the compendium file and arranged in a notebook by district and project code. The compendium contains data for 106 out of 108 CE projects sampled by the EPA/NES.

- 78. NES.SUM is a summary of the NES.COMP file, with a few modifications. The format of the summary file (Table 35) is more convenient for input to statistical analysis programs, since one record is used for each lake or reservoir. A number of missing latitude and longitude coordinates have been added, based upon estimates derived from USGS Hydrologic Unit Maps⁶. Each lake or reservoir has also been referenced by CE division to provide a basis for regional contrasts of lake and reservoir characteristics.
- 79. A few simple analyses have been done to provide descriptions of types and amounts of data contained in the NES.SUM file. The regional distribution of lakes and reservoirs described in the file is depicted in Figure 5. A breakdown of impoundment numbers as a function of trophic state, impoundment type, and CE division is given in Table 36. The numbers of CE projects are listed as a function of division and trophic state in Table 37.
- 80. The results of preliminary lake/reservoir comparisons which have been made using data from the NES compendium tape are summarized in Table 38. Three groups of impoundments have been compared: natural lakes (N=310); non-CE reservoirs (N=359); and CE reservoirs (N=106). The stratification of thirty-six original and composite variables across these groups has been studied using the BMDP-77 computer program.

 Within-group means and Analysis of Variance (ANOVA) statistics are listed in Table 38. Detailed results with histograms are presented in a previous report.

- 81. While the scope of this report precludes detailed interpretations of the data, a few comments on these results seem appropriate:
 - a. At the 95% significance level, differences across groups are evident in all cases except longitude, conductivity, phosphorus retention coefficient, nitrogen retention coefficient, and the second Vollenweider phosphorus loading statistic²⁵.

- b. Strongest differences across groups are apparent for drainage area (F=77.5), drainage area/surface area (F=73.6), outflow rate (F=60.7), and drainage area/ maximum depth (F=53.4).
- c. Reservoirs have higher potential phosphorus concentrations, based upon phosphorus loading and the Vollenweider statistics, but lower observed phosphorus and chlorophyll-a concentrations than natural lakes. This is an indication that the Vollenweider statistics may give biased predictions in reservoirs (i.e., over-predict loading impact).
- d. Reservoirs have less transparency, despite less chlorophyll-a. This is probably an effect of mineral turbidity in reservoirs.
- e. N/P loading ratios are somewhat lower for reservoirs than for natural lakes; the reverse is true, however, for inorganic N/dissolved P ratios measured during the summer within the impoundments.
- f. The composite statistic (Secchi depth/mean depth) is strongly stratified across groups (F=44.8). Assuming that the depth of the photic zone is roughly twice the Secchi depth, the means in Table 38 indicate that typically 62% of the volume of lakes is available for photosynthesis, compared with 30% in the case of CE reservoirs. Reservoirs probably have greater shoreline development, however, and may be more influenced by photosynthetic processes occurring in littoral zones.
- g. While a 4-degree difference is evident in the average latitude of CE reservoirs as compared with lakes, a detailed look at Figure 5 reveals that the distribution of NES lakes is bimodal, with clusters in the North (primarily Minnesota, Wisconsin, Michigan, and Maine) and in the extreme South (Florida). The maximum reservoir density occurs between these extremes.

Because of the strong regionality of the lake vs. reservoir distributions evident in Figure 5, it is difficult to separate the effects of impoundment type from those of region with analyses of the type described above. Thus, in future, more complete analyses, it will be important to control for regional differences by comparing subsets of lakes and reservoirs within defined regions.

Table 34

Sample EPA/NES Compendium Printout

•		
•		

		REDIAN TOTAL N (MG/L) 0.640				TOTAL LOADING (RG/FB) 48695.		(KG/SQ KE/TR) 367. 367. 769. 558. 1558. 172. 558.
GIMA	RETENTION TIME (DATS) 20.0	HEDIAH J INONG H (MG/L) O.430	(10, 5/73) P	COUNT 287 202 200 119 119 135	978	HOM-POLKT SOUNCE TOTAL (KG/TR) 42750. 1801020.		(KG/SQ KR/TB) 115. 115. 115. 116. 117. 119. 119. 119. 119. 119. 119. 119
COMPANDIUM OF NATIONAL BUTBOPHICATION SUKTRY LAKES IN MEST VINGINA (ARSOTWOPHIC) Working paper No. 470, WILS ACCESSION NO. PS-251 119/48	TOTAL IMPLOM (CRS) 73,200	HEDIAN (1) ORTHO P(MG/L) 0.005	T SAMPLING TIME (7/28/73) P	10/ 5/73 GENERA AMACISTIS (RICROCTSTIS) SAREDUS TOTO PROBREDITOR STITS CELLATES OTHER			DING BATE	DEAN TOTAL N. (10/4) 1.001 1.001 1.24
COMPENDIM OF NATIONAL BUTROPHICATION SURTR LAKES IN ME (RESOTNOPHIC) MORKING PAPER NO. 470, NTIS ACCESSION NO. PH-251 118/AB	A CAN DEPTH (MLTERS) 17.4	SC REDIAM TOTAL P (MG/L) 0.006	LINITING BUTPIENT AT SAMPLING TIRE (4/23/73) P (7/26/73) P	COUNT GREEA COUNT GREEA COUNT GREEA COUNT GREEA COUNT OF	208 TOTAL	POINT SOURCE SEPTIC TAKES (KG/PR) 15. 650.	LAKE SURFACE AREA LOADING BATE {G/SC B/TR} 200.2	MEAN TOTAL P (NG/L) 0.020 0.159 0.056 0.077 0.015
IS OF NATIONAL BUTROR (BESOTROPHIC) APER NO. 470, NTES	SURFACE AREA (SU KH) 7.08	NEAN SECCHI DISC (ARTERS) 3.1		PLAMKTON DATA 7/28/73 CEMERA GIRNOLMIUM STRANC DIATON A NAT STRONE SHU S PLAGELLATE S		E) POINT SOUNCE INDUSTRIAL (KG/TR)	PENCENT LARE SETTENTION 9.	DRAINAGE AREA (SQ KR) 2447.5 4.3 4.3 9.7 207.2 138.6
	DEATHAGE AREA (SC KR) bt 3537.90	AL CHARACTEMISTICS REDIAN COMBUCTIVITY (UNHOS) 82.	STICS (LAKE) ALGAL ASSAT COMTROL YIZED (MG/L-DRY 4T) 0.1	SUMMARY OF PHYTOPLAMETOR DATA COUST GERERA 104 GERRODISTUM 57 GERRAGE DIATO 17 ARKINGOEROP 10 PLAGELEATES 11 OTHER	212 TUTAL	G CHARACIERISTICS(LAKE) POINT SUGNCE POINT BUNICIPAL (RG/TE) IN 15985. **	(s)	MT EXPORT SEAM PLOM (CRS) (CRS
HAME - TYGANT MESERVOLZ Cognyy - Bambour, Taylor Storet No 5404	I. MORPHOMETRY LAKE TYPE IMPOUNDMENT	II. PHESICAL AND CHEMICAL CHANACTEMISTICS SEDIN NEDLIN ALKALISTI (MG/L) CONDUCTIVITY (MHOS) 10.	III. BIOLOGICAL CARRACTERISTICS (LAKE) NEM CHODOPHILL & ALGLE ASSAT (19/1) 1.2	SURMAR! 4/23/73 FLACELLATES PRACERIATE PRINATE DIATORS ANYICULA OTHER	TO TAL	IF. HUTELLY LOADING CHARACTERISTICS(LAKE) A. IMPUT POINT SOUNCE PC PHOSPHORES HURGIDAL (KG/TE) IS MITROGRAM 15985. D. AUTROGRAM 15985.	15	STRAM MAR. SERVING STRAM MAR. SER. SER. SER. SER. SER. SER. SER. SE

CE RESERFOIR BURBER: 393

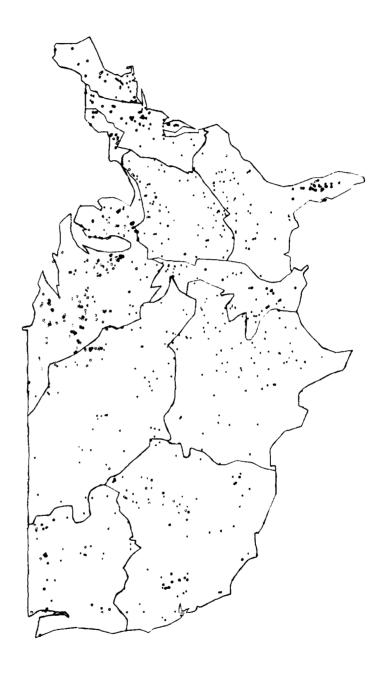
Table 35

Record Format of the NES.SUM File

;			/****
DECLARE 1 NESSUM_REC		/* NES.SUM FILE STRUCTURE (LENGTH=225)	`
		*****	/*****
2 DIV	PIC'29'	/* CE DIVISION	/•
2 015	PIC'29'	/* CE DISTRICT (CE PROJ. DNLY)	•
2 RES	P1C, Z29,	/* CE PROJECT NUMBER	•
2 SEQ	PIC.229'	/* SEQUENCE NUMBER IN NES FILE	•
2 STORET	CHAR(4)	/* LAKE CODE USED IN STORET	/•
2 MKP	PIC'222'	/* NES WORKING PARPER NUMBER	•
2 NAME	CHAR(24)	/* LAKE NAME	/*
2 LATITUDE	PIC'222V.22'	/* LATITUDE (DEGREES/HUNDREDTHS)	•
2 LONGITUDE	PIC'222V.22'	/* LONGITUDE (DEGREES/HUNDREDTHS)	•
2 TYPE	,6,01d	/* TYPE CODE (1=RES., O=NAT.LAKE)	7. — —
2 TROPHIC	CHAR(2)	/* TROPHIC STATE CODE	/•
2 SAREA	P1C'(7)-V.ZZ'	/* SURFACE AREA (KM2)	•
2 DAREA	PIC'(7)-V.22'	/* DRAINAGE AREA (KM2)	/•
2 ZMEAN	PIC'V.22'	/* MEAN DEPTH (M)	•
2 ZMAX	PIC'V.22'	/* MAXIMUM DEPTH (M)	•
2 RESTIME	PIC'V.222Z'	/* HYD. RESIDENCE TIME (YRS)	7.
2 PH	PIC'(4)-V.222'	/* MEDIAN PH	1.
2 ALK	PIC'(4)-V.222'	/* MEDIAN ALKALINITY (MG/L)	•
2 COND	PIC'(4)-V.222'	/* MEDIAN CONDUCTIVITY (MMHOS)	7.
2 TOTP	PIC'(4)-V.222'	/* MEDIAN TOTAL P (MG/L)	/•
2 D1 SP	PIC'(4)-V.222'	/* MEDIAN DISSOLVED P (MG/L)	•
2 TOTN	PIC'(4)-V.ZZZ'	/* MEDIAN TOTAL N (MG/L)	7.
2 INDRGN	PIC' (4)-V. 222'	/* MEDIAN INDRGANIC N (MG/L)	•
2 SECCHI	PIC'(4)-V.222'	/* MEAN SECCHI DEPTH (M)	•
2 CHLA	PIC'(4)-V.ZZZ'	/* MEAN CHLOROPHYLL-A (MMG/L)	7
2 ASSAY	PIC'(4)-V.ZZZ'	/* ALGAL ASSAY CONTROL YIELD(MG/L)	:
2 LP	PIC'(4)-V.222'	/* TOTAL P LOAD (G/M2-YR)	•
2 RP	PIC'(4)-V.ZZZ'	اعم	*
2 FNPSP	PIC'(4)-V.ZZZ'	₫	•
2 LN	PIC'(4)-V.ZZZ'	/* TOTAL N LOAD (G/M2-YR)	•
2 RN	PIC' (4)-V.222'	/* TOTAL N RETENT! ON COEF	7.
2 FNPSN	PIC'(4)-V.ZZZ'	/* FRACTION NLOAD NON-POINT	•
2 LIMNUT	CHAR(3)	/* LIMITING NUTRIENT CODES	:
		/* FIRST THREE SAMPLING DATES	*
2 UNUSED	CHAR(3)	/+ BLANK	•

Figure 5

Regional Distribution of Lakes and Reservoirs Contained in the EPA National Eutrophication Survey Compendium



WALKER (WILLIAM W) JR CONCORD MA F/6 13/2 EMPIRICAL METHODS FOR PREDICTING EUTROPHICATION IN IMPOUNDMENT—ETC(U) MAY 81 W MALKER DACUS9-78-C-0053 AD-A101 553 WES-TR-E-81-9-1 NL. UNCLASSIFIED 2 or 4

Table 36

Summary of Impoundments in EPA National Eutrophication Survey Compendium by Region, Trophic State, and Impoundment Type

CE DIVISION	0L 160- TROPHIC	MESO- TROPHIC	EU- TROPHIC	HYPEREU- TROPHIC	ОТНЕR ^а	TOTAL
New England	9/0/9	3/1	2/18	1	0/0	10/23
North Atlantic	1/0	4/8	8/31	0/0	0/0	13/39
South Atlantic	0/0	4/3	24/30	0//	3/10	38/43
Ohio River	0/0	2/13	11/49	0/0	9/0	13/67
North Central	1/9	22/1	118/43	1//	0/9	159/46
Lower Mississippi Val	Valley 0/0	0/2	10/29	2/0	0/2	12/33
South West	0/0	0/16	0/54	0/0	6/0	6//0
Missouri River	0/1	9/2	18/41	1/1	1/0	19/55
North Pacific	5/2	5/5	4/17	1/0	8/0	23/24
South Pacific	9/3	4/12	9/34	2/0	1/5	25/54
TOTAL	26/7	44/66	204/346	20/6	18/38	312/463

a OTHER = combination of two or more trophic states

b Number of natural lakes/Number of reservoirs

Table 37

Summary of CE Impoundments in EPA National Eutrophication Survey Compendium by CE Division and Trophic State

