

RESEARCH PROJECT COMPLETION REPORT

# CLASSIFICATION OF IDAHO'S FRESHWATER LAKES

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Prepared for The Idaho Department  
of Health and Welfare, Division of Environment

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## TABLE OF CONTENTS

	Page
LIST OF FIGURES . . . . .	
LIST OF TABLES. . . . .	
INTRODUCTION. . . . .	1
Project Objectives . . . . .	2
Summary of Project Results . . . . .	2
Structure of the Report. . . . .	6
RESEARCH METHODOLOGY AND DATA . . . . .	7
Lake Inventory . . . . .	7
85-Lake Subsample. . . . .	8
Literature Review. . . . .	9
Data Search. . . . .	11
Economic Variables . . . . .	13
Sociological and Recreational Variables. . . . .	16
Watershed and Limnological Variables . . . . .	17
Low-Level Aerial Photography Data. . . . .	19
Trophic Status and Prioritization of Lakes . . . . .	21
TROPHIC STATUS CLASSIFICATION OF LAKES. . . . .	23
TSI Development. . . . .	23
Factor Profiles. . . . .	32
Trophic Status Classification. . . . .	32
Nutrient Loadings. . . . .	36
Trophic Capacity and Other Factors . . . . .	37
LAKE PRIORITY CLASSIFICATION. . . . .	38
Criteria . . . . .	38
Priority Groupings . . . . .	39
Development and Rationale of Lake Prioritization Scheme. . . . .	46
Priority Classification Rules. . . . .	53
Discussion of the Six P-1 Category Lakes . . . . .	57
APPENDIX A - Master List of Idaho Lakes and Reservoirs. . . . .	A-1
APPENDIX B - Lake and Watershed Data for the 85-Lake Subsample. . . . .	B-1
APPENDIX C - Lake Bibliography. . . . .	C-1
APPENDIX D - Descriptions of Priority 2-5 Lakes . . . . .	D-1
APPENDIX E - Selected Correlation Matrices for the 85-Lake Subsample. . . . .	E-1
APPENDIX F - Determination of Nutrient Transport at Selected Idaho Stream Stations. . . . .	F-1

LIST OF FIGURES

Figure	Page
2-1 Model of Lake Study Methodology . . . . .	22
3-1 Scatter Diagram Relationship Between N:P Ratio and Lake Turbidity . . . . .	27
3-2 Scatter Diagram Relationship Between N:P Ratio and Lake Alkalinity. . . . .	28
3-3 Scatter Diagram Relationship Between Percentage of Watershed Land Use in Agriculture and Depth of the euphotic Zone. . . . .	29

## LIST OF TABLES

Table	Page
2-1 Selection of Lakes for the Subsample. . . . .	8
2-2 Lakes Sampled During Summer, 1981 . . . . .	10
2-3 Lakes Scheduled for Sampling but Not Visited. . . . .	10
2-4 Idaho Lakes Study Lakes for Which Some Prior Data are Available for Trophic Status Assessment . . . . .	12
2-5 Watershed and Lake Descriptors Sought For Use in Lake Classification. . . . .	14
2-6 Idaho Lake Overflights, August 1981 . . . . .	20
3-1 Water Quality/Lake Condition Variables Identified for Each of the 85 Study Lakes. . . . .	24
3-2 Lake Data Grouping for Correlation Analysis of Selected Variables . . . . .	26
3-3 Eleven Parameters Used in Composition of Trophic Status Index. . . . .	31
3-4 Sequential Listing and Trophic Classification of 85 Lakes by Trophic Status Index (TSI). . . . .	34
4-1 Priority Classifications of 85 Lake Subsample . . . . .	40
4-2 Summary Information Used In Determining Lake Priorities . . . . .	47
4-3 Load Capacity Index as Related to Mean Depth. . . . .	50
4-4 Lake Use Potential Index Related to Lake Use Potential . . . . .	50

CHAPTER I  
INTRODUCTION

There are more than 1300 individually named freshwater lakes in the State of Idaho, most of them larger than 50 surface acres. These freshwater lakes include reservoirs, natural lakes, publicly- and privately-owned bodies of water. A large number of these lakes are used primarily for recreation by residents and non-residents; other lakes have principal uses that include irrigation water storage, power generation, flood control and water supply. Most lakes have secondary, multiple-use dimensions that are too important to ignore. The fundamental problem is that many lakes exhibit a deteriorating water quality resulting from watershed activities, direct shoreline development, lake use, natural factors, or all of the above.

The eutrophication problem in Idaho lakes, while recognized, has not been systematically documented and studied. It is important to collect and study data to allow an appropriate definition of trophic conditions so that a study framework may be developed. Lakes may then be examined to determine benefits, costs and priority of steps that might be considered in the maintenance or recovery of high quality condition. Clearly, some lakes may have problems of low priority either because they are the result of natural factors outside of management control or because the mitigative costs would be greater than derived benefits.

It is important to document deteriorating quality of Idaho lakes so that steps may be taken to maintain or recover high quality lake conditions. Idaho has been experiencing rapid growth and many of the

problems in high-quality lakes may not be recognized before the status of the lakes involved is seriously impaired. A scientifically-based lake classification system is a first and necessary step towards an active and well-conceived policy for monitoring lake conditions and studying management alternatives.

This study had three general goals:

1. To develop a working definition of lake quality or trophic status for Idaho lakes.
2. To develop a procedure for incorporating descriptive data in a lake prioritization scheme for management actions.
3. To complete a priority ranking for a representative sample of Idaho lakes.

#### Project Objectives

Specific objectives in this research were:

1. To define the population of lakes in the State of Idaho.
2. To develop a representative sample of lakes to be studied further.
3. To collect descriptive data for the lakes and associated watersheds in the study sample.
4. To develop a trophic status classification methodology for the lakes and to apply this methodology to the study sample; and,
5. To develop and apply a priority ranking system which distinguishes lakes on the basis of lake and watershed descriptors.

#### Summary of Project Results

The major results of this study are the development of a trophic status classification methodology, the trophic status rankings or classifications of 85 lakes and reservoirs, the development of a



priority classification methodology, and priority rankings or assignments of 85 lakes and reservoirs. The trophic status classification methodology, while based on similar trophic status descriptors described in the literature, is unique in that it considers more lake and watershed variables. Unique features include (1) the wide variety of variables describing water quality/lake features and (2) the analysis of these lake conditions in the context of lake groupings which recognize variations in watershed geomorphology and climatic factors controlling chemical transformations and resulting productivity. The trophic status classification methodology is illustrated in this report by application to 85 lakes and reservoirs representing a wide variety of trophic conditions.

The priority classification methodology for determining the level of corrective attention required by a lake provides a framework in which trophic status may be considered with economic and recreational factors to define potential for improved conditions of trophic status controllers. This priority classification framework and methodology are illustrated by application to the 85-lake subsample.

In addition to the above results, the study provides the first complete inventory of named lakes and reservoirs for the State of Idaho. This inventory provides a starting point for the planning of additional work required to complete the trophic status and priority evaluations for remaining lakes in the total population of 1350 or (more importantly) some subset of these 85 lakes identified as critical.

Prior to this study it was widely believed by agency personnel and by project staff that a broad spectrum of data on Idaho lakes

would be available from various sources. This study documents the problems of data availability. For example, lake water-quality data were found to be available for just over 2% of the lakes and reservoirs of Idaho. Similarly, nutrient loading data, morphometric data, hydrologic data, and recreational use data were available for only a very small number of lakes and reservoirs. This unexpected problem with data required a significant reallocation of budget and research effort into field work and an attempt to develop nutrient loadings and morphometric information. For example, a graduate student, under the direction of one of the principal investigators, compiled, over the course of a year, results on nutrient loadings with the conclusion that available data were too sparse and existing methodology involving land-use models for prediction of loadings were (on the basis of actual computations) too unreliable. No other possibilities were found to exist for constructing nutrient loadings for Idaho lakes. The work on morphometric data was equally time consuming but more promising. In fact, morphometric maps were finally developed for 44 of the 85 lakes in the study sample (Appendix D). The trophic status classification methodology and the priority classification schemes described in this report have been developed in recognition of the general paucity of data. Limited data are required to apply the methods described.

It is important to emphasize the conclusion that a lake's trophic status is not sufficient to establish a priority ranking indicating the order in which the lake should be considered for improvement measures. Specifically, many eutrophic lakes are not high on our developed critical list because of significant natural causes of eutrophication, hence little cost-effective action could be taken to improve the current

trophic status or because the costs of any remedial action appear to be far greater than expected benefits. It should be noted, however, that there are eutrophic lakes requiring immediate action which have been assigned high priorities. These lakes were usually lakes identified because of economic significance or because management options are readily available and cost-effective to implement.

This study identifies several high quality lakes whose trophic status appears to be endangered by excessive or uncontrolled development either on their shorelines or in their watersheds. In most cases, these are oligotrophic lakes whose high quality and scenic beauty have attracted use. Identification of these lakes is significant in that protective or preventative measures undoubtedly will be easier and less costly to implement than later corrective measures.

Particularly high correlations were observed among certain watershed factors (expected to be causal in lake eutrophication) and water quality variables in Idaho lakes. Correlation patterns were different depending on the grouping of lakes into samples that isolated lake or watershed conditions expected to produce variations in lake productivity and chemistry. These differences made it inadvisable to use some of the watershed models employed elsewhere in the literature in predicting nutrient loadings. Equally significant, such differences suggest important lines of inquiry for further research aimed at the development of water quality predictor models. Such models could save time and expense in developing trophic status assessments for the many remaining lakes and reservoirs of Idaho.

## Structure of the Report

The following chapters of this report describe the methodology used in the research and provide summary reports of the results. Most data are presented in the appendices.

Chapter II provides a general summary of the work plan followed and details of procedures for data gathering. Chapter III describes the development of a trophic status index and the application of that index to 85 lakes and reservoirs for which data were collected. Finally Chapter IV presents the priority classification framework and methodology along with results of the application to the 85-lake subsample.

Appendix materials are arranged as follows:

Appendix A - Master List of Idaho Lakes and Reservoirs

Appendix B - Lake and Watershed Data for the 85-Lake Subsample

Appendix C - Lake Bibliography

Appendix D - Descriptions of Priority 2-5 Lakes

Appendix E - Selected Correlation Matrices for the 85-Lake  
Subsample

Appendix F - Determination of Nutrient Transport at Selected Idaho  
Stream Stations

CHAPTER II  
RESEARCH METHODOLOGY AND DATA

Lake Inventory

A complete inventory of the natural and man-made lakes in Idaho did not exist prior to this research. Compilation of such an inventory was therefore one of the starting points of this study and is included in this report (Appendix A). The lake inventory is based in part on a search of Metzger County maps for Idaho and in part on a study of U.S. Geological Survey 7 1/2 minute topographic maps. The inventory is presented alphabetically and includes such descriptive and locational information as drainage basin, township and range, county, and national forest in which lake is located and lake size. Identification keys for the codes used in referencing this information are presented in Table A-1.

The drainage basin data for each lake show the hierarchy of streams decreasing in size to the lake outlet stream. These and the other data, were maintained as a computer file. Sorting and adjustment were accomplished with SAS, a Statistical Analysis System Software Package. The SAS data file was maintained on the University of Idaho's IBM 4331 time sharing system and access to the file for sorting, listing and analysis was provided at terminal stations at several campus locations.

A sorted version of the lake inventory was circulated to federal, state, and local agency offices for review and corrections. The inventory finalized listing entitled "Total Population List of Idaho Lakes" is presented in Table A-2.

85-Lake Subsample

The "working list" of lakes, which we refer to as the 85-lake subsample, was developed from the total population list by reference to prior research and information assembled by the investigators and other data collected on lakes over the course of the project study. Out of the total of over 1,300 lakes, 123 were short-listed to form an initial subsample.

Table 2-1. Selection of Lakes for the Subsample

DRAINAGE (1-11)	ESTIMATED TROPIC STATUS	Lake Size											
		< 50 Acres			50-500 Acres			500-5000 Acres			> 5000 Acres		
		LAKE ELEVATION											
		<3000 ft	3-7000 ft	>7000 ft	<3000 ft	3-7000 ft	<7000 ft	<3000 ft	3-7000 ft	<7000 ft	<3000 ft	3-7000 ft	>7000 ft
	0												
	0-M												
	M												
	E												
	H												
	U												

The rationale of this subsample was to provide a small working population for which we could acquire adequate data. In order to provide a balanced range of lakes across the diverse conditions of the state, we chose lakes throughout the possibilities of major drainage,

estimated trophic status<sup>1</sup>, size, and elevation (Table 2-1). In each drainage, there usually was not a lake for every combination, but a framework for selection was nevertheless provided. Further considerations for final selection in the subsample were present and probable future use. The final subsample included 19 National Eutrophication Survey (NES) lakes and 15 lakes in established Research Natural Areas (RNA's).

Each of the Department of Water Resources 11 major river drainages was subdivided into four lake size categories (<50 acres, 50-500 acres, 500-5000 acres, and >5000 acres) and three elevation categories (<3000 feet, 3000-7000 feet, and >7000 feet). Within each size and elevation category, six trophic categories were listed: oligotrophic, oligomesotrophic, mesotrophic, eutrophic, hypereutrophic and unknown.

Where more than one lake occurred within a cell, we gave positive consideration to easy access, high use and location near population centers in order to eliminate duplications. About 100 lakes were thus selected from the initial 123 to form the subsample. A sampling schedule was then devised to reach all lakes within periods of peak productivity.

The lakes actually sampled (86 lakes) during the summer of 1981 are listed in Table 2-2. Lakes in the study population which for various reasons were not sampled are listed in Table 2-3.

### Literature Review

Each of the project teams conducted a literature review in their respective specialty areas for specific lakes in Idaho and methodology.

---

<sup>1</sup>Estimation of trophic status was made at this point for coverage of lake types only and had no bearing on future outcome of our trophic status rankings produced by data analysis.

Table 2-2 Lakes sampled during summer, 1981

Alturas Lake	Hayden Lake	Portneuf Res.
American Falls Res.	He Devil Lake	Priest Lake (Lower)
Anderson Ranch Res.	Hell's Canyon Res.	Priest Lake (Upper)
Arrowrock Res.	Henry's Lake	Redfish Lake
Ashton Res.	Hoodoo Lake	Ririe Res.
Basin Lake	Island Park Res.	Rose Lake
Bayhorse Lake	Lake Lowell	Round Lake
Bear Lake	Lake Walcott	Salmon Falls Creek Res.
Benewah Lake	Lamont Res.	Seven Devils Lake
Bernard Lake (Lower)	Little Camas Res.	Shelf Lake
Bernard Lake (Upper)	Little Wood Res.	Silver Lake
Black Canyon Res.	*Lower Stevens Lake	Soda Point Res.
Blackfoot Res.	Lucky Peak Res.	Spirit Lake
Brownlee Res.	MacArthur Res.	Stanley Lake
C.J. Strike Res.	Mackay Res.	Swan Falls Res.
Cascade Res.	Magic Res.	Swan Lake
Cave Lake	Mann's Creek Res.	Tolo Lake
Cedar Creek Res.	Milner Res.	Trinity Lake
Chatcolet Lake	Moose Creek Res.	Twin Lakes (Upper)
Cocolalla Lake	Mormon Res.	Twin Lakes (Lower)
Coeur d'Alene Lake	Murtaugh Res.	Twin Lakes Res.
Crane Creek Res.	*Myrtle Lake	(Franklin Co.)
Deadwood Res.	*Mountain Home Res.	Warm Lake
Deep Creek Res.	*Oakley Res.	Williams Lake
Echo Lake	Palisades Res.	Wilson Res.
Fernan Lake	Payette Lake	Winchester Lake
Gem Lake	*Payette Lake (Upper)	
Golden Lake	Pend Oreille Lake	
Goose Lake	Perkins Lake	
Hauser Lake	*Pettit Lake	

\*Lakes visited and samples collected, but data not used in subsequent analyses.

Table 2-3 Lakes scheduled for sampling but not visited for stated reasons

Atwater Lake (access limited)  
 Brundage Res. (dry)  
 Copenhagen Lake (lake conditions met elsewhere)  
 Edna Lake (access limited)  
 Elkhorn Res. (access limited)  
 Fraser Res. (dry)  
 Granite Creek Res. (access limited)  
 Harrison Lake (access limited)  
 Herman Lake (access limited)  
 Oneida Res. (lake conditions met elsewhere)  
 Palisades Lake Upper (access limited)  
 Palisades Lake Lower (access limited)  
 Pleasant View Res. (access limited)  
 Samaria Res. (access limited)  
 Turtle Lake (access limited)



These sources with annotated comments are compiled in this report as Appendix C.

Certain hydrological and limnological data were required in order to make an assessment of trophic status for each lake. A list of those lakes for which some supporting data were available in the literature or in agency files is reproduced in Table 2-4 (57 lakes and reservoirs). The field data collected during this study for these and additional lakes, brought the list of lakes for which sufficient data were available to a final total of 85 lakes. Based on the literature and research team discussions, a list of criteria for lake classification was prepared. The resulting list served as a guide for us as we considered the data base for each lake (Table 2-5).

#### Data Search

In order to be reasonably certain as to the available lake data and the appropriateness of the subsample of lakes, a systematic canvass of government agency sources was carried out. Those agencies contacted included:

USDA - Forest Service - Forest Supervisor's and Ranger District  
Offices

USDA - Soil Conservation Service - Idaho State Office

USDA - Science and Education Administration - Ag. Research

USDI - Bureau of Reclamation - Boise Office

USDI - Environmental Protection Agency - Boise Office and Seattle  
Office

USDI - Geological Survey - Boise Office

Idaho Department of Fish and Game - State and Regional Offices

Idaho Water Resources Research Institute - University of Idaho

Table 2-4. Idaho Lakes Study  
Lakes for which some prior data are available for  
trophic status assessment

Name	County* No.	Name	County* No.
1. American Falls Res.	39	29. Lucky Peak Res.	1
2. Anderson Ranch Res.	20	30. Mann's Lake	35
3. Arrowrock Res.	8	31. Magic Res.	7
4. Bear Lake	4	32. Lake Milner	16
5. Black Canyon Res.	23	33. Mormon Res. Twin Lakes	13
6. Blackfoot Res.	15	34. Oneida Res. (listed as Oneida Narrows Res.)	21
7. Brownlee Res.	44	35. Oxbow Res.	2
8. Cape Horn Lake	19	36. Palisades Res.	9
9. Cascade Res.	43	37. Payette Lake	43
10. Chatcolet Lake	5	38. Upper Payette Lake	43
11. C. J. Strike Res.	37	39. Lake Pend Oreille	10
12. Cocollala Lake	10	40. Lower Priest Lake	10
13. Coeur d'Alene Lake	28	41. Upper Priest Lake	10
14. Deadwood Res.	43	42. Ririe Res.	9
15. Dworshak Res.	18	43. Rose Lake	28
16. Elkhorn Res.	36	44. Salmon Falls Res.	41
17. Fernan Lake	28	45. Samaria Lake	36
18. Glidden Lakes (Lower Glidden Lake)	40	46. Sheep Creek Res.	22
19. Grays Lake	9	47. Silver Lake	22
20. Hauser Lake	28	48. Soldiers Meadow Res.	35
21. Hayden Lake	28	49. Spirit Lake	28
22. Hells Canyon Res.	2	50. Spring Valley Res.	29
23. Henry's Lake	22	51. Swan Falls Res.	1
24. Icehouse Creek Res.	22	52. Lower Twin Lakes	28
25. Island Park Res.	22	53. Upper Twin Lakes	28
26. Little Wood Res.	7	54. Lake Waha	35
27. Lake Lowell	14	55. Lake Walcott	7
28. Lower Granite Res.	35	56. Williams Lake	30
		57. Winchester Lake	31

\*For key to county numbers see Appendix Table A-1.

Idaho Department of Water Resources - Boise

Idaho Department of Health and Welfare - Water Quality Bureau

Idaho Department of Parks and Recreation - Boise and individual  
Park Headquarters.

The response produced valuable information in the form of reports, data, and general suggestions. Contact did continue in the event that research efforts might introduce new data of interest to the project.

Interviews were also conducted with fisheries biologists for 9 of the 10 national forests in Idaho. These interviews served to solicit agency participation through review or suggestions concerning project work as well as to recommend additional lakes deemed economically important to a region.

A list of Forest Service publications dealing with lake habitat surveys was compiled and is included in our list of references. These surveys contain physical, chemical, and biological data on hundreds of small mountain lakes in the State.

One additional valuable result from the agency contacts was the survey conducted by the Idaho Department of Parks and Recreation for Dr. Edwin Krumpe (Recreation). The department conducted a survey of all owners of registered boats with questions contributed by Dr. Krumpe. The survey involved a distribution of more than 17,000 survey forms and the useful data obtained on lake use were entered as part of the recreational/sociological data base for the Project.

#### Economic Variables

The variables employed in measuring uses and activities on lakes, lake shoreline and lake watersheds include landuse information developed from landsat photography, county data and lake specific observations

TABLE 2-5

## Watershed and Lake Descriptors Sought for Use in Lake Classification

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>I. Geomorphological Aspects           <ul style="list-style-type: none"> <li>A. Watershed characteristics               <ul style="list-style-type: none"> <li>1. Dimensional aspects                   <ul style="list-style-type: none"> <li>a. Area</li> <li>b. Elevation</li> <li>c. Relief</li> </ul> </li> <li>2. Edaphic considerations                   <ul style="list-style-type: none"> <li>a. Parent geology</li> <li>b. Soils characteristics</li> </ul> </li> <li>3. Ecological consideration                   <ul style="list-style-type: none"> <li>a. Climate</li> <li>b. Nutrient sources</li> </ul> </li> </ul> </li> <li>B. Lake Characteristics               <ul style="list-style-type: none"> <li>1. Bathymetric                   <ul style="list-style-type: none"> <li>a. Area, volume, depth</li> <li>b. Morphometric map</li> <li>c. Shape factors</li> </ul> </li> <li>2. Watershed area/lake volume</li> <li>3. Hydrologic characteristics                   <ul style="list-style-type: none"> <li>a. Inflows/outflows</li> <li>b. Volume changes</li> <li>c. Outflow/volume relationships</li> </ul> </li> </ul> </li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>II. Limnological           <ul style="list-style-type: none"> <li>A. Physical               <ul style="list-style-type: none"> <li>1. Summer max. temp.</li> <li>2. Littoral/profundal ratio</li> <li>3. Epilimnial/euphotic ratio</li> <li>4. Summer stability</li> <li>5. Summer epilimnial turbidity</li> <li>6. Secchi</li> </ul> </li> <li>B. Hydrological               <ul style="list-style-type: none"> <li>1. Retention time</li> <li>2. Surface inflows</li> <li>3. Surface outflows</li> <li>4. Lifetime status of lake</li> </ul> </li> <li>C. Chemical               <ul style="list-style-type: none"> <li>1. Morphoedaphic index</li> <li>2. Hypolimnial oxygen</li> <li>3. Hypolimnial CO<sub>2</sub></li> <li>4. TDS+Conductivity</li> <li>5. Odor</li> <li>6. Hypolimnial H<sub>2</sub>S</li> <li>7. Epilimnial color</li> <li>8. Total N loading</li> <li>9. Total P loading</li> <li>10. N:P ratio in epilimnion</li> <li>11. Organic content of seston</li> </ul> </li> <li>D. Biological               <ul style="list-style-type: none"> <li>1. Summer epilimnial algae</li> <li>2. Coliform bacteria</li> </ul> </li> </ul> </li> </ul> |
|--|---|

The landuse data are for both watershed and lake shoreline. County information on agriculture included inventories of animal populations, irrigation statistics, information on the application of agricultural chemicals and fertilizer as well as the number of farms, acres in farms, acres in cropland and acres in grazing. Data at a county level were also collected for such things as (1) the distribution of employment across such industry classifications as construction and mining, (2) statistics on housing and sewage treatment, (3) population, (4) income and (5) businesses. These county data for some lakes, such as mountain lakes, were irrelevant to the developing lake conditions. However, in other cases, such data, scaled on a per-square-mile basis or with regard to a land use category were representative of watershed conditions. Table 2.5 provides a comprehensive listing of economic variables.

#### Sociological and Recreational Variables

Recreational variables relevant to lake trophic status were compiled in a survey or data-collection. Review of the literature confirms the choice of variables selected. The literature suggests that "percent of land in farms" and "percent of land owned" (federal, state, county, private) are relevant variables that should be added to the data work sheet. Sociological and recreational data were collected on a county by county basis.

In addition, a determination of distances of population centers to lakes of over 50 acres was made. These data, representing potential or actual recreation pressures, are compiled according to four population categories: 1-9,999; 10,000-24,999; 25,000-49,999; and 50,000+.

TABLE 2-5 (continued)  
Watershed and Lake Descriptors Sought for Use in Lake Classification (continued)

III. Socio-Economic and Recreational Criteria

A. Activities and development on lake watershed

1. Watershed land uses
  - a. Agriculture and range
  - b. Industrial development
  - c. Urban development
  - d. Rural residential development
  - e. Interaction from outside of watershed
2. Population characteristics
  - a. Population density
  - b. Distance from urban area to lake
  - c. Population distribution & distribution trends
  - d. Population changes over time
  - e. Population composition & mobility

B. Activities and development on lake shoreline

1. Shoreline land uses
  - a. Agriculture and range
  - b. Urban development
  - c. Residential & recreational development
  - d. Shoreline accessibility
2. Shoreline recreational use & development
  - a. Types of activities
  - b. Types & extent of development
  - c. Amount of use
  - d. Supporting developments

and distances included interstate data and include growth rate information.

Field data on recreational uses of Idaho lakes were collected in cooperation with the Idaho Division of State Parks, The Idaho State Comprehensive Outdoor Recreation Plan Office, individual state park managers and National Forest Service personnel. Recreational-use data resulting from this data-collection effort is shown in Table B-6.

#### Watershed and Limnological Variables

Field sampling for lakes with inadequate data coverage was scheduled in the period from July to September in order to obtain representative estimates of lake conditions during the critical low-flow, high-temperature and maximal production period.

Field schedules were established for the June through October period. The goal was to work each lake as close as possible to its annual) biotic activity peak (algae blooms, etc.). Since all lakes could not feasibly be studied in August, a schedule was established to permit sampling of higher elevation lakes (those with a very short activity peak) in August, then sampling those lakes with progressively broader activity peaks sometime from July to early September. Finally, the lowest elevation lakes were sampled in the early summer and fall periods. Minimum data requirements, considered essential in analyzing trophic conditions, were total P, total N, chlorophyll-a, secchi depth, maximum depth, temperature profiles, O<sub>2</sub> profiles, and bathymetric (lake morphometry) data.

Lake morphometry was determined using a fathometer or a sounding line. Two fathometer units were available, one with a continuous recorder and one with no recorder. In the latter case and with the sounding line, depths were recorded at regular intervals on lake transects and plotted on a map of the lake.

At the approximate deepest point in a lake the following measurements or collections were taken:

Secchi disc depth

Temperature-dissolved oxygen profile

Hypolimnetic H<sub>2</sub>S

Water samples from epilimnion for later analysis

While on the lake, observations were made regarding substrate conditions, inlet and outlet streams, shoreline conditions, unusual biota, and macrophyte growth. Water samples and bottom samples were packed in ice and shipped to the U. of I. limnology laboratory for analyses.

Water sample and biological analyses were conducted at the University of Idaho's limnology laboratory. These included:

Chemical

Specific conductivity

Turbidity

Odor

Color

Alkalinity

pH

Suspended solids

Biological

Organic content of seston

Chlorophyll a

Algal biomass



### Chemical

Fecal and total coliforms

Total Kjeldahl nitrogen

Total phosphorus

Nitrate Nitrogen

Ammonia Nitrogen

### Low-Level Aerial Photography Data

Low-level photo imagery was acquired during late August 1981 in a series of overflights for three purposes:

1) To aid in the location and interpretation of depth transects and shoreline configurations for construction of morphometric maps; and,

2) To determine and check land use conditions, location and extent of roads and structures, shoreline activities, lake inlet and outlet locations, turbidity currents, and total drainage area of study lakes; and,

The lakes were photographed in the last two weeks of August 1981 from a Cessna 180 equipped with a belly-mount 9" x 9" frame motorized K-17B camera and Kodak 2448 positive color film. Flight lines were generally 2-3,000 feet above the lakes.

A list of the 60 lakes photographed follows. For smaller lakes the entire lake basin could be contained in one photograph. When lakes were too large for one photo, flight lines were selected which resulted in a series of photos representative of the lake shoreline.

Table 2-6. Idaho Lake Overflights, August 1981

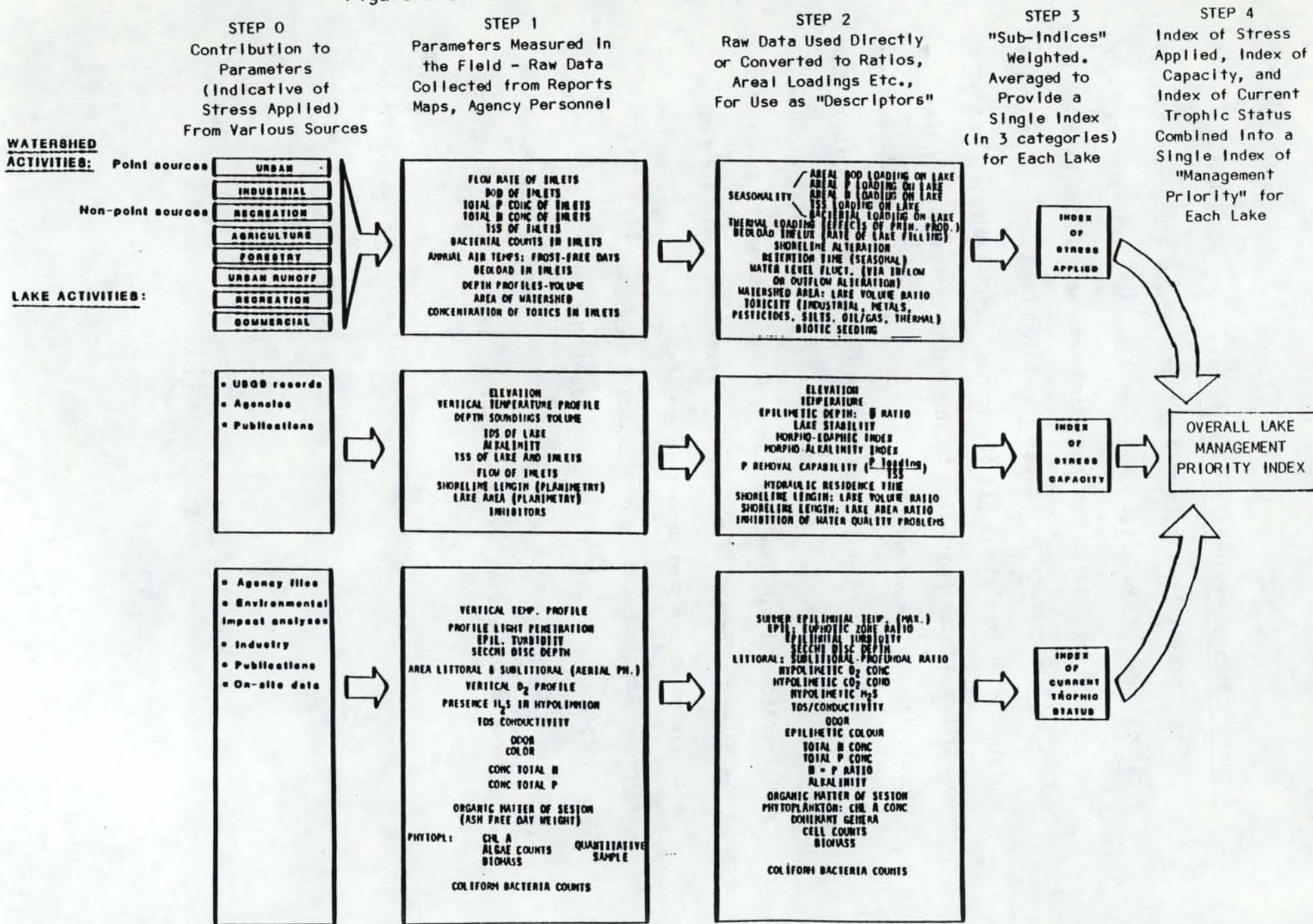
Alturas Lake	Herman Lake	Rose Lake
Ashton Res.	Hoodoo Lake	Round Lake
Atwater Lake	Island Park Res.	Seven Devils Group:
Benewah Lake	Little Wood Res.	Baldy Lake
Blackfoot Res.	Lost Valley Res.	Basin Lake
Blue Lake	Lower Granite Res.	Bernard Lake (Upper)
Brownlee Res.	Mackay Res.	Bernard Lake (Lower)
Brundage Res.	McArthur Res.	Echo Lake
Cascade Res.	Miner Lake	He Devils Lake
Cave Lake	Moose Creek Res.	Seven Devil Lake
Chatcolet Lake	Myrtle Lake	Shelf Lake
Cocolalla Lake	Payette Lake (Lower)	Unnamed Lake
Coeur d'Alene Lake	Payette Lake (Upper)	Silver Lake (Fremont Co.)
Deadwood Res.	Perkins Lake	Spirit Lake
Fernan Lake	Pettit Lake	Spring Valley Res.
Goose Lake	Portneuf Res.	Stanley Lake
Harrison Lake	Priest Lake (Lower)	Swan Lake (Kootenai Co.)
Hauser Lake	Priest Lake (Upper)	Tolo Lake
Hayden Lake	Redfish Lake	Turtle Lake
Henry's Lake	Ririe Res.	Warm Lake
		Winchester Lake

## Trophic Status and Prioritization of Lakes

The conceptual logic in moving from data and field work to classification index and priority ranking of lakes is illustrated by Figure 2-1. Figure 2-1 details the transition from accumulated data and parameters to "descriptors", ecologically-based functional values which explain the interrelationships of various identifiable segments of a lake system. Descriptors lead to integrated estimates of a lake's trophic status. These measures, sub-indices, or scores can be grouped, weighted and averaged to provide a single index for each lake in each of three categories; 1) stress applied, 2) stress capacity, and 3) current trophic status. These indices are then combined to formulate a "lake priority index". A manager or a researcher could use such an index system at any step depending upon the specific information desired or the intended use of the chosen index.

In practice in this research we found that deficiencies of data required a simplification of this logical framework. Details of the procedures actually used are provided in Chapter IV of this report.

Figure 2-1. MODEL OF LAKE STUDY METHODOLOGY



## CHAPTER III

### TROPHIC STATUS CLASSIFICATION OF LAKES

The assessment of the trophic state of a lake is an important step in watershed management planning for lake water quality protection. Many lake process models have been proposed and tested for this purpose, but the approach used in this study for assessment of lake trophic status is based upon the important parameters controlling or indicating the trophic state of a lake which are furthermore readily and relatively inexpensively attainable. These target parameters used as indicators of the lake trophic state are based on similar concepts of nutrient balance to those of Vollenweider's (1968) analysis that began in the late 1960's. The target parameters are indexed and combined to form a trophic status index (TSI) which is then used to rank and classify the lakes into trophic status categories, i.e. oligotrophic, eutrophic, etc.

This chapter explains the development of the TSI and its use in ranking and classification of trophic status for each lake. The results of application of the TSI methodology to the 85-lake subsample are also shown.

#### TSI Development

Variables for inclusion in the TSI were selected from the complete list of all water quality/lake condition variables (Table 3-1). We first utilized a feedback process of correlation analyses in which a multiple linear correlation routine was used to relate water quality/lake condition variables to controlling watershed factors. The variables which showed strongest correlations across the 85 lake subsample are presented along with simple correlation coefficients in a

Table 3-1. Water Quality/Lake Condition Variables Identified for Each of the 85 Study Lakes

No.	Full Name of Variable	Variable	Unit of Measure	Variables in TSI	Descriptive Statistics			
					Max	Min	Mean	Std.Dev.
1.	Maximum Depth	MAXDEP	Meters		351.	1.2	27.33	45.75
2.	Epilimnion Depth	EPIDEP	Meters		64.9	1.2	8.48	8.75
3.	Secchi Depth	SECCHI	Meters	yes	14.	.1	4.00	3.35
4.	Eutrophic Zone D.	EVPHZ	Meters		37.8	.2	8.75	7.83
5.	Shape of O <sub>2</sub> Curve	SHAPE	Code <sup>(1)</sup>		7.	1.	4.08	2.69
6.	Max Epil. Temp	EPITMX	C°		28.	10.1	19.69	3.30
7.	Mean Epil. Temp	EPITMN	C°		26.3	9.7	18.60	3.05
8.	Minimum Hypol. O <sub>2</sub>	HYPOMN	mg/l		12.	0	4.32	3.05
9.	Mean Hypol. O <sub>2</sub>	HYPOME	mg/l		11.1	0	5.63	2.75
10.	Hypol H <sub>2</sub> S	HZSHY	Code <sup>(1)</sup>		2.	1.	1.96	.19
11.	Chlorophyll "a"	CHLA	micrograms/liter	yes	44.64	0	7.89	9.14
12.	pH	PH	-	yes	10.03	6.1	7.75	1.04
13.	Conductivity	CONDUCT	µmho	yes	650.	12.	138.69	133.47
14.	Turbidity	TURBID	N.T.U.	yes	90.	.3	6.69	13.12
15.	Alkalinity	ALKALIN	mg/liter	yes	280.32	.96	70.74	62.25
16.	Total Suspended Solids	TSS	mg/liter	yes	92.	0	7.12	13.48
17.	Organic Content	ORGCONT	mg/liter	yes	24.8	0	2.80	3.62
18.	Total Phosphorus	PTOT	mg/liter	yes	2.66	.004	.14	.40
19.	Ammonia Nitrogen	NH3N	mg/liter	yes	.29	.015	.05	.07
20.	Nitrate Nitrogen	NO3N	mg/liter		.92	.01	.09	.16
21.	Total Kjeldahl Nitrogen	TKN	mg/liter		3.30	0	.26	.45
22.	Total Coliforms	TOTCE	count/100ml		100.	0	15.85	26.14
23.	Fecal Coliforms	FECCF	count/100ml		93.	0	3.93	12.76
24.	Color	COLOR	Code <sup>(1)</sup>		60.	5.	10.06	8.50
25.	Odor	ODOR	Code <sup>(1)</sup>		3.3	0	.32	.69
26.	Total Nitrogen	NTOT	mg/liter	yes	3.36	0	.35	.47
27.	Ni P ratio	NP	ratio		52.5	0	9.11	9.56
28.	Lake Elevation	ELEV	feet		8584.	1600.	4294.30	1928.82
29.	Lake Area	AREAAC	acres		94600.	1.9	5642.88	14823.30
30.	Lake Area	AREASQM	sq. meters					
31.	Shoreline Length	SHUREM	meters <sup>(2)</sup>		322,100.	300.	38042.2	63898.5
32.	Shore Development	SHOREIDX	dimensionless <sup>(3)</sup>		26.42	1.23	3.030	3.91
33.	Lake Volume	VOLUME	cubic meters <sup>(4)</sup>		426E+09	46,766.7	258,585,600.	6.634808E +08

Notes: 1 - refer to Appendix B

2 - 79 lakes with data available

3 - ratio of Shoem/(Areasqm\*4\*T)<sup>1/2</sup>, only 79 lakes

4 - 69 lakes with data available

correlation matrix (Appendix Figures E 1-10). The correlation analysis was carried out for the entire 85 lake subsample, then run separately for various subsets identified through theoretical and empirical considerations of limnological and hydraulic relationships, i.e. watershed geochemistry, varying climate by lake elevation, lake depth and volume categories. Table 3-2 presents lake groupings considered and Appendix Figure E 1-10 present the correlations developed for the entire 85 lake subsample and for each subset.

Water quality/lake condition variables selected by correlation analyses across the 85 lake subsample were further studied by computer drawn scatter diagrams visually depicting the relationships between variables that had been shown to be statistically significant. Illustrative plots from the more than 300 scatter diagram plots analyzed are provided in Figures 3-1 through 3-4.

Eleven water quality/lake condition variables (Table 3-3) were selected from a list of 31 variables originally identified (Table 3-1). The selection was accomplished through consideration of theoretical relationships, measurement and subsequent analysis of the conditions in Idaho lakes described above. The trophic status index (TSI) comparing water quality conditions across the 85 lake subsample is constructed as a linear, equally-weighted sum of these eleven water quality indices. Each of the eleven indices represents a water quality condition for which data were collected in the project. Each index was constructed by scaling the original data according to a maximum value (see Table 3-2) such that the resulting range of values would be from 0 to 10.

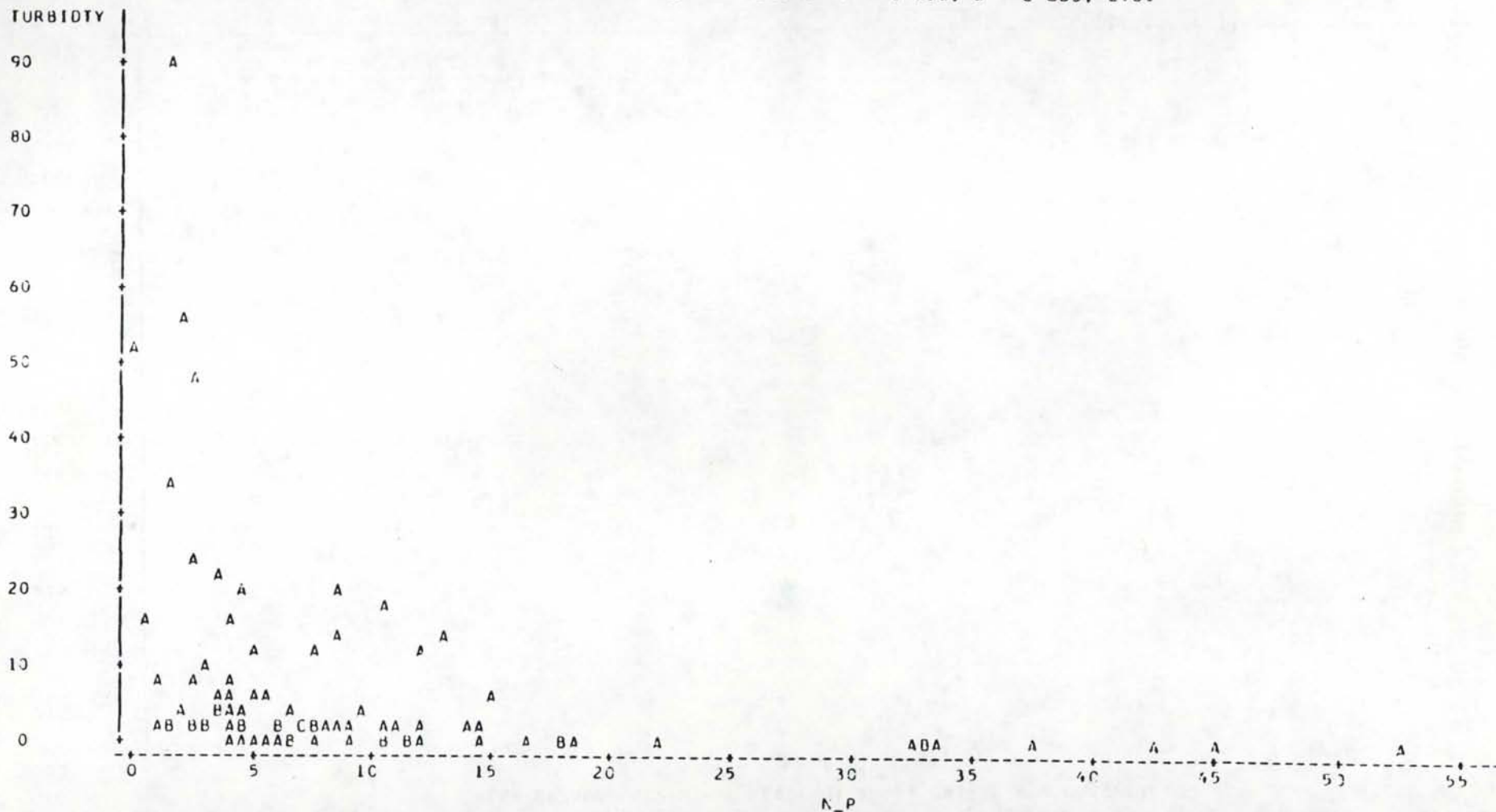
Table 3-2. Lake Data Grouping for Correlation  
Analysis of Selected Variables

<u>Group No.</u>	<u>Group Title</u>	<u>Grouping Criteria*</u>
1	North Low Elevation	Lakes in Basins 1 through 7 with elevation below 2400 ft.
2	North High Elevation	Lakes in Basins 1 through 7 with elevation above 2400 ft.
3	South Low Elevation	Lakes in Basins 8 through 11 with elevation below 4950 ft.
4	South High Elevation	Lakes in Basins 8 through 11 with elevation above 4950 ft.
5	Large Lakes	Lakes with surface areas greater than 1000 acres.
6	Small Lakes	Lakes with surface areas smaller than 1000 acres.
7	Deep Lakes	Lakes with maximum depth greater than 18 meters.
8	Shallow Lakes	Lakes with maximum depths less than 18 meters.
9	Large Watersheds	Lakes with watersheds larger than 100 square miles.
10	Small Watersheds	Lakes with watersheds smaller than 100 square miles.

\*Note: It was assumed that the division between north and south would serve as a reasonable proxy for generated geological differences in watersheds and that the division between high and low elevations would substitute for many of the climatic and also some geological differences.



PLCT OF TURBIDTY\*N\_P    LEGEND: A = 1 OBS, B = 2 OBS, ETC.

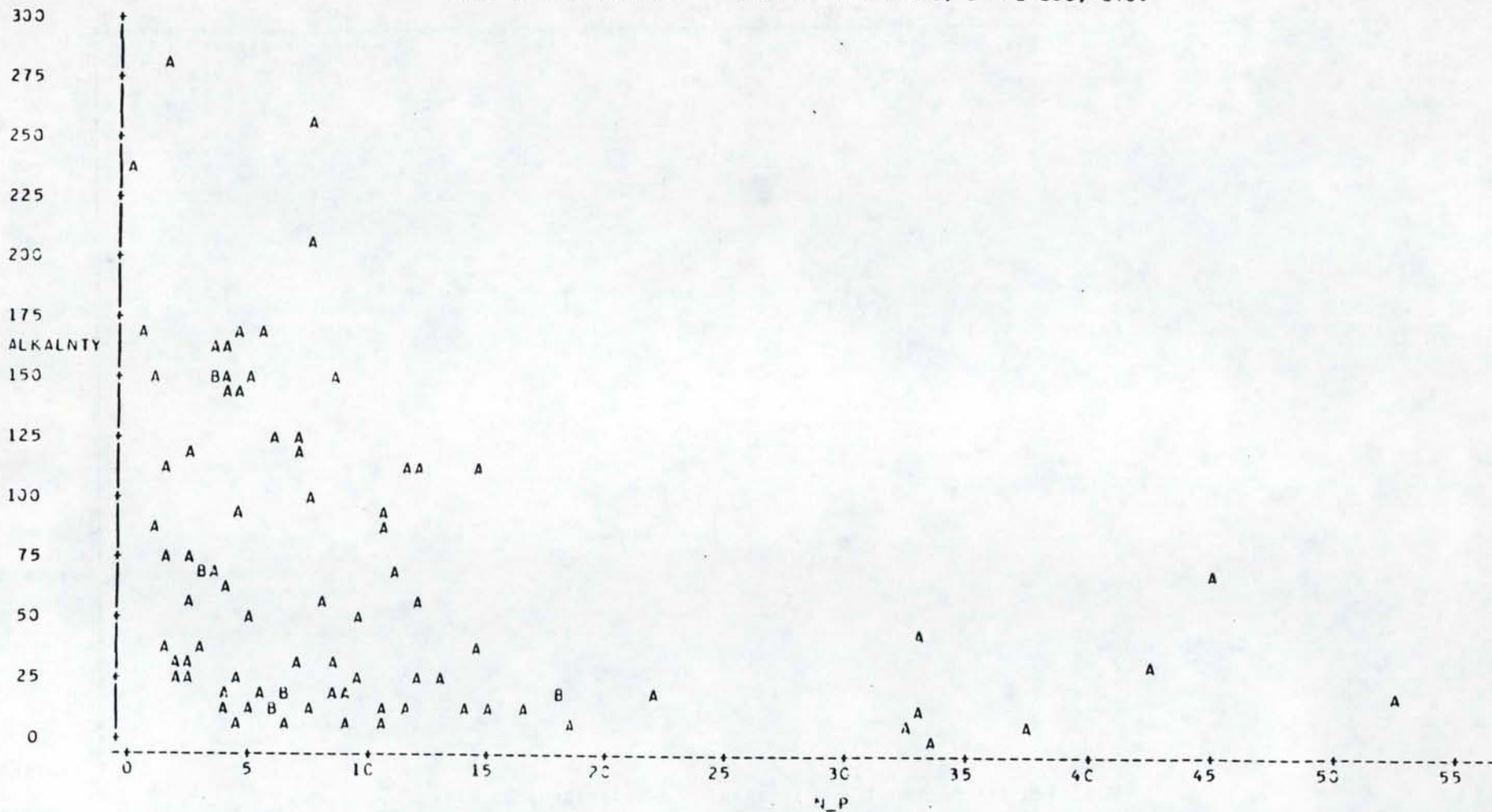


NOTE: 3 OBS HAD MISSING VALUES

Figure 3-1. Scatter Diagram Relationship Between Lake N:P Ratio and Lake Turbidity

PLCT GF ALKALNTY\*N\_P LEGEND: A = 1 CBS, B = 2 OBS, ETC.

28

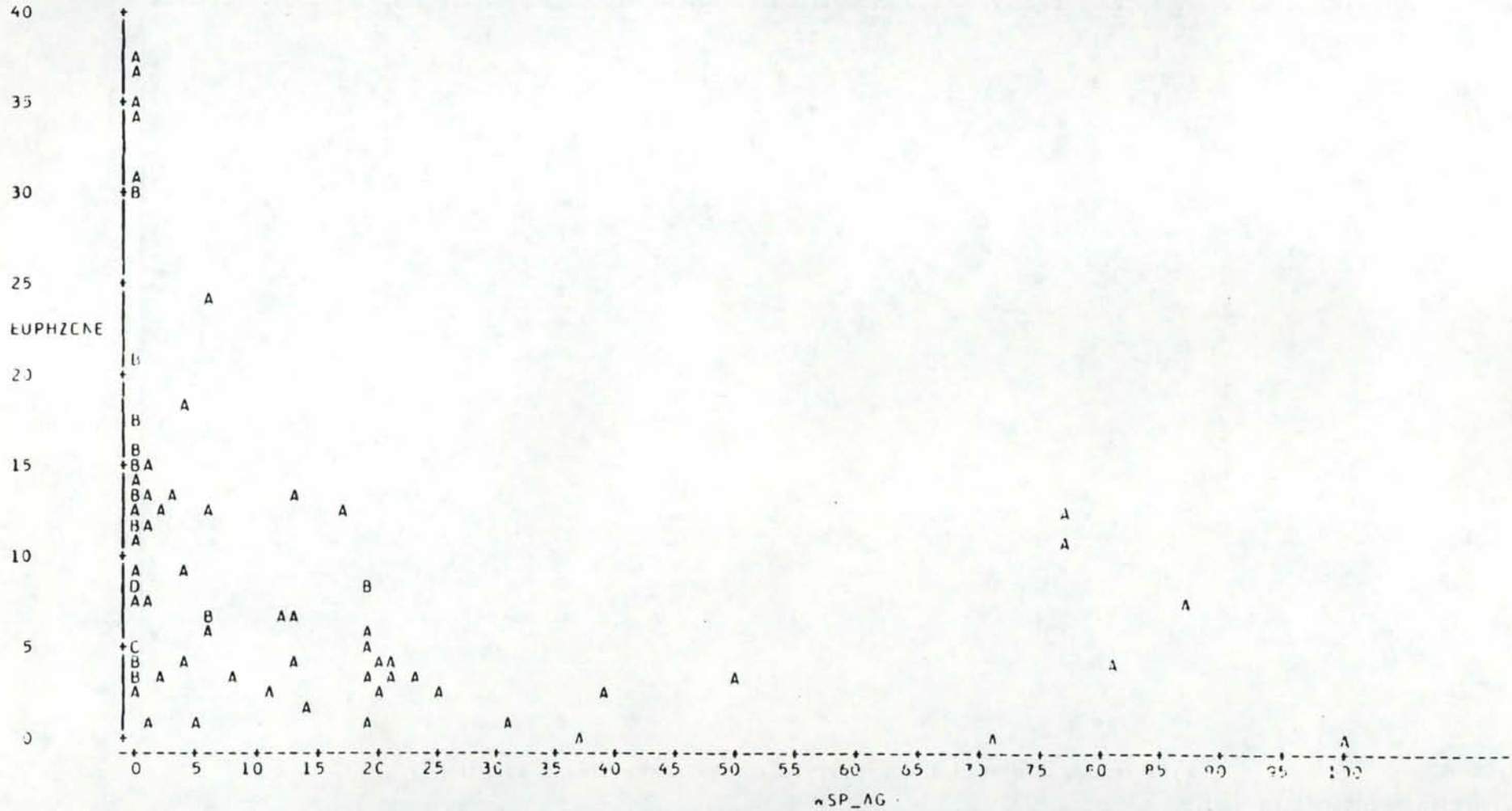


NOTE: 2 CBS HAD MISSING VALUES

Figure 3-2. Scatter Diagram Relationship Between Lake N:P Ratio and Lake Alkalinity

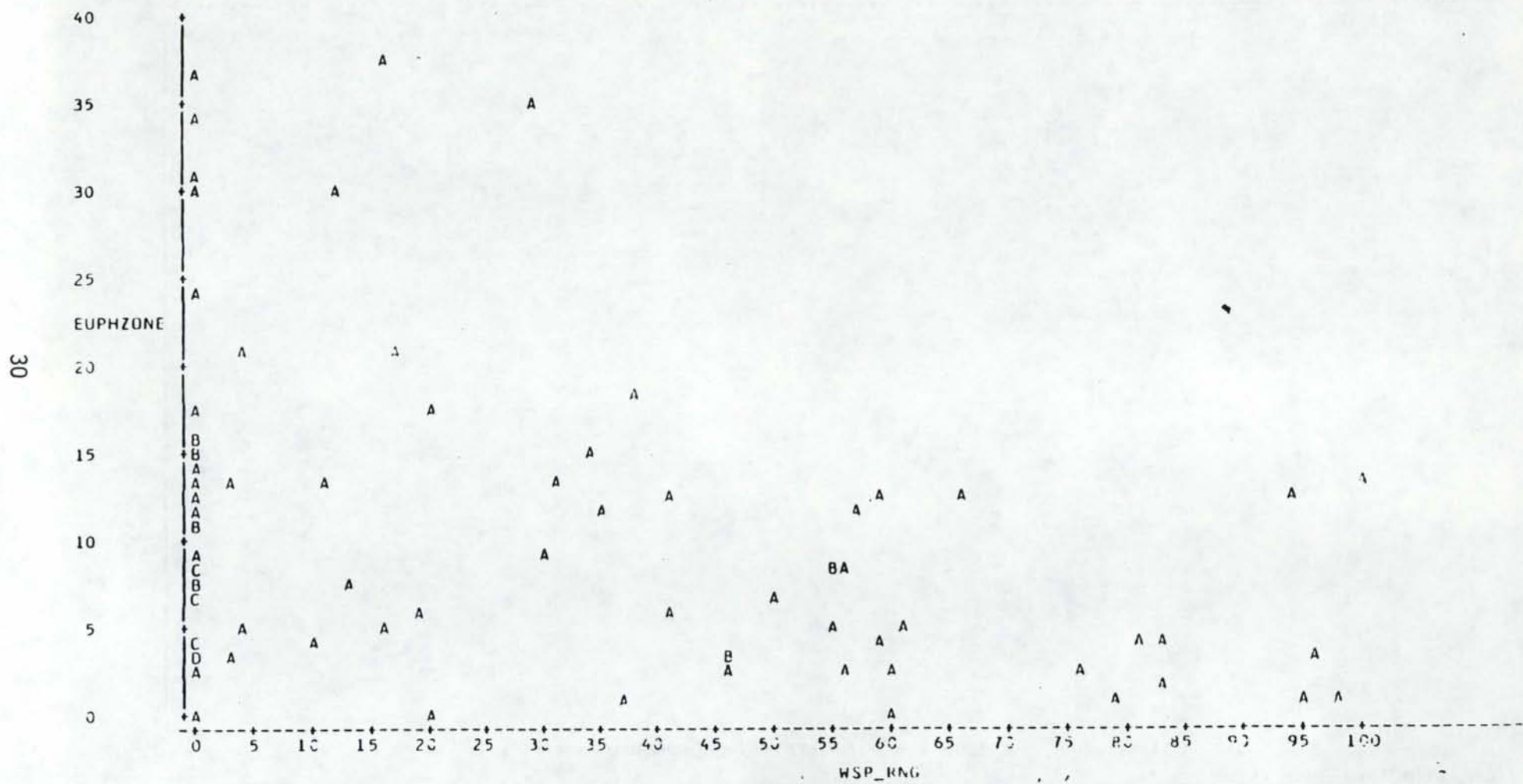
PLOT LF EUPHZONE\*WSP\_AG LEGEND: A = 1 OBS, B = 2 OBS, ETC.

29



NOTE: 6 OBS HAD MISSING VALUES

Figure 3-3. Scatter Diagram Relationship Between Percentage of Watershed Land Use in Agriculture and Depth of Lake Euphotic Zones



NOTE: 6 GBS HAD MISSING VALUES

Figure 3-4. Scatter Diagram Relationship Between Percentage of Land Use in Range and Depth of Lake Euphotic Zones

Table 3-3. Eleven Parameters \*Used in Composition of  
Trophic Status Index

<u>Symbol</u>	<u>Parameter</u>	<u>Scaling Factor (Maximum Value Observed)</u>
1. CHLA	Chlorophyll-a	44.64 g/l
2. ORGCONT	Organic Content	24.8 mg/l
3. TSS	Total Suspended Solids	92 mg/l
4. COLOR	Color	60 Color Units
5. SECCHI	Secchi Disc Reading	14 meters
6. TURBID	Turbidity	90 NTU's
7. PTOTAL	Total Phosphorus Concentration	2.658 mg/l
8. NTOTAL	Total Nitrogen Concentration	3.36 mg/l
9. CONDUCT	Conductivity	650 mho
10. ALKALIN	Alkalinity	280 mg/l
11. pH	pH	10.03 mg/l

\*Epilimnial means

### Factor Profiles

After statistical analysis and selection of water quality variables used in the TSI, several sets of factor profiles were developed to assess the trophic status of the lakes and the variables impacting the TSI. Examples of some of the factor profiles used in this process are shown in Figure D-3, where the lake factor profiles for the 85 lakes and reservoirs are arranged by increasing order of the TSI. Since the lake factor profiles were used in the derivation of the TSI the arrangement shown in the Figure D-3 was made after the TSI was developed in order to provide an orderly graphical comparison of contributions of each variable to the TSI. The profiles drawn in this figure show the relative contribution to the TSI of each of the eleven variables finally selected and used in the TSI. Comparisons among lakes are graphically apparent between lakes. Appendix Figure D-4 presents sample factor profiles, as opposed to lake factor profiles. In this figure a single watershed descriptor or lake use variable is profiled over the 85 lakes arranged according to the final TSI. These factor profiles were examined for various arrangements and groupings of variables and lakes to help explain the contribution to the variables used in the TSI to a lake's trophic rating.

### Trophic Status Classification

The scatter diagram plots were especially valuable in setting threshold values or breakpoint values along a variable's range which would separate productivity ranges. These breakpoints for individual variables were later used as guidelines (when considering all 11 variables together) in separation of the ranked TSI values into trophic ranges. For example, lakes of alkalinity over 100 mg/l generally had

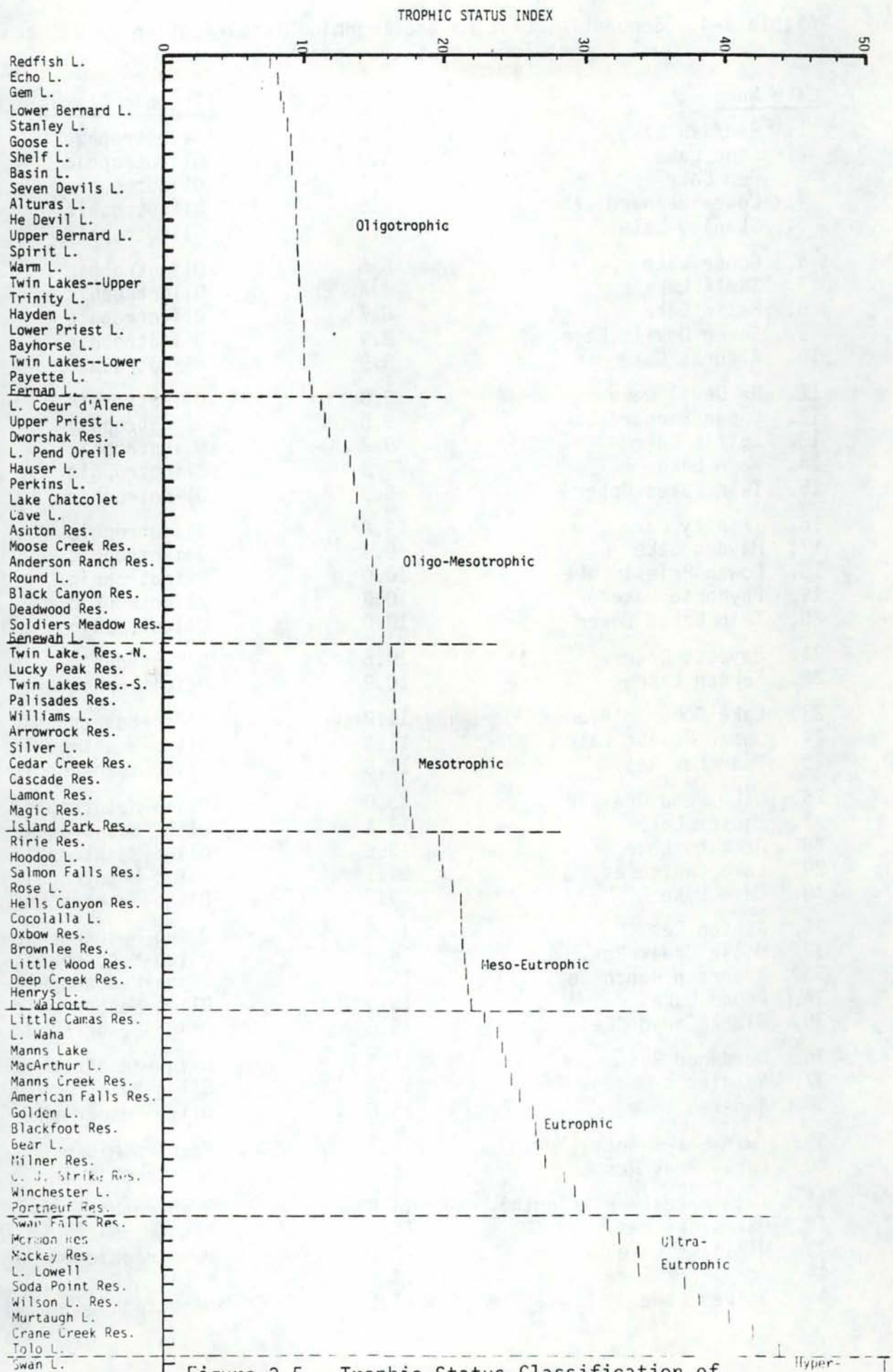


Figure 3-5. Trophic Status Classification of Idaho Lakes by Trophic Status Index

Hyper-Eutrophic

Table 3-4. Sequential Listing and Trophic Classification of 85 Lakes by Trophic Status Index (TSI)

<u>Lake Name</u>	<u>TSI</u>	<u>Trophic Status</u>
1. Redfish Lake	7.6	Oligotrophic
2. Echo Lake	8.0	Oligotrophic
3. Gem Lake	8.2	Oligotrophic
4. Lower Bernard Lake	8.5	Oligotrophic
5. Stanley Lake	8.5	Oligotrophic
6. Goose Lake	8.6	Oligotrophic
7. Shelf Lake	8.7	Oligotrophic
8. Basin Lake	8.7	Oligotrophic
9. Seven Devils Lake	8.9	Oligotrophic
10. Alturas Lake	8.9	Oligotrophic
11. He Devil Lake	9.0	Oligotrophic
12. Upper Bernard Lake	9.0	Oligotrophic
13. Spirit Lake	9.2	Oligotrophic
14. Warm Lake	9.3	Oligotrophic
15. Twin Lakes Upper	9.3	Oligotrophic
16. Trinity Lake	9.6	Oligotrophic
17. Hayden Lake	9.9	Oligotrophic
18. Lower Priest Lake	10.0	Oligotrophic
19. Bayhorse Lake	10.0	Oligotrophic
20. Twin Lakes Lower	10.0	Oligotrophic
21. Payette Lake	10.6	Oligotrophic
22. Fernan Lake	10.8	Oligotrophic
23. Lake Coeur d'Alene	11.2	Oligo-Mesotrophic
24. Upper Priest Lake	11.4	Oligo-Mesotrophic
25. Dworshak Res.	11.6	Oligo-Mesotrophic
26. Lake Pend Oreille	13.0	Oligo-Mesotrophic
27. Hauser Lake	13.4	Oligo-Mesotrophic
28. Perkins Lake	13.6	Oligo-Mesotrophic
29. Lake Chatcolet	14.1	Oligo-Mesotrophic
30. Cave Lake	14.3	Oligo-Mesotrophic
31. Ashton Res.	14.6	Oligo-Mesotrophic
32. Moose Creek Res.	14.9	Oligo-Mesotrophic
33. Anderson Ranch Res.	15.0	Oligo-Mesotrophic
34. Round Lake	15.3	Oligo-Mesotrophic
35. Black Canyon Res.	15.5	Oligo-Mesotrophic
36. Deadwood Res.	15.6	Oligo-Mesotrophic
37. Soldier's Meadow Res.	15.8	Oligo-Mesotrophic
38. Benewah Lake	15.8	Oligo-Mesotrophic
39. Twin Lakes Res. (North)	16.5	Mesotrophic
40. Lucky Peak Res.	16.8	Mesotrophic
41. Twin Lakes Res. (South)	16.8	Mesotrophic
42. Palisades Res.	16.8	Mesotrophic
43. Williams Lake	17.1	Mesotrophic
44. Arrowrock Res.	17.1	Mesotrophic
45. Silver Lake	17.1	Mesotrophic



Table 3-4. Classification of 85 Lakes by Trophic Status Index (TSI)  
(continued)

<u>Lake Name</u>	<u>TSI</u>	<u>Trophic Status</u>
46. Cedar Creek Res.	17.2	Mesotrophic
47. Cascade Res.	17.6	Mesotrophic
48. Lamont Res.	17.8	Mesotrophic
49. Magic Res.	17.9	Mesotrophic
50. Island Park Res.	18.1	Mesotrophic
51. Ririe Res.	19.6	Meso-Eutrophic
52. Hoodoo Lake	19.6	Meso-Eutrophic
53. Salmon Falls Res.	19.9	Meso-Eutrophic
54. Rose Lake	20.8	Meso-Eutrophic
55. Hell's Canyon Res.	21.3	Meso-Eutrophic
56. Cocolalla Res.	21.4	Meso-Eutrophic
57. Oxbow Res.	21.5	Meso-Eutrophic
58. Brownlee Res.	21.5	Meso-Eutrophic
59. Little Wood Res.	21.6	Meso-Eutrophic
60. Deep Creek Res.	21.6	Meso-Eutrophic
61. Henry's Lake	21.7	Meso-Eutrophic
62. Lake Walcott	21.9	Meso-Eutrophic
63. Little Camas Res.	22.8	Eutrophic
64. Lake Waha	23.6	Eutrophic
65. Mann's Lake	23.8	Eutrophic
66. MacArthur Lake	24.2	Eutrophic
67. Mann's Creek Res.	24.6	Eutrophic
68. American Falls Res.	25.7	Eutrophic
69. Golden Lake	26.5	Eutrophic
70. Blackfoot Res.	26.6	Eutrophic
71. Bear Lake	27.0	Eutrophic
72. Milner Res.	27.3	Eutrophic
73. C.J. Strike Res.	28.4	Eutrophic
74. Winchester Lake	28.9	Eutrophic
75. Portneuf Res.	29.7	Eutrophic
76. Swan Falls Res.	31.5	Ultra-Eutrophic
77. Mormon Res.	32.3	Ultra-Eutrophic
78. Mackay Res.	33.9	Ultra-Eutrophic
79. Lake Lowell	34.0	Ultra-Eutrophic
80. Soda Point Res.	36.9	Ultra-Eutrophic
81. Wilson Lake Res.	38.2	Ultra-Eutrophic
82. Murtaugh Lake Res.	40.6	Ultra-Eutrophic
83. Crane Creek Res.	41.7	Ultra-Eutrophic
84. Tolo Lake	43.3	Ultra-Eutrophic
85. Swan Lake	59.6	Hyper-Eutrophic

an N:P ratio  $\leq 8$ . Since a low N:P ratio in individual lakes is often associated with more eutrophic conditions, we considered that 100 mg/l alkalinity breakpoint (along with similar such breakpoints for the other 10 variables) in separating the TSI ranking into trophic categories (Figure 3-5 and Table 3-4).