CE DIVISION	OL 1GO- Trophic	MESO- TROPHIC	EU- TROPHIC	HYPEREU- TROPHIC	OTHER ^a	TOTAL NES	GRAND ^b TOTAL
New England	0	0	0	0	0	0	22
North Atlantic	0	2	-	0	0	က	15
South Atlantic	0	_	4	0	2	7	24
Ohio River	0	4	19	0	2	25	64
North Central	0	_	က	0	0	4	91
Lower Mississippi Valley	0	(1	=	0	0	13	11
South West	0	89	23	0	2	33	99
Missouri River	0	-	12	,_	_	15	31
North Pacific	_	_	_	0	0	က	27
South Pacific	0	1	-	0	-	3	19
TOTAL	~	21	75	-	æ	106	599

a OTHER = combination of two or more trophic states

b GRAND TOTAL = number of impoundments in LISTS.CPL file

Table 38 Summary of Lake/Reservoir Comparisons Derived from EPA/NES Compendium

		WITHI	N-GROUP	MEANS	ANOVI	RESULTS
		(N=309)	(N=360)	(N=106)		
c*	Variable	Nat.	Non-CE	CE		Prob
_	Astrante	Lakes	Reserv.	Reserv.	F	(greater F)
A	Latitude (degrees N)	41.6	39.0	37.6	34.8	< .0001
A	Longitude (degrees W)	91.7	93.6	92.3	1.9	.16
G	Drainage Area (km²)	222.	1358.	3228.	77.5	< .0001
G	Surface Area (km²)	5.6	8.6	34.5	44.4	
G	Volume (km ² m)	27.3	50.8	239.	36.4	17
G	Mean Depth (m)	4.5	5.7	6.9	10.4	**
G	Maxumum Depth (m)	10.7	15.8	19.8	18.8	77
G	Hydraulic Res. Time (yr)		. 23	.37	23.5	11
G	Overflow Rate (m/yr)	6.5	25.	19.	40.9	**
G	Outflow Rate (km ² m/yr)	47.9	236.	650.	60.7	16
G	Dr. Area/ Surf. Area	33.	156.	93.	73.6	11
G	Dr. Area/Volume(1/m)	6.6	26.	13.	39.5	11
G	Maximum Depth/Mean Depth	2.5	2.8	2.9	7.3	.0008
G	Relative Depth	.40	.47	. 30	8.6	.0002
G	Surf A/ Max Depth	.53	. 56	1.7	24.6	< .0001
G	Dr. Area/Max Depth	20.	86.	162.	53.4	
A	ÞÆ	8.06	7.74	7.63	24.1	<.0001
G	Alkalinity (mg/l)	87.	63.	65.	8.6	.0002
G	Conductivity (UMhos/cm)	253.	214.	208.	2.4	.0950
G	Total Phosphorus (mg/l)	.054	.053	.039	3.6	.0268
G	Dissolved P (mg/l)	.021	.018	.011	9.5	< .0001
G	Inorganic Nitrogen (mg/l).20	.26	. 30	9.7	< .0001
G	Secchi Depth (m)	1.4	1.2	1.1	7.7	.0005
G	Chlorophyll-a (mg/l)	14.	10.	8.9	11.4	< .0001
G	Algal Assay Yld (mg/l)	2.5	2.2	1.3	4.0	.0194
G	P Loading (g/m²-yr)	.87	2.9	1.7	29.1	<.0001
A	P Retention Coef.	. 36	. 35	.40	0.7	.51
A	NPS Load Fraction - P	.72	.80	.81	8.4	.0002
G	N Loading (g/m²-yr)	18.	45.	28.	22.6	<.0001
A	N Retention Coef.	. 24	. 20	.17	2.5	.081
A	NPS Load Fraction - N	.87	.93	. 96	18.7	<.0001
G	N Load/P Load	20.	16.	16.	8.0	.0004
G	Inorg N/ Diss. P	9.1	14.	26.	29.4	<.0001
Ğ	+Vollenweider Stat. 1	.31	.56	.42	15.2	1.0001
Ğ		.056	.067	.057	1.9	.1586
G	Secchi D/ Mean Depth	.31	. 20	.15	44.8	<.0001

^{*} C = Code for Type of Mean (A = Arithmetic, G = Geometric) + Statistics for Assessing Phosphorus Loading Impacts on Lake Eutrophication; Stat. 1 = L_p/Q_s . 5-(ref.25); Stat. 2 = $(L_p/Q_s)/(1 + \sqrt{\tau})$ - (ref.26)

PART XII: NUMERICAL CHARACTERIZATION OF RESERVOIR HYPSOGRAPHIC CURVES

Introduction

- 82. Estimates of reservoir volume and area variations with elevation are required for computing volume-averaged concentrations and pool hydraulic residence times. This information is generally available in the form of a table which lists area at and volume below specific elevations. Morphometry tables have been compiled for most of the 303 CE projects in the data base. This paper describes numerical investigations of these tables, specifically covering the relative accuracies of various curve-fitting and interpolation techniques. Results will be used to design methods for summarizing, storing, and applying morphometric information in other phases of the project. Results are also relevant to other aspects of reservoir management, specifically including the estimation of reservoir volumes and sedimentation rates from range survey or contour area data.
- 83. This study has been performed prior to completion of the project morphometry file. A subset of data has been selected which covers 147 projects, each with at least five listed elevations and without obvious errors (such as decreasing areas or volumes with increasing elevation). A total of 1285 elevation/area/volume data points have been compiled for these 147 projects from various sources. Results of this study are summarized below. Details can be found in a working paper submitted as a progress report under this contract²⁶.

Approach

84. The objective is to design and evaluate methods for estimating area and volume at any elevation, given information available for specific elevations. Methods can generally be classified as curve-fitting or interpolating. Accuracies of these methods can be assessed by comparing observations and predictions of the following:

a. $\hat{V}(V)$ = volume estimated from volume/elevation points

b. A(V) = area estimated from volume/elevation points

c. A(A) = area estimated from area/elevation points

 \underline{d} . $\Delta V(A)$ = incremental volume estimated from area/elevation points

Statistics a and c are simple curve-fitting or interpolating problems.

Statistic b involves differentiation of the volume curve to estimate area:

$$\hat{A}(V) = \frac{\partial V}{\partial Z} \tag{1}$$

where

Z is the total depth, ft

Statistic d involves integration of the area curve between specific depth limits (\mathbf{Z}_1 and \mathbf{Z}_2) to estimate incremental volume:

$$\hat{\Delta V}(A) = \int_{Z_1}^{Z_2} A dZ$$
 (2)

85. In testing each method, a jackknife procedure ²⁷ has been used to estimate the above statistics for internal elevation points (i.e., tests are not made for the top and bottom listed elevations in each project, although these elevations are used in the fitting or interpolating process). In applying the jackknife, information from the point being tested is not used in estimating the parameters of the predictive function. For instance, estimates of area or volume at the second listed elevation are derived exclusively from information in the first and third through last listed elevations.

86. Reported values and predictions are compared using the following error statistic:

$$D = \log_{e} \left[\frac{2Y}{Y + \hat{Y}} \right] \tag{3}$$

where

 $Y = reported value (V, A, or \Delta V)$

Y = estimated value

D = error statistic

For errors of the magnitude studied here, the value of D approaches the difference between the reported and predicted values, expressed as a fraction of their average. In most cases, the D statistic seems to have reasonably symmetric error distributions. For each of the four types of area/volume comparisons, estimates of bias and standard error in D have been derived for a variety of predictive methods, as described below.

Curve-Fitting Schemes

87. A single-term power function has some useful properties for fitting these types of curves and is the simplest of the methods evaluated:

$$\hat{\mathbf{v}} = \mathbf{c}_{\mathbf{v}}^{\mathbf{b}_{\mathbf{v}}} \tag{4}$$

$$\hat{A} = c_a z^{b_a} \tag{5}$$

$$Z = E - E \tag{6}$$

where

 c_{v} , c_{a} , b_{v} , b_{a} = empirical parameters

z = total depth (ft)

E = elevation (ft, msl)

 E_{O} = elevation at V=A=0 (ft, msl)

Model parameters can be estimated using linear regression by transforming V, A, and Z values to logarithms. The following equalities should hold if the model is valid for a particular reservoir:

$$\frac{\partial V}{\partial Z} = b_{V} c_{V} Z^{b_{V} - 1} = A \tag{7}$$

$$\therefore c_a = b_v c_v \tag{8}$$

$$b_a = b_v - 1 \tag{9}$$

Equations (8) and (9) can be used to test the consistency of the volume and area curves. The slopes of volume and area vs. total depth on a

log/log plot should differ by 1.0. Dividing equation (4) by equation (5) yields the following:

$$\left(\frac{\hat{\mathbf{v}}}{\mathbf{A}}\right) = \frac{\mathbf{c}_{\mathbf{v}}}{\mathbf{c}_{\mathbf{a}}} \ \mathbf{z}^{\mathbf{b}_{\mathbf{v}} - \mathbf{b}_{\mathbf{a}}} = \mathbf{b}_{\mathbf{v}} \mathbf{z} \tag{10}$$

If the basic model holds, the ratio of volume to area (or mean depth) should be proportional to the total depth. Thus, the model can be tested through regression analysis of the following equation:

$$\left(\frac{\hat{\mathbf{v}}}{\mathbf{A}}\right) = \mathbf{c}_{\mathbf{z}} \mathbf{z}^{\mathbf{b}_{\mathbf{z}}} \tag{11}$$

A t-test can be applied to the mean and standard error $\mathbf{b}_{\mathbf{z}}$ within each project to determine whether the estimate is significantly different from 1.0.

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88. In testing the power function model, the parameters in equations (4), (5), and (11) have been estimated for each of 147 reservoirs. The statistical distributions of the optimal slope parameters (b_v , b_a , b_z) are shown in Figure 6 on log-normal probability scales. Median values are 2.97, 1.97, and 0.97, respectively. Thus, in the "typical" reservoir, volume and area increase approximately as the cube and square of total depth, respectively. This corresponds to the solid geometry of an inverted cone or pyramid. About 10% of the projects have b_v values exceeding 4 and 4% have b_v values less than 2. The parameters b_a and b_v contain roughly the same information as the statistically-defined "lake form" proposed by Hakanson 28.

89. Based upon t-tests, the b_z parameter differs significantly (p=.05) from 1.0 in about 35% of the projects. This means that the single-term power function model fits about two thirds of the projects. In the remaining one third, the slope parameters b_v and b_a are inconsistent and/or variable with depth.

90. Table 39 lists error statistics for this model. Estimates of the first $(\hat{V}(V))$ and third $(\hat{A}(A))$ statistics are derived directly from equations (4) and (5), respectively. Areas are estimated from volume

Table 39

Evaluation of the Power Function Model

Statistic	Gross* Standard Error	Median** Standard Error
ŷ(v)	.097	.062
Â(V)	.115	.081
Â(A)	.097	.062
$\Delta \hat{\mathbf{v}}(\mathbf{a})$.177	.081

^{*} estimated from mean-squared D value (equation (3))

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^{**} median of within-project mean-squared D values

curves according to equation (7). Changes in volume within various strata are estimated from area curves according to:

$$\Delta \hat{\mathbf{V}}(\mathbf{A}) = \sum_{z=1}^{z} \mathbf{A} dz = \sum_{z=1}^{z} \mathbf{c}_{\mathbf{a}} z^{\mathbf{b}} dz$$
 (12)

$$=\frac{\hat{A}_2 Z_2 - \hat{A}_1 Z_1}{b_a + 1} \tag{13}$$

Standard errors of D range from .097 $(\hat{V}(V))$ to .177 $(\Delta \hat{V}(A))$. The higher standard error of $\Delta V(A)$ could be related to the fact that it is an incremental value which is more subject to measurement error on a percentage basis than is total volume or area. A D standard error of .097 corresponds roughly to a standard error of 10%, or to 95% confidence limits of \pm 20% in an estimated area or volume. The differences between the gross standard error and the median, within-project standard error reflects the skewness of the error distribution across projects, i.e., the model seems to fit some projects considerably better than others, as indicated by the b₂ distribution.

91. In order to improve upon the above model, variations in the slope parameters $\mathbf{b_v}$ and $\mathbf{b_a}$ with depth must be accounted for. The simplest way of doing this is to include higher-order terms in the regression equations:

$$\hat{\mathbf{v}}^{\star} = \sum_{i=0}^{m} \mathbf{c}_{i} \mathbf{Z}^{\star i} \tag{14}$$

$$\hat{A}^* = \sum_{i=0}^{m} d_i Z^{*i}$$
 (15)

where

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c_i, d_i = empirical coefficients (i=0, m)

* = superscript denoting log_10 transformation

m = maximum degree of polynomial

The error distributions of these functions have been evaluated for maximum degrees ranging from 1 to 5. For m=1, the scheme is equivalent

to the single-term power function model discussed above. For comparative purposes, linear polynomial functions have also been tested:

$$\hat{\mathbf{v}} = \sum_{i=0}^{m} c_{i} \mathbf{z}^{i} \tag{16}$$

$$\hat{A} = \sum_{i=0}^{m} d_i z^i \tag{17}$$

For each reservoir, the maximum degree of the polynomial has been limited to the minimum of m and the number of elevations in the table minus two.

92. The error statistics in Table 40 indicate that logarithmic polynomials are preferable to linear ones according to most criteria. Log transformation tends to linearize the relationships and renders them easier to fit with low-order polynomial terms. Some reduction in error is achieved by including quadratic and cubic terms in depth. Addition of fourth- and fifth-order terms, however, tends to increase estimation error, presumably because higher-order polynomials can have local minima and/or maxima between the fitted points. These are artifacts of the fitting process which can cause large estimation errors between the fitted points. Cubic polynomials apparently have about the best combination of flexibility and smoothness for these purposes and data densities.

Interpolation Schemes

93. Interpolation methods can be used as alternatives to the curve-fitting techniques described above. Interpolation essentially involves fitting different curves to different sections of each volume/area/elevation table. A variety of interpolation methods have been tested on the same data set used above 26. These involve different transformations of the volume and area points, including inverse power functions (first through fifth order) and logarithmic. Of the methods tested, one involving logarithmic transformations of volume, area, and total depth points has been shown to have the lowest error statistics 26. The errors, however, are essentially equivalent to the error

Table 40

Evaluation of Polynomial Functions

	Maximum	Gr	oss Standa	ard Error	
Transformation	Degree	ŷ(V)	Â(V)	Â(A)	$(\mathbf{A})\hat{\mathbf{V}}\Delta$
logarithmic	1	.097	.115	.101	.182
	2	.069	.083	.081	.166
	3	.062	.067	.081	.164
	4	.216	.292	.129	.173
	5	1.198	1.280	.534	.491
linear	1	.371	.615	.200	.281
	2	.249	.170	.134	.212
	3	.134	.088	.106	.196
	4	.150	.085	.111	.193
	5	.221	.136	.147	.265

characteristics of the best curve-fitting scheme (log/log cubic polynomials). Results suggest that either of these methods probably approaches the limits of data accuracy.

Conclusions

- 94. In one sense, numerical interpolation methods are preferable to fitted curves because the former are more flexible and do not rely strongly upon particular forms or curve shapes. Interpolation requires storage of and access to the entire table, however, as opposed to a few parameters in the case of a fitted function. Fitted curves also provide some smoothing of the entries in the table which may serve to filter errors.
- 95. Based upon relative errors, storage requirements, and computational considerations, log/log cubic polynomials seem to be the best alternative for summarizing hypsographic curves, given data of the type examined here. The approximate equivalence of the $\hat{V}(V)$ and $\hat{A}(V)$ error statistics indicates that storage of the parameters of the volume curve alone would be adequate as a basis for estimating both area and volume. Algebraic differentiation of the volume polynomial can be used to estimate area at any given depth. Thus, both the area and volume curves can be summarized by a total of four polynomial parameters according to the following scheme:

$$Z^* = \log_{10}(E - E_0) \tag{18}$$

$$V^* = \log_{10}(V) \tag{19}$$

$$A^* = \log_{10}(A) \tag{20}$$

$$V^* = c_0 + c_1 Z^* + c_2 Z^{*2} + c_3 Z^{*3}$$
 (21)

$$A = (c_1 + 2c_2 Z^* + 3c_3 Z^{*2}) V/(E - E_0)$$
 (22)

For cases in which data from only a few elevations are available and/or the quadratic or cubic terms do not add appreciably to accuracy (as assessed via stepwise polynomial regression), first- or second-order polynomials may be used.

96. Use of the method requires knowledge of the base elevation, E_{o} . If not available, it can be estimated approximately by extrapolating a plot of $V^{1/3}$ vs. E to the horizontal axis. Any error in E_{o} estimated in this way would be offset in subsequent estimation of the polynomial coefficients.