Trophic status classification of the 85 lakes involved a ranking of lakes by the TSI index and selection of trophic categories as they appear in Table 3-4 and are illustrated in Figure 3-5. Specifically, lakes having a TSI less than 11.0 are classified as Oligotrophic; those having a TSI greater than 11.0 but less than 16.0 are classified as Oligo-Mesotrophic; those having a TSI greater than 16 but less than 19.0 are classified as Mesotrophic; those having a TSI greater than 19.0 but less than 22.0 are classified as Meso-Eutrophic; those having a TSI greater than 22.0 but less than 30.00 are Eutrophic; those having a TSI greater than 30.0 but less than 50.0 fall into Ultra-Eutrophic; and those having a TSI greater than 50.0 are considered to be Hyper-Eutrophic.

#### Nutrient Loadings

Nutrient loading rates play an important role in determination of the trophic condition of most lakes. Mathematical models describing eutrophication generally relate trophic level to nutrient loading, particularly to phosphorus loading. This relationship has not been overlooked in this study but the paucity of data on phosphorus concentrations in tributary streams forced consideration of other means of accounting for nutrient contributions to the trophic levels. On only a few tributary streams for a few major reservoirs were sufficient data available to estimate phosphorus loadings. Landuse models reported in

the literature as relating landuse data to nutrient loadings were evaluated by comparing predicted values with the few measured values that were available. This, too, proved unsatisfactory. Details of this work are reported in Appendix F.

The alternative approach taken for consideration of nutrient loads was to collect data on indicator variables of nutrient contributions such as nutrient concentrations in the lake (epilimnion), phytoplankton productivity, transparency, and hypolimnetic oxygen depletion. Some of these indicators were used in the TSI; all were considered and evaluated.

#### Trophic Capacity and Other Factors

Watershed characteristics, demographic conditions, recreational uses, landuse configurations and other economic influences did not play a direct role in the trophic status classification. Rather they played a significant role in assigning priorities to the lakes for consideration of protective or corrective measures. Also, the lake's capacity for absorbing various nutrient loadings was left for consideration in the later determination of a priority listing.

Originally, it had been thought that a trophic capacity index should be separately constructed and applied. However, after serious consideration of the issues and problems involved in developing and using such an index, it was concluded that a case by case consideration of contributing conditions would accomplish the same end and without the danger of special circumstances requiring the periodic defense of exceptions and development of rules to apply. The priority classification of lakes in this study are discussed, along with the procedures, in the following chapter.

## CHAPTER IV.

### LAKE PRIORITY CLASSIFICATIONS

Ranking lakes by current trophic status is not in itself a sufficient basis for management recommendations. The problem is that natural factors leading to eutrophication and a general review of benefits and costs in management are likely to indicate that many lakes have problems that must or should be ignored in a management scheme. In this chapter, the criteria for recommending lakes for protective or corrective measures are presented. The priority classification system developed is then applied to the 85 lakes in the study population. The procedure is easily applied to other lakes and reservoirs in Idaho after collection of similar data.

#### Criteria

Four criteria were employed in this study to assign priorities to fresh water lakes in Idaho. These include: (1) trophic status; (2) rate at which trophic status is likely to worsen; (3) manageability of trophic conditions either by manipulation of the lake environment or regulation of conditions in the lake's watershed; and (4) importance of the lake with respect to recreation or other uses for which a worsening trophic condition might be undesirable.

These criteria were not weighted equally in application to the 85 lakes studied. The prioritization procedure was to first rank all lakes by trophic status (see Table 3-4). Then an objective system was developed to consider the manageability of trophic conditions, the expectation of worsening trophic conditions (i.e. nutrient loading intensity), and a measure of economic value or use potential.

Results from application of these criteria to the 85 lakes and reservoirs of this study are displayed in Table 4-1. A detailed description of this methodology follows. Priority classifications in this table both identify lakes with problems worthy of management consideration and indicate a level for recommended action.

#### Priority Groupings

Priority 5 lakes are those with a low use potential. Management consideration, therefore, is minimal despite their trophic status. No monitoring, protective, or corrective action is justified for P-5 lakes.

Priority 4 lakes are those subject to moderate recreation use or other uses which may require maintenance or improvement of trophic status, but which also have significant mitigating factors acting to prevent further deterioration of present trophic status. Also included in this classification are those lakes where the economic benefits associated with improvements in trophic status would appear to be minimal and/or where uncontrollable natural conditions are major contributors to the lake's trophic status. High interest in a P-4 lake, however, may call for a monitoring program focusing on the water quality parameters in the TSI. Priority assignment may then be reconsidered.

Priority 3 lakes have a moderate use potential even if Loading: Capacity Ratio (L/C) is moderately high or high. Those lakes are either very sensitive to increased loading ( $TSI < 11$ ) or and already showing signs of eutrophication ( $TSI > 16$ ). The lakes and reservoirs in this category are either oligotrophic or eutrophic lakes where the principal demands on the lake or reservoir do not justify either concern for maintenance of or improvements in water quality. Recreation

Table 4-1. Priority Classifications of 85-Lake Subsample

<u>Lake Name</u>	<u>TSI</u>	<u>Priority</u>
Hayden Lake	9.9	1
Payette Lake	10.6	1
Coeur d'Alene Lake	11.2	1
Chatcolet Lake	14.1	1
Cascade Res.	17.6	1
Bear Lake	24.4	1
Lower Priest Lake	10.0	2
Dworshak Res.	11.6	2
Pend Oreille Lake	13.0	2
Hauser Lake	13.4	2
Cave Lake	14.3	2
Anderson Ranch Res.	15.0	2
Deadwood Res.	15.6	2
Lucky Peak Res.	16.8	2
Palisades Res.	17.1	2
Arrowrock Res.	17.1	2
Magic Res.	17.9	2
Island Park Res.	18.1	2
Brownlee Res.	21.5	2
Henry's Lake	21.7	2
Lake Walcott	21.9	2
American Falls Res.	25.7	2
Blackfoot Res.	26.6	2
C.J. Strike Res.	28.4	2
Lake Lowell	34.0	2
Crane Creek Res.	41.7	2
Stanley Lake	8.5	3
Goose Lake	8.6	3
Spirit Lake	9.2	3
Warm Lake	9.3	3
Twin Lakes (Upper)	9.3	3
Twin Lakes (Lower)	10.0	3
Fernan Lake	10.8	3
Benewah Lake	16.5	3
Twin Lakes (North)	16.8	3

Table 4-1. Priority Classifications of 85-Lake Subsample  
(continued)

<u>Lake Name</u>	<u>TSI</u>	<u>Priority</u>
Twin Lakes (South)	16.8	3
Lamont Res.	17.8	3
Rose Lake	20.8	3
Hell's Canyon Res.	21.3	3
Cocolalla Lake	21.4	3
Oxbow Res.	21.5	3
Little Camas Res.	22.8	3
Mann's Creek Res.	24.6	3
Milner Res.	27.3	3
Portneuf Res.	29.7	3
Swan Falls Res.	31.5	3
Mackay Res.	33.9	3
Soda Point Res.	36.9	3
Redfish Lake	7.6	4
Alturas Lake	8.9	4
Trinity Lake	9.6	4
Moose Creek Res.	14.9	4
Round Lake	15.3	4
Black Canyon Res.	15.5	4
Soldier's Meadow Res.	15.8	4
Williams Lake	17.1	4
Silver Lake	17.1	4
Cedar Creek Res.	17.2	4
Ririe Res.	19.6	4
Hoodoo Lake	19.6	4
Little Wood Res.	21.6	4
Deep Creek Res.	21.6	4
Lake Waha	23.6	4
Mann's Lake	23.8	4
McArthur Lake	24.2	4
Winchester Lake	28.9	4
Mormon Res.	32.3	4
Wilson Lake Res.	38.2	4
Murtaugh Res.	40.6	4
Tolo Lake	43.3	4

Table 4-1. Priority Classifications of 85-Lake Subsample  
(continued)

<u>Lake Name</u>	<u>TSI</u>	<u>Priority</u>
Echo Lake	8.0	5
Gem Lake	8.2	5
Lower Bernard Lake	8.5	5
Shelf Lake	8.7	5
Basin Lake	8.7	5
Seven Devils Lake	8.9	5
He Devil Lake	9.0	5
Upper Bernard Lake	9.0	5
Bayhorse Lake	10.0	5
Upper Priest Lake	11.4	5
Perkins Lake	13.6	5
Ashton Res.	14.6	5
Salmon Falls Res.	19.9	5
Golden Lake	26.5	5
Swan Lake	59.6	5

#### DEFINITIONS OF PRIORITY CLASSIFICATIONS

Priority 1 (P-1) - Lakes that should receive immediate consideration for protective or corrective measures are in priority 1. These lakes have a high Lake Use Potential Index (LUPI) of 4 or 5, a high Loading Intensity Index (L/C) of over 15, and a high management potential. Corrective measures are likely to be required, effective and economically feasible. Suggested actions include detailed water quality monitoring to determine and quantify nutrient sources and loadings followed by specific remedial action.

Priority 2 (P-2) - Lakes that have a LUPI of 4 or 5 but either  $L/C < 15$  (or if  $L/C > 15$  then management potential is intermediate or low) are classified in priority 2. Also included in this priority classification are sensitive oligomesotrophic lakes having a LUPI of 3 with  $L/C > 15$  and a trophic status index (TSI) between 11 and 16. Protective or corrective measures can be delayed as compared with lakes in the priority 1 category, since these lakes are of lesser importance in terms of use potential or management opportunities. Lakes in priority category 2 may be reviewed for reclassification after detailed water quality assessment and as trophic conditions and public interest warrant.



Table 4-1. Priority Classifications of 85-Lake Subsample  
(continued)

Priority 3 (P-3) - Lakes that have LUPI of 3 and  $L/C > 15$  but TSI less than 11 or greater than 16 are classified in priority 3. In these lakes a continuing trophic status change is probable because of significant nutrient loading and high lake sensitivity, therefore monitoring is strongly suggested as a means of determining or indicating a need for additional corrective measures. Local interest may accelerate consideration of corrective management options.

Priority 4 (P-4) - Lakes having a LUPI of 3 with  $L/C \leq 15$  or a LUPI of 2 are classified in priority 4. These are lakes of lower importance in terms of potential use or lakes whose trophic status is not likely to change with the current loading situation. Occasional monitoring of water quality parameters in the trophic status index may be justified if there are indications of increased nutrient loadings or signs of worsening trophic status. Special loading conditions may justify some monitoring effort.

Priority 5 (P-5) - Lakes having a low use potential (LUPI = 1 or 0) are included in priority 5. No particular corrective or protective action is indicated or justified for lakes in this category despite their Trophic Status.

activity at these reservoirs and lakes often consists principally of fishing. Water-contact activities are often little developed. Furthermore, changes in the trophic status of these lakes and reservoirs might be expected to require considerable investment because of water body size. Local support would have to be significant in order to justify management actions. Water quality monitoring should be undertaken, however, and managers should review the priority classification as conditions might warrant.

Priority 2 lakes and reservoirs have a high use-potential but a low L/C indicates low loading relative to capacity. Or if L/C is high, then restricted management options render management actions less effective. P-2 is a classification given to lakes and reservoirs where some special conditions, such as a state park, attach a particular importance to the lake or reservoir that would otherwise be classified as P-3. Also included in this category are lakes and reservoirs where considerable shoreline development has taken place but where mitigating factors such as significant watershed forest cover or exceptional lake depth and capacity tend to reduce the need for immediate attention to logical problems. Several high-quality (low TSI) lakes of Northern Idaho are assigned to this category rather than the P-1 category because of mitigating factors which would tend to reduce the likelihood of worsening trophic status.

Lakes that should receive immediate management consideration for protective or corrective measures are in Priority 1. These lakes have a high use potential, a high L/C, and a high management potential. Corrective measures are likely to be both effective and economically feasible. Assignment to this category is made for those lakes and

reservoirs where economic importance is attached to the lake's high quality or where extensive recreational or urban development on a high-quality lake is not offset by mitigating factors as identified in the procedures outlined in Table 4-2. Several of the lakes or reservoirs included in the P-1 category are those having a current trophic status which shows signs of a present deteriorating trend. Examples would be Hayden, Payette, and Fernan Lakes. These are lakes which fall in the lower productivity ranges, but which show obvious signs of enhanced nutrient loading and also obvious signs of high productivity at sporadic times through the year.

Detailed water quality studies to determine nutrient sources and loadings are recommended for the lakes in the P-1 priority category. These studies also should outline protective or corrective alternatives. Such studies are a necessary first step in formulating a management plan for these lakes. Lakes in the P-1 priority classification are discussed later in more detail in this chapter where various factors are drawn together to make the case for immediate attention to these lakes.

## Development and Rationale of Lake Prioritization Scheme

Table 4-2 is the vehicle by which lake priorities were developed and assigned for each lake. In Table 4-2 the lakes are first listed in order of increasing trophic status index (TSI) mainly to provide an orderly listing. Only in the P-3 category TSI used for priority ranking of lakes and there to exclude lakes in the oligomesotrophic range.

Characteristics of lakes and their watersheds listed in Table 4-2 under the heading of "natural mitigating factors" are those which are important in controlling the trophic status of the lake but which are generally outside the control of man or are not easily manageable but which are nevertheless, pivotal in setting a lake's natural trophic state. The factors in this category include the lake mean depth and significant (more than 50 percent of watershed area) land use in watershed forest.

Mean depth is used in priority classification because of its important relationship with plankton productivity as proposed by Rawson (1955) and supported since then by numerous other writers. The lake mean depth integrates several other considerations such as sediment nutrient contribution to the water column, likelihood of stratification, and retention time. Mean depth data are used in this classification scheme in the form of a load capacity index. For example, very shallow lakes have little capacity to absorb even natural levels of nutrient loadings without significant deterioration. Management options, furthermore, are limited as the depth of most lakes can not be changed.

Forested land use data listed in Table 4-2 show the percent of the watershed in forest cover. This factor is generally inversely correlated with our TSI and has been interpreted to indicate lower than

Table 4-2. Summary Information Used In Determining Lake Priorities

LAKES RANKED BY TROPIC STATUS INDEX TSI	TSI	NATURAL MITIGATING FACTORS		NUTRIENT LOAD FACTOR			LOADING INTENSITY INDEX (L/C)			LAKE IMPORTANCE			MANAGEMENT POTENTIAL	PRIORITY CLASSIFICATION
		Mean Depth (m)	Percent of Watershed (Forested)	Percent of Watershed In Agri. & Range	Shoreline Development Index	Special Cond.	Loading Index (L)	Lake Capacity Index (C)	L/C	Ltd Access	Lake Use Potential Index	Special Cond.		
Redfish Lake	7.6	>50	58	16	2		18	5	4		3	NRA	I-D	4
Echo Lake	8.0	5.6	100	0	--		--	2	--	A	1	NRA	L	5
Gem Lake	8.2	9.6	100	0	--		--	2	--	A	1	NRA	L	5
Lower Bernard Lake	8.5	3.3	100	0	--		--	1	--	A	1	NRA	L	5
Stanley Lake	8.5	14.5	77	12	20		32	2	16		2	NRA	I	3
Goose Lake	8.6	3.8	74	20	2		22	1	22		3		L-R	3
Shelf Lake	8.7	6.1	100	0	--		--	2	--	A	1	NRA	L	5
Basin Lake	8.7	---	100	0	--		--	2	--	A	1	NRA	L	5
Seven Devils Lake	8.9	3.5	100	0	--		--	1	--	A	0	NRA	I-D	5
Alluras Lake	8.9	28.1	56	29	1		30	4	8		3	NRA	I-D	4
He Devil Lake	9.0	2.4	100	0	--		--	1	--	A	1	NRA	L	5
Upper Bernard Lake	9.0	1.3	100	0	--	SW-60	--	1	--	A	1	NRA	L	5
Spirit Lake	9.2	10.4	89	0	57		57	2	29		3		H-D	3
Warm Lake	9.3	8.3	95	0	50		50	2	25		3		H-D	3
Twin Lakes (Upper)	9.3	2.4	90	6	46		52	1	52		3		H-D	3
Trinity Lake	9.6	4.1	--	0	10		10	1	10		2		I-R	4
Hayden Lake	9.9	---	84	0	85		85	3	28		4		H-D	1
Lower Priest Lake	10.0	28.8	100	0	56		56	4	14		5	SP	I-D	2
Bayhorse Lake	10.0	4.1	100	0	10	G	10	1	10	A	1		I-G	5
Twin Lakes (Lower)	10.0	4.6	90	6	62		68	1	68		3		H-D	3
Payette Lake	10.6	35.0	76	17	72		89	4	22		4	SP	H-D	1
Fernan Lake	10.8	3.0	95	0	35		35	1	35		3		H-D	3
L. Coeur d'Alene	11.2	---	91	6	80		86	4	22		5		H-D	1
Upper Priest Lake	11.4	14.8	98	0	10		10	3	3	A	3		L	5
Dworshak Reservoir	11.6	64.2	94	4	10		14	5	3	A	5		I-F	2
L. Pend Oreille	13.0	164.0	80	6	56		62	5	12		5	SP	H-D	2
Hauser Lake	13.4	6.1	93	0	37		37	2	19		3		H-D	2
Perkins Lake	13.6	3.0	94	0	--		--	1	--	A	2		L	5
Lake Chatcolet	14.1	3.4	74	21	35	SW-36	56	1	56		4	SP	H-D	1
Cave Lake	14.3	2.7	85	1	35	SW-34	36	1	36		3		H-D	2
Ashton Res.	14.6	5.7	69	28	2		30	2	15	A	2		I-Ag,R	5
Moose Creek Res.	14.9	1.5	100	0	5		5	1	5		2		L	4
Anderson Ranch Res.	15.0	32.3	60	36	4		40	4	10		4		L	2
Round L.	15.3	5.6	87	12	10		22	2	11	A	2	SP	I-Ag	4
Black Canyon Res.	15.5	12.4	71	25	4		29	2	15		3		I-R	4
Deadwood Res.	15.6	15.4	93	3	7		10	3	3		4		I-D	2
Soldiers Meadow Res.	15.8	6.1	100	0	2	G	2	2	1		2		H-G	4
Benawah L.	16.5	0.8	82	16	20		36	1	36		3	SP	I-Ag,F	3
Twin Lakes (North)	16.8	4.9	--	77	2	OS	79	1	79		3		I-OS	3
Lucky Peak Res.	16.8	32.8	65	32	2		34	4	9		4	SP	I-R	2
Twin Lakes (South)	16.8	4.0	--	77	2	OS	79	1	79		3		I-OS	3
Palladas Res.	17.1	26.8	61	34	6		40	4	10		4		I-F	2
Williams L.	17.1	23.9	--	56	32	G	88	3	29		2		H-G	4
Arrowrock Res.	17.1	28.3	--	34	1		35	4	9		4		L	2
Silver L.	17.1	1.2	94	4	--	M	4	1	4	A	2	SP	L-M	4
Cedar Creek Res.	17.2	6.1	100	--	--		0	2	0		3		L	4
Cascade Res.	17.6	7.5	--	24	14	SW-57	38	2	19		5		H-D	1
Lamont Res.	17.8	6.4	--	81	6	OS	87	2	44		3		I-OS	3
Magic Res.	17.9	15.4	--	76	17	G	93	3	31		4		I-G	2
Island Park Res.	18.1	5.0	51	43	12	M	55	2	28	A	4	SP	L-M	2
Ririe Res.	19.6	19.5	--	75	--		75	3	25	A	3		I-R	4
Hoodoo L.	19.6	--	81	19	10		29	1	29		2		I-D	4

Table 4-2. Summary Information Used in Determining Lake Priorities (Continued)

LAKES RANKED BY TROPIC STATUS INDEX TSI	TSI	NATURAL MITIGATING FACTORS		NUTRIENT LOAD FACTOR			LOADING INTENSITY INDEX (L/C)			LAKE IMPORTANCE			MANAGEMENT POTENTIAL	PRIORITY CLASSIFICATION
		Mean Depth (m)	Percent of Watershed (Forested)	Percent of Watershed In Agril. & Range	Shoreline Development Index	Special Cond.	Loading Index (L)	Lake Capacity Index (C)	L/C	Ltd Access	Lake Use Potential Index	Special Cond.		
Salmon Falls Res.	19.9	20.7	—	98	1		99	3	33	A	1		I-R	5
Rose L.	20.8	2.7	57	—	70	SW-50	70	1	70		3		H-D	3
Hells Canyon Res.	21.3	20.8	—	73	2		75	3	25		3		L-MS	3
Cocolalla L.	21.4	7.9	87	11	60		71	2	36		3		H-D	3
Oxbow Res.	21.5	13.0	—	73	2		75	2	38		3		L-MS	3
Brownlee Res.	21.5	29.0	—	73	16		89	4	22		4		L-MS	2
Little Wood Res.	21.6	15.9	—	84	5		89	3	30	A	3		I-R, Ag	4
Deep Creek Res.	21.6	5.8	—	94	4		98	2	49		2		I-R, Ag	4
Henry's L.	21.7	3.3	—	57	12	M, G	69	1	69		4	SP	L-M	2
L. Walcott	21.9	5.4	—	67	5		72	2	36		4		L-MS	2
Little Camas Res.	22.8	4.7	—	76	3		79	1	79		3		I-R	3
L. Waha	23.6	21.9	90	10	7	OS	17	3	6		2		H-OS	4
Manns L.	23.8	6.5	—	99	2		101	2	51		2		I-R, Ag	4
McArthur L.	24.2	0.9	90	8	20		28	1	28		2		L	4
Manns Creek Res.	24.6	14.6	—	61	2		63	2	32		3		I-R	3
American Falls Res.	25.7	9.3	—	61	8	WF, P	69	2	35		5		L-MS	2
Golden L.	26.5	2.5	—	100	10	M	110	1	110		1	SP	L-M	5
Blackfoot Res.	26.6	6.6	—	63	4	P	67	2	34	A	4		L-P	2
Bear L.	27.0	24.4	—	42	47	SW-67	89	3	30		5		H-D	1
Miller Res.	27.3	5.7	—	71	22	OS								
C.J. Strike Res.	28.4	10.1	—	79	21	P	93	2	47	A	3	SP	L-MS, P	3
Winchester L.	28.9	4.1	—	50	10	MS	100	2	50		4		L-MS	2
Portneuf Res.	29.7	4.5	—	96	1		60	1	60		2	SP	I-A	4
Swan Falls Res.	31.5	2.3	—	96	1		97	1	97		3		L-P	3
Mormon Res.	32.3	2.5	—	80	11		91	1	91		3		L-MS	3
Mackay Res.	33.9	10.1	—	96	2	G	98	1	98	A	3		L	4
L. Lowell	34.0	5.9	—	72	1		73	2	37		3		I-R	3
Soda Point Res.	36.9	3.0	—	95	10	SW-48	105	2	53		4		L-OS	2
Wilson L. Res.	38.2	2.2	—	70	3	OS, WF								
Murtaugh L. Res.	40.6	2.8	—	91	5		75	1	75		3		I-Ag	3
Crane Creek Res.	41.7	5.3	—	97	15		96	1	96	A	3		I-R	4
Tolo L.	43.3	0.6	—	97	2		122	1	122	A	3		I-Ag	4
Swan L.	59.6	1.6	—	98	1		100	2	50		4		I-Ag, R	2
				67	1		68	1	68		2		I-Ag	4
				100	-	WF	100	1	100	A	2		I-Ag	5

Notes:

Mean Depth	Loading Capacity Index
< 5 m	1
5-15 m	2
15-25 m	3
25-50 m	4
> 50 m	5

Nutrient Load Factors Special Conditions

- SW-xx Shoreline percent in wetlands
- G Heavy localized grazing
- OS Off-stream storage function of lake or reservoir
- M Marsh or wetlands inundated when reservoir created
- WF Heavy nutrient loading from waterfowl
- P Inflowing streams cross phosphorus-rich geological strata

Limited access indicated (A) where access index less than 0.20.

Lake Use Potential

$$\frac{\text{Lake Area}}{\text{Area of Pend Oreille}} \times \text{Population within 100 miles}$$

Lake Use Potential

0 - 10 <sup>1</sup>
10 <sup>2</sup> - 10 <sup>3</sup>
10 <sup>3</sup> - 10 <sup>4</sup>
10 <sup>4</sup> - 10 <sup>5</sup>
10 <sup>5</sup> - 10 <sup>6</sup>

Lake Use Potential Index

0
1
2
3
4
5 High Use Potential

Lake Importance Special Conditions

- NRA = National Recreation Area
- SP = State Park on or near shoreline

Management Potential

- H, I, or L = High, Intermediate, or Low
- D = Development
- R = Range
- G = Grazing
- OS = Off-stream storage
- M = Marshland
- F = Forest land
- MS = Mainstream Snake River Reservoirs
- P = Phosphorus-rich watershed

average nutrient loadings. Higher percentages of forested land use (above 50 percent) are assumed to indicate high inertia within the system of nutrient loading conditions or a reduced likelihood for change in trophic status. This information is not used directly in the priority classification procedure, however. It is included here primarily as a guide to aid in judgement in some cases of priority classification.

Nutrient load factors are listed in Table 4-2 in response to consistent correlation trends showing strong relationships between the percent of watershed in agricultural and range land uses with the TSI and with key plant nutrients. The table lists the sum of the percentages of watershed land use in agriculture and range. This sum is used directly as an indicator of load to individual lakes in the computation of the loading index.

The shoreline development index (SDI) is the second major factor used as an indicator of nutrient loading to a lake since it also was strongly correlated with lake nutrients. The SDI was computed as the larger of two measures: the shoreline urban land use or recreational shoreline development index (Appendix Table B-2). The SDI value is used directly with agricultural and range land use as an indicator of nutrient load to individual lakes in the computation of the loading index. We note that this SDI is an index of shoreline population development and different from the SDI of limnology describing relative irregularity of the lake basin shape.

Special loading conditions are those factors which are important to the nutrient loading condition in a particular lake but which are not accounted for directly in computing the loading index. These are natural or cultural factors which bear either on the importance of the

lake or on manageability. Examples of special loading conditions include significant shoreline wetlands (SW), extensive shoreline grazing (G), offstream storage function of a lake or reservoir where inflows from outside of the drainage are high, thereby restricting management options in the watershed (OS), marsh inundation at the time a reservoir was created (M), or inflowing streams crossing phosphate-rich geological strata (P). Most of the special conditions express limitations to management when considering management options.

The manageability of causal factors is extremely important. These factors deal with watershed or land uses which may lend themselves to some corrective actions. Specifically those lakes and reservoirs are flagged whose watershed land uses include significant levels of agricultural (more than 50 percent) or range (more than 50 percent) uses or where urban and recreational development of shoreline has become significant (more than 30 percent). Judgements on cut-off levels for these types of land uses are based on information found in the literature on lake eutrophication as well as on the results of correlation analysis completed in this study.

The lake loading intensity index (L/C) is a numerical ratio of the loading index to the lake capacity index. The loading intensity index is derived by adding the nutrient load factors for each lake, i.e. the agricultural and range factor plus the shoreline development index. No quantitative value is assigned to special loading conditions. The lake capacity index is derived from mean depth categories where a large lake capacity index (large number) means that a large nutrient loading is required to cause a change in lake productivity. Lake capacity index values assigned to mean depth categories are shown in Table 4-3. High



TABLE 4-3. LOAD CAPACITY INDEX AS RELATED TO MEAN DEPTH

<u>MEAN DEPTH</u>	<u>LOAD CAPACITY INDEX</u>
<5 meters	1
5-15 m	2
15-25 m	3
25-50 m	4
>50 m	5

TABLE 4-4. LAKE USE POTENTIAL INDEX RELATED TO LAKE USE POTENTIAL

<u>LAKE USE POTENTIAL</u>	<u>INDEX</u>
0 to 9	0
$10^1$ to 99	1
$10^2$ to 999	2
$10^3$ to 9,999	3
$10^4$ to 99,000	4
$10^5$ to 999,999	5

values (large numbers) of the loading intensity index indicate high loading intensity, which should indicate a propensity for increasing TSI or greater propensity for eutrophication.

Three measures are used to indicate lake importance as shown in Table 4-2. These measures include limited access to the lake, lake use potential, and special use conditions. Limited access is shown using a threshold limit of 20 percent for the road accessibility index (ROADA) listed in Appendix Table B-2. In Table 4-2 access is shown to be limited (A) where the accessibility index is less than 20 percent. This is used as a negative indication of lake importance.

Lake use potential is a composite of relative lake size and proximity of the lake to population centers. Lake use potential is computed as the product of the ratio of lake area to the area of the largest Idaho lake (Pend Oreille) and the population within 100 miles of the lake in question:

$$\text{Lake use potential} = \frac{\text{lake area}}{\text{Area of Lake Pend Oreille}} \times \begin{matrix} \text{(population} \\ \text{within 100} \\ \text{miles)} \end{matrix}$$

The lake use potential index (LUPI) is determined by taking the characteristic of the logarithm of the calculated lake use potential. Values of the LUPI for ranges of lake use potential are shown in Table 4-4. Thus, large lakes which are near large population centers are shown to have a large lake use potential index as an indicator of lake importance.

Special conditions of lake importance are indicated for state parks (SP) and national recreational areas (NRA). In some cases the

importance of a lake as indicated by a state park is offset by the limited access provided to the lake itself.

Lake water quality management potential is ranked as high (H), intermediate (I), or low (L) with explanation of the ranking shown as D for development, R for range, G for grazing, Ag for agriculture, OS for offstream diversion waters, M for marsh land, F for forest harvest, MS for main stem Snake River reservoir, and P for phosphorus-rich watersheds. These assessments of management potential are general and in the case of the 85 lakes reported here are usually based on a single observation of the lake and a general knowledge of watershed characteristics and conditions. It is expected that resource managers using this method of priority classification would have a more substantial basis for assessing the management potential. In the explanations accompanying the management potential, those associated with low management potential generally explain the reason for the low rating. Those explanations accompanying the intermediate or high management indicators generally indicate where management efforts should be directed.

### Priority Classification Rules

Utilization of the various lake and watershed characteristics and indices listed in Table 4-2 for priority classification of individual lakes is summarized by the set of rules listed below. The results of application of these rules are shown for the 85 lake subsample in the final column of Table 4-2. The use of professional judgment in assigning lake priorities should not be overlooked nor undervalued. In some cases assessment of special conditions at a lake or on its watershed may dictate the assignment of a different priority category than is indicated by the mechanical application of the classification rules listed below. The methodology includes provisions for such judgment, but the priority rankings shown in Table 4-2 are based only upon application of these rules.

The priority classification rules are arranged here such that they key first on the lake use potential index (LUPI). The loading intensity index L/C is an important consideration throughout the priority classification process. Special consideration is provided for some lakes in the oligomesotrophic range because of their sensitivity and susceptibility to trophic status change.

The priority classification rules are summarized as follows:

Rule 1

- a) For LUPI = 4 or 5  
L/C > 15  
and High Management Potential
- Priority 1



Sample Priority Classification . . . . . Payette Lake

Step 1

Area = 5340 acres

Population within 100 mi = 350,000

$$\frac{5,340 \text{ acres}}{94,600 \text{ acres}} \times 350,000 = 19,757$$

LUPI = 4 with a State Park adjacent

Step 2

17% of the watershed is in agriculture + range use

+ 72% is the Shoreline Development Index

89 = Loading Index

Step 3

Mean depth = 35 m

Load Capacity Index = 4

Step 4

$$\frac{89 \text{ Loading Index}}{4 \text{ Load Capacity Index}} = \frac{L}{C} = \text{Loading Intensity Index} = 22$$

Step 5

With a LUPI = 4, L/C > 15, and "High Management Potential",\*  
Payette Lake is assigned a Priority 1.

\*With a highly developed shoreline, Payette Lake is considered to have a High Management Potential, i.e. Management efforts to reduce nutrient and shoreline degradation loading are likely to be cost effective and result in marked improvement in lake conditions.

Sample Priority Classification . . . . . Lake Waha

Step 1

Area = 93 acres

Population within 100 mi = 309,000

$$\frac{93 \text{ acres}}{94,600 \text{ acres}} \times 309,000 = 304$$

LUPI = 2

Step 2

10% of the watershed is in range and agriculture use

+ 7% is the Shoreline Development Index

17 = Loading Index

Step 3

Mean depth = 22 m

Load Capacity Index = 3

Step 4

$$\frac{17 \text{ Loading Index}}{3 \text{ Load Capacity Index}} = \frac{L}{C} = \text{Loading Intensity Index} = 6$$

Step 5

With a LUPI = 2, L/C < 15, and Priority Index = 4

Waha has a high management potential since > 60% of the phosphorus loading is known to come into the lake via a single diversion canal from an adjacent watershed. Seasonal diversion of P-rich waters would probably be cost-effective. Waha is an example of a lake which could be raised to a higher priority rating by local management interest, priorities, and funding availability.

## Discussion of the Six P-1 Category Lakes

Hayden Lake is a 4,200 acre lake located 5 miles northeast of Coeur d'Alene, Idaho. It is a deep lake (maximum depth 54 meters with a relatively complex shoreline where limnological shore development = 3.2). It is a clear lake with a 34 m euphotic zone. Secchi depth at the time of sampling was 12.7 m. The epilimnion was correspondingly deep. This deep light penetration probably helped to ensure high concentrations of deep water oxygen (mean hypolimnion oxygen in August 1981 = 7.8 mg/l).

Trophic status indicators ranked Hayden Lake in August 1981 as oligotrophic with a combined TSI of 9.9. Chlorophyll was extremely low at  $1 \mu\text{g l}^{-1}$ . A pH of 7.0 indicated that the low chlorophyll value was not an aberrant observation, but probably a valid expression of open water productivity realized in 1981. A low N:P ratio of 4.5 does suggest unusually high phosphorus inputs, however. While limnetic zone water quality is good to high, some bays have localized eutrophication problems. High retention time and lack of a surface outlet probably contribute to reduced circulation, permitting localized eutrophication. These problems are expected to become more widespread because of the lake popularity for fishing, homesites, and other water-based recreation.

The watershed is 80% forest land but the lakeshore is considered 85% developed. Population in the watershed doubled from 1970 to 1980 to 5,500 people. In addition, the northeast corner of the lake is very shallow and receives heavy silt and nutrient loading from ranching operations adjacent to the lake. Despite these inputs, Hayden Lake remains a popular recreational lake and is a drinking water source for six public and many private water systems.



Payette Lake is a deep, natural lake of approximately 95 meters maximum depth. Mean depth is approximately 35 meters. The mid-summer epilimnion is 5 meters deep indicating a very shallow surface mixing zone and a very large hypolimnion volume. The euphotic zone is approximately 4 times the epilimnion depth. Payette Lake has an orthograde oxygen curve with only very slight (20%) oxygen depletion at the bottom of the hypolimnion. This slight deep hypolimnion oxygen depletion is probably more a result of the deep hypolimnion rather than the organic production in the lake. Payette is considered to be an oligotrophic lake with some tendency to degrade into the oligo- mesotrophic range. Oxygen depletion is definitely not a problem yet in Payette Lake. Average hypolimnion oxygen concentration is approximately 8 mg. per liter.

The nutrient base in Payette is somewhat limited and the nitrogen phosphorus ratio is high at 33, suggesting increased phosphorus loading would result in increased algal production. The mean phosphorus concentration is approximately 13 micrograms per liter throughout the lake. The annual phosphorus loading to Payette Lake is approximately 0.45 g per sq meter per year - a high level which places Payette in the danger zone of the phosphorus loading to water volume relationships (Vollenweider, 1968). Payette certainly has a high propensity to change in the near future with continued similar loading rates. Application of a Vollenweider model relating phosphorus loading rates and hydraulic loading rates to trophic status places Payette Lake in an oligo-mesotrophic category. Chlorophyll levels at the present time are quite low at less than 1  $\mu\text{g}$  per liter. The color parameter of Payette Lake of 10 indicates that Payette Lake is certainly not a typical

oligotrophic mountain lake at 5,000 feet. Rather it is showing early signs of an increasingly productive trophic status.

Most of Payette Lake's watershed is heavily forested. This suggests that loading to the lake is coming not from nonpoint sources in the watershed, but from near lake or shoreline activity. Most of the shoreline is also forest, but urban or housing development occupies 70 percent of the shoreline length. The bulk of the enhanced nutrient loading as indicated by high phosphorus loading is apparently coming from shoreline activities such as septic systems and overland suburban runoff. These observations on Payette are in agreement with the correlation of trophic status index with land use variables in the category of lakes which are in the northern part of the state and at high elevations. Specifically, the trophic status index correlated poorly with upland range activity in the watershed and correlated strongly with private land use activities in the watershed.

The "manageable" nutrient inputs to Payette Lake are coming primarily from the immediate shoreline vicinity. This nutrient loading could be reduced and will be reduced significantly by the sewerage of present septic tank treated waste from shoreline homes. The first phase of sewerage will be completed within two years. At that point suburban runoff will loom as an increasingly important factor. The shoreline nutrient loading to Payette Lake is a particularly fragile situation because of the shallow clay beds underlying permeable sands which surround the lake. The very permeable overlying sand transports overland runoff into the ground and septic waste through the ground on top of the clay lenses into the lake shallows. In summary, Payette Lake is presently an oligotrophic lake at the upper end of that range

showing signs of increasing eutrophication. These signs are developing color, slightly reduced deep water oxygen concentrations by late summer, and high phosphorus loading. The nutrient loadings are considered to be quite controllable and manageable in Payette Lake.

Coeur d'Alene Lake is of moderate depth having a maximum depth of 55 meters and a mean depth of around 30 meters. It has a deep epilimnion with water circulating down to about 20 meters. The euphotic zone is about two-thirds of the epilimnial depth. The deep epilimnion does provide an extensive water column capable of high production rates with organic matter then falling into a limited volume hypolimnion--with a correspondingly limited oxygen reserve. This is reflected in the sharply clinograde oxygen curve with depth. Hypolimnetic oxygen minimum in August was approximately 4 mg per liter. Chlorophyll-"a" was at moderate levels of 5 µg/l. The conductivity and alkalinity concentrations of Coeur d'Alene Lake suggest oligo- mesotrophy. Total phosphorus concentration was at a moderate level of approximately 18 micrograms per liter. The lake has a moderate N:P ratio of 9.

Plankton production varies in Coeur d'Alene through the lake at least partly as a function of algal inhibition by heavy metal loadings produced from the Coeur d'Alene River. The extreme south end of Lake Coeur d'Alene shows no inhibition while some planktonic inhibition is shown at times in the mid and northern end of the lake. Without this inhibition chlorophyll content undoubtedly would be higher in Coeur d'Alene Lake. As a result of the inhibition the nutrient loadings from the heavily used shoreline are somewhat masked. Most of the Coeur d'Alene watershed is in either forest or water cover, with only 3 percent in agricultural use. Shoreline land use is 6 percent urban and 3

percent agricultural but the urban use is fairly heavy and quite concentrated. Most of the developed area is on septic systems.

Management options are limited on Coeur d'Alene because of the large lake volume and the high proportion of nutrients apparently coming into the lake from the Coeur d'Alene River and controlled by farming and community activities in the Coeur d'Alene valley. Lake Coeur d'Alene is on the high priority list not because of the eutrophication situation is easily rectified but because of the high economic and sociologic importance of Lake Coeur d'Alene to the region. It is a very heavily used lake for recreation. Furthermore, the lake should remain on the priority list because it is at the lower end of the oligomesotrophic range. Coeur d'Alene Lake would show higher production were it not for the present heavy metal loading to the lake from the Coeur d'Alene River. This heavy metal loading may well be reduced in the future by remedial action upstream of the lake (treatment of mine and milling wastes), at which time lake production would sharply increase.

Lake Chatcolet is a shallow floodplain lake adjacent to Lake Coeur d'Alene on its south end. A small portion of the basin previously existed as a shallow natural lake in the floodplain of the lower St. Joe River. That natural lake became the central basin of Lake Chatcolet as rising water behind Post Falls dam made the lake contiguous with the St. Joe River and Lake Coeur d'Alene approximately 70 years ago. Maximum depth is now 11 meters with a mean depth of 3.3 meters.

The dissolved solids load of Lake Chatcolet is low, the 51 umho conductivity being similar to the St. Joe River and south end of Lake Coeur d'Alene. Nutrient concentrations are however, quite high as a

result of shoreline loading and the shallow water column. The summer N:P ratio was 1.8 reflecting the high  $40 \mu\text{g l}^{-1}$  total phosphorus concentration. Chlorophyll "a" was also high at nearly  $8 \mu\text{g l}^{-1}$ . Most of the 1,700 acre lake bottom is covered with submerged aquatic macrophytes which grow to the lake surface during summer. The immediate shoreline has complete coniferous forest cover in the many access points on the lake shore for recreational users. Two major impacts to Lake Chatcolet are agriculturally-polluted Plummer Creek flowing into the southwest quadrant of the lake and unsewered wastewater from float houses and recreational home septic tank drainage along the south and west shores. There are approximately 250 cabins along Lake Chatcolet.

Cascade Reservoir is a very large, shallow reservoir on the North Fork of the Payette River. It does stratify in the summer with a mean epilimnion depth of 8 meters. However, that stratification may be broken down occasionally by very high winds, because of the long fetch (wind exposure) and very wide lake basin in the upstream, shallow end. At the time of sampling in early July the euphotic zone was 14 meters deep. This is reduced, however, at the time of high and abundant algal blooms. Cascade is one of the prolific reservoirs in the state for algal blooms, resulting in high organic content. At the time of sampling, chlorophyll "a" content was at a fairly high level of  $12 \mu\text{g/l}$ .

The nutrient base of Cascade is low with a conductivity of 32  $\mu\text{mho}$  and alkalinity 17 mg/l. Continual agitation of bottom sediment by wind action accounts for a high phosphorus level of  $50 \mu\text{g/l}$ . Nitrogen-phosphorus ratios are in the middle range at 8. Total nitrogen is at a moderately high level of  $0.42 \text{ mg/l}$ . An interesting aspect of the

chemistry of Cascade Lake is the very high pH 9 a notable unusual occurrence since Payette Lake, 30 miles upstream, has a low pH in the range of 6.5 to 7.1. There is obviously quite a bit of soil-origin buffering capacity and nutrient entering Cascade Reservoir. The sewage discharge from the community of McCall into the North Fork of the Payette River above Cascade, the extremely heavy grazing pressure along the North Fork of the Payette River between McCall and Cascade Reservoir, sediment contributions and heavy grazing of the upper Cascade Reservoir flats at drawdown all contribute to the loading in Cascade Reservoir.

Cascade is a very shallow reservoir further drawn down through the summer for irrigation withdrawals thereby exposing extensive mud flats in the northern end. These mudflats are grazed heavily through the summer period continually disturbing the receding shoreline. This disturbance coupled with wind agitation of the sediments, where they are exposed to wind driven current, will ensure continued high buffering capacity and nutrient levels. As a result Cascade Reservoir is relatively productive. Despite the shallow depth of Cascade, it is stratified most of the summer. A sharply clinograde oxygen curve with minimal oxygen of 3 milligrams per liter (mean hypolimnetic oxygen of 5 milligrams per liter) are typical of summer conditions in Cascade Reservoir. Soil disturbance in the Cascade Lake basin is indicated by significant levels of total coliform bacteria in the water column. Most of the Cascade Reservoir watershed area is in forest cover. Shoreline land use is 15 percent range, 28 percent forest, and the balance of 57 percent is considered wetland. It should be pointed out that much of this wetland is along the dendritic long fingers of the

reservoir at the northern shallow end. Much of this wetland is grazed heavily so the actual land to be considered range is much higher than the quoted figures. An interesting point on the cattle grazing is that the meadows around upper Cascade reservoir, as the whole Cascade valley, are heavily used for grazing during the summer months.

In summary, the present trophic status of Cascade Reservoir is classified as an upper mesotrophic lake. Its trophic status index is 17.6 and this is a reservoir in which the water quality appears to be dominated by agricultural uses enhancing the fertility of the sediments. Then natural hydrographic or natural water circulation patterns in this shallow reservoir continually suspend these sediments and dissolve nutrients into the water column. Management options would appear to focus on the concept of limitation of shoreline grazing or management of the grazing in some way to minimize direct contact of cattle with lake bottom sediments and also to minimize the contact of cattle with the tributaries to Cascade Reservoir. There are many tributaries such as Gold Fork Creek, Lake Fork Creek, and the North Fork of the Payette River, which flow through the low meadows of Cascade valley. These tributary banks are utilized heavily for grazing and offer an opportunity for a rich supply of nutrients to enter the immediate tributaries of this lake. The north end of the reservoir is undoubtedly affected to some extent by unsewered housing developments on the west side and some developing subdivision areas on the northeast corner of the reservoir in the finger area. These areas will probably become increasingly important nutrient contributors in the future as the subdivisions with seasonal and permanent homes are developed.

Bear Lake is a moderately deep lake on the Utah-Idaho border. The maximum depth of the lake is about 63 meters at a point near the mouth of South Eden Creek. The drainage basin of the lake is small and seven small tributaries around the lake contribute natural inflow to the lake. Additional inflow is provided at the north end of the lake via the Bear Lake Inlet Canal which diverts water from the Bear River allowing the natural lake to be used as an off-stream storage reservoir for power and irrigation water. Outflow from the lake is also at the north end of the lake where water is taken through a pumping plant to an outlet canal returning water to the Bear River. This inlet-outlet scheme for diverting storage water causes most of the circulation of water to occur only in the north end of the lake, thereby effectively increasing retention time and exaggerating the eutrophication problems in central and southern areas of the lake.

Most of the watershed area is dry and treeless with some dryfarm and irrigated farm lands at elevations closer to the lake. Considerable development of recreational and permanent homes has occurred in recent years and there are presently over 1500 homes surrounding the lake. None of these homes are on sewered wastewater systems. Since Bear Lake is oval shaped with no natural bays a number of artificial marina bays have been built for recreational development. Many of these marinas function as closed-water systems resulting in sediment accumulations and algae blooms within them. Heavy macrophyte growths are evident in most of the shallow inlets and protected areas along the western shoreline. Thus, there are signs of developing eutrophication in some parts of the littoral zone.

In the deeper parts of the lake the water is clear and free of excessive organic content or suspended sediments. Suspended limestone



particles in the water, which give the lake its bright blue color, and high levels of dissolved calcium carbonate result in very high levels of alkalinity and conductivity in Bear Lake. The very high levels of these variables in our trophic status index resulted in an abnormally high trophic status ranking for Bear Lake, placing it in the middle of the eutrophic range. Looking more closely at other indicators such as chlorophyll-a, organic content, dissolved oxygen in the hypolimnion, and nutrient concentrations leads one to the conclusion that the quality of Bear Lake's water remains high.

Preservation and protection of water quality rather than restoration should be the focus of management on Bear Lake. The economic importance of the lake results in its assignment to the P-1 priority classification. Based on Bear Lake data in this report, protection efforts should focus on correction of problems in the littoral zone by controlling runoff and erosion associated with shoreline development activities and on development of a sewer system to serve the many homes in the shoreline areas in order to control the supply of nutrients to the lake. Examination of the storage water diverted to the lake would seem appropriate also.

The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice. This ensures transparency and allows for easy verification of the data. The second section covers the process of reconciling bank statements with the company's internal records. It highlights the need to identify and resolve any discrepancies as soon as possible to prevent errors from accumulating. The final part of the document provides a summary of the key points and offers some practical tips for streamlining the accounting process. It suggests using software solutions to automate repetitive tasks and improve efficiency. Overall, the document aims to provide a comprehensive guide for anyone responsible for managing the company's finances.

APPENDIX A

Master List of Idaho Lakes and Reservoirs

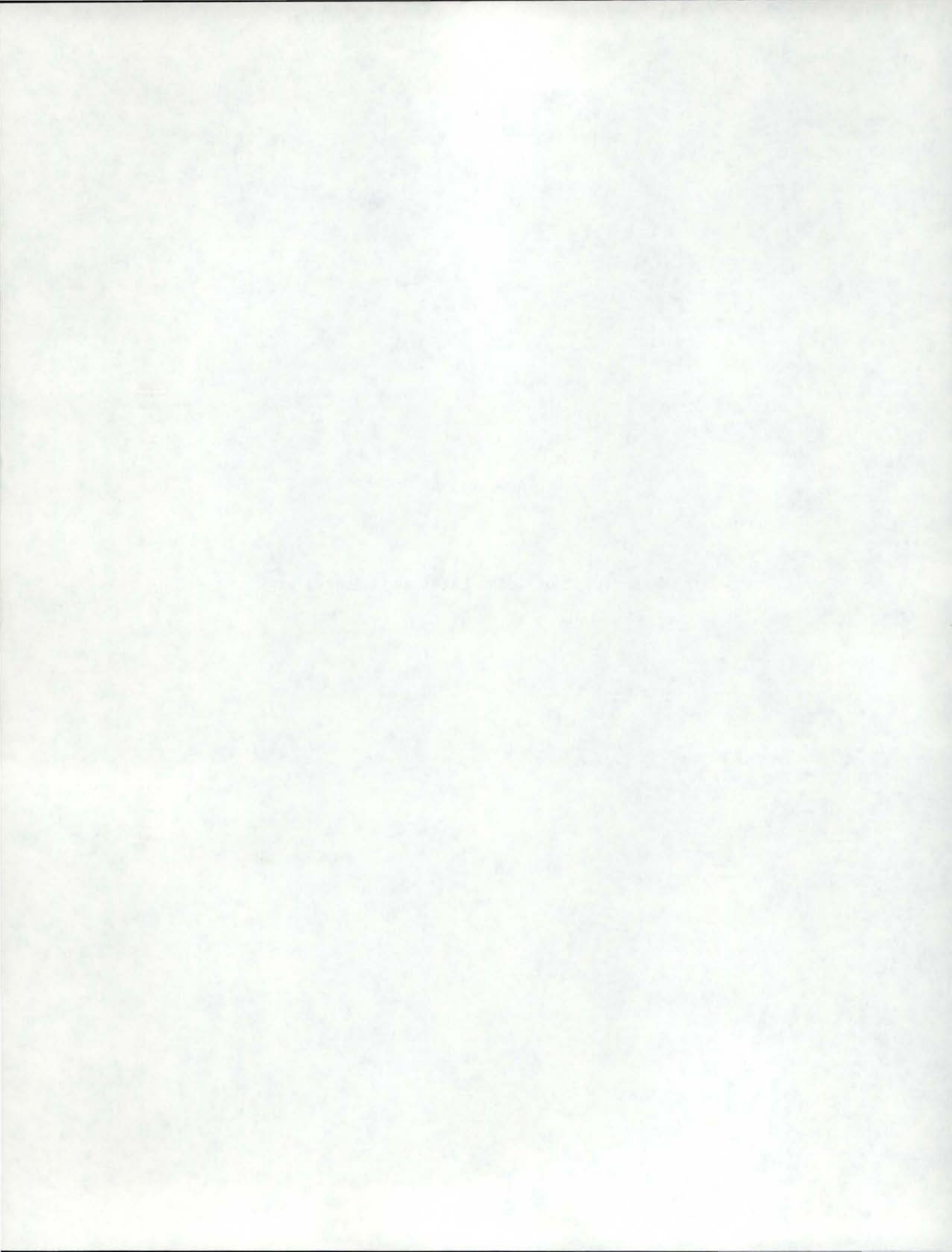


Table A-1. Key to Identification Numbers & Symbols on Computer Listing of Names Lakes in Idaho.

<u>County</u>	<u>Iden.</u>	<u>County</u>	<u>Iden.</u>	<u>County</u>	<u>Iden.</u>	<u>County</u>	<u>Iden.</u>
Ada	1	Butte	12	Gem	23	Minidoka	34
Adams	2	Camas	13	Gooding	24	Nez Perce	35
Bannock	3	Canyon	14	Idaho	25	Oneida	36
Bear Lake	4	Caribou	15	Jefferson	26	Owyhee	37
Benewah	5	Cassia	16	Jerome	27	Payette	38
Bingham	6	Clark	17	Kootenai	28	Power	39
Blaine	7	Clearwater	18	Latah	29	Shoshone	40
Boise	8	Custer	19	Lemhi	30	Twin Falls	41
Bonneville	9	Elmore	20	Lewis	31	Teton	42
Bonner	10	Franklin	21	Lincoln	32	Valley	43
Boundary	11	Fremont	22	Madison	33	Washington	44

<u>Basin Drainage</u>	<u>Iden.</u>	<u>Land Ownership</u>	<u>Iden.</u>	<u>Key to National Forests</u>
Kootenai	1	National Forest	1	BNF - Boise National Forest
Pend Oreille	2	BLM	2	BTNF - Bitterroot National Forest
Spokane	3	State	3	CANF - Cache National Forest
Palouse	4	Indian Reservation	4	CBNF - Caribou National Forest
Clearwater	5	Reserve		CDNF - Coeur d'Alene National Forest
Salmon	6	a. Encourage access	5	CHNF - Clearwater National Forest
Snake border	7	b. Discourage access	6	KANF - Kanisku National Forest
Snake Lower	8	Private	7	KONF - Kootenai National Forest
Snake Central	9			NNF - Nez Perce National Forest
Snake Upper	10			PNF - Payette National Forest
Bear	11			SNF - Salmon National Forest
				ST JNF - St. Joe National Forest
				SWNF - Sawtooth National Forest
				TNF - Targhee National Forest
				YNF - Yellowstone National Forest

Table A-2. Total Population List of Idaho Lakes.