97. The same functions can be used in very data-limited situations in which only estimates of mean depth, maximum depth, and surface area are available. Approximate parameter estimates in this case are given by:

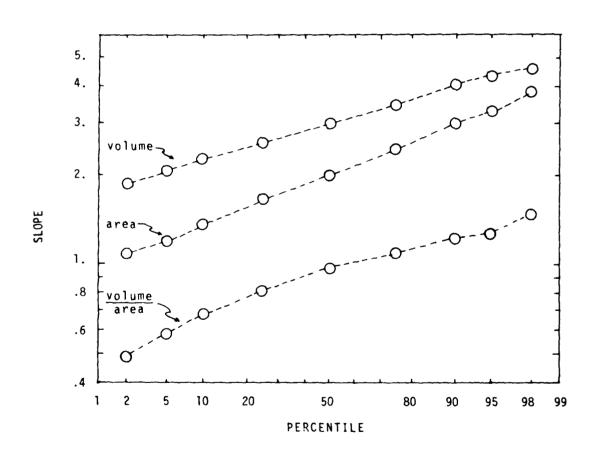
$$c_2 = c_3 = 0$$
 (23)

$$c_1 = Z_{\text{max}}/Z_{\text{mean}}$$
 (24)

$$c_0 = log_{10}(AZ_{mean}) - c_1 log_{10}(Z_{max})$$
 (25)

98. To insure that the fitted polynomial is not used outside of the range of data availability, maximum and minimum elevations should also be stored with the fitted coefficients. It will be necessary to test the fitted coefficients to insure that the areas estimated through differentiation (equation (22)) are positive and increasing with elevation throughout the application range.

Figure 6
Distributions of Volume and Area Slope Parameters



PART XIII: VARIABILITY OF TROPHIC STATE INDICATORS IN RESERVOIRS

Introduction

- 99. The development and testing of empirical eutrophication models for reservoirs requires averaging of water quality measurements over spatial and temporal scales. If within-pool water quality variations are not random with respect to date, station, or depth, then summary statistics for a given reservoir will depend to some extent upon the particular data-reduction method employed. The choice of reduction method may, in turn, influence conclusions regarding the adequacy of existing models as well as the parameter estimates of any new models which may be developed.
- 100. There is no standard data reduction procedure which can be used prior to model development, testing, or application. Methods have included, for example: (1) taking the median or mean of all within-pool observations ²³; (2) sequential averaging over depths, stations, and dates ²⁹; (3) seasonal averaging within specific depth ranges ³⁰; and (4) various weighted-averaging schemes which reflect morphometric characteristics. As compared with natural lakes, many reservoirs pose special data reduction problems due to extreme spatial and/or temporal variations in conditions.
- 101. In this section, a subset of the current CE water quality data base is analyzed in order to describe spatial and temporal variations in trophic state indicators within a group of reservoirs. The analysis covers spatial relationships, seasonal relationships, variance components, and error estimation. Implications of the results are discussed with respect to the design of monitoring programs and use of the data in model development and evaluation. Details on many of the procedures used and results discussed below can be found elsewhere 31,32

Data Base

102. EPA National Eutrophication Survey (NES) 9 data from 484 stations located within 108 CE projects have been used as a basis for this analysis. The relatively uniform sampling program designs used by the NES provide data which are suitable for statistical treatment. One drawback, however, is that under this program, reservoirs were typically sampled only three times during one growing season. In Phase II of this project, there are plans to examine data from other agencies, which, in many cases, are more intensive and/or cover longer periods.

103. Surface total phosphorus, Secchi depth, and chlorophyll-a values have been expressed in terms of Carlson's Trophic State Indices (I_p , I_T and I_B , respectively) 30 :

$$I_p = 4.2 + 33.2 \log_{10} P$$
 (26)

$$I_{T} = 60 - 33.2 \log_{10} Z_{s}$$
 (27)

$$I_B = 30.6 + 22.6 \log_{10} B$$
 (28)

where

 $P = \text{total phosphorus concentration } (mg/m^3)$

 $Z_g = Secchi depth (m)$

B = chlorophyll-a concentration (mg/m³)

The indices are calibrated such that the three versions are equivalent, on the average, when applied to midsummer, epilimnetic data from northern, natural lakes. Expression of measurements on the above scales tends to reduce the skewness in the distributions of the variables and provides benchmarks for assessing reservoir trophic state relationships in comparison to those typical of natural lakes. A statistical data summary is given in Table 41.

Table 41
Statistical Summary of EPA/NES Trophic Index
Data from 108 CE Projects

Variable	n	mean	standard deviation	minimum	maximum
I _p	1421	55.8	13.1	24.1	99.0
I _T	1493	58.9	12.7	25.4	112.9
IB	1505	48.2	10.3	8.0	81.6

Case Studies of Spatial Relationships

104. Spatial variations typical of a few reservoirs are depicted in Figures 7-10. Mainstem stations are displayed in downstream order within each reservoir (not to scale) and mean values are plotted for each version of the Trophic State Index. These plots provide initial perspectives on the types of spatial trends and relationships which can be found in reservoirs and are important supplements to the more formal statistical treatment of the data presented in subsequent sections. The plots seem to illustrate a number of important controlling processes, which are discussed below in relation to each reservoir.

105. Figure 7 contains data from the White River system on the Arkansas/Missouri border. Four reservoirs are connected in series: Beaver, Table Rock, Taneycomo, and Bull Shoals. With the exception of Taneycomo, they are all deep reservoirs with hydraulic residence times in excess of 250 days. Trophic State Index behavior in the first reservoir, Beaver, is considerably different from that typical of the downstream impoundments. Concurrent reductions in $\mathbf{I}_{_{\mathbf{D}}}$ and $\mathbf{I}_{_{\mathbf{T}}}$ most likely reflect sedimentation and the three index curves do not converge until the dam. Once most of the sediment load has been removed in Beaver, agreement among the index curves is good at most downstream stations. Increases in Table Rock probably reflect the influence of a major point source which accounts for more than 70% of the total phosphorus loading to that reservoir. The relatively low values of $I_{\rm R}$ in Taneycomo can be explained by the direct influence of subsurface discharge from upstream Table Rock Dam. Taneycomo has a short hydraulic residence time (7 days) and surface water temperatures at the times when summer chlorophyll-a samples were taken roughly matched temperatures at the 100-foot level just above Table Rock Dam (~15°C). Taneycomo's short hydraulic residence time is apparently insufficient to permit recovery of temperatures and algal populations from those typical of the Table Rock hypolimnion. Decreases in all versions of the index are evident moving downstream in Bull Shoals, and relatively stable conditions are reached over the last four stations.

Figure 7 White River System

WHITE RIVER SYSTEM

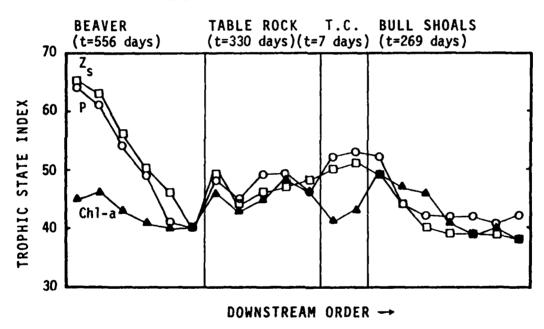


Figure 8 Sakakawea

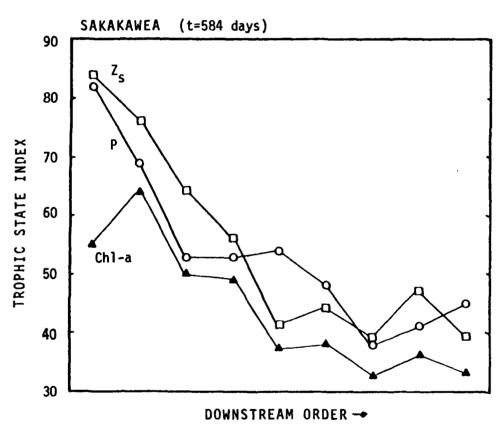


Figure 9 Old Hickory

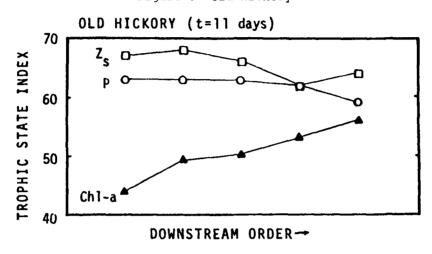
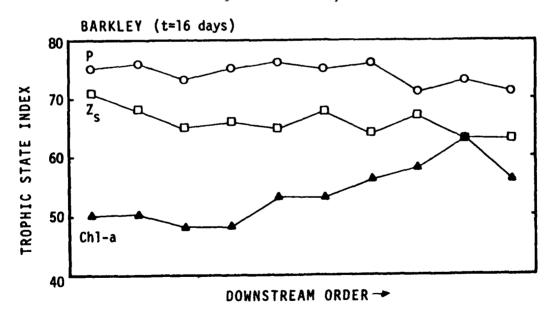


Figure 10 Barkley



106. Lake Sakakawea (Figure 8), on the Missouri River in Montana, shows TSI variations over 40 units, or sixteenfold differences in transparency and total phosphorus. Upstream portions were classified by the EPA/NES as "hyper-eutrophic" and stations near the dam as "oligotrophic". Below the second station, the chlorophyll-a index follows but remains roughly 5-10 index units below the phosphorus and transparency indices.

107. Old Hickory (Figure 9), on the Cumberland River in Tennessee, shows relatively small downstream reductions in phosphorus and transparency and a steady increase in chlorophyll-a. With a mean residence time of 11 days and sediment removal by upstream reservoirs on the Cumberland River, longitudinal variations in $\mathbf{I}_{\mathbf{p}}$ and $\mathbf{I}_{\mathbf{T}}$ are not as evident as in above panels. The gradual increase in $\mathbf{I}_{\mathbf{B}}$ might be a hydraulic residence time effect, i.e., the time scale required for algal populations to "equilibrate" with available nutrient and light levels may be appreciable in relation to time-of-travel within the pool.

108. Similar behavior is evident in Lake Barkley (Figure 10), which is located further downstream on the Cumberland River and has a residence time of 16 days. One important difference is that the phosphorus index remains consistently higher than the other versions. Both ambient available nutrient concentrations and bioassays indicate, however, that algal populations in Lake Barkely were nitrogen-limited at the times of sampling. Use of $\mathbf{I}_{\mathbf{p}}$ alone as a measure of nutrient availability may not be appropriate in this case.

109. The above case studies illustrate a number of factors which can be important in assessing reservoir trophic state relationships: sedimentation, upstream impoundment effects, hydraulic residence time effects, and nitrogen limitation. Reservoir hydrodynamics partially determine the transformations of these and other factors into spatial variations in the trophic state indicators. Upstream/downstream variations contain information on rates and directions of controlling processes. Graphing of spatial relationships and expression/analysis in terms of distance (river mile) and/or time (time-of-travel) will aid in quantitative data analysis and interpretation. Use of station means rather

than reservoir means seems to make more sense for model testing purposes.

Seasonal Relationships

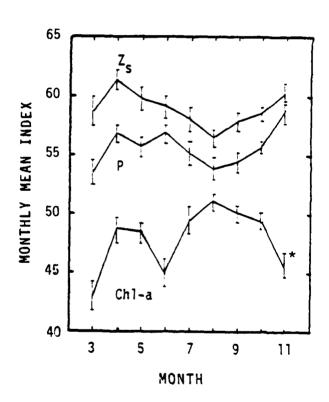
- 110. Average seasonal variations in the index components are depicted in Figure 11. Station means have been computed and their effects removed from the data prior to calculating the mean and standard error for each month (March-November) and index component. Analyses of variance indicate that monthly effects are significant (p < .0001) for each component and strongest in the case of chlorophyll-a. The seasonal variations depicted in Figure 11 are characteristic of this collection of reservoirs but not necessarily of each reservoir individually.
- similar: both tend to be lowest during March and midsummer and highest during April and November, possibly reflecting seasonal flow and turbidity variations and influences of turnover periods. Monthly effects on chlorophyll-a suggest a spring maximum (April-May), followed by a June depression, a midsummer maximum, and lower values in November. Temperature and light effects may be responsible for the relatively low chlorophyll-a levels during March and November. The June depression may be due to seasonal succession of algal species. A more detailed examination of the data indicates that lower June chlorophyll-a levels are characteristic of about half of the stations sampled in June, while the rest have June levels more typical of May or July values. In testing seasonal aspects of TSI behavior, Carlson also noted a June depression in chlorophyll-a index relative to the phosphorus index in three natural lakes.

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112. Differences among various versions of the index provide a measure of "lake-like" behavior, since the index system is calibrated so that I_B , I_T , and I_P values are equivalent, on the average, when applied to midsummer, epilimnetic data from northern, natural lakes. Figure 11 indicates that the range of index means is generally lowest during midsummer (approaching 5 during August) and highest during March, June, and November (approaching 15). Minor recalibration of the phosphorus and/or

Figure 11

Monthly Variations in Trophic State Indices



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* mean \pm 2 standard errors

transparency index would bring $\mathbf{I}_{\mathbf{p}}$ and $\mathbf{I}_{\mathbf{T}}$ into agreement for all seasons, since the monthly effect curves in Figure 12 are roughly parallel. Since seasonal chlorophyll-a behavior is fundamentally different, however, recalibration alone would not eliminate biases (i.e., significant differences between $\mathbf{I}_{\mathbf{p}}$ and $\mathbf{I}_{\mathbf{p}}$ or between $\mathbf{I}_{\mathbf{p}}$ and $\mathbf{I}_{\mathbf{p}}$) for all seasons.

113. Thus, seasonal factors must be considered in reducing the data and in recalibrating/redesigning the index system for use in reservoirs. One approach would be to restrict averaging period to midsummer. An alternative would be to include explicit seasonal effect terms in the model or index system. These approaches will be investigated in future model development work.

Variance Component Estimation

114. Two-way Analyses of Variance have been applied to each reservoir and index component to test for the significance of variations associated with station and sampling date. Results are summarized in Table 42. Significant (p<.1) differences among station means in \mathbf{I}_p , \mathbf{I}_p , and \mathbf{I}_T were found in 46, 37, and 52 out of 105 projects, respectively. Significant differences among date means were found in 62, 67, and 64 projects, respectively.

115. The following ANOVA model has been employed to derive pooled estimates of the variance components of each version of the index:

$$y_{hij} = \mu + r_h + s_{hi} + t_{hj} + e_{hij}$$
 (29)

where

 y_{hij} = index measurement in reservoir h at station i on date j μ = grand mean

 r_h = average effect of reservoir h on grand mean

s_{hi} = effect of station i in reservoir h

thi = effect of date j in reservoir h

e nij = random effect

Table 42
Summary of ANOVA Results

Station Effects

Date Effects	Not Significant	Significant**				
Phosphorus Index						
Not Significant	32*	11				
Significant	27	35				
Chlorophyll-a Index						
Not Significant	33	5				
Significant	35	32				
Transparency Index						
Not Significant	27	14				
Significant	26	38				

^{*} number of projects in category (total = 105)

^{**} significance defined at p <.10

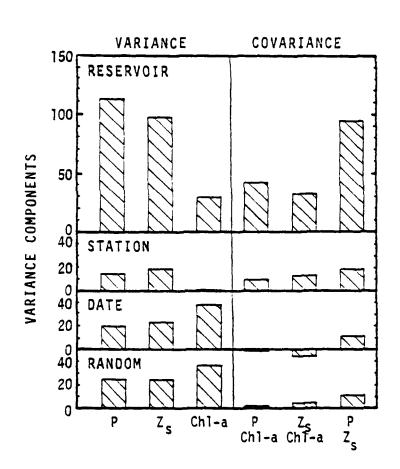
The relative magnitudes of the within- and between-reservoir components are of special significance to monitoring and modelling efforts. With relatively large within-reservoir components, it would be difficult to obtain much accuracy in reservoir summary statistics (e.g., reservoir mean) with limited data. This would reduce the explainable variance (R^2) of any model calibrated to the reduced data set, make it more difficult to distinguish among alternative model formulations, and increase the error associated with model parameter estimates.

116. SAS procedures have been used to estimate the above variance components for each index separately and to estimate analogous covariance components for each pair of indices $(I_B/I_T,\ I_B/I_p,\ I_T/I_p)$. Results are shown in Figure 12. The phosphorus and transparency index components exhibit similar patterns: between-reservoir differences account for 60-66% of the total index variance, as compared with 29% in the case of chlorophyll-a index. Between-reservoir variances indicate that differences in chlorophyll-a are considerably less marked than would be predicted based upon differences in the phosphorus or transparency indices. Conversely, there is greater temporal and random variance in chlorophyll-a than in phosphorus or in transparency.

provide some insights into relationships among the indices at different averaging levels. The between-reservoir and between-station covariance components are positive in all cases. Thus, the various versions of the index correlate positively both among reservoirs and among stations within reservoirs. Temporal components indicate a positive covariance for phosphorus/transparency but slightly negative covariances for the pairs involving chlorophyll-a. Thus, when temporal variations a: a given station are analyzed, one would expect, on the average, to find a positive correlation only between the phosphorus and transparency indices. This correlation might be attributed, for example, to turbidity variations following seasonal or short-term (storm-event) flow variations. Despite its positive covariance between reservoirs and between stations, chlorophyll-a does not covary temporally with the other indices.

Figure 12

Variance and Covariance Components of Trophic State Indices



118. The EPA/NES data base includes measurements from one growing season within any reservoir and does not permit testing for between-year variance or covariance components. Thus, it is not possible with this data set to test for year-to-year covariance between chlorophyll-a and phosphorus or transparency. Distinguishing between seasonal and year-to-year variance components will be possible with an expanded data base including data from other agencies and monitoring programs.

Error Analysis

119. The above analyses demonstrate that within-reservoir variations cannot be considered random with respect to dates or stations, the primary parameters used in monitoring program design. This has implications for estimating the accuracy of reservoir or station mean values calculated from the data set. If variations were random and serially independent with respect to station and date, the following statistic would be appropriate for estimating the variance of a reservoir mean:

$$Var(\overline{y}) = \frac{Var(y)}{N}$$
 (30)

where

N = total number of observations within a reservoir for a given index

Using two-stage sampling theory ³³, the following formula is more appropriate:

$$Var(\overline{y}) = \frac{\sigma_s^2}{n_s} + \frac{\sigma_t^2}{n_t} + \frac{\sigma_e^2}{N}$$
 (31)

where

 σ^2 = mean squared deviation

n = number of stations sampled

 n_{+} = number of dates sampled

The first term accounts for the influence of between-station variations, the second for between-date variations, and the third for random

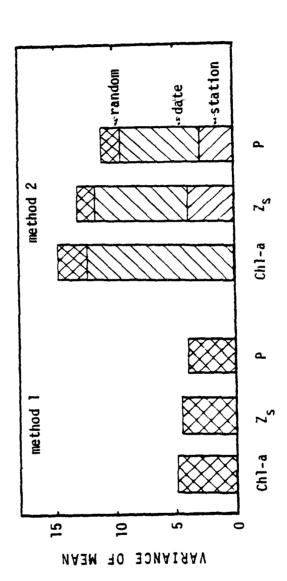
variations. Note that equation (31) reduces to equation (30) when spatial and temporal variations are insignificant ($\sigma_s^2 = \sigma_t^2 = 0$ and $\text{Var}(y) = \sigma_e^2$). Because both spatial and temporal variations often exhibit patterns or trends (see Figures 7-11), they cannot be considered serially independent. Thus, equation (31) provides error variance estimates which are approximate but useful for assessing the relative contributions of spatial and temporal variance to the variance of reservoir means.

- 120. Based upon the total number of observations, stations, and reservoirs in the NES data set, the "typical" reservoir survey program covers 5 stations (n_s) on 3 dates (n_t), for a total of 15 observations (N). Using these values and the pooled variance components depicted in Figure 5, equations (30) and (31) have been applied to each version of the index and results are displayed in Figure 13.
- 121. Considering the effects of spatial and temporal variance components (equation (31)) increases mean error by about a factor of three over estimates derived from equation (30). Most of the error variance is due to the temporal component, especially in the case of the chlorophyll-a index. The error variances indicate that the EPA/NES sampling strategy has provided estimates of reservoir geometric means which are typically accurate (p < .05) to within factors of 1.6, 2.2, and 1.7 for surface phosphorus concentration, chlorophyll-a concentration, and Secchi depth, respectively.

Monitoring Implications

122. Error anal, ses can be used to improve upon monitoring program designs. For example, given the objective of collecting data to be used in estimating a reservoir mean with minimum variance, the above results suggest that an increase in sampling dates would be more effective than an increase in sampling stations, because the date effect term dominates the error equation. Since the variance component estimates have been pooled, these results apply to this collection of reservoirs as a whole and not necessarily to each reservoir. The same approach could be

Figure 13
Variance Components of Trophic Index Means within Reservoirs



applied using parameters estimated for each reservoir individually (n_s , n_t , N, σ_s^2 , σ_t^2 , σ_e^2). "Optimal" designs could be formulated based upon the error analysis framework and upon functions which relate n_s , n_t , and N to monitoring cost. Given variance components estimated from prior monitoring data, improvements in program design (changes in n_s , n_t , and N) for a given reservoir could be formulated to yield minimum error for a fixed total cost or minimum cost for a fixed total error. The approach could be expanded to include depth as a third sampling dimension. This represents a logical application for the error analysis framework in a monitoring context.

Modelling Implications

- 123. In evaluating models, differences between observations and predictions can be attributed to three types of error: parameter error, data error, and model error. The first reflects uncertainty in the model coefficients, the second, errors in the predicted and/or predictor variables, and the third, influences of factors which are not considered in the model structure. Analyses of the type conducted above can be used to quantify potential data errors and separate them from the other components. This provides insights into the adequacy of a data base for use in model testing. If, for example, the data error component dominates, it would be difficult to distinguish among alternative models or to improve upon them without first improving the data base.
- 124. Table 43 summarizes results of regression analyses which have been done to summarize relationships among the three versions of the index using station mean and reservoir mean values. Results further demonstrate the need for recalibration of Carlson's index system in applications to reservoirs. The sensitivity of the chlorophyll-a component to phosphorus or transparency ranges from .30 to .37 and is in all cases significantly different from 1.0, the value obtained when the index system is calibrated to natural lakes. In contrast, the sensitivity of I_p to I_r is .88 for stations means and .91 for reservoir means.

Table 43
Regression and Corresponding Error Analyses

Model		r				Sampling Error Total Error
Stati	on Means (n=484)					
r _B =	28.7 + .35 I _p	.55	.024	42.3	23.1	.55
I _B =	30.0 + .31 I _T	.46	.027	47.6	22.7	.48
I _p =	4.0 + .88 I _T	.83	.027	47.6	25.9	.54
Reser	voir Means (n=108)					
IB =	28.0 + .37 I _p	.59	.048	32.5	16.3	.50
IB =	31.0 + .30 I _T	.44	.059	41.0	16.0	.39
I _p =	2.0 + .91 I _T	.83	.059	41.0	22.1	.54

^{*} Sampling Error due to error in estimating mean index values within each station or reservoir; sampling errors for station mean phosphorus, chlorophyll-a, and transparency indices are estimated at 14.3, 21.3, and 15.0, respectively; corresponding sampling errors for reservoirmeans are 11.2, 14.8, and 13.1.

^{**} Total Error = mean squared residual

^{***} s_b = standard error of regression slope

While the correlation coefficients (and explained variance) are considerably lower for predicting chlorophyll-a (.44-.59) than for predicting phosphorus from transparency (.83), the mean squared prediction errors are similar.

125. Part of the mean squared error for each regression model can be attributed to sampling error in estimating the reservoir and station mean values. The sampling error component of the mean squared error for each model is estimated from:

$$Var(\overline{y} - b\overline{x}) \simeq Var(\overline{y}) + b^2 Var(\overline{x})$$
 (32)

where,

y = predicted index

x = predictor index

b = slope of regression model

Results of error analyses have been used to estimate sampling errors in station mean and reservoir mean values. Results indicate that roughly half (39-54%) of the residual standard error can be attributed to sampling error in the data values. The remaining variance presumably reflects model error, or the effects of factors (e.g., season, sediment) which are not accounted for in the model. The choice of averaging method (stations vs. reservoirs) does not influence the model coefficient values significantly. Mean squared errors are reduced when reservoir mean values are used, partially resulting from a reduction in the sampling error component. The standard errors of the regression slopes, however, increase roughly twofold when reservoir mean values are used in place of station means. Thus, using station means permits better definition of model coefficients.

126. The intent of the regression analyses presented in Table 43 is to demonstrate the error analysis approach and identify influences of data reduction method. The models suggest that chlorophyll/phosphorus and chlorophyll/transparency relationships in these reservoirs are significantly different from those which are typical of natural lakes.

The models are inadequate for predictive use, however, because a number of important factors have not been considered, including season, nitrogen limitation, hydraulic residence time, region, and external sediment loading. These and other factors will be considered in developing a Trophic State Index system applicable to reservoirs under Phase II of this project.

Conclusions

127. Statistical models of index (or water quality) variations within reservoirs have been shown to be complicated by the effects of spatial and temporal variations and by non-randomness or serial dependence in these variations. The above analyses have demonstrated how some of these influences can be approximately treated and applied to assess data adequacy for computing reservoir means and to improve upon monitoring program designs. A more thorough statistical treatment would require more intensive data sets and involve the construction of more complex statistical models applied separately to each reservoir using simulation techniques. This level of detail is not justified or feasible within the context of this study.

128. The following general conclusions can be drawn from the analyses of EPA/NES data in previous sections:

- a. Spatial relationships among trophic state indicators are important in some reservoirs, especially when stations are viewed in downstream order.
- b. Analyses of Variance indicate that within-reservoir variations are often non-random with respect to stations and/or sampling dates within a given year. Variations with respect to date are typically stronger than variations between stations, particularly in the case of chlorophyll-a.
- c. Some of the temporal variance within reservoirs and stations is fixed with respect to month or season. Seasonal effects on phosphorus are qualitatively similar to seasonal effects on transparency but differ from seasonal effects on chlorophyll-a.

- d. Between-reservoir variance in Carlson's chlorophyll-a index is roughly one third of the between-reservoir variances in the phosphorus and transparency indices.
- e. For this data set, chlorophyll-a variance between sampling dates within reservoirs is greater than its variance between reservoir means. The reverse is true for phosphorus and transparency.
- f. Covariance components indicate significant positive correlations among the three versions of the index system when variations between reservoirs and between stations within reservoirs are considered. The chlorophyll-a index does not correlate with either of the other indices, however, when temporal variations (at a given station or within a given reservoir) are considered.
- g. Because of non-randomness with respect to stations and dates, the error variance of reservoir mean values for each index are typically three times those estimated from the familiar formula for mean variance (σ^2/n) .
- h. Given the objective of estimating reservoir means with minimum variance, error analyses indicate that increases in the number of sampling dates would be generally more effective than increases in the number of stations per reservoir for improvement in the EPA/NES sampling design.
- i. Regression analyses indicate that chlorophyll-a levels are significantly less sensitive to phosphorus or transparency, as compared with the natural lakes used in developing Carlson's index system. Future development of an index system for reservoirs should consider the effects of season, region, nitrogen limitation, residence time, and sediment loading.
- j. Use of station means, as opposed to reservoir means, in recalibrating the index system causes small increases in standard error of estimate but substantially reduces the standard errors of model parameters.

Implications for Data Reduction Strategies

- 129. The conclusions in the previous section suggest that the following data-reduction/analytical strategies be used in testing and developing models under Phase II of this project:
 - a. Since spatial variations and trends have been shown to be often statistically identifiable and useful for interpretation purposes, use of station means would seem to be more

- desirable than use of reservoir means for model testing. Use of station means would also permit better definition of model parameters.
- b. It would be useful to develop a scheme for spatial orientation of stations within each reservoir with respect to major tributary (arm) and distance (river mile). Some aggregation of stations based upon proximity may be feasible within this framework.
- c. Seasonal factors should be considered in averaging data within each station or station group. This would involve, for example, estimation of "spring", "summer", "fall", as well as "growing season" and "annual" averages.
- d. For non-NES stations which are sampled during more than one year, tests for significant year-to-year differences should be made and used to decide whether aggregation of data from different years is justifiable.
- e. While the above analyses have been based exclusively upon surface sampled for phosphorus, averaging with depth should be considered, at least within the photic zone, for testing of relationships among phosphorus, chlorophyll-a, and transparency.

Charles House,

f. To permit testing of loading response models, seasonal estimates of reservoir means could be derived by averaging across stations. Due to longitudinal variations in many reservoirs, however, near-dam or discharge conditions should also be used as bases for loading model evaluations.

Introduction

130. The estimation of reservoir nutrient budgets entails estimation of the total mass of nutrients passing given sampling points over a given period of time, typically at least one year. While continuous, flow-weighted composite sampling for concentrations would provide the best basis for deriving such estimates, usually only periodic grab-samples are available for stream concentrations. These concentrations must be integrated with flow records (typically continuous) in order to estimate the desired loadings. The purpose of this section is to test and compare alternative methods in order to provide some guidance for future nutrient budget calculations on CE reservoirs.

PART TOTAL

Preliminary Analysis

- 131. The relationship between concentration and flow influences the appropriateness of a given loading calculation method at a given station. A subset of flow and phosphorus concentration data from the current CE data base has been analyzed in order to provide some perspective on this relationship 34. The subset includes 86 tributary and 33 discharge stations, each with at least 25 total phosphorus/streamflow pairs obtained from STORET. Table 44 describes the symbols and fundamental equations used to characterize flow and concentration variations.
- 132. Results of the preliminary analysis are given in Table 45, with data grouped by station type. The regression model relating the logarithm of concentration to the logarithm of flow explains, on the average, 12.3% of the variance in concentration at tributary stations and 6.6% of the variance in concentration at discharge stations. Figure 14 shows that the upper percentiles of the R² distribution at tributary sites are roughly twice those found at discharge sides.