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACREAGE
1	AIRPLANE LAKE	09	T21N	R16E	114 35 30	45 09 00	6	12.0
2	ALDOUS LAKE	22	T14N	R39E	111 51 00	44 31 15	9	5.0
3	ALGOMA LAKE	29	T56N	R02W	116 36 00	48 11 00	2	15.0
4	ALICE LAKE	16	T07N	R13E	114 56 00	43 56 30	6	72.0
5	ALIDADE LAKE	10	T07N	R11E	115 10 00	43 57 35	8	5.7
6	ALLAN LAKE	13	T26N	R20E	114 02 30	45 35 00	6	5.0
7	ALPINE LAKE	02	T08N	R12E	115 02 45	44 04 05	6	27.0
8	ALPINE LAKE	22	T10N	R12E	115 02 45	44 10 40	6	23.0
9	ALPINE LAKE	08	T20N	R16E	114 37 00	45 04 30	6	2.6
10	ALTURAS LAKE	20	T07N	R14E	114 51 35	43 55 00	6	825.0
11	AMBER LAKES (3)	20	T06N	R17E	114 28 15	43 50 30	9	4.0
12	AMERICAN FALLS RES	30	T07S	R31E	112 50 00	42 50 00	9	56055.0
13	AMERICAN HILL LAKE	35	T29N	R08E	115 26 00	45 48 00	5	2.0
14	ANDERSON LAKE	23	T18N	R04E	115 56 00	44 53 00	8	12.0
15	ANDERSON LAKE	32	T48N	R03W	116 45 00	47 27 30	3	485.0
16	ANDERSON RANCH RES	31	T01S	R08E	115 25 00	43 23 30	8	4740.0
17	ANDERSON RES	17	T09S	R05W	116 57 00	42 39 00	8	51.0
18	ANDYS LAKES (3)	32	T33N	R08E	115 29 30	46 09 00	5	2.0
19	ANGEL LAKE	35	T06N	R20E	114 02 45	43 48 00	9	12.0
20	ANNS LAKE	06	T21N	R05E	115 53 30	45 11 30	6	2.0
21	ANTELOPE LAKE	12	T55N	R02E	116 09 00	48 08 00	2	10.0
22	APPENDIX LAKE	14	T23N	R02W	116 33 15	45 19 45	7	1.9
23	ARCACIA RES, LOWER	02	T09N	R41E	111 35 15	44 08 00	9	68.0
24	ARCADIA RES, UPPER	02	T10N	R41E	111 35 45	44 08 45	9	40.0
25	ARDETH LAKE	12	T07N	R12E	115 01 00	43 57 45	8	79.0
26	ARRCWEHEAD LAKE	21	T05N	R20E	114 05 30	43 44 45	9	8.0

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
1	SALMON R	MFK SALMON	SHIP ISLAND CK	LEMHI	SAL	MT. MCGUIRE, ID
2	SN PL AQUIFER	CAMAS CK	SPRING CK	CLARK	TAR	LOWER RED ROCK LAKE
3	PEND O R R	COCOLALLA CK	ROUND L	BNR-BONNER		SAGLE, ID
4	SALMON R	CK N/A	PETTIT L	BLAINE	SAW	SNOWYSIDE PEAK, ID
5	SNAKE R	NFK BOISE R	JOHNSON CK	ELMORE	BOI	NAHNEKE MTN., ID
6	NFK SALMON	HUGHS CK	DITCH CK	LEMHI	SAL	PIQUETT MTN, MONT-ID
7	SNAKE R	SALMON R	REDFISH CK	CUSTER	SAW	WARBONNET PEAK, ID
8	SALMON R	VALLEY CK	IRON CK	CUSTER	CHA	STANLEY LAKE, ID
9	MFK SALMON	WILSON CK	ALPINE CK	LEMHI	SAL	HOODOO MEADOWS, ID
10	SNAKE R	SALMON R	ALTURAS L CK	BLAINE	SAW	ALTURAS LAKE
11	MALAD R	BIG WOOD R	WFK NFK BIG WOOD	BLAINE	SAW	AMBER LAKES, ID
12	SNAKE R			POWER		*AMERICAN FALLS SW
13	CLEARWATER	SFK CLEARWATER	AMERICAN R	IDAHO		ELK CITY, ID
14	SNAKE R	NFK PAYETTE R	SFK LAKE FK	VALLEY	PAY	FITSUM SUMMIT, ID
15	SPOKANE R	COEUR D'ALENE		KOOTENAI		*PLUMMER, ID
16	SNAKE R	BOISE R	SFK BOISE R	ELMORE	BOI	*HOUSE MOUNTAIN
17	OWYHEE R	NFK CWYHEE R	CHERRY CK	OWYHEE		CLIFFS, ID
18	SFK CLEARWATER	LOCHSA R	COOLWATER CK	IDAHO	CLE	COOLWATER MTN, IDAHO
19	BIG LCST R	EFK BIG LCST	WILDHORSE CK	CUSTER	CHA	STANDHOPE PEAK, IDAH
20	SFK SALMON	SECESH R	WILLOW BASKET	VALLEY	PAY	VICTOR PEAK, ID
21	PEND O R R	PEND OR L	CLARK FORK	BNR-BONNER	KAN	CLARK FORK, ID-MONT
22	SNAKE R	SHEEP CK	WFK SHEEP CK	IDAHO	NEZ	HE DEVIL, ID-OR
23	SNAKE R	HENRYS FORK	SAND CK	FREMONT		BLUE CREEK RSV, ID
24	SNAKE R	HENRYS FORK	SAND CK	FREMONT		BLUE CREEK RSV, ID
25	PAYETTE R	SFK PAYETTE R	TEN LAKE CK	BOISE	BOI	MOUNT EVERLY, ID
26	BIG LOST R	EFK BIG LCST R	WILC HORSE	CUSTER	CHA	GRAYS PEAK, ID

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	RASIN_NO	ACREAGE
27	ARROWHEAD LAKE	C6	T07N	R11E	115 07 00	43 58 30	8	8.0
28	ARPOWROCK RES	18	T03N	R04E	115 52 30	43 35 30	8	3100.0
29	ARTILLERY LAKE	03	T15N	R10E	115 13 30	44 40 00	6	5.0
30	ASHTON RES	27	T09N	R42F	111 29 30	44 06 00	9	398.0
31	ATWATER LAKE	25	T39N	R03W	116 38 30	46 41 30	5	20.0
32	AVCNCALE LAKE	07	T51N	R03W	116 45 15	47 46 30	3	58.0
33	AZURE LAKE	12	T07N	R11E	115 07 45	43 58 00	8	12.0
34	BACON LAKE	24	T42N	R09E	115 16 00	46 58 00	3	5.0
35	BAKER LAKE	09	T04N	R15E	114 40 30	43 41 30	9	5.0
36	BALD MTN LAKE	16	T36N	R10E	115 13 00	46 27 30	5	2.0
37	BALDY LAKE	22	T23N	R02W	116 34 15	45 19 00	7	45.0
38	BALL LAKES	20	T63N	R02W	116 37 30	48 47 30	1	8.0
39	BAPTIE LAKE	17	T05N	R21E	114 00 45	43 46 45	9	5.0
40	BARBER POND	29	T03N	R03E	116 07 00	43 33 30	8	50.0
41	BARKING FOX LAKE	20	T21N	R16E	114 36 45	45 07 45	6	3.0
42	BARON LAKE	26	T05N	R12E	115 02 00	44 05 00	8	49.0
43	BARON LAKE, LITTLE	27	T09N	R12E	115 02 50	44 05 15	8	6.9
44	BARON LAKE, UPPER	35	T09N	R12E	115 02 00	44 04 45	8	17.2
45	BARTLETT LAKE	06	T12S	R43E	111 29 00	42 24 00	11	12.0
46	BARTON RES	03	T11N	R05W	116 55 00	44 19 00	8	14.0
47	BASIN LAKE	33	T18N	R22E	113 51 00	44 50 30	6	15.0
48	BASIN LAKE	11	T23N	R02W	116 33 30	45 20 45	7	5.8
49	BASIN LAKE	19	T23N	R14E	114 47 30	45 19 00	6	8.0
50	BASIN LAKE, EAST	35	T12N	R14E	114 47 30	44 20 00	6	4.0
51	BASS LAKES (2)	25	T05N	R12E	115 00 00	43 44 30	8	8.0
52	BATTLE LAKE	09	T33N	R15E	114 35 30	46 13 00	5	25.0

OBS	BASIN1	BASIN2	BASIN3	CGUNTY	NATFCRST	MAPNAME
27	BOISE R	NFK BOISE R	JOHNSON R	ELMORE	BOI	MOUNT EVERLY, ID
28	SNAKE R	BOISE R		ELMORE	BCI	*ARROW ROCK DAM
29	MFK SALMON	PISTCL CK	45 CK	VALLEY	BOI	GREYHOUND RIDGE, ID
30	SNAKE R	HENRYS FCRK		FREMONT		*ASHTON, ID
31	CLEARWATER	PCTLATCH R	BIG BEAR C	LATAH		KENDRICK, ID
32	SPOKANE R	HAYCEN LAKE	GROUNDWATER	KOOTENAI		HAYDEN, ID
33	SNAKE R	NFK BOISE R	JOHNSON CK	ELMORE	BOI	NAHNEKE MTN., ID
34	SPCKANE R	ST JOE R	BACCN CK	SHOSHONE	STJ	BACON PEAK, ID
35	SNAKE R	BIG WCCD R	BAKER CK	BLAINE	SAW	BAKER PEAK, ID
36	NFK CLEARWATER	WEITAS CK	FRO CK	IDAHO	CLE	HOLLY CREEK, ID
37	SNAKE R	L GRANITE CK		IDAHO	NEZ	HE DEVIL, ID-OR
38	KOCTENAI R	BALL CK	SPANISH CK	BOUNDARY	KAN	PYRAMID PEAK, ID
39	BIG LOST R	EFK BIG LOST R		CUSTER	CHA	STANDHOPE PEAK, ID
40	SNAKE R	BCISE R	CANAL	ADA		LUCKY PEAK, ID
41	SALMON R	MFK SALMON R	WATERFALL CK	LEMHI	SAL	MT. MCGUIRE, ID.
42	PAYETTE R	SFK PAYETTE R	BARON CK	BOISE	SAW	WARBONNET PEAK, ID
43	PAYETTE R	SFK PAYETTE R	BARON CK	BOISE	SAW	WARBONNET PEAK, ID
44	PAYETTE R	SFK PAYETTE R	BARON CK	BOISE	SAW	WARBONNET PEAK, ID
45	BEAR R	NORTH CK		BEAR LAKE	CAR	NOUNAN, ID
46	SNAKE R	MONRCE CK		WASHINGTON		MANN CREEK
47	LEMHI R	HAYCEN CK	BASIN CK	LEMHI	SAL	LEM PEAK, ID
48	SNAKE R	SHEEP CK	MFK SHEEP CK	IDAHO	NEZ	HE DEVIL, ID-OR
49	SALMON R	CCTIGNWCCD	BASIN CK	IDAHO	SAL	COTTENWOOD BUTTE, ID
50	SALMON R	BASIN CK	E BASIN CK	CUSTER	CHA	EAST BASIN CREEK, ID
51	SFK BOISE R	ROSS FORK CK	BASS CK	CAMAS	BOI	ROSS PEAK, ID
52	MFK CLEARW	SELWAY R	EFK MOOSE C	IDAHO	NEZ	SADDLE MTN., ID

A-3

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACREAGE
53	BAYHORSE LAKE	36	T13N	R17E	114 24 00	44 24 45	6	24.0
54	BAYHORSE LAKE, LITTLE	31	T13N	R18E	114 23 00	44 24 45	6	15.0
55	BEECH LAKE	25	T11N	R01E	116 17 00	44 15 30	8	3.0
56	BEAD LAKES (2)	34	T09N	R12E	115 03 00	44 04 30	8	.
57	BEAR CREEK LAKE	29	T08N	R25E	113 30 30	43 59 30	9	5.0
58	BEAR CREEK LAKE	27	T15N	R07E	115 36 00	44 36 30	6	1.0
59	BEAR LAKE	07	T09N	R45E	111 11 15	44 07 15	9	21.0
60	BEAR LAKE	03	T09N	R15E	114 41 30	44 08 15	6	2.0
61	BEAR LAKE	17	T15S	R44E	111 20 00	42 05 00	11	70400.0
62	BEAR LAKE	30	T20N	R10E	115 17 00	45 02 30	6	15.0
63	BEAR LAKE	10	T21N	R06E	115 43 00	45 10 00	6	10.0
64	BEAR LAKE	09	T24N	R05E	115 50 00	45 26 30	6	2.0
65	BEAR LAKE	24	T26N	R06E	115 39 30	45 34 45	6	12.0
66	BEAR LAKE, LITTLE	19	T05N	R13E	114 58 00	43 44 45	8	3.0
67	BEAR LAKE, LOWER	17	T32N	R16E	114 28 30	46 06 30	5	2.0
68	BEAR LAKE, UPPER	21	T32N	R16E	114 28 00	46 06 00	5	15.0
69	BEAR PETE LAKE	27	T23N	R04E	115 57 30	45 18 30	6	3.0
70	BEAR VALLEY LAKE (3)	16	T17N	R22E	113 51 30	44 48 00	6	35.0
71	BEAVER LAKES (3)	10	T37N	R16E	114 26 00	46 33 30	5	7.0
72	BEAVER LAKE	16	T54N	R03W	116 41 30	48 00 30	2	15.0
73	BEAVER LAKE	14	T56N	R01W	116 25 00	48 13 00	2	9.0
74	BEAVER LAKE	30	T60N	R01E	116 22 30	48 31 15	2	5.0
75	BEAVER POND (E)	05	T10N	R44E	111 16 00	44 13 00	9	63.0
76	BEAVER POND		T16N	R02W	116 36 30	44 42 00	8	7.4
77	BEEHIVE LAKES (4)	07	T61N	R02W	116 39 00	48 39 00	2	11.0
78	BELL LAKE	05	T31N	R16E	114 30 00	46 02 45	5	15.0

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
53	SNAKE R	SPOKANE R	BAYHORSE CK	CUSTER	CHA	BAYHORSE LAKE, ID
54	SNAKE R	SPOKANE R	BAYHORSE CK	CUSTER	CHA	BAYHORSE LAKE, ID
55	PAYETTE R	SQUAW CK	PINE CK	GEM		DODSON PASS, ID
56				BOISE	SAW	WARBONNET PEAK, ID
57	BIG LOST R	PASS CK	BEAR CK	CUSTER	CHA	HACKAY, ID
58	SALMON R	SFK SALMON R	BEAR CK	VALLEY	BOI	WARM LAKE, ID
59	HENRYS FORK	WARM R	ROBINSON CK	FREMONT	TAR	WARM RIVER BUTTE, ID-
60	SALMON R	WARM SPRING CK	BEAR LAKE CK	CUSTER	CHA	ROBINSON BAR, ID
61	BEAR R			BEAR LAKE		*BEAR LAKE NO, ID
62	MFK SALMON	BIG CK	MONUMENTAL CK	VALLEY	PAY	EDWARDSBURG, ID
63	SNAKE R	SFK SALMON R	BEAR CK	VALLEY	PAY	PONY MEADOWS, ID
64	SNAKE R	SALMON R	BEAR CK	IDAHO		BURGDORF, ID
65	SALMON R	CROCKED CK	LAKE CK	IDAHO	NEZ	BUFFALO HUMP, ID
66	SFK BOISE R	ROSS FORK CK	L BEAR CK	CAMAS	SAW	NEWMAN PEAK, ID
67	MFK CLEARWATER	SELWAY R	BEAR CK	IDAHO	NEZ	EL CAPITAN MONT-ID
68	SELWAY R	BEAR CK		IDAHO	NEZ	EL CAPITAN MONT-ID
69	SFK SALMON R	SECESH R	LAKE CK	IDAHO	PAY	BURGDORF, ID
70	LEMHI R	HAYDEN CK	BEAR VALLEY	LEMHI	SAL	LEM PEAK, ID
71	LOCHSA R	WHITE SAND CK	SHOOT CK	IDAHO	CLE	RANGER PEAK, ID-MONT
72	PEND O R R	HCODOO CK	KELSO L	BNR-BONNER	KAN	CAREYWOOD, ID
73	PEND O R R	PEND C R L		BNR-BONNER	KAN	PACKSADDLE MTN, ID
74	PACK R	GROUSE CK	JAY CK	BOUNDARY	KAN	TWENTY MILE CR, ID
75	SNAKE R	HENRYS R	WARM R	FREMONT	TAR	SNAKE RIVER BUTTE, I
76	SNAKE R	WEISER R	GCCDRICH CK	ADM-ADAMS	PAY	CAMBRIDGE
77	PEND O R R	PACK R	BEEHIVE	BOUNDARY	KAN	THE WIGWAMS, ID
78	SELWAY R	BEAR CK		IDAHO	NEZ	EL CAPITAN MONT-ID



STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983<sup>4</sup>

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACREAGE
79	BELLAS LAKES (4)	09	T05N	R21E	113 59 00	43 47 00	9	5.0
80	BELLS LAKE	13	T46N	R02W	116 31 30	47 20 00	3	10.0
81	BELVIDERE LAKES	28	T20N	R09E	115 22 00	45 03 00	6	12.0
82	BENCH LAKES (5)	17	T09N	R13E	114 57 30	44 06 30	6	58.0
83	BENEDICT LAKE	09	T07N	R12E	115 03 30	43 57 45	8	12.0
84	BENEWAH LAKE	11	T46N	R03W	116 41 30	47 21 30	3	341.0
85	BENNETT RES	31	T09S	R02W	116 36 45	42 35 30	8	5.0
86	BERNARD LAKE	21	T13N	R08E	115 30 45	44 27 15	6	11.0
87	BERNARD LAKES (3)	04	T23N	R02W	116 34 30	45 22 00	7	7.5
88	BERRY LAKE	25	T42N	R09E	115 15 45	46 57 00	5	0.9
89	BETTY LAKE	08	T05N	R21E	114 30 00	43 47 15	9	13.0
90	BIG BOULDER LAKES(12)	20	T09N	R16E	114 37 00	44 06 00	6	70.0
91	BIG CLEAR LAKE	10	T21N	R16E	114 34 30	45 10 00	6	21.0
92	BIG FALL CK LAKE	01	T06N	R18E	114 14 40	43 52 25	9	3.0
93	BIG FISHER LAKE	02	T63N	R02W	116 34 30	48 50 15	1	8.0
94	BIG FOG LAKE	03	T32N	R10E	115 10 45	46 08 30	5	2.0
95	BIG FOOT LAKE	22	T31N	R15E	114 35 00	46 01 00	5	25.0
96	BIG LAKE	28	T05N	R22E	113 51 20	43 43 45	9	16.8
97	BIG LOST LAKE	26	T05N	R15E	114 39 45	43 44 30	9	5.0
98	BIG LOST RIVER SINK(2)	03	T05N	R30E	112 52 00	43 47 30	9	470.0
99	BIG ROARING RIVER L	01	T03N	R08E	115 27 00	43 37 15	8	15.0
100	BIG SAND LAKE	06	T34N	R16E	114 30 15	46 18 30	5	74.0
101	BIG TALK LAKE	15	T42N	R05E	115 49 00	46 59 00	5	6.0
102	BILK LAKE	14	T30N	R11E	115 02 45	45 56 00	5	2.0
103	BILLS LAKE	23	T17N	R05E	115 48 30	44 47 30	8	3.0
104	BILLS LAKE	04	T30N	R15E	114 35 30	45 58 15	5	18.0

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
79	BIG LOST R	STAR HOPE CK		CUSTER	CHA	COPPER BASIN
80	SPCKANE R	ST JCE R		BENEWAH		ST MARIES, IDAHO
81	MFK SALMON	BIG CK	BELVIDERE	VALLEY	PAY	EDWARDSBURG, ID
82	SALMON R	L REDFISH	REDFISH L	CUSTER	SAW	MT CRAMER, ID
83	PAYETTE R	SFK PAYETTE R	BENEDICT C	BOISE	BOI	MOUNT EVERLY, ID
84	SPCKANE R	ST JCE R		BENEWAH		ST MARIES, ID
85	OWYHEE R	DEEP CK	HURRY BACK	OWYHEE		WAGON BCX BASIN
86	MFK SALMON R	BEAR VALLEY	PCRTER CK	VALLEY	BOI	DEADWOOD RES, ID.
87	SNAKE R	BERNARD CK		IDAHO	NEZ	HE DEVIL, ID-OR
88	SNAKE R	MFK CLEARWATER	MEADOW CK	SHOSHONE	CLE	BACON PEAK, ID
89	BIG LOST R	EFK BIG LOST	STAR HOPE CK	CUSTER	CHA	STANDHOPE PEAK, ID
90	SALMON R	EFK SALMON R	BIG BOULDER CK	CUSTER	CHA	BOULDER CHAIN L, IDA
91	SALMON R	PANTHER CK	CLEAR CK	LEMHI	SAL	MT. MCGUIRE, ID.
92	NFK BIG LOST	SUMMIT CK	BIG FALL CK	CUSTER	CHA	PHI KAPPA MTN
93	KOCTENAI R	PARKER CK		BOUNDARY	KAN	PYRAMID PEAK, ID
94	SELWAY R	3 LINKS CK	WFK 3 LINKS CK	IDAHO	NEZ	FENN MTN, ID
95	MFK BOISE R	SELWAY R	BEAR CK	IDAHO	NEZ	HUNTER PEAK, ID
96	EFK BIG LOST	STAR HOPE CK	LAKE CK	CUSTER	CHA	MULDOON CANYON
97	MALAD R	BIG WOOD R	BAKER CK	BLAINE	SAW	BAKER PEAK, ID
98	BIG LOST R			BUTTE		BIG LOST R SINKS, ID
99	BOISE R	SFK BOISE R	TRINITY CK	ELMORE	BOI	TRINITY MTN, ID
100	LOCHSA R	WHITE SAND CK	BIG SAND CK	IDAHO	CLE	JEANETTE MTN, ID
101	CLEARWATER R	FCEHL CK		SHOSHONE	STJ	ROEHLS BUTTE
102	SELWAY R	MEADOW CK	SCHWAR CK	IDAHO	NEZ	RUNNING LAKE, ID
103	NFK PAYETTE	GCLD FORK R	KENNALLY CK	VALLEY	PAY	BLACKMARE, ID
104	SELWAY R	CUB CK	BUSHY FK C	IDAHO	NEZ	MOUNT PALOMA, ID

A-5

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 5

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACREAGE
105	BILLY SNIPES RES	06	T15S	R36E	112 17 30	42 09 00	11	3.2
106	BIRDBILL LAKE	15	T21N	R16E	114 35 00	45 08 45	6	3.0
107	BISHOP LAKE	11	T12N	R41E	111 35 30	44 23 00	9	15.1
108	BITCH LAKE	10	T31N	R12E	114 57 15	46 02 30	5	9.0
109	BLACK CANYON RES	22	T07N	R01W	116 24 00	43 56 00	8	1100.0
110	BLACK LAKE	17	T17N	R09E	115 23 30	44 48 30	6	4.0
111	BLACK LAKE	03	T21N	R02W	116 33 45	45 11 30	7	20.0
112	BLACK LAKE	15	T22N	R02E	116 12 00	45 14 45	6	5.0
113	BLACK LAKE	14	T23N	R13E	114 50 00	45 20 00	6	40.0
114	BLACK LAKE	23	T41N	R07E	115 32 30	46 52 30	5	4.0
115	BLACK LAKE	01	T47N	R03W	116 39 30	47 27 00	3	388.0
116	BLACKFOOT RR RES	07	T03S	R36E	112 17 00	43 11 00	9	640.0
117	BLACKFOOT RES	12	T05S	R40E	111 36 00	42 55 00	9	19000.0
118	BLACKMARE LAKE	36	T17N	R05E	115 48 00	44 46 00	6	40.0
119	BLACKS CREEK RES	31	T02N	R03E	116 08 00	43 28 30	8	220.0
120	BLACKSTONE RES	30	T11S	R06E	115 49 00	42 26 30	8	43.0
121	BLACKTAIL LAKE	25	T58N	R02E	116 06 00	48 21 00	2	2.0
122	BLACKWELL LAKE	20	T19N	R04E	116 00 00	44 58 15	8	25.0
123	BLANCHARD CREEK RES	19	T54N	R05W	117 15 00	48 00 15	2	38.0
124	BLANCHARD LAKE (FISH)	21	T54N	R05W	116 58 00	48 00 30	2	136.0
125	BLEAK CREEK LAKE	30	T27N	R12E	115 01 15	45 39 05	6	1.0
126	BLESSING SLOUGH	29	T48N	R02W	116 37 00	47 28 30	3	90.0
127	BLISS RESERVOIR	07	T06S	R12E	114 59 00	42 55 00	9	254.0
128	BLOOM LAKE	36	T60N	R01W	116 25 00	48 30 00	1	20.0
129	BLOOMINGTON LAKE	07	T15S	R42E	111 32 30	42 08 00	11	12.0
130	BLUE CREEK RES	03	T10N	R41E	111 37 00	44 13 00	9	16.0

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
105	BEAR R	MALAC R	LIT MALAD R	ONEIDA		MALAD CITY WEST
106	SALMON R	PANTHER CK	CLEAR CK	LEMHI	SAL	MT. MCGUIRE, ID.
107	SNAKE R	HENRYS FORK		FREMONT		ICEHOUSE CREEK
108	MFK CLEARWATER	SELWAY R	BITCH CK	IDAHO	NEZ	MOOSE RIDGE, ID
109	SNAKE R	PAYETTE R		GEN		MONTOUR, ID
110	EFK SFK SALMON	JHNSON CK	RIORDAN CK	VALLEY	BCI	CHILCOOT PEAK, ID
111	L SALMON	RAPID R	GRANITE F	ADM-ADAMS	PAY	CUPRUM, ID
112	L SALMON	HAZARD CK	WARM SPRINGS	IDAHO	PAY	HAZARD LAKE, ID
113	SALMON R	COTTICWOOD	PEAK CK	IDAHO	SAL	COTTONWOOD BUTTE, ID
114	CLEARWATER R	LOST PETE CK		CLEARWATER	CLE	MALLARD PEAK, ID
115	SPOKANE R	COEUR D'ALEN		KOOTENAI		ST MARIES, ID
116	SNAKE R	BLACKFOOT R		BINGHAM		BLACKFOOT, ID
117	SNAKE R	BLACKFOOT R		CARBON		HENRY, ID
118	SFK SALMON	BLACKMARE CK	SFK BLACKMARE	VALLEY	PAY	BLACKMARE, ID
119	MORA CANAL	INDIAN CK	TENMILE CK	ADA		OWYHEE, ID
120	BRUNEAU R	SHEEP CK	LOUSE CK	OWYHEE		BLACKSTONE RESERVOIR
121	PEND O R R	CLARKFORK R	LIGHTNING	BNR-BONNER	KAN	MT PEND OREILLE ID
122	NFK PAYETTE R	PAYETTE L	FALL CK	VALLEY	PAY	FITSUM SUMMIT, ID
123	PEND O R R	BLANCHARD CK	GROUNDWATER	BNR-BONNER		TWEEDIE, WA-ID
124	PEND O R R	GROUNDWATER		BNR-BONNER		BLANCHARD, ID
125	SALMON R	BARGAMIN CK	BLEAK CK	IDAHO	NEZ	SPREAD CREEK POINT
126	SPOKANE R	COEUR D'ALENE	CK N/N	KOOTENAI		ST. MARIES
127	SNAKE R			GOODING		*BLISS, ID
128	PEND O R L	PACK R	SAND CK	BOUNDARY	KAN	NAPLES, ID
129	BEAR R	BEAR LAKE	BLOOMINGTON CK	BEAR LAKE	CAR	PARIS PEAK, ID
130	HENRYS FORK	SAND CK	BLUE CK	FREMONT		BLUE CREEK RES, ID

A-6

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 19, 1983 <sup>6</sup>

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACREAGE
131	BLUE CREEK RES	11	T13S	R02E	116 11 00	42 18 30	8	189.0
132	BLUE CREEK RES, LIT	17	T13S	R03E	116 07 00	42 17 45	8	132.6
133	BLUE JAY LAKE	31	TC7N	R10E	115 19 00	43 53 30	8	2.0
134	BLUE JAY LAKE	20	T07N	R12E	115 05 15	43 55 30	8	7.0
135	BLUE LAKE	03	T07S	R37E	112 07 00	42 50 30	9	2.0
136	BLUE LAKES (1)	28	T09S	R17E	114 28 00	42 37 00	9	8.9
137	BLUE LAKE	05	T12N	R03E	116 08 00	44 24 30	8	5.0
138	BLUE LAKE	20	T15N	R13E	114 54 00	44 37 30	6	5.0
139	BLUE LAKE	08	T16S	R42E	111 34 00	42 02 30	11	1.0
140	BLUE LAKE	27	T21N	R06E	115 43 00	45 08 00	6	14.0
141	BLUE LAKE	09	T33N	R04W	116 50 20	46 12 45	5	7.0
142	BLUE LAKE	30	T42N	R07E	115 37 00	46 57 30	5	1.0
143	BLUE LAKE	23	T48N	R03W	116 41 00	47 29 00	3	228.0
144	BLUE LAKE	21	T57N	R04W	116 49 45	48 16 30	2	67.0
145	BLUE LAKE	06	T60N	R01E	116 23 00	48 35 00	1	10.0
146	BLUE ROCK LAKE	03	T08N	R12E	115 03 15	44 04 00	8	5.5
147	BLUEGILL LAKE	26	T09S	R13E	115 53 40	42 37 00	9	3.5
148	BONANZA LAKE	21	T08S	R29E	113 04 30	42 42 30	9	37.5
149	BCND LAKE	22	T60N	R01W	116 26 15	48 32 00	1	6.0
150	BONNER LAKE	17	T62N	R03E	116 06 30	48 45 00	1	23.0
151	BORN LAKES (5)	32	T09N	R16E	114 37 00	44 03 30	6	8.0
152	BOSTON MTN LAKE	26	T27N	R10E	115 10 45	45 38 30	6	1.0
153	BOTTLE LAKE	20	T62N	R04W	116 52 30	48 43 00	2	5.0
154	BOTTLENECK LAKE	09	T61N	R02W	116 36 00	48 39 30	1	12.0
155	BOULDER CHAIN LKS(13)	28	T09N	R16E	114 35 00	44 04 30	6	100.0
156	BOULDER LAKE	31	T06N	R20E	114 07 45	43 48 00	9	14.0

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
131	SNAKE R	OWYHEE R	BLUE CK	OWYHEE		NICHOL FLAT
132	OWYHEE R	BLUE CK	L. BLUE CK	OWYHEE		LITTLE BLUE TBL, ID
133	BOISE R	NFK BOISE	BLUE JAY C	ELMORE	BOI	SWANHOLM PEAK, ID
134	BOISE R	MFK BOISE R	QUEENS R	ELMORE	BOI	MOUNT EVERLY, ID
135	PCRTNEUF R	TOPONCE CK	SFK TOPONCE	CARIBOU	CAR	BEAR CAMP GULCH, ID
136	SNAKE R	CK N/A		JEROME		TWIN FALLS, ID
137	PAYETTE R	NFK PAYETTE R	FAWN CK	VALLEY	BOI	SMITHS FERRY
138	MFK SALMON	L LGCN CK	BLUE L CK	CUSTER	CHA	PINYON PEAK, ID
139	LIT BEAR CK	LOGAN R	BEAVER CK	FRANKLIN	CAR	EGAN BASIN, ID
140	SALMON R	SECESH R	BLUE LAKE C	VALLEY	PAY	PONY MEADOWS, ID
141	CLEARWATER R	LAPWAI CK	WFK SWEETWATER	NEZ PERCE		WAHA, ID
142	CLEARWATER R	LARKINS CK		SHOSHONE	STJ	MALLARD PEAK, ID
143	SPOKANE R	COEUR D'ALENE		KOOTENAI		*ST MARIES, ID
144	PEND O R R	PRIEST R	BLUE CK	BNR-BONNER	KAN	PRATER MTN, ID
145	KOOTENAI R	DEEP CK	GOAT CK	BOUNDARY	KAN	NAPLES, ID
146	PAYETTE R	SFK PAYETTE R		BOISE	ROI	WARBONNET PEAK
147	SNAKE R	SALMON FALLS		TWIN FALLS		BUHL, ID
148	SNA PL AQUIFER			POWER		YALE, ID
149	KOOTENAI R	DEEP CK		BOUNDARY	KAN	NAPLES, ID
150	KOOTENAI R	SAND CK		BOUNDARY	KOO	CURLEY CREEK, ID-MT
151	SALMON R	WARM SPRGS C	SALT CK	CUSTER	CHA	BOULDER CHAIN LAKES,
152	SALMON R	BARGAMIN CK	BOTTLE CK	IDAHO	NEZ	BOSTON MTN, ID
153	PRIEST R	L PRIEST		BNR-BONNER	KAN	PRIEST LAKE NW
154	DEEP CK	SNCW CK		BOUNDARY	KAN	ROMAN NOSE, ID
155	SALMON R	EFK SALMON R	L BOULDER CK	CUSTER	CHA	BOULDER CHAIN L, ID
156	EFK BIG LOST	WILD HORSE CK	BOULDER CK	CUSTER	CHA	PHI KAPPA MTN, ID

A-7

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 7

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACREAGE
157	BOULDER LAKES (4)	19	T06N	R17E	114 30 30	43 50 30	9	2.0
158	BOULDER LAKE	26	T18N	R04E	115 56 15	44 51 45	8	88.0
159	BOULDER MEADOW RES	28	T18N	R04E	115 57 45	44 52 00	8	32.0
160	BCWKNOT LAKE	05	T07N	R13E	114 57 30	43 58 00	6	2.0
161	BOX CANYON L, LOWER	35	T05N	R20E	114 03 00	43 43 00	9	3.0
162	BOX CANYON L, UPPER	26	T05N	R20E	114 04 00	43 43 45	9	2.0
163	BOX LAKE	35	T19N	R04E	115 58 30	45 01 30	8	139.0
164	BOYD LAKE	25	T34N	R15E	114 31 30	46 15 40	5	2.0
165	BOYLE CREEK RES	18	T16S	R03E	116 08 45	42 01 30	8	15.1
166	BRADLEY LAKE	14	T60N	R01W	116 26 00	48 33 00	1	12.0
167	BRANDON LAKES (2)	09	T25N	R06E	115 43 00	45 31 30	6	3.0
168	BRAXON LAKE	25	T09N	R12E	115 01 00	44 05 15	8	4.2
169	BRAY LAKE	35	T04S	R13E	114 52 30	43 02 20	9	65.5
170	BROCKIE LAKE	09	T04N	R22E	113 50 50	43 41 30	9	8.0
171	BROOKS LAKE	28	T62N	R02W	116 37 00	48 41 30	1	8.0
172	BROWN LAKE	13	T26N	R11E	115 01 30	45 35 00	6	10.0
173	BROWNLEE RES	22	T17N	R05W	116 55 00	44 49 00	7	12800.0
174	BROWNS LAKE	23	T07N	R11E	115 08 45	43 56 15	8	18.9
175	BROWNS POND	09	T18N	R04E	115 58 00	44 55 00	8	98.0
176	BRACE RES	28	T12S	R03W	116 42 30	42 21 15	8	5.0
177	BRUNDAGE RES	30	T20N	R03E	116 07 30	45 02 40	6	212.0
178	BRUNEAU RIDGE POND	02	T06S	R06E	115 42 30	42 56 00	8	300.0
179	BRUSH LAKE	20	T20N	R04E	115 59 00	45 03 00	8	20.0
180	BRUSH LAKE	15	T64N	R01E	116 18 30	48 53 00	1	37.0
181	BRUSHY FORK CK LKS(4)	16	T38N	R17E	114 20 00	46 37 30	5	10.3
182	BRUSHY FORK LAKE	34	T31N	R15E	114 34 00	45 59 10	5	20.0

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
157	SNAKE R	BIG WCCD R	BOULDER CK	BLAINE	SAW	EASLEY HOT SPRINGS
158	NFK PAYETTE R	CASCADE R	BOULDER CK	VALLEY	PAY	PADDY FLAT
159	NFK PAYETTE R	CASCADE RES	BOULDER CK	VALLEY	PAY	PADDY FLAT, ID
160	SALMON R	YELLOWBELLY		CUSTER	SAW	SNOWSIDE PEAK, ID
161	MALAD R	LIT WOOD R	BOX CANYON	BLAINE	SAW	GRAYS PEAK, ID
162	MALAD R	LIT WOOD R	BOX CANYON	BLAINE	SAW	GRAYS PEAK, IDAHO
163	NFK PAYETTE	BOX CK	MOSQUITO L	VALLEY	PAY	BOX LAKE, ID
164	SELWAY R	EFK MOOSE CK	DEAD ELK CK	IDAHO	CLE	JEANETTE MTN, ID
165	OWYHEE R	BLUE CK	BOYLE CK	OWYHEE		MOUNTAIN VIEW LAKE
166	KOOTENAI R	DEEP CK		BOUNDARY	KAN	NAPLES, ID
167	SALMON R	BULL CK	BRANDON CK	IDAHO	NEZ	BUFFALO HUMP ID
168	PAYETTE R	SFK PAYETTE R	BARON CK	BOISE	BOI	WARRONNET PEAK
169	SNAKE R	CLOVER CK	CANAL N/N	GOODING		DAVIS MTN, ID
170	BIG LCST R	ANTELCPE CK	IRON BOG CK	CUSTER	CHA	MULDOON CANYON
171	KOOTENAI R	MYRTLE CK		BOUNDARY	KAN	ROMAN NOSE, ID
172	SALMON R	SABE CK	BROWN CK	IDAHO	NEZ	SHEEP HILL, ID
173	SNAKE R			WASHINGTON		COPPERFIELD
174	MFK BOISE R	QUEENS R	LITTLE QUEENS R	ELMORE	BOI	NAHNEKE MTN, ID
175	NFK PAYETTE R	L PAYETTE R	LAKE FORK R	VALLEY	PAY	FITSUM SUMM, ID
176	OWYHEE R	DEEP CK	BEAVER CK	OWYHEE		BRACE FLAT, ID
177	L SALMON R	GOOSE CK	BRUNDAGE CK	ADM-ADAMS	PAY	*GRANITE LAKE, ID
178	SNAKE R	CANAL		OWYHEE		SAND DUNES, ID
179	PAYETTE R	NFK PAYETTE R	BRUSH CK	VALLEY	PAY	BOX LAKE, ID
180	KOOTENAI R	BRUSH CK		BOUNDARY	KAN	HALL MTN, ID
181	MFK CLEARWATER	LOCHSA R	BRUSHY FORK	IDAHO	CLE	*DICK CREEK, ID-MONT
182	SELWAY R	CUB CK	BRUSHY FORK	IDAHO	NEZ	MOUNT PALOMA, ID

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 8

UBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACREAGE
183	BUCK LAKE	29	T17N	R10E	115 16 00	44 47 15	6	15.0
184	BUCK LAKE (7)	28	T17N	R22E	113 50 30	44 46 30	6	10.0
185	BUCK LAKE	08	T19N	R04E	116 01 00	44 59 15	8	2.0
186	BUCK LAKE	33	T21N	R16E	114 35 45	45 06 00	6	4.0
187	BUCK LAKE	20	T22N	R02E	116 14 30	45 14 00	6	20.0
188	BUCK LAKE	32	T31N	R11E	115 07 00	45 59 00	5	5.0
189	BUCKHORN LAKE	16	T18N	R05E	115 51 30	44 54 00	6	30.0
190	BUCKHORN MTN. LAKE	19	T18N	R05E	115 52 45	44 53 00	6	21.0
191	BUCKHORN RES	15	T15S	R04E	115 58 30	42 07 00	8	118.0
192	BUCKINGHAM LAKE	29	T39N	R08E	115 28 30	46 42 00	5	3.0
193	BUFFALO LAKE	31	T12N	R46E	111 04 00	44 19 30	9	20.0
194	BUFFALO SKULL LAKE	01	T15N	R23E	113 41 00	44 39 40	6	2.5
195	BULL RUN LAKE	04	T49N	R01W	116 28 00	47 31 30	3	83.7
196	BULL TROUT LAKE	10	T11N	R10E	115 15 15	44 17 45	8	69.0
197	BURKHART RES	23	T09S	R03E	116 43 30	42 37 00	8	3.0
198	BURNSIDE LAKE	22	T20N	R04E	115 57 30	45 02 45	6	8.0
199	BURNT KNOB LAKES (3)	04	T27N	R12E	114 59 00	45 42 30	5	12.0
200	BUSSARD LAKE	10	T64N	R02E	116 10 30	48 54 00	1	3.0
201	BUSTER LAKE	24	T13N	R17E	114 25 00	44 26 30	6	12.0
202	BUTTE SLOUGH	08	T05N	R38E	112 00 00	43 46 30	9	54.0
203	BUTTER MILK SLOUGH	23	T10N	R05W	116 54 00	44 11 30	8	67.0
204	BYBEE RES	31	T13S	R02E	116 16 00	42 15 00	8	89.0
205	BEN ROSS RES	27	T14N	R01W	116 26 00	44 31 00	8	350.0
206	C J STRIKE RES	34	T05S	R04E	115 55 00	42 57 00	8	7500.0
207	CABINET GORGE	27	T55N	R03E	116 03 00	48 05 00	2	3200.0
208	CACHE CREEK LAKES(8)	25	T17N	R14E	114 41 00	44 46 15	6	12.0

A-9

CBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
183	MFK SALMON	PISTOL CK	TRIGGER CK	VALLEY	BCI	BIG CHIEF CREEK, ID
184	HAYDEN CK	BEAR VALLEY	BUCK CK	LEMHI	SAL	LEM PEAK, ID
185	NFK PAYETTE R	TWAH CK	ELIP CK	VALLEY	PAY	MC CALL, ID
186	SALMON R	MFK SALMON R	WILSON CK	LEMHI	SAL	HOODOO MEADOWS
187	SALMON R	L SALMON R	L. ELK CK	IDAHO	PAY	HAZARD LAKE, ID
188	SELWAY R	MEADOW CK	BUCK L CK	IDAHO	NEZ	RUNNING LAKE, ID
189	SFK SALMON R	BUCKHORN CK	MFK BUCKHORN CK	VALLEY	PAY	FITSUM PEAK, ID
190	SFK SALMON R	BUCKHORN CK		VALLEY	PAY	FITSUM SUMMIT, ID
191	BRUNEAU R	SHEEP CK	MARY'S CK	OWYHEE		INDIAN HAY MOWS, ID
192	CLEARWATER R	NFK CLEARWATER	LARSON CK	CLEARWATER	CLE	POT MTN, ID
193	HENRYS FORK	WARM R	ROBINSON CK	FREMONT	YNP	BUFFALO LAKE
194	SALMON R	LEMHI R	EFK HAYDEN CK	LEMHI	SAL	PATTERSON, ID
195	SPOKANE R	COEUR D'ALENE		KOOTENAI		KINGSTON, ID
196	PAYETTE R	SFK PAYETTE R	WARM SPRINGS CK	BOISE	BCI	BULL TROUT POINT, ID
197	OWYHEE R	DEEP CK	HURRY BACK CK	OWYHEE		SLACK MOUNTAIN
198	SALMON R	SFK SALMON R	LICK CK	VALLEY	PAY	BOX LAKE, ID
199	SELWAY R	L CLEARWATER	BURNT KNOB	IDAHO	BIT	SABE MTN., ID
200	KOCTENAI R	MOYIE R		BOUNDARY	KAN	EASTPORT, ID
201	SNAKE R	SALMON R	GARDEN CK	CUSTER	CHA	BAYHORSE LAKE, ID
202	SNAKE R	BUTTE MKT L	CANAL	JEFFERSON		*DEER PARKS, ID
203	SNAKE R			WASHINGTON		WEISER SOUTH, ID
204	OWYHEE R	BLUE CK	SHOOFLY CK	OWYHEE		SHOOFLY SPRINGS, ID
205	SNAKE R	WEISER R		ADM-ADAMS		COUNCIL, ID
206	SNAKE R			OWYHEE		MOUTH OF BRUNEAU
207	PEND O R R	CLARK FGRK		BNR-BONNER		CLARK FORK, ID-MONT
208	SALMON R	MFK SALMON	CACHE CK	LEMHI	CHA	SLEEPING DEER MTN. ID

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACREAGE
209	CALDWELL PONDS (2)	16	T04N	R03W	116 42 30	43 41 20	8	7.7
210	CALIFORNIA LAKE	30	T35N	R12E	115 00 00	46 20 30	5	8.0
211	CALIFORNIA LAKE	15	T23N	R05E	115 49 30	45 20 00	6	3.0
212	CALLENDER RES	17	T14N	R04E	115 58 00	44 33 00	8	50.0
213	CAMERON RES	03	T01N	R21E	113 56 00	43 26 45	9	30.0
214	CAMP LAKE	13	T07N	R12E	115 00 00	43 56 15	8	5.0
215	CAMPBELL PONDS (2)	18	T37N	R05E	115 52 15	46 33 30	5	7.0
216	CAMPBELL RES	30	T02N	R21E	114 00 00	43 28 30	9	200.0
217	CANNON LAKE, LOWER	19	T23N	R01W	116 30 45	45 19 30	6	3.0
218	CANNON LAKE, UPPER	24	T23N	R02W	116 31 45	45 19 30	6	0.6
219	CANYON LAKE	12	T29N	R16E	114 25 00	45 52 00	5	52.0
220	CANYON LAKE	17	T64N	R02W	116 37 30	48 54 00	1	2.0
221	CAPE HORN LAKES (3)	26	T12N	R11E	115 07 45	44 24 45	6	25.0
222	CAREY LAKE (E)	01	T01S	R21E	113 55 00	43 20 00	9	200.0
223	CARIBOU LAKE	25	T59N	R03W	116 40 15	48 26 00	2	6.0
224	CARIBOU LAKES	05	T63N	R03W	116 45 30	48 51 00	2	6.0
225	CARLSON LAKE	17	T11N	R23E	113 45 00	44 16 30	6	6.0
226	CASCADE RES	34	T14N	R03E	116 05 00	44 35 00	8	3000.0
227	CASINO LAKES (3)	28	T10N	R14E	114 49 00	44 10 30	6	8.2
228	CASTLE LAKE	21	T04N	R43E	111 22 45	43 39 00	10	2.0
229	CASTLE LAKE	04	T08N	R16E	114 34 00	44 03 30	6	5.0
230	CAT LAKES (6)	21	T11N	R09E	115 22 30	45 16 00	8	7.0
231	CATHEDRAL LAKE	24	T21N	R16E	114 32 15	45 07 45	6	18.0
232	CATHERINE LAKE	32	T20N	R10E	115 16 00	45 02 00	6	6.0
233	CATON LAKE	21	T18N	R07E	115 35 00	44 53 00	6	40.0
234	CAVE LAKE	32	T48N	R02W	116 37 00	47 27 30	3	734.0

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
209	SNAKE R	BOISE R	SEIDENBERG	CANYON		CALDWELL, ID
210	LOCHSA R	LAKE CK	FISH L CK	IDAHO	GLE	FISH LAKE, ID
211	SNAKE R	SALMON R	CALIFORNIA	IDAHO	PAY	BURGDORF, ID
212	PAYETTE R	NFK PAYETTE R	BEAVER CK	VALLEY		GOLD FORK, ID
213	MALAD R	L. WOOD R	L. FISH CK	BLAINE		LAKE HILLS, ID
214	BOISE R	MFK BOISE R	FLYTRIP CK	ELMORE	BCI	MOUNT EVERLY, ID
215	GRFINO CK	POCRMAN CK	HAY CK	CLEARWATER		HEADQUARTERS
216	MALAD R	LIT. WOOD R	CAMPBELL CK	BLAINE		*LITTLE WOOD RIV. RES.
217	SALMON R	RAPID R	CANNON CK	IDAHO	NEZ	HE DEVIL
218	SALMON R	RAPID R		IDAHO	NEZ	HE DEVIL
219	SELWAY R	WHITE CAP	CANYON CK	IDAHO	BIT	MOUNT JERUSALUM, ID-MT
220	LONG CANYON			BOUNDARY	KAN	SHORTY PEAK, ID
221	MFK SALMON	MARSH CK	BEAVER CK	CUSTER	CHA	CAPE HORN LAKES, ID
222	SNAKE R	BIG WOOD R	LIT WOOD R	BLAINE		CAREY, ID
223	PEND O R R	PACK R	CARIBOU CK	BNR-BONNER	KAN	MOUNT CASEY, ID
224	PEND O R R	PRIEST R	CARIBOU	BOUNDARY		CARIBOU CREEK, ID
225	SALMON R	PAHSIMEROI R	GOLDBURG CK	CUSTER	CHA	DOUBLESPRING, ID
226	SNAKE R	PAYETTE R	NFK PAYETTE R	VALLEY	PAY	CASCADE, ID
227	SALMON R	BIG CASINO		CUSTER	CHA	CASINO LAKES, ID
228	SNAKE R	BURNS CANYON		TETON	TAR	TEMPLE PEAK, ID
229	SALMON R	EFK SALMON	L. BOULDER	CUSTER	CHA	BOULDER CHAIN LAKES, ID
230	SFK PAYETT	WARM SPRINGS CK	CAT CK	BOISE	BOI	CACHE CREEK ID
231	SALMON R	PANTHER CK	BIG DEER CK	LEMHI	SAL	MT. MCGUIRE, ID
232	MFK SALMON	BIG CK	MFK MONUMENT CK	VALLEY	PAY	EDWARDSBURG, ID
233	SALMON R	EFK SALMON R	CATON CK	VALLEY	PAY	CATON LAKE
234	SPOKANE R	COEUR D'AL L	ST. JOE R	KOOTENAI		ST MARTES, ID

A-10

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 10

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACREAGE
235	CAYUSE LAKE	29	T38N	R13E	114 51 30	46 36 15	5	5.0
236	CEDAR CREEK RES	12	T14S	R13E	114 53 00	42 12 30	9	1500.0
237	CEDAR LAKE		T46N	R05E	115 49 45	47 20 00	3	1.0
238	CEDAR MESA RES	34	T12S	R13E	114 54 15	42 20 30	9	24.0
239	CENTER CREEK LAKES	24	T26N	R11E	115 02 30	45 34 15	6	13.0
240	CENTER LAKE	23	T22N	R03E	116 03 00	45 14 00	6	2.0
241	CHAIN LAKES	12	T08N	R45E	111 05 30	44 02 00	9	13.0
242	CHALLIS CK LAKES(3)	07	T14N	R17E	114 31 20	44 33 00	6	12.0
243	CHAMBERLAIN BSN L(7)	08	T08N	R16E	114 36 00	44 02 00	6	40.0
244	CHAMPION LAKES (6)	22	T08N	R15E	114 41 00	44 00 00	6	30.0
245	CHASE LAKE	23	T59N	R04W	116 49 30	48 27 30	2	173.0
246	CHATCOLET LAKE	05	T46N	R03W	116 45 00	47 22 00	3	1743.0
247	CHESTERFIELD RES	16	T06S	R39E	111 53 00	42 54 15	9	37.0
248	CHICKADEE LAKE	21	T07N	R12E	115 02 45	43 56 00	8	5.0
249	CHILCO LAKE	08	T52N	R03W	116 43 15	47 51 45	3	25.0
250	CHILCOOT LAKE	30	T17N	R09E	115 25 10	44 46 36	6	2.0
251	CHIMNEY LAKE	14	T33N	R09E	115 17 45	46 11 40	5	3.0
252	CLARENDON HOT SPRGS	27	T03N	R17E	114 25 00	43 33 00	9	10.0
253	CLEAR LAKE	09	T05N	R21E	113 59 00	43 46 15	9	1.0
254	CLEAR LAKES (1)	02	T09S	R14E	114 46 30	42 40 30	9	25.7
255	CLEVELAND LAKE	04	T13S	R24E	113 39 00	42 19 15	9	25.0
256	CLIFF LAKE	13	T07N	R11E	115 07 30	43 56 15	8	3.0
257	CLIFF LAKE	19	T41N	R08E	115 29 30	46 52 50	5	4.2
258	CLY LAKES (3)	36	T20N	R05E	115 54 30	45 01 30	6	19.0
259	COCOLALLA LAKE	07	T55N	R02W	116 37 30	48 07 30	2	806.0
260	COEUR D ALENE LAKE	23	T50N	R04W	116 45 00	47 40 00	3	32000.0

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
235	NFK CLEARWATER	KELLY CK	CAYUSE CK	CLEARWATER	CLE	CAYUSE JCT
236	SNAKE R	SALMON FALLS CK	CEDAR CK	TWIN FALLS		*CEDAR CREEK RSV, ID
237	COEUR D'ALENE	NFK ST JOE R	KYLE CK	SHOSHONE	STJ	WALLACE
238	SALMON R	SALMON FALLS CK	GROUNDWATE	TWIN FALLS		ROSEWORTH, ID
239	SALMON R	SABE CK	CENTER CK	IDAHO	NEZ	SHEEP HILL, ID
240	SALMON R	FRENCH CK	CENTER CK	IDAHO	PAY	BLACK TIP
241	HENRYS FORK	FALLS R	CONNANT CK	FREMONT	TAR	WARM RIVER BUTTE
242	SALMON R	CHALLIS CK	MOSQUITO FL	CUSTER	CHA	CHALLIS CREEK LAKES
243	EFK SALMON R	GERMANIA CK	CHAMBERLAIN	CUSTER	SAW	BOULDER CHAIN L, ID
244	SALMON R	CHAMPION		CUSTER	SAW	*HORTON PEAK, ID
245	PEND O R R	PRIEST R		BNR-BONNER		COOLIN, ID
246	SPOKANE R	COEUR DALEN L	ST JOE R	BENEWAH		*PLUMMER, ID
247	SNAKE R	PCRTNEUF R	24 MILE C	CARIBOU		PORTNEUF
248	SNAKE R	BOISE R	MFK BOISE R	ELMORE	BOI	MOUNT EVERLY, ID
249	SPOKANE R	GROUNDWATER		KOOTENAI		HAYDEN LAKE, ID
250	SFK SALMON R	JHNSON CK	TRAPPER CK	VALLEY	BOI	CHILCOOT PEAK, ID
251	LCCHSA R	GLD MAN CK	CHIMNEY CK	IDAHO	CLE	CHIMNEY PEAK, ID
252	MALAD R	BIG WCCO R	DEER CK	BLAINE	SAW	MAHONEY BUTTE
253	EFK BIG LOST R	STAR HOPE CK	BRGAD CANYON	CUSTER	CHA	COPPER BASIN
254	SNAKE R			GOODING		THOUSAND SPRINGS
255	SNAKE R	MARSH CK		CASSIA	SAW	MOUNT HARRISON, ID
256	SNAKE R	BOISE R	MFK BOISE R	ELMORE	BOI	MOUNT EVERLY, ID
257	SKULL CK	CCLLINS C	CLIFF CK	CLEARWATER	CLE	PCLE MOUNTAIN
258	SFK SALMON R	SECESH R	LICK CK	VALLEY	PAY	BOX LAKE, ID
259	PEND O R R	COCCLALLA		BNR-BONNER		*COCCLALLA, ID
260	SPOKANE R			KOOTENAI		COEUR D'ALENE, ID

A-12

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 11

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACREAGE
261	COFFEE CUP LAKE	09	T21N	R02E	116 13 00	45 10 15	6	5.0
262	COLBURN LAKE	17	T58N	R02W	116 37 30	48 23 00	2	0.5
263	COLD LAKE (2)	23	T40N	R09E	115 17 00	46 47 30	5	0.5
264	COLLIE LAKE	02	T12N	R10E	115 13 30	44 24 30	6	10.0
265	COLT CREEK LAKES (3)	33	T36N	R14E	114 43 00	46 24 30	5	19.6
266	COLT LAKE	05	T35N	R14E	114 43 30	46 24 00	5	10.0
267	COMBE RES (E)	31	T05N	R28E	113 10 30	43 43 30	9	5.0
268	CONDIE RES	14	T14S	R39E	111 52 00	42 12 30	11	117.0
269	CONFUSION LAKE	15	T07N	R12E	115 02 30	43 56 15	8	8.0
270	CONTINENTAL LAKE (E)	06	T65N	R04W	116 53 30	48 55 30	2	2.0
271	CONY LAKE	05	T08N	R12E	115 05 00	44 03 30	8	8.7
272	COOKS LAKE	27	T62N	R02W	116 35 00	48 42 00	1	8.0
273	COOLWATER LAKE	34	T33N	R08E	115 27 00	46 09 00	5	8.0
274	COPENHAGEN LAKE(E)	05	T13S	R42E	111 33 30	42 19 00	11	1.0
275	COPPER LAKE	23	T09N	R24E	113 35 45	44 06 00	9	2.0
276	COPPER LAKE	36	T42N	R09E	115 16 10	46 55 50	5	3.4
277	COPPER LAKE	08	T65N	R03E	116 06 30	48 59 30	1	2.0
278	COQUINA LAKE	28	T32N	R16E	114 28 40	46 05 15	5	21.0
279	CORBUS LAKE	24	T05N	R10E	115 13 00	43 45 00	8	2.0
280	CORKY LAKE	31	T35N	R16E	114 30 30	46 19 45	5	18.0
281	CORN LAKE	21	T24N	R16E	114 37 00	45 23 30	6	0.3
282	CORNER LAKE	32	T62N	R02W	116 37 00	48 41 00	1	2.0
283	CORRAL CREEK RES	13	T13N	R04E	115 55 15	44 28 00	8	44.0
284	CORRAL LAKE	35	T21N	R02E	116 11 00	45 07 30	6	8.0
285	COTTONWOOD LAKE	06	T22N	R14E	114 47 15	45 17 00	6	12.0
286	COTTONWOOD CREEK RES	02	T12S	R17E	114 25 30	42 24 45	9	51.0

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
261	SALMON R	LIT SALMON R	HAZARD CK	IDAHO	PAY	HAZARD LAKE, ID
262	PEND O R R	PACK R	COLBURN CK	BNR-BONNER		COLBURN, ID
263	CLEARWATER R	NFK CLEARWATER	ELIZABETH CK	CLEARWATER	CLE	ELIZABETH LAKE, ID
264	MFK SALMON	MARSH CK	COLLIE CK	CUSTER	CHA	CAPE HORN LAKES, ID
265	LOCHSA R	WHITE SAND CK	COLT CK	IDAHO	CLE	GRAVE PEAK, ID
266	LOCHSA R	WHITE SAND CK	COLT CK	IDAHO	CLE	GRAVE PEAK, ID
267	SN PL AQUIFER	COMBE CANYON	WOOD CANYON	BUTTE	CHA	ARCO HILLS, ID
268	BEAR R	BATTLE CK		FRANKLIN		RIVERDALE, ID
269	BOISE R	MFK BCISE	ROCK CK	ELMORE	BOI	MOUNT EVERLY, ID
270	PEND C R R	PRIEST R	LIME CK	BOUNDARY		CONTINENTAL MTN
271	PAYETTE R	SFK PAYETTE R	GOAT CK	BOISE	BOI	WARBCNNET PEAK
272	KCCTENAI R	MYRTLE CK	COOK CK	BOUNDARY	KAN	ROMAN NOSE, ID
273	MFK CLEARWATER	LOCHSA R	FIRE CK	IDAHO	CLE	COOLWATER MTN, ID
274	BEAR R	OVID CK	MILL CK	BEAR LAKE	CAR	MIDNIGHT MTN
275	L LCST R	DRY CK		CUSTER	CHA	MASSACRE MTN
276	SNAKE R	MFK CLEARWATER	MEADOW CK	SHOSHONE	CLE	BACON PEAK, ID
277	KOCTENAI R	MOYIE R	COPPER CK	BOUNDARY	KAN	CANUCK PEAK, ID-MT
278	MFK CLEARWATER	SELWAY R	BEAR CK	IDAHO	NEZ	EL CAPITAN MONT-ID
279	MFK BOISE R	YUBA R	CORBUS CK	ELMORE	BOI	CAYUSE POINT
280	LOCHSA R	HIDDEN CK	BIG SAND CK	IDAHO	CLE	JEANETTE MTN, ID
281	SNAKE R	SALMON R	CORN CK	LEMHI	SAL	HORSE CREEK BUTTE
282	DEEP CK	SNOW CK	CORNER CK	BOUNDARY	KAN	ROMAN NOSE, ID
283	NFK PAYETTE R	BIG CK	CORRAL CK	VALLEY		BOILING SPRINGS, ID
284	L SALMON R	BRCWN CK	HARD CK	IDAHO	PAY	BRUNDAGE MTN, ID
285	SNAKE R	SALMON R	KITCHEN CK	IDAHO	SAL	COTTONWOOD BUTTE, ID
286	SNAKE R	ROCK CK	COTTONWOOD	TWIN FALLS		HUB BUTTE, ID

A-13



STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1985 12

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACREAGE
287	COUGAR LAKE	35	T18N	R18E	114 19 00	44 51 00	6	8.0
288	COUGAR LAKES (2)	02	T17N	R05E	115 48 30	44 50 15	6	8.0
289	COVE ARM RES	21	T05S	R05E	115 51 30	42 58 00	8	76.0
290	COVE LAKES	32	T33N	R10E	115 14 00	46 09 00	5	10.0
291	COW CREEK RES	12	T01S	R11E	115 05 30	43 21 00	9	43.0
292	COW LAKE	34	T20N	R05E	115 49 45	45 01 45	6	8.0
293	COWAN RES (E)	30	T15S	R08E	115 34 00	42 05 30	8	55.9
294	CRAG LAKE	01	T07S	R41E	111 36 30	42 50 00	9	149.0
295	CRAG LAKE	28	T42N	R07E	115 35 15	46 57 00	5	10.0
296	CRAMER LAKE, LOWER	13	T08N	R12E	114 59 45	44 02 00	6	10.0
297	CRAMER LAKE, MIDDLE	07	T08N	R13E	114 59 30	44 01 45	6	12.0
298	CRAMER LAKE, UPPER	07	T08N	R13E	114 59 15	44 01 45	6	31.0
299	CRANE CREEK RES	19	T12N	R02W	116 35 00	44 22 00	8	3270.0
300	CRANE FALLS LAKE	27	T05S	R05E	115 51 00	42 57 00	8	94.0
301	CRATER LAKE	05	T09N	R16E	114 36 30	44 08 00	6	15.0
302	CRATER LAKE	25	T20N	R08E	115 25 30	45 02 30	6	13.0
303	CRATER LAKE	10	T21N	R16E	114 34 45	45 10 00	6	8.0
304	CRATER LAKE	04	T24N	R01W	116 27 30	45 27 00	6	3.0
305	CRATER LAKE	29	T43N	R04E	115 59 00	47 02 00	3	5.0
306	LAKE CREEK LAKES (2)	16	T05N	R18E	114 19 40	43 46 30	9	2.0
307	LAKE CREEK LAKES	11	T26N	R11E	115 03 30	45 36 30	6	30.0
308	CRESCENT LAKE	13	T26N	R06E	115 39 00	45 35 30	6	5.0
309	CRIMSON LAKE	25	T13N	R13E	114 53 30	44 25 15	6	15.7
310	CROW LAKE	35	T44N	R04E	115 55 30	47 06 50	3	2.0
311	CROWTHER RES	16	T14S	R36E	112 17 15	42 13 15	11	11.2
312	CRYSTAL LAKE	27	T19N	R04E	115 57 30	44 57 00	8	10.0

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
287	MFK SALMON	CAMAS CK	PANTHER CK	LEMHI	SAL	BLACK MTN, ID
288	SALMON R	SFK SALMON R	CCUGAR CK	VALLEY	PAY	BLACKMARE, ID
289	SNAKE R			OWYHEE		BRUNEAU, ID
290	MFK CLEARWATER	SELWAY R	WFK GEDNEY CK	IDAHO	NEZ	FENN MTN, ID
291	BIG WOOD R	CAMAS CK	COW CK	ELMORE		HILL CREEK CITY, ID
292	SFK SALMON R	SECEST R	COW CK	VALLEY	PAY	ENOS LAKE, ID
293	WFK BRUNEAU R	JARBIDGE	CCUGAR CK	OWYHEE		COWAN RES
294	SNAKE R	BLACKFCGT R		CARIBOU		HENRY, ID
295	CLEARWATER R	SANTOOTH R	CATARACT CK	SHOSHONE	STJ	MALLARD PEAK, ID
296	SALMON R	REDFISH L CK		CUSTER	SAW	MT CRAMER, ID
297	SALMON R	REDFISH L CK		CUSTER	SAW	MT CRAMER, ID
298	SALMON R	REDFISH L CK		CUSTER	SAW	MT CRAMER, ID
299	SNAKE R	WEISER R	CRANE CK	WASHINGTON		CRANE CREEK RSV
300	SNAKE R			OWYHEE		BRUNEAU, ID
301	SALMON R	SLATE CK	LIVINGSTON	CUSTER	CHA	LIVINGSTON CR, IDAHO
302	SALMON R	SFK SALMON R	PROFILE CK	VALLEY	PAY	PROFILE GAP, ID
303	SALMON R	PANTHER CK	CLEAR CK	LEMHI	SAL	MT MCGUIRE
304	SALMON R	SFK RACE CK	GRAVE CK	IDAHO	NEZ	KESSLER CREEK, ID
305	ST JOE R	MARBLE CK	DELANEY CRK	SHOSHONE	STJ	WIDOW MTN, ID
306	SNAKE R	BIG WOOD R	LAKE CK	BLAINE	SAW	ROCK ROLL CANYON, ID
307	SALMON R	BARGAMIN CK	LAKE CK	IDAHO	NEZ	SHEEP HILL, ID
308	SALMON R	CROCKED CK	LAKE CK	IDAHO	NEZ	BUFFALO HUMP, ID
309	SALMON R	WFK YANKEE FORK	CABIN CK	CUSTER	CHA	KNAPP LAKES, ID
310	ST JOE R	FISHHOOK CK	MIDDLE CR	SHOSHONE	STJ	WIDOW MTN, ID
311	BEAR R	MALAD R	DEVIL CK	ONEIDA		MALAD CITY WEST, ID
312	NFK PAYETTE R	LAKE FORK R	NFK LAKE FORK R	VALLEY	PAY	FITSUM SUMMIT, ID

A-14

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 <sup>13</sup>

OBS	NAME	SECTION	TCWNSHIP	RANGE	LONGTUDE	LATITUDE	BASIN_NO	ACREAGE
313	CRYSTAL LAKE	26	T22N	R02W	116 33 15	45 13 45	7	5.0
314	CRYSTAL LAKE	35	T27N	R06E	115 41 00	45 37 30	6	30.0
315	CRYSTAL LAKE	34	T34N	R10E	115 11 30	46 14 30	5	3.0
316	CRYSTAL LAKE	31	T47N	R01E	116 22 45	47 22 30	3	8.0
317	CUB LAKE	07	T09N	R45E	111 11 00	44 07 30	9	7.0
318	CUB LAKE	20	T31N	R16E	114 30 00	46 00 30	5	21.0
319	CURTIS LAKE	36	T15N	R05E	115 48 15	44 35 15	6	.
320	CUTOFF LAKE	35	T64N	R03W	116 40 30	48 51 30	2	7.0
321	CUTTHROAT LAKE	15	T14N	R10E	115 13 30	44 33 00	6	5.0
322	CUTTHROAT LAKE	34	T24N	R09E	115 20 00	45 22 30	6	15.0
323	DAN LAKE	09	T36N	R16E	114 27 30	46 28 30	5	6.0
324	DANDY LAKE	29	T07N	R12E	115 05 00	43 55 00	8	7.0
325	DANIELS RES	26	T12S	R34E	112 26 00	42 21 00	11	375.0
326	DARLING LAKE	01	T58N	R02E	116 07 00	48 24 00	2	5.0
327	DAVIS LAKE	36	T08N	R39E	111 47 30	43 58 30	9	18.0
328	DAVIS RES	29	T14N	R04E	115 59 15	44 31 00	8	11.0
329	DAWSON LAKE	29	T63N	R02E	116 14 45	48 46 30	1	31.0
330	DEADWOOD RES	17	T11N	R07E	115 40 00	44 19 30	8	3200.0
331	DEEP CK RES,LOWER (E)	18	T13S	R16E	114 37 30	42 17 45	9	20.0
332	DEEP CK RES,UPPER (E)	20	T13S	R16E	114 37 00	42 16 30	9	95.6
333	DEEP CK RES,UPPER (E)	21	T14S	R37E	112 08 00	42 11 30	11	33.0
334	DEEP CK RES	18	T14S	R37E	112 10 00	42 12 30	11	61.8
335	DEEP LAKE	11	T20N	R04E	115 56 00	45 09 30	8	30.0
336	DEER LAKE	18	T21N	R17E	114 30 15	45 09 00	6	13.0
337	DEER LAKE	35	T26N	R06E	115 41 00	45 32 45	6	8.8
338	DEER LAKES (2)	13	T07N	R15E	114 37 45	43 56 30	6	10.0

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
313	L SALMON R	RAPID R	PARADISE CK	ADM-AGAMS	PAY	CUPRUM, ID
314	SALMCN R	CRGCKED CK	LAKE CK	IDAHO	NEZ	NORTH POLE, ID
315	SELWAY R	MOOSE CK	RHODA CK	IDAHO	NEZ	FENN MTN, ID
316	SPOKANE R	COEUR DALEN L	LATOUR CK	BENEWAH		ROCHAT PEAK, ID
317	HENRYS FORK	WARM R	ROBINSON CK	FREMONT	TAR	WARM RIVER BUTTE
318	SELWAY R	BEAR CK	CUB CK	IDAHO	NEZ	EL CAPITAN MONT-ID
319	SFK SALMON R	BIG CK	CURTIS CK	VALLEY	BOI	GOLD FCRK, ID
320	KCCTENAI R	SMITH CK	CUTOFF CK	BOUNDARY	KAN	SMITH PEAK, ID
321	MFK SALMON	SOLDIER CK	MUSKEG CK	USTER	CHA	GREYHOUND RIDGE, IDA
322	SALMCN R	CHAMBERLAIN CK		IDAHO	PAY	SHEEPEATER MTN, ID
323	NFK CLEARWATER	LOCHSA R	WHITE SAND CK	IDAHO	CLE	WHITE SAND L MONT-ID
324	BOISE R	MFK EOISE R	ROCK CK	ELMORE	BOI	MOUNT EVERLY, ID
325	BEAR R	MALAD R	L MALAD R	ONEIDA		DANIELS, ID
326	PEND O R R	CLARKFCRK R	LIGHTNING	BNR-BONNER	KAN	MT PEND OREILLE, ID
327	CARTIER SLOUGH	ST ANTHONY	EGIN LAKES	FREMONT		PARKER, ID
328	PAYETTE R	NFK PAYETTE R	BEAVER CK	VALLEY		GOLDFORK
329	MOYIE R	MEADCW CK	SPREAD CK	BOUNDARY	KAN	MEADOW CREEK, ID
330	SNAKE R	PAYETTE R	DEADWOOD R	VALLEY	BOI	DEADWOOD RES
331	SNAKE R	SALMCN FALLS	DEEP CK	TWIN FALLS		HOLLISTER SW, ID
332	SNAKE R	SALMON FALLS	DEEP CK	TWIN FALLS	CAR	HOLLISTER SW, ID
333				ONEIDA	CAR	MALAD CITY EAST, ID
334	MALAD R	DEEP CK		ONEIDA	CAR	MALAD CITY EAST, ID
335	SNAKE R	NFK PAYETTE R	TRAIL CK	VALLEY	PAY	VICTOR PEAK, ID
336	SALMON R	PANTHER CK	BIG DEER CK	LEMHI	SAL	MT MCGUIRE, ID
337	SALMON R	CRCKED CK	LAKE CK	IDAHO	NEZ	BUFFALC HUMP, ID
338	EFK SALMON R	GERMANIA CK	DEER CK	USTER	SAW	HORTON PEAK, IDAHO

A-15

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 <sup>14</sup>

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACREAGE
339	DENNIS LAKES (2)	05	T25N	R13E	114 53 00	45 32 00	6	29.0
340	DENTON SLOUGH	18	T56N	R02E	116 15 00	48 12 00	2	105.8
341	DEVILS CK RES	13	T13S	R36E	112 10 00	42 16 00	11	140.0
342	DEVILS LAKE	25	T42N	R06E	115 38 00	46 57 30	5	2.0
343	DIAMOND LAKE	23	T07N	R11E	115 09 45	43 56 00	8	6.0
344	DIAMOND LAKE	24	T32N	R15E	114 32 30	46 05 40	5	10.0
345	DIERKES LAKE	31	T09S	R18E	114 23 00	42 35 45	9	25.0
346	DISAPPOINTMENT LAKE	03	T21N	R02E	116 12 30	45 11 00	6	20.0
347	DISHPAN LAKE	16	T33N	R10E	115 13 00	46 11 45	5	7.0
348	DISMAL LAKE	11	T17N	R05E	115 49 00	44 49 00	3	3.0
349	DISMAL LAKE	31	T44N	R07E	115 38 00	47 07 00	8	7.0
350	DIVIDE LAKE	26	T60N	R02E	116 10 00	48 31 00	3	2.0
351	DODGE LAKE	20	T36N	R13E	114 51 30	46 21 15	5	2.0
352	DODGE LAKE	15	T36N	R16E	114 27 15	46 28 00	5	10.0
353	DOE LAKE	33	T21N	R16E	114 36 00	45 06 00	6	3.0
354	DOE LAKE	28	T31N	R11E	115 05 00	46 00 00	5	15.0
355	DOG CREEK RES	01	T05S	R14E	114 45 00	43 01 00	9	95.0
356	DOG LAKE	35	T23N	R02W	116 33 30	45 17 45	6	13.0
357	DOGME LAKE	06	T22N	R16E	114 31 00	45 15 40	6	18.0
358	DOUGAL RES	11	T09S	R06W	117 00 00	42 39 45	8	83.0
359	DRY CREEK RES		T09N	R24E	113 32 30	44 08 15	6	51.0
360	DRY CREEK RES	29	T10S	R01E	116 22 00	42 32 00	8	71.0
361	DUCK LAKE	23	T20N	R04E	115 56 00	45 03 30	6	15.0
362	DUCK LAKE	26	T21N	R02E	116 09 30	45 07 00	6	10.0
363	DUCK LAKE	08	T34N	R15E	114 36 00	46 18 00	5	10.0
364	DUCK LAKE, UPPER	08	T34N	R15E	114 36 00	46 17 45	5	3.5

A-16

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
339	SALMON R	SABE CK	DENNIS CK	IDAHO	BIT	DENNIS MTN, ID
340	PEND O R R	PEND O R L	CLARK FORK	BNR-BONNER	KAN	PACKSADDLE MTN, ID
341	BEAR R	MALAD R	DEVIL CK	ONEIDA		MALAD SUMMIT, ID
342	SNAKE R	CLEARWATER R	DEVILS CLUB	SHOSHONE	STJ	BUZZARD ROOST, ID
343	SNAKE R	MFK BOISE R	QUEENS R	ELMORE	BOI	NAHNEKE MTN., ID
344	MFK CLEARWATER	SELWAY R	BEAR CK	IDAHO	NEZ	HUNTER PEAK, ID
345	SNAKE R	GROUNDWATER		TWIN FALLS		TWIN FALLS, ID
346	SALMON R	L SALMON R	HAZARD CK	IDAHO	PAY	HAZARD LAKE, ID
347	MFK CLEARWATER	LOCHSA R	OLD MAN CK	IDAHO	CLE	FENN MTN, ID
348	NFK PAYETTE R	GOLD FORK R	KENNALLY CK	VALLEY	PAY	BLACKHARE, IDA
349	COEUR D'ALENE	ST JCE R	WFK BLUFF CK	SHOSHONE	STJ	MONTANA PEAK
350	KOCTENAI R	EFK BCULDER CKH	UNT GIRL CK	BOUNDARY	KAN	CLIFTY MTN., ID
351	LOCHSA R	WARM SPRINGS CK	DODGE CK	IDAHO	CLE	HUNGRY ROCK, ID
352	LOCHSA R	WHITE SAND CK	STGRM CK	IDAHO	CLE	WHITE SAND L MONT-ID
353	MFK SALMON R	WILSON CK	BUCK L	LEMHI	SAL	HOODOO MEADOWS
354	MFK CLEARWATER	SELWAY R	MINK CK	IDAHO	NEZ	MINK PEAK, ID
355	SNAKE R	MALAD R	BIG WOOD R	GOODING		THORN CREEK SW, ID
356	SALMON R	L SALMON R	WFK RAPID	IDAHO	NEZ	HE DEVIL
357	SNAKE R	SALMON R	LAKE CK	LEMHI	SAL	LONG TOM MTN, IDAHO
358	OWYHEE R	NFK OWYHEE R	CHERRY CK	OWYHEE		*CLIFFS, ID
359	SALMON R	PAHSIMERC	DRY CK	CUSTER		SHORT CK, ID
360	OWYHEE R	BATTLE CK	DRY CK	OWYHEE		CRAB SPRG BUTTE, ID
361	SALMON R	SFK SALMON R	LICK CK	VALLEY		BOX LAKE, ID
362	L SALMON R	BROWN CK	HARD CK	IDAHO	PAY	BRUNDAGE MTN, ID
363	LOCHSA R	WHITE SAND CK	BIG SAND CK	IDAHO	CLE	JEANETTE MTN, ID
364	LOCHSA R	WHITE SAND	BIG SAND CK	IDAHO	CLE	JFANETTE MTN, ID

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 15

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACREAGE
365	DUNES LAKE	13	T06S	R06E	115 42 00	42 54 00	8	100.0
366	DUTCH LAKE	27	T12N	R11E	115 10 00	44 20 40	6	3.0
367	DWORSHAK RES	35	T37N	R01E	116 15 00	46 30.00	5	17090.0
368	EAGLE MTN LAKE	29	T35N	R11E	115 06 45	46 20 30	5	4.0
369	EAST PEAK LAKE	14	T33N	R10E	115 10 00	46 12 30	5	5.0
370	EATCN LAKE	14	T56N	R01W	116 25 00	48 12 30	2	9.0
371	ECHO LAKE	04	T10S	R18E	114 21 15	42 34 45	9	
372	ECHO LAKE	32	T21N	R16E	114 36 30	45 06 30	6	5.5
373	ECHO LAKE	15	T23N	R02W	116 34 00	45 19 45	7	8.7
374	EDDY LAKE	14	T15N	R17E	114 26 00	44 37 00	6	1.0
375	EDEN LAKE	15	T22N	R02E	116 12 15	45 14 30	6	1.0
376	EDITH LAKE	32	T08N	R13E	114 57 30	43 58 30	6	6.0
377	EDNA LAKE	31	T07N	R13E	114 59 45	43 57 58	8	56.0
378	EDWARDS LAKE	04	T16N	R43E	111 23 00	44 44 30	9	5.0
379	EGIN LAKES (E3)	04	T07N	R39E	111 50 00	43 57 30	9	20.0
380	ELIZABETH LAKE	26	T11N	R11E	115 09 00	44 16 00	6	3.0
381	ELIZABETH LAKE	16	T33N	R10E	115 12 30	46 11 45	5	29.0
382	ELIZABETH LAKE	24	T40N	R09E	116 16 20	46 47 20	5	5.0
383	ELK CREEK RES	35	T40N	R02E	116 10 00	46 46 00	5	61.0
384	ELK LAKE	16	T08N	R12E	115 04 00	44 01 30	8	22.5
385	ELK LAKE	06	T10N	R15E	114 45 00	44 13 30	6	2.0
386	ELK LAKE	35	T13N	R12E	115 02 30	44 24 30	6	13.0
387	ELK LAKE	32	T23N	R02E	116 14 45	45 17 30	6	7.2
388	ELK LAKE	22	T29N	R11E	115 05 00	45 51 00	5	3.0
389	ELK TRACK LAKES (4)	35	T27N	R13E	114 49 00	45 37 50	5	11.0
390	ELKHCRN RES (E)	01	T13S	R34E	112 25 15	42 18 15	11	324.0

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
365	SNAKE R	GROUNWATER		OWYHEE		INDIAN COVE, ID
366	MFK SALMON	MARSH CK	SWAMP CK	CUSTER	CHA	BANNER SUMMIT
367	SNAKE R	NFK CLEARWATER		CLEARWATER	CLE	DENT, ID
368	MFK CLEARWATER	LOCHSA R	LAKE CK	IDAHO	CLE	FISH LAKE, ID
369	MFK CLEARWATER	SELWAY R	3 LINKS L	IDAHO	NEZ	FENN MTN, ID
370	PEND O R R	PEAD C R L		BNR-BONNER	KAN	PACKSADDLE MTN, ID
371	SNAKE R	GROUNWATER		TWIN FALLS		KIMBERLY, ID
372	MFK SALMON	WILSON CK	REFLECTION	LEMHI	SAL	HOODOO MEADOWS
373	SNAKE R	L GRANITE CK		IDAHO	NEZ	HE DEVIL
374	SALMON R	CHALLIS CK	EDCY CK	CUSTER	CHA	TWIN PEAKS, ID
375	L SALMON R	HAZARD CK	WARM SPRGS	IDAHO	PAY	HAZARD LAKE, ID
376	SALMON R	YELLOWBELLY	FARLEY LAKE	CUSTER	SAW	SNOWSIDE PEAK, ID
377	PAYETTE R	SFK PAYETTE	TENLAKE CK	BOISE	BOI	SNOWSIDE PEAK, ID
378	SNAKE R	HENRYS FORK	TARGHEE CK	FREMONT	TAR	TARGHEE PEAK, ID-MONT
379	CARTIER SLCUGH	ST ANTHONY		FREMONT		PARKER
380	SALMON R	VALLEY CK	ELK CK	CUSTER	CHA	BANNER SUMMIT ID
381	LOCHSA R	CLD MAN CK	CK N/N	IDAHO	CLE	FENN MTN, ID
382	CLEARWATER R	NFK CLEARWATER		CLEARWATER	CLE	ELIZABETH LAKE, ID
383	SNAKE R	NFK CLEARWATER	ELK CK	CLEARWATER		ELK RIVER, ID
384	PAYETTE R	SFK PAYETTE R		BOISE	BOI	WARBONNET PEAK
385	SALMON R	ELK CK	KNAPP CK	CUSTER	CHA	ROBINSON BAR, ID
386	MFK SALMON R	MARSH CK	ELK CK	CUSTER	CHA	LANGER PEAK, ID
387	SALMON R	L SALMON R	MEADCK CK	IDAHO	PAY	PATRICK BUTTE, ID
388	MFK CLEARWATER	SELWAY R	THREE LAKE	IDAHO	NEZ	GREEN MTN, ID
389	MFK CLEARWATER	SELWAY R	L MALAD R	IDAHO	BIT	MAGRUDER MTN, ID
390	BEAR R	MALAD R		GNEIDA		DANIELS, ID

A-17

STATISTICAL ANALYSIS SYSTEM

16  
16:21 THURSDAY, FEBRUARY 10, 1983

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGTUDE	LATITUDE	BASIN_NO	ACREAGE
391	ELLIE LAKE	23	T40N	R09E	115 16 30	46 47 30	5	1.0
392	ELMORE, LAKE	24	T04N	R01E	116 16 00	43 39 45	8	6.4
393	ELSIE LAKE	13	T47N	R03E	116 01 00	47 26 00	3	12.0
394	EMERALD LAKE	27	T22N	R02W	116 34 15	45 13 00	7	24.0
395	EMERALD LAKE	35	T26N	R04E	115 55 00	45 32 30	6	5.0
396	EMERALD LAKE	04	T30N	R15E	114 36 30	45 57 45	5	23.0
397	ENOS LAKE	04	T20N	R05E	115 56 30	45 06 00	6	160.0
398	ESTELLE, LAKE	18	T58N	R03E	116 06 30	48 22 30	1	3.0
399	EVERLY LAKE	08	T07N	R12E	115 05 00	43 57 15	8	12.0
400	EVERSON LAKE	16	T15N	R24E	113 37 00	44 37 40	6	20.0
401	F-82 LAKE	04	T12N	R12E	115 04 00	44 23 30	6	8.0
402	FAIRCHILD	14	T13N	R05W	116 53 00	44 28 00	8	110.0
403	FALCONBERRY LAKE	04	T16N	R14E	114 45 15	44 45 00	6	7.0
404	FARLEY LAKE	34	T08N	R13E	114 56 00	43 58 30	6	30.0
405	FAULT LAKE	11	T60N	R03W	116 42 00	48 33 45	2	7.0
406	FAWN LAKE	33	T21N	R16E	114 36 00	45 06 00	6	0.9
407	FAWN LAKE	29	T31N	R11E	115 06 30	45 59 45	5	4.0
408	FAWN LAKE	25	T42N	R07E	115 31 00	46 57 30	5	12.0
409	FEATHER LAKES (2)	34	T09N	R12E	115 02 45	44 04 00	8	3.7
410	FELT RES		T07N	R44E	111 17 00	43 54 00	9	20.0
411	FERNAN LAKE	17	T50N	R03W	116 43 30	47 40 30	3	355.0
412	FIDDLE LAKE	C7	T03N	R09E	115 25 30	43 36 30	8	2.5
413	FINGER LAKES (2)	02	T13N	R11E	115 09 15	44 29 30	6	9.0
414	FIRE LAKE	34	T33N	R08E	115 27 00	46 08 30	5	2.0
415	FISH CREEK RES	15	T01N	R22E	113 49 00	43 26 00	9	350.0
416	FISH LAKE	22	T13N	R13E	114 56 00	44 26 30	6	2.0

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
391	CLEARWATER	NFK CLEAR	ELIZABETH	CLEARWATER	CLE	ELIZABETH LAKE, ID
392	SNAKE R	BOISE R		ADA		EAGLE, IDAHO
393	SFK COEUR D'A	EFK BIG CK	EARLY CK	SHOSHONE	CDN	CALDER, IDAHO
394	SNAKE R	GRANITE CK		ADM-ADAMS	PAY	CUPRUM, ID
395	SALMON R	WIND RIVER		IDAHO	NEZ	HANOVER MTN, ID
396	SALMON R	WIND R		IDAHO	NEZ	MOUNT PALCMA, ID
397	SFK SALMON	SECESH R	ENOS CK	VALLEY	PAY	ENOS LKE, ID
398	KOOTENAI R	S CALLAHAN	LCST CK	BNR-BONNER	KOO	MT PEND OREILLE ID
399	PAYETTE R	SFK PAYETTE R	BENEDICT CK	BOISE	BOI	MOUNT EVERLY
400	SALMON R	LEMHI R	EVERSON CK	LEMHI	SAL	PATTERSON, ID
401	MFK SALMON	MARSH CK	KNAPP CK	CUSTER	CHA	LANGER PEAK, ID
402	SNAKE R	WEISER R	SAGE CK	WASHINGTON		MANN CREEK
403	MFK SALMON	LOON CK	CABIN CK	LEMHI	CHA	RAMEY HILL, ID
404	SALMON R	YELLOWBELLY		CUSTER	SAW	SNOWSIDE PEAK, ID
405	PEND O R R	PACK R	MCCORMIC	BOUNDARY	KAN	MOUNT ROTHAN
406	MFK SALMON	WILSON CK	DCE LAKE	LEMHI	SAL	HOODOO MEADOWS, ID
407	MFK CLEARWATER	SELWAY R	MINK CK	IDAHO	NEZ	RUNNING LAKE, ID
408	CLEARWATER	SAWTOOTH	GREENIE CK	SHOSHONE	STJ	MALLARD PEAK, ID
409	PAYETTE R	SFK PAYETTE R	GCAT CK	BOISE	ROI	WARBONNET PEAK
410	SNAKE R	HENRYS FCCK	TETON R	TETON		DRUMMOND, IDAHO
411	SPOKANE R	COEUR D'ALENE		KOOTENAI	CDN	LANE, ID
412	SFK BOISE R	TRINITY CK	RAINBOW CK	ELMORE	BOI	TRINITY MOUNTAIN
413	SALMON R	MFK SALMON	FALL CK	CUSTER	CHA	CAPE HORN LAKES
414	MFK CLEARWATER	LOCHSA R	FIRE CK	IDAHO	CLE	COOLWATER MTN, ID
415	MALAD R	LIT. WOOD R	FISH CK	BLAINE		FISH CREEK RES, ID
416	SALMON R	MFK SALMON	LCON CK	CUSTER	CHA	KNAPP LAKES, ID

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 17

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NC	ACREAGE
417	FISH LAKE	16	T18N	R02E	116 12 30	44 54 00	6	12.0
418	FISH LAKE	36	T20N	R08E	115 25 30	45 01 30	6	12.0
419	FISH LAKE	26	T24N	R09E	115 19 00	45 23 00	6	36.0
420	FISH LAKE	08	T26N	R07E	115 37 15	45 36 40	6	20.0
421	FISH LAKE	35	T35N	R11E	115 03 00	46 20 00	5	56.0
422	FISH LAKE	11	T40N	R12E	114 55 00	46 49 00	5	106.3
423	FISH LAKE	04	T43N	R04E	115 57 30	47 06 00	5	5.0
424	FISH POND	06	T11N	R43E	111 25 00	44 18 45	9	28.0
425	FISHPOLE LAKE	28	T04N	R22E	113 50 50	43 38 20	9	6.6
426	FIVEMILE EROSION CNL	13	T15S	R38E	111 58 00	42 07 00	11	4.1
427	FLEA LAKE	14	T33N	R09E	115 17 45	46 12 30	5	2.0
428	FLORENCE LAKE	28	T33N	R10E	115 12 45	46 11 00	5	40.0
429	FLOSSIE LAKE	30	T24N	R10E	115 16 30	45 23 30	6	15.0
430	FLY LAKE	20	T41N	R10E	115 13 30	46 53 00	5	2.0
431	FOGG LAKE	01	T17N	R04E	115 54 30	44 50 30	8	2.0
432	FORAGE LAKE	13	T42N	R09E	115 16 00	46 58 30	3	6.0
433	FOREMANS RES	03	T05S	R01E	116 20 00	43 01 30	8	154.0
434	FORSTER RES	24	T09S	R06W	117 00 00	42 37 30	8	30.0
435	FOSTER RES	12	T15N	R39E	111 50 30	42 07 30	11	146.0
436	FOURTH OF JULY LAKE	07	T08N	R16E	114 37 45	44 02 30	6	3.0
437	FRASER RES (E)	29	T03S	R05E	115 52 30	43 09 30	8	480.0
438	FREDDIE'S LAKE	11	T10S	R23E	113 44 15	42 34 15	9	34.0
439	FREEMAN LAKE	01	T56N	R06W	117 02 30	48 13 15	2	56.0
440	FRENCH CK. LAKES (2)	03	T21N	R03E	116 04 00	45 11 15	6	10.0
441	FRIDAY RIDGE LAKE	20	T35N	R14E	114 43 40	46 21 45	5	1.5
442	FRCG LAKE	15	T21N	R02E	116 11 45	45 09 30	6	4.5

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
417	SALMON R	LIT SALMON R	LITTLE CK	ADM-ADAMS	PAY	MEADOWS, ID
418	SALMON R	SFK SALMON R	PRCFILE CK	VALLEY	PAY	PROFILE GAP, ID
419	SNAKE R	SALMON R	TRCUT CK	IDAHO	PAY	SHEEPEATER MTN, ID
420	SALMON R	CROOKED C	LAKE CK	IDAHO	NEZ	SILVER SPUR RIDGE, ID
421	LOCHSA R	LAKE CK	FISH L CK	IDAHO	CLE	FISH LAKE, ID
422	CLEARWATER R	NFK CLEARWATER	LAKE CK	CLEARWATER	CLE	STRAIGHT PEAK MONT-ID
423	NFK CLEARWATER	L NFK CLEARWATE		SHOSHONE	STJ	WIDCW MTN, ID
424	SNAKE R	FENRYS FCRK		FREMONT	TAR	LAST CHANCE, ID
425	BIG LOST R	MFK ANTELCPE	LFK IRON BOG	CUSTER	CHA	MULDOON CANYON
426	BEAR R	FIVEMILE CK		FRANKLIN		WESTON, ID.
427	LOCHSA R	CLD MAN CK	CHIMNEY CK	IDAHO	CLE	CHIMNEY PEAK, ID
428	LOCHSA R	CLD MAN CK	CK N/N	IDAHO	CLE	FENN MTN, IDAHO
429	SALMON R	CHAMBERLAIN		IDAHO	PAY	SHEEPEATER MTN, ID
430	CLEARWATER R	NFK CLEARWATER	MEADOW CK	CLEARWATER	CLE	CHAMBERLAIN MTN, ID
431	NFK PAYETTE R	GOLD FCRK R	KENNALLY CK	VALLEY	PAY	PADDY FLAT, ID
432	COEUR D'ALENE	ST JOE R	FORAGE CK	SHOSHONE	STJ	BACON PEAK, ID
433	SNAKE R	CASTLE CK		OWYHEE		CASTLE BUTTE
434	OWYHEE R	NFK OWYHEE R	CHERRY CK	OWYHEE		CLIFFS, ID
435	BEAR R	GROUNDWATER		FRANKLIN	PAY	FRANKLIN, ID
436	SNAKE R	SALMON R	4TH OF JULY CK	CUSTER	SAW	WASHINGTON PEAK, ID
437	SNAKE R	CANYON CK		ELMORE		CINDER CONE BUTTE, ID
438	SNAKE R	CANALS		MINIDOKA		RUPERT SW, ID
439	PEND O R R	GROUNDWATER		BNR-BONNER	KAN	NEWPORT, WA-ID
440	SNAKE R	SALMON R	FRENCH CK	IDAHO	PAY	BLACK TIP, ID
441	SELWAY R	EFK MOOSE CK	CEDAR CK	IDAHO	CLE	CEDAR RIDGE
442	LIT SALMON R	HAZARD CK	HARD CK	IDAHO	PAY	HAZARD LAKE, ID

A-19

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 18

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	Basin_NO	ACREAGE
443	FROG LAKE	15	T20N	R04E	115 56 30	45 09 30	8	3.0
444	FROG LAKE	33	T35N	R16E	114 27 15	46 20 00	5	1.0
445	FROG LAKE	11	T43N	R10E	115 09 30	47 05 30	3	4.0
446	FROG LAKES (2)	26	T09N	R16E	114 32 30	44 04 45	6	15.0
447	GABES BATHTUB	25	T13N	R02E	116 10 00	44 26 00	8	1.0
448	GAMBLE LAKE	07	T56N	R01E	116 23 30	48 14 00	2	130.0
449	GARLAND LAKES (8)	26	T10N	R14E	114 47 30	44 10 00	6	8.0
450	GARNET LAKE	36	T36N	R16E	114 23 30	46 25 00	5	11.0
451	GARNET LAKE, LOWER	36	T36N	R16E	114 23 30	46 25 10	5	2.3
452	GAY LAKE	29	T23N	R02E	116 14 30	44 18 30	6	1.6
453	GEERTSON RES	18	T22N	R24E	113 39 15	45 14 15	6	6.9
454	GEM LAKE	33	T38N	R10E	115 13 00	45 36 00	5	2.0
455	GEM LAKE	13	T58N	R03E	116 06 00	48 22 30	2	4.0
456	GEM LAKE	14	T23N	R02W	116 33 15	45 20 15	7	15.0
457	GENTIAN LAKE	16	T21N	R16E	114 35 00	45 09 00	6	7.0
458	GEYSELMAN LAKE	27	T65N	R02E	116 10 30	48 57 45	1	1.0
459	GIBSON LAKES (2)	14	T16S	R41E	111 37 45	42 02 30	11	6.0
460	GLACIER LAKE	13	T07N	R11E	115 08 00	43 56 40	8	4.6
461	GLACIER LAKE	10	T21N	R16E	114 35 00	45 10 00	6	4.0
462	GLENDALE RES	08	T15S	R40E	111 47 30	42 08 00	11	230.0
463	GLIDDEN L, LOWER	18	T48N	R06E	115 43 45	47 31 00	3	6.0
464	GLIDDEN L, UPPER	08	T48N	R06E	115 43 00	43 31 00	3	5.0
465	GNAT LAKE	21	T42N	R07E	115 35 30	46 57 45	5	3.0
466	GOAT LAKE	36	T05N	R12E	115 00 30	43 43 50	8	6.0
467	GOAT LAKE	07	T05N	R20E	114 01 00	43 46 45	9	12.0
468	GCAT LAKE	26	T10N	R12E	115 01 00	44 10 30	6	43.0

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
443	PAYETTE R	NFK PAYETTE R	TRAIL CK	VALLEY	PAY	VICTOR PEAK, ID
444	LOCHSA R	WHITE SAND CK	BIG FLAT CK	IDAHO	CLE	BLODGETT MTN, ID-MON
445	COEUR DALENE	ST JOE R	SHERLOCK CK	SHOSHONE	STJ	ILLINOIS PEAK, MT-ID
446	SALMCN R	EFK SALMON R	L BOULDER CK	CUSTER	CHA	BOULDER CHAIN L, ID
447	PAYETTE R	SQUAW CK	3RD FK SQUAW CK	GEM	BOI	SMITH'S FERRY, ID
448	PEND O R R	PEND C R L		BNR-BONNER	KAN	PACKSADDLE MTN, ID
449	SALMON R	WARM SPRINGS CK	GARLAND CK	CUSTER	CHA	CASINO LAKES, ID
450	LOCHSA R	WHITE SAND CK	GARNET CK	IDAHO	CLE	WHITE SAND L MONT-ID
451	LOCHSA R	WHITE SAND CK	GARNET CK	IDAHO	CLE	WHITE SAND L MONT-ID
452	SNAKE R	SALMON R	LAKE CK	IDAHO	PAY	PATRICK BUTTE, ID
453	LEMHI R	DITCH	GEERTSON CK	LEMHI	SAL	GOLDSTONE MTN., ID-MONT
454	NFK CLEARWATER	KELLY CK	CAYUSE CK	CLEARWATER	CLE	LOOKOUT PEAK, ID
455	PEND O R R	CLARK FORK	LIGHTNING CK	BNR-BONNER	KAN	MT PEND OREILLE IDAH
456	SNAKE R	SHEEP CK		IDAHO	NEZ	HE DEVIL, ID-OR
457	PANTHER CK	CLEAR CK	MIRROW L	LEMHI	SAL	MT MCGUIRE
458	KOOTENAI R	MOYIE R		BOUNDARY	KAN	EASTPORT, ID
459	LIT BEAR R	LCGAN R	WHITE CANYON	FRANKLIN	CAR	MAPLETON, ID
460	SNAKE R	NFK BOISE P	JOHNSON CK	ELMORE	BOI	NAHNEKE MTN., ID
461	PANTHER CK	CLEAR CK	CRATER L	LEMHI	SAL	MT MCGUIRE
462	BEAR R	CUB R	WORM CK	FRANKLIN		RIVERDALE, ID
463	SPOKANE R	SFK CCEUR D'A	CANYON CK	SHOSHONE	CDN	COOPER GULCH, ID
464	SPOKANE R	SFK CCEUR D'A	CANYON CK	SHOSHONE	CDN	COOPER GULCH, ID
465	SNAKE R	L NFK CLEARWAT	SAWTOOTH CK	SHOSHONE	STJ	MALLARD PFAK, ID
466	SFK BOISE R	BEAR CK	GOAT CK	CAMAS	SAW	ROSS PEAK
467	BIG LCST R	EFK BIG LCST	STAR HOPE	CUSTER	CHA	STANDHOPE PEAK, IDAH
468	SALMCN R	VALLEY CK	GOAT CK	CUSTER	CHA	STANLEY LAKE, ID

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 19

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGTUDE	LATITUDE	BASIN_NO	ACREAGE
469	GOAT LAKE	16	T26N	R11E	115 05 15	45 36 00	6	3.0
470	GOAT LAKE	08	T16N	R22E	113 53 30	44 44 00	6	3.0
471	GOAT LAKE	24	T22N	R16E	114 32 00	45 13 15	6	25.0
472	GOAT LAKE	21	T23N	R02E	116 13 15	45 19 00	6	3.7
473	GOAT LAKE	06	T30N	R12E	115 00 00	45 58 00	5	1.0
474	GOAT LAKE	04	T38N	R13E	114 49 15	46 39 30	5	9.0
475	GOAT LAKES	30	T34N	R15E	114 37 30	46 15 00	5	61.0
476	GOLD LAKE	36	T42N	R09E	115 16 30	46 56 40	5	3.3
477	GOLD PAN LAKE	26	T27N	R13E	114 48 30	43 39 00	5	11.0
478	GOLDEN LAKE	28	T05N	R22E	113 51 30	43 44 00	9	1.6
479	GOLDEN LAKE	22	T12N	R42E	111 29 00	44 21 30	9	46.0
480	GOLDEN LAKE	23	T19N	R04E	115 56 00	44 58 00	8	17.0
481	GOLDEN TRCUT L	31	T21N	R17E	114 31 30	45 06 45	6	15.0
482	GOOSE CK RES, LGWER	25	T14S	R22E	113 56 00	42 11 00	9	1100.0
483	GOOSE HEAVEN LAKE	01	T46N	R03W	116 40 00	47 22 00	3	15.0
484	GOOSE LAKE, LCWER	22	T09N	R45E	111 07 30	44 05 45	9	5.7
485	GOOSE LAKE, UPPER	14	T09N	R45E	111 06 30	44 06 00	9	17.0
486	GOOSE LAKE	14	T20N	R02E	116 10 10	45 05 00	6	380.0
487	GOOSE LAKE	10	T41N	R12E	114 56 00	46 54 50	5	4.7
488	GOOSE LAKE	21	T09S	R19E	114 15 00	42 37 30	9	40.0
489	GOOSENECK LAKE	10	T21N	R16E	114 34 45	45 10 00	6	4.3
490	GORLEY CK		T21N	R21E	113 56 30	45 07 30	6	30.0
491	GOSPEL LAKE, EAST	34	T27N	R04E	115 56 30	45 38 15	5	5.0
492	GOSPEL LAKE, LOWER	34	T27N	R04E	115 57 00	45 38 15	5	12.0
493	GOSPEL LAKE, UPPER	34	T27N	R04E	115 57 15	45 38 00	5	14.0
494	GOVERNORS PUNCHCKWL	33	T07N	R15E	114 42 00	43 54 00	9	1.0

A-21

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
469	SALMON R	BARGAMIA CK	CLIFF CK	IDAHO	NEZ	SHEEP HILL, ID
470	SNAKE R	SALMON R	CCW CK	LEMHI	SAL	MAY, ID
471	SNAKE R	MFK SALMGN R	GOAT CK	LEMHI	SAL	MT MCGUIRE, ID
472	SNAKE R	SALMGN R	LAKE CK	IDAHO	PAY	PATRICK BUTTE, ID
473	MFK CLEARWATER	SELWAY R	GOAT CK	IDAHO	NEZ	RUNNING LAKE, ID
474	NFK CLEARWATER	KELLY CK	CAYUSE CK	CLEARWATER	CLE	RHODES PEAK, ID-MONT
475	SELWAY R	MOOSE CK	FORK MOOSE	IDAHO	NEZ	JEANETTE MTN, ID
476	SNAKE R	MFK CLEARWATER	MEADCW CK	SHOSHONE	CLE	BACON PEAK, ID
477	MFK CLEARWATER	SELWAY R	GOLD PAN	IDAHO	BIT	MAGRUDER MTN, ID
478	BIG LOST R	EFK BIG LCST R	STAR HOPE CK	CUSTER	CHA	MULDOON CANYON
479	SNAKE R	HENRYS FORK	LAKE CK	FREMONT	TAR	LAST CHANCE, ID
480	NFK PAYETTE	LAKE FK R	NFK LAKE FK	VALLEY	PAY	FITSUM SUMMIT, IDAHO
481	SALMON R	PANTHER C	BIG DEER CK	LEMHI	SAL	HOODOO MEADOWS, IDAH
482	SNAKE R	GOCSE CK		CASSIA		OAKLEY, ID
483	SPOKANE R	COEUR DALEN	ST JOE R	BENEWAH		ST MARIES, IDAHO
484	HENRYS FORK	WARM R	ROBINSON CK	FREMONT	TAR	WARM RIVER BUTTE
485	HENRYS FK	WARM R	RCBINSON CK	FREMONT	TAR	WARM RIVER BUTTE
486	SALMGN R	L SALMON	GOOSE CK	ADM-ADAMS	PAY	BRUNDAGE MTN, ID
487	CLEARWATER R	LAKE CK	GOOSE CK	BNR-BONNER		STRAIGHT PEAK, ID-MONT
488	SN PL ACUIFER	IRRIG CANAL		JEROME		EDEN, ID
489	SALMON R	PANTHER CK	CLEAR CK	LEMHI	SAL	MT MCGUIRE
490	SALMON R	GORLEY CK	GROUNDWAT	LEMHI	SAL	SALMON, ID.
491	SFK CLEARWA	JOHNS CK	WFK GOSPEL	IDAHO	NEZ	SAWYER RIDGE, IDAHO
492	SFK CLEARWA	JOHNS CK	WFK GOSPEL	IDAHO	NEZ	SAWYER RIDGE, IDAHO
493	SFK CLEARWA	JOHNS CK	WFK GOSPEL	IDAHO	NEZ	SAWYER RIDGE, IDAHO
494	MALAD R	BIG WOOD R	HRSE CK	BLAINE	SAW	HORTON PEAK, IDAHO



STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 20

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACREAGE
495	GRACE RES	11	T10S	R40E	111 43 45	42 35 30	11	50.0
496	GRANITE CK RES	22	T02N	R42E	111 29 45	43 28 45	10	5.8
497	GRANITE LAKE	02	T32N	R15E	114 33 30	46 08 00	5	4.0
498	GRANITE LAKE	03	T20N	R03E	116 04 30	45 06 00	8	195.0
499	GRANITE LAKE	11	T38N	R16E	114 24 45	46 39 30	5	7.0
500	GRANITE LAKE	27	T54N	R03W	116 42 30	48 01 30	2	20.0
501	GRASSMERE RES (2)	29	T12S	R05E	115 54 00	42 21 30	8	130.0
502	GRASSY MTN LAKES (2)	10	T21N	R02E	116 11 30	45 10 00	6	35.0
503	GRAVE PEAK LAKES (3)	08	T35N	R14E	114 43 30	46 23 20	5	9.2
504	GRAYS LAKE	09	T04S	R43E	111 25 00	43 05 00	9	27000.0
505	GREEN CREEK LAKE	22	T03N	R09E	115 22 30	43 35 00	8	2.0
506	GREEN ISLAND LAKE	08	T03N	R09E	115 25 00	43 36 50	8	2.0
507	GREEN LAKE	05	T04N	R22E	113 51 20	43 42 30	9	4.2
508	GRIMES LAKES (4)	07	T37N	R17E	114 22 30	46 34 15	5	3.2
509	GRONER RES	06	T12N	R01W	116 30 00	44 24 30	8	15.0
510	GROUSE CREEK LAKE	03	T12N	R21E	113 57 00	44 24 00	6	3.2
511	GROUSE LAKES (2)	06	T04N	R12E	115 04 30	43 43 00	8	8.0
512	GROUSE LAKE	12	T17N	R14E	114 41 00	44 50 00	6	5.0
513	GROUSE LAKE	03	T35N	R14E	114 41 30	46 24 00	5	7.0
514	GUFFY RES	27	T01S	R02W	116 33 30	43 18 00	8	9400.0
515	HAAS LAKE	03	T22N	R02W	116 33 30	45 16 45	6	3.8
516	HAGER LAKE	34	T61N	R05W	116 58 00	48 36 00	2	3.0
517	HAIT RES, LOWER	02	T17N	R02E	116 10 30	44 50 30	8	3.5
518	HAIT RES, UPPER	02	T17N	R02E	116 10 30	44 50 00	8	70.0
519	HALF ACRE LAKE	28	T26N	R06E	115 42 30	45 34 00	6	1.0
520	HALO LAKE	13	T42N	R09E	115 15 30	46 58 30	3	10.0

A-22

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
495	BEAR R			CARIBOU		SODA SPRINGS
496	SNAKE R	GRANITE CK		BNL-BONNEV		CONANT VALLEY
497	MFK CLEARW	SELWAY R	BEAR CK	IDAHO	NEZ	SADDLE MTN IDAHO
498	NFK PAYETTE	FISHER CK	EFK FISHER	VALLEY	PAY	GRANITE LAKE, ID
499	LOCHSA R	CROOKED F	BRUSHY CK	IDAHO		WEST FORK BUTTE, MONT
500	PEND O R R	HOOBOC CK	KELSO L	BNR-BONNER	KAN	CAREYWOOD, ID
501	BRUNEAU R	SHEEP CK	MARYS CK	OWYHEE		GRASSMERE RES, IDAHO
502	L SALMON R	HAZARD CK	HARD CK	IDAHO	PAY	HAZARD LAKE, IDAHO
503	LOCHSA R	WHITE SAND CK	BIG SAND CK	IDAHO	CLE	GRAVE PEAK, ID
504	SNAKE R	WILLOW CK	GRAYS L O	BNL-BONNEV		BEAR ISLAND, ID
505	SNAKE R	SFK BOISE	GREEN CK	ELMORE	BOI	FEATHERVILLE, ID
506	SFK BOISE R	TRINITY C	RAINBOW CK	ELMORE	BOI	TRINITY MOUNTAIN
507	BIG LCST R	EFK BIG LCST	STAR HOPE	CUSTER	CHA	MULDOON CANYON
508	LOCHSA R	BRUSHY FORK	SFK SPRUCE	IDAHO	CLE	RANGER PEAK, ID-MONT
509	WEISER R	CRANE CK	N CRANE CK	WASHINGTON		CRANE CREEK RES, ID
510	SALMON R	PAHSIMEPOI	GROUSE CK	CUSTER	CHA	DOUBLESRING, ID
511	MFK BOISE R	YUBA R	GROUSE CK	ELMORE	BOI	ROS PEAK, ID
512	SALMON R	MFK SALMO	GROUSE CK	LEMHI	CHA	SLEEPING DEER MTN. I
513	LOCHSA R	WHITE SAND	BIG SAND C	IDAHO	CLE	GRAVE PEAK, IDAHO
514	SNAKE R			CHYHEE		WALTERS BUTTE, ID
515	SALMON R	RAPID R	WFK RAPID	IDAHO	NEZ	HE DEVIL, ID-OR
516	PEND C R R	PRIEST R	KALISPELL CK	BNR-BONNER	KAN	PRIEST LAKE, SW
517	SNAKE R	PAYETTE R	NFK PAYETTE	VALLEY	PAY	NO BUSINESS MTN., ID
518	SNAKE R	PAYETTE R	NFK PAYETTE	VALLEY	PAY	NO BUSINESS MTN, ID
519	SNAKE R	SALMON R	SHEEP CK	IDAHO	NEZ	BUFFALO HUMP, IDAHO
520	COEUR DALENE	ST JOE R	BEAN CK	SHOSHONE	STJ	BACON CREEK

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 21

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACREAGE
521	HALVERSON LAKE	31	T01S	R01W	116 30 00	43 17 30	8	5.1
522	HAMILTON LAKES (7)	34	T26N	R13E	114 50 00	45 32 45	6	10.0
523	HANCOCK LAKE	15	T14N	R39E	111 51 15	44 32 00	9	5.0
524	HANSON LAKES (3)	12	T10N	R11E	115 07 00	44 12 30	6	26.0
525	HANSON LAKES (3)	23	T23W	R02W	116 32 00	45 18 45	6	7.2
526	HARBOR LAKE	16	T21N	R16E	114 35 30	45 08 30	6	19.0
527	HARD BUTTE LAKE	09	T22N	R02E	116 12 30	45 16 00	6	4.0
528	HARD CREEK LAKE	07	T21N	R03E	116 08 15	45 10 15	6	8.0
529	HARRISON LAKE	36	T62N	R03W	116 39 00	48 41 00	2	20.0
530	HAT CREEK LAKES (8)	22	T18N	R19E	114 12 30	44 52 30	6	25.0
531	HAUSER LAKE	07	T51N	R05W	117 01 00	47 46 00	3	604.0
532	HAWKINS RES	35	T10S	R35E	112 20 00	42 31 00	9	40.0
533	HAYDEN LAKE	16	T51N	R03W	116 42 30	47 46 00	3	4200.0
534	HAZARD LAKE, UPPER	07	T21N	R03E	116 08 00	45 10 30	6	40.0
535	HAZARD LAKE	31	T22N	R03E	116 08 30	45 12 15	6	64.0
536	HAZARD LAKE, BIG	30	T22N	R03E	116 08 30	45 13 00	6	142.0
537	HE DEVIL LAKE	22	T22N	R02W	116 33 45	45 19 30	7	4.3
538	HEART LAKE	11	T03N	R09E	115 25 15	43 36 00	8	5.0
539	HEART LAKE	33	T03N	R12E	115 02 30	43 32 30	8	12.0
540	HEART LAKE	13	T07N	R12E	114 59 45	43 56 30	8	13.0
541	HEART LAKE	10	T08N	R15E	114 40 30	44 01 30	6	5.0
542	HEART LAKE	29	T20N	R04E	115 59 45	45 02 35	8	1.0
543	HEART LAKE	21	T21N	R16E	114 35 45	45 08 00	6	5.6
544	HEART LAKE	33	T42N	R07E	115 35 00	46 56 30	5	33.0
545	HEATH LAKE	21	T56N	R02W	116 35 00	48 11 00	2	12.0
546	HEATHER CK LAKE	14	T36N	R16E	114 25 15	46 27 20	5	3.9

A-23

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
521	SNAKE R	GROUNDWATER		ADA		INITIAL POINT, ID
522	SALMCN R	SABE CK	HAMILTON C	IDAHO	BIT	STRIPE MTN, IDAHO
523	SN PL AQUIF	CAMAS CK	SPRING CK	CLARK	TAR	LOWER RED ROCK LAKE
524	SALMCN R	VALLEY CK	STANLEY L C	CUSTER	CHA	STANLEY LAKE, ID
525	SALMON R	RAPID R	HANSON CK	IDAHO	NEZ	HE DEVIL, ID-OR
526	MFK SALMON	WILSON CK	WILSON L	LEMHI	SAL	MT MCGUIRE
527	SALMON R	PARTRIDGE C		IDAHO	PAY	PATRICK BUTTE, ID
528	L SALMON R	HAZARD CK	HARD CK	IDAHO	PAY	HAZARD LAKE, IDAHO
529	PEND O R R	PACK R		BOUNDARY	KAN	THE WIGWAGS, ID
530	HAT CK	BIG HAT C	LITTLE HAT	LEMHI	SAL	TAYLOR MTN, IDAHO
531	SPOKANE R	GROUNDWATE		KOOTENAI		NEWMAN LAKE, WA-ID
532	PORTNEUF R	MARSH CK	HAWKINS CK	BANNOCK		HAWKINS, ID
533	SPOKANE R	GROUNDWATE		KOOTENAI	CDN	*HAYDEN LAKE, ID
534	L SALMON R	HAZARD CK	HAZARD L	IDAHO	PAY	HAZARD LAKE, IDAHO
535	L SALMON R	HAZARD CK		IDAHO	PAY	HAZARD, ID
536	L SALMON R	HAZARD CK		IDAHO	PAY	HAZARD, ID
537	SNAKE R	L GRANITE		IDAHO	NEZ	HE DEVIL, ID-OR
538	SFK BOISE R	TRINITY CK	RAINBOW CK	ELMORE	BOI	TRINITY MOUNTAIN
539	BOISE R	SFK BCISE R	DEADWOOD CK	CAMAS	SAW	JUMRC MTN, IDAHO
540	SNAKE R	MFK BCISE R	FLYTRIP CK	ELMORE	SAW	SNOWSIDE PEAK, ID
541	SALMON R	4TH OF JULY CK		CUSTER	SAW	WASHINGTON PEAK, ID
542	PAYETTE R	NFK PAYETTE R	BOX CK	VALLEY	PAY	BOX LAKE, IDA
543	SALMON R	MFK SALMON R	WILSON CK	LEMHI	SAL	MT MCGUIRE
544	CLEARWATER R	SAWTOOTH R	NORTHBCUND CK	SHOSHONE	STJ	MALLARD PEAK, ID
545	PEND O R R			BNR-BONNER		SAGLE, IDAHC
546	LOCHSA R	WHITE SANC	HEATHER CK	IDAHO	CLE	WHITE SAND LAKE, ID-MONT

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 22

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACREAGE
547	HEATHER CK LAKES (3)	27	T36N	R16E	114 28 00	46 26 30	5	6.1
548	HEATHER LAKE	25	T42N	R09E	115 16 00	46 57 15	5	6.0
549	HELL ROARING LAKE	15	T08N	R13E	114 56 00	44 01 30	6	57.0
550	HELLDIVER LAKE	19	T14N	R11E	115 10 15	44 32 30	6	11.0
551	HELLS CANYON RES	21	T22N	R03W	116 42 30	45 13 00	7	2500.0
552	HENRY'S LAKE	26	T15N	R43E	111 22 30	44 37 30	9	6578.0
553	HERD LAKE	23	T09N	R19E	114 10 00	44 05 15	6	12.0
554	HERMAN LAKE	27	T62N	R03E	116 04 00	48 41 30	1	32.0
555	HERO LAKE	21	T42N	R07E	115 35 30	46 58 00	5	5.0
556	HERRICK RES	16	T12N	R04E	115 59 00	44 22 30	8	42.0
557	HIDDEN CK RIDGE L, NO	22	T35N	R16E	114 27 00	46 21 40	5	1.4
558	HIDDEN CK RIDGE L, NC	22	T35N	R16E	114 26 45	46 21 30	5	0.5
559	HIDDEN LAKE	25	T08N	R12E	115 20 00	44 00 00	8	40.3
560	HIDDEN LAKE RES	02	T10N	R02E	116 11 00	44 14 00	8	28.0
561	HIDDEN LAKE	12	T11N	R11E	115 07 00	44 17 45	6	3.0
562	HIDDEN LAKE	21	T13N	R03E	116 06 45	44 26 30	8	8.7
563	HIDDEN LAKE	20	T16S	R42E	111 34 00	42 01 30	1	1.0
564	HIDDEN LAKE	24	T21N	R02E	116 09 00	45 09 00	6	12.0
565	HIDDEN LAKE	25	T25N	R14E	114 40 15	45 28 30	5	13.0
566	HIDDEN LAKE	14	T26N	R05E	115 48 30	45 35 00	6	10.0
567	HIDDEN LAKE	30	T35N	R16E	114 31 00	46 21 00	5	105.0
568	HIDDEN LAKE, LOWER	24	T35N	R15E	114 31 00	46 21 30	5	6.9
569	HIDDEN LAKE, UPPER	36	T35N	R15E	114 31 30	46 20 10	5	7.5
570	HIDDEN LAKE	31	T47N	R03W	116 45 30	47 22 30	3	130.0
571	HIDDEN LAKE	20	T64N	R03W	116 45 15	48 53 00	1	45.0
572	HIDDEN LAKE RES	27	T11N	R41E	111 36 00	44 15 30	9	1.0

A-24

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
547	LOCHSA R	WHITE SAND	HEATHER CK	IDAHO	CLE	WHITE SAND LAKE, ID-MONT
548	NFK CLEARW	MEADGW CK	HEATHER CK	SHOSHONE	STJ	BACON PEAK, ID
549	SALMON R	HELL ROARING		CUSTER	SAW	MOUNTCRAMER, ID
550	MFK SALMON	RAPID R	FLGAT CK	CUSTER	CHA	GREYHOUND RIDGE, IDA
551	SNAKE R			ADM-ADAMS	PAY	CUPRUM
552	SNAKE R	HENRYS FORK		FREMONT	TAR	*TARGHEE PEAK, ID-MONT
553	EFK SALMON	HERD CK	LAKE CK	CUSTER		HERD LAKE, IDAHO
554	KOOTENAI R	CK N/N		BOUNDARY	KOO	CURLEY CREEK, ID-MT
555	SNAKE R	CLEARWATER R	SAWTOOTH R	SHOSHONE	STJ	MALLARD PEAK, ID
556	NFK PAYETTE	CLEAR CK	SKUNK CK	VALLEY		BOILING SPRINGS
557	LOCHSA R	WHITE SAND C	BIG FLAT CK	IDAHO	CLE	BLODGETT MTN., ID-MONT
558	LOCHSA R	WHITE SAND C	BIG FLAT CK	IDAHO	CLE	BLODGETT MTN., ID-MONT
559	SNAKE R	PAYETTE R	SFK PAYETTE	BOISE	BOI	SNOWSIDE PEAK, ID
560	PAYETTE R	SQUAW CK	LIT SQUAW	VALLEY		BANKS, ID
561	SALMON R	VALLEY CK	MEADOW CK	CUSTER	CHA	ELK MEADOW, ID
562	PAYETTE R	NFK PAYETTE R	MOORES CK	VALLEY	BOI	SMITH'S FERRY
563	LIT BEAR R	LOGAN R	BEAVER CK	FRANKLIN	CAR	EGAN BASIN, ID
564	L SALMON R	HAZARD CK	HARD CK	ICAOH	PAY	HAZARD LAKE, ID
565	MFK CLEARWA	SELWAY R	HIDDEN CK	IDAHO	BIT	SQUARE TOP, ID
566	SALMON R	SHEEP CK	LCNG MEADOW	IDAHO	NEZ	MARBLE BUTTE
567	LOCHSA R	WHITE SAND	BIG SAND CK	IDAHO	CLE	JEANETTE MTN, ID
568	LOCHSA	WHITE SAND	BIG SAND CK	IDAHO	CLE	JEANETTE MTN, ID
569	LOCHSA	WHITE SAND	BIG SAND CK	IDAHO	CLE	JEANETTE MTN, ID
570	COEUR DALENE	ST JCE R	CHATCOLET	BENEWAH		PLUMMER, ID
571	KOOTENAI	SMITH CK	COW CK	BOUNDARY	KAN	GRASS MTN, ID
572	SNAKE R	HENRYS FORK	SAND CK	FREMONT	TAR	BISHOP MTN, ID

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 23

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACREAGE
573	HIDDEN PEAK LAKE, NO	16	T35N	R16E	114 28 10	46 22 50	5	4.6
574	HIDEWAY LAKE	11	T03N	R09E	115 24 00	43 35 15	8	2.4
575	HIGHLINE LAKES (2)	18	T31N	R11E	115 07 30	46 01 45	5	5.0
576	HINDMAN LAKE	10	T12N	R13E	114 55 00	44 23 00	6	8.0
577	HINTON RES	12	T06S	R03E	116 02 30	42 54 45	8	3.0
578	HJORT LAKE	28	T33N	R10E	115 12 30	46 11 00	5	2.0
579	HOLLENBEAK	01	T17N	R03E	116 02 00	44 50 30	8	19.9
580	HOME LAKE	08	T06N	R02E	116 15 00	43 52 15	8	3.0
581	HOMER WELLS RES	24	T16S	R03W	116 37 30	42 01 00	8	37.0
582	HONEYMOON LAKE	32	T15N	R09E	115 23 00	44 35 00	6	4.2
583	HCOODO LAKE	25	T10N	R15E	114 38 30	44 10 00	6	3.0
584	HCOODO LAKE	01	T34N	R14E	114 39 00	46 19 00	5	4.0
585	HCOODO LAKE	03	T54N	R04W	116 49 00	48 03 00	2	93.0
586	HORNET RES, LOWER (E)	20	T17N	R03W	116 43 30	44 47 00	8	16.0
587	HORNET RES, UPPER (E)	20	T17N	R03W	116 44 00	44 47 00	8	32.0
588	HORSE BASIN RES EAST	24	T16S	R02W	116 31 00	42 01 00	8	4.0
589	HORSE BASIN RES WEST	35	T15S	R03W	116 37 37	42 04 00	8	5.0
590	HORSE HEAVEN LAKE	24	T23N	R02W	116 33 30	45 17 15	6	8.1
591	HORSE LAKE	16	T16S	R42E	111 33 00	42 02 30	11	1.0
592	HORSE LAKES (2)	01	T07S	R37E	112 04 45	42 50 15	9	1.0
593	HORSE PASTURE BAS. (2)	10	T21N	R02W	116 34 45	45 11 00	7	5.0
594	HORSESHOE BEND POND	27	T07N	R02E	116 11 30	43 06 30	8	2.0
595	HORSESHOE LAKE	26	T10N	R45E	111 05 30	44 09 30	9	35.6
596	HORSESHOE LAKE	15	T13N	R13E	114 56 30	44 27 00	6	15.0
597	HORSESHOE LAKE	04	T25N	R06E	115 43 00	45 32 00	6	5.0
598	HORSESHOE LAKE	15	T37N	R11E	115 04 00	46 33 00	5	3.0

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
573	LOCHSA	WHITE SAND	BIG FLAT CK	IDAHO	CLE	WHITE SAND LAKE, ID-MONT
574	SFK BOISE	TRINITY CK	PARKS CK	ELMORE	BOI	TRINITY MOUNTAIN
575	MFK CLEARWA	SELWAY R	MINK CK	IDAHO	NEZ	FOG MTN, ID
576	SALMON R	YANKEE FK	WFK YANKEE	CUSTER	CHA	KNAPP LAKES, ID
577	SNAKE R			OWYHEE		GRANDVIEW, ID
578	MFK CLEARWATER	LOCHSA R	OLD MAN CK	IDAHO	CLE	FENN MTN, IDAHO
579	NFK PAYETTE	BOULDER CK	COLD CK	VALLEY		LAKE FORK
580	PAYETTE R	ROBBS CK		BOISE		CARTWRIGHT CANYON ID
581	SNAKE R	SFK OWYHEE		OWYHEE		BULL CAMP BUTTE ID
582	MFK SALMON	SULPHUR C	HONEYMOON C	VALLEY	BOI	CHINOOK MT
583	SALMON R	SLATE CK		CUSTER	CHA	ROBINSON BAR, IDA
584	LOCHSA	WHITE SAND	RIG SAND CK	IDAHO	CLE	CEDAR RIDGE
585	PEND G R R	HCOODO CK		RNR-BUNNER	KAN	EDGEMERE, ID
586	SNAKE R	WEISER R	HORNET CK	WASHINGTON		HORNET, ID
587	SNAKE R	WEISER R	HORNET CK	WASHINGTON		HORNET, ID
588	SNAKE R	SFK OWYHEE		OWYHEE		FOUR CORNERS, IDAHO
589	SNAKE R	SFK OWYHEE		OWYHEE		BULL CAMP BUTTE ID
590	SALMON R	RAPID R	WFK RAPID R	IDAHO	NEZ	HE DEVIL, ID-OR
591	LIT BEAR R	LOGAN R	BEAVER CK	FRANKLIN	CAP	EGAN BASIN, IDAHO
592	PORTNEUF R	TOPONCE CK	SFK TOPONCE	CARIBOU	CAR	BEAR CAMP GULCH, IDA
593	SNAKE R	DEEP CK		ADM-ADAMS	PAY	CUPRUM, ID
594	SNAKE R	PAYETTE R		BOISE		HORSESHOE BEND
595	HENRYS FORK	WARM R	ROBINSON CK	FREMONT	TAR	WARM RIVER BUTTE
596	SALMON R	MFK SALMON	LOON CK	CUSTER	CHA	KNAPP LAKES, IDAHO
597	SALMON R	BULL CK	BRANDON CK	IDAHO	NEZ	BUFFALO HUMP ID
598	KELLY CK	CAYUSE CK	GRAVEY CK	IDAHO	CLE	HORSESHOE LAKE, IDAH

A-25

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 <sup>24</sup>

GBS	NAME	SECTION	TOWNSHIP	RANGE	LONGTUDE	LATITUDE	BASIN_NO	ACREAGE
599	HORSETHIEF RES	36	T14N	R04E	115 55 00	44 31 00	8	275.0
600	HOT SPRINGS CK RES	34	T03S	R08E	115 30 00	43 07 30	8	30.0
601	HOT SULPHUR LAKE	29	T04S	R13E	115 56 00	43 02 50	9	5.0
602	HOWARD RES	08	T01N	R21E	113 58 00	43 26 15	9	33.0
603	HOWELL NO. 1	17	T09N	R43E	111 24 15	44 06 30	9	5.0
604	HOWELL NO. 2	20	T09N	R43E	111 25 00	44 06 00	9	6.0
605	HUBBARD RES	17	T02N	R01E	116 21 15	43 31 00	8	17.0
606	HUCKBERRY RES	33	T09S	R03W	116 41 30	42 36 30	8	13.0
607	HULET RES	11	T04S	R02W	116 32 30	43 05 30	8	126.0
608	HULL CK RES	24	T25N	R20E	114 02 00	45 29 00	6	7.0
609	HUM LAKE	13	T20N	R04E	115 54 30	45 04 00	6	15.0
610	HUMP LAKE	02	T26N	R06E	115 41 30	45 37 00	6	15.0
611	HUNGRY LAKE	31	T35N	R14E	114 45 30	46 19 30	5	25.0
612	HUNT LAKE	03	T60N	R03W	116 42 30	48 34 45	2	15.0
613	HURST LAKE	17	T25N	RC6E	115 44 00	45 30 50	6	4.0
614	ICE LAKE	25	T40N	R09E	115 17 45	46 47 00	5	1.0
615	ICEHOUSE CK RES	15	T13N	R41E	111 36 00	44 27 15	9	64.0
616	IDAHO DIVERSION	36	T04N	R37E	116 03 30	43 38 00	9	100.0
617	IDAHO FALLS RES, LOW	25	T02N	R37E	112 03 00	43 28 30	9	100.0
618	IDLER LAKES (2)	07	T18N	R05E	115 52 45	44 55 00	8	7.0
619	IMOGENE LAKE	28	T08N	R13E	114 57 00	43 59 45	6	75.0
620	INDEPENDENCE LAKES(4)	16	T14S	R24E	113 40 00	42 12 00	9	25.0
621	INDIAN CK RES	30	T01N	R04E	116 01 15	43 23 30	8	42.8
622	INDIAN LAKE (E)	02	T04S	R27E	113 15 30	43 06 15	9	2.9
623	INDIAN LAKE	32	T09N	R46E	111 03 00	44 03 45	9	207.1
624	INDIAN LAKE	03	T34N	R14E	114 42 30	46 08 30	5	20.0

GBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
599	NFK PAYETTE	BIG CK	HORSETHIEF	VALLEY		GOLD FORK
600	SNAKE R	BENNETT CK	HOT SPRINGS	ELMORE		BENNETT MTN, ID
601	SNAKE R	CLCVER CK		GOODING		DAVIS MTN, IDAHO
602	MALAD R	LIT WOOD R	LIT FISH CK	BLAINE		LAKE HILLS, IDAHO
603	SNAKE R	HENRYS FORK	STRONG CK	FREMONT		ASHTON, ID
604	SNAKE R	HENRYS FORK	STRONG CK	FREMONT		ASHTON, ID
605	N YORK CANAL			ADA		CLOVERDALE, ID
606	OWYHEE R	DEEP CK	NIP & TUCK CK	OWYHEE		SLACK MTN, ID
607	SNAKE R	SINKER CK		OWYHEE		SILVER CITY
608	SNAKE R	NFK SALMON	HULL CK	LEMHI	SAL	ULYSSES MTN
609	SFK SALMON	SECESH R	LICK CK	VALLEY	PAY	BOX LAKE, ID
610	SALMON R	CROCKED CK	LAKE CK	IDAHO	NEZ	BUFFALO HUMP, ID
611	LOCHSA R	WARM SPRS CK		IDAHO	CLE	HUNGRY ROCK, ID
612	PEND O R R	PRIEST R	NFK HUNT	BOUNDARY	KAN	MOUNT ROTHAN
613	SALMON R	BULL CK	HURST CK	IDAHO	NEZ	BUFFALO HUMP ID
614	NFK CLEARWATER	ELIZABETH CK	ICEHOUSE C	CLEARWATER	CLE	ELIZABETH LAKE, IDA
615	SNAKE R	HENRYS FORK		FREMONT		ICEHOUSE CR
616	SNAKE R			JEFFERSON		LEWISVILLE, ID
617	SNAKE R			BNL-BONNEV		IDAHO FALLS SOUTH
618	NFK PAYETTE	EFK LAKE FK	IDLER CK	VALLEY	PAY	FITSUM SUMMIT, IDAHO
619	SALMON R	YELLOWBELLY	GROUNDWATER	CUSTER	SAW	SNOWSIDE PEAK, ID
620	RAFT R	CASSIA CK		CASSIA	SAW	CACHE PEAK, ID
621	WALDROGEL C	MCRA CANA	INDIAN CK	ADA		INDIAN CREEK RES, ID
622	SN PL AQUIF			BLAINE		MULE BUTTE, ID
623	HENRY'S FORK	FALLS R	CONANT CK	FREMONT	TAR	WARM RIVER BUTTE, I-W
624	MFK CLEARWATER	SELWAY R	PETTIBONE	IDAHO	NEZ	WAHOO PEAK, ID

A-26

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 <sup>25</sup>

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACREAGE
625	INDIAN P.O. LAKES (2)	20	T37N	R12E	114 59 00	46 32 15	5	10.0
626	INDIGO LAKE	35	T26N	R04E	115 56 00	45 33 00	6	3.0
627	INGEBORG, LAKE	05	T07N	R12E	115 02 30	44 57 00	8	24.0
628	IRIS LAKE	26	T14N	R10E	115 12 00	44 31 30	6	5.0
629	IRON BOG LAKE		T04N	R22E	113 50 30	43 39 00	9	6.4
630	IRCN LAKE	11	T18N	R19E	114 12 00	44 54 00	6	20.0
631	ISAAC LAKE	23	T34N	R13E	114 48 00	46 16 00	5	15.0
632	ISLAND LAKE	13	T07N	R11E	115 08 30	43 57 30	8	3.0
633	ISLAND LAKE	20	T09N	R16E	114 35 30	44 05 30	6	8.0
634	ISLAND LAKE	11	T13N	R11E	115 08 45	44 28 15	6	12.4
635	ISLAND PARK RES	32	T13N	R43E	111 30 00	44 24 00	9	7794.0
636	JACK LAKE	12	T39N	R08E	115 23 45	46 44 15	5	4.0
637	JACKS CREEK RES	30	T11S	R03E	116 08 00	42 26 30	8	18.0
638	JOHNSON LAKE	14	T07N	R11E	115 08 45	43 56 50	8	5.1
639	JOHNSON RES	21	T09S	R02W	116 34 15	42 32 20	8	5.7
640	JEANETTE CK LAKES (3)	09	T34N	R15E	114 35 30	46 18 00	5	4.3
641	JEANETTE LAKE	10	T34N	R15E	114 34 30	46 18 15	5	6.0
642	JEANETTE MTN. LAKE	14	T34N	R15E	114 33 00	46 17 15	5	1.7
643	JEFFERSON RES (E)	09	T07N	R34E	112 27 30	43 56 45	9	5.0
644	JEMIMA K RES	05	T14N	R04E	116 00 15	44 34 30	8	65.0
645	JENKINS CK RES	19	T12N	R05W	116 59 30	44 22 00	8	9.0
646	JENNIE LAKE	21	T08N	R09E	115 24 00	44 01 45	8	4.0
647	JENSEN LAKE	22	T01S	R02W	116 33 00	43 19 30	8	46.0
648	JEWEL LAKE	04	T55N	R03W	116 42 45	48 08 30	2	34.0
649	JIMMY SMITH LAKE	25	T10N	R17E	114 23 30	44 10 00	6	65.0
650	JOE LAKE	19	T64N	R03W	116 46 30	48 53 30	1	3.0

UBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
625	MFK CLEARWATER	LOCHSA R	POSTOFFICE CK	IDAHO	CLE	INDIAN POSTOFFICE, I
626	SNAKE R	SALMON R	WIND R	IDAHO	NEZ	HANOVER MTN, IDAHO
627	SNAKE R	BOISE R	MFK BOISE	ELMORE	BOI	MOUNT EVERLY, ID
628	SALMON R	MFK SALMON R	FALL CK	CUSTER	CHA	GREYHOUND RIDGE, IDA
629	BIG LCST R	MFK ANTELOPE	LFK IRGN BOG	CUSTER	CHA	MULDOON CANYON
630	SNAKE R	SALMON R	IRON CK	LEMHI	SAL	TAYLOR MTN, IDAHO
631	SELWAY R	NFK MCCSE	ISAAC CK	IDAHO	NEZ	HUNGRY ROCK, IDAHO
632	BOISE R	MFK BOISE R	JOHNSON CK	ELMORE	BOI	MOUNT EVERLY, ID
633	SALMON R	EFK SALMON	BIG BOULDER CK	CUSTER	CHA	BOULDER CHAIN L, IDA
634	MFK SALMON	MARSH CK	BEAVER CK	CUSTER	CHA	CAPE HORN LAKES
635	HENRYS FORK			FREMONT	TAR	*ICEHOUSE CRK, ID
636	CLEARWATER	NFK CLEARW	ROCK CK	CLEARWATER	CLE	POT MTN - IDA
637	SNAKE R	BRUNEAU R	BIG JACK CK	OWYHEE		TURNER TABLE, ID
638	SNAKE R	NFK BOISE R	JOHNSON CK	ELMORE	BOI	NAHNEKE MTN., ID
639	OWYHEE R	DEEP CK	POLE CK	OWYHEE		WAGON BOX BASIN, ID
640	SELWAY R	EFK MOOSE CK	JEANETTE CK	IDAHO	CLE	JEANETTE MTN, IDAHO
641	LOCHSA R	WHITE SAND CK	BIG SAND CK	IDAHO	CLE	JEANETTE MTN, IDAHO
642	LOCHSA R	WHITE SAND CK	BIG SAND CK	IDAHO	CLE	JEANETTE MTN, IDAHO
643	SN PL AQUIFER	JEFFERSON CANAL		JEFFERSON		MUD LAKE NW
644	NFK PAYETTE	BEAVER CK	WFK BEAVER CK	VALLEY	BOI	CASCADE, ID.
645	SNAKE R	JENKINS CK		WASHINGTON		HANN CREEK
646	NFK BOISE R	BEAR R	BEAR CK	BOISE	BOI	JACKSON PEAK, ID
647	SNAKE R	IRRIG CANALS	CFFSTREAM RES	CANYON		WALTERS BUTTE, ID
648	PEND C R R			BNR-BONNER		MORTON, ID
649	SALMON R	EFK SALMON R	BIG LAKE CK	CUSTER	CHA	POTAMAN PEAK, ID
650	SMITH CK	CCW CK	BEAVER CK	BOUNDARY	KAN	GRASS MTN, IDAHO