Table 44

Fundamental Equations and Symbols

Leading Definition: L = Q C

:4

W = X + Y

Flow/Concentration Model: C = a Qb

 $Y = log_{10}^a + b X$

Distributions: Y: (mean= μ_y , std.dev.= σ_y)

X: (mean= μ_x , std.dev.= σ_x)

Symbols: L = Loading (mass/time)

Q = Flow (volume/time)

C = Concentration (mass/volume)

 $W = \log_{10}(L)$

 $x = \log_{10}(Q)$

 $Y = \log_{10}(C)$

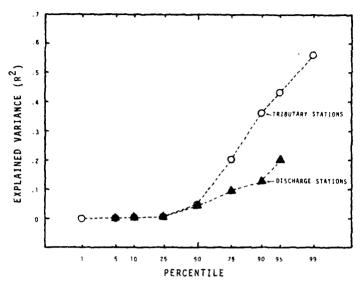
a,b = Regression model parameters

Table 45

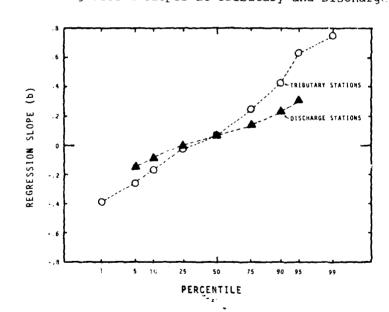
Preliminary Analysis of Flow/Total P Concentration Relationships

	Station Type	
Statistic	Tributary	Discharge
number of stations	86	33
<pre>fraction of variance explained by regression model</pre>	.123 ± .151*	.066 ± .078
residual variance	.101 ± .075	.090 ± .050
serial correlation of residuals	.228 ± .205	.300 ± .276
conc/flow sensitivity (b)	.124 ± .250	.097 ± .138
standard dev. of log (flow)	.573 ± .246	.600 ± .303
standard dev. of log ₁₀ (conc)	.323 ± .133	.297 ± .088

^{*} mean ± one standard deviation



 $\label{eq:Figure 15}$ Distributions of Regression Slopes at Tributary and Discharge Stations



- 133. Both the mean and the standard deviation of the regression slope (b) are larger in the case of tributary stations. The distributions of b are compared on a normal probability scale in Figure 15. While the medians are nearly equal, the upper percentiles are higher and the lower percentiles are lower in the case of tributary stations. The wide distribution of b values across stations suggests that loading calculation methods must be capable of accounting for alternative flow/concentration relationships.
- 134. These results indicate that concentration tends to be more flow-dependent at upstream tributary stations than at discharge stations. Reservoir pools may buffer variations associated with runoff events (which would tend to produce high b values) or point source discharges (which would tend to produce low b values). The fact that streamflow is highly regulated at reservoir discharge points may also contribute to weaker flow/concentration relationships. The serial correlation of residuals (i.e., concentration, after the effect of flow is removed) tends to be higher in the case of discharge stations (.30 vs. .23 on the average). This suggests that seasonal factors or long-term trends may have greater influences at discharge points.
- 135. Table 46 lists means regression slopes by station type and component (dissolved P, total P-dissolved P, and total P, respectively). This breakdown is based upon measurements of total P and dissolved P at 52 tributary and 17 discharge stations. For both station types, the mean slopes of dissolved phosphorus with respect to flow are not significantly different from zero. In the case of total P-dissolved P, however, the mean slope is $.34 \pm .05$ at tributary stations and $.11 \pm .09$ at discharge stations, although the latter is not significantly different from zero. The influence of streamflow on the transport of particulate phosphorus probably accounts for these results. The dissolved component tends to be more independent of flow than the particulate component. The relative weakness of the dissolved phosphorus/flow relationship may reflect a buffering effect of adsorption chemistry on stream phosphorus levels and/or the fact that transport efficiency for dissolved phosphorus

Table 46

Concentration/Flow Sensitivities by Component and Station Type

Station Type	Component				
	Number of Stations	Total P - Dissolved P	Dissolved P	Total P	
Tributary	52	.341 ± .050*	.019 ± .034	.239 ± .044	
Discharge	17	.109 ± .087	.036 ± .101	.082 ± .038	

^{*} mean + one standard error of mean

is not velocity-dependent, as in the case of the particulate fraction.

Estimation Methods

- 136. Four algorithms for estimating loadings have been tested:
 - a. average loading.
 - b. average concentration x average flow.
 - c. flow-weighted average concentration x average flow.
 - d. regression estimate based upon log (concentration) vs. log(flow) relationship.

These schemes are described in Table 47. A few other types of regression models have also been evaluated, but none proved better than the model used in Method 4 (see Table 47). Two approaches to evaluating these methods have been taken: one involves subsampling from simulated flow and concentration data and the other, subsampling from real flow and concentration data. These methods and results are described below.

Tests Based Upon Simulated Data

137. Table 48 describes an algorithm used to generate flow and concentration time series using Monte-Carlo techniques. This method has been used to produce five years of simulated daily-average flow and concentration data. Mean loadings have been calculated directly for each year and compared with estimates based upon subsampled taken at monthly intervals and employing the calculation methods listed in Table 47 For each year, a total of thirty trials (sets of subsamples) have been made, representing regular sampling on day 1 to day 30 of each month, respectively. Thus, error statistics are based upon a total of 150 trials for each method. Results have been found to be insensitive to the number of trials. The simulation algorithm is not adequate for evaluation of interpolation methods (in which the sequence of samples is considered), since no serial correlation or seasonal factors are included. The parameters of the simulation model are typical of the

Table 47

Estimation Methods

Method I : Average Loading

$$\hat{\mathbf{L}}_1 = \frac{\mathbf{r} \, \mathbf{q}_i \, \mathbf{c}_i}{\mathbf{r}}$$

Method 2 : Average Concentration x Average Flow

$$\tilde{L}_2 = \overline{Q} = \frac{\Sigma c_i}{n}$$

Method 3 : Flow-weighted Average Concentration x Average Flow

$$\hat{\mathbf{L}}_3 = \overline{\mathbf{Q}} \quad \frac{\mathbf{E} \, \mathbf{q}_i \, \mathbf{e}_i}{\mathbf{E} \, \mathbf{q}_i}$$

Method 4 : Regression Estimate

$$\hat{L}_4 = \frac{\sum q_i c_i}{n} \left[\frac{n \overline{Q}}{\sum q_i} \right]$$

where,

 $q_i = flow on sample data i$

c, = concentration on sample date i

n = number of sample dates

b = slope of log(c) vs. log(q) regression

Q = average flow over entire period, based upon continuous flow record

E = sum over all sample dates (i=1 to n)

Table 48

Algorithm for Generation of Flow/Concentration Time Series

Input Values:

 μ_{\bullet} = mean of logarithm of flow ≈ 0 .

 μ_{v} = mean of logarithm of concentration = 0.

 d_x = standard deviation of logarithm of flow = .52

b = slope of flow/concentration model = (-.8 + .8)

Algorithm:

$$x_i = \mu_x + N(0,1)d_x$$

$$Y_{i} = \mu_{y} + N(0,1)d_{y} + (X_{i} - \mu_{x})b$$

Symbol:

N(0,1) = normal random deviate with mean zero and standard deviation one

data distributions depicted in Figure 15 and Table 45. A range of flow/concentration sensitivities (b in Table 47) have been used (-.8 to +.8).

138. The following error statistics have been used to compare "observed" and estimated loadings for method and trial:

$$Bias_{j} = \frac{1}{M} \sum_{k=1}^{M} \left(L_{k} - \hat{L}_{jk} \right) / L_{k}$$
(33)

$$MSE_{j} = \frac{1}{M} \sum_{k=1}^{M} \left(L_{k} - \hat{L}_{jk} \right)^{2} / L_{k}^{2}$$
 (34)

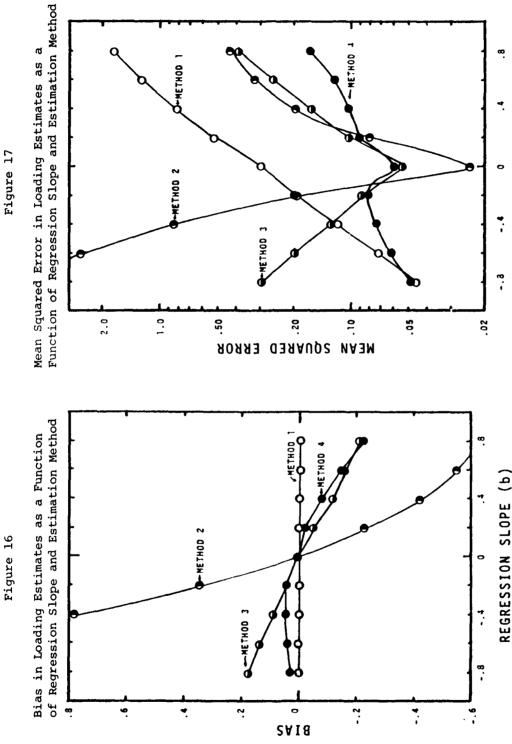
where,

For each method, these error statistics are plotted vs. the flow/concentration sensitivity statistic in Figures 16 and 17, respectively.

139. Only Method 1 is unbiased for all values of b. The MSE of this method, however, is significantly higher than that of the other methods at values of b greater than -.2. This method is best under conditions where loading is relatively independent of flow $(b \rightarrow -1)$. This might be the case, for instance, at a station which is located below a major point source of nutrients, but not where storm-event or non-point loads are significant.

140. The performance of Method 2, in which concentration and flow are averaged independently, is a strong function of b, both with respect to bias and variance. This method is unbiased only at b=0, but has biases of +35% and -23% at b values of -.2 and +.2, respectively. Trends in bias continue moving toward more negative or more positive b values. The method has a sharp minimum in MSE at b=0. This scheme is apparently best only when concentration and flow are truly independent, but gives

Figure 16



REGRESSION SLOPE (b)

substantial biases and MSE's for even weak flow/concentration relationships.

- 141. Method 3, which employs the flow-weighted average concentration, behaves qualitatively similar to Method 2, but is not as sensitive to b values. Zero bias and minimum variance are evident at b=0. This method is analogous to a "ratio estimate" used in classical sampling theory ³⁵.
- 142. Method 4 has less bias and variance than Method 3 for most b values. Unlike the other methods, the regression model can adjust to different types of flow/concentration relationships and estimation errors are less sensitive to b values. Bias becomes more significant at high values of b. At b=.6, for example, Method 4 underpredicts loading by an average of 15%. The MSE at this b value is .13, which corresponds to a standard error of \pm 36%. Thus, bias is less than one half of one standard error and accounts for 17% of the MSE $(.15^2/.13)$ at b=.6. Additional tests indicate that applying the regression model separately to each daily flow in the year, a more tedious calculation, does not reduce the bias or variance of Method 4 at any b value.

Tests Based Upon Real Data

- 143. Calculation methods have also been tested using the flow and concentration data from the 119 stations analyzed above. Subsamples of 12 flow/concentration pairs have been taken at regular intervals from each station. Loadings estimated for each subsample and method have been compared with loadings estimated by applying Method 1 to all flow/concentration pairs available for each station. A total of 508 subsamples have been taken from 86 tributary stations and 190 subsamples from 33 discharge stations. Bias and MSE estimates are given in Table 49 for each method and station type. These results are approximate because of errors involved in estimating actual loading.
- 144. Generally, Methods 3 and 4 appear to perform better than Methods 1 or 2 for both station types. The MSE of Method 3 equals that

Table 49

Results of Method Testing Using Real Flow and Concentration Data

		Estimati	on Method**	
Stati stic	Method 1	Method 2	Method 3	Method 4
Tribut	ary Stations	(N=86,M=508	*	
Bias	002	027	029	023
MSE	.530	.297	.176	.176
Disch	arge Stations	(N=33,M=19)	0)	
Bias	.001	.068	017	000
MSE	.272	. 585	1108	.156

^{*} N = number of stations, M = number of trials

^{**} see Table 47

of Method 4 in tributary stations (.176), but is lower in discharge stations (.108 vs. .156). When averaged over the range of b values in the data set, none of the methods is appreciably biased.

Prior Error Estimation

145. To provide bases error analysis and assessment of data adequacy, a means for estimating the variance of loading estimates derived from a given set of flow/concentration data is needed. Table 50 presents a formula appropriate for use with Method 4 (or with Method 3 when b=0). This approximate formula, derived from expected value theory, has two terms: one reflecting variance around the flow/concentration regression model, and one reflecting variance in the estimate of the slope parameter b.

146. Figure 18 compares the observed mean squared estimation errors for Method 4 with error variances estimated from the formula in Table 50 using simulated data. Reasonable agreement between observed and estimated variances is apparent over the range of b values typically encountered. Similar tests have been done using real flow and concentration data. The formula in Table 50 overestimates the error mean square by an average of 18% for tributary stations and underestimates the error mean square by an average of less than 1% at discharge stations.

Conclusions

147. Preliminary data analysis has characterized the distributions of flow/concentration relationships in tributary and discharge streams. Methods 3 and 4 are generally better than Methods 1 or 2 for estimating loadings, given the distribution of concentration/flow sensitivies encountered at various stations (see Figure 15). Method 3, which employs the flow-weighted average concentration, is actually a special case of Method 4, with b=0. In calculating loadings, it seems reasonable to use a regression analysis to estimate the slope parameter b and to use

Table 50

14

Formula for Estimating the Variance of Loadings Calculated Using Method 4

Loading Estimate:

 $\begin{array}{c|c}
n & \overline{Q} \\
\hline
\underline{Q} & n
\end{array}$

 $\frac{\sum \left(q_i \cdot c_i - a \cdot q_i\right)^2}{n \cdot (n-2)} +$

Variance:

5p

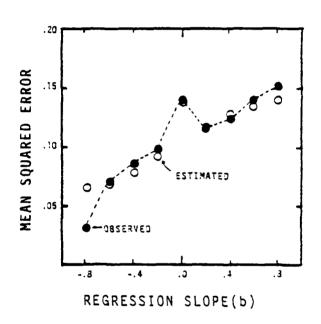
 $\begin{bmatrix} \overline{c} \ q_{\underline{1}} \ c_{\underline{1}} \\ n \end{bmatrix} t_n \begin{pmatrix} \overline{\overline{\rho}} \ n \\ \overline{c} \ q_{\underline{1}} \end{pmatrix}^2 \sigma b \begin{pmatrix} \overline{\overline{\rho}} \ n \\ \overline{c} \ q_{\underline{1}} \end{pmatrix}.$

 σ_b^2 = variance of b estimate

* where

* other symbols defined in Tables 46 and 47

Figure 18
Observed and Estimated Mean Squared Error in Loading Estimates



Method 4 unless the slope estimate is not significantly different from zero, in which case Method 3 would be used. The formula in Table 50 can be used to derive approximate estimates of error associated with a given mean loading calculated using Methods 3 or 4. Error variances can be used, in turn, to characterize the accuracies of reservoir nutrient loading and discharge estimates.

PART XV: CONCLUSIONS

- 148. The compilation, description, and preliminary analyses of the data base described in previous sections lead to the following conclusions:
 - a. Using primarily centralized sources of information, it has been possible to compile sufficient data on water quality, hydrology, sedimentation, and other project characteristics to permit testing of empirical eutrophication models under Phase II of this study.
 - <u>b</u>. The hydrology files need to be augmented with monthly elevation/contents data from several districts and projects.
 - c. Information in the water quality files will not be adequate for assessing the trophic states of all 299 reservoirs in the central project list. It should be adequate, however, for characterizing about 130 reservoirs and for testing empirical models relating within-pool measures of trophic state.
 - d. Use of data sources outside of the EPA/National Eutrophication Survey has generally more than doubled the total numbers of observations of various within-pool trophic state indicators. Non-NES data are generally more extensive temporally.
 - e. Comparisons derived from the EPA National Eutrophication Survey compendium reveal significant differences between lakes and reservoirs in the means of most morphometric, hydrologic, and trophic state indicator variables. Compared with natural lakes, reservoirs have greater potential nutrient enrichment problems, as gauged by Vollenweider phosphorus loading models, but lower observed levels of chlorophyll-a, on the average. The validity of existing loading models in reservoirs is in question due to lake/reservoir differences in morphometry, hydrodynamics, sedimentation, and region. Because of the relative geographical distributions of lakes and reservoirs in the U.S., it is difficult to distinguish the effects of region from those of impoundment type.
 - f. For the purposes of this project reservoir hypsographic curves can be conveniently summarized using low-order polynomial equations relating the logarithm of total volume to the logarithm of total depth. Errors characteristic of this curve-fitting scheme are similar to those characteristic of direct interpolation methods.