A-27

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 26

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGTUDE	LATITUDE	BASIN_NO	ACREAGE
651	JOHN HOFFMAN RES	02	T03S	R07E	115 35 00	43 11 30	8	3.0
652	JOHN LAKE	29	T23N	R02E	116 14 00	45 18 10	6	7.7
653	JOHNSON RES	20	T15S	R40E	111 48 00	42 06 30	11	50.0
654	JOHNSTON LAKES (6)	05	T04S	R04W	116 50 00	43 06 00	8	4.0
655	JOSEPHINE LAKE	28	T22N	R04E	115 58 00	45 13 30	6	13.0
656	JOSEPHUS LAKE	17	T14N	R11E	115 08 30	44 33 00	6	8.0
657	JUG CREEK RES, LOWER	32	T18N	R04E	116 00 00	44 51 30	8	6.5
658	JUG CREEK RES, UPPER	05	T17N	R04E	116 00 00	44 51 30	8	22.9
659	JUGHANDLE ESTATES	07	T17N	R04E	116 01 00	44 49 30	8	3.0
660	JUNCTION LAKE	36	T39N	R09E	115 16 00	46 40 40	5	2.0
661	JUNGLE LAKE	03	T21N	R05E	115 49 30	45 06 30	6	10.0
662	JUNIPER BASIN RES	09	T16S	R01W	116 27 30	42 02 30	8	242.0
663	JUNIPER BASIN, LITTLE	25	T15S	R02W	116 31 00	42 05 00	8	3.0
664	JUSSILA-BOW	12	T17N	R03E	116 02 30	44 49 30	8	12.0
665	KANE LAKE	01	T05N	R19E	114 09 45	43 47 00	9	15.0
666	KELLY LAKE	23	T11N	R11E	115 09 15	44 17 00	6	3.0
667	KELLY LAKES (4)	26	T27N	R06E	115 40 00	45 38 30	6	8.0
668	KELLY RES	25	T01S	R15E	114 37 00	43 18 30	9	96.0
669	KELSO LAKE	21	T54N	R03W	116 42 30	48 00 30	2	54.0
670	KENNALLY LAKES (5)	05	T17N	R05E	115 52 45	44 50 00	8	15.0
671	KENNETH LAKE	29	T22N	R03E	116 07 15	45 13 00	6	1.0
672	KENT LAKE	13	T62N	R03E	116 40 00	48 43 30	1	13.0
673	KEOKEE LAKE	31	T59N	R02W	116 39 45	48 25 15	2	7.0
674	KERR LAKE	12	T61N	R05W	116 56 00	48 38 45	2	8.0
675	KERR LAKE	14	T64N	R01W	116 26 00	48 54 00	1	21.0
676	KETTLE LAKE	20	T33N	R10E	115 14 00	46 11 30	5	17.0

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
651	IRRIGATION	MTN HOME RE	RATTLESNAKE CK	ELMORE		MTN HOME IDA
652	SALMON R	LAKE CK		IDAHO	PAY	PATRICK BUTTE, ID
653	BEAR R	CUB R		FRANKLIN		FRANKLIN, ID
654	SNAKE R	SUCCGR CK		CHYHEE		ROOSTER COMB PEAK, I
655	SFK SALMON R	SECESH R	SUMMIT CK	IDAHO	PAY	VICTOR PEAK, ID
656	MFK SALMON R	RAPID R	FLOAT CK	CUSTER	CHA	GREYHOUND RIDGE, IDA
657	NFK PAYETTE	CASCADE RES	BOULDER CK	VALLEY		LAKE FORK, IDAHO
658	NFK PAYETTE	CASCADE RES	BOULDER CK	VALLEY		LAKE FORK, IDAHO
659	PAYETTE R	NFK PAYETTE	BOULDER CK	VALLEY		LAKE FORK, ID
660	NFK CLEARWATER	KELLY CK	JUNCTION CK	CLEARWATER	CLE	JUNCTION MTN, IDAHO
661	SFK SALMON	SECESH R	JUNGLE CK	VALLEY	PAY	ENDS LAKE, IDAHO
662	OWYHEE CK	JUNIPER CK		OWYHEE		JUNIPER BASIN, ID
663	OWYHEE R	JUNIPER CK		OWYHEE		FOUR CORNERS, IDAHO
664	PAYETTE R	BOULDER CK	WILHELM CK	VALLEY		LAKE FORK
665	BIG LOST R	NFK BIG LO	KANE CK	CUSTER	CHA	PHI KAPPA MTN, ID
666	SALMON R	VALLEY CK	TRAP CK	CUSTER	CHA	BANNER SUMMIT, ID
667	CROOKED CK	LAKE CK	KELLY CK	IDAHO	NEZ	NORTH POLE, IDAHO
668	SNAKE R	BIG WOOD R	CAMAS CK	CAMAS		BLAINE, ID
669	PEND C R R	HCOCCC CK		BNR-BONNER	KAN	CAREYHOOK, ID
670	NFK PAYETTE R	GOLDEN FK R	NFK KENNALL	VALLEY	PAY	PADDY FLAT, ID
671	SALMON R	FRENCH CK	LIT FRENCH CK	IDAHO	PAY	BLACK TIP, IDAHO
672	PEND O R R	PRIEST R	LION CK	BOUNDARY	KAN	THE WIGWAMS, ID
673	PACK R	COLBURN CK	BERRY CK	BNR-BONNER	KAN	MOUNT CASEY, ID
674	PEND O R R	PRIEST R	GRANITE CK	BNR-BONNER	KAN	PRIEST LAKE NW - IDA
675	KCGTENAI R			BOUNDARY		COPELAND, ID
676	NFK CLEARWATER	LOCHSA R	OLD MAN CK	IDAHO	CLE	FENN MTN, IDAHO

A-28

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 27

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACREAGE
677	KID LAKE	27	T40N	R13E	114 48 30	46 47 00	5	40.0
678	KIDNEY LAKE	26	T14N	R12E	114 58 00	44 31 30	6	3.0
679	KIDNEY LAKE	29	T35N	R14E	114 43 30	46 21 00	5	11.0
680	KIDNEY LAKE, LOWER	21	T35N	R14E	114 43 20	46 21 20	5	1.6
681	KILLARNEY LAKE	10	T48N	R02W	116 34 00	47 31 30	3	508.0
682	KILROY LAKES	17	T55N	R01E	116 22 30	48 07 00	2	5.0
683	KIMBERLY LAKES (2)	20	T24N	R05E	115 51 40	45 24 15	6	4.0
684	KIRBY(ATLANTA PWR ST)	04	T05N	R11E	116 09 30	43 48 15	8	2.0
685	KNAPP LAKES (15)	27	T13N	R13E	114 56 00	44 25 30	6	55.0
686	KNCB LAKE, LOWER	35	T27S	R04E	115 55 00	45 38 00	5	5.0
687	KNOB LAKE, MIDDLE	01	T26S	R04E	115 55 03	45 37 30	5	6.0
688	KNCB LAKE, UPPER	02	T26S	R04E	115 55 00	45 37 00	5	1.0
689	KOOSKOOSKIA MDS LAKE	15	T35N	R14E	114 41 03	46 22 40	5	2.6
690	KOOSKOOSKIA MDS RD PD	11	T35N	R14E	114 39 50	46 22 50	5	1.1
691	LAMBERTSON RES	02	T03S	R07E	115 35 00	43 12 00	8	1.0
692	LAMBERTSON LAKE	04	T54N	R03W	116 41 00	48 00 15	2	20.0
693	LAMONT RES	20	T15S	R40E	111 48 30	42 06 30	11	92.0
694	LAPWAI L(WINCHESTER)	06	T33N	R02W	116 37 15	46 14 00	5	94.0
695	LANGER LAKE	12	T13N	R11E	115 07 45	44 28 30	6	11.8
696	LARKINS LAKE	29	T42N	R07E	115 36 36	45 57 00	5	11.0
697	LAVA BUTTE LAKES (3)	05	T23N	R03E	116 07 30	45 16 15	6	14.0
698	LAVA LAKE	28	T01N	R23E	113 43 00	43 23 30	9	54.0
699	LEE LAKE	11	T59N	R04W	116 37 30	48 28 30	2	3.0
700	LEGEND LAKE	34	T33N	R10E	115 11 00	46 09 00	5	2.0
701	LEGGIT LAKE	15	T05N	R12E	115 02 30	43 46 30	8	17.5
702	LEMHI LAKE	29	T24N	R09E	115 22 15	45 23 15	6	1.0

A-29

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
677	NFK CLEARWATER	MFK KELLY	KID LAKE CK	CLEARWATER	CLE	STRAIGHT PEAK MONT-I
678	MFK SALMON	RAPID R	BERNARD CK	CUSTER	CHA	PINYON PEAK, ID
679	SELWAY R	EFK MCCSE CK	CEDAR CK	IDAHO	CLE	CEDAR RIDGE
680	SELWAY R	EFK MOOSE CK	CEDAR CK	IDAHO	CLE	CEDAR RIDGE
681	SPOKANE R	CCEUR DALEN		KOOTENAI	CDN	LANE, ID
682	PEND O R R	PEND C R L		BNR-BONNER	KAN	PACKSADDLE MTN
683	SNAKE R	SALMON R	BEAR CK	IDAHO		BURGDORF, ID
684	SNAKE R	MFK BCISE		ELMORE	BOI	ATLANTA WEST
685	MFK SALMON	MARSH CK	KNAPP CK	CUSTER	CHA	KNAPP LAKES
686	SFK CLEARWA	JOHNS CK	WFK GOSPEL	IDAHO	NEZ	SAWYER RIDGE, IDAHO
687	SFK CLEARWA	JOHNS CK	WFK GOSPEL	IDAHO	NEZ	SAWYER RIDGE, IDAHO
688	SFK CLEARWA	JOHNS CK	WFK GOSPEL	IDAHO	NEZ	HANOVER MTN, IDAHO
689	SELWAY R	EFK MOOSE CK	CEDAR CK	IDAHO	CLE	GRAVE PEAK, ID
690	LOCHSA R	WHITE SAND	BIG SAND C	IDAHO	CLE	GRAVE PEAK, ID
691	IRRIGATION	MTN HOME RES	RATTLESNAKE CK	ELMORE		MTN HOME IDA
692	HOODOO CRK	KELSC L	BEAVER L	BNR-BONNER	KAN	CAREYWOOD, ID
693	BEAR R	CUB R	WCRM CK	FRANKLIN		FRANKLIN, ID
694	CLEARWATER	LAPWAI CK		LEWIS		*WINCHESTER EAST, ID
695	MFK SALMON R	MARSH CK	BEAVER CK	CUSTER	CHA	CAPF HORN LAKES
696	CLEARWATER R	LARKINS C		SHOSHONE	STJ	MALLARD PEAK, ID
697	SALMON R	ELKHORN C		IDAHO	PAY	HERSHEY POINT, IDAHO
698	SN PL ACUIF			BLAINE		BLIZZARD MTN SO, ID
699	PRIEST R	SOLDIER CK	LEE CK	BNR-BONNER		COOLIN, IDAHO
700	SELWAY R	3 LINKS CK	WFK 3 LINKS CK	IDAHO	NEZ	FENN MTN, IDAHO
701	BOISE R	MFK BCISE R	LEGGIT CK	ELMORE	BOI	ATLANTA EAST, ID
702	SALMCN R	LEMHI CK		IDAHO	PAY	SHEEPEATER MTN, ID



STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 28

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACREAGE
703	LEMCK LAKE	36	T09N	R41E	111 33 30	44 04 00	9	30.0
704	LEO LAKE	12	T39N	R13E	114 46 30	46 44 10	5	10.0
705	LIBERTY LAKES (2)	36	T17N	R15E	114 38 30	44 45 15	6	8.0
706	LICK LAKE	13	T20N	R09E	115 18 00	45 04 30	6	2.0
707	LIGHTNING LAKE	11	T13N	R14E	114 47 00	44 28 00	6	4.0
708	LILY LAKE	21	T09N	R13E	114 57 30	44 05 30	6	1.0
709	LILY LAKE	13	T38N	R16E	114 23 00	46 38 00	5	20.0
710	LILY PAD LAKE	10	T23N	R02W	116 33 45	45 21 15	7	2.9
711	LILY POND	18	T11N	R44E	111 17 30	44 17 15	9	7.0
712	LIMBER LAKE	C9	T08N	R12E	115 04 00	44 02 45	8	3.1
713	LIMEKILN LAKE	10	T15S	R42E	111 34 30	42 08 15	11	1.0
714	LINE LAKE	23	T26N	R15E	114 35 00	45 34 15	5	3.0
715	LITTLE CAMAS RES	C9	T01S	R09E	115 22 30	43 20 45	8	1455.0
716	CRANE CREEK RES, LIT.	14	T12N	R03W	116 40 00	44 22 30	8	21.0
717	JARVIS LAKE, LIT. (E)	16	T15S	R02E	116 14 00	42 06 00	8	279.6
718	LITTLE LAKE	35	T57N	R03W	116 40 30	48 14 45	2	5.0
719	LITTLE RES	19	T08N	R01W	116 30 00	44 31 30	8	54.8
720	LITTLE VALLEY RES	03	T04S	R42E	111 31 00	43 05 00	9	160.0
721	LITTLE VALLEY RES	30	T13S	R43E	111 28 00	42 15 30	11	35.0
722	LIT. WOOD RIV. RES.	02	T01N	R20E	114 02 30	43 26 30	9	600.0
723	LIVERMORE LAKE	18	T56N	R01E	116 24 00	48 13 00	2	8.0
724	LIZARD LAKES	12	T33N	R10E	115 09 00	46 13 00	5	50.0
725	LLOYD LAKE	21	T33N	R10E	115 12 50	46 11 30	5	23.0
726	LLOYDS LAKE	01	T21N	R02E	116 10 00	45 11 45	6	8.0
727	LODGEPCLE LAKE	C5	T06N	R10E	115 17 30	43 53 15	8	4.0
728	LOGAN LAKE	09	T20N	R09E	115 22 00	45 05 15	6	8.0

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFCRST	MAPNAME
703	SNAKE R	HENRYS FGRK	SAND CK	FREMONT		LEMON LAKE, ID
704	NFK CLEARWATER	KELLY CK	MFK KELLY CK	CLEARWATER	CLE	RHODES PEAK, IDA-MON
705	WFK CAMAS CK	POLE CK	LIBERTY CK	LEMHI	CHA	SLEEPING DEER MTN. I
706	MFK SALMON R	BIG CK	LICK CK	VALLEY	PAY	EDWARDSBURG, IDAHO
707	SALMON R	YANKEE FK	LIGHTENING	CUSTER	CHA	MT JORDAN, ID
708	SALMON R	REDFISH L	REDFISH L C	CUSTER	SAW	MT CRAMER, ID
709	LOCHSA R	CROCKED F	BRUSHY CK	IDAHO		WEST FORK BUTTE, MONT
710	SNAKE R	WFK SHEEP		IDAHO	NEZ	HE DEVIL
711	SNAKE R	HENRYS FGRK	WARM R	FREMONT	TAR	HATCHERY BUTTE, ID
712	PAYETTE R	SFK PAYETTE	GOAT CK	BOISE	BOI	WARBONNET PEAK
713	BEAR LAKE	ST CHARLES	DRY CANYON	BEAR LAKE	CAR	PARIS PEAK, ID
714	SELWAY R	WILKERSON C	STORM CK	IDAHO	BIT	BLUE JOINT, ID-MONT
715	SNAKE R	SFK BCISE R	ANDERSON	ELMORE	BOI	*ANDERSON RANCH DAM
716	WEISER R	CRANE CK	BUTTE CK	WASHINGTON		CRANE CREEK RES
717	OWYHEE R			OWYHEE		MOUNTAIN VIEW LAKE
718	PEND O R R			BNR-BONNER	KAN	MORTON, ID
719	SNAKE R	PAYETTE R	BISSEL CK	GEM		HOG COVE BUTTE
720	WILLOW CK	GRAYS L OUTLET	GRAYS LAKE	BNL-BONNEV		CRANES FLAT
721	BEAR R	CVID CK	HAMMOND CK	BEAR LAKE	CAR	OVID, ID
722	MALAD R	BIG WOOD R	LIT. WOOD R	BLAINE		LITTLE WOOD RIVER RES
723	PEND O R R	PEND O R L		BNR-BONNER	KAN	PACKSADDLE MTN, ID
724	SELWAY R	NFK MCCSE CK	WOUNDED DOE CK	IDAHO	NEZ	FENN MTN, IDAHO
725	LOCHSA R	CLD MAN C	CK N/A	IDAHO	CLE	FENN MTN, IDAHO
726	LIT SALMON R	HAZARC CK	VANCE CK	IDAHO	PAY	HAZARD LAKE, IDAHO
727	BOISE R	NFK BCISE	LODGEPCLE CK	ELMORE	BOI	SWANHOLM PEAK, IDAHO
728	MFK SALMON R	BIG CK		VALLEY	PAY	EDWARDSBURG, IDAHO

A-30

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 <sup>29</sup>

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACREAGE
729	LOLA LAKES (4)	11	T12N	R10E	115 13 30	44 23 30	6	7.0
730	LONE LAKE, NORTH	02	T33N	R10E	115 10 30	46 13 30	5	21.0
731	LONE LAKE, SOUTH	11	T33N	R10E	115 10 30	46 13 00	5	22.0
732	LONESOME LAKE	28	T31N	R12E	114 57 30	45 59 00	5	2.6
733	LCNE TREE RES (E)	14	T06S	R06W	117 01 39	42 54 15	8	140.0
734	LONG LAKE	34	T05N	R22E	113 50 00	43 43 00	9	13.8
735	LONG LAKE	05	T13N	R07E	115 39 45	44 30 00	6	15.0
736	LONG LAKE	25	T35N	R10E	115 08 30	46 20 40	5	20.0
737	LONG LAKE	12	T47N	R05E	115 43 45	47 26 00	3	1.0
738	LONG MTN LAKE	04	T63N	R02W	116 36 00	48 50 00	1	2.0
739	LCNG TOM RES	35	T01S	R07E	115 35 00	43 17 00	8	164.0
740	LOOKOUT LAKE	09	T36N	R16E	114 27 30	46 28 30	5	0.6
741	LOOKCUT LAKE	29	T38N	R10E	115 13 15	46 36 30	5	4.0
742	LOOKCUT LAKE, LITTLE	07	T03N	R09E	115 25 15	43 36 15	8	0.3
743	LOOKCUT LAKE, BIG	07	T03N	R09E	115 25 15	43 36 00	8	8.0
744	LOOKCUT LAKE	30	T63N	R03W	116 46 30	48 47 00	2	3.0
745	LCGN LAKE	15	T21N	R05E	115 50 00	45 10 00	6	100.0
746	LOST LAKE	32	T28N	R06E	115 44 30	45 42 45	5	5.0
747	LOST LAKE	19	T14N	R11E	115 09 00	44 32 00	6	11.0
748	LOST LAKES (8)	20	T11N	R09E	115 24 00	44 16 30	6	20.0
749	LOST LAKE	18	T11N	R09E	115 26 10	44 17 00	6	3.0
750	LOST LAKE	20	T13N	R03E	116 07 00	44 26 45	8	0.7
751	LOST LAKE	29	T21N	R16E	114 37 30	45 06 45	6	6.2
752	LOST LAKES (3)	24	T38N	R13E	114 46 00	46 37 30	5	10.0
753	LCST LAKE	16	T43N	R04E	115 57 30	47 04 30	5	20.0
754	LCST LAKE, LITTLE	15	T43N	R04E	115 56 30	47 04 00	5	2.0

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
729	MFK SALMON R	MARSH CK	LOLA CK	CUSTER	CHA	CAPE HOPN LAKES, ID
730	WOUNDED DOE CK	LIZARD LAKE		IDAHO	NEZ	FENN MTN, IDAHO
731	WOUNDED DOE CK	LIZARD LAKE		IDAHO	NEZ	FENN MTN, IDAHO
732	SELWAY R	DITCH CK	LONESOME CK	IDAHO	NEZ	WYLIES PEAK, ID
733	OWYHEE R	JORDAN CK	LONE TREE CK	OWYHEE		JORDAN VALLEY ID/ORE
734	BIG LCST R	EFK BIG LCST R	STAR HOPE CK	CUSTER		MULDOON CANYON
735	SALMON R	SFK SALMON R	MORMON CK	VALLEY	BOI	DEADWOOD RES, ID
736	LOCHSA R	STANLEY CK		IDAHO	CLE	GREENSIDE BUTTE, IDA
737	SFK COEUR DAL	WILLOW CK	WFK WILLOW	SHOSHONE	CDN	WALLACE ID-MONT
738	KOCTENAI R	PARKER CK	GROUNDWATE	BOUNDARY	KAN	PYRAMID PEAK, ID
739	IRRIGATION	FEEDER CANAL	LONG TOM CK	ELMORE		DANSKIN PFAK, ID
740	LOCHSA R	WHITE SANC	STORM CK	IDAHO	CLE	WHITE SAND LAKE, ID-MCNT
741	NFK CLEARWATER	KELLEY CK	CAYUSE CK	CLEARWATER	CLE	LOOKOUT PEAK, ID
742	BOISE R	SFK BOISE	TRINITY CK	ELMORE	BCI	TRINITY MOUNTAIN
743	SFK BOISE R	TRINITY CK	RAINBOW CK	ELMORE	BCI	TRINITY MTN
744	PEND O R R	PRIEST R	CARIBOU CK	BOUNDARY	KAN	CARIBOU CREEK, ID
745	SFK SALMON R	SECESS R	LOON CK	VALLEY	PAY	LOON LAKE
746	CLEARWATER R	SFK CLEARWA	20 MILE CK	IDAHO	NEZ	NORTH PCLE, ID
747	MFK SALMON R	RAPID R	FLOAT CK	CUSTER	CHA	GREYHOUND RIDGE, IDA
748	MFK SALMON R	BEAR VAL CK	CACHE CK	VALLEY	BOI	CACHE CREEK ID
749	MFK SALMON R	BEAR VAL CK	CACHE CK	VALLEY	BCI	CACHE CREEK ID
750	PAYETTE R	NFK PAYETTE R	MOORES CK	VALLEY	BOI	SMITH'S FERRY
751	SALMON R	MFK SALMON R	WATERFALL CK	LEMHI	SAL	HOODOO MEADOWS
752	NFK CLEARWATER	KELLY CK	CAYUSE CK	CLEARWATER	CLE	CAYUSE JCT
753	CLEARWATER R	L NFK CLEARWAT	LOST LAKE	SHOSHONE	STJ	WIDOW MTN., ID
754	NFK CLEARWATER	L NFK CLEARWAT	L LCST L CK	SHOSHONE	STJ	WIDOW MTN., ID

A-31

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 <sup>30</sup>

CBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACREAGE
755	LOST LAKE	31	T48N	R04E	116 00 00	47 27 00	3	5.0
756	LOST LAKE	17	T51N	R05W	117 00 00	47 46 15	3	2.0
757	LOST LAKE	19	T56N	R01E	116 23 30	48 11 30	2	2.0
758	LOST PACKER LAKE	31	T25N	R14E	114 46 30	45 28 30	6	13.5
759	LOST VALLEY RES	28	T19N	R01W	116 27 30	44 57 58	8	750.0
760	LOTTIE LAKE (2)	19	T34N	R10E	115 15 00	46 16 00	5	7.0
761	LOUIE LAKE	34	T18N	R04E	115 57 45	44 51 30	8	22.0
762	LOUSE LAKE	23	T33N	R09E	115 17 30	46 11 00	5	1.0
763	LOW PASS LAKE	15	T07N	R12E	115 02 30	43 56 30	8	8.0
764	LOWELL, LAKE	19	T03N	R03W	116 40 00	43 33 00	8	9800.0
765	LOWER GRANITE RES	36	T36N	R06W	117 02 30	46 25 30	7	2000.0
766	LUCKY PEAK RES	11	T02N	R03E	116 03 00	43 32 00	8	2850.0
767	HABLE LAKES (7)	14	T13N	R11E	115 09 30	44 27 15	6	10.0
768	MACARTHUR LAKE	33	T28N	R12E	114 58 45	45 43 20	6	7.0
769	MACHAN LAKE	04	T21N	R03E	116 05 00	45 11 30	6	2.0
770	MACKAY RES	12	T07N	R23E	113 42 00	43 57 00	9	1341.0
771	MACKERTS POND	26	T08N	R40E	111 42 20	43 59 30	9	6.0
772	MACON LAKE	26	T01S	R16E	114 31 30	43 18 45	9	25.0
773	MAGIC RES	18	T02S	R18E	114 22 05	43 16 00	9	3500.0
774	MAKI LAKE	24	T19N	R04E	115 55 00	44 58 15	8	17.0
775	MALLARD LAKE	36	T42N	R07E	115 30 45	45 56 15	5	1.0
776	MALONY LAKE	25	T18N	R05E	115 54 00	44 52 30	8	6.0
777	MANN CK RES	11	T12N	R05W	116 54 00	44 23 30	8	281.0
778	MANN LAKE	17	T35N	R04W	116 51 30	46 22 30	5	120.0
779	MAPLE LAKE	18	T34N	R14E	114 46 00	46 17 00	5	4.0
780	MAPLE RIDGE LAKE, LOW	18	T34N	R14E	114 44 50	46 17 10	5	2.6

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
755	SFK CCEUR DAL	LAKE CK		SHOSHONE	CDN	WALLACE, ID
756	SPOKANE R	GROUNDWATER		KUOTENAI		NEWMAN LAKE, WASH-ID
757	PEND O R R	PEND C R L		BNR-BONNER	KAN	PACKSADDLE MTN., ID
758	SALMON R	HORSE CK	WEST HORSE CK	LEMHI	SAL	WAUGH MTN. IDAHO
759	WEISER R	WFK WEISER R	LOST CK	ADM-ADAMS	PAY	NEW MEADOWS, ID
760	MFK CLEARWATER	LOCHSA R	OLD MAN CK	IDAHO	CLE	GREENSIDE BUTTE, IDA
761	NFK PAYETTE R	BOULDER CK	LOUIE CK	VALLEY	PAY	PADDY FLAT
762	SELWAY R	GEDNEY CK	WFK GEDNEY	IDAHO	CLE	CHIMNEY PEAK
763	SNAKE R	BOISE R	MFK BOISE R	ELMORE	BCI	MOUNT EVERLY, ID
764	SNAKE R	BOISE R	N YORK CANAL	CANYON		*LAKE LCWELL, ID
765	SNAKE R			NEZ PERCE		CLARKSTON
766	SNAKE R	BOISE R		ADA	BOI	BOISE, ID.
767	MFK SALMON R	MARSH CK	BEAVER CK	CUSTER	CHA	CAPE HORN LAKES, ID
768	SALMON R	BARGAMIN CK	HOT SPR CK	IDAHO	NEZ	SARE MTN. ID
769	SALMON R	FRENCH CK	L FRENCH CK	IDAHO	PAY	BLACK TIP, ID
770	BIG LCST R			CUSTER		MACKAY, ID
771	HENRYS FORK	ST ANTHONY CNL	LAST CHANCE	FREMONT		ST ANTHONY, ID
772	MALAD R	BIG WCCD R	CAMAS CK	CAMAS		BLAINE, ID
773	SNAKE R	MALAD R	BIG WOOD R	BLAINE		BELLEVUE, ID
774	NFK PAYETTE R	LAKE FK R	EFK LAKE FK	VALLEY	PAY	FITSUM SUMMIT, IDAHO
775	NFK CLEARWATER	SKULL CK	CCLLINS CK	SHOSHONE	STJ	MALLARD PEAK, ID
776	SNAKE R	NFK PAYETTE R L	AKE FORK	VALLEY	PAY	PADDY FLAT, ID
777	SNAKE R	WEISER R	MANN CK	WASHINGTON		MANN CK
778	SNAKE R	CLEARWATER	LINDSAY CK	NEZ PERCE		*SWEETWATER, ID
779	SELWAY R	MCCSE CK	EFK MOOSE CK	IDAHO	NEZ	HUNGRY ROCK, ID
780	SELWAY R	EFK MCCSE CK	CK N/N	IDAHO	CLE	CEDAR RIDGE, ID

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 <sup>31</sup>

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACREAGE
781	MAPLE RIDGE LAKE, SO	31	T34N	R14E	114 44 30	46 14 50	5	1.1
782	MAPLE RIDGE LAKE, UPP	18	T34N	R14E	114 44 50	46 17 00	5	0.6
783	MERRIAM LAKE	17	T09N	R23E	113 45 15	44 07 00	6	4.0
784	MARIE, LAKE	03	T14N	R42E	111 29 30	44 34 15	9	1.6
785	MARION LAKE	18	T18N	R08E	115 31 30	44 53 45	6	3.0
786	MARION MEADOWS LAKE	25	T36N	R14E	114 38 30	46 25 50	5	0.7
787	MARKET L SLCUGH (4)	08	T05N	R37E	112 09 00	43 47 30	9	596.0
788	MARSH CREEK RES	03	T11S	R25E	113 30 50	42 30 00	9	83.0
789	MARSH LAKE	31	T65N	R03W	116 47 00	48 56 30	1	4.0
790	MARSHALL LAKE	31	T10N	R13E	114 59 00	44 09 30	6	2.0
791	MARSHALL LAKE	31	T24N	R05E	115 53 30	45 22 30	6	13.0
792	MARTEN LAKE	15	T11N	R11E	115 09 30	44 17 30	6	3.0
793	MARTIN LAKE	09	T11N	R10E	115 16 00	44 18 15	8	6.0
794	MARY LAKE	29	T23N	R02E	116 14 00	45 19 00	6	2.1
795	MAUD LAKE	12	T36N	R16E	114 24 00	46 28 10	5	20.0
796	MAUDE LAKE	30	T34N	R10E	115 15 15	46 15 30	5	6.0
797	MAY LAKE	29	T34N	R13E	114 52 00	46 15 30	5	13.0
798	MCGOWN LAKES (4)	20	T10N	R12E	115 05 00	44 11 00	6	11.0
799	MCGUIRE LAKE	33	T22N	R16E	114 36 15	45 12 00	6	11.8
800	MCRENOLDS RES	06	T07N	R46E	111 03 30	43 57 45	9	10.0
801	MARTHUR LAKE	27	T60N	R01W	116 27 00	48 31 00	1	144.0
802	MCCAMMON POND	02	T09S	R36E	112 13 00	42 40 00	9	2.0
803	MCCORMICK LAKE	14	T60N	R03W	116 41 30	48 33 15	2	5.0
804	MCDONALD LAKE	25	T08N	R13E	114 53 00	44 00 00	6	15.0
805	MCHAN RES	22	T02S	R15E	114 40 00	43 14 00	9	53.0
806	MACHILLARDS LAKE	04	T08N	R12E	115 03 30	44 03 15	8	2.9

A-33

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
781	SELWAY R	EFK MOOSE CK	CK N/N	IDAHO	CLE	WAHOO PEAK, ID
782	SELWAY R	EFK MOOSE CK	CK N/N	IDAHO	CLE	CEDAR RIDGE, ID
783	SALMON R	PAHSIMEROI CK	WFK PAHSIMEROI	CUSTER	CHA	ELKHORN CREEK, IDAHO
784	SNAKE R	HENRYS FCRK	SFK DUCK CK	FREMONT	TAR	SAWTELL PEAK, ID-MONT
785	SFK SALMON R	JOHNSCN CK	PORCUPINE CK	VALLEY	BOI	CATON LAKE
786	LOCHSA R	WHITE SAND	COLT CK	IDAHO	CLE	GRAVE PEAK, ID
787	SNAKE R			JEFFERSON		MARKET LAKE
788	SNAKE R	MARSH CK		CASSIA		*ALBION
789	KOOTENAI R	GRASS CK	MARSH CK	BOUNDARY	KAN	GRASS MTN, ID
790	SALMON R	VALLEY CK	MEADOW CK	CUSTER	CHA	STANLEY, ID
791	SFK SALMON R	SECESF R	LAKE CK	IDAHO		BURGDOPF, ID
792	SALMON R	VALLEY CK	TRAP CK	CUSTER	CHA	BANNER SUMMIT IDA
793	PAYETTE R	SFK PAYETTE	WARM SPRGS	BOISE	BCI	BULL TROUT POINT, ID
794	SALMON R	LAKE CK		IDAHO	PAY	PATRICK BUTTE, ID
795	LOCHSA R	WHITE SAND	MAUD CK	IDAHO	CLE	WHITE SAND L MONT-ID
796	MFK CLEARWATER	LOCHSA R	OLD MAN CK	IDAHO	CLE	HUCKLEBERRY BUTTE, I
797	SELWAY R	EFK PCUSE CK	DOUBLE CK	IDAHO	NEZ	HUNGRY ROCK, IDAHO
798	SALMON R	VALLEY CK	STANLEY L CK	CUSTER	CHA	STANLEY LAKE, ID
799	SALMON R	MFK SALMCN	ROARING CK	LEMHI	SAL	MT MCGUIRE
800	HENRYS FORK	TETCH R	BITCH CK	TETON	TAR	MCRENOLDS RES, ID-WA
801	KOOTENAI R	DEEP CK		BOUNDARY		NAPLES, ID
802	SNAKE R	PORTNEUF R	MARSH CK	BANNCK		MCCAMMON, ID
803	PEND O R R	PACK R	MCCORMICK	BOUNDARY	KAN	MOUNT ROTHAN
804	SALMON R	YELLOWBELLY		CUSTER	SAW	SNOWSIDE PEAK, IDAH
805	MALAD R	BIG WOOD R	CAMAS CK	CAMAS		THORN CREEK, ID
806	PAYETTE R	SFK PAYETTE R	GOAT CK	BOISE	BOI	WARBONNET PEAK

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 <sup>32</sup>

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACREAGE
807	MEADOW CREEK LAKE	29	T18N	R09E	115 22 30	44 51 30	6	8.0
808	MEADOW LAKE	05	T08N	R12E	115 04 45	44 03 30	8	1.5
809	MEADOW LAKE	26	T13N	R26E	113 19 00	44 26 00	6	12.3
810	MEDICINE LAKE	34	T48N	R02W	116 35 00	47 27 30	3	191.0
811	MELTON RES	30	T17N	R04E	116 01 00	44 46 30	8	10.0
812	MERKLEY LAKE	26	T14S	R44E	111 16 00	42 10 30	11	49.0
813	MICKYS LAKE	36	T14N	R39E	111 49 00	44 30 00	9	6.0
814	MIDDLE LAKE	25	T20N	R08E	115 25 30	45 02 00	6	8.0
815	MIDDLEFORK LAKE	17	T18N	R05E	115 52 45	44 53 30	8	2.0
816	MIDNIGHT LAKE	28	T13S	R42E	111 33 15	42 16 15	11	1.0
817	MIKESELL RES #1	11	T09N	R41E	111 34 20	44 07 30	9	20.0
818	MIKESELL RES #2	11	T09N	R41E	111 34 55	44 07 45	9	14.4
819	MILK LAKE	10	T12N	R16E	114 33 30	44 22 30	6	1.0
820	MILK LAKE		T20N	R11E	115 05 00	45 02 45	6	1.9
821	MILL LAKE	12	T05N	R15E	114 38 15	43 46 30	9	16.5
822	MILL LAKE	06	T15N	R24E	113 40 00	44 38 00	6	26.1
823	MILNER LAKE	29	T10S	R21E	114 00 00	42 31 30	9	760.0
824	MINER LAKE	23	T05N	R15E	114 40 00	43 45 30	9	15.2
825	MIRROR LAKE	13	T23N	R02W	116 31 30	45 20 30	6	8.0
826	MIRROR LAKE	03	T26N	R06E	115 41 30	45 37 00	5	8.0
827	MIRROR LAKE	31	T56N	R01W	116 30 00	48 10 00	2	750.0
828	MIRROR LAKE	04	T56N	R04W	116 51 00	48 13 30	2	8.0
829	MIRROR LAKE	15	T21N	R15E	114 34 45	45 09 00	6	3.0
830	MIRROR LAKE	08	T47N	R01E	116 22 00	47 26 30	3	1.0
831	MOE LAKE	23	T32N	R15E	114 33 00	46 05 30	5	4.0
832	MGGFET SLOUGH NO. 1	21	T48N	R02W	116 36 00	47 29 30	3	100.0

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
807	SALMON R	SFK SALMON R	MEADOW CK	VALLEY	BOI	BIG CHIEF CREEK, ID
808	PAYETTE R	SFK PAYETTE R	GOAT CK	BOISE	BCI	WARBONNET PEAK
809	LEMHI R	TEXAS CK	MEADOW L CK	LEMHI	SAL	GILMORE, ID
810	SPOKANE R	COEUR D'ALENE		KOOTENAI		ST MARIES, ID
811	NFK PAYETTE	BOULDER CK	STOVER CK	VALLEY		LAKE FORK, ID
812	BEAR R	BEAR L GUTLET	BEAR L	BEAR LAKE		DINGLE, ID
813	SN PL AQUIFER	DRY CK	MOCSE CK	CLARK	TAR	LOWER RED ROCK LAKE
814	SALMON R	SFK SALMON R	PRCFILE CK	VALLEY	PAY	PROFILE GAP, ID
815	NFK PAYETTE	LAKE FCRK	MFK LAKE FK CK	VALLEY	PAY	FITSUM SUMMIT, ID
816	BEAR R	MILL CK		BEAR LAKE	CAR	MIDNIGHT MTN., ID
817	SALMON R	HENRYS FORK	SAND CK	FREMONT		BLUE CREEK RES, ID
818	SNAKE R	HENRYS FORK	SAND CK	FREMONT		BLUE CREEK RES, ID
819	SALMON R	SQUAW CK	CINNABAR CK	CUSTER	CHA	ELEVENMILE CREEK, ID
820	MFK SALMON R	MONUMENTAL CK	MILK CK	VALLEY	PAY	MONUMENT, ID
821	MALAD R	BIG WOOD R	PRAIRIE CK	BLAINE	SAW	GALENA, ID
822	SALMON R	LEMHI R	MILL CK	LEMHI	SAL	PATTERSON
823	SNAKE R		TWIN FALLS			*MILNER, ID
824	MALAD R	BIG WOOD R	PRAIRIE CK	BLAINE	SAW	GALENA, ID
825	SALMON R	RAPID R	BRIDGE CK	IDAHO	NEZ	HE DEVIL, ID
826	CLEARWATER R	SFK CLEARWATER	TENMILE CK	IDAHO	NEZ	BUFFALO HUMP, ID
827	PEND O R R	PEND C R L		BNR-BONNER	KAN	*PACKSADDLE MTN, ID
828	PEND O R R	PRIEST R		BNR-BONNER		LACLEDE, ID
829	SALMON R	PANTHER CK	CLEAR CK	LEMHI	SAL	MT MCGUIRE, ID
830	SPOKANE R	CCEUR D'ALENE	BALDY CK	KOOTENAI		TWIN CRAGS, ID
831	SALMON R	SELWAY R	BEAR CK	IDAHO	NEZ	HUNTER PEAK, ID
932	SPOKANE R	COEUR D'ALENE		KOOTENAI	CON	ST. MARIES, ID.

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 <sup>33</sup>

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACREAGE
833	MUFFET SLOUGH NC. 2	28	T48N	R02W	113 36 00	44 29 00	3	49.0
834	MONROE LAKE	16	T37N	R10E	115 12 30	46 33 00	5	2.0
835	MONTPELIER RES	26	T12S	R45E	111 10 00	42 21 00	11	132.0
836	MOORES LAKE	01	T26N	R04E	115 53 30	45 37 15	5	59.0
837	MOOSE CREEK RES	26	T41N	R31W	116 25 00	46 52 30	5	70.0
838	MOOSE LAKE	26	T06N	R20E	114 03 30	43 49 00	9	7.0
839	MOOSE LAKE	08	T33N	R16E	114 29 45	46 13 00	5	18.0
840	MOOSE LAKE	29	T38N	R17E	114 21 45	46 36 30	5	18.0
841	MOOSE LAKE	29	T58N	R03E	116 05 00	48 21 30	2	7.0
842	MUREHEAD LAKE	C2	T14N	R09E	115 20 00	44 34 45	6	2.0
843	MORGAN LAKE	C8	T21N	R01E	116 14 30	45 10 30	6	4.0
844	MORGANS WATERHOLE (4)	07	T09S	R29E	113 06 30	42 39 00	9	10.0
845	MORROW RES	12	T05S	R09E	115 20 00	43 00 15	8	47.0
846	MOSQUITO FLAT RES	23	T14N	R17E	114 26 00	44 31 00	6	35.0
847	MOSQUITO LAKE	34	T23N	R09E	115 21 30	45 17 00	6	6.0
848	MOSQUITO LAKE		T20N	R04E	115 59 15	45 01 45	8	3.0
849	MOUNTAIN HOME RES	19	T03S	R07E	115 39 30	43 09 30	8	406.0
850	MOUNTAIN VIEW LAKE	C1	T16S	R02E	116 09 00	42 02 30	8	320.0
851	MOYIE RES	11	T62N	R02E	116 10 15	48 44 00	1	21.0
852	MUD LAKE	01	T06N	R34E	112 22 15	43 52 30	9	7200.0
853	MUD LAKE	36	T08N	R25E	113 25 15	43 59 00	9	6.0
854	MUD LAKE	09	T15S	R44E	111 18 00	42 10 00	11	16640.0
855	MUD LAKE	15	T15N	R08E	115 30 00	44 39 00	6	6.0
856	MUD LAKE	09	T33N	R04W	116 50 30	46 13 00	5	6.0
857	MUD LAKE	29	T34N	R10E	115 14 00	46 15 30	5	6.0
858	MUD LAKE	29	T42N	R07E	115 36 15	45 57 15	5	4.0

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
833	SPOKANE R	COEUR D'ALENE		KOOTENAI	CDN	ST. MARIES, ID.
834	NFK CLEARWATER	KELLY CK	CAYUSE CK	CLEARWATER	CLE	LOOKOUT PEAK, IDAHO
835	BEAR R	MONTPELIER CANY		BEAR LAKE	CAR	MONTPELIER CANYON
836	SFK CLEARWATER	JOHNS CK	MOORES CK	IDAHO	NEZ	HANOVER MTN, ID
837	CLEARWATER R	POTLATCH R	MOOSE CK	LATAH		BOVILL, ID
838	BIG LOST R	EFK BIG LCST	WILDHORSE CK	CUSTER	CHA	STANDHOPE PEAK, ID
839	SELWAY R	MCOSE CK	EFK MOOSE CK	IDAHO	NEZ	TEN MILE LAKE, MONT-ID
840	MFK CLEARW	LOCHSA R	BRUSHY FORK	IDAHO	CLE	ST JOSEPH PEAK, ID
841	PEND O R R	CLARK FORK R	LIGHTNING	BNR-BCNNR	KAN	MT PEND OREILLE, ID
842	SALMON R	MFK SALMON R	RAMSHORN CK	VALLEY	BOI	CHINOOK MOUNTAIN SE
843	SALMON R	LIT SALMON R	HAZARD CK	IDAHO	PAY	HAZARD LAKE, IDAHO
844	SN PL AQUIFER			POWER		YALE, ID
845	SNAKE R	L CANYON CK		ELMORE		BENNETT MTN
846	SALMON R	CHALLIS CK		CUSTER	CHA	TWIN PEAKS, IDAHO
847	SALMON R	CHAMBERLAIN	SFK CHAMBERLAIN	IDAHO	PAY	MOSQUITO PEAK
848	PAYETTE	NFK PAYETTE	BOX CK	VALLEY	PAY	BOX LAKE
849	IRRIG CANALS			ELMORE		MOUNTAIN HOME NO, ID
850	OWYHEE R	BLUE CK	BOYLE CK	CWYHEE		MOUNTAIN VIEW LAKE
851	KOOTENAI R	MOYIE R		BOUNDARY		MOYIE SPRINGS
852	SN PL AQUIFER	OWSLEY CANAL		JEFFERSON		*MUD LAKE NW, ID
853	BIG LCST R	PASS CK		BUTTE	CHA	METHODIST CREEK, ID
854	BEAR R	BEAR L CUTLET		BEAR LAKE		*BEAR LAKE NO, ID
855	EFK SFK SALMON	JOHNSON CK	SAND CK	VALLEY	BOI	CHINOOK MTN., ID
856	LAPWAI CK	SWEETWATER CK	WFK SWEETWATER	NEZ PERCE		WAHA, IDAHO
857	MFK CLEARWATER	LOCHSA R	ROCK LAKE CK	IDAHO	CLE	GREENSIDE BUTTE, IDA
858	SNAKE R	L NFK CLEARWAT	LARKINS CK	SHOSHCNE	STJ	MALLARD PEAK, ID

A-35

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 <sup>34</sup>

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	Basin_No	ACREAGE
859	MUD LAKE	24	T56N	RO1W	116 24 30	48 12 00	2	2.0
860	MUD SPRINGS RES	16	T33N	RO2W	116 25 00	46 12 00	2	2.0
861	MURPHY SLCUGH	04	T56N	RO2W	116 35 00	48 14 00	2	3.0
862	MURTAUGH LAKE	18	T11S	R20E	116 08 00	42 27 45	2	700.0
863	MUSH LAKE	01	T39N	RO8E	114 24 00	46 44 45	2	3.0
864	MUSKRAT LAKE	35	T57N	RO3W	115 24 30	48 14 45	2	3.0
865	MYRTLE LAKE	05	T62N	RO2W	116 47 30	48 45 00	2	30.0
866	MYSTERY LAKE	02	T13N	R14E	114 47 30	44 29 30	16	15.0
867	NASH RES	26	T15S	R38E	111 59 00	42 05 30	11	14.2
868	NICHOLSON RES	22	T01N	RO1E	116 19 00	43 24 30	18	30.0
869	NIELSEN RES	36	T15S	R38E	111 58 00	42 04 30	11	15.1
870	NETHKER LAKE	15	T22N	R74E	115 57 00	45 14 45	6	7.0
871	NEWMAN LAKE	24	T12N	R10E	115 12 30	44 21 20	6	4.5
872	NICK LAKE	04	T18N	RO5E	115 51 30	44 55 30	6	30.0
873	NO SEE UM LAKE	36	T43N	RO5E	115 46 30	47 01 15	5	4.0
874	NOLAN LAKE	19	T08N	R25E	113 32 15	44 01 15	9	1.0
875	NORTH FCRK LAKE	25	T07N	R17E	114 23 15	43 55 00	9	9.0
876	NORTH LAKE	24	T21N	RO4E	115 54 45	45 08 45	6	6.0
877	NORTH STAR LAKE	09	T03N	RO8E	115 30 30	43 36 45	8	5.0
878	NORTHBOUND LAKE	34	T42N	RO7E	115 34 30	45 56 15	5	11.0
879	NORTON LAKES (2)	23	T05N	R15E	114 39 00	43 45 00	9	13.0
880	NORTON LAKE	20	T18N	R13E	114 54 00	44 53 30	6	1.0
881	NUB LAKES (2)	31	T41N	RO8E	115 29 30	46 51 45	5	4.0
882	NUT BASIN LAKE	01	T25N	RC2E	116 10 00	45 31 50	5	2.0
883	OCALKENS LAKE	12	T09N	R15E	114 38 30	44 07 30	6	3.0
884	OLD MAN LAKE	17	T33N	R10E	115 14 00	46 12 30	5	45.0

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
859	PEND O R R	PEND C R L		BNR-BONNER	KAN	PACKSADDLE MTN., ID
860	CLEARWATER R	LAPWAI CK		LEWIS		WINCHESTER EAST, ID
861	PEND O R R			BNR-BONNER		SAGLE, ID
862	SNAKE R	TW F M CANAL		TWIN FALLS		MURTAUGH, ID
863	CLEARWATER R	NFK CLEARWATER	ROCK CK	CLEARWATER	CLE	POT MTN., ID
864	PEND O R R			BNR-BONNER		MORTCN, ID
865	KOOTENAI R	BALL CK		BOUNDARY		SMITH PEAK, IDAHO
866	MFK SALMON R	LCGN CK	MAYFIELD CK	CUSTER	CHA	MT JERDAN, ID
867	BEAR R	WESTCN-DAYTON		FRANKLIN		WESTON
868	N YORK CANAL	INDIAN CK	SAND CK	ADA		MORA
869	BEAR R	WESTCN-DAYTON		FRANKLIN		WESTON
870	SFK SALMON R	SECESH R	SUMMIT CK	IDAHO	PAY	VICTOR PEAK, ID
871	SALMCN R	MFK SALMON R	CAPE HORN CK	CUSTER	CHA	BANNER SUMMIT
872	SFK SALMON R	MFK BUCK+CRA C	NICK CK	VALLEY	PAY	FITSUM PEAK, IDAHO
873	NFK CLEARWATER	L NFK CLEAR.	BUTTE CK	SHOSHONE	STJ	MONUMENTAL BUTTES
874	LIT LOST R	WET CK		CUSTER	CHA	MASSACRE MTN
875	BIG LOST R			CUSTER	CHA	RYAN PEAK, IDAHO
876	SFK SALMON R	SECESH R	WILLOW BASIN	VALLEY	PAY	VICTOR PEAK, ID
877	BOISE R	SFK BCISE R	SMITH CK	ELMORE	BOI	PRAIRIE, ID
878	CLEARWATER R	SAWTOOTH CK	NORTHBOUND CK	SHOSHONE	STJ	MALLARD PEAK, ID
879	MALAD R	BIG WCCC R	BAKER CK	BLAINE	SAW	BAKER PEAK, ID
880	SALMON R	MFK SALMCN R	NORTCN CK	VALLEY	RCI	SHELL ROCK PEAK, ID
881	NFK CLEARWATER	SKULL CK	NUB CK	CLEARWATER	CLE	THE NUB
882	SALMON R	L SLATE CK	VAN BUREN CK	IDAHO	NEZ	JOHN DAY MTN, IDAHO
883	SNAKE R	SALMCN R	SLATE CK	CUSTER	CHA	ROBINSON BAR, IC
884	LUCHSA R	GLD MAN CK		IDAHO	CLE	FENN MTN, ID

A-36

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACREAGE
885	OLD STORMY LAKE	31	T37N	R17E	114 22 40	46 30 40	5	2.0
886	ONEIDA NARROWS RES	23	T13S	R40E	111 43 00	42 17 30	11	515.0
887	OPAL LAKE	12	T18N	R18E	114 17 00	44 53 30	6	13.5
888	OREAMNUS LAKE	04	T08N	R12E	115 03 45	44 03 30	8	10.1
889	OREGON BUTTE LAKE	12	T25N	R06E	115 40 00	45 31 30	6	7.0
890	OSTER LAKES	35	T07S	R13E	114 53 30	42 46 15	9	18.0
891	OTTER RES (E)	05	T15S	R04E	115 58 00	42 09 00	8	92.0
892	OXBOW RES	21	T19N	R04W	116 50 00	44 56 30	7	1500.0
893	OXFCRD RES (3)	22	T13S	R38E	112 00 15	42 17 00	11	39.1
894	PACKRAT LAKE	10	T08N	R12E	115 03 00	44 02 45	8	11.6
895	PACKSADDLE LAKE	11	T05N	R43E	111 20 00	43 46 15	9	4.0
896	PADDCK VALLEY RES	17	T10N	R02W	116 36 00	44 14 00	8	1302.0
897	PADDY LAKE	24	T09N	R45E	111 07 30	44 03 30	9	3.0
898	PALISADES RES	17	T01S	R45E	111 08 00	43 17 00	10	16100.0
899	PALISADES LAKE, LGW	02	T01N	R45E	111 09 00	43 26 00	10	15.0
900	PALISADES LAKE, UPP	09	T01N	R45E	111 07 30	43 26 30	10	60.0
901	PANCHO LAKE	17	T07N	R12E	115 05 00	43 56 15	8	6.0
902	PAPOOSE LAKES (2)	20	T17N	R10E	115 17 00	44 47 30	9	8.0
903	PAPCOSE LAKE	14	T22N	R13E	114 50 00	45 14 30	6	7.0
904	PAPCOSE LAKE	29	T24N	R01W	116 29 00	45 23 00	6	1.0
905	PAPCOSE LAKE	01	T32N	R13E	114 47 00	46 08 15	5	3.0
906	PARACHUTE LAKE	35	T36N	R16E	114 25 15	46 25 00	5	25.0
907	PARACHUTE LAKE, UPPER	11	T36N	R16E	114 25 15	46 23 30	5	2.4
908	PARADISE LAKE	29	T05N	R14E	114 50 30	43 43 30	8	3.0
909	PARADISE LAKE	27	T29N	R02E	116 12 30	45 18 00	6	6.3
910	PARAGON LAKE	08	T20N	R16E	114 37 15	45 05 00	6	8.9

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
885	LOCHSA R	WHITE SAND CK	SFK STORM CK	IDAHO	CLE	RANGER PEAK, ID-MONT
886	BEAR R			FRANKLIN	CHA	ONEIDA NARROWS RES
887	SALMON R	PANTHER CK	OPAL CK	LEMHI	SAL	OPAL LAKE, IC
888	PAYETTE R	SFK PAYETTE R	GOAT CK	BOISE	BOI	WARRGNET PEAK
889	CROCKED CK	FRITZ CK	WFK FRITZ CK	IDAHO	NEZ	BUFFALO HUMP, ID
890	SN PL AQUIFER			GOODING		HAGERMAN, ID
891	OWYHEE R	BLUE CK	SQUAW CK	OWYHEE		RIDDLE, ID
892	SNAKE R			ADM-ADAMS		COPPERFIELD
893	BEAR R	CACHE CANAL	DEEP CK	FRANKLIN		OXFORD, IDAHO
894	PAYETTE R	SFK PAYETTE	GOAT CK	BCISE	BOI	WARBCNET PEAK
895	HENRYS FORK	TETCH R	PACKSADDLE CK	TETON	TAR	PACKSADDLE LAKE, ID
896	PAYETTE R	L WILLOW CK		WASHINGTON		PADDCK VALLEY RES
897	SNAKE R	HENRYS FORK	FALLS R	FREMONT	TAR	WARM RIVER BUTTE
898	SNAKE R			BNL-BONNEV	CAR	PALISADES DAM, ID
899	SNAKE R	PALISADES CK		BNL-BONNEV	TAR	THOMPSON PEAK
900	SNAKE R	PALISADES CK		BNL-BONNEV	TAR	PALISADES PEAK, ID-WA
901	BOISE R	MFK BCISE R	ROCK CK	ELMORE	BOI	MOUNT EVERLY, ID
902	MFK SALMON R	INDIAN CK	PAPOOSE CK	VALLEY	BOI	BIG CHIEF CREEK, ID
903	SALMON R	PAPCOSE CK		IDAHO	SAL	PAPCOSE PEAK, ID
904	LIT SALMON R	SQUAW CK	PAPCOSE CK	IDAHO	NEZ	KESSLER CREEK, IDAHO
905	SELWAY R	PETTIBONE CK	BRAVE CK	IDAHO	NEZ	FREEMAN PEAK
906	MFK CLEARWATER	LOCHSA R	WHITE SAND CK	IDAHO	CLE	WHITE SAND L MONT-ID
907	LOCHSA R	WHITE SAND CK	CK N/N	IDAHO	CLE	WHITE SAND L MONT-ID
908	BOISE R	SFK BOISE R	PARADISE CK	CAMAS	SAW	PARADISE PEAK, ID
909	SNAKE R	SALMON R	PARTRIDGE CK	IDAHO	PAY	PATRICK BUTTE, ID
910	MFK SALMON R	WILSON CK	RAMSHORN L	LEMHI	SAL	HOODOO MTN., ID

A-37



STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 36

UBS	NAME	SECTION	TOWNSHIP	RANGE	LONGTUDE	LATITUDE	BASIN_NO	ACREAGE
911	PARK LAKE	30	T33N	R15E	114 37 30	46 10 30	5	14.0
912	PARKER LAKE	28	T64N	R02W	116 36 00	48 51 45	1	6.0
913	PARROT LAKE	C5	T21N	R16E	114 37 00	45 11 00	6	1.4
914	PARSONS LAKE	01	T32N	R10E	115 09 00	46 08 30	5	2.2
915	PARTRIDGE CK LAKE	03	T22N	R02E	116 12 00	45 16 30	6	2.2
916	PASS CK LAKE (E)	29	T09N	R29E	113 01 00	44 04 30	9	4.0
917	PASS LAKE	20	T09N	R23E	113 45 15	44 05 30	6	9.4
918	PATS LAKE	C1	T07N	R11E	115 07 30	43 59 30	8	12.0
919	PAUL RES (E)	10	T13N	R35E	112 20 00	44 27 30	9	6.0
920	FAWN LAKE	06	T25N	R07E	115 38 00	45 32 15	6	7.0
921	PAYETTE LAKE	C8	T18N	R03E	116 C5 00	44 57 30	8	5337.0
922	PAYETTE LAKE, LITTLE	13	T18N	R03E	116 02 00	44 55 00	8	1479.0
923	PAYETTE LAKE, UPPER	36	T21N	R03E	116 01 30	45 07 30	8	315.0
924	PAYNE CREEK RES	34	T13S	R03E	116 C5 00	42 15 30	8	75.0
925	PEARL LAKE	C9	T20N	R04E	115 58 30	45 04 30	8	10.0
926	PEND OREILLE, LAKE	21	T56N	R01E	116 28 00	48 07 30	2	94600.0
927	PERKINS LAKE	20	T07N	R14E	114 50 30	43 56 00	6	52.0
928	PERKINS LAKE	C5	T62N	R03E	116 05 30	48 45 30	1	54.0
929	PERKINS LAKE	20	T05N	R12E	114 58 00	43 45 15	8	10.0
930	PETE OTT LAKE	26	T43N	R09E	115 17 30	46 46 30	5	3.0
931	PETES LAKE	33	T18N	R05E	115 51 00	44 51 20	6	8.0
932	PETTIT LAKE	36	T08N	R13E	114 52 30	43 58 45	6	395.0
933	PHYLLIS LAKE	13	T08N	R15E	114 39 00	44 01 30	6	3.0
934	PINE LAKE RES	01	T14N	R03E	116 03 00	44 34 30	8	7.0
935	PINYON LAKE	29	T13N	R15E	114 43 45	44 26 00	6	5.0
936	PINYON LAKE	C5	T14N	R13E	114 54 30	44 35 00	6	2.0

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
911	SELWAY R	BEAR CK	WAHOO CK	IDAHO	NEZ	SADDLE MOUNTAIN
912	KOOTENAI R	LCNG CANYON		BOUNDARY	KAN	PYRAMID PEAK, ID
913	SALMON R	MFK SALMON R	PARROT CK	LEMHI	SAL	MT MCGUIRE, ID
914	SELWAY R	THREE LINKS CK	WFK 3 LINKS CK	IDAHO	NEZ	FENN MTN, IDAHO
915	SNAKE R	SALMON R	PARTRIDGE CK	IDAHO	PAY	PATRICK BUTTE, ID
916	SN PL ACUIFER	BIRCH CK	SFK PASS CK	BUTTE	TAR	DIAMOND PEAK
917	SALMON R	PAHSIMEROI CK	WFK PAHSIMEROI	CUSTER	CHA	ELKHORN CREEK, IDAHO
918	BOISE R	NFK BCISE R	JCHASCN CK	ELMORE	BOI	MOUNT EVERLY, ID
919	SN PL ACUIFER	BEAVER CK	MODOC CK	CLARK	TAR	PAUL RESERVOIR, ID-MONT
920	SALMON R	CROOKED CK	LAKE CK	IDAHO	NEZ	BUFFALO HUMP, ID
921	SNAKE R	PAYETTE R	NFK PAYETTE	VALLEY		MCCALL, ID
922	NFK PAYETTE	LAKE FK R	LAKE FK MID	VALLEY		MCCALL, ID
923	SNAKE R	PAYETTE R	NFK PAYETTE	VALLEY	PAY	*BLACK TIP, ID
924	BLUE CK	SQUAW CK	PAYNE CK	OWYHEE		LITTLE BLUE TBL, ID
925	PAYETTE R	NFK PAYETTE R	PEARL CK	VALLEY	PAY	BOX LAKE, ID
926	PEND O R R			BNR-BONNER	KAN	*RAYVIEW
927	SALMON R	CK N/A	ALTURAS L CK	BLAINE	SAW	ALTURAS LAKE
928	KOOTENAI R	CURLEY CK		BOUNDARY	KAN	LINE POINT, ID-MT
929	SFK BOISE R	ROSS FORK	PERKINS CK	CAMAS	SAL	MARSHALL PEAK
930	CLEARWATER R	NFK CLEARWATER	PETE OTT CK	CLEARWATER	CLE	ELIZABETH LAKE, ID
931	SFK SALMON R	BUCKHORN CK	CK N/A	VALLEY	PAY	BLACKMARE, ID
932	SALMON R	ALTURAS L CK		BLAINE	SAW	*ALTURAS LAKE
933	SALMON R	4TH OF JULY CK		CUSTER	SAW	WASHINGTON PEAK, ID
934	SNAKE R	PAYETTE R	NFK PAYETTE	VALLEY		CASCADE
935	SALMON R	YANKEE FK	JOPDON CK	CUSTER	CHA	CUSTER, ID
936	MFK SALMON	LOOK CK	CANYON CK	CUSTER	CHA	PINYON PEAK, ID

A-38

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 <sup>37</sup>

CBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACREAGE
937	PIONEER RES	17	T05S	R12E	115 03 00	42 59 00	9	220.0
938	PIPER LAKE	29	T23N	R02E	116 14 30	45 18 10	6	4.7
939	PISTOL LAKE	18	T16N	R09E	115 24 00	44 43 30	8	20.0
940	PITKIN RES	10	T12N	R04E	115 58 45	44 23 30	6	18.0
941	PIUTE BASIN RES	14	T14S	R03W	116 38 15	42 12 00	8	8.0
942	PLATEAU LAKE	C1	T20N	R15E	114 38 30	45 05 00	6	5.0
943	PLATINUM LAKE		T41N	R09E	115 15 45	46 55 50	5	2.3
944	PLSNT VW RES, LCW (E)	22	T14S	R35E	112 22 00	42 12 00	11	5.0
945	PLSNT VW RES, UPPER	16	T14S	R35E	112 22 00	42 12 30	11	47.0
946	PLUMMER LAKE	08	T07N	R12E	115 06 00	43 57 00	8	10.0
947	POACHER CK LAKE	17	T34N	R16E	114 28 30	46 16 45	5	1.8
948	POISON LAKE	12	T15N	R02E	116 10 30	44 38 30	8	2.3
949	POLE LAKE	36	T17N	R15E	114 39 30	44 45 45	6	4.0
950	POLLYWOG LAKE	05	T21N	R16E	114 36 45	45 11 00	6	1.0
951	POLLYWOG LAKE	29	T35N	R11E	115 06 45	46 21 00	5	1.3
952	POND PEAK LAKE	14	T52N	R04E	116 03 00	47 41 00	3	1.0
953	PONY LAKE	C4	T21N	R20E	114 07 00	45 11 30	6	5.0
954	PORCUPINE LAKE	29	T09N	R45E	111 10 00	44 04 15	9	5.7
955	PURCUPINE LAKE	34	T57N	R02E	116 11 00	48 14 45	1	7.0
956	PORPHYRY LAKE	07	T34N	R14E	114 45 00	46 18 00	5	15.0
957	PORRETT LAKE	15	T46N	R02W	116 34 20	47 19 40	3	1.0
958	BULLRUN LAKE	C4	T48N	R01W	116 28 00	47 32 00	3	80.4
959	PORTNEUF RES	24	T06S	R38E	112 58 00	42 54 00	9	1593.0
960	PORTUGUESE RES (E)	12	T03S	R16E	114 30 30	43 10 15	9	2.0
961	PCT HOLE RES (E)	26	T08S	R08E	115 28 00	42 42 30	8	93.0
962	POT LAKE	12	T39N	R08E	115 23 30	46 44 30	5	5.0

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
937	SNAKE R	CLOVER CK		GOODING		TICESKA, ID
938	SALMON R	LAKE CK		IDAHO	PAY	PATRICK BUTTE, ID
939	SALMON R	MFK SALMON R	PISTOL CK	VALLEY	BOI	CHINOCK MOUNTAIN NW
940	NFK PAYETTE R	CLEAR CK	SKUNK CK	VALLEY		BOILING SPRINGS
941	OWYHEE R	PIUTE CK		OWYHEE	-	PIUTE BASIN WEST, ID
942	MFK SALMON R	WATERFALL CK	SFK WATERFALL C	LEMHI	SAL	PUDDIN MTN, ID
943	SNAKE R	MFK CLEARWATER	MEADOW CK	CLEARWATER	CLE	BACON PEAK, ID
944	BEAR R	MALAD R		ONEIDA		MALAD CITY WEST, IDA
945	BEAR R	MALAD R		ONEIDA		MALAD CITY WEST, IDA
946	BOISE R	MFK BOISE R	QUEENS R	ELMORE	BOI	MOUNT EVERLY, ID
947	LOCHSA R	WHITE SAND CK	BIG SAND CK	IDAHO	CLE	BLODGETT MTN., ID-MONT
948	NFK PAYETTE R	ROCK CK	POISON CK	VALLEY	BOI	CASCADE, IDAHO
949	MFK SALMON R	MFK CAPAS CK	POLE CK	LEMHI	CHA	SLEEPING DEER MTN. ID
950	SALMON R	MFK SALMON R	ROARING CK	LEMHI	SAL	MT MCGUIRE, ID
951	LOCHSA R	LAKE CK	SPONGE CK	IDAHO	CLE	FISH LAKE, IDAHO
952	SPOKANE R	COEUR D'ALENE	NFK COEUR D'ALE	SHOSHONE	CON	POND PEAK, ID
953	PANTHER CK	NAPIAS CK	PCHY CK	LEMHI	SAL	LEESBURG, ID
954	HENRYS FORK	WARM R	ROBINSON CK	FREMONT	TAR	WARM RIVER BUTTE
955	CLARK FORK R	LIGHTNING CK	PORCUPINE CK	BNR-BONNER	KAN	CLARK FORK, ID-MONT
956	SELWAY R	MOOSE CK	EFK MOOSE CK	IDAHO	CLE	HUNGRY ROCK, ID
957	SPOKANE R	COEUR D'ALENE	ST JOE R	BENEWAH		ST. MARIES, ID
958	SPOKANE R	CCEUR D'ALENE		KOOTENAI		KINGSTON, ID
959	SNAKE R	PORTNEUF R		CARIBOU		PORTNEUF, ID
960	MALAD R	BIG WOOD R	CK N/N	LINCOLN		THORN CREEK, ID
961	SNAKE R	SAILER CK	PCT HOLE	OWYHEE		BLUF BUTTE, ID
962	NFK CLEARWATER	POCK CK		CLEARWATER	CLE	POT MTN., ID

A-39

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 38

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACREAGE
963	POTHOLE LAKE	10	T21N	R16E	114 34 45	45 10 00	6	1.3
964	POTTER LAKE	10	T03N	R08E	115 30 00	43 37 00	6	4.0
965	PCTTERS POND	32	T13N	R03E	116 07 45	44 25 15	8	0.5
966	PRAIRIE LAKES (4)	22	T05N	R15E	114 40 30	43 45 15	9	8.0
967	PRIEST L, UPPER	29	T63N	R04W	116 52 30	48 46 00	2	1352.0
968	PRIEST L, LOWER	05	T60N	R04W	116 51 00	48 31 00	2	23680.0
969	PROFILE LAKE	17	T08N	R13E	114 58 00	44 01 00	6	14.0
970	PROFILE LAKE	15	T20N	R08E	115 28 00	45 04 30	6	6.0
971	PROVIDENCE LAKE	09	T56N	R01W	116 27 00	48 13 30	2	10.0
972	PYRAMID LAKE	20	T63N	RC2W	116 37 00	48 48 00	1	8.0
973	QUAD LAKE	22	T22N	R02W	116 34 00	45 19 30	7	4.8
974	QUARTZITE LAKE	08	T25N	R06E	115 45 00	45 31 30	6	12.0
975	QUAYLES LAKE	18	T07N	R39E	111 54 00	43 56 00	9	149.0
976	QUEEN LAKE	21	T64N	R02E	116 12 00	48 52 30	1	1.0
977	QUIGLEY POND	02	T02N	R18E	114 16 15	43 32 30	9	5.0
978	RAFT LAKE	09	T13N	R03E	116 07 00	44 29 00	8	4.3
979	RAINBOW LAKE, BIG	11	T03N	R09E	115 25 00	43 35 30	8	12.4
980	RAINBOW LAKE, LITTLE	11	T03N	R09E	115 24 15	43 35 50	8	2.8
981	RAINBOW LAKE, MIDDLE	11	T03N	R09E	115 24 30	43 36 15	8	4.7
982	RAINBOW LAKE	29	T33N	R10E	115 13 30	46 10 30	5	3.0
983	RAINBOW LAKE	20	T27N	R07E	115 37 30	45 40 00	5	12.0
984	RAINBOW LAKE	32	T08N	R15E	114 43 30	43 59 00	6	1.0
985	RAINBOW LAKE	11	T17N	R07E	115 34 45	44 50 00	6	14.0
986	RAINBOW LAKE	10	T22N	R02E	116 11 45	45 15 15	6	21.3
987	RAINBOW LAKES (2)	09	T18N	R05E	115 51 00	44 55 00	6	40.0
988	RAMSHORN LAKE	05	T20N	R16E	114 36 30	45 05 00	6	9.8

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
963	SALMON R	PANTHER CK	CLEAR CK	LEMHI	SAL	MT MCGUIRE
964	BOISE R	SFK BOISE R	SMITH CK	ELMORE	BOI	TRINITY MTN, IDAHO
965	NFK PAYETTE R	OLSEN CK		VALLEY	BCI	SMITH'S FERRY
966	MALAD R	BIG WOOD R	PRAIRIE CK	BLAINE	SAW	GALENA, ID
967	PEND C R R	PRIEST R	L PRIEST L	BNR-BONNER	KAN	*CARIBOU CREEK, ID
968	PEND O R R	HELL CARING CK		BNR-BONNER	KAN	COOLIN, ID
969	SALMON R	ELK CK	SFK ELK CK	CUSTER	SAW	MT CRAMER, ID
970	SFK SALMON R	PEND O R L		VALLEY	PAY	PROFILE GAP, ID
971	PEND O R R	TRCUT CK		BNR-BONNER	KAN	PACKSADDLE MTN, ID
972	KOOTENAI R	L GRANITE CK		BOUNDARY	KAN	PYRAMID PEAK, ID
973	SNAKE R	SHEEP CK	EFK SHEEP C	IDAHO	NEZ	HE DEVIL, ID-OR
974	SALMON R	ST ANTHONYS CNL		IDAHO	NEZ	BUFFALO HUMP ID
975	SN PL AQUIF	MOYIE R		FREMONT		PLANC, ID
976	KOOTENAI R	BIG WOOD R	BUSSARD CK	BOUNDARY	KAN	EASTPCRT, ID
977	MALAD R	CASCADE R	QUIGLEY CK	BLAINE		HATLEY, ID
978	NFK PAYETTE R	TRINITY CK	CAMPBELL CK	VALLEY	BCI	SMITH'S FERRY, ID
979	SFK BOISE R	TRINITY CK	RAINBOW CK	ELMORE	BOI	TRINITY MOUNTAIN, ID
980	SFK BOISE R	TRINITY CK	RAINBOW CK	ELMORE	BOI	TRINITY MOUNTAIN, ID
981	SFK BOISE R	TRINITY CK	RAINBOW CK	ELMORE	HCI	TRINITY MOUNTAIN, ID
982	MFK CLEARWATER	SELWAY R	GEDNEY CK	IDAHO	NEZ	FENN MTN, IDAHO
983	CLEARWATER R	SFK CLEARWATER	CROOKED R	IDAHO	NEZ	NORTH POLE, IDAHO
984	SALMON R	CHAMPION CK		CUSTER	SAW	HORTON PEAK, IDAHO
985	SFK SALMON R	EFK SFK SALMON	CATON CK	VALLEY	BOI	LOG MOUNTAIN, ID
986	SALMON R	LIT SALMON R	HAZARD CK	IDAHO	PAY	PATRICK BUTTE, ID
987	SFK SALMON R	BUCKHORN CK	WFK BUCKHORN CK	VALLEY	PAY	FITSUM PEAK, ID
988	SALMON R	MFK SALMON CK	WILSON CK	LEMHI	SAL	HCOOCC MEADOWS, ID

A-40

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 <sup>39</sup>

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACREAGE
989	RANGER LAKE	26	T37N	R16E	114 25 00	46 31 00	5	8.0
990	RANGER LAKE, NE	26	T37N	R16E	114 24 10	46 31 10	5	0.6
991	RAPID LAKE	36	T18N	R04E	115 54 30	44 51 15	8	14.0
992	RATTLESNAKE LAKE	14	T26N	R11E	115 04 30	45 35 00	6	7.0
993	RATTLESNAKE RES	21	T13S	R04E	115 59 45	42 17 15	8	15.0
994	RAY RES	09	T09S	R14E	114 49 00	42 39 15	9	6.0
995	RAYS LAKE	30	T07N	R36E	112 16 00	43 54 30	9	200.0
996	RED LAKE	04	T30N	R11E	115 05 00	45 58 00	5	8.0
997	RED LAKE	35	T12N	R19E	114 10 30	44 20 00	6	1.0
998	RED MOUNTAIN LAKES(14)	28	T11N	R09E	115 23 30	45 15 00	8	6.0
999	REDFISH LAKE, LITTLE	14	T09N	R16E	114 32 00	44 06 00	6	4.0
1000	REDFISH LAKE, LITTLE	26	T10N	R13E	114 54 45	44 09 45	6	68.0
1001	REDFISH LAKE	03	T09N	R13E	114 56 00	44 07 00	6	1507.0
1002	REEDER		T61N	R05W	116 58 00	48 38 30	2	2.0
1003	REFLECTION LAKE	33	T21N	R16E	114 36 15	45 06 15	6	9.3
1004	REGAN LAKE	29	T10N	R12E	115 04 00	44 10 00	8	5.0
1005	REVETT LAKE	25	T49N	R05E	115 45 00	47 33 30	3	11.0
1006	REYNOLDS LAKE	25	T26N	R16E	114 32 30	45 33 30	6	5.0
1007	RICE LAKE	32	T14N	R07E	115 39 00	44 30 30	6	1.0
1008	RICHARDS RES	07	T50N	R05W	117 01 00	47 41 40	3	5.5
1009	RING LAKE	35	T40N	R09E	115 17 30	46 46 00	5	1.0
1010	RIORDAN LAKE	35	T18N	RC9E	115 26 00	44 51 00	6	74.0
1011	RIRIE RES	22	T03N	R40E	111 44 00	43 32 00	9	1560.0
1012	ROARING CK LAKES (2)	26	T22N	R16E	114 33 00	45 12 15	6	16.0
1013	ROARING LAKES (2)	08	T16N	RC7E	115 39 30	44 44 30	6	2.0
1014	ROARING RVR L, LITTLE	01	T03N	RO8E	115 26 30	43 38 00	8	7.0

A-41

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
989	LOCHSA R	WHITE SAND CK	STORM CK	IDAHO	CLE	RANGER PEAK, ID-MCNT
990	LOCHSA R	WHITE SAND	STORM CK	IDAHO	CLE	RANGER PEAK, ID-MCNT
991	NFK PAYETTE R	GCLC FK R	RAPID CK	VALLEY	PAY	PADDY FLAT, ID
992	SALMON R	BARGAMIN CK	RATTLESNAKE CK	IDAHO	NEZ	SHEEP HILL, ID
993	WFK BRUNEAU R	SHEEP CK	MARYS CK	OHYHEE		GRASMERE RESERVOIR
994	SNAKE R	DEEP CK	CK N/N	TWIN FALLS		THOUSAND SPRINGS
995	SN PL AQUIF	CAMAS CK		JEFFERSON		RAY'S LAKE, ID
996	SELWAY R	MEADOW CK	BUCK L CK	IDAHO	NEZ	RUNNING LAKE, IDAHO
997	SNAKE R	SALMON R		CUSTER		LONE PINE PEAK
998	SNAKE R	SFK PAYETTER	EIGHTMILE CK	BOISE	BOI	CACHE CREEK ID
999	SALMON R	EFK SALMON	BIG BOULDER	CUSTER	CHA	BOULDER CHAIN L, IDA
1000	SNAKE R	SALMON R	REDFISH CK	CUSTER	SAW	STALLEY, ID
1001	SNAKE R	SALMON R	L REDFISH	CUSTER	SAW	*MOUNTCRAHER, ID
1002	PRIEST R	L PRIEST	REEDER CK	BNR-BONNER	KAN	PRIFST LAKE, NW, ID
1003	SALMON R	MFK SALMON	WILSON CK	LEMHI	SAL	HOODOO MEADOWS
1004	SNAKE R	SFK PAYETTE R	TRAIL CK	BOISE	CHA	STANLEY LAKE, ID
1005	COEUR D'ALENE	PRICHARD	CASCADE GULCH	SHOSHONE	CDN	BURKE, ID
1006	SALMON R	HCRSE CK	REYNOLDS CK	LEMHI	SAL	BLUE JOINT, ID-MONT
1007	SALMON R	SFK SALMON R	RICE CK	VALLEY	BOI	WARM LAKE, ID
1008	SPOKANE R			KOOTENAI		LIBERTY LAKE, ID-WA
1009	CLEARWATER R	NFK CLEARWATER	PETE OTT CK	CLEARWATER	CLE	ELIZABETH LAKE, ID
1010	SFK SALMON R	JCHNSCN CK	PIORDON CK	VALLEY	BOI	CHILCOOT PEAK, ID
1011	SNAKE R	WILLCW CK		BNL-BONNEV		POPLAR
1012	MFK SALMON R	RCARING CK		LEMHI	SAL	MT MCGUIRE, ID
1013	SALMON R	SFK SALMON R	ROARING CK	VALLEY	BOI	WARM LAKE, ID
1014	MFK BOISE R	ROARING R	ROARING	ELMORE	BCI	LITTLE TRINITY LAKE

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 40

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACREAGE
1015	ROBERTS SLOUGH	33	T05N	R37E	112 07 00	43 43 00	9	50.0
1016	ROBIN CK LAKES (2)	23	T36N	R13E	114 47 20	46 27 00	5	5.3
1017	ROBINSON LAKE	30	T10N	R46E	111 04 00	44 10 00	9	35.7
1018	ROBINSON LAKE	21	T65N	R02E	116 12 30	48 59 00	1	57.0
1019	ROCK ISLAND LAKE	12	T07N	R11E	115 07 45	43 57 30	9	12.6
1020	ROCK ISLAND LAKE	14	T23N	R02W	116 33 15	45 20 00	9	3.7
1021	ROCK LAKE (E)	32	T03S	R29E	113 05 20	43 06 45	8	2.0
1022	ROCK LAKE S	02	T16N	R15E	114 40 15	44 45 10	6	7.0
1023	ROCK LAKE	25	T34N	R10E	115 14 00	46 16 30	5	8.0
1024	ROCK LAKE N	13	T20N	R07E	115 32 30	45 03 30	6	8.0
1025	ROCK LAKE S	36	T20N	R07E	115 32 30	45 02 00	6	3.0
1026	LAKE ROCK LAKE	10	T22N	R04E	115 55 00	45 12 30	6	8.0
1027	ROCK SLIDE LAKE	10	T07N	R12E	115 03 00	43 57 00	8	9.0
1028	ROCKY LAKE	11	T13N	R11E	115 07 45	44 29 00	6	9.7
1029	ROCKY RIDGE LAKE	20	T36N	R08E	115 29 30	46 26 30	5	2.0
1030	ROMAN NOSE LAKES	15	T61N	R02W	116 35 00	48 38 00	1	35.2
1031	ROGSEVELT LAKE	24	T19N	R10E	115 10 15	44 58 00	6	10.0
1032	ROSE LAKE	33	T49N	R01W	116 28 00	47 33 30	3	320.0
1033	ROSS FORK LAKES (8)	26	T05N	R12E	115 02 00	43 44 30	8	31.0
1034	ROUGH LAKE	33	T05N	R22E	113 50 30	43 43 15	9	9.7
1035	ROUGH LAKE	22	T10N	R14E	114 48 00	44 11 30	6	95.0
1036	ROUND LAKE	08	T05N	R21E	113 59 30	43 46 30	9	1.0
1037	ROUND LAKE	27	T05N	R22E	113 49 30	43 43 30	9	4.8
1038	ROUND LAKE	35	T25N	R06E	115 40 15	45 32 30	6	6.6
1039	ROUND LAKE	31	T35N	R11E	115 08 00	46 20 15	5	7.0
1040	ROUND LAKE	04	T46N	R03W	116 43 00	47 22 00	3	1001.0

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
1015	SN PL AQUIFER			JEFFERSON		LEWISVILLE
1016	MFK CLEARWATER	LOCHSA R	ROBIN CK	IDAHO	CLE	TOM BEAL PEAK, ID
1017	HENRYS FORK	WARM R	ROBINSON CK	FREMONT	YNP	WARM RIVER BUTTE
1018	KOOTENAI R	MCYIE R	ROUND PRAIRIE	BOUNDARY	KAN	EASTPORT, ID
1019	SNAKE R	NFK BCISE R	JOHNSON CK	ELMORE	BOI	NAHNEKE MTN., ID
1020	SNAKE R	SHEEP CK	WFK SHEEP CK	IDAHO	NEZ	HE DEVIL, ID-OR
1021	SN PL AQUIFER			BLAINE		MOSBY WELL, ID
1022	MFK SALMON R	LUON CK	ROCK CK	LEMHI	CHA	SLEEPING DEER MTN., ID
1023	LOCHSA R	ROCK L CK		IDAHO	CLE	GREENSIDE BUTTE, ID
1024	SALMON R	SFK SALMON R	ROCK CK	VALLEY	PAY	PARKS PEAK, ID
1025	SALMON R	SFK SALMON R	SHEEP CK	VALLEY	PAY	PARKS PEAK, ID
1026	SFK SALMON R	SECESH R	SUMMIT CK	IDAHO	PAY	VICTOR PEAK, ID
1027	PAYETTE R	SFK PAYETTE R	BENEDICT CK	BOISE	BOI	MOUNT EVERLY
1028	MFK SALMON R	MARSH CK	BEAVER CK	CUSTER	CHA	CAPE HORN LAKES, ID
1029	NFK CLEARWATER	WEITAS CK	MIDDLE CK	IDAHO	CLE	WEITAS BUTTE, ID
1030	KOOTENAI R	DEEP CK	CARIBOUCK	BOUNDARY	KAN	ROMAN NOSE, ID
1031	MFK SALMON	BIG CK	MONUMENTAL CK	VALLEY	PAY	RAINBOW PEAK, ID
1032	SPOKANE	COEUR D'ALENE		KOOTENAI		KINGSTON, ID
1033	SFK BOISE R	ROSS FORK CK	SFK ROSS FK CK	CANAS	BOI	ROSS PEAK, ID
1034	BIG LCST R	EFK BIG LCST R	STAR HOPE CK	CUSTER	CHA	MULDOON CANYON
1035	SALMON R	ROUGH CK		CUSTER	CHA	CASINC LAKES, ID
1036	EFK BIG LCST R	STAR HOPE CK	BREAD CANYON	CUSTER	CHA	COPPER BASIN
1037	BIG LCST R	EFK BIG LCST R	STAR HOPE CK	CUSTER	CHA	MULDOON CANYON
1038	SALMON R	CRUCED CK	LAKE CK	IDAHO	NEZ	BUFFALO HUMP, ID
1039	MFK CLEARWATER	LOCHSA R	STANLEY CK	IDAHO	CLE	GREENSIDE BUTTE, IDA
1040	SPOKANE R	COEUR D'ALENE	ST JOE R	BENEWAH		ST MARIES, ID

A-42

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 41

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACREAGE
1041	ROUND LAKE	22	T54N	R03W	116 43 00	48 03 30	2	8.0
1042	ROUND LAKE	36	T56N	R03W	116 38 00	48 09 45	2	46.0
1043	RUBY LAKE	24	T26N	R06E	115 39 30	45 34 20	6	10.0
1044	RUDD-MOORE LAKES (4)	33	T39N	R16E	114 27 15	46 35 30	5	25.0
1045	RUFFNECK LAKE	12	T13N	R11E	115 08 30	44 28 30	6	15.7
1046	RUNNING LAKE	26	T30N	R11E	115 03 00	45 55 00	5	18.0
1047	RUTH LAKE	15	T22N	R02W	116 33 15	45 14 30	7	10.0
1048	SADDLE LAKE	06	T26N	R12E	115 01 25	45 37 30	6	7.0
1049	SADDLE LAKE	29	T65N	R03W	116 46 00	48 57 00	1	2.0
1050	SAGEBRUSH SPR. RES	10	T11N	R41E	111 36 00	44 18 15	9	1.0
1051	SAGEHEN RES	35	T12N	R02E	116 11 00	44 20 00	8	176.0
1052	SAGLE SLOUGH	02	T56N	R02W	116 32 00	48 14 00	2	99.2
1053	SALMON FALLS CK RES	18	T14S	R15E	114 45 00	42 07 00	9	2400.0
1054	SALMON FALLS RES	C2	T10S	R13E	114 54 00	42 35 00	9	19.0
1055	SALMON FALLS RES,LOW	02	T07S	R13E	114 54 30	42 50 00	9	840.0
1056	SALMON FALLS RES,UPP	02	T08S	R13E	114 52 30	42 45 30	9	810.0
1057	SAMARIA LAKE	24	T15S	R35E	112 19 00	42 07 00	11	12.0
1058	SANC CREEK RES	10	T10N	R41E	111 37 30	44 12 15	9	67.0
1059	SAND DUNE LAKES (4E)		T06S	R06E	115 42 00	42 55 00	8	100.0
1060	SAND LAKES	31	T60N	R01E	116 23 00	48 30 00	1	10.0
1061	SANDHOLE LAKE	20	T07N	R36E	112 14 00	43 55 30	9	146.0
1062	SATAN LAKE	35	T22N	R02W	116 33 15	45 12 15	7	3.0
1063	SAVAGE RIDGE POND	08	T36N	R15E	114 36 30	46 28 10	5	2.1
1064	SAWTOOTH LAKE	27	T10N	R12E	115 03 30	43 10 30	6	174.0
1065	SCENIC LAKE	35	T07N	R11E	115 08 45	43 53 45	8	20.0
1066	SCHLIEGHT LAKE	16	T55N	R03E	116 05 00	48 06 30	2	1.0

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
1041	PEND O R R	HOODOO CK		BNR-BONNER	KAN	CAREYWOOD, ID
1042	PEND C R R	COCCLALLA CK		BNR-BONNER		MORTON, ID
1043	SALMON R	CRCKED CK	LAKE CK	IDAHO	NEZ	BUFFALO HUMP, ID
1044	MFK CLEARWATER	LOCHSA R	BRUSHY FORK CK	IDAHC	CLE	RANGER PEAK - IDA-MO
1045	MFK SALMON R	MARSH CK	BEAVER CK	CUSTER	CHA	CAPE HGRN LAKES, ID
1046	SELWAY R	RUNNING CK		IDAHO	NEZ	RUNNING LAKE, IDAHO
1047	LIT SALMON R	RAPID R	MFK RAPID R	ADM-ADAMS	PAY	CUPRUM, ID
1048	SALMON R	SABE CK	SADDLE CK	IDAHO	NEZ	SPREAD CREEK POINT
1049	KOOTENAI R	BOUNDARY CK	SADDLE CK	BOUNDARY	KAN	GRASS MTN, ID
1050	SNAKE R	HENRYS FCRK	SAND CK	FREMONT	TAR	BISHOP MTN., ID
1051	SQUAW CK	2ND FK SQUAW	SAGEHEN CK	GEM	BOI	SMITHS FERRY, ID
1052	PEND O R R	PEND O R L		BNR-BONNER		SAGLE, ID
1053	SNAKE R	SALMON FALLS CK		TWIN FALLS		*METECR, ID
1054	SNAKE R	SALMON FALLS CK		TWIN FALLS		BUHL, ID
1055	SNAKE R			GOODING		HAGERMAN, ID
1056	SNAKE R			GOODING		*HAGERMAN, ID
1057	BEAR R	MALAD R	SAMARIA L CANAL	ONEIDA		SAMARIA, ID
1058	SNAKE R	HENRYS FCRK	SAND CK	FREMONT		BLUE CREEK RES, ID
1059	SNAKE R	GRUNDWATER		OWYHEE		SAND DUNES, ID.
1060	PEND C R R	PACK R	SAND CK	BOUNDARY	KAN	NAPLES, ID
1061	SN PL AQUIFER			JEFFERSON		HAMER, ID
1062	L SALMON R	RAPID R	GRANITE FK	ADM-ADAMS	PAY	CUPRUM, ID
1063	MFK CLEARWATER	LOCHSA R	WHITE SAND CK	IDAHC	CLE	SAVAGE RIDGE, ID
1064	SALMON R	VALLEY CK	IRON CK	CUSTER	CHA	STANLEY LAKE
1065	MFK BOISE R	QUEENS R	SCENIC CK	ELMORE	ROI	NAHNEKE MTN., ID
1066	PEND O R R	CLARK FCRK		BNR-BONNER		CLARK FCRK, ID-MONT

A-43

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 <sup>42</sup>

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACREAGE
1067	SCOTT CREEK RES	11	T11N	R06W	117 01 30	44 18 00	7	14.0
1068	SCRIBNER LAKE	17	T22N	R03E	116 07 00	45 15 00	6	10.0
1069	SCURVEY LAKE	30	T39N	R11E	115 07 30	46 41 20	5	1.7
1070	SEAFOAM LAKE	33	T14N	R11E	115 07 00	44 31 00	6	10.0
1071	SEARCH LAKE	11	T64N	R04W	116 48 00	48 55 00	1	3.0
1072	SECTION 25 LAKES (2)	25	T37N	R16E	114 23 00	46 31 00	5	1.3
1073	SERENE, LAKE	03	T22N	R02W	116 31 30	45 11 45	6	10.0
1074	SEVEN DEVILS LAKE	12	T23N	R02W	116 31 30	45 20 45	5	1.9
1075	SEVEN LAKES (3)	29	T34N	R10E	115 13 30	46 15 30	5	6.0
1076	SEWELL RES	33	T12S	R03E	116 06 30	42 21 00	8	8.0
1077	SHADOW LAKES (3)	12	T08N	R24E	113 33 00	44 02 30	9	4.0
1078	SHASTA LAKE	34	T34N	R10E	115 12 00	46 15 00	5	6.0
1079	SHATTUCK LAKE	16	T34N	R16E	114 28 00	46 17 30	5	1.0
1080	SHAW TWIN LAKES (2)	22	T18N	R04E	115 27 30	44 53 15	8	20.0
1081	SHEEP CK RES	14	T13N	R42E	111 28 30	44 27 00	9	20.2
1082	SHEEP CK RES	36	T13S	R43E	111 08 00	42 14 45	11	27.0
1083	SHEEP LAKE	14	T23N	R02W	116 32 15	45 20 00	7	44.8
1084	SHEEP SPRING LAKE	22	T26N	R11E	115 05 15	45 35 00	6	4.0
1085	SHEEP EATER LAKE	16	T21N	R16E	114 36 15	45 08 45	6	6.2
1086	SHEEP EATER LAKE, LIT	31	T24N	R09E	115 23 30	45 23 00	6	3.0
1087	SHEEP EATER LAKE	34	T24N	R09E	115 23 15	45 23 00	6	30.0
1088	SHEEPHERDER LAKE	35	T14N	R07E	115 35 00	44 30 00	8	3.0
1089	SHELL LAKE	11	T23N	R02W	116 33 00	45 20 30	7	8.7
1090	SHELL ROCK LAKE	15	T17N	R07E	115 35 30	44 48 30	6	7.0
1091	SHEPHERD LAKE	23	T56N	R02W	116 31 15	48 11 15	2	99.0
1092	SHERIDAN RES	13	T13N	R40E	111 42 00	44 27 30	9	331.0

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
1067	SNAKE R	SCOTT CK		WASHINGTON		OLDS FERRY SE, ID-ORE
1068	SALMON R	FRENCH CK		IDAHO	PAY	HERSHEY PCINT, IDAHO
1069	MFK CLEARWATER	KELLEY CK	SCURVEY CK	CLEARWATER	CLE	GORMAN HILL, ID
1070	MFK SALMON R	RAPID R	SEAFOAM CK	CUSTER	CHA	GREYHOUND RIDGE, ID
1071	KOOTENAI R	GRASS CK	SEARCH CK	BOUNDARY	KAN	GRASS MTN, ID
1072	LOCHSA R	WHITE SAND CK	SFK STORM CK	IDAHO	CLE	JEANETTE MTN., ID
1073	L SALMON R	HAZARD CK		IDAHO	PAY	HAZARD LAKE, ID
1074	L SALMON R	RAPID R	WEST FORK	IDAHO	NEZ	HE DEVIL, ID-OR
1075	LOCHSA R	BCULDER C	SURPRISE CK	IDAHO	CLE	GREENSIDE BUTTE, ID
1076	OWYHEE R	BLUE CK	L BLUE CK	OWYHEE		LITTLE BLUE TABLE-ID
1077	LITTLE LCST R	DRY CK	LONG LOST C	CUSTER	CHA	MASSACRE MTN
1078	SELWAY R	MOCSE CK	LIZARD L	IDAHO	NEZ	GREENSIDE BUTTE, ID
1079	LOCHSA R	WHITE SAND CK	BIG SAND CK	IDAHO	CLE	BLODGETT MTN., ID-MONT
1080	SNAKE R	NFK PAYETTE	LAKE FORK	VALLEY	PAY	FITSUM SUMMIT, ID
1081	SNAKE R	HENRYS FORK	SHEEP CK	FREMONT		ISLAND PARK DAM
1082	BEAR R	SHEEP CK		BEAR LAKE		PEGRAM, ID
1083	SNAKE R	SHEEP CK	WFK SHEEP CK	IDAHO	NEZ	HE DEVIL, ID-OR
1084	SALMON R	RATTLESNAKE CK		IDAHO	SAL	SHEEP HILL, ID
1085	MFK SALMON R	SHIP ISLAND CK	AIRPLANE L	LEMHI	PAY	MT MCGUIRE, ID
1086	SNAKE R	SALMON R		IDAHO	PAY	FIVEMILE BAR, ID
1087	CHAMBERLAIN	RIM CK	FISH CK	IDAHO	BOI	SHEEP EATER 4TN, ID
1088	SNAKE R	PAYETTE R	DFADWOOD R	VALLEY	BOI	WARM LAKE
1089	SNAKE R	SHEEP CK	WFK SHEEP CK	IDAHO	NEZ	HE DEVIL, ID-OR
1090	EFK SFK SALMON	JCHASCN CK	DITCH CK	VALLEY	BOI	LOG MOUNTAIN, ID
1091	PEND O R R	PEND O R L	SAGLE SLOUGH	BNR-BONNER		SAGLE, ID
1092	SNAKE R	HENRYS FORK	SHERIDAN	CLARK		SHERIDIAN RES, ID

A-44

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 <sup>43</sup>

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	Basin_No	ACREAGE
1093	SHEWAG LAKE	33	T24N	R22E	113 51 45	45 27 00	6	2.0
1094	SHINING LAKE	28	T26N	R06E	115 43 00	45 33 15	6	10.0
1095	SHIP ISLAND LAKE	08	T21N	R16E	114 37 30	45 10 00	6	87.0
1096	SHIRTS LAKE	17	T13N	R03E	116 07 15	44 27 30	8	7.1
1097	SHOBAN LAKE	16	T21N	R16E	114 36 15	45 09 00	6	4.6
1098	SHOOFLY RES	26	T13S	R01E	116 18 00	42 16 00	8	85.0
1099	SHOOT CK LAKES (3)	C3	T37N	R16E	114 26 45	46 35 00	5	5.0
1100	SHGSHCNE FALLS RES	31	T09S	R18E	114 25 00	42 36 00	9	60.0
1101	SLAH LAKE	27	T37N	R16E	114 26 30	46 31 30	5	13.0
1102	SID LAKE	10	T32N	R14E	114 42 00	46 07 45	5	5.0
1103	SILVER LAKE	23	T06N	R16E	114 32 40	43 53 15	9	2.7
1104	SILVER LAKE	35	T12N	R42E	111 28 00	44 20 00	9	182.0
1105	SILVER LAKE	36	T42N	R09E	115 16 10	46 56 00	5	6.0
1106	SINCLAIR LAKE	03	T64N	R02E	116 10 30	48 56 00	1	1.0
1107	SISTERS LAKES (2)	32	T20N	R04E	115 59 30	45 02 00	8	8.0
1108	SIX LAKE BASIN (7)	C4	T21N	R02W	116 36 00	45 12 00	7	23.5
1109	SIX LAKES (3)	14	T08N	R15E	114 40 15	44 01 30	6	8.0
1110	SKAGGS RES	15	T11S	R25E	113 31 00	42 28 00	9	85.0
1111	SKEIN LAKE	C9	T13N	R03E	116 06 45	44 28 45	8	7.5
1112	SKCKUM LAKE	18	T38N	R17E	114 22 00	46 38 00	5	6.0
1113	SKYHIGH LAKE	28	T21N	R16E	114 36 30	45 07 00	6	9.6
1114	SKYLAND LAKE	26	T42N	R07E	115 31 30	45 57 00	6	13.0
1115	SLAB BAR LAKE	29	T16N	R10E	115 31 30	44 31 00	6	1.0
1116	SLATE LAKE	15	T26N	R04E	115 26 20	45 35 00	6	15.0
1117	SLATE LAKE, UPPER	15	T26N	R04E	115 26 30	45 35 30	6	4.0
1118	SLIDE LAKE	13	T07N	R11E	115 07 32	43 56 30	8	1.2

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
1093	SALMON R	NFK SALMON R	SHEEP CK	LEMHI	SAL	SHEWAG LAKE ID-MCNT
1094	SALMON R	SHEEP CK	EFK SHEEP CK	IDAHO	NEZ	BUFFALO HUMP, ID
1095	SALMON R	MFK SALMON R	SHIP ISLAND CK	LEMHI	SAL	AGGIPAH MTN/MT MCGUIRE
1096	NFK PAYETTE R	CASCADE R	WILLOW CK	VALLEY	BGI	SMITH'S FERRY
1097	MFK SALMON R	SHIP ISLAND CK	AIRPLANE L	LEMHI	SAL	MT MCGUIRE, ID
1098	OWYHEE R	BLUE CK	SHOOFLY CK	OWYHEE		SHOOFLY SPRINGS
1099	LOCHSA R	BRUSHY FCRK CK	SPRUCE CK	IDAHO	CLE	RANGER PEAK, ID-MONT
1100	SNAKE R			JEROME		TWIN FALLS
1101	LOCHSA R	WHITE SAND CK	STCRN CK	IDAHO	CLE	RANGER PEAK, ID-MONT
1102	MFK CLEARWATER	SELWAY R	PETTIBONE CK	IDAHO	NEZ	WAHOG PEAK, ID
1103	SNAKE R	BIG WOOD R	SILVER CK	BLAINE	SAW	EASLEY HOT SPRINGS
1104	SNAKE R	HENRYS FCRK		FREMONT	TAR	LAST CHANCE, ID
1105	NFK CLEARWATER	MEACCW CK	SILVER CK	SHOSHONE	STJ	BACON PEAK, ID
1106	KOOTENAI R	MOYIE R		BOUNDARY	KAN	EASTPORT, ID
1107	PAYETTE R	NFK PAYETTE R	POX CK	VALLEY	PAY	BOX LAKE, ID
1108	SNAKE R	DEEP CK	LAKE CK	ADM-ADAMS	PAY	CUPRUM, ID
1109	SNAKE R	SALMON R	4TH OF JULY CK	CUSTER	SAW	WASHINGTON PEAK, ID
1110	SNAKE R	MARSH CK		CASSIA		ALBION
1111	PAYETTE R	NFK PAYETTE R	CASCADE RES	VALLEY	BOI	SMITH'S FERRY
1112	MFK CLEARWATER	LOCHSA R	BRUSHY CK	IDAHO	CLE	DICK CREEK MONT-ID
1113	SALMON R	MFK SALMON CK	WILSON CK	LEMHI	SAL	HOODOO MEADOWS, ID
1114	CLEARWATER R	SAWTCITH CK	NORTHBOUND CK	SHOSHONE	STJ	MALLARD PEAK, ID
1115	SALMON R	CHALLIS CK	MILL CK	CUSTER	CHA	TWIN PEAKS, ID
1116	SNAKE R	SALMON R	SLATE CK	IDAHO	NEZ	HANOVER MTN, ID
1117	SNAKE R	SALMON R	SLATE CK	IDAHO	NEZ	HANOVER MTN, ID
1118	BOISE R	MFK BOISE		ELMORE	BGI	NAHNEKE MTN., ID

A-45



STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACREAGE
1119	SLIDE ROCK LAKE	34	T23N	R02W	116 34 00	45 17 30	6	2.0
1120	SLIDE LAKE	19	T41N	R08E	115 29 45	46 52 45	5	1.0
1121	SMITH CREEK LAKE	10	T03N	R08E	115 29 30	43 37 00	8	6.0
1122	SMITH LAKE	32	T59N	R03E	116 05 30	48 25 00	11	4.0
1123	SMITH LAKE	01	T63N	R03E	116 40 00	48 51 00	11	5.0
1124	SMITH LAKE	30	T63N	R02E	116 15 15	48 46 30	11	25.0
1125	SHOKEY LAKE	26	T05N	R15E	114 39 30	43 44 30	9	2.0
1126	SHOKEY LAKE	12	T39N	R13E	114 46 15	46 44 45	5	3.0
1127	SNOW LAKE	16	T61N	R02W	116 35 30	48 39 30	1	8.0
1128	SNOWBANK LAKE	13	T07N	R11E	115 08 30	43 56 30	8	6.0
1129	SNOWSLIDE LAKE	14	T19N	R04E	115 56 00	44 58 30	8	21.0
1130	SNOWSLIDE LAKES (2)	28	T05N	R14E	114 49 30	43 44 30	8	2.0
1131	SODA CREEK RES	36	T08S	R41E	111 37 00	42 41 00	11	197.0
1132	SODA POINT RES	17	T09S	R41E	111 40 00	42 39 00	11	1165.0
1133	SOLDIER LAKES (12)	24	T14N	R10E	115 12 00	44 32 00	6	20.0
1134	SOLDIERS MEADOW RES	29	T33N	R03E	116 44 00	46 09 30	5	120.0
1135	SOLOMON LAKE	20	T63N	R03E	116 06 00	48 48 00	1	5.0
1136	SUMNERS RES	20	T02S	R19E	114 13 50	43 14 30	9	0.5
1137	SOULEN RES	34	T11N	R02W	116 34 30	44 15 00	8	109.7
1138	SOUTH FORK LAKE	12	T20N	R15E	114 39 30	45 04 25	6	2.0
1139	SFK STORM CK L (MID)	20	T37N	R17E	114 21 20	46 32 15	5	2.3
1140	SFK STORM CK L (NOR)	17	T37N	R17E	114 21 00	46 32 45	5	1.5
1141	SPANGLE LAKE	14	T07N	R12E	115 02 00	43 56 30	8	39.0
1142	SPANGLE LAKE, LITTLE	14	T07N	R12E	115 02 00	43 56 15	8	15.0
1143	SPENCER RES	13	T07S	R03W	116 38 30	42 49 30	8	30.0
1144	SPIRIT LAKE	18	T53N	R04W	116 53 00	47 56 30	2	1280.0

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
1119	SALMON R	RAPID R	WFK RAPID	IDAHO	NEZ	HE DEVIL, ID-OR
1120	NFK CLEARWATER	SKULL CK	COLLINS CK	CLEARWATER	CLE	POLE MOUNTAIN, ID
1121	BOISE R	SFK BCISE R	SMITH CK	ELMORE	BCI	TRINITY MTN, ID
1122	KOOTENAI R	N CALLAHAN	SMITH CK	BNR-BCNNR	KNO	MT PEND CREILLE, ID
1123	KOOTENAI R	LCAG CANYON CK		BOUNDARY	KAN	SMITH PEAK, ID
1124	KOOTENAI R	GPOUNDWATER		BOUNDARY	KAN	RITZ, ID
1125	BIG WOOD R	BAKER CK	NORTON CK	BLAINE	SAW	BAKER PEAK, IDAHO
1126	NFK CLEARWATER	KELLY CK	MFK KELLY CK	CLEARWATER	CLE	RHODES PEAK, ID-MONT
1127	KOOTENAI R	DEEP CK	SNOW CK	BOUNDARY	KAN	ROMAN NOSE, ID
1128	SNAKE R	BOISE R	MFK BCISE R	ELMORE	BCI	MOUNT EVERLY, ID
1129	NFK PAYETTE R	LAKE FK CK	NFK LAKE FK	VALLEY	PAY	FITSUM SUMMIT, ID
1130	SFK BOISE	BIG SMOKY	MFK BIG SMOKY	CANAS	SAW	PARADISE PEEK, ID
1131	BEAR RIVER	SCDA CK		CARIBOU		SODA SPRINGS, ID
1132	BEAR RIVER			CARIBOU		SODA SPRINGS, ID
1133	SALMON R	MFK SALMON	SOLDIER CK	CUSTER	CHA	GREYHOUND RIDGE, ID
1134	CLEARWATER	LAPWAT CK	SWEETWATER	NEZ PERCE		WINCHESTER WEST, ID
1135	MOYIE R	DEER CK	SOLOMON CK	BOUNDARY	KAN	LINE POINT, ID-MONT
1136	MALAD R	LIT WOOD R	J BURNS SLCUGH	BLAINE		TAPPER LAKE
1137	PAYETTE R	BIG WILLCW	CHERRY GULCH	WASHINGTON		PADDOCK VALLEY RES,
1138	MFK SALMON	WATERFALL CK	SFK WATERFALL	LEMHI	SAL	PUDDIN MTN, ID
1139	LOCHSA R	WHITE SAND CK	SFK STORM CK	IDAHO	CLE	ST JOSEPH PEAK, ID-MONT
1140	LOCHSA R	WHITE SAND CK	SFK STORM CK	IDAHO	CLE	ST JOSEPH PEAK, ID-MONT
1141	SNAKE R	BOISE R	MFK POISE R	ELMORE	BOI	MOUNT EVERLY, ID
1142	SNAKE R	BOISE R	MFK POISE R	ELMORE	BOI	MOUNT EVERLY, ID
1143	JCRDAN CK	BGULDER CK	RCK CK	OWYHEE		TRIANGLE, ID
1144	PEND G R R	GRCUOWATER		KOOTENAI		*SPIRIT LAKE WST, ID

A-46



STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 <sup>45</sup>

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACREAGE
1145	SPONGE LAKE	20	T35N	R11E	115 06 30	46 21 43	5	10.0
1146	SPREADPOINT LAKE	29	T27N	R12E	115 00 30	45 38 30	6	15.0
1147	SPRING CREEK RES	11	T02S	R15E	114 38 30	43 16 00	9	50.0
1148	SPRING LAKE (2)	23	T40N	R09E	115 17 40	46 47 30	5	0.3
1149	SPRING VALLEY RES	30	T40N	R03W	116 45 30	46 48 30	5	50.0
1150	SPRINGFIELD LAKE	07	T04S	R32E	116 41 30	43 04 45	9	66.0
1151	SPRUCE CREEK LAKES	12	T37N	R16E	114 23 30	46 34 00	5	15.0
1152	SPRUCE GULCH LAKE	27	T15N	R17E	114 27 00	44 36 00	6	5.0
1153	SPRUCE LAKE	30	T32N	R16E	114 30 00	46 05 00	5	15.0
1154	SPRUCE LAKE	08	T64N	R03E	116 06 00	48 55 30	1	4.0
1155	SQUARE LAKE	07	T26N	R07E	115 38 00	45 36 00	6	7.0
1156	SQUARE LAKE	10	T02S	R18E	114 18 30	43 15 45	9	3.0
1157	SQUARE ROCK LAKE	31	T31N	R12E	115 01 00	45 59 00	5	8.0
1158	SQUARE TOP LAKE	01	T16N	R05E	115 47 30	44 45 30	6	15.0
1159	SQUAW CREEK RES	22	T14S	R03E	116 05 00	42 11 30	8	50.0
1160	SQUAW LAKE	08	T19N	R04E	116 00 00	44 59 30	8	2.0
1161	SQUAW MEADOW	09	T26N	R06E	115 43 45	45 36 30	6	1.0
1162	ST JOE LAKE	04	T42N	R11E	115 05 00	47 01 00	3	18.0
1163	ST JOHN RES	07	T14S	R35E	112 17 00	42 13 30	11	8.9
1164	STAMPEDE LAKE	13	T60N	R01W	116 24 00	48 33 30	1	9.0
1165	STANDARD LAKES (2)	34	T62N	R03W	116 42 30	48 41 00	2	19.1
1166	STANLEY LAKE	33	T11N	R12E	115 03 00	43 14 30	6	181.0
1167	STAR LAKE	12	T07S	R19E	114 11 00	42 50 00	9	5.9
1168	STAR RES	13	T11S	R04W	116 45 15	42 27 45	8	36.5
1169	STEAMBOAT LAKE	09	T21N	R06E	115 43 15	45 11 00	6	7.0
1170	STEAMBOAT LAKE	35	T43N	R05E	115 47 30	47 01 15	5	7.0

A-47

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
1145	LOCHSA R	LAKE CK	SPONGE CK	IDAHO	CLE	FISH LAKE, ID
1146	SALMON R	SABE CK	GODMAN C	IDAHO	NEZ	SPREAD CREEK POINT
1147	MALAD R	BIG WCCD R	CANAS CK	CANAS		BLAINE, ID
1148	CLEARWATER	NFK CLEAR	ELIZABETH CK	CLEARWATER	CLE	ELIZABETH LAKE, ID
1149	CLEARWATER R	PCTLATCH R	BIG BEAR CK	LATAH		MOSCOW MTN, ID
1150	SNAKE R	DANIELSON CK		BINGHAM		SPRINGFIELD
1151	LOCHSA R	BRUSHY FORK	SPRUCE CK	IDAHO	CLE	RANGER PEAK, ID-MONT
1152	SALMON R	CHALLIS CK	SPRUCE GULCH	CUSTER	CHA	TWIN PEAKS, ID
1153	SELWAY R	BEAR CK	PARADISE CK	IDAHO	NEZ	HUNTER PEAK, ID
1154	MOYIE R	SPRUCE CK		BOUNDARY	KAN	CANUCK PEAK, ID-MT
1155	SALMON R	CRCCKED CK	LAKE CK	IDAHO	NEZ	BUFFALO HUMP, ID
1156	SNAKE R	MALAD R	DIG WOOD R	BLAINE		BELLEVUE, ID
1157	SELWAY R	MARTEM CK		IDAHO	NEZ	RUNNING LAKE, IDAHO
1158	SFK SALMON R	BLACKMARE	SFK BLACKMARE	VALLEY	PAY	BLACKMARE, ID
1159	OWYHEE R	BLUE CK	SQUAW CK	OWYHEE		RIDDLE, ID
1160	NFK PAYETTE R	PAYETTE L	FALL CK	VALLEY	PAY	FITSUM SUMMIT, IDAHO
1161	SALMON R	SHEEP CK	SLAUGHTER CK	IDAHO	NEZ	RUFFALO HUMP
1162	PEND C R R	COEUR D'ALENE	ST JOE R	SHOSHONE	STJ	ILLINOIS PEAK MONT-ID
1163	BEAR R	MALAD R		ONEIDA		MALAD CITY WEST, ID
1164	KOOTENAI R	DEEP CK		BOUNDARY	KAN	NAPLES, ID
1165	PEND D R R	PRIEST R	TWO MOUTH CK	BOUNDARY		THE WIGWAMS, ID
1166	SALMON R	VALLEY CK	STANLEY L	CUSTER	CHA	STANLEY LAKE
1167	SN PL AQUIFER			LINCCLN		STAR LAKE
1168	OWYHEE R	DEEP CK	CASTLE CK	OWYHEE		SMITH CREEK, ID
1169	SALMON R	STEAMBOAT CK		VALLEY	PAY	PONY MEADOWS, ID
1170	SNAKE R	NFK CLEARWATER	BUTTE CK	SHOSHONE	STJ	MONUMENTAL BUTTES

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 <sup>46</sup>

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACRFAGE
1171	STEELE LAKE	17	T09N	R46E	111 02 45	44 06 45	9	18.0
1172	STEEP LAKES	22	T41N	R12E	114 56 00	46 53 00	5	11.0
1173	STEPHENS LAKES	24	T09N	R12E	115 01 00	44 06 30	6	18.5
1174	STEVE LAKE	20	T41N	R08E	115 29 15	46 52 40	5	1.0
1175	STEVENS L, LGWER	12	T47N	R05E	115 45 30	47 26 00	3	10.0
1176	STEVENS L, UPPER	12	T47N	R05E	115 45 30	47 26 00	3	7.0
1177	STEWART RES	34	T13S	R44E	111 17 15	42 15 15	11	8.0
1178	STILL LAKE	36	T57N	R02E	116 09 00	48 14 45	1	2.0
1179	STILLMAN LAKE	05	T27N	R12E	114 59 30	45 42 45	6	4.0
1180	STINGRAY LAKE	35	T31N	R15E	114 33 00	45 59 00	5	10.0
1181	STODDARD LAKE	08	T22N	R14E	114 46 00	45 15 40	6	15.0
1182	STONE RES (CURLW V)	35	T15S	R32E	112 41 45	42 04 00	11	150.0
1183	STORM LAKE	18	T37N	R17E	114 22 00	46 33 15	5	15.0
1184	STORM PEAK LAKE	25	T21N	R04E	115 44 45	45 07 30	6	8.0
1185	STRONG ARM RES	09	T14S	R39E	111 53 30	42 13 30	11	24.0
1186	STUMP LAKE	02	T16N	R05E	115 49 30	44 45 30	8	2.0
1187	SUBLETT RES	03	T13S	R29E	113 02 30	42 19 30	9	89.9
1188	SULLIVAN LAKE	03	T10N	R17E	114 26 15	44 13 00	6	41.0
1189	SUMMIT LAKE	10	T15N	R07E	115 35 15	44 38 30	6	1.0
1190	SUMMIT LAKE	36	T18N	R05E	115 54 00	44 51 45	8	6.0
1191	SUMMIT LAKE	12	T21N	R04E	115 56 30	45 02 15	8	1.0
1192	SUMMIT LAKE	12	T21N	R04E	115 54 30	45 10 00	6	17.0
1193	SUMMIT RES	05	T11N	R25E	113 31 00	44 18 30	9	94.7
1194	SUMMIT RES	18	T02S	R17E	114 29 30	43 14 45	9	48.0
1195	SUNSET PALISADES	12	T35N	R06W	117 01 30	46 29 00	5	4.0
1196	SURPRISE LAKE	22	T07N	R12E	115 02 45	43 56 15	8	9.0

A-43

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFOPST	MAPNAME
1171	SNAKE R	HENRYS FORK	FALLS R	FREMONT	TAR	WARM RIVER BUTTE
1172	CLEARWATER R	NFK CLEARWATER	GOOSE CK	CLEARWATER	CLE	STRAIGHT PEAK, ID
1173	SALMON R	REDFISH L CK	FISHHOOK CK	CUSTER	SAW	WARONNET PEAK
1174	NFK CLEARWATER	SKULL CK	COLLINS CK	CLEARWATER	CLE	POLE MTN., ID
1175	SFK COEUR D'AL	WILLOW CK	EFK WILLCW CK	SHOSHONE	CDN	WALLACE ID-MONT
1176	SFK COEUR D'AL	WILLOW CK	EFK WILLCW CK	SHOSHONE	CDN	WALLACE ID-MONT
1177	BEAR R			BEAR LAKE		MONTPELIER
1178	PEND O R R	CLARKFERK R	LIGHTNINGCK	BNR-BONNER	KAN	CLARK FORK, ID-MONT
1179	SALMON R	BARGAMIN CK	HOT SPRING	IDAHO	NEZ	SARE MTN., ID
1180	SELWAY R	BEAR CK	CUB CK	IDAHO	NEZ	MOUNT PALOMA, ID
1181	SALMON R	MFK SALMON	STODDARD CK	IDAHO	SAL	COTTONWOOD BUTTE, ID
1182	BEAR R	MALAD R	DEEP CK	ONEIDA		*STONE, ID
1183	LGCHSA R	WHITE SAND CK	STORM CK	IDAHO	CLE	ST JOSEPH PEAK, ID
1184	SFK SALMON R	SECESH R	LOON CK	VALLEY	PAY	VICTOR PEAK, ID
1185	BEAR R	BATTLE CK		FRANKLIN		BANIDA, IDAHO
1186	NFK PAYETTE R	GOLD FERK CK	KENNALLY CK	VALLEY	PAY	BLACKMARE, ID
1187	RAFT R	WARM CK	SUBLETT CK	CASSIA	SAW	SUBLETT, ID
1188	SALMON R	SULLIVAN CK		CUSTER	CHA	POTAMAN PEAK, ID
1189	SALMON R	SFK SALMON R	WARM L CK	VALLEY	BOI	WARM LAKE, ID
1190	NFK PAYETTE R	GOLD FK R	KENNALLY CK	VALLEY	PAY	PADDY FLAT, ID
1191	SFK SALMON R	SECESH R	LICK CK	VALLEY	PAY	BOX LAKE, ID
1192	SFK SALMON R	SECESH R	SUMMIT CK	VALLEY	PAY	VICTOR PEAK, ID
1193	LIT LGST R	SUMMIT CK		CUSTER		DONKEY HILLS, ID
1194	SN PL AQUIFER			CAMAS		SUMMIT RES., ID
1195	SNAKE R	HATWAI CK		NEZ PERCE		CLARKSTON, ID-WA
1196	BOISE R	MFK BOISE R	ROCK CK	ELMORE	BOI	MOUNT EVERLY, ID

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACREAGE
1197	SWAMP ANGEL LAKE	21	T23N	R14E	114 45 30	45 19 00	6	3.0
1198	SWAMP CK LAKES (2)	09	T35N	R14E	114 42 45	46 23 30	5	1.0
1199	SWAMP LAKE	10	T11N	R14E	115 10 30	44 18 00	5	1.0
1200	SWAMP LAKE	16	T35N	R14E	114 43 00	46 22 40	5	4.0
1201	SWAN FALLS RES	18	T02S	R01E	116 23 00	43 14 30	8	900.5
1202	SWAN LAKE	12	T09N	R4E	111 04 45	44 07 00	9	16.5
1203	SWAN LAKES (4)	30	T09S	R4E	111 28 00	42 36 30	11	35.0
1204	SWAN LAKE	11	T11N	R4E	111 27 40	44 17 30	9	31.0
1205	SWAN LAKE	14	T13S	R3E	111 59 30	42 17 30	3	61.0
1206	SWAN LAKE	14	T46N	R02E	116 34 00	47 20 30	3	25.0
1207	SWAN LAKE	30	T48N	R02E	116 38 00	47 28 00	3	419.0
1208	SWAUGER LAKES (2)	26	T09N	R24E	113 35 00	44 04 50	9	3.0
1209	SWET LAKE	11	T26N	R13E	114 48 45	45 31 15	5	10.5
1210	SWET LAKE POND	02	T26N	R13E	114 49 45	45 31 30	5	10.5
1211	SWIMM LAKE	35	T10N	R16E	114 40 00	44 09 00	6	11.0
1212	TADPOLE LAKE (E)	11	T03S	R02E	116 11 00	43 11 00	8	10.0
1213	TADPOLE LAKE	33	T35N	R16E	114 27 45	46 20 30	5	15.0
1214	TAPPER LAKE	34	T02S	R19E	114 11 30	43 12 30	9	1.0
1215	TAYLOR SLOUGH	31	T05N	R3E	112 09 00	43 47 30	9	1.0
1216	TEAPOT RES, LOWER	03	T05S	R02E	115 29 00	43 01 00	8	82.0
1217	TEAPOT RES, UPPER	34	T04S	R02E	115 29 00	43 02 00	8	50.0
1218	TEMPLEMAN LAKE	24	T63N	R01E	116 15 16	48 48 00	1	2.0
1219	TERRACE LAKES	20	T21N	R16E	114 36 45	45 08 00	6	15.0
1220	TEXAS BASIN	07	T03S	R05W	116 58 00	43 10 00	8	190.0
1221	THE HOLE	13	T07N	R11E	115 07 45	43 57 00	8	2.8
1222	THE RESERVOIR	24	T08S	R41E	111 37 30	42 43 00	11	35.0

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
1197	SALMON R	BUTTS CK		IDAHO	SAL	COTTONWOOD BUTTE, ID
1198	LOCHSA R	WHITE SAND CK	BIG SAND CK	IDAHO	CLE	GRAVE PEAK, ID
1199	MFK SALMON	MARSH CK	SWAMP CK	CUSTER	CHA	BANNER SUMMIT ID
1200	LOCHSA R	WHITE SAND CK	BIG SAND CK	IDAHO	CLE	GRAVE PEAK, ID
1201	SNAKE R			ADA		SINKER BUTTE
1202	HENRYS FORK	WARM R	ROBINSON CK	FREMONT	TAR	WARM RIVER BUTTE
1203	BEAR R	CK N/N		CARIBOU	CAR	FOSSIL CANYON, ID
1204	SNAKE R	HENRYS FERK		FREMONT	TAR	LAST CHANCE, ID
1205	BEAR R	DEEP CK	OXFORD SLOUGH	BANNOCK		SWAN LAKE, ID
1206	SPOKANE R	CCEUR D'ALENE	ST JOE R	BENEWAH		ST MARIES, ID
1207	SPOKANE R	CCEUR D'ALENE		KOOTENAI		ST MARIES, ID
1208	LIT LOST R	DRY CK		CUSTER		MASSACRE MTN
1209	SELWAY P	SWET CK		IDAHO	CHA	STRIPE MTN, ID
1210	MFK CLEARWATER	SELWAY R	SWET CK	IDAHO	BIT	STRIPE MTN, ID
1211	SALMON R	WARM SPRING	SWIMM CK	CUSTER	CHA	ROBINSON BAR, IDA
1212	SNAKE R	GROUNDWATER		ADA		BIG FOOT BUTTE, ID
1213	LOCHSA R	WHITE SAND CK	BIG SAND CK	IDAHO	CLE	BLODGETT MTN, ID-MONT
1214	MALAD R	LIT WOOD R	J BYRN SLOUGH	BLAINE		TAPPER LAKE
1215	BUTTE MARKET			JEFFERSON		
1216	SNAKE R	BENNETT CK		ELMORE		RENNETT MTN.
1217	SNAKE R	BENNETT CK		ELMORE		BENNETT MTN.
1218	MOYIE R	MEADOW CK	TEMPLEMAN CK	BOUNDARY		RITZ, ID
1219	SALMON R	MFK SALMON	WATERFALL CK	LEMYHE	KAN	MT MCGUIRE, ID
1220	SNAKE R	SUCER CK		OWYHEE	SAL	ROOSTER COMB PEAK
1221	SNAKE R	MFK BOISE P	JOHNSON CK	ELMORE	BOI	NAHNEKE MTN., ID
1222	BEAR R	SODA CK		CARIBOU		SODA SPRINGS, ID

A-49

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 48

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACREAGE
1223	THERIAULT LAKE	13	T44N	R03E	116 02 00	47 09 00	3	3.0
1224	THIRTEEN LAKES (6)	04	T25N	R14E	114 45 00	45 30 00	5	45.0
1225	THIRTY-THREE LAKE	07	T19N	R05E	115 53 00	45 00 30	6	30.0
1226	THOMPSON HOLE	19	T09N	R46E	111 03 45	44 05 15	9	23.9
1227	THOMPSON LAKE	22	T48N	R33W	116 43 30	47 29 30	3	216.0
1228	THORN CREEK RES	31	T03S	R16E	114 35 30	43 12 00	9	126.0
1229	THREE ISLAND LAKE	16	T07N	R12E	115 03 30	43 56 45	8	14.0
1230	THREE LAKE	09	T08N	R12E	115 04 15	44 03 00	8	19.4
1231	THREE LINKS L. NO (5)	22	T33N	R10E	115 11 30	46 11 00	5	45.0
1232	THREE LINKS L. SC (3)	28	T33N	R10E	115 12 00	46 10 00	5	10.0
1233	THREEMILE RES	17	T12N	R37E	112 07 30	44 22 30	9	8.0
1234	TILLIE LAKE	24	T40N	R09E	115 16 30	46 47 30	5	7.0
1235	TIMPA LAKE	22	T07N	R12E	115 02 45	43 55 30	8	1.0
1236	TIMBER CK RES	03	T14N	R25E	113 28 00	44 35 00	6	13.0
1237	TIN CUP LAKE	08	T09N	R16E	114 36 45	44 07 25	6	25.0
1238	TIN LAKE	36	T42N	R09E	115 16 00	46 56 30	5	2.0
1239	TINGEY RES	12	T16S	R38E	111 57 30	42 02 30	11	16.1
1240	TIP TOP LAKE	05	T20N	R16E	114 36 30	45 05 30	6	2.8
1241	TITUS LAKE	16	T06N	R15E	114 42 30	43 51 15	9	2.0
1242	TULO LAKE	09	T30N	R02E	116 14 00	45 55 00	6	39.0
1243	TOXAWAY LAKE	05	T07N	R13E	114 57 45	43 57 30	6	125.0
1244	TRAIL CREEK RES	07	T04N	R18E	114 21 00	43 41 40	8	10.0
1245	TRAIL CREEK LAKES (5)	32	T10N	R12E	115 05 00	44 09 00	8	26.0
1246	TRAIL LAKE	14	T20N	R04E	115 56 15	45 08 45	8	9.0
1247	BLAIR TRAIL RES	29	T04S	R10E	115 19 00	43 03 00	8	10.5
1248	TRAILER LAKES (5)	29	T10N	R12E	115 03 30	44 09 30	8	12.0

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
1223	ST JOE R	MARBLE CK	DAVEGGIO CR	SHOSHONE	STJ	MARBLE MTN
1224	MFK CLEARWATER	SELWAY R	THIRTEEN CK	IDAHO	BIT	STRIPE MTN., ID
1225	SFK SALMON R	FITSUM CK	NFK FITSUM CK	VALLEY	PAY	BCX LAKE, ID
1226	SNAKE R	HENRYS FORK	FALLS R	FREMONT	TAR	WARM RIVER BUTTE
1227	SPOKANE R	COEUR D'ALENE		KOOTENAI		ST MARIES, ID
1228	MALAD R	BIG WCCD R	THORN CK	CAMAS		THORN CREEK, ID
1229	PAYETTE R	SFK PAYETTE R	BENEDICT CK	BOISE	BOI	MOUNT EVERLY, ID
1230	PAYETTE R	SFK PAYETTE R	GOAT CK	BOISE	BOI	WARBONNET PEAK
1231	MFK CLEARWATER	SELWAY R	3 LINKS CK	IDAHO	NEZ	FENN MTN, ID
1232	MFK CLEARWATER	SELWAY R	3 LINKS CK	IDAHO	NEZ	FENN MTN, ID
1233	SN PL AQUIFER	BEAVER CK	THREEMILE CK	CLARK		SPENCER SOUTH, ID
1234	CLEARWATER R	NFK CLEARWATER	ELIZABETH CK	CLEARWATER	CLE	ELIZARETH LAKE, ID
1235	MFK BOISE R	RCCK CK	TIMPA CK	ELMORE	BOI	MOUNT EVERLY, ID
1236	LEMHI R	BIG TIMBER CK	MFK L TIMBER CK	LEMHI	SAL	LEADORE, ID
1237	SALMON R	EFK SALMON R	BIG BOULDER	CUSTER	CHA	BOULDER CHAIN L, IDA
1238	SNAKE R	MFK SALMON R	MEADCW CK	SHOSHONE	CLE	BACON PEAK, ID
1239	BEAR R	WESTON-DAYTON		FRANKLIN		WESTON
1240	SALMON R	MFK SALMON R	WILSON CK	LEMHI	SAL	HUCDCC MEADOWS, ID
1241	MALAD R	BIG WCCD R	TITUS CK	BLAINE	SAW	GALENA, ID
1242	SALMON R	ROCK CK	TELCHER CK	IDAHO		GRANGEVILLE WEST, ID
1243	SALMON R	YELLOWBELLY CK	FARLEY L	CUSTER	SAW	SNOWSIDE PEAK, ID
1244	MALAD R	BIG WCCD R	TRAIL CK	BLAINE		SUN VALLEY
1245	SNAKE R	SFK PAYETTE R	TRAIL CK	BOISE	BOI	STANLEY LAKE, ID
1246	SNAKE R	PAYETTE R	TRAIL CK	VALLEY	PAY	VICTOR PEAK, ID
1247	SNAKE R	L CANYON CK	NFK PAYETTE R	ELMORE		BENNETT MTN
1248	SNAKE R	SFK PAYETTE R	TRAIL CK	BOISE	BOI	STANLEY LAKE, ID