- g. Within-reservoir variations of trophic state indicators generally cannot be considered random with respect to station and date, the primary parameters used in monitoring program design. Spatial variations contain information on rates and directions of processes controlling eutrophication within reservoirs. Variance component analyses indicate that phosphorus and transparency have variance structures which are similar to each other, but fundamentally different from the variance structure of chlorophyll-a. Implications of these variance structures for monitoring and modelling efforts have been discussed.
- A method for estimating the mean and error variance of nutrient loadings derived from continuous-flow and grabsample-concentration measurements has been developed and tested using real and simulated flow/concentration time series. The method employs a regression model relating concentration to flow and has been shown to compare favorably with alternative calculation methods with respect to bias and variance of loading estimates under a range of conditions.

PART XVI: RECOMMENDATIONS

- 149. The following additional data base development work is required in order to permit testing of empirical eutrophication models and should therefore be included in the scope of Phase II of this study:
 - a. compilation of monthly elevation/contents data from many districts and projects, as indicated by the inventories in Appendix A.
 - <u>b</u>. development of a scheme for sorting of water quality stations in downstream order within reservoirs.
- 150. While compiled for the specific purposes of this project, the data base described in this report could be adapted for other, more generalized uses. As discussed in the introduction to this report, the current data base consists of a number of computer files, reports, maps, and data forms organized in a consistent framework. It is not a system designed for frequent interactive use. Given the current data base, the development of such a system would involve the following:
 - a. definition of objectives (desired scope of data base uses).
 - <u>b</u>. definition of operating environment (direct users, maintainence personnel, and computer system).
 - c. development of appropriate software for various purposes (e.g., accessing, updating, editing, summarizing, displaying, analyzing).
 - d. compilation of any additional data required for intended uses of the data base (e.g., inclusion of priority pollutants, development of a digital reservoir mapping capability).
 - e. appropriate modifications in file designs.
 - f. establishment of channels and procedures for updating and verification of information.
 - g. testing of the system in an operational environment.
 - h. documentation of the system.
 - i. orientation of potential users.

It is recommended that the Corps of Engineers consider expanding upon the existing data base, as outlined above, in order to permit more generalized use of the information which has been compiled under this project. The

final product would represent a valuable resource for reservoir design, operation, and research at various organizational levels within the Corps of Engineers.

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APPENDIX A

DATA INVENTORIES BY PROJECT AND DIVISION

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	TOTAL	TOTAL NUMBE	YEAR	NET	TOTAL	MEAN	MEAN	MEAN	USGS	USGS	
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2 NEW YORK	9	6	e e	6	   	3	0	0	6		
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4 BALTIMORE	on:	đ	8	9	89	9	-	-	7	7	
5 NURFOLK	•	0	0	0	0	•	۰	0	٥	0	
6 WILMINGTON	m	e	~	m	8	8	~	8	~	~	
7 CHARLESTON	-	-	~	-	-	-	-		-	-	
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	-	-	-	0	-	-	•	0		_	
10 MOBILE	17	17	0	0	17	91	٥	0	13	14	
1 BUFFALO	-	_	-	-	_	-	-	0	-	-	
2 DETROIT	•	0	0	0	•	0	٥	0	a	9	
3 CHICAGO	0	o	0	0	0	0	٥	۰	0	0	
14 ROCK ISLAND	~	7	7	-	6	2	-	_	~	2	
15 ST PAUL	-13	7	12	s	12	12	e	e	=	Ξ	
6 PITISBURG	-	-	-	Ξ	7	14	•	œ	4	4	
17 HURTINGTON	28	28	27	13	28	27	12	12	27	25	
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19 MASHVILLE	1	7		· cn		7	· ~	m			
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1 MEMPH1S	-	-	-	-	-	-	-	-	-	-	
22 VICKSBURG	7	7	1	'n	7		4	4	7		
I NEW ORLEANS	4	4	9	- - -	4	F	3	9	7	2	
4 LITTLE ROCK	10	0.	2	g	0,	9	٣	~	2	0.	
5 TULSA	35	32	<b>5</b> 9	58	31	30	12	80	38	58	
5 FORT WORTH	11	17	17	7	17	17	9	7	17	17	
7 GALVESTON	0	٥	0	•	o	0	0	0	•	•	
29 ALBUQUERQUE	4	4	4	e	4	7	m	8	4	7	
9 KAUSAS CITY	=	=	=	S.	=	=	~	0	=	=	
D CHAMA	30	50	ø	16	=	=	-	0	Ø	•	
WALLA WALLA	4	4	0	7	4	4	٥	0	~	4	
32 SEATTLE	6	9	10	4	9	9	٥	٥	2	9	
3 PORTLAND	17	1.1	13	on	91	13	~	9	12	4	
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35 SAN FRANCISC	7	2	2	2	7	1	-	-	7	2	
	8	~	~	~	0	-	-	-	0	-	
		1								!	
TOTALS	599	295	264	184	282	269	9	29	259	257	