A-50

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 <sup>49</sup>

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACPEAGE
1249	TREASURTON RES	C2	T14S	R39E	111 51 00	42 14 30	11	151.0
1250	TRIANGLE LAKE	23	T07N	R11E	115 09 30	43 56 00	8	5.1
1251	TRIANGLE LAKE	22	T23N	R02W	116 33 45	45 19 15	7	7.6
1252	TRIANGLE RES	30	T07S	R02W	116 36 30	42 47 30	8	74.0
1253	TRILBY LAKE, LOWER	29	T27N	R12E	114 45 00	45 39 00	6	12.0
1254	TRILBY LAKE, MIDDLE	20	T27N	R12E	114 45 00	45 39 00	6	6.0
1255	TRILBY LAKE, UPPER	20	T27N	R12E	115 00 00	45 39 25	6	12.0
1256	TRINITY LAKE, BIG	C6	T03N	R09E	115 26 00	43 37 30	8	25.0
1257	TRINITY LAKE, LITTLE	06	T03N	R09E	115 26 00	43 38 00	8	8.0
1258	TRIPLE LAKES (5)	14	T30N	R17E	115 26 00	45 57 00	8	18.0
1259	TRIPOD RES	16	T11N	R03E	116 06 00	44 17 00	8	5.0
1260	TROUT LAKE	10	T63N	R02W	116 35 00	48 49 00	8	7.0
1261	TULE LAKE	27	T09N	R45E	111 07 45	44 04 15	9	12.2
1262	TULE LAKE	13	T15N	R06E	115 41 30	44 37 30	6	2.0
1263	TULE LAKE (E)	07	T19N	R23E	113 48 30	44 59 00	6	1.0
1264	TURKEY LAKE (E)	22	T04S	R15E	114 40 00	43 03 30	6	5.0
1265	TURQUOISE LAKE	32	T21K	R16E	114 36 45	45 06 45	6	7.2
1266	TURTLE LAKE	17	T46N	R01W	116 29 30	47 20 30	3	53.0
1267	TWENTY MILE LAKE	C5	T27N	R06E	115 44 30	45 42 15	8	7.0
1268	TWENTY MILE LAKES (4)	26	T21N	R04E	115 55 15	45 07 30	8	54.0
1269	TWIN COVE LAKE	33	T21N	R16E	114 36 10	45 06 00	6	10.5
1270	TWIN CREEK LAKES	C5	T14N	R17E	114 29 00	44 34 30	6	15.0
1271	TWIN LAKE, LOWER	03	T22N	R02E	116 12 00	45 16 10	6	3.3
1272	TWIN LAKE, UPPER	10	T22N	R02E	116 12 30	45 16 10	6	6.6
1273	TWIN LAKES	01	T52N	R05W	116 55 00	47 53 30	3	959.0
1274	TWIN LAKES (2)	C2	T22N	R13E	114 49 00	45 16 30	6	4.0

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFCRST	MAPNAME
1249	BEAR R	BATTLE CK		FRANKLIN		RIVERDALE, ID
1250	SNAKE R	MFK BOISE R	QUEENS R	ELMORE	ROI	NAHNEKE MTN., ID
1251	SNAKE R	L GRANITE CK		IDAHO	NEZ	HE DEVIL, ID-OR
1252	JORDAN CK	BOULGER CK	ROCK CK	OWYHEE		TRIANGLE, ID
1253	SALMON R	SABE CR	CAMP CK	IDAHO	NEZ	SABE MTN. ID
1254	SALMON R	SABE CK	CAMP CK	IDAHO	NEZ	SABE MTN. ID
1255	SALMON R	SABE CK	CAMP CK	IDAHO	NEZ	SPREAD CREEK POINT
1256	SFK BOISE R	TRINITY CK	FEATHER CK	ELMORE	BOI	TRINITY MTN. ID
1257	SNAKE R	SFK BOISE R	TRINITY CK	ELMORE	BCI	LITTLE TRINITY LAKE
1258	MFK CLEARWATER	SELWAY R	WHITE CAP	IDAHO	BIT	TIN CUP LAKE, ID-MGN
1259	PAYETTE R	NFK PAYETTE R	TRIPCO CK	VALLEY	BOI	SMITHS FERRY IDAHO
1260	KOOTENAI R	TROUT CK		BOUNDARY	KAN	PYRAMID PEAK, ID
1261	SNAKE R	HENRYS FCRK	FALLS R	FREMONT	YAR	WARM RIVER BUTTE
1262	SALMON R	SFK SALMON R		VALLEY	BUI	WARM LAKE, ID
1263	SALMON R	LEPHI R	HAYNES CK	LEMHI	SAL	POISON PEAK, ID
1264	MALAD R	BIG WCCD R	TURKEY CK	GOODING		THORN CREEK, ID
1265	MFK SALMON	WILSON CK	ECHO L	LEMHI	SAL	HOODOO MEADOWS, ID
1266	SPOKANE R	COEUR D'ALENE	ST JOE R	BENEMAH		ST JOE, ID
1267	SNAKE R	SFK CLEARWATER	TWENTY MILE CK	IDAHO	NEZ	NORTH POLE, ID
1268	NFK PAYETTE R	TWENTY MILE CK	NFK TWENTY MILE	VALLEY	PAY	BOX LAKE, ID
1269	MFK SALMON	WILSON CK	REFLECTION	LEMHI	SAL	HOODOO MEADOWS, ID
1270	SALMON R	CHALLIS CK	TWIN CK	CUSTER	CHA	TWIN PEAKS, ID
1271	SALMON R	PARTRIDGE CK		IDAHO	PAY	PATRICK BUTTE, ID
1272	SALMON R	PARTRIDGE CK		IDAHO	PAY	PATRICK BUTTE, ID
1273	SPOKANE R	RATHDRUM C		KOOTENAI		*SPIRIT LAKE WEST
1274	SALMON R	MFK SALMON	PAPCOSE CK	IDAHO	SAL	COTTONWOOD BUTTE, ID

A-51

STATISTICAL ANALYSIS SYSTEM

16:21 THURSDAY, FEBRUARY 10, 1983 <sup>50</sup>

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NC	ACREAGE
1275	TWIN LAKES (2)	17	T07N	R13E	114 57 30	43 56 00	6	52.0
1276	TWIN LAKES (2)	01	T07N	R25E	113 25 40	43 58 00	9	4.0
1277	TWIN LAKES	02	T20N	R02E	116 11 30	45 06 00	6	39.0
1278	TWIN LAKES	13	T21N	R02W	116 31 00	45 09 00	7	5.0
1279	TWIN LAKES	04	T26N	R05E	115 50 00	45 37 15	5	20.0
1280	TWIN LAKES RES	04	T02S	R14E	114 49 00	43 15 00	9	1169.0
1281	TWIN LAKES RES	25	T14S	R38E	111 57 40	42 12 00	11	446.0
1282	TWIN SISTERS LAKES	02	T03N	R08E	115 27 45	43 37 30	8	11.0
1283	TWO LAKES (2)	19	T34N	R11E	115 08 00	46 16 00	5	30.0
1284	TWOMILE CK LAKE	06	T34N	R14E	114 44 50	46 15 00	5	1.6
1285	TWOMILE CK LAKE, N	32	T34N	R14E	114 44 15	46 19 30	5	6.5
1286	TWO MOUTH LAKES (2)	19	T62N	R02W	116 38 30	48 12 30	2	13.0
1287	TWO WAY POND (MANY)	18	T07N	R36E	112 16 00	43 56 00	9	200.0
1288	U P LAKE	17	T22N	R21E	114 00 30	45 13 30	6	4.0
1289	REDFISH LAKES, UPPER	15	T08N	R12E	115 02 15	44 02 30	6	44.5
1290	URQUHART LAKE	22	T46N	R01E	116 19 00	47 19 00	3	5.5
1291	VALLEY CK LAKE	16	T12N	R13E	114 57 15	44 22 30	6	8.0
1292	VANITY LAKES (10)	03	T13N	R12E	115 03 00	44 29 00	6	30.0
1293	VERNON LAKE	12	T07N	R12E	114 59 45	43 57 45	8	18.0
1294	VICS LAKE	36	T18N	R04E	115 54 30	44 51 00	8	2.0
1295	VICTOR LAKE	15	T21N	R05E	115 53 30	45 08 45	6	13.0
1296	VINYARD LAKE	03	T10S	R18E	114 20 30	42 35 15	9	2.2
1297	VIRGINIA LAKE	31	T07N	R13E	114 59 45	43 58 15	8	12.0
1298	WAG CK LAKE	13	T35N	R12E	114 53 30	46 22 45	5	1.0
1299	WAHA, LAKE	16	T33N	R04W	116 50 00	46 12 30	5	93.0
1300	WALCOTT LAKE	01	T09S	R25E	113 24 00	42 40 00	9	11850.0

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
1275	CK N/N	PETTIT L	ALICE L	BLAINE	SAW	SNOWSIDE PEAK, ID
1276	BIG KCST R	PASS CK		BUTTE	CHA	METHODIST CREEK, ID
1277	SALMON R	L SALMON R	GOOSE CK	ADM-ADAMS	PAY	BRUNDAGE MTN, IDA
1278	L SALMON R	RAPID R	TWIN LAKES	ADM-ADAMS	PAY	CUPRUM, ID
1279	CLEARWATER R	JCHNS CK	TWIN L CK	IDAHO	NEZ	HARBLE BUTTE
1280	SNAKE R	BIG WCCD R	CAMAS CK	CAMAS		*DAVIS MTN, ID
1281	BEAR R	DEEP CK		FRANKLIN		BANIDA, ID
1282	MFK BOISE R	ROARING R	MFK RCARING R	ELMORE	BOI	LITTLE TRINITY LAKE
1283	WCUNDED DCE CK	LIZARD L	RHCDA CK	IDAHO	NEZ	*FISH LAKE, IDAHO
1284	SELWAY R	EFK MOOSE CK	CEDAR CK	IDAHO	CLE	CEDAR RIDGE, ID
1285	SELWAY R	EFK MOOSE CK	CEDAR CK	IDAHO	CLE	CEDAR RIDGE, ID
1286	PRIEST R	TWO MOUTH CK		BOUNDARY	KAN	THE WIGWAMS, ID
1287	SN PL AQUIFER			JEFFERSON		RAY'S LAKE, ID
1288	SALMON R	BCB MGRRE		LEMHI	SAL	LEESBURG, ID
1289	SALMON R	REDFISH L CK		CUSTER	SAW	WARBONNET PEAK

A-52



STATISTICAL ANALYSIS SYSTEM

16:34 THURSDAY, FEBRUARY 10, 1983

CBS	NAME	SECTION	TOWNSHIP	RANGE	LCNGTUDE	LATITUDE	BASIN_NO	ACREAGE
1284	THOMILE CK LAKE	06	T34N	R14E	114 44 50	46 19 30	5	1.6
1285	THOMILE CK LAKE, N	32	T34N	R14E	114 44 15	46 19 00	5	1.6
1286	TWC MOUTH LAKES (2)	19	T62N	R02E	116 38 30	48 19 30	2	203.0
1287	TWO WAY POND (MANY)	18	T07N	R36E	112 16 00	43 56 00	2	4.4
1288	U P LAKE	17	T22N	R21E	115 00 30	45 53 30	6	4.4
1289	REDFISH LAKES, UPPER	15	T08N	R12E	115 02 15	44 02 30	6	4.4
1290	URQUHART LAKE	22	T46N	R01E	116 19 00	47 19 00	6	4.4
1291	VALLEY CK LAKE	16	T12N	R13E	114 57 15	44 22 30	3	8.0
1292	VANITY LAKES (10)	03	T13N	R12E	115 03 00	44 22 30	6	30.0
1293	VERNON LAKE	12	T07N	R12E	114 59 45	43 57 00	8	18.0
1294	VICS LAKE	36	T18N	R04E	115 54 30	44 51 00	8	2.0
1295	VICTOR LAKE	19	T21N	R05E	115 31 30	45 08 45	6	13.0
1296	VINYARD LAKE	03	T10S	R18E	114 20 30	42 23 15	6	1.0
1297	VIRGINIA LAKE	31	T07N	R13E	114 59 45	43 57 00	9	12.0
1298	WAG CK LAKE	13	T35N	R12E	114 53 30	46 35 45	9	1.0
1299	WAHA, LAKE	16	T33N	R04E	114 50 00	46 22 30	9	9.0
1300	WALCOTT LAKE	01	T09S	R25E	116 24 00	46 40 15	9	11850.0
1301	WALKER RES	06	T05S	R11E	115 47 30	44 30 15	9	13.0
1302	WALKING FISH LAKE	30	T14N	R40E	111 47 30	44 30 15	9	2.0
1303	WALLACE LAKE	C8	T22N	R21E	114 00 30	45 14 30	6	2.0
1304	WALSH LAKE	29	T59N	R01E	116 30 00	48 26 30	2	33.0
1305	WALTER LAKE	17	T09N	R16E	114 33 00	44 06 30	2	15.0
1306	WALTON LAKES (2)	28	T36N	R14E	114 26 30	44 06 30	2	41.0
1307	WARBONNET LAKE	03	T08N	R12E	115 02 30	44 26 30	8	15.0
1308	WARM LAKE	12	T15N	R06E	115 48 00	44 38 30	8	445.0
1309	WARNER POND	03	T13N	R04E	115 38 00	44 29 15	8	25.0

A-53

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
1284	SELWAY R	EFK MOOSE CK	CEDAR CK	IDAHO	CLE	CEDAR RIDGE, ID
1285	SELWAY R	EFK MOOSE CK	CEDAR CK	IDAHO	CLE	CEDAR RIDGE, ID
1286	PRIEST R	TWC MOUTH CK		BOUNDARY	KAN	THE WIGWAMS, ID
1287	SN PL AQUIFER			JEFFERSON		RAY'S LAKE, ID
1288	SALMON R	BCB MORRE		LEMI		LEESBURG, ID
1289	SALMON R	REDFISH L CK		CUSTER	SAL	WARBONNET PEAK
1290	SALMON R			SHOSHONE	SAL	ST JOE, ID
1291	MFK SALMON	VALLEY CK	PROSPECT CK	CUSTER	CHA	RASIN BUTTE, ID
1292	PAYETTE R	RAPID R	VANITY CK	CUSTER	CHA	LANGER PEAK, ID
1293	NFK PAYETTE R	SFK PAYETTE R	BENEDICT CK	BOISE	BOI	SNOWYSIDE PEAK, ID
1294	SFK SALMON R	GOLD FORK CK	KENNALLY C	VALLEY	PAY	PADUY FLAT, ID
1295	SNAKE R	SEGESH R	VICTOP CK	VALLEY	PAY	VICTOR PEAK, ID
1296	PAYETTE R	VINYARD CK		JEROME		KIMBERLY, ID
1297	PAYETTE R	SFK PAYETTE P		BOISE	BOI	SNOWYSIDE PEAK, ID
1298	LOCHSA R	WARM SPRINGS CK	WAG CK	IDAHO	CLE	BEAR MTN., ID
1299	CLEARWATER R	LAPWAI CK	WFK SWEETWATER	NET PERCE		WAHA, ID
1300	SNAKE R			CASSIA		*LAKE WALCOTT, ID
1301	SNAKE R	KING HILL CK	WALKER DITCH	ELMORE		KING HILL AREA
1302	SN PL AQUIFER	EAST CAMAS CK	SPRING CK	CLARK	TAR	LOWER RED ROCK LAKE, ID-
1303	SNAKE R	SALMON R	WALLACE CK	LEMI	SAL	LEESBURG, ID
1304	PEND O R R	PACK R		BNR-BONNER	KAN	ELMIRA, ID
1305	SALMON R	EFK SALMON R	BIG BOULDER	CUSTER	CHA	BOULDER CHAIN L, ID
1306	MFK CLEARWATER	LOCHSA R	WALTON CK	IDAHO	CLE	GRAVE PEAK, IDAHO
1307	PAYETTE R	SFK PAYETTE R	GOAT CK	BOISE	BOI	WARBONNET PEAK
1308	SALMON R	SFK SALMON R	WARM L CK	VALLEY	BOI	WARM LAKE
1309	PAYETTE R	NFK PAYETTE R	BIG CK	VALLEY		BOILING SPRINGS, ID

STATISTICAL ANALYSIS SYSTEM

16:34 THURSDAY, FEBRUARY 10, 1983

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGITUDE	LATITUDE	BASIN_NO	ACREAGE
1310	WARREN MDS DR PO(41)	34	T23N	R06E	115 42 00	45 17 00	6	10.0
1311	WARRIOR LAKES (3)	05	T07N	R10E	115 17 30	43 52 45	8	6.0
1312	WASHINGTON LAKE	31	T06N	R22E	114 08 30	43 48 00	9	4.0
1313	WASHINGTON LAKE	07	T09N	R10E	114 08 30	44 02 00	6	20.0
1314	WELCCME LAKE	21	T21N	R10E	114 35 30	45 02 45	6	4.0
1315	WEST FORK LAKE	25	T63N	R03E	116 45 00	48 50 00	2	10.0
1316	WEST FORK LAKES (2)	25	T16N	R17E	116 23 30	44 44 00	6	10.0
1317	WEST FORK LAKES (5)	13	T17N	R17E	114 39 30	44 47 30	6	3.0
1318	WEST PUDDIN LAKE	25	T21N	R10E	114 39 30	45 07 30	6	23.0
1319	WESTON CREEK RES	25	T15S	R03E	112 07 00	42 07 30	1	3.0
1320	WEST GULCH PGND (2)	03	T09N	R03E	112 40 34	44 08 15	8	112.0
1321	WEST CATHER RES	24	T11N	R41E	111 34 30	44 16 00	9	0.3
1322	WHITE BY RES	08	T09S	R05E	116 27 00	43 25 00	9	21.0
1323	WHITE CAP LAKES (3)	22	T30N	R10E	114 27 00	45 55 00	9	50.0
1324	WHITE GOAT LAKE		T16N	R10E	114 25 30	44 43 30	6	7.0
1325	WHITE SAND LAKE	23	T36N	R10E	114 25 30	46 27 00	6	30.0
1326	WHITE SAND PGND	24	T37N	R10E	114 41 30	46 30 00	6	3.0
1327	WHITEHOUSE LAKE	05	T37N	R03E	114 46 30	46 30 00	9	3.0
1328	WILDHORSE LAKE	08	T27N	R03E	114 38 30	43 39 30	9	18.0
1329	WILLIAM PEAK (3)	08	T05N	R20E	114 07 30	43 46 30	9	15.0
1330	WILLIAM PEAK (2)	26	T38N	R10E	114 27 30	46 39 00	9	3.1
1331	WILLIAM LAKE	24	T18N	R10E	114 25 30	46 16 30	9	45.0
1332	WILLIAM LAKE	11	T38N	R10E	114 27 30	46 39 00	9	183.0
1333	WILLOW CK RES	05	T38N	R03E	116 47 00	46 28 00	8	3.0
1334	WILSON LAKE	23	T16S	R03E	116 29 00	42 01 15	8	6.4
1335	WILSON LAKE	23	T16S	R03E	116 29 00	42 01 15	8	5.0

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
1310	SNAKE R	SALMON R	WARREN CK	IDAHO	PAY	WARREN, ID
1311	MFK BOISE R	WARRIOR CK	WEST WARRIOR CK	ELMORE	BOI	SWANHOLM PEAK, ID
1312	MFK BIG LOST R	WILDHORSE	BOULDER CK	CUSTER	CHA	PHI KAPPA MTN, ID
1313	MFK SALMON R	GERMANIA CK	WASH. L CK	CUSTER	SAM	BOULDER CHAIN LAKES, ID
1314	SALMON R	MFK SALMON R	WILSON CK	LEMHI	SAL	MT MCGUIRE, ID
1315	KOOTENAI R	SMITH CK	MFK SMITH CK	BOUNDARY	KAN	SMITH PEAK, ID
1316	SNAKE R	SALMON R	MFK MORGAN CK	CUSTER	CHA	TWIN PEAKS, ID
1317	MFK SALMON	CAMAS CK	MFK CAMAS CK	LEMHI	CHA	SLEEPING DEER MTN, ID
1318	SALMON R	MFK SALMON R	WATERFALL CK	LEMHI	SAL	PUDDIN MTN, ID
1319	BEAR R	WESTON CK		ONEIDA		HENDERSON CK, ID-UT
1320	PAYETTE R	LIT WILLOW CK	WET GULCH	PAYETTE		*HOLLAND GULCH, ID
1321	SNAKE R	HENRY'S FORK	SAND CK	FREMONT		BISHOP MTN, ID
1322	OWYHEE R	MFK OWYHEE R	CHERRY CK	OWYHEE	TAR	CLIFFS, ID
1323	MFK CLEARWATER	SELWAY R	WHITE CAP CK	IDAHO	BIT	TIN CUP LAKE, ID-MT
1324	MFK SALMON	CAMAS CK	WHITE GOAT CK	LEMHI	CHA	TWIN PEAKS, ID
1325	MFK CLEARWA	LOCHSA R	WHITE SAND CK	IDAHO	CLE	WHITE SAND L PGND-ID
1326	SNAKE R	MFK CLEARWATER	LOCHSA R	IDAHO	CLE	ROCKY POINT, ID
1327	CLEARWATER R	MFK CLEARWATER	LOCHSA R	IDAHO	CLE	CAYUSE JCT., ID
1328	SALMON R	CROOKED C	LAKE CK	IDAHO	NEZ	NORTH PCLE, ID
1329	BIG LOST R	MFK BIG LOST R	WILDHORSE CK	CUSTER	CHA	*PHI KAPPA MTN, ID
1330	MFK CLEARWATER	LOCHSA R	CROOKED FK	IDAHO	CLE	RHODES PEAK, ID-MONT
1331	ROCK CK	COTTONWOOD CK	NFK COTTONWOOD	TWIN FALLS	SAM	MC MULLEN BASIN, ID
1332	SALMON R	LAKE CK	LAKE CK	LEMHI	SAL	SALMON, ID
1333	MFK CLEARWA	LOCHSA R	CROOKED FK	CLEARWATER	CLE	RHODES PEAK, ID-MCN
1334	MFK PAYETTE	CASCADE R	WILLOW CK	VALLEY		SMITH'S FERRY, ID
1335	BRUNEAU R	JARBRIDGE CK	COLUMBET CK	OWYHEE		DISHPAN, ID

A-54

STATISTICAL ANALYSIS SYSTEM

16:34 THURSDAY, FEBRUARY 10, 1983

OBS	NAME	SECTION	TOWNSHIP	RANGE	LONGTUDE	LATITUDE	BASIN_NO	ACREAGE
1336	WILSON LAKE	16	T21N	R16E	114 35 15	45 08 30	6	5.6
1337	WILSON LAKE RES	19	T09S	R20E	114 08 00	42 37 00	9	484.0
1338	WINCHESTER (LAPWAI)	06	T33N	R02W	116 37 15	46 14 00	5	94.0
1339	WIND BUTTE LKS (2E)	32	T02S	R03E	116 07 30	43 12 30	8	2.0
1340	WIND LAKES (B)	08	T35N	R14E	114 44 30	46 23 15	5	41.4
1341	WINDER RES	22	T14S	R39E	111 52 30	42 14 00	11	94.0
1342	WINDOW LAKE	18	T06N	R17E	114 30 30	43 51 20	9	5.1
1343	WINDY LAKE	25	T05N	R20E	114 02 30	43 44 20	9	7.0
1344	WINIFRED LAKE		T21N	R02W	116 35 00	45 09 00	7	0.5
1345	WIREGRASS RES (E)	12	T11S	R36E	112 12 00	42 29 00	9	6.0
1346	WISEBOY LAKES (2)	34	T27N	R06E	115 42 00	45 37 30	5	20.0
1347	WOOD LAKE	18	T33N	R10E	115 15 10	46 12 30	5	1.0
1348	WOODTICK LAKE	11	T17N	R15E	114 40 15	44 46 30	6	6.0
1349	WORM LAKE	04	T15S	R42E	111 32 45	42 08 30	11	4.0
1350	YELLOW BELLY LAKE	24	T08N	R13E	114 52 30	44 00 00	6	170.0
1351	YELLOWJACKET LAKE	14	T20N	R16E	114 33 00	45 04 00	6	8.0
1352	PENNY LAKE		T04N	R17E	114 25 00	43 41 20	9	0.4
1353	DGLLAR LAKE		T04N	R17E	114 25 00	43 41 20	9	0.4

OBS	BASIN1	BASIN2	BASIN3	COUNTY	NATFORST	MAPNAME
1336	SALMON R	MFK SALMON R	WILSON CK	LEMHI	SAL	MT MCGUIRE, ID
1337	N THIN FALL			JEROME		*EDEN, ID
1338	CLEARWATER R	LAPWAI CK		LEWIS		*WINCHESTER EAST, ID
1339	SNAKE R	RABBIT CK		ADA		BIG FOOT BUTTE, ID
1340	MFK CLEARWATER	LOCHSA R	WARM SPRINGS	IDAHO	CLE	*GRAVE PEAK, ID
1341	BEAR R	BATTLE CK		FRANKLIN		*BANIDA, ID
1342	MALAD R	MFK BIG WCCD R	CK N/N	BLAINE	SAW	EASLEY HOT SPRINGS
1343	MALAD R	LIT WOOD R	BRCKY CANYON	BLAINE	SAW	GRAYS PEAK, ID
1344	SNAKE R	INDIAN CK		ADM-ADAMS	PAY	CUPRUM, ID-ORE
1345	PORTNEUF R	MARSH CK		BANNOCK		DOWNNEY WEST, ID
1346	MFK CLEARWATER	TENMILE CK	WISEBOY CK	IDAHO	NEZ	NORTH POLE, ID
1347	MFK CLEARWATER	LOCHSA R	OLD MAN CK	IDAHO	CLE	CHIMNEY PEAK, ID
1348	MFK SALMON	CAMAS CK	WOODTICK CK	LEMHI	CHA	SLEEPING DEER MTN. ID
1349	BEAR R	BEAR L OUTL	WORM CK	BEAR LAKE	CAR	PARIS PEAK, ID
1350	SALMON R			CUSTER	SAW	*ALTURAS LAKE
1351	MFK SALMON	CAMAS CK	YELLOWJACK CK	LEMHI	SAL	HOODOO MEADOWS, ID
1352	MALAD R	BIG WCCD R	WARM SPRS CK	BLAINE	SAW	GRIFFIN BUTTE, ID
1353	MALAD R	BIG WOOD R	WARM SPRS CK	BLAINE	SAW	GRIFFIN BUTTE, ID

A-55

Table A-3. "Working List" of Lakes.

L A K E	S E C	T O W N S H I P	R A N G E	C I T Y	L A T I T U D E			L O N G I T U D E			B A S I N	E L E V
ALTURAS LAKE	20	T07N	R14E	7	43	55	00	114	51	35	6	7016
AMERICAN FALLS RES	30	T07S	R31E	39	42	50	00	112	50	00	9	4354
ANDERSON RANCH RES	31	T01N	R09E	20	43	23	30	115	25	00	8	4196
ARROWROCK RES.	18	T03N	R05E	20	43	35	30	115	29	30	8	3216
ASHTCN RES	27	TC9N	R42E	22	44	06	00	111	29	30	9	5154
ATWATER LAKE	25	T39N	R03W	29	46	41	30	116	38	30	5	2200
BALDY LAKE	22	T23N	R02W	25	45	15	00	116	34	15	7	7190
BASIN LAKE	11	T23N	R02W	25	45	20	45	116	33	30	7	7700
BAYHORSE LAKE	36	T13N	R17E	19	44	24	45	114	24	00	6	8584
BEAR LAKE	17	T15S	R44E	4	42	05	00	111	20	00	11	5923
BEAR LAKE	24	T26N	R06E	25	45	34	45	115	39	30	6	7395
BENEWAH LAKE	11	T46N	R03W	5	47	21	30	116	41	30	3	2142
BLACK CANYON RES	22	T07N	R01W	23	43	56	00	116	24	00	8	2494
BLACKFLCT RES	12	T06S	R41E	15	42	55	00	111	36	00	9	6111
BLLE LAKE	21	T57N	R04W	9	48	16	30	116	49	45	2	2238
BRCWNLEE RES	22	T17N	R05W	44	44	46	00	116	55	00	7	2070
BRLNCAGE RES	30	T20N	R03E	2	45	02	40	116	07	30	6	6218
C J STRIKL RES	34	T05S	R04E	37	42	57	00	115	35	00	8	2455
CAMAS RES, LITTLE	09	T01S	R09E	20	43	20	45	115	22	30	8	4924
CAPE HORN LAKES (3)	01	T12N	R11E	19	44	24	45	115	07	45	6	6600
CASCADE RES	34	T14N	R03E	43	44	35	00	116	05	00	8	4828
CAVE LAKE	32	T48N	R02W	28	47	27	30	116	37	00	3	2140
CEDAR CREEK RES	12	T14S	R13E	42	42	12	30	114	53	00	9	5225
CHATCLET LAKE	05	T46N	R03W	5	47	22	00	116	45	00	3	2125
COCOLALLA LAKE	07	T55N	R02W	9	48	07	30	116	37	30	2	2203
CCEUR D'ALENE LAKE	23	T50N	R04W	28	47	40	00	116	45	00	3	2125
CCPENHAGEN LAKE (E)	05	T13S	R42E	4	42	19	00	111	33	30	11	8260
CRANE CREEK RES	19	T12N	R02W	44	44	22	00	116	35	00	8	3151
CRYSTAL LAKE	35	T27N	R06E	25	45	37	30	115	41	00	6	7315
CRYSTAL LAKE	31	T47N	R01E	5	47	22	30	116	22	45	3	5500
DEADWOOD RES	17	T11N	R07E	43	44	19	30	115	40	00	8	5311
DIERKES LAKE	31	T09S	R18E	42	42	35	45	114	23	00	9	3645
DWCRSHAK RES	35	T37N	R01E	18	46	30	00	116	15	00	5	1600
ECHO LAKE	15	T23N	R02W	25	45	15	45	116	34	00	7	7250
EDNA LAKE	31	T07N	R13E	8	43	57	58	114	59	45	8	8404
ELKHORN RES (E)	01	T13S	R34E	36	42	18	15	112	25	15	11	5040
EMERALD LAKE	27	T22N	R02W	2	45	13	00	116	34	15	7	6770
FERNAN LAKE	17	T50N	R03W	28	47	40	30	116	43	30	3	2150
FISH LAKE	26	T24N	R09E	25	45	23	00	116	19	00	6	7128
FRASER RES (E)	29	T03S	R05E	20	43	05	30	115	52	30	8	3112
GOAT LAKE	04	T38N	R13E	18	46	35	30	114	49	15	5	6492
GCCSE CK RES, LLWER	25	T14S	R21E	16	42	11	00	113	56	00	9	4704
GCCSE LAKE	14	T20N	R02E	2	45	05	00	116	10	10	6	6362
GRANITE CK RES	22	T02N	R42E	10	43	28	45	111	29	45	10	5580
HARRISON LAKE	36	T62N	R03W	11	48	41	00	116	39	00	2	6182
HALSER LAKE	07	T51N	R05W	28	47	46	00	117	01	00	3	2185
HAYDEN LAKE	16	T51N	R03W	28	47	46	00	116	42	30	3	2238
FELLS CANYON RES	21	T22N	R03W	2	45	13	00	116	42	30	7	1688
HENRY'S LAKE	26	T15N	R43E	22	44	37	30	111	22	30	9	6472

Table A-3. "Working List" of Lakes (continued).

L A K E	S E C	T O W N S H I P	R A N G E	C Y	L A T I T U D E				L O N G I T U D E			B A S I N		E L E V
HERMAN LAKE	27	T62N	R03E	11	48	41	30	116	04	00	1	24	81	
HIDDEN LAKE	30	T35N	R16E	25	46	21	00	114	31	00	5	58	05	
HIDDEN LAKE	20	T64N	R03W	11	48	53	00	116	45	15	1	54	43	
HCCDDO LAKE	03	T54N	R04W	9	48	03	00	116	49	00	2	21	44	
HUMP LAKE	02	T26N	R06E	25	45	37	00	115	41	30	6	78	50	
ICEHOUSE CK RES	15	T13N	R41E	22	44	27	15	111	36	00	9	64	53	
ISLAND PARK RES	32	T13N	R42E	22	44	24	00	111	30	00	9	63	02	
JACKS CREEK RES	30	T11S	R03E	37	42	26	30	116	08	00	8	57	30	
JUNIPER BASIN RES	09	T16S	R01W	37	42	02	30	116	27	30	8	50	42	
KERR LAKE	12	T61N	R05W	9	48	38	45	116	26	00	2	26	30	
KERR LAKE	14	T64N	R01W	11	48	54	00	116	26	00	1	17	47	
LAPWAI L (WINCHESTER)	06	T33N	R02W	31	46	14	00	116	37	15	5	39	02	
LCST VALLEY RES	28	T19N	R01W	2	44	57	58	116	27	30	8	47	59	
LOWELL LAKE	19	T03N	R03W	14	43	33	00	116	40	00	7	25	31	
LOWER GRANITE RES	36	T36N	R06W	35	46	25	30	117	02	30	8	7	30	
LUCKY PEAK RES	11	T02N	R03E	1	43	32	00	116	03	00	8	30	60	
MACKAY RES	12	T07N	R23E	19	43	37	00	113	42	00	9	60	60	
MAGIC RES	18	T02S	R18E	7	43	16	00	114	22	05	9	4	97	
MANN CK RES	11	T12N	R05W	44	44	23	30	116	54	00	8	30	61	
MANN LAKE	17	T35N	R04W	35	46	22	30	116	51	30	5	18	10	
MCARTHUR LAKE	27	T60N	R01W	11	48	31	00	116	27	00	1	20	85	
MILNER LAKE	29	T10S	R21E	42	42	31	30	114	00	00	9	4	34	
MINER LAKE	23	T05N	R15E	7	43	45	30	114	40	00	9	8	70	
MOOSE CREEK RES	26	T41N	R01W	29	46	52	30	116	25	00	5	28	83	
MCOUNTAIN HCME RES	19	T03S	R07E	20	43	09	30	113	39	30	8	3	83	
MUD LAKE	01	T06N	R34E	26	41	52	30	112	22	30	9	4	77	
MLRTAUGH LAKE	18	T11S	R20E	42	42	27	45	114	08	00	9	4	12	
MYRTLE LAKE	05	T62N	R02W	11	48	45	00	116	37	30	1	5	94	
CNEIDA NARROWS RES	23	T13S	R40E	21	42	17	30	111	43	00	11	4	88	
UXBOW RES	21	T19N	R04W	2	44	56	30	116	50	00	7	1	80	
PALISADES RES	17	T01S	R45E	10	43	17	00	111	08	00	10	5	62	
PALISADES, LCWER	09	T01N	R45E	10	43	26	00	111	09	00	10	6	13	
PALISADES, UPPER	02	T01N	R45E	10	43	26	30	111	07	30	10	6	63	
PAYETTE LAKE	08	T18N	R03E	43	44	57	30	116	05	00	8	4	86	
PAYETTE LAKE, UPPER	36	T21N	R03E	43	45	07	30	116	01	30	8	5	55	
PEND OREILLE, LAKE	21	T56N	R01E	9	48	07	30	116	28	00	2	2	63	
PERKINS LAKE	05	T62N	R03E	11	48	45	30	116	05	30	1	2	63	
PETIT LAKE	36	T08N	R13E	7	41	58	45	114	52	30	6	6	96	
PORTNEUF RES	24	T06S	R38E	15	44	54	00	112	38	00	9	5	39	
PRIEST L, LCWER	09	T60N	R04W	9	48	31	00	116	51	00	2	2	43	
PRIEST L, UPPER	29	T63N	R04W	9	48	46	00	116	52	30	2	2	43	
REDFISH LAKE	03	T09N	R13E	19	44	07	00	114	56	00	6	6	54	
RIRIE RES	22	T03N	R40E	10	43	32	00	111	44	00	9	5	00	
ROSE LAKE	33	T49N	R01W	28	47	33	30	116	28	00	3	2	11	
RCUND LAKE	36	T56N	R03W	9	47	05	45	116	38	00	2	2	12	
SALMON FALLS RES	02	T10S	R13E	42	42	35	00	114	54	00	9	3	40	
SAMARIA LAKE	24	T15S	R35E	36	44	07	00	112	19	00	11	4	39	
SEVEN DEVILS LAKE	12	T23N	R02W	25	44	20	45	116	31	00	6	7	56	
SHEEP CK RES	14	T13N	R42E	22	44	27	00	111	28	30	9	6	35	

Table A-3. "Working List" of Lakes (continued).

L A K E	S E C	T O W N S H I P	R A N G E	C T Y	L A T I T U D E	L O N G I T U D	B A S I N	E L E V		
SILVER LAKE	35	T12N	R42E	22	44 20	00	111	28 00	9	6119
SODA POINT RES	17	T09S	R41E	15	42 39	00	111	40 00	11	5719
SOLDIERS MEADOW RES	29	T33N	R03W	35	46 09	30	116	44 00	5	4522
SPIRIT LAKE	18	T53N	R04W	28	47 56	30	116	53 00	3	2440
SPRING VALLEY RES	30	T40N	R03W	29	46 48	30	115	45 30	5	3000
STANLEY LAKE	33	T11N	R12E	19	43 14	30	115	03 00	6	6513
STEVENS L, LOWER	12	T47N	R05E	40	47 26	00	115	45 30	3	5553
STEVENS L, UPPER	12	T47N	R05E	40	47 26	00	115	45 30	3	5700
SWAN FALLS	18	T02S	R01E	1	43 14	30	116	23 00	8	2314
SWAN LAKE	14	T46N	R02W	5	47 20	00	116	34 00	3	2135
TOLC LAKE	29	T30N	R02E	25	45 55	00	116	14 00	6	3232
TRINITY LAKE, BIG	06	T03N	R09E	20	43 37	30	115	26 00	8	7750
TURTLE LAKE	17	T46N	R01W	5	47 20	30	116	29 30	3	2188
TWIN LAKES	01	T52N	R05W	28	47 53	00	116	55 00	3	2306
TWIN LAKES RES	04	T02S	R14E	13	43 15	00	114	49 00	9	5043
TWIN LAKES RES	25	T14S	R38E	21	42 12	00	111	57 40	11	4763
WAHA LAKE	16	T33N	R04W	35	46 12	30	116	50 00	5	3389
WALCOTT LAKE	01	T09S	R25E	7	42 40	00	113	24 00	9	4195
WALTON LAKES (2)	28	T36N	R14E	25	46 26	30	114	42 30	5	6197
WARM LAKE	12	T15N	R06E	43	44 38	30	115	40 00	6	5258
WILLIAMS LAKE	34	T19N	R21E	30	45 01	00	113	58 30	6	5252
WILLIAMS LAKE	11	T38N	R13E	18	46 39	00	114	47 30	5	6647
WILSON LAKE RES	19	T09S	R20E	27	42 37	00	114	08 00	9	4012
WINCHESTER (LAPWAI)	06	T33N	R02W	31	46 14	00	116	37 15	5	3902
WOOD RIV. RES, LIT.	02	T01N	R20E	7	43 26	30	114	02 30	9	5235

Table A-4. Schedule of lake visits for sampling lakes of the study population.

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Period 1

Late June to Mid July (June 26-July 10)

(Note: lakes are arranged according to sampling field trips.  
One to three sampling teams worked per interval)

Hells Canyon Res.	Payette Lake	Anderson Ranch Res.
Oxbow Res.	Cascade Lake	Arrowrock Res.
Brownlee Res.	Upper Payette Lake	Little Camas Res.
Lower Granite Res.	Black Canyon Res.	Lucky Peak Res.
Lost Valley Res.	Fraser Res.	C. J. Strike Res.
Crane Creek Res.	Mountain Home Res.	Lake Lowell
Mann's Creek Res.	Swan Falls Res.	

Period 2

Early July (July 1-10)

Mormon Res.  
Magic Res.  
Wilson Res.  
Murtaugh Lake  
Milner Lake  
Oakley Res.  
Salmon Falls Creek Res.  
Cedar Creek Res.  
Little Wood Res.

Table A-4. Schedule of lake visits for sampling lakes of the study population (continued).

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Period 3

July 20-July 24

Basin Lake	American Falls Res.	Mackey Res.
Echo Lake	Elkhorn Res.	Oneida Res.
Seven Devils Lake	Samaria Res.	Soda Point Res.
He Devil Lake	Copenhagen Lake	Bear Lake
Bernard Lakes	Twin Lakes	Goose Lake
Gem Lake	Portneuf Res.	Brundage Res.

Period 4

Early to mid August

Mud Lake	Granite Creek Res.	Stanley Lake
Island Park	Lower Palisades Res.	Warm Lake
Henry's Lake	Upper Palisades Res.	Williams Lake
Blackfoot Res.	Palisades Res.	Bayhorse Lake
Ririe Res.	Atwater Lake	Redfish Lake
Gray's Lake	Moose Creek Res.	Alturas Lake
Sheep Creek Res.	Capehorn Lake	Trinity Lake
Ashton Res.	Tolo Lake	Miner Lake
Ice House Creek Res.	Goose Lake	Edna Lake
Silver Lake	Pettit Lake	Deadwood Res.
		Hidden Lake



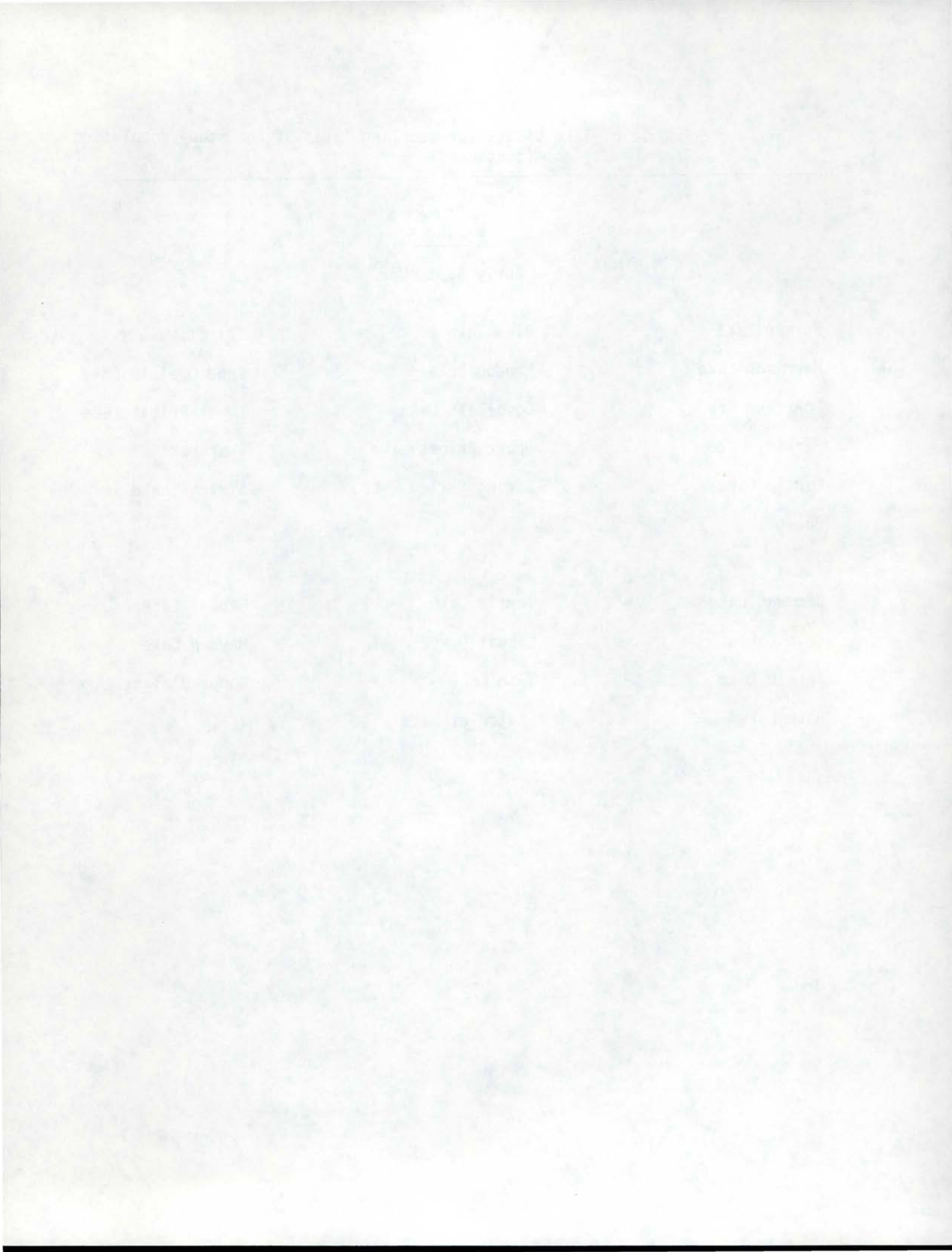
Table A-4. Schedule of lake visits for sampling lakes of the study population (continued).

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Period 5

Early September

Herman Lake	Blue Lake	Spirit Lake
Harrison Lake	Hoodoo Lake	Pend Oreille Lake
McArthur Res.	Cocollala Lake	Lower Priest Lake
Perkins Lake	Upper Priest Lake	Swan Lake
Myrtle Lake	Spring Valley Res.	Stevens Lake
Round L		
Benewah Lake	Turtle Lake	Hauser Lake
Cave Lake	Lapwai Lake	Hayden Lake
Fernan Lake	Twin Lake	Coeur d'Alene Lake
Rose Lake	Chatcolet Lake	



APPENDIX B

Lake and Watershed Data for the 85-Lake Subsample

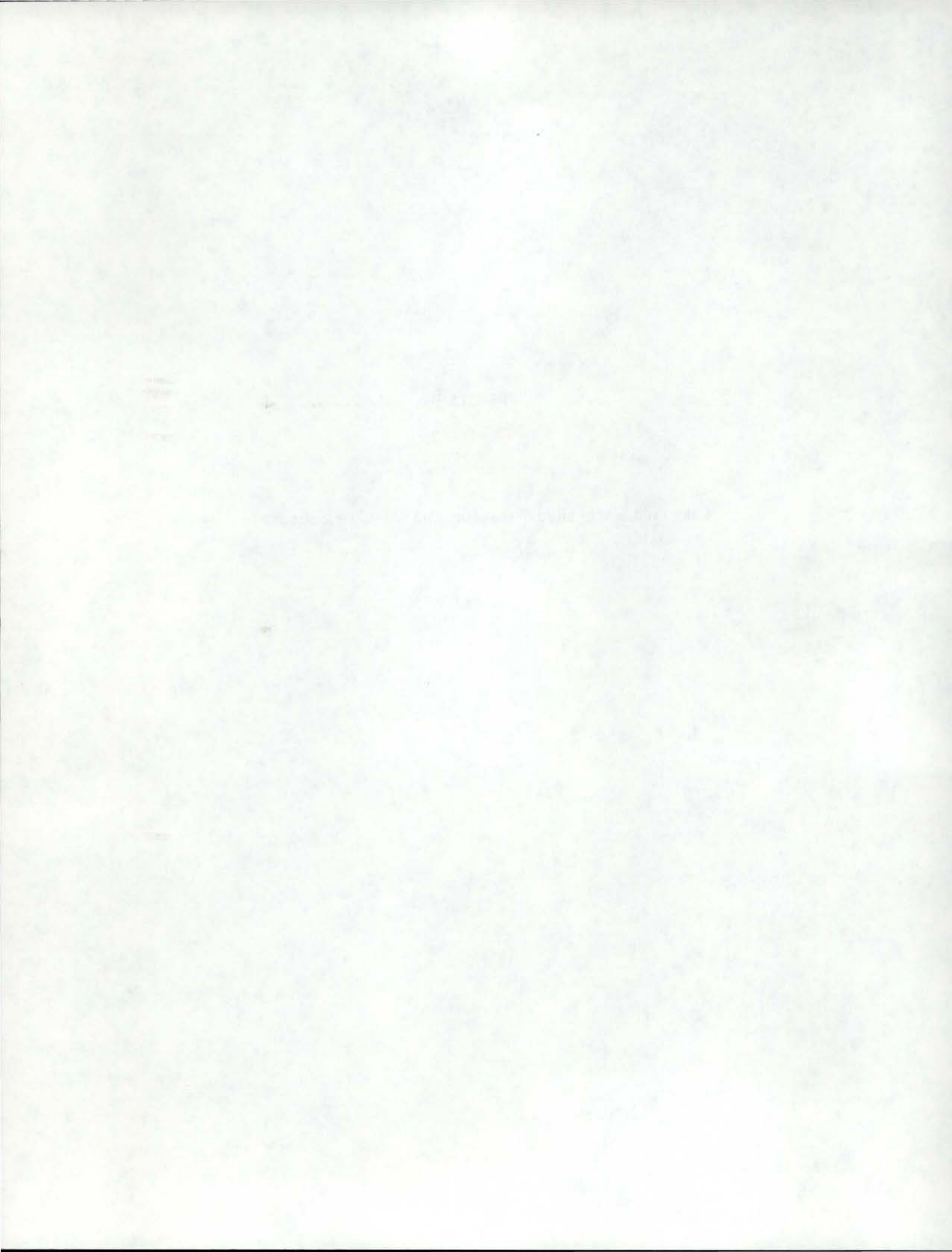


TABLE B-1  
WATER QUALITY/LAKE CHARACTERISTICS

No.	Name (1)	Definition/Units of Measure	Data Source (2)
1.	MAXDEPTH	Maximum depth of lake/meters	pfw
2.	EPIDEPH	Epilimnial depth/meters	pfw
3.	SECCHI	Secchi depth/meters	pfw
4.	EUPHZONE	Euphotic zone/meters	pfw
5.	SHAPE02	Shape code for oxygen profile/(3)	pfw
6.	EPITMPMX	Maximum epilimnial temperature/C°	pfw
7.	EPITMPMN	Mean epilimnial temperature/C°	pfw
8.	HYPO2MIN	Minimum oxygen concentration in hypolimnion/mg. per litre	pfw
9.	HYPO2MEN	Mean oxygen concentration in hypolimnion/mg. per litre	pfw
10.	H2SHYPO	Presence of H <sub>2</sub> S in hypolimnion/1: yes, 2: no	pfw
11.	CHLA	Chlorophyll A concentration/mg/(meter) <sup>3</sup>	pfw
12.	PH	Log of hydrogen ion concentration	pfw
13.	CONDUCT	Conductivity/micro ohms	pfw
14.	TURBID	Turbidity/N.T.U.	pfw
15.	ALKALIN	Alkalinity/mg. per litre	pfw
16.	TSS	Total suspended solids/mg. per litre	pfw
17.	ORGCNT	Organic content/percent	pfw
18.	PTOTAL	Total phosphorus/mg. per litre	pfw
19.	NO3N	Nitrous oxide/mg. per litre	pfw
20.	NH3N	Ammonia concentration/mg. per litre	pfw
21.	TKN	Total Kjeldahl Nitrogen	pfw
22.	TOTCOLIF	Total coliforms/no. per 100 ml.	pfw
23.	FECOLIF	Fecal coliforms/no. per 100 ml.	pfw
24.	COLOR	Code for color/platinum units	pfw
25.	ODOR	Code for odor/T.O.S. (4)	pfw
26.	NTOTAL	Total nitrogen/mg. per litre	pfw
27.	NP	Nitrogen - phosphorus ratio	pfw
28.	ELEV	Elevation lake surface/feet	USGS Topo Maps
29.	AREAAC	Area lake surface/acres	pfw & USGS Topo Maps
30.	AREASQ	Area lake surface/sq. meters	pfw & USGS Topo Maps
31.	SHOREM	Shoreline length of lake/meters	pfw & USGS Topo Maps
32.	SHOREIDX	Ratio of shore to circumference of circle with same area as lake surface.	pfw & USGS Topo Maps
33.	VOLUME	Volume of lake/cubic meters	pfw & USGS Topo Maps

Notes:

1. Name given here may be abbreviated elsewhere in report.
2. pfw is abbreviation for project field work.
3. Shape code is as follows: (02 profile with 7 classes)

Class	Code
Orthograde	1
Positive orthograde	2
Negative heterograde	3
Weak positive heterograde	4
Positive heterograde	5
Weak clinograde	6
Clinograde	7
4. Threshold odor number defined as an index of the greatest dilution of sample with odor free water yielding a definite perceptible odor.

Table B-1. Water Quality/Lake Characteristics

	MAXDEPTH	EPIDDEPTH	SECCHI	EUPHZONE	SHAPE02	EPITMPMX	EPITMPMN
MACARTHUR L	2.7	2.7	1.3	3.5	1.	1.85E+01	1.85E+01
MYRTLE L	NA	NA	NA	NA	NA	1.30E+01	NA
PERKINS L	5.5	1.5	3.9	1.05E+01	7.	1.88E+01	1.80E+01
COCOLALLA L	1.36E+01	1.36E+01	0.9	2.4	1.	1.71E+01	1.65E+01
HOODOO L	1.2	1.2	1.2	3.2	1.	1.03E+01	1.03E+01
LOWER PRIEST L	1.02E+02	4.	5.5	1.49E+01	1.	2.25E+01	1.67E+01
LAKE PEND OREILLE	3.51E+02	1.50E+01	9.	2.43E+01	1.	1.80E+01	1.65E+01
ROUND L	1.03E+01	5.	2.5	6.8	7.	1.43E+01	1.41E+01
SPIRIT LAKE	2.88E+01	8.	4.2	1.13E+01	7.	1.65E+01	1.61E+01
UPPER PRIEST L	2.94E+01	4.	6.	1.62E+01	1.	1.70E+01	1.12E+01
BENEWAH L	4.2	4.2	1.8	4.9	1.	1.01E+01	9.7
CAVE L	5.5	5.5	2.7	7.3	1.	1.13E+01	1.14E+01
LAKE CHATCOLET	1.12E+01	1.12E+01	1.5	4.1	1.	1.14E+01	1.14E+01
LAKE COEUR D'ALENE	5.49E+01	2.20E+01	5.	1.35E+01	6.	1.33E+01	1.33E+01
FERNAN L	7.6	7.6	3.	8.1	1.	2.01E+01	1.93E+01
HAUSER L	1.21E+01	5.5	5.2	1.40E+01	7.	2.04E+01	1.96E+01
HAYDEN L	5.42E+01	1.00E+01	1.27E+01	3.43E+01	1.	1.94E+01	1.93E+01
ROSE L	5.2	5.2	1.3	3.5	1.	1.63E+01	1.64E+01
STEVENS L	NA	NA	NA	NA	NA	NA	NA
SWAN LAKE	8.	5.	0.1	0.2	NA	NA	NA
TWIN LAKES LOWER L	1.83E+01	1.83E+01	2.5	6.8	1.	1.63E+01	1.62E+01
TWIN LAKES UPPER L	4.2	4.2	4.	1.08E+01	1.	1.61E+01	1.60E+01
DWORSHAK RES	1.92E+02	5.	7.6	2.05E+01	6.	2.41E+01	2.26E+01
MANN'S LAKE	1.50E+01	3.	2.7	7.3	7.	2.40E+01	2.32E+01
MOOSE CREEK R	4.2	4.2	2.4	4.2	NA	2.70E+01	2.46E+01
SOLDIERS MEADOW R	1.39E+01	3.	3.3	8.9	3.	2.16E+01	2.05E+01
LAKE WAHA	3.30E+01	3.	1.4	3.8	3.	2.30E+01	2.13E+01
WINCHESTER L	9.5	2.	1.2	3.2	1.	2.80E+01	2.63E+01
ALTURAS L	5.15E+01	7.	1.30E+01	3.51E+01	4.	1.73E+01	1.72E+01
BAYHORSE L	7.	3.	5.5	1.49E+01	7.	1.73E+01	1.69E+01
GOOSE LAKE	7.3	3.5	6.4	1.73E+01	1.	2.10E+01	1.98E+01
PETIT L	NA	NA	NA	NA	1.	1.80E+01	1.70E+01
REDFISH L	9.00E+01	6.	1.40E+01	3.78E+01	1.	1.79E+01	1.77E+01
SEVEN DEVILS L	6.4	6.4	6.4	1.73E+01	5.	1.68E+01	1.64E+01
STANLEY L	2.50E+01	7.	1.10E+01	2.97E+01	4.	1.77E+01	1.70E+01
TOLO L	1.3	1.3	C.3	0.8	1.	1.98E+01	1.72E+01
WARM L	2.55E+01	4.8	5.	1.35E+01	7.	1.98E+01	1.97E+01
WILLIAMS LAKE	5.60E+01	6.	3.	8.1	7.	2.10E+01	2.00E+01
BASIN L	1.15E+01	3.	1.10E+01	2.97E+01	5.	1.60E+01	1.52E+01
BROWNLEE R	8.44E+01	2.00E+01	3.	8.1	7.	2.49E+01	2.42E+01
ECHO L	1.12E+01	4.	1.00E+01	1.12E+01	3.	1.78E+01	1.63E+01
GEM L	2.45E+01	4.	1.35E+01	3.65E+01	5.	1.53E+01	1.47E+01
HEDEVIL L	5.8	5.8	5.8	1.57E+01	1.	2.04E+01	1.96E+01
HELLS CANYON R	6.49E+01	6.49E+01	1.8	4.9	7.	2.34E+01	2.32E+01
LCWER BERNARD L	8.2	2.5	7.8	8.2	5.	2.04E+01	1.90E+01
OXBOW RES	3.81E+01	3.81E+01	3.2	8.6	7.	2.17E+01	2.10E+01
SHELF L	1.21E+01	4.	1.13E+01	3.05E+01	5.	1.64E+01	1.58E+01

Table B-1. Water Quality/Lake Characteristics (Continued)

	HYPO2MIN	HYPO2MEN	H2SHYPO	CHLA	PH	CONDUCT	TURBID
MACARTHUR L	6.1	6.5	2.	1.49E+01	8.15	1.00E+02	4.70E+01
MYRTLE L	NA	NA	2.	1.55	6.2	2.00E+01	0.44
PERKINS L	0.	0.	2.	7.16	6.55	8.00E+01	1.20E+01
COCOLALLA L	5.	4.9	2.	4.46E+01	6.3	5.50E+01	6.5
HUGGDO L	6.9	6.9	1.	5.62	7.5	3.72E+02	1.3
LOWER PRIEST L	6.8	6.8	2.	2.63	6.99	3.80E+01	0.66
LAKE PEND OREILLE	1.10E+01	1.11E+01	2.	1.45	7.42	1.14E+02	0.4
ROUND L	0.	0.	2.	1.73E+01	7.65	6.80E+01	2.9
SPIRIT LAKE	0.6	1.55	2.	3.5	6.43	2.00E+01	1.5
UPPER PRIEST L	1.10E+01	1.10E+01	2.	3.13	7.22	7.00E+01	0.5
BENEWAH L	6.8	6.5	2.	1.15E+01	7.1	5.10E+01	3.6
CAVE L	7.1	7.1	2.	8.97	6.9	5.00E+01	3.5
LAKE CHATCLET	6.4	6.3	2.	7.08	7.1	5.10E+01	3.2
LAKE COEUR D'ALENE	4.	4.83	2.	4.94	6.9	5.00E+01	1.
FERNAN L	5.9	5.9	2.	4.23	6.43	3.90E+01	1.3
HAUSER L	0.	0.2	2.	4.85	6.65	4.50E+01	0.8
HAYDEN L	7.1	7.78	2.	1.01	7.	5.00E+01	0.7
ROSE L	4.15	4.2	2.	3.07E+01	6.51	4.00E+01	6.25
STEVENS L	NA	8.	2.	1.68	7.05	5.10E+01	0.39
SWAN LAKE	NA	2.	1.	3.85E+01	7.9	1.18E+02	2.40E+01
TWIN LAKES LOWER L	1.6	3.5	2.	6.84	6.37	2.10E+01	0.8
TWIN LAKES UPPER L	6.	6.1	2.	3.93	6.23	2.20E+01	1.
DWORSHAK RES	5.8	7.7	1.	4.4	8.	3.00E+01	0.8
HANN'S LAKE	5.3	6.8	2.	1.2	7.5	1.24E+02	1.10E+01
MOOSE CREEK R	5.	3.	2.	3.71	7.9	4.00E+01	1.3
SOLDIERS MEADOW R	1.1	5.9	2.	1.5	7.	6.30E+01	1.30E+01
LAKE WAFA	1.6	7.6	2.	1.99E+01	7.6	7.70E+01	1.40E+01
WINCHESTER L	0.3	1.03E+01	2.	3.29E+01	9.05	1.25E+02	4.3
ALTURAS L	4.3	6.41	2.	0.	6.31	4.90E+01	0.32
BAYHORSE L	1.3	2.07	2.	2.59	6.99	4.00E+01	0.65
GOOSE LAKE	1.20E+01	9.	2.	2.	6.2	1.60E+01	0.63
PETIT L	1.80E+01	6.	2.	2.	6.2	2.20E+01	0.33
REDFISH L	7.	7.74	2.	0.	6.22	2.80E+01	0.34
SEVEN DEVILS L	5.3	6.5	2.	1.54	6.4	1.80E+01	0.4
STANLEY L	2.6	4.78	2.	0.	6.49	3.80E+01	0.45
TULO L	5.8	5.8	2.	3.28	8.05	3.75E+02	5.20E+01
WARM L	0.05	2.06	2.	0.	7.1	4.60E+01	1.1
WILLIAMS LAKE	0.	1.5	2.	5.	8.	1.08E+02	5.
BASIN L	7.4	8.1	2.	1.34	6.69	3.80E+01	0.3
BROWNLEE R	0.6	0.8	2.	5.83	9.13	2.48E+02	0.6
ECHO L	7.7	7.9	2.	0.05	6.2	1.80E+01	0.3
GEH L	3.	6.93	2.	0.88	6.4	1.80E+01	0.5
HEDEVIL L	8.1	8.3	2.	5.86	6.15	1.20E+01	0.4
HELLS CANYON R	6.8	7.	2.	1.00E+01	9.17	2.35E+02	0.5
LOWER BERNARD L	9.	9.23	2.	1.39	6.59	2.80E+01	0.4
OXBOW RES	2.8	3.	2.	1.00E+01	8.9	2.30E+02	0.7
SHELF L	0.6	1.09E+01	2.	0.98	6.1	2.20E+01	0.4

B-3

Table B-1. Water Quality/Lake Characteristics (Continued)

	ALKALIN	TSS	CRGCONT	PTOTAL	NO3N	NH3N	TKN
MACARTHUR L	7.49E+01	8.6	0.	0.057	0.02	0.01	0.1
MYRTLE L	5.76	1.4	0.	0.004	0.02	0.005	0.1
PERKINS L	5.18E+01	1.	0.	0.018	0.02	0.01	0.
COCOLALLA L	2.11E+01	5.4	0.	0.035	0.02	0.01	0.1
HOODOO L	9.12E+01	1.	0.	0.03	0.02	0.593	0.3
LOWER PRIEST L	1.92E+01	0.8	0.8	0.004	0.02	0.081	0.2
LAKE PEND OREILLE	7.10E+01	2.2	0.	0.008	0.02	0.05	0.3
ROUND L	2.88E+01	3.	0.	0.024	0.02	0.03	0.1
SPIRIT LAKE	8.64	7.	0.	0.018	0.02	0.49	0.
UPPER PRIEST L	4.13E+01	0.8	0.8	0.006	0.068	0.09	0.1
BENEWAH L	2.50E+01	5.6	4.	0.038	0.02	0.92	0.3
CAVE L	1.73E+01	4.4	3.	0.035	0.02	0.35	0.1
LAKE CHATCOLET	2.50E+01	5.2	3.8	0.04	0.02	0.01	0.
LAKE COEUR D'ALENE	2.06E+01	2.3	2.3	0.018	0.02	0.02	0.1
FERNAN L	1.34E+01	6.	0.	0.029	0.02	0.21	0.1
HAUSER L	1.92E+01	8.8	0.6	0.015	0.02	0.03	0.2
HAYDEN L	2.50E+01	2.8	0.	0.042	0.02	0.02	0.1
ROSE L	1.34E+01	3.8	2.	0.032	0.02	0.116	0.4
STEVENS L	2.92E+01	2.2	0.	0.004	0.02	0.005	0.1
SWAN LAKE	5.76E+01	9.20E+01	2.48E+01	0.239	0.02	0.2	0.5
TWIN LAKES LOWER L	1.15E+01	2.8	0.	0.015	0.02	0.04	0.2
TWIN LAKES UPPER L	1.15E+01	1.6	0.	0.023	0.02	0.04	0.3
DWORSHAK RES	1.50E+01	2.	2.	0.021	0.022	0.03	0.2
MANN'S LAKE	5.39E+01	5.	3.9	0.15	0.21	0.12	1.5
MOOSE CREEK R	1.82E+01	0.6	0.6	0.05	0.02	0.1	0.1
SOLDIERS MEADOW R	2.74E+01	5.4	1.8	0.08	0.19	0.16	0.8
LAKE WAHA	3.08E+01	6.6	5.1	0.11	0.23	0.13	0.7
WINCHESTER L	6.76E+01	1.36E+01	8.	0.062	0.02	0.005	0.2
ALTURAS L	1.92E+01	0.6	1.	0.009	0.04	0.005	0.1
BAYHORSE L	2.11E+01	1.	0.	0.015	0.02	0.05	0.
GOOSE LAKE	3.84	0.5	0.5	0.019	0.02	0.03	0.3
PETIT L	6.72	1.6	0.	0.016	0.02	0.005	0.1
REDFISH L	7.68	1.4	0.	0.004	0.02	0.03	0.1
SEVEN DEVILS L	3.84	3.	1.8	0.017	0.02	0.005	0.1
STANLEY L	1.73E+01	1.	0.	0.011	0.02	0.05	0.1
TOLO L	2.38E+02	4.36E+01	2.4	1.951	0.02	0.01	0.2
WARM L	2.30E+01	0.6	0.	0.01	0.02	0.005	0.1
WILLIAMS LAKE	5.03E+01	4.	2.5	0.07	0.05	0.04	0.6
BASIN L	9.6	0.8	0.5	0.017	0.02	0.005	0.1
BROWNLEE R	1.15E+02	1.	6.	0.034	0.23	0.07	0.2
ECHG L	0.96	0.	1.8	0.006	0.02	0.005	0.1
GEM L	1.92E+01	0.8	0.5	0.008	0.02	0.005	0.
HEDEVIL L	3.84	2.6	1.	0.017	0.02	0.005	0.1
HELLS CANYON R	1.13E+02	2.8	3.	0.037	0.14	0.03	0.2
LOWER BERNARD L	1.25E+01	1.2	0.5	0.013	0.02	0.005	0.
OXBOW RES	1.11E+02	3.6	4.	0.045	0.25	0.04	0.2
SHELF L	9.6	0.	3.4	0.015	0.02	0.021	0.