## Table A2

Inventory of RESTER.MORPHO File

NEED   NEW ENGL   12 BMF   1	NEW ENGL 142 BUF FUNVILLE	ELEV	AREA	VOL CO	cones cones	CODES LENGTH MIDTH SHORE	HIGH	SHURE
NEW ENGL   47 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18 FAST   18	NEW ENCL   47 LITEVILLE   16   19   19   19   19   19   19   19	524	2	2	2 1	-	-	•
NEW ENGL   140 TLLY   150 MS	NEW ENGL   100 WESTVILLE   15 625	653	* 4	4	7	-  - 	-	-
NEW EGG   55 OLE SWILLE   12   515   576   12   12   12   13   14   14   14   15   15   15   15   15	NEW ENGL   150 WESTVILLE   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   1	9,0	5 2	2 4	v (*	-		
NEW ENGL   52 COLERBOOK RIVER   12 547   764   14 14 2 3   1   1   1   1   1   1   1   1   1	NEW EVGL   57 BLACK ROCK   12   12   13   14   15   15   14   15   14   15   14   15   14   15   14   15   14   15   14   15   14   15   14   15   14   15   14   15   14   15   14   15   14   15   14   15   14   15   14   15   14   15   15	572	<b>.</b>			· <del>-</del>	_	-
NEW FOLCE, ISONOR RIVER   12 S64 761 12 12 3 1 1 1	NEW ENGL 152 COLERGOOK RIVER   12 567     NEW ENGL 155 COLERGOOK RIVER   14 55     NEW ENGL 155 HANGCOK BROOK   14 55     NEW ENGL 155 HANGCOK BROOK   19 5     NEW ENGL 155 HANGCOK BROOK   19 5     NEW ENGL 167 EVERT   16 929     NEW ENGL 167 EVERT   16 929     NEW ENGL 167 EVERT   15 90 94     NEW ENGL 167 HOPKINTON   6 370     NEW ENGL 167 HOPKINTON   6 370     NEW ENGL 167 HOPKINTON   6 370     NEW ENGL 167 HOPKINTON   10 90 6     NEW ENGL 169 SURR WOUNTAIN   6 90 6     NEW ENGL 170 BALL WOUNTAIN   10 90 6     NEW ENGL 170 BALL WOUNTAIN   10 90 6     NEW ENGL 171 HORTHILD   10 90 6     NEW YORK 177 EAST BARRE   5 1125     NEW YORK 177 EAST BARRE   5 1125     NEW YORK 177 WAITSVILLE   8 612     NEW YORK 177 WAITSVILLE   18 50 1     NEW YORK 177 WAITSVILLE   19 50 1     NEW YORK 177 WAITSVILLE   19 50 1     NEW YORK 177 WAITSVILLE   19 50 1     NEW YORK 177 WAITSVILLE   19 50 1     NEW YORK 177 WAITSVILLE   19 50 1     NEW YORK 177 WAITSVILLE   19 50 1     NEW YORK 177 WAITSVILLE   19 50 1     NEW YORK 177 WAITSVILLE   19 1     NEW YORK 177 WAITSVILLE   19 1     NEW YORK 177 WAITSVILLE   19 1     NEW YORK 177 WAITSVILLE   19 1     NEW YORK 177 WAITSVILLE   19 1     NEW YORK 177 WAITSVILLE   5     520	8	8	2	-	-		
NEW EVGL 155 HONDOOK BROOK	NEW ENCL 155 HONDOX BROOK   14 454	761	7	2		-	-	-
NWW ENGL   156 NOW FAFEED BROOK   9 29 2 364 9 9 9 2 1   1   1   1   1   1   1   1   1   1	NEW ENGL 156 MAN FIELD HOLOW	484	4	7	~	-	-	-
NEW FIGUL 159 MANTAFIELD BROLCOW	NEW ENGL   158 MANSTEELD HOLLOW   16   195     NEW ENGL   158 MANSTEELD BROOK   8   294     NEW ENGL   152 WEST THOMPSON   15   304     NEW ENGL   154 EDNAPD ECONELL   15   305     NEW ENGL   155 FRANKLIN FALLS   15   305     NEW ENGL   156 FRANKLIN FALLS   15   305     NEW ENGL   157 HOPKINTON   6   370     NEW ENGL   159 BURRY MOUNTAIN   6   495     NEW ENGL   170 BALL MOUNTAIN   10   805     NEW FORT   170 MATERBURY   24   501     NEW YORK   171 MATERBURY   24   501     NEW YORK   172 MATERBURY   24   501     SPHILADEL   315 FRANCIS E WALTER   23   1250     SPHILADEL   315 FRANCIS E WALTER   13   1550     SPHILADEL   315 FRANCIS E WALTER   15   1550     SPHILADEL   315 FRANCIS E WALTER   16   1750     SPHILADEL   315 FRANCIS E WALTER   315 F	364	Ga	9	7	_	-	-
NEW FIGL   6.5 WORTFIELD BROCK   8 480   576   6 8 8 2   1   1   1   1   1   1   1   1   1	NEW ENGI, 159 NORTHFIELD BROCK   8 480	257	9-	16	~	-	-	
NEW ENGL   64 EMEST HOMPSON   8 292 342   8	NEW ENGL   62 WEST THOMPSON   8 29 2	576	∞	Φ	~	-	-	-
NEW ENGL   165 EVERET   15 904 967   14   14   3   1   1	NEW ENGL   156 EVERTI   15   304	342	89	9	2	-	_	-
NEW ENCL   66 FRANKLIN FALES   16   325   418   16   16   22   1   1     NEW ENCL   66 FRANKLIN FALES   15   30   416   66   66   67   67   68   68   69   69   69   69   69   69	NEW ENGL   165 EVERETT   16 325	967	4.	=	- e	-	-	-
NEW ENCL   65 RANKLIN FALES   15 300 389   15 15 2 1 1 1	NEW ENGL   66 FRANKIN FALIS   15 300     NEW ENGL   67 HOWINTON   6 370     NEW ENGL   105 HOWINTON   19 670     NEW ENGL   105 BALL MOUNTAIN   8 495     NEW ENGL   10 BALL MOUNTAIN   10 806     NEW FORL   17 NORTH HARITAND   24 50     NEW YORK   17 MATERBURY   2 NEW YORK   17 MATERBURY   2 NEW YORK   17 MATERBURY   2 NEW YORK   17 MATERBURY   18 612     2 NEW YORK   17 MATERBURY   18 612     3 PHILADEL   310 FRANCIS   12   15     3 PHILADEL   310 FRANCIS   11   12     4 BALT HORD   27 ALMONO   6   1229     4 BALT HORD   20 WHINKY POINT   19   10     4 BALT HORD   30 SAVAGE   10   10     4 BALT HORD   310 FAVERS   8 LANCHAR   10     4 BALT HORD   310 FAVERS   8 LANCHAR   10     5 BALT HORD   310 FAVERS   8 LANCHAR   10     6 WILMING   322 JOHN H KERR   24     6 WILMING   322 JOHN H KERR   501     6 WILMINGS   322 JOHN H KERR   501     7 CHARLEST   322 JOHN H KERR   501     11 970	418	91	5	7	-	-	-
NEW ENCL   167 HOPKINION   5 370	NEW ENCL   167 HOPKINION   6 370   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186   186	389	2	15	2	-	-	_
NEW ENGL   168 GUTER BAOON	NEW EGG, 168 GUTER BROOK   13 670     NEW EGG, 169 SURRY MOUNTAIN   6 485     NEW EGG, 170 BALL MOUNTAIN   10 806     NEW EGG, 170 BALL MOUNTAIN   10 806     NEW EGG, 173 NORTH SPRINGFIELD   7 450     NEW EGG, 173 NORTH SPRINGFIELD   7 450     NEW FORT 173 NORTH SPRINGFIELD   7 450     NEW YORK 177 WATERBURY   24 50     SPHILADEL 370 BELTZVILLE   8 612     SPHILADEL 370 BELTZVILLE   18 501     SPHILADEL 370 PELTZVILLE   18 501     SPHILADEL 370 PELTZVILLE   19 501     SPHILADEL 370 PELTZVILLE   19 501     SPHILADEL 370 PELTZVILLE   19 501     SPHILADEL 370 PELTZVILLE   19 501     SPHILADEL 370 PELTZVILLE   19 501     SPHILADEL 370 PELTZVILLE   19 501     SPHILADEL 370 PELTZVILLE   19 501     SPHILADEL 370 PELTZVILLE   19 501     SPHILADEL 370 PELTZVILLE   19 501     SPHILADEL 370 PELTZVILLE   19 501     SPHILADEL 370 PELTZVILLE   19 501     SPHILADEL 370 PELTZVILLE   19 501     SPHILADEL 370 PELTZVILLE   19 501     SPHILADEL 370 PERTZVILLE   19 501     SPHILADEL 370	416	9	•	7	-	-	_
NEW ENGL 169 SURRY MOUNTAIN   6 485 550 6 6 6 8 2   1   1     NEW ENGL 170 MAIL MOUNTAIN   10 806 1077 10 10 2   1   1     NEW ENGL 173 NORTH HARTLAND   1 450 546 7 7 7 7 7 7 1   1   1     NEW ENGL 173 NORTH HARTLAND   1 450 546 9 9 9 3 3   1   1     NEW ENGL 173 NORTH HARTLAND   2 6 46 9 9 9 3 3   1   1     NEW ENGL 174 NORTH HARTLAND   2 6 450 546 7 7 7 2 1   1     NEW ENGL 174 NORTH HARTLAND   2 6 40 1   1   2   2   2   3     NEW YORK 177 WAISHTSVILLE   1   1   1   1   1   1   1   1     NEW YORK 177 WAISHTSVILLE   1   1   1   1   1   1   1   1     NEW YORK 177 WAISHTSVILLE   1   1   1   1   1   1   1   1   1     NEW YORK 177 WAISHTSVILLE   1   1   1   1   1   1   1   1   1	NEW ENGL 169 SURRY MOUNTAIN	781	13	-	-	-	_	_
NEW ENGL 170 BALL MONNTAIN	NEW ENGL 170 BALL MOUNTAIN   10 806	250		4	2	-	-	
NEW EWGL 172 NORTH HARTLAND   9 390 546 9 9 3 1 1 1 1 1	NEW ENGL 172 NORTH HRRILAND   9 390     NEW ENGL 173 NORTH HRRILAND   7 450     NEW FOOK 174 NORTH SPRINGFIELD   7 450     NEW YORK 171 EAST BARRE   24 50     2 NEW YORK 177 WRIGHTSVILLE   18 50     3 PHILADEL 307 ERETZVILLE   18 50     3 PHILADEL 307 FRANCIS E WALTER   23 1250     4 BALT INDA 229 HHITEK POINT   8 950     4 BALT INDA 309 HITEK POINT   8 950     4 BALT INDA 309 SAVAGE   13 126     5 BALT INDA 309 BLOODINGTON   12 156     6 WILMINGT 223 B EVERET JORGAN (NE 18 19 3     6 WILMINGT 323 B EVERET JORGAN (NE 18 19 3     6 WILMINGT 323 B EVERET JORGAN (NE 18 19 3     6 WILMINGT 323 B EVERET JORGAN (NE 18 19 3     6 WILMINGT 323 B EVERET JORGAN (NE 18 19 3     6 WILMINGT 323 B EVERET JORGAN (NE 18 19 3     6 WILMINGT 322 W KERN SCOTT   11 970	1017	9	, 5		-	-	
NEW ENGL   173 NORTH SPRINGFIELD   7 450 446   7 7 5 2 1   1   1   1   1   1   1   1   1   1	NEW ENGL   173 NORTH SPRINGFIELD   7 450     NEW ENGL   174 NOWNSHEND   7 450     2 NEW YORK   17 EAST BARF   2   125     2 NEW YORK   176 WATERDWING   2   125     3 PHILADEL 307 BELTZVILLE   8   912     3 PHILADEL 307 BELTZVILLE   18   501     3 PHILADEL 318 FRANCIS   4 ALTINOR 227 ALMONO   6   125     4 BALTINOR 229 WHINEY POINT   6   122     4 BALTINOR 320 WHINEY POINT   6   122     4 BALTINOR 320 WHINEY POINT   1   1     4 BALTINOR 320 COUNTRING   1   1     5 BALTINOR 320 STILLWATE   1   1     5 BALTINOR 320 STILLWATE   5     6 BALTINOR 320 STILLWATE   5     6 BALTINOR 320 STILLWATE   5     6 BALTINOR 320 STILLWATE   5     6 BALTINOR 320 STILLWATE   5     6 BALTINOR 320 STILLWATE   5     6 BALTINOR 320 STILLWATE   5     6 BALTINOR 320 STILLWATE   5     6 BALTINOR 320 STILLWATE   5     6 BALTINOR 320 STILLWATE   5     6 BALTINOR 320 STILLWATE   5     6 BALTINOR 320 STILLWATE   5     6 BALTINOR 320 STILLWATE   5     6 BALTINOR 320 STILLWATE   5     6 BALTINOR 320 STILLWATE   5     6 BALTINOR 320 STILLWATE   5     6 BALTINOR 320 STILLWATE   5     6 BALTINOR 320 STILLWATE   5     6 BALTINOR 320 STILLWATE   5     7 CHARLEST 232 W KERN SCOTT   11   970	9	٥	• •		•	•	
THE ENGL   174 TOWNSHEND	MEM FORK 171 EAST BARRE   20 NEW YORK 171 EAST BARRE   20 NEW YORK 177 WRIGHTSVILLE   20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW YORK 20 NEW 2			•	2	-	-	
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6 PITTSEUR 339 CONFERUGR RIVER   13 B4B 966   10     6 PITTSEUR 339 CONFERUGR RIVER   16 B03 946   11     6 PITTSEUR 311 EACT RRAWLA CLARION 24 1523 7077	01v1S10N	DISTRICT	PRC	JUECT	ELEV	ELEV	ELEV	AREA	ķ	CODES		LENGTH	HIOIM	SHORE
FILTSBUR 309 GROD-ED CREEK	4 ORD	PITTSEUR	306	CONFERENCH RIVER	13	848	986	101	-	4	2	7	-0	
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6   PITTSBUR 317   LOYAHANA   1   3   865   983   10   11   11   11   12   12   12   12	4 ORO	16 PITTSBUR	Ē	EAST BRANCH CLARION	24	1523	1707	5	2	ch	•	n	-	-
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6 PITT SEUR 319 SHERM	4 020	P11158U	315	MAHONING CREEK	15	1008	1170	Ξ	13	9	-	a	-	•
	4 ORD	P111 SEU	33	SHEWAYCO RIVER	7	188	919	S	7	9	•	4	٥	-
FILTSBUR 329 WOUGHLCCHENY RIVER   17   1313   1497   14   1580   1227   10   10   11580   1227   10   10   10   10   10   10   10   1	4 ORD	16 PITTSBUR			15	1043	1 197	12	7	2	-	2		
FILTSBUR 322 WODGCOCK	4 GRU	16 PITT SEUR		N YOUGHICCHENY RIVER	1.7	1313	1497	14	91	9	-	-	-	_
FILTS GURD 333 KLLECHENY (KINZUA)   6   1195   1365   137	4 ORD	16 PITTSBUR			14	1138	1227	10	=	7	•	e	۰	•
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17 HUNTINGT 123 DEMEY   16 670 646   2   17 HUNTINGT 123 DEMEY   16 670 645   9   17 HUNTINGT 123 GARENGO   16 670 645   9   17 HUNTINGT 124 GARENGO   18   14   14   16   19   10   11   11   11   11   11   12   12	4 ORD	16 FITTSBUR		1 TYGART	9	960	1190	13	5	-	_	m	-	<b>-</b>
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7 HUNTING 239 PAINO CREEK	2	17 HOST INCT			0	٥	0	0	0	٥	0	0	0	0
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THUMINGS 245 CHREE MILL   8   931   995   3   3   4   4   4   4   4   4   5   5   5   5	3 ORU	17 HUNTINGS	•	_	~	830	955	~	4	9	-	-	-	-
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17 HUMTINGT 249 DILLOW   12 700   818   7	ORD	17 HUNI ING!	240		9	830	95.7		•		· •		• -	
17 HUNTINGT 251 LEESVILLE   5 526 978   1   1   1   1   1   1   1   1   1	ORD	17 HUNT INGT			2	700	818			۸ (		-	-	-
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17 HUMTINGT 256 PLEASANT HILL   7 972   1045   2   17 HUMTINGT 259 RNECALILE   7 810 857 3 3   3   3   3   3   3   3   3   3	ORD	17 HUNT INGT	255		ď	882	300	. <b>.</b>	4	•	• 0	•	• •	٠.
17 HUMTING 127 SENECATILLE   7 810 857 3 3 1	080	17 HUNTINGT	256	PLEASANT	,	615	1010	٠,	4	r (4	• -	• -	•	
7 HUNITICE 259 TAPERIN   6 870 909 1	080	17 HUNT 11431	257	SENFOAU		1	1000	•	1		-			-
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7 HUNTINGS 373 JOHN K FLANMAGAN   12   1210   1470   17   17   17   17   17   17   17	080	17 HUN1 INGT			8	733	000	,	-	,	-  -	-	- 6	,
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7 HUMITIGE 399 EAST LYNN   4 653 701   7 HUMITIGE 391 SUNTESSVILLE   8 1375 1711   7 HUMITIGE 392 SUNTESSVILLE   8 1375 1711   7 HUMITIGE 392 SUNTESSVILLE   9 32 963   7 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HUMITIGE 40 HU	000	4.7 MILITAGE	0			0 10 1	100	2	2		-		>	
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	MARION REDAGO TORONIO BROOKIN BOW CROUTEAU EUFAULA FORT SUPPL GREUS SALT HEYBURN KEYSTONE MEWT GRAHA	4 6 2	917	986	8	<b>æ</b>	2	-	0	0	-	
	MARRION BROKEN BOW CCANTON CLOUTEAU EUFOULA FORT GIBSO FORT SUPPL GREAT SUPPL HEYBURN HEYBURN HEYBURN HEYBURN HEYBURN HEYBURN HEYBURN HEYBURN HEYBURN HEYBURN	2	1009	1082	Ξ	=	9	7	-	-	-	
	BROWNED BOW CHOUTEAU CHOUTEAU CHOUTEAU CHOUTEAU CHOUTEAU CHOUTEAU CHOUTEAU CREAT SALT HIEYBURN CHOUT GRAHA	-	1308	1363	6	10	S)	٥	•	0	-	
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************	CHOUTEAU EUFAULA FORT GIBSO FORT SUPPL GREAT SALT HEYBURN HULAH KEY STONE	12	1590	1648	0	8	s	ď	-	-	-	
**********	EUFAULA FORT GIBSO FORT SUPPL GREAT SALT HEYBURN HULAH KEYSTONE NEWT GRAHA	14	480	530	14	-	0	0	0	0	0	
	FORT GIBSO FORT SUPPL GREAT SALT HEYBURN HULAH KEYSTONE NEWT GRAHA	13	495	612	2	2	9	~	-	_	-	
	FORT SUPPL GREAT SALT HEYBURN HULAH KEYSTONE NEWT GRAHA	7	547	582	7	•	S	-	•	•	-	
*********	GREAT SALT HEYBURN HULAH KEYSTONE NEWT GRAHA	12	1997	2060	0		s	-	-	-	-	
	271 HEYBURN 272 HULAH 273 KEYSTONE 274 NEWT GRAHAM	11	1115	1169	7	~	S	-	-	-	_	
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7 SWD	56	FORT MOR	350	NAVA RO MILLS	1.7	390	4:7	-	14	9	e	-	-	-
7 SWC	56	FORT NOR	1 358	PROCTUR	14	1120	1.01	ç	2	r	8	-	-	-
7 SWD	56	FORT NOF	435 €	359 SAM RAYBURN (NC CEE	20	0.8	190	15	- (1	- 4	-	-	-	_
7 SWD	56	FORT MUS	360	O C FISHER ISAN ANGE	24	1840	1954	9-	2	9	e	-	-	-
7 SWD	56	FORT WOR	361	SOMENILLE	8	200	280	7	16	9	~	-	-	-
7 540	36	FORT WOR	362	STILLHOUSE HOLLOW(LA	19	438	869	15	5	4	-	_	-	_
7 SWD	56	FORT NO	363	WACO	2	007	510	o	0	7	7	-	-	-
7 SWD	56	FORT MCR	361	364 WHI INEY	1.	425	584	Ξ	12	<b>œ</b>	-	-	-	-
7 SwD	°,	FORT MGR	176 4	B A STEINHAGEN (TOWN	=	0.0	66	٠	9	-	-	-	-	0
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7 SWD		ALBUQUER	219	CONCHAS	6	4071	4235	6		• •	m	-	-	-
J SWD	5.8	ALBUQUER	407	28 ALBUQUER 407 TRINIDAD	9	6081	6281	2	2	7	~	-	-	-
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8 MRD	58	MANSAS C			5	958	1073	14	4	ហ	~	a	8	-
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a URO	5	25 KANSAS C	194		6	750	874	16	17	4	-	-	٥	_
G 18.50	29	29 444545 C	196		-	760	892	<u>.</u>	13	s	•	-	0	-
C EN 3	5.5	KANSAS (	207	HARLEN COUNTY	4:	1830	1982	2	12	S	-	-	-	-
G NiRD	30	Olaha	- 5	CHERRY CREEK	2.1	5523	5640		18	6	-	-	0	-
8 MRD	30	OhamA	203		18	2030	2281	5		7	~	-	-	-
8 MR.0	9	OMINA	208		4	1310	1357	4	12	3	-	-	٥	0
6 MRD	30	ONTHA	203		13	1276	1332	9	16	e	-	-	0	•
B MRD	30	CHAHA	210	WAG DR TRAIN	15	1256	1309	5	5	6	-	-	٥	0
6 KRD	30	Cizaha	2	STAGECOACH	9	1248	1291	15	15	3	-	-	•	0
B S.RO	30	CMAHA	212	YANKEE HILL	15	1219	1207	2	5	c	-	-	۰	0
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8 KRD	30	CMAHA	214	ZIEL -	17	1306	1361	16	191	3	-	•	٥	٥
GR'RD	30	O:14H A	215	. PAWNEE	16	1206	1269	5	15	m	-	-	٥	•
0 K:4 B	30	OLIAHA	216	HOLHES PARK	17	1216	1209	9	16	e	-	-	٥	0
8 K.2D	30	CHARGO	217		11	1250	1317	91	9	63	-	-	0	0
E THE	30	CGAHA	234		-	2715	2781	a	2	Ś	~	•	٥	-
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Q d	33 FORTLAND		296 FALL CREEK	2	670	639	10	10	7	-	-	-	-	
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	34 SACREMEN	EN.	28 ISABELLA	4	2455	2634	=	=	100	-	-	-	-	
	34 SACREMEN	.,	30 MARTIS CREEK	 	5745	5853	2	6	4	7	-	٥	0	
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	34 SACREMEN		33 PINE FLAT	5	560	970	4	14	•	-	-	-	-	
	34 SACRESTEN	11.	the success		538	692	9	2	9	-	-	-	0	
10 SFG	34 SACREVEN		37 KAWEAH (TERMINUS)	9	205	150	5	13	9	-	-	-	•	
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Inventory of USGS Hydrologic Data

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INVENTORY OF USGS MONTHLY HYDROLOGIC DATA

## 10 29 KANSAS & C 100 STOCKER   1 100 6410   1991   1 1 2 710   1 144 6510   7779   1 140 6510   7779   1 140 6510   7779   1 140 6510   7779   1 140 6510   7779   1 140 6510   7779   1 140 6510   7779   1 140 6510   7779   1 140 6510   7779   1 140 6510   7779   1 140 6510   7779   1 140 6510   7779   1 140 6510   7779   1 140 6510   7779   1 140 6510   7779   1 140 6510   7779   1 140 6510   7779   1 140 6510   7779   1 140 6510   7779   1 140 6510   7779   1 140 6510   7779   1 140 6510   7779   1 140 6510   7779   1 140 6510   7779   1 140 6510   7779   1 140 6510   7779   1 140 6510   7779   1 140 6510   7779   1 140 6510   7779   1 140 6510   7779   1 140 6510   7779   1 140 6510   7779   1 140 6510   7779   1 140 6510   7779   1 140 6510   7779   1 140 6510   7779   1 140 6510   7779   1 140 6510   7779   1 140 6510   7779   1 140 6510   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779   7779	DIVISION	NOI	DISTRICT	<b>a</b>	PROJECT	STNS #	ONTHS !	STNS MONTHS DFIRST	DLAST	STNS 1	STAS MONTHS DEIRST	DFIRST	DLAST	STNS IN	SINS MONINS DEIRST	ITS	DLAST
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31 WALLA WA 77 DWORSHAK  31 WALLA WA 78 LUCKY PEAK  31 WALLA WA 78 LUCKY PEAK  31 WALLA WA 78 LUCKY PEAK  31 WALLA WA 78 LUCKY PEAK  31 WALLA WA 79 LUCKY PEAK  31 WALLA WA 79 LUCKY PEAK  31 WALLA WA 79 LUCKY PEAK  31 WALLA WA 79 LUCKY PEAK  31 WALLA WA 79 RIGE  32 SEATILE BOA WORNANUSAL (LBBY)  32 SEATILE CAN KNORNANUSAL (LBBY)  32 SEATILE CAN KNORNANUSAL (LBBY)  33 SEATILE CAN WORNANUSAL (LBBY)  34 SEATILE CAN WORNANUSAL (LBBY)  35 SEATILE CAN WORNANUSAL (LBBY)  36 SEATILE CAN WORNANUSAL (LBBY)  37 SEATILE CAN WORNANUSAL (LBBY)  38 SEATILE CAN WORNANUSAL (LBBY)  39 SEATILE CAN WORNANUSAL (LBBY)  30 SEATILE CAN WORNANUSAL (LBBY)  30 SEATILE CAN WORNANUSAL (LBBY)  31 SEATILE CAN WORNANUSAL (LBBY)  32 SEATILE CAN WORNANUSAL (LBBY)  33 PORTLAND CAN WORNANUSAL (LBBY)  34 SEATILE CAN WORNANUSAL (LBBY)  35 SEATILE CAN WORNANUSAL (LBBY)  36 SEATILE CAN WORNANUSAL (LBBY)  37 SEATILE CAN WORNANUSAL (LBBY)  38 PORTLAND CAN WORNANUSAL (LBBY)  39 PORTLAND CAN WORNANUSAL (LBBY)  30 PORTLAND CAN WORNANUSAL (LBBY)  31 PORTLAND CAN WORNANUSAL (LBBY)  32 PORTLAND CAN WORNANUSAL (LBBY)  33 PORTLAND CAN WORNANUSAL (LBBY)  34 SEATILE CAN WORNANUSAL (LBBY)  35 PORTLAND CAN WORNANUSAL (LBBY)  36 PORTLAND CAN WORNANUSAL (LBBY)  37 PORTLAND CAN WORNANUSAL (LBBY)  38 PORTLAND CAN WORNANUSAL (LBBY)  39 PORTLAND CAN WORNANUSAL (LBBY)  30 PORTLAND CAN WORNANUSAL (LBBY)  31 PORTLAND CAN WORNANUSAL (LBBY)  32 PORTLAND CAN WORNANUSAL (LBBY)  33 PORTLAND CAN WORNANUSAL (LBBY)  34 SEATILE CAN WORNANUSAL (LBBY)  35 PORTLAND CAN WORNANUSAL (LBBY)  36 PORTLAND CAN WORNANUSAL (LBBY)  37 PORTLAND CAN WORNANUSAL (LBBY)  38 PORTLAND CAN WORNANUSAL (LBBY)  39 PORTLAND CAN WORNANUSAL (LBBY)  30 PORTLAND CAN WORNANUSAL (LBBY)  31 PORTLAND CAN WORNANUSAL (LBBY)  32 PORTLAND CAN WORNANUSAL (LBBY)  33 PORTLAND CAN WORNANUSAL (LBBY)  34 PORTLAND CAN WORNANUSAL (LBBY)  35 PORTLAND CAN WORNANUSAL (LBBY)  36 PORTLAND CAN WORNANUSAL (LBBY)  36 PORTLAND CAN WORNANUSAL (LBBY)  37 PORTLAND CAN WORNANUSAL (LBBY)  38 PORTLAND CAN WORNANUSAL (LBBY)  39 PORTLAND CAN W	æ ₹	۵		4	_	-	168	6410	7809	•	•	•	٥	٥	•	•	•
31 WALLA WA 77 BLOKAY PEAK 31 WALLA WA 78 LUCKY PEAK 31 WALLA WA 78 LUCKY PEAK 31 WALLA WA 79 REFEE 31 WALLA WA 79 REFEE 31 WALLA WA 79 REFEE 32 SEATILE 60 ALBENI FALLS (PEND 0 1 40 6510 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				ŀ											1		-
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32 SEATILE 204 MOGNANUSA(ILBBY) 1 136 6710 7901 1 72 6410 7009 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 1					-	168	6410	7809	•	•	•	•	0	0		•
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INVENTORY OF USGS MONINLY HYDROLOGIC DATA

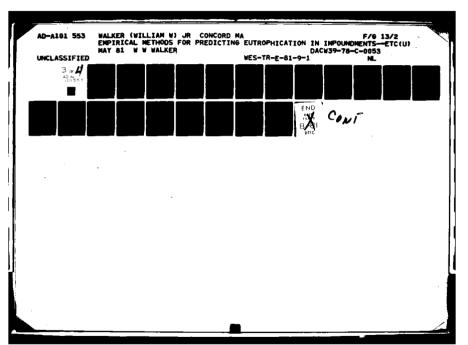
... NUMBER OF PROJECTS WITH ONE OR MORE ENTRY BY DISTRICT ...

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#### Table A4

Inventory of Water Quality Data by Station Type

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NED	NEW	ENGL	151	BLACK ROCK	7	3532	•	0	-	2	-	2270	10	0		590
NED	NEE	ENGL		COLEBROOK RIVER	-	2137	٥	٥	٥	٥	-	1049	•	0	ď	318
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NED	- NEW	ENGL	_	NORTHFIELD BROOK	-	1913	•	1972	•	780	-	2199	•	•	9	989
NEO	NEW	ENGL		WEST THOMPSON	6	2973	-	1936	-	4162	6	2483	•	•	-	1155
NED	NEE	ENGL	164 El	EDWARD MCDOWELL	~	3126	٥	•	٥	٥	-	1997	۰	•	6	512
NED	- XEE	ENGL	165 E	EVERETT	~	1407	0	0	0	0	-	2111	٥	0	6	351
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#### Table A5

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3 SAD	10 MGB	MOBILE	-	CLA 1 BORNE		6	33	770824	1 780928	6	9	770824	771208			34	34 770824 780928	78092
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8 9 9		315	MAHONING CREEK	-	G)	730719		0	•	0	0	~		740613	740613
9 9 9	PITTSBUR	317 5	SHENANGO RIVER	10	217	720523		6	9 73	730420	731008	13	33	730420	770609
9 9	PITTSBUR	318	TIONESTA	9	1 9	9 730621		0	•	0	0	m	en.	740702	750714
9		319	YOUGHIDGHENY RIVER	ĸ		730508		0	0	0	0	•		730815	750618
		322	MOODCOCK	•	305	740528	•	0	0		0	•		750814	170614
040		328	ALL EGHENY (KINZUA)	5	393	393 660105	• • •	-	12 73	730420	731005	9	175	730420	150604
16	PITTSBUR	393	TYGART	•	255	730423	780718	•	9 73	0423	730423 731005	2	8	730423	740925
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1	TON T ENGT	_	GREENUP 1 /D	10				0	0	10	0	0	0		
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-			ATWOOD	•	6			•	12 73	730420	731008	5	7	730420	760830
-	HUNT ING!	_	BEACH CITY	-	9	730420		-	3 73		731006	-		730420	131006
4 CHO 17 H	ACMT ING!	245	CHARLES MILL	'n	36	730420	780808	•	9 73	730420	731006	4	=	730420	780808
1.	HUNT INGT	246	CLENDENING	2	7.0	740820	718087		٩	0	0	-	~	760427	760903
1 080 17 H	TUNT INGT	247	DEER CREEK	7	118	730428		C	8 73		731010	•	2	730428	750912
4 ORD 17 H	<b>FUNT INGT</b>	248	DELAWARE	v	85	130426	•-	m			731010	<b>n</b>	0	730426	731010
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	Series Series	222	BOWN DAR TOW DENKINS	1	75	140823	800122	-	; >   	- 	-				
1 1 1	TON LANGE		HOLD CALL ANALYS	ç		730405	•	•	11 73	730405	730927	•	2	730405	730927
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-	HUNT INGT	_	BLUESTONE		-	730403		•	10 7	730403	730926	4	9	730403	730926
17.	TONT ING!	_	EAST LYNN	10	21	730213	780804	0	0	•	0	•	0	•	٥
4 ORD 17 H	HUNT INGT	391	SUMMERSVILLE	•	134	730403		-	12.73	730403	730928	\$	=	130403	730928
-	TUNT INGT	392	SUTTON	•	123	740320	780712	•	0	0	0	•	0	•	
4 ORD 17 H	<b>LUNI INGT</b>	394	WINFIELD	0	•	•	•	0	0	0	0	•	0	0	
17.	HUNT INGT	406	MOH I CANVILLE	٥	a		0	a	0	0	a		0	0	
4 080 17 H	HUNT INGT	416	ALUM CREEK	•	108	750615	780820	•	•	•	•	-	~	760413	760827
1 040 A	LOUISVIL	9	CAGIES WILL		152	710727	152 710727 780405	-	39 73	39 730620	770803	e	117	710727	771121
	LOUI SVIII		MOTON TINGTON		102	02 71110	771108		15 73		770720	~	56	710713	771108
	TOOL SVIL	6	MISSISSIMENA		150	710630		•	31 73	10503	31 730503 770721	•	73		771109
	NAS ING	5	MONBOE	•	244		780418	•	57 73	0150	57 730510 770822	đ	154	210603	271129
4 OFF	OUT SVIL	3	SALAMONIE	-	2		711005 780411	-	16 74	740625	770512	•	2		771108

000000000000000000000000000000000000000		PROJECT	ECT	NSTA NOB	NOBS	NOBS DETRET	DLAST	NSTA	NSTA NOBS DF1RST	NOBS DF1R51	DLAST	NSTA	NOBS	NSTA NOBS DETRET	DLAST
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080	18 1001 SV1L	97	PRODKVILLE	7	190		-	•	32	740605	170921	•	7.7	740328	771116
080	18 1001 SVIL	1 20	BARREN RIVER	4-	317		780329	=	7	730518	709077	20		710615	771101
080	18 1001 SVIL	121	BUCKHORN	7	125			•	9	731030	106011	'n	146	710608	771027
080	18 LOUI SVIL	126	GREEN RIVER	•	160	160 701012		6	2	730918	770913	'n	179	710602	771115
080	18 LOUI SVIL	128	NOL IN RIVER	-	166	730319		•	34	740418	770927	10	173	710617	771108
	18 tout Svit	129	ROUGH RIVER	-	156	730316		•	Ç	711024	770920	9	194	710720	771026
2 20 5	18 LOUISVIL	134	CAVE RUN	-	= 5			~	23	740710	770921	0	52	740326	771020
4 080	18 LOUI SVIL	260	WEST FORK OF MILL	- X	103	740429		-	ø	740906	770818	-	27	740710	771121
A ORD	18 LOUISVIL	263	CLARENCE J BROWN		185			~	9	740604	770927		5	740424	711117
000		:								10000	100100		,		1001001
	TA MESHATEL	~ ;	BAKKLEY		700	- 1				2000	02/00/	-	6	1014	97/09/
4 ORD	19 NASHVILL	122	CUMBERLAND (WOLF CRE	CRE	6			6	27	730529	270803	-	200	710427	770803
ORD	19 NASHVILL	334	CENTER HILL	•	125	71072B		₹ '	2	760406	760406	•	6	710527	750406
4 ORD	19 NASHVILL	338	CHE ATHAM	4	139	210708		8	6	730521	780719	12	3	710708	780719
4 ORD	19 NASHVILL	340	J PERCY PRIEST	11	706	706 710722		9	401	730521	781012	-1	391	710225	781012
4 080	19 NASHVILL		DLD HICKORY	-	163	163 710707		•	23	730522	780711	~	57	7107017	780711
4 ORD	19 NASHVILL	343	DALE HOLLOW	5	227	710712	770802	٩	33	730518	770807	16	106	710429	770802
	20 67 . 00.26		M (> 104)	•		10000	91016			7.308.08	121010	•	•	130808	931010
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	, ,	D 0	SMELDIVILLE		7		910167	-	1	130508	731010	•	25	130500	731016
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6 LMVD	21 MEMPHIS	961	196 WAPPAPELLO	4	45	45 740409 741008	741008	4	12	12 740409 741008	741008	•	12	740409	741008
		-				1		-				-	-		
6 LMVD	22 VICKSBUR	7	DE GRAY	•	87		740325 741017	•	20	720505	741017	9	20	720505	741017
6 LMVD	22 VICKSBUR	90	GREESON (NARROWS)	0	a	٥	•	a		0	٥	0	٥	0	•
6 LINVO	22 VICK SBUR	5	<b>DUACHITA (BLAKELY</b>	Y MT 7	=	740325	780 602	•	8	18 740325	741018	₩	<b>e</b>	740325	741018
6 LMVD	22 VICK SBUR	- 68	ARKABUTLA		5	31 730613	731101	6	o	730613	731101	0	6	730613	731101
e Linvo	22 VICK SBUR	189	ENID	6	35	35 730612 731101	731101	-	6	730612	731101		0	730612	731101
B LMVD	22 VICKSBUR	190	GRENADA	e	4	40 730613 731102	731102	6	0	730613	731102	m	01	730613	731102
G LINVD	22 VICK SBUR	192	SARDIS	₹	53	730613	731101	•	12	730613	731101	•	12	730613	731101
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7 SWD	24 LITTLE R	~	BLUE MOUNTAIN	•	63	63 720817 780926	780926	7	60	74032B	741018	^	42	740328	780926
7 SWD	24 LITTLE R	-	BULL SHOALS	-	3.6	316 670907 781003	781003	•	32	32 740406 741015	741015	20	=	740406	781206
7 SWD	24 LITTLE R	9	GREERS FERRY	10	309	309 740327 791204	791204	-	9	6 740327	741017	12	180	80 740327 791105	291105
7 SWD	24 LITTLE R	-	DARDANELLE	-	6	9 720918 721002	721002	0	•	0	•	•	•	0	•
7 SWD	24 LITTLE R	5	MIMROD	Ξ	86	721004	780926	~	•	740327	741018	•	93	740327	780926
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7 Swb	1	28 ALBUOUER			ABIOUTU	-	1				100	750525	780478		-	750501	7811
7 SWD		28 ALBUQUER		219	CONCHAS	-	9.1	•	2 780627	•	20	750501	780627	2	9	741016 79021	7902
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In accordance with letter from DAEN-RDC, DAEN-ASI dated 22 July 1977, Subject: Facsimile Catalog Cards for Laboratory Technical Publications, a facsimile catalog card in Library of Congress MARC format is reproduced below.

Walker, William W.

Empirical methods for predicting eutrophication in impoundments: Report 1: Phase I, data base development / by William W. Walker, Jr. (Environmental Laboratory, U.S. Army Engineer Waterways Experiment Station). -- Vicksburg, Miss.: The Station; Springfield, Va.: available from NTIS, [1981].

153, 55 p.: ill.; 27 cm. -- (Technical report / U.S. Army Engineer Waterways Experiment Station; E-81-9). Cover title.
"May 1981."

"Prepared for Office, Chief of Engineers, U.S. Army, under Contract DACW 39-78-0053, EWQOS Work Unit IE."
"Monitored by Environmental Laboratory, U.S. Army Engineer Waterways Experiment Station."
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1. Computer programs. 2. Eutrophication. 3. Mathematical models. 4. Prediction theory. 5. Reservoirs.

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TA7.W34 no.E-81-9

AD-A101 553 EMPIRICAL METHODS FOR PREDICTING EUTROPHICATION IN IMPOUNDMENTS REPORT 1. (U) MALKER (MILLIAM M) JR CONCORD MA M MALKER MAY 81 MES-TR-E-81-9-1 DACM39-78-C-0053 F/G 13/2

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## SUPPLEMENTARY

INFORMATION



#### DEPARTMENT OF THE ARMY

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REPLY TO ATTENTION OF WESEV-I

11 March 1985

#### Errata Sheet

No. 2

### EMPIRICAL METHODS FOR PREDICTING EUTROPHICATION IN IMPOUNDMENTS

Report 1

PHASE I: DATA BASE DEVELOPMENT

Technical Report E-81-9
May 1981

Page 139, Equations 33 and 34: change  $(L_k - \hat{L}_{jk})$  to  $(\hat{L}_{jk} - L_k)$ .

# END

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