Table B-1. Water Quality/Lake Characteristics (Continued)

	TOTCOLIF	FECOLIF	COLOR	ODOR	NTOTAL	NP	ELEV
MACARTHUR L	0.	0.	2.00E+01	0.	0.14	2.5	2.08E+03
MYRTLE L	0.	0.	5.	0.	0.15	3.75E+01	5.95E+03
PERKINS L	0.	0.	1.00E+01	0.	0.09	5.	2.63E+03
COCOLALLA L	3.90E+01	0.	1.50E+01	0.	0.19	5.4	2.20E+03
HOODOO L	NA	5.	1.00E+01	0.	0.32	1.07E+01	2.14E+03
LOWER PRIEST L	2.	0.	5.	0.	0.21	5.25E+01	2.44E+03
LAKE PEND OREILLE	6.	0.	5.	0.	0.36	4.50E+01	2.06E+03
ROUND L	0.	0.	1.00E+01	0.	0.17	7.1	2.12E+03
SPIRIT LAKE	1.60E+01	0.	5.	0.	0.08	4.4	2.44E+03
UPPER PRIEST L	0.	0.	5.	0.	0.198	3.30E+01	2.44E+03
BENEWAH L	7.00E+01	0.	1.00E+01	0.	0.37	9.7	2.14E+03
CAVE L	1.10E+01	0.	1.50E+01	0.	0.14	4.	2.14E+03
LAKE CHATCOLET	1.50E+01	0.	1.00E+01	1.	0.07	1.8	2.12E+03
LAKE COEUR D'ALENE	1.20E+01	0.	5.	0.	0.165	9.2	2.12E+03
FERNAN L	5.	0.	1.00E+01	0.	0.17	5.9	2.15E+03
HAUSER L	0.	0.	2.00E+01	0.	0.27	1.80E+01	2.18E+03
HAYDEN L	1.00E+01	0.	5.	0.	0.19	4.5	2.24E+03
ROSE L	NA	1.	2.50E+01	0.	0.48	1.50E+01	2.12E+03
STEVENS L	1.	0.	5.	0.	0.17	4.25E+01	5.55E+03
SWAN LAKE	0.	3.50E+01	6.00E+01	2.	0.55	2.3	2.13E+03
TWIN LAKES LOWER L	3.00E+01	0.	5.	0.	0.25	1.67E+01	2.31E+03
TWIN LAKES UPPER L	1.90E+01	0.	5.	0.	0.32	1.39E+01	2.31E+03
DWORSHAK RES	1.50E+01	0.	5.	0.	0.222	1.06E+01	1.60E+03
MANN'S LAKE	1.30E+01	5.60E+01	3.00E+01	1.	1.78	1.19E+01	1.81E+03
MOOSE CREEK R	1.00E+01	0.	3.00E+01	0.	0.13	2.6	2.88E+03
SOLDIERS MEADOW R	6.70E+01	2.00E+01	1.00E+01	1.	1.04	1.30E+01	4.52E+03
LAKE WAHA	7.90E+01	6.	2.00E+01	2.	0.94	8.5	3.39E+03
WINCHESTER L	0.	0.	2.50E+01	3.	0.23	3.7	3.90E+03
ALTURAS L	2.70E+01	0.	5.	0.	0.2	2.22E+01	7.02E+03
BAYHORSE L	0.	0.	1.00E+01	0.	0.	0.	8.58E+03
GOOSE LAKE	0.	0.	5.	0.	0.35	1.84E+01	6.36E+03
PETIT L	2.	0.	5.	0.	0.17	1.06E+01	7.00E+03
REDFISH L	0.	0.	5.	0.	0.13	3.25E+01	6.55E+03
SEVEN DEVILS L	0.	1.00E+01	5.	0.	0.15	8.8	7.56E+03
STANLEY L	0.	0.	5.	0.	0.2	1.82E+01	6.51E+03
TCLD L	0.	0.	1.00E+01	1.	0.25	0.1	3.23E+03
WARM L	1.20E+01	1.40E+01	5.	0.	0.12	1.20E+01	5.30E+03
WILLIAMS LAKE	1.40E+01	1.	1.00E+01	0.	0.66	9.4	5.25E+03
BASIN L	0.	0.	5.	0.	0.13	7.6	7.70E+03
BROWNLEE R	0.	0.	5.	3.	0.495	1.46E+01	2.07E+03
ECHO L	5.00E+01	0.	5.	0.	0.2	3.33E+01	7.25E+03
GEM L	0.	0.	5.	0.	0.05	6.3	7.74E+03
HEDEVIL L	0.	0.	5.	0.	0.11	6.5	7.46E+03
HELLS CANYON R	0.	0.	5.	0.	0.42	1.14E+01	1.69E+03
LOWER BERNARD L	0.	0.	5.	0.	0.08	6.2	7.24E+03
OXBOW RES	0.	0.	5.	1.	0.54	1.20E+01	1.80E+03
SHELF L	0.	0.	5.	0.	0.06	4.	7.42E+03

Table B-1. Water Quality/Lake Characteristics (Continued)

	AREAAC	AREASQM	SHOREM	SHOREIDX	VOLUME
MACARTHUR L	1.44E+02	5.83E+05	6.62E+03	2.44616	5.02E+05
MYRTLE L	1.50E+01	6.07E+04	1.19E+03	1.36241	NA
PERKINS L	5.40E+01	2.19E+05	2.37E+03	1.43309	8.89E+05
CUCOLALLA L	8.06E+02	3.26E+06	9.42E+03	1.47127	2.60E+07
HCOODOO L	9.30E+01	3.76E+05	4.56E+03	2.09667	NA
LOWER PRIEST L	2.37E+04	9.58E+07	1.09E+05	3.15525	1.58E+08
LAKE PEND OREILLE	9.46E+04	3.83E+08	3.22E+05	4.64361	1.91E+09
ROUND L	4.60E+01	1.86E+05	3.97E+03	2.59549	NA
SPIRIT LAKE	1.28E+03	5.18E+06	2.11E+04	2.61881	6.52E+07
UPPER PRIEST L	1.35E+03	5.47E+06	1.38E+04	1.67021	7.84E+07
BENEWAH L	3.41E+02	1.38E+06	5.14E+03	1.23446	1.89E+06
CAVE L	7.34E+02	2.97E+06	9.51E+03	1.55631	NA
LAKE CHATCOLET	1.74E+03	7.05E+06	2.02E+04	2.1467	2.84E+07
LAKE COEUR D'ALENE	3.20E+04	1.29E+08	1.95E+05	4.82538	2.94E+08
FERNAN L	3.55E+02	1.44E+06	8.47E+03	1.99333	5.12E+06
HAUSER L	6.04E+02	2.44E+06	6.89E+03	1.24311	1.47E+07
HAYDEN L	4.20E+03	1.70E+07	4.63E+04	3.17059	NA
ROSE L	3.20E+02	1.29E+06	4.79E+03	1.18733	4.23E+06
STEVENS L	1.00E+01	4.05E+04	1.18E+03	1.65458	NA
SWAN LAKE	2.50E+01	NA	NA	NA	NA
TWIN LAKES LOWER L	9.59E+02	1.63E+06	1.21E+04	2.6778	NA
TWIN LAKES UPPER L	9.59E+02	2.25E+06	8.08E+03	1.51914	NA
DWORSHAK RES	1.71E+04	NA	NA	NA	4.26E+09
MANN'S LAKE	1.20E+02	4.86E+05	3.24E+03	1.31148	2.26E+06
MOOSE CREEK R	7.00E+01	2.83E+05	3.50E+03	1.85493	1.35E+05
SOLDIERS MEADOW R	1.20E+02	4.86E+05	6.07E+03	2.457	1.37E+06
LAKE WAHA	9.30E+01	1.87E+05	2.66E+03	1.73027	3.52E+06
WINCHESTER L	9.40E+01	3.80E+05	5.90E+03	2.69834	1.31E+06
ALTURAS L	8.25E+02	3.34E+06	7.98E+03	1.23162	9.57E+07
BAYHORSE L	2.40E+01	9.71E+04	1.17E+03	1.05807	4.58E+05
GOOSE LAKE	3.80E+02	1.51E+06	1.04E+04	2.38798	3.30E+06
PETIT L	3.95E+02	1.60E+06	7.62E+03	1.70118	NA
REDFISH L	1.51E+03	6.10E+06	1.52E+04	1.73618	NA
SEVEN DEVILS L	1.9	5.51E+03	3.00E+02	1.13992	NA
STANLEY L	1.81E+02	7.32E+05	4.06E+03	1.33812	1.13E+07
TOLO L	3.90E+01	1.58E+05	1.49E+03	1.05794	9.18E+04
WARM L	4.45E+02	1.80E+06	6.96E+03	1.46298	1.37E+07
WILLIAMS LAKE	1.83E+02	8.42E+05	5.63E+03	1.73137	2.01E+07
Basin L	5.8	2.35E+04	6.09E+02	1.12127	NA
BROWNLEE R	1.28E+04	5.18E+07	2.03E+05	7.937	2.10E+08
ECHO L	8.7	3.52E+04	7.80E+02	1.17257	1.85E+05
GEM L	1.50E+01	9.05E+04	1.51E+03	1.41949	8.72E+05
HEDEVIL L	4.3	1.93E+04	7.48E+02	1.51804	4.68E+04
HELLS CANYON R	2.50E+03	1.01E+07	2.99E+05	2.65E+01	NA
LOWER BERNARD L	1.10E+01	NA	NA	NA	NA
OXBOW RES	1.50E+03	NA	NA	NA	6.47E+07
SHELF L	8.7	4.71E+04	9.43E+02	1.22572	2.89E+05

Table B-1. Water Quality/Lake Characteristics (Continued)

	MAXDEPTH	EPIDEPTH	SECCHI	EUPHZONE	SHAPEO2	EPITMPMX	EPITMPMN
UPPER BERNARD L	2.7	2.	2.7	7.3	2.	2.11E+01	2.01E+01
ANDERSON RANCH R	3.80E+01	6.	4.2	1.13E+01	7.	2.15E+01	2.11E+01
ARROWROCK R	4.40E+01	4.	4.	1.49E+01	1.	2.07E+01	2.05E+01
BLACK CANYON R	1.65E+01	1.65E+01	2.3	6.2	1.	2.07E+01	1.99E+01
CASCADE R	1.73E+01	8.5	5.	1.35E+01	7.	1.95E+01	1.88E+01
C J STRIKE R	3.00E+01	3.00E+01	1.5	4.4	1.	2.11E+01	1.88E+01
CRANE CREEK R	1.32E+01	1.32E+01	0.2	0.5	1.	2.93E+01	1.60E+01
DEADWOOD R	3.03E+01	7.	1.3	3.5	3.	2.21E+01	1.99E+01
LAKE LOWELL	1.21E+01	1.21E+01	1.	2.7	3.	2.21E+01	2.23E+01
LITTLE CANAS R	4.3	2.5	0.8	2.2	7.	2.31E+01	2.25E+01
LUCKY PEAK R	6.36E+01	4.	5.	1.35E+01	1.	1.82E+01	1.75E+01
MANN'S CREEK R	2.73E+01	5.	1.9	3.1	7.	2.19E+01	2.09E+01
MOUNTAIN HOME R	4.	4.	0.3	0.8	NA	2.31E+01	2.10E+01
PAYETTE L	8.79E+01	5.	7.8	2.11E+01	4.	2.10E+01	1.96E+01
SWAN FALLS R	6.8	6.8	0.8	2.2	1.	1.94E+01	1.68E+01
TRINITY L	1.85E+01	4.	4.9	1.32E+01	5.	1.75E+01	1.74E+01
UPPER PAYETTE L	1.61E+01	3.5	5.2	4.0E+01	1.	2.00E+01	2.00E+01
AMERICAN FALLS R	1.68E+01	1.68E+01	2.1	5.7	7.	2.25E+01	1.92E+01
ASHTON R	1.43E+01	1.43E+01	4.	4.	6.	1.97E+01	1.84E+01
BLACKFOOT R	7.5	7.5	2.5	6.8	7.	2.13E+01	2.00E+01
GOLDEN LAKE	5.5	5.5	0.2	0.5	7.	1.82E+01	1.81E+01
CEDAR CREEK R	3.	3.	3.	8.1	7.	2.03E+01	1.70E+01
HENRYS LAKE	5.2	5.2	4.3	1.16E+01	1.	2.00E+01	1.99E+01
ISLAND PARK R	2.19E+01	6.	4.5	1.22E+01	1.	2.12E+01	1.95E+01
LAKE HALCOTT	1.52E+01	1.52E+01	1.1	3.	1.	1.98E+01	1.95E+01
LITTLE WOOD R	1.52E+01	1.52E+01	1.3	4.1	7.	2.06E+01	1.98E+01
HACKAY R	9.	9.	4.5	1.22E+01	7.	1.75E+01	1.70E+01
MAGIC R	2.61E+01	6.	4.5	1.22E+01	7.	2.23E+01	2.21E+01
MILNER R	1.21E+01	1.21E+01	1.	2.7	7.	2.05E+01	2.00E+01
MORMON R	2.4	2.4	0.7	1.9	7.	2.34E+01	2.18E+01
MURTAUGH LAKE R	5.2	5.2	0.1	0.2	1.	1.91E+01	1.91E+01
PORTNEUF R	1.05E+01	1.05E+01	1.5	4.1	7.	2.13E+01	2.00E+01
RIRIE R	3.50E+01	1.00E+01	7.	1.90E+01	7.	2.00E+01	1.97E+01
SALMON FALLS R	2.33E+01	8.	1.2	3.2	7.	1.80E+01	1.74E+01
SILVER L	1.8	1.8	1.8	4.9	7.	2.21E+01	2.00E+01
WILSON LAKE R	6.1	6.1	0.1	0.2	1.	2.00E+01	1.96E+01
PALISADES R	3.23E+01	1.20E+01	3.5	9.5	7.	1.98E+01	1.94E+01
BEAR L	6.34E+01	1.14E+01	6.7	1.81E+01	1.	2.07E+01	1.99E+01
DEEP CREEK R	1.39E+01	1.39E+01	4.5	1.22E+01	7.	2.17E+01	1.92E+01
LAHONT R	1.52E+01	1.10E+01	1.5	4.1	7.	2.28E+01	2.09E+01
SCOA POINT R	8.8	8.8	1.2	3.2	7.	2.25E+01	2.00E+01
TWIN LAKES R (NORTH)	6.7	6.7	4.5	1.22E+01	4.	2.28E+01	2.00E+01
TWIN LAKES R (SOUTH)	5.8	5.8	2.5	6.2	4.	2.27E+01	2.02E+01

Table B-1. Water Quality/Lake Characteristics (Continued)

	HYPO2MIN	HYPO2MEN	H2SHYPO	CHLA	PH	CONDUCT	TURBID
UPPER BERNARD L	7.7	7.78	2.	1.59	6.6	2.00E+01	0.5
ANDERSON RANCH R	7.3	7.8	2.	6.39	9.5	6.00E+01	1.4
ARROWROCK R	6.3	8.7	2.	8.65	9.33	5.00E+01	2.
BLACK CANYON R	3.6	7.8	2.	7.88	9.17	4.50E+01	1.5
CASCADE R	3.3	5.18	2.	1.17E+01	8.97	3.20E+01	1.
C J STRIKE R	9.15	9.3	2.	1.75E+01	9.63	3.05E+02	2.00E+01
CRANE CREEK R	4.2	5.	2.	2.46	9.15	8.30E+01	9.00E+01
DEADWOOD R	4.8	5.99	2.	9.94	8.51	3.70E+01	4.6
LAKE LOWELL	0.	4.	2.	3.24E+01	9.47	1.36E+02	1.80E+01
LITTLE CAMAS R	6.2	7.5	2.	1.08E+01	1.00E+01	6.00E+01	7.3
LUCKY PEAK R	0.2	1.05E+01	2.	2.47	9.2	7.00E+01	1.00E+01
MANN'S CREEK R	4.8	4.9	2.	4.91	9.	1.50E+02	2.00E+01
MOUNTAIN HOME R	NA	2.	2.	2.23E+01	8.8	4.50E+01	5.50E+01
PAYETTE L	6.7	7.9	2.	0.14	7.1	3.20E+01	0.33
SWAN FALLS R	9.	9.	2.	1.94E+01	9.47	3.20E+02	2.20E+01
TRINITY L	1.3	3.35	2.	0.	7.15	2.90E+01	0.61
UPPER PAYETTE L	1.10E+01	9.	2.	0.	6.05	2.10E+01	0.57
AMERICAN FALLS R	4.2	5.5	2.	1.83E+01	8.35	3.35E+02	8.5
ASHTON R	3.1	5.5	2.	4.73	7.92	1.15E+02	1.1
BLACKFOOT R	1.	1.	2.	7.92	8.	3.40E+02	1.20E+01
GOLDEN LAKE	3.8	4.5	2.	1.08E+01	7.25	8.80E+01	3.40E+01
CEDAR CREEK R	8.6	1.00E+01	2.	1.69	8.7	1.64E+02	1.
HENRYS LAKE	5.7	5.8	2.	2.85	7.99	2.48E+02	2.7
ISLAND PARK R	3.5	6.	2.	5.7	8.6	1.50E+02	1.4
LAKE WALCOTT	4.8	4.7	2.	4.2	7.79	3.45E+02	3.5
LITTLE WOOD R	0.	1.7	2.	7.19	8.6	1.48E+02	5.3
MACKAY R	0.2	4.48	2.	1.27	8.05	2.19E+02	1.1
MAGIC R	0.	2.66	2.	1.06E+01	8.	1.60E+02	2.2
HILNER R	5.2	5.2	2.	1.38E+01	8.21	3.48E+02	3.8
MORMON R	3.7	4.8	2.	1.22E+01	8.11	3.02E+02	1.60E+01
MURTAUGH LAKE R	4.8	5.2	2.	1.45E+01	8.2	3.55E+02	5.2
PORTNEUF R	0.	1.	2.	3.11E+01	8.2	2.90E+02	1.50E+01
RIRIE R	2.1	3.78	2.	2.27	8.1	3.10E+02	0.7
SALMON FALLS R	2.1	2.3	2.	5.12	8.3	1.90E+02	7.8
SILVER L	1.8	5.7	2.	3.67	9.61	1.37E+02	1.1
WILSON LAKE R	6.7	7.	2.	1.76E+01	8.25	3.33E+02	5.5
PALISADES R	5.1	5.24	2.	1.47	8.	2.20E+02	1.5
BEAR L	8.	8.2	2.	2.46	8.39	6.00E+02	1.3
DEEP CREEK R	1.1	3.	2.	4.58	8.11	3.00E+02	1.7
LAMONT R	0.	0.	2.	4.33	8.28	1.65E+02	2.4
SODA POINT R	5.	5.2	2.	5.63	8.09	6.50E+02	2.5
TWIN LAKES R (NORTH)	6.	7.	2.	0.6	7.9	1.80E+02	2.3
TWIN LAKES R (SOUTH)	5.3	6.2	2.	2.35	7.98	1.88E+02	1.9

Table B-1. Water Quality/Lake Characteristics (Continued)

	ALKALIN	TSS	CRGCONT	TOTAL	NO3N	NH3N	TKN
UPPER BERNARD L	9.6	1.6	0.5	0.037	0.02	0.005	0.1
ANDERSON RANCH R	3.65E+01	2.4	3.	0.014	0.02	0.005	0.1
ARROWROCK R	2.69E+01	1.4	2.	0.03	0.02	0.02	0.
BLACK CANYON R	3.65E+01	1.6	5.	0.038	0.02	0.02	0.1
CASCADE R	1.73E+01	0.2	1.00E+01	0.05	0.025	0.03	0.4
C J STRIKE R	1.52E+02	8.	4.6	0.042	0.23	0.01	0.1
CRANE CREEK R	7.68E+01	1.40E+01	4.6	1.511	0.05	0.2	1.8
DEADWOOD R	1.63E+01	8.4	2.	0.03	0.02	0.03	0.1
LAKE LOWELL	8.64E+01	1.28E+01	1.28E+01	0.051	0.03	0.05	0.5
LITTLE CAMAS R	3.26E+01	1.20E+01	9.2	0.089	0.02	0.005	0.2
LUCKY PEAK R	7.10E+01	5.	5.	0.03	0.015	0.156	0.
HANN'S CREEK R	1.69E+02	4.	4.	0.032	0.02	0.25	0.1
MOUNTAIN HOME R	3.26E+01	4.20E+01	8.8	0.093	0.02	0.01	0.1
PAYETTE L	1.54E+01	2.	0.	0.014	0.025	0.04	0.4
SWAN FALLS R	1.61E+02	0.	7.8	0.06	0.11	0.005	0.1
TRINITY L	1.25E+01	2.	0.8	0.024	0.02	0.005	0.2
UPPER PAYETTE L	6.72	0.5	0.5	0.03	0.02	0.158	0.1
AMERICAN FALLS R	1.44E+02	2.2	1.2	0.061	0.02	0.02	0.2
ASHTON R	6.14E+01	2.2	0.4	0.05	0.02	0.05	0.1
BLACKFOOT R	2.04E+02	6.6	4.	0.08	0.045	0.16	0.5
GOLDEN LAKE	3.80E+01	4.72E+01	0.2	0.245	0.16	0.02	0.1
CEDAR CREEK R	7.10E+01	5.	6.	0.042	0.02	0.005	0.1
HENRYS LAKE	1.26E+02	2.2	8.	0.058	0.06	0.005	0.2
ISLAND PARK R	7.10E+01	1.2	8.	0.017	0.02	0.02	0.1
LAKE WALCOTT	1.42E+02	9.6	0.	0.106	0.2	0.01	0.2
LITTLE WOOD R	1.65E+02	5.6	2.2	0.06	0.02	0.005	0.2
HACKAY R	1.13E+02	1.6	0.6	2.658	0.02	0.314	3.3
MAGIC R	9.79E+01	5.8	0.2	0.022	0.02	0.02	0.1
MILNER R	1.50E+02	8.6	2.6	0.152	0.28	0.59	0.2
MORMON R	1.70E+02	2.22E+01	3.8	0.769	0.02	0.01	0.2
MURTAUGH LAKE R	1.47E+02	5.60E+01	5.6	0.148	0.29	0.01	0.4
PORTNEUF R	1.52E+02	9.	7.	0.045	0.02	0.005	0.1
RIRIE R	1.69E+02	2.	1.4	0.015	0.02	0.363	0.
SALMON FALLS R	9.02E+01	7.8	1.8	0.086	0.02	0.263	0.
SILVER L	5.47E+01	2.	2.	0.037	0.02	0.005	0.2
WILSON LAKE R	1.50E+02	3.52E+01	4.	0.125	0.29	0.005	0.1
PALISADES R	9.22E+01	4.8	2.6	0.039	0.03	0.02	0.1
BEAR L	2.57E+02	1.	1.	0.026	0.02	0.02	0.1
DEEP CREEK R	1.47E+02	1.00E+01	5.	0.066	0.02	0.377	0.
LAMONT R	1.17E+02	7.	1.6	0.04	0.02	0.005	0.
SODA POINT R	2.80E+02	1.8	1.2	1.067	0.02	0.2	1.5
TWIN LAKES R (NORTH)	1.20E+02	3.6	2.4	0.016	0.02	0.005	0.1
TWIN LAKES R (SOUTH)	1.23E+02	3.2	1.4	0.016	0.02	0.005	0.1

Table B-1. Water Quality/Lake Characteristics (Continued)

	TUTCOLIF	FECCLIF	COLOR	ODOR	NTOTAL	NP	ELEV
UPPER BERNARD L	0.	0.	5.	0.	0.18	4.9	7.24E+03
ANDERSON RANCH R	0.	0.	5.	0.	0.2	1.43E+01	4.20E+03
AKROWROCK R	0.	0.	2.50E+01	0.	0.08	2.7	3.22E+03
BLACK CANYON R	1.00E+01	1.40E+01	5.	0.	0.12	3.2	2.49E+03
CASCADE R	1.50E+01	0.	5.	0.	0.42	8.4	4.83E+03
C J STRIKE R	0.	0.	5.	0.	0.35	8.3	2.45E+03
CRANE CREEK R	0.	0.	1.50E+01	0.	1.9	1.3	3.19E+03
DEADWOOD R	0.	0.	1.00E+01	0.	0.19	6.3	5.31E+03
LAKE LOWELL	2.40E+01	0.	2.50E+01	0.	0.545	1.07E+01	2.53E+03
LITTLE CAMAS R	0.	0.	1.50E+01	2.	0.21	2.4	4.92E+03
LUCKY PEAK R	0.	0.	5.	1.	0.095	3.2	3.06E+03
MANN'S CREEK R	1.	0.	2.00E+01	0.	0.14	4.4	3.06E+03
MOUNTAIN HOME R	0.	3.	2.50E+01	3.	0.19	2.	3.28E+03
PAYETTE L	3.00E+01	1.	1.00E+01	0.	0.462	3.30E+01	4.99E+03
SWAN FALLS R	1.70E+01	3.	1.50E+01	1.	0.21	3.5	2.31E+03
TRINITY L	0.	0.	5.	0.	0.27	1.13E+01	7.75E+03
UPPER PAYETTE L	0.	0.	1.00E+01	1.	0.11	3.7	NA
AMERICAN FALLS R	2.00E+01	1.00E+01	1.50E+01	1.	0.245	4.	4.35E+03
ASHTON R	2.	1.	1.00E+01	0.	0.19	3.8	5.15E+03
BLACKFOOT R	3.00E+01	0.	5.	0.	0.605	7.6	6.11E+03
GOLDEN LAKE	0.	1.	5.	0.	0.35	1.4	6.13E+03
CEDAR CREEK R	1.	0.	5.	0.	0.13	3.1	5.22E+03
HENRYS LAKE	1.	0.	1.00E+01	2.	0.35	6.	6.47E+03
ISLAND PARK R	0.	0.	5.	2.	0.19	1.12E+01	6.30E+03
LAKE WALCOTT	0.	0.	5.	0.	0.48	4.5	4.19E+03
LITTLE WOOD R	0.	0.	1.00E+01	0.	0.25	4.2	5.23E+03
MACKAY R	5.00E+01	5.	5.	0.	3.36	1.3	6.06E+03
MAGIC R	0.	0.	1.00E+01	1.	0.16	7.3	4.80E+03
MILNER R	0.	0.	1.50E+01	0.	0.52	3.4	4.13E+03
MORMON R	0.	3.	2.00E+01	1.	0.21	0.3	5.04E+03
MURTAUGH LAKE R	3.40E+01	9.30E+01	5.	0.	0.73	4.9	4.13E+03
PORTNEUF R	5.00E+01	2.00E+01	5.	0.	0.17	3.8	5.39E+03
RIRIE R	0.	0.	5.	0.	0.08	5.3	5.00E+03
SALMON FALLS R	0.	0.	1.50E+01	1.	0.09	1.	3.40E+03
SILVER L	0.	0.	1.00E+01	0.	0.3	8.1	6.12E+03
WILSON LAKE R	0.	0.	1.00E+01	0.	0.42	3.4	4.01E+03
PALISADES R	1.00E+02	2.00E+01	5.	0.	0.185	4.7	5.62E+03
BEAR L	2.00E+01	0.	5.	0.	0.2	7.7	5.92E+03
DEEP CREEK R	1.00E+02	0.	5.	0.	0.08	1.2	5.15E+03
LAMONT R	1.00E+02	5.	5.	0.	0.09	2.3	4.87E+03
SODA POINT R	1.00E+02	5.	5.	0.	1.57	1.5	5.72E+03
TWIN LAKES R (NORTH)	5.00E+01	0.	5.	0.	0.11	6.9	4.76E+03
TWIN LAKES R (SOUTH)	5.00E+01	5.	5.	0.	0.11	6.9	4.76E+03

B-10

Table B-1. Water Quality/Lake Characteristics (Continued)

	AREAAC	AREASQM	SHOREM	SHOREIDX	VOLUME
UPPER BERNARD L	1.10E+01	NA	NA	NA	NA
ANDERSON RANCH R	4.74E+03	1.92E+07	7.27E+04	4.67969	6.08E+08
ARROWROCK R	3.10E+03	1.25E+07	8.01E+04	6.38046	3.53E+08
BLACK CANYON R	1.10E+03	4.45E+06	3.55E+04	4.74201	5.44E+07
CASCADE R	3.00E+04	1.21E+08	1.03E+05	2.64707	8.67E+08
C J STRIKE R	7.50E+03	3.04E+07	8.88E+04	4.54889	6.38E+07
CRANE CREEK R	3.27E+03	1.32E+07	2.69E+04	2.08859	6.30E+07
DEADWOOD R	3.20E+03	1.21E+07	1.67E+04	1.34994	2.00E+08
LAKE LOWELL	9.80E+03	3.97E+07	3.58E+04	1.60264	2.35E+08
LITTLE CAMAS R	1.45E+03	5.89E+06	1.38E+04	1.59908	2.75E+07
LUCKY PEAK R	2.85E+03	1.15E+07	6.61E+04	5.48664	3.82E+08
MANN'S CREEK R	2.81E+02	1.14E+06	1.65E+04	4.37777	6.04E+07
MOUNTAIN HOME R	4.06E+02	1.64E+06	8.08E+03	1.7781	7.03E+06
PAYETTE L	5.34E+03	2.16E+07	3.77E+04	2.29006	4.32E+07
SWAN FALLS R	9.00E+02	3.64E+06	3.85E+04	5.69049	8.51E+06
TRINITY L	2.50E+01	1.01E+05	1.59E+03	1.41005	4.42E+05
UPPER PAYETTE L	NA	NA	NA	NA	NA
AMERICAN FALLS R	5.61E+04	2.27E+08	1.84E+05	3.44908	2.10E+09
ASHTON R	3.98E+02	1.61E+06	2.23E+04	4.96182	6.91E+06
BLACKFOOT R	1.90E+04	7.69E+07	1.24E+05	3.977	5.10E+08
GOLDEN LAKE	4.60E+01	NA	NA	NA	NA
CEDAR CREEK R	1.50E+03	NA	NA	NA	3.21E+07
HENRYS LAKE	6.58E+03	2.66E+07	3.34E+04	1.82877	9.07E+07
ISLAND PARK R	7.79E+03	3.15E+07	8.06E+04	4.04821	1.57E+08
LAKE WALCOTT	1.18E+04	4.80E+07	NA	NA	2.59E+08
LITTLE WOOD R	6.00E+02	2.43E+06	1.39E+04	2.51259	3.70E+07
MACKAY R	1.34E+03	5.43E+06	1.16E+04	1.40945	5.47E+07
MAGIC R	3.50E+03	1.42E+07	5.94E+04	4.45207	2.37E+08
MILNER R	7.60E+02	3.08E+06	1.52E+05	2.44E+01	9.87E+07
MORMON R	1.17E+03	NA	NA	NA	3.87E+07
MURTAUGH LAKE R	7.00E+02	2.83E+06	1.43E+04	2.3966	6.00E+06
PORTNEUF R	1.59E+03	6.45E+06	1.73E+04	1.92197	2.92E+07
RIRIE R	1.56E+03	6.31E+06	1.27E+04	1.43026	1.24E+08
SALMON FALLS H	1.90E+01	7.69E+04	3.26E+03	3.31627	2.85E+08
SILVER L	1.82E+02	7.37E+05	9.84E+03	3.23586	NA
WILSON LAKE R	4.84E+02	1.96E+06	1.48E+04	2.99306	5.84E+06
PALISADES R	1.61E+04	6.52E+07	1.07E+05	3.7427	1.73E+09
BEAR L	7.04E+04	2.85E+08	7.56E+04	1.26344	1.77E+09
DEEP CREEK R	6.18E+01	7.26E+05	5.57E+03	1.84305	4.20E+06
LAMONT R	9.20E+01	3.60E+05	4.05E+03	1.90248	2.32E+06
SODA POINT R	1.16E+03	4.71E+06	2.43E+04	3.15683	1.41E+07
TWIN LAKES R (NORTH)	4.46E+02	9.02E+05	4.02E+03	1.19515	NA
TWIN LAKES R (SOUTH)	4.46E+02	9.02E+05	4.02E+03	1.19515	NA

TABLE 8-2

## LAKE SHORE: USE/OWNERSHIP/ACTIVITIES

No.	Name	Definition/Units of Measure	Data Source
1.	SURB	Lake shoreline land use: urban/fraction	(1)
2.	SAGRIC	Lake shoreline land use: agriculture/fraction	(1)
3.	SRAN	Lake shoreline land use: range/fraction	(1)
4.	SFOR	Lake shoreline land use: forest/fraction	(1)
5.	SWET	Lake shoreline land use: wetland/fraction	(1)
6.	SBAR	Lake shoreline land use: barrenland/fraction	(1)
7.	LSFED	Lake shoreline land ownership: federal/fraction	(2)
8.	LSSTATE	Lake shoreline land ownership: state/fraction	(2)
9.	LSPRIV	Lake shoreline land ownership: private/fraction	(2)
10.	LSOTH	Lake shoreline land ownership: other/fraction	(2)
11.	RECA	Number of public recreational accesses/#	(3)
12.	REMOTE	Distance to major highway/(4)	(4)
13.	DEV	Shoreline developed/fraction	(5)
14.	ROADA	Shoreline paralleled by road/fraction	(6)

## Notes:

1. Landsat photography and maps prepared by College of Forestry University of Idaho.
2. Bureau of Land Management surface management status maps: 1979
3. Derived from data obtained from Outdoor Recreation Facilities Inventory, Idaho Department of Parks and Recreation, 1980. Supplemented by USGS maps, pfw, etc.
4. Variable is an index defined as follows:  

$$\text{Remote} = (\text{miles secondary road} \times 1) + (\text{miles of gravel road} \times 2) + (\text{miles of dirt road} \times 4) + (\text{miles of trail} \times 8).$$
 Source: County highway maps, Idaho Department of Transportation (1978).
5. Variety of data sources employed, see Holmes, T.P., Lakes and Society: Relationships between human activities and the trophic status of Idaho lakes, 1983. Moscow: University of Idaho, unpublished thesis.
6. See sources in (4) and USGS maps, BLM maps, and project aerial photos.



Table B-2. Lake Shore: Use/Ownership/Activities

	SURB	SAGRIC	SRAA	SFOR	SWET	SBAR	LSFED
MACARTHUR L	0.	0.05	0.	0.95	0.	0.	0.
MYRTLE L	0.	0.	0.	1.	0.	0.	1.
PERKINS L	0.	0.	0.	1.	0.	0.	0.85
COCOLALLA L	0.	0.2	0.	0.8	0.	0.	0.8
HOODOO L	0.	0.	0.	1.	0.	0.	0.8
LOWER PRIEST L	0.	0.	0.	1.	0.	0.	0.33
LAKE PEND CREILLE	0.1	0.09	0.	0.78	0.03	0.	0.31
ROUND L	0.	0.4	0.	0.6	0.	0.	0.
SPIRIT LAKE	0.	0.	0.	1.	0.	0.	0.
UPPER PRIEST L	0.	0.	0.	1.	0.	0.	0.57
BENEWAH L	0.	0.2	0.	0.8	0.	0.	0.
CAVE L	0.	0.33	0.	0.33	0.34	0.	0.
LAKE CHATCLET	0.	0.	0.	0.64	0.36	0.	0.
LAKE CŒUR D'ALENE	0.06	0.03	0.	0.85	0.06	0.	0.05
FERNAN L	0.4	0.	0.	0.6	0.	0.	0.
HAUSER L	0.33	0.	0.	0.67	0.	0.	0.
HAYDEN L	0.5	0.	0.	0.5	0.	0.	0.01
ROSE L	0.05	0.	0.	0.45	0.5	0.	0.05
STEVENS L	0.	0.	0.	0.	0.	0.	0.
SWAN LAKE	0.	0.	0.	0.6	0.	0.4	0.
TWIN LAKES LOWER L	0.	0.	0.	1.	0.	0.	0.
TWIN LAKES UPPER L	0.	0.	0.	1.	0.	0.	0.
DWORSHAK RES	0.	0.	0.02	0.98	0.	0.	0.
MANN'S LAKE	0.	1.	0.	0.	0.	0.	0.
MOUSE CREEK R	0.	0.	0.	0.	0.	0.	0.
SOLDIERS MEADOW R	0.	0.	0.	0.	0.	0.	0.
LAKE WAHA	0.	0.	0.	0.	0.	0.	0.
WINCHESTER L	0.	0.	0.	0.	0.	0.	0.
ALTURAS L	0.	0.	0.	0.	0.	0.	0.
BAYHORSE L	0.	0.	0.	0.	0.	0.	0.
GOOSE LAKE	0.	0.	0.	0.	0.	0.	0.
PETIT L	0.	0.	0.3	0.7	0.	0.	0.
REDFISH L	0.	0.	0.	1.	0.	0.	0.
SEVEN DEVILS L	0.	0.	0.	0.66	0.	0.34	0.
STANLEY L	0.	0.	0.	0.	0.	0.	0.
TCLQ L	0.	1.	0.	0.	0.	0.	0.
WARM L	0.	0.	0.	1.	0.	0.	0.
WILLIAMS LAKE	0.	0.	0.	0.	0.	0.	0.
BASIN L	0.	0.	0.	0.5	0.	0.5	0.
BROWNLEE R	0.	0.	1.	0.	0.	0.	0.6
ECHO L	0.	0.	0.	1.	0.	0.	0.
GEM L	0.	0.	0.	0.33	0.	0.67	0.
HEDEVIL L	0.	0.	0.	0.7	0.	0.3	0.
HELLS CANYON R	0.	0.	1.	0.	0.	0.	0.9
LOWER BERNARD L	0.	0.	0.	1.	0.	0.	0.
OXBOW RES	0.	0.	1.	0.	0.	0.	0.6
SHELF L	0.	0.	0.	0.67	0.	0.33	1.

Table B-2. Lake Shore: Use/Ownership/Activities (Continued)

	LSSTATE	LSPRIV	LSOTH	RECA	REMOTE	DEV	ROADA
MACARTHUR L	1.	0.	0.	2.	1.	0.2	0.15
MYRTLE L	0.	0.	0.	1.	7.08E+01	0.05	0.
PERKINS L	0.	0.15	0.	2.	8.4	0.	0.05
COCOLALLA L	0.	1.	0.	1.	0.4	0.6	0.8
HGODCO L	0.	0.2	0.	1.	1.02E+01	0.1	0.2
LOWER PRIEST L	0.35	0.2	0.12	9.	2.60E+01	0.56	0.7
LAKE PEND OREILLE	0.12	0.55	0.02	9.	0.1	0.56	0.5
ROUND L	1.	0.	0.	1.	0.2	0.1	0.05
SPIRIT LAKE	0.02	0.98	0.	2.	2.	0.57	0.58
UPPER PRIEST L	0.43	0.	0.	4.	7.10E+01	0.1	0.
BENEWAH L	0.6	0.4	0.	1.	1.	0.3	0.8
CAVE L	0.	2.	0.	2.	1.2	0.35	0.5
LAKE CHATCOLET	1.	0.	0.	2.	1.5	0.35	0.5
LAKE COEUR D'ALENE	0.05	0.85	0.05	2.	2.20E+01	0.1	0.8
FERNAN L	0.2	0.8	0.	2.	0.1	0.8	0.4
HAUSER L	0.05	0.95	0.	2.	1.6	0.37	1.
HAYDEN L	0.	0.95	0.04	3.	1.4	0.85	1.
ROSE L	0.	0.95	0.	1.	0.5	0.7	0.4
STEVENS L	0.	0.	0.	1.	2.40E+01	0.	0.
SWAN LAKE	0.	1.	0.	1.	3.7	0.	0.
TWIN LAKES LOWER L	0.05	0.95	0.	3.	0.1	0.62	0.4
TWIN LAKES UPPER L	0.05	0.95	0.	2.	3.	0.46	0.35
DWORSHAK RES	0.	0.	0.	1.	2.20E+01	0.1	0.1
MANN'S LAKE	0.	0.	1.	2.	9.5	0.02	0.3
MOOSE CREEK R	1.	0.	0.	1.	3.6	0.05	0.5
SOLDIERS MEADOW R	0.	1.	0.	2.	4.10E+01	0.02	0.2
LAKE WAHA	0.	1.	0.	2.	1.40E+01	0.07	0.1
WINCHESTER L	1.	0.	0.	4.	0.1	0.1	0.7
ALTURAS L	0.	0.	0.	4.	6.	0.01	0.6
BAYHCRSE L	0.	0.	0.	4.	3.40E+01	0.	0.
GOOSE LAKE	0.	0.	0.	1.	1.58E+01	0.02	0.4
PETIT L	0.	0.	0.	1.	3.	0.2	0.5
REDFISH L	0.	0.	0.	3.	2.	0.02	0.2
SEVEN DEVILS L	0.	0.	0.	1.	4.84E+01	0.	0.
STANLEY L	0.	0.	0.	2.	8.	0.2	0.4
TCLU L	0.	1.	0.	3.	2.60E+01	0.01	0.5
WARM L	0.	0.	0.	3.	2.60E+01	0.5	0.5
WILLIAMS LAKE	0.	0.	0.	2.	1.40E+01	0.32	0.6
BASIN L	0.	0.	0.	1.	8.20E+01	0.	0.
BROWNLEE R	0.	0.4	0.	2.	0.1	0.16	0.55
ECHO L	0.	0.	0.	2.	1.06E+02	0.	0.
GEM L	0.	0.	0.	1.	9.80E+01	0.	0.
HEDEVIL L	0.	0.	0.	1.	1.14E+02	0.	0.
HELLS CANYON R	0.	0.1	0.	1.	2.20E+01	0.02	0.5
LOWER BERNARD L	0.	0.	0.	2.	9.00E+01	0.	0.
OXBOW RES	0.05	0.35	0.	2.	3.50E+01	0.02	0.6
SHELF L	0.	0.	0.	1.	9.00E+01	0.	0.

Table B-2. Lake Shore: Use/Ownership/Activities (Continued)

	SURB	SAGRIC	SRAN	SFCR	SWET	SBAR	LSFED
UPPER BERNARD L	0.	0.	0.	0.	1.	0.	1.
ANDERSON RANCH R	0.	0.12	0.69	0.19	0.	0.	1.
ARROWROCK R	0.	0.	1.	0.	0.	0.	0.9
BLACK CANYON R	0.	0.01	0.99	0.	0.	0.	0.75
CASCADE R	0.	0.27	0.15	0.28	0.57	0.	0.
C J STRIKE R	0.	0.27	0.73	0.	0.	0.	0.6
CRANE CREEK R	0.	0.55	0.45	0.	0.	0.	0.25
DEADWOOD R	0.	0.	0.	1.	0.	0.	1.
LAKE LOWELL	0.	0.26	0.26	0.	0.48	0.	1.
LITTLE CAMAS R	0.	0.	1.	0.	0.	0.	0.65
LUCKY PEAK R	0.	0.	1.	0.	0.	0.	0.45
MANN'S CREEK R	0.	0.	1.	0.	0.	0.	0.
MOUNTAIN HOME R	0.	0.	1.	0.	0.	0.	0.95
PAYETTE L	0.17	0.	0.	0.83	0.	0.	0.
SWAN FALLS R	0.	0.05	0.95	0.	0.	0.	0.3
TRINITY L	0.	0.	0.	0.5	0.	0.5	1.
UPPER PAYETTE L	0.	0.	0.	1.	0.	0.	NA
AMERICAN FALLS R	0.05	0.78	0.07	0.	0.1	0.	0.05
ASHTON R	0.	0.5	0.5	0.	0.	0.	0.05
BLACKFOOT R	0.	0.35	0.65	0.	0.	0.	0.8
GOLDEN LAKE	0.	0.	1.	0.	0.	0.	0.05
CEDAR CREEK R	0.	0.	0.	1.	0.	0.	0.5
HENRYS LAKE	0.	0.	1.	0.	0.	0.	0.15
ISLAND PARK R	0.	0.	0.55	0.45	0.	0.	0.5
LAKE WALCOTT	0.	0.	1.	0.	0.	0.	0.97
LITTLE WOOD R	0.	0.5	0.5	0.	0.	0.	0.
MACKAY R	0.	0.05	0.95	0.	0.	0.	0.7
MAGIC R	0.	0.	1.	0.	0.	0.	0.5
MILNER R	0.1	0.5	0.4	0.	0.	0.	0.17
MORMON R	0.	0.14	0.86	0.	0.	0.	0.7
MURTAUGH LAKE R	0.	1.	0.	0.	0.	0.	0.05
PORTNEUF R	0.	0.75	0.25	0.	0.	0.	0.05
RIRIE R	0.	0.45	0.55	0.	0.	0.	1.
SALMON FALLS R	0.	0.	1.	0.	0.	0.	0.7
SILVER L	0.	0.	0.	1.	0.	0.	0.2
WILSON LAKE R	0.	0.5	0.5	0.	0.	0.	0.9
PALISADES R	0.	0.	0.04	0.96	0.	0.	0.4
BEAR L	0.	0.08	0.25	0.	0.67	0.	0.
DEEP CREEK R	0.	0.	1.	0.	0.	0.	0.05
LAMONT R	0.	1.	0.	0.	0.	0.	0.
SODA POINT R	0.05	0.57	0.38	0.	0.	0.	0.05
TWIN LAKES R (NORTH)	0.	1.	0.	0.	0.	0.	0.
TWIN LAKES R (SOUTH)	0.	1.	0.	0.	0.	0.	0.

Table B-2. Lake Shore: Use/Ownership/Activities (Continued)

	LSSTATE	LSPRIV	LSOTH	RECA	REMOTE	DEV	ROADA
UPPER BERNARD L	0.	0.	0.	1.	9.40E+01	0.	0.
ANDERSON RANCH R	0.	0.	0.	2.	7.	0.04	0.6
ARRCWRCK R	0.1	0.	0.	2.	1.	0.01	0.42
BLACK CANYON R	0.	0.25	0.	2.	0.1	0.04	0.6
CASCADE R	0.02	0.98	0.	9.	0.1	0.14	0.55
C J STRIKE R	0.	0.4	0.	6.	0.1	0.21	0.3
CRANE CREEK R	0.	0.75	0.	2.	1.40E+01	0.02	0.2
DEADWOOD R	0.	0.	0.	3.	7.10E+01	0.07	0.4
LAKE LOWELL	0.	0.	0.	2.	1.	0.1	0.9
LITTLE CAMAS R	0.15	0.2	0.	4.	1.	0.03	0.65
LUCKY PEAK R	0.1	0.45	0.	4.	0.1	0.02	0.2
MANN'S CREEK R	0.	1.	0.	1.	1.	0.02	0.6
MOUNTAIN HOME R	0.	0.05	0.	2.	0.1	0.01	0.6
PAYETTE L	0.75	0.1	0.15	4.	0.1	0.72	0.75
SWAN FALLS R	0.	0.7	0.	1.	0.05	0.11	0.3
TRINITY L	0.	0.	0.	2.	8.90E+01	0.1	0.3
UPPER PAYETTE L	NA	NA	NA	NA	NA	NA	NA
AMERICAN FALLS R	0.	0.5	0.45	1.	0.1	0.08	0.35
ASHTON R	0.	0.95	0.	2.	0.01	0.02	0.07
BLACKFOOT R	0.	0.2	0.	4.	1.80E+01	0.04	0.12
GOLDEN LAKE	0.	0.95	0.	2.	8.	0.1	0.3
CEDAR CREEK R	0.	0.5	0.	1.	6.	0.	0.2
HENRYS LAKE	0.	0.85	0.	2.	2.	0.12	0.22
ISLAND PARK R	0.	0.5	0.	3.	3.	0.12	0.1
LAKE WALCOTT	0.03	0.	0.	4.	1.50E+01	0.05	0.4
LITTLE WOOD R	0.02	0.98	0.	1.	1.50E+01	0.05	0.05
MACKAY R	0.	0.3	0.	3.	0.1	0.01	0.3
MAGIC R	0.	0.5	0.	6.	8.	0.17	0.25
MILNER R	0.	0.9	0.	4.	0.1	0.22	0.15
MORMON R	0.1	0.2	0.	2.	1.00E+01	0.02	0.05
MURTAUGH LAKE R	0.	0.95	0.	1.	1.	0.15	0.05
PORTNEUF R	0.	0.8	0.15	4.	2.30E+01	0.01	0.6
RIRIE R	0.	0.	0.	2.	2.5	0.	0.05
SALMON FALLS R	0.05	0.25	0.	5.	1.10E+01	0.01	0.05
SILVER L	0.	0.8	0.	3.	2.	0.	0.02
WILSON LAKE R	0.	0.1	0.	1.	7.	0.05	0.05
PALISADES R	0.	0.6	0.	6.	0.01	0.06	0.55
BEAR L	0.1	0.85	0.05	2.	0.01	0.47	0.9
DEEP CREEK R	0.	0.95	0.	2.	1.10E+01	0.04	0.7
LAMONT R	0.	1.	0.	1.	0.01	0.06	0.75
SODA POINT R	0.	0.95	0.	1.	1.10E+01	0.03	0.4
TWIN LAKES R (NORTH)	0.	1.	0.	2.	9.	0.02	0.8
TWIN LAKES R (SOUTH)	0.	1.	0.	1.	3.	0.02	0.75

TABLE B-3

## LAKE WATERSHED: USE/OWNERSHIP/ACTIVITIES

No.	Name	Definition/Units of Measure	Data Source
1.	BURB	Watershed land use: urban/fraction	(1)
2.	BAGRIC	Watershed land use: agricultural/fraction	(1)
3.	BRAN	Watershed land use: range/fraction	(1)
4.	BFOR	Watershed land use: forest/fraction	(1)
5.	BWAT	Watershed land use: water/fraction	(1)
6.	BWET	Watershed land use: wetland/fraction	(1)
7.	BBAR	Watershed land use: barrenland/fraction	(1)
8.	BTUN	Watershed land use: tundra/fraction	(1)
9.	BAREA	Lake watershed in Idaho/sq. miles	(1)
10.	WSFED	Watershed landownership: federal/fraction	(2)
11.	WSSTATE	Watershed landownership: state/fraction	(2)
12.	WSPRIV	Watershed landownership: private/fraction	(2)
13.	WSOTH	Watershed landownership: other/fraction	(2)
14.	SED	Sediment yield/acre-feet per sq. mi per year (range $0.2 \leq \text{sed} \leq 4.0$ )	(3)
15.	PRECIP	Average annual precipitation/inches	(4)
16.	WSPOP80	Population in watershed, 1980/persons	(5)
17.	WSG6070	Watershed population growth 1960-1970/multiply by 100 = %	(5)
18.	WSG7080	Watershed population growth 1970-1980/multiply by 100 = %	(5)

## Notes:

1. Landsat Photography and Maps prepared by College of Forestry, University of Idaho.
2. Bureau of Land Management Surface Management Status Maps: 1979
3. U.S. Soil Conservation Service
4. U.S. Weather Bureau
5. These data were developed from census data for Idaho and the surrounding states. The methodology employed is described in Holmes, T.P., Lakes and Society: ..., unpublished thesis, University of Idaho, Moscow, 1983.

Table B-3. Lake Watershed: Use/Ownership/Activities

	BURB	BAGRIC	BRAN	BFCR	BWAT	BWET	BBAR
MACARTHUR L	0.	0.075802	0.	0.90379	0.020408	0.	0.
MYRTLE L	0.	0.	0.	1.	0.	0.	0.
PERKINS L	0.	0.	0.	0.9375	0.0625	0.	0.
COCOLALLA L	0.	0.109634	0.	0.872088	0.018272	0.	0.
HOODOO L	0.	0.187289	0.	0.811364	0.001338	0.	0.
LOWER PRIEST L	0.	0.003797	0.	0.660547	0.335653	0.	0.
LAKE PEND GREILLE	0.007107	0.063561	0.	0.795176	0.131772	0.	0.
ROUND L	0.	0.119669	0.	0.865196	0.015131	0.	0.
SPIRIT LAKE	0.010676	0.	0.	0.893238	0.096085	0.	0.
UPPER PRIEST L	0.	0.	0.	0.015176	0.984822	0.	0.
BENEWAH L	0.	0.	0.163265	0.816323	0.	0.020408	0.
CAVE L	0.027069	0.005115	0.003055	0.953593	0.002274	0.008881	0.
LAKE CHATCOLET	0.	0.214452	0.	0.743589	0.041958	0.	0.
LAKE COEUR D'ALENE	0.011489	0.028277	0.029547	0.906714	0.018788	0.005163	0.
FERNAN L	0.020833	0.	0.	0.953124	0.026042	0.	0.
HAUSER L	0.027472	0.	0.	0.934065	0.038461	0.	0.
HAYDEN L	0.075471	0.004354	0.	0.840343	0.079825	0.	0.
ROSE L	0.074074	0.	0.	0.574074	0.092593	0.259259	0.
STEVENS L	0.	0.	0.375	0.	0.625	0.	0.
SWAN LAKE	0.	1.	0.	0.	0.	0.	0.
TWIN LAKES LOWER L	0.	0.060533	0.	0.903145	0.03632	0.	0.
TWIN LAKES UPPER L	0.	0.060533	0.	0.903145	0.03632	0.	0.
DWORSNAK RES	0.00031	0.002024	0.043869	0.940661	0.013136	0.	0.
MANN'S LAKE	0.	0.86747	0.13253	0.	0.	0.	0.
MOOSE CREEK R	0.	0.	0.	1.	0.	0.	0.
SOLDIERS MEADOW R	0.	0.	0.	1.	0.	0.	0.
LAKE WAHA	0.	0.	0.098592	0.901408	0.	0.	0.
WINCHESTER L	0.	0.5	0.	0.5	0.	0.	0.
ALTURAS L	0.	0.	0.285714	0.55927	0.027356	0.	0.127659
BAYHORSE L	0.	0.	0.	1.	0.	0.	0.
GOOSE LAKE	0.	0.	0.201958	0.741738	0.056304	0.	0.
PETIT L	0.	0.	0.247573	0.504854	0.048544	0.	0.199029
REDFISH L	0.	0.	0.160847	0.58354	0.049875	0.	0.185785
SEVEN DEVILS L	0.	0.	0.	0.4	0.	0.	0.6
STANLEY L	0.	0.	0.117241	0.765517	0.013793	0.	0.103448
TOLO L	0.	0.305555	0.366667	0.327778	0.	0.	0.
WARM L	0.	0.	0.946808	0.946808	0.053191	0.	0.
WILLIAMS LAKE	0.	0.	0.558621	0.42069	0.02069	0.	0.
BASIN L	0.	0.	0.	0.1	0.	0.	0.9
BROWNLEE R	0.004697	0.187734	0.546534	0.182708	0.009974	0.002778	0.063971
ECHO L	0.	0.	0.	0.5	0.	0.	0.5
GEM L	0.	0.	0.	0.33	0.	0.	0.67
HEDEVIL L	0.	0.	0.	0.5	0.	0.	0.5
HELLS CANYON R	0.004658	0.186195	0.546138	0.185334	0.009891	0.002755	0.06344
LOWER BERNARD L	0.	0.	0.	1.	0.	0.	0.
OXBOW RES	0.00467	0.18668	0.546033	0.184742	0.009917	0.002762	0.063605
SHELF L	0.	0.	0.	0.1	0.	0.	0.9

Table B-3. Lake Watershed: Use/Ownership/Activities (Continued)

	BTUN	BAREA	WSFED	WSSTATE	WSPRIV	WSOTH	SED
MACARTHUR L	0.	3.43E+01	0.08	0.17	0.75	0.	0.
MYRTLE L	0.	3.4	1.	0.	0.	0.	0.
PERKINS L	0.	3.2	0.8	0.	0.2	0.	0.
COCOLALLA L	0.	6.02E+01	0.2	0.05	0.75	0.	0.
HOODOO L	0.	1.49E+02	0.05	0.1	0.85	0.	0.
LOWER PRIEST L	0.	4.74E+02	0.3	0.3	0.2	0.2	0.
LAKE PEND OREILLE	0.	1.01E+03	0.65	0.05	0.3	0.	0.
ROUND L	0.	7.27E+01	0.1	0.15	0.75	0.	0.
SPIRIT LAKE	0.	2.81E+01	0.08	0.1	0.72	0.1	0.
UPPER PRIEST L	0.	1.25E+02	0.35	0.2	0.03	0.42	0.
BENEWAH L	0.	5.39E+01	0.	0.1	0.9	0.	0.
CAVE L	0.	1.41E+03	0.05	0.	0.2	0.75	0.
LAKE CHATCOLET	0.	4.29E+01	0.	0.2	0.8	0.	0.
LAKE COEUR D'ALENE	0.	3.70E+03	0.6	0.1	0.3	0.	0.
FERNAN L	0.	1.92E+01	0.4	0.15	0.45	0.	0.
HAUSER L	0.	1.82E+01	0.	0.1	0.9	0.	0.
HAYDEN L	0.	6.89E+01	0.65	0.05	0.3	0.	0.
ROSE L	0.	5.4	0.25	0.	0.75	0.	0.
STEVENS L	0.	8.	1.	0.	1.	0.	0.
SWAN LAKE	0.	NA	0.	0.	1.	0.	0.
TWIN LAKES LOWER L	0.	4.13E+01	0.05	0.15	0.7	0.1	0.
TWIN LAKES UPPER L	0.	4.13E+01	0.05	0.15	0.7	0.1	0.
DWORSHAK RES	0.	2.42E+03	0.55	0.1	0.35	0.	0.
MANN'S LAKE	0.	8.3	0.	0.	0.2	0.8	0.
MOOSE CREEK R	0.	7.8	0.	0.5	0.5	0.	0.
SOLDIERS MEADOW R	0.	5.4	0.	0.	1.	0.	0.
LAKE WAHA	0.	7.1	0.	0.	1.	0.	0.
WINCHESTER L	0.	7.2	0.	0.1	0.	0.9	0.
ALTURAS L	0.	3.29E+01	1.	0.	0.	0.	0.
BAYHORSE L	0.	0.62	1.	0.	0.	0.	0.
GOOSE LAKE	0.	8.17	1.	0.	0.	0.	0.
PETIT L	0.	1.03E+01	1.	0.	0.	0.	0.
REDFISH L	0.01995	4.01E+01	1.	0.	0.	0.	0.
SEVEN DEVILS L	0.	0.32	1.	0.	0.	0.	0.
STANLEY L	0.	1.45E+01	1.	0.	0.	0.	0.
TOLO L	0.	1.80E+01	0.	0.03	0.97	0.	0.
WARM L	0.	9.4	1.	0.	0.	0.	0.
WILLIAMS LAKE	0.	1.45E+01	1.	0.	0.	0.	0.
BASIN L	0.	1.68	1.	0.	0.	0.	0.
BROWNLEE R	0.001603	3.41E+04	0.45	0.05	0.5	0.	0.
ECHO L	0.	0.97	1.	0.	0.	0.	0.
GEM L	0.	0.54	1.	0.	0.	0.	0.
HEDEVIL L	0.	0.63	1.	0.	0.	0.	0.
HELLS CANYON R	0.001589	3.44E+04	0.85	0.05	0.1	0.	0.
LOWER BERNARD L	0.	0.68	1.	0.	0.	0.	0.
OXBOW RES	0.001593	3.43E+04	0.85	0.05	0.1	0.	0.
SHELF L	0.	0.92	1.	0.	0.	0.	0.

Table B-3. Lake Watershed: Use/Ownership/Activities (Continued)

	PRECIP	WSPCP80	WSG6070	WSG7080
MACARTHUR L	3.00E+01	3.02E+02	0.05	0.62
MYRTLE L	5.00E+01	0.	0.	0.
PERKINS L	2.30E+01	3.00E+01	NA	0.5
COCOLALLA L	3.40E+01	1.37E+03	0.1	1.27
HOODOO L	3.50E+01	6.83E+02	0.1	1.26
LOWER PRIEST L	3.50E+01	1.32E+03	0.04	0.63
LAKE PEND OREILLE	3.00E+01	1.66E+04	0.01	0.52
ROUND L	2.40E+01	2.05E+02	0.11	1.25
SPIRIT LAKE	2.50E+01	1.98E+03	0.07	0.93
UPPER PRIEST L	3.90E+01	0.	0.	0.
BENEWAH L	2.60E+01	2.15E+02	NA	0.65
CAVE L	2.50E+01	1.90E+02	NA	0.27
LAKE CHATCOLET	2.40E+01	1.56E+03	NA	1.67
LAKE COEUR D'ALENE	2.50E+01	5.49E+04	NA	0.2
FERNAN L	2.80E+01	1.24E+03	NA	0.95
HAUSER L	2.50E+01	1.52E+03	0.31	1.
HAYDEN L	2.70E+01	5.52E+03	NA	1.05
ROSE L	3.70E+01	1.90E+02	NA	0.27
STEVENS L	5.70E+01	0.	0.	0.
SWAN LAKE	2.90E+01	0.	0.	0.
TWIN LAKES LOWER L	2.50E+01	7.64E+02	0.55	1.83
TWIN LAKES UPPER L	2.50E+01	7.64E+02	0.55	1.83
DWORSHAK RES	3.20E+01	2.77E+03	0.36	-0.14
MANN'S LAKE	1.60E+01	1.50E+01	NA	0.5
MOOSE CREEK R	4.00E+01	0.	0.	0.
SOLDIERS MEADOW R	2.80E+01	NA	NA	NA
LAKE WAHA	2.30E+01	1.50E+01	NA	0.5
WINCHESTER L	2.50E+01	3.97E+02	-0.3	0.25
ALTURAS L	3.90E+01	0.	0.	0.
BAYHORSE L	2.30E+01	0.	0.	0.
GOOSE LAKE	3.90E+01	0.	0.	0.
PETIT L	3.50E+01	0.	0.	0.
REDFISH L	2.40E+01	4.00E+01	NA	NA
SEVEN DEVILS L	4.00E+01	0.	0.	0.
STANLEY L	2.00E+01	0.	0.	0.
TOLO L	1.50E+01	4.80E+01	0.	3.
WARM L	3.50E+01	2.10E+02	NA	0.31
WILLIAMS LAKE	1.50E+01	1.44E+02	NA	NA
BASIN L	3.50E+01	0.	0.	0.
BROWNLEE R	1.50E+01	2.32E+04	-0.12	0.11
ECHO L	3.50E+01	0.	0.	0.
GEM L	3.50E+01	0.	0.	0.
HEDEVIL L	3.50E+01	0.	0.	0.
HELLS CANYON R	1.50E+01	0.	0.	0.
LOWER BERNARD L	3.50E+01	0.	0.	0.
QXBOW RES	1.50E+01	6.40E+01	NA	NA
SHELF L	3.50E+01	0.	0.	0.



Table B-3. Lake Watershed: Use/Ownership/Activities (Continued)

	BURB	BAGRIC	BRAN	BFOR	BWAT	BWET	BBAR
UPPER BERNARD L	0.	0.	0.	1.	0.	0.	0.
ANDERSON RANCH R	0.	0.013196	0.353823	0.603902	0.008046	0.	0.028538
ARROWROCK R	0.	0.008467	0.341583	0.614229	0.00712	0.	0.0286
BLACK CANYON R	0.000516	0.061204	0.190443	0.714302	0.014218	0.006444	0.012244
CASCADE R	0.002225	0.133322	0.112346	0.658665	0.05085	0.027809	0.014302
C J STRIKE R	0.003415	0.204819	0.586359	0.096722	0.010608	0.003224	0.0925
CRANE CREEK R	0.	0.189751	0.79466	0.	0.015574	0.	0.
DEADWOOD R	0.	0.	0.02663	0.928371	0.041322	0.	0.003673
LAKE LOWELL	0.018484	0.388798	0.563104	0.	0.020622	0.008992	0.
LITTLE CAMAS R	0.	0.	0.762237	0.200466	0.037296	0.	0.
LUCKY PEAK R	0.000988	0.00723	0.313998	0.64538	0.008044	0.	0.024357
MANN'S CREEK R	0.	0.	0.609008	0.385585	0.005405	0.	0.
MOUNTAIN HOME R	0.	0.005482	0.978067	0.014095	0.002349	0.	0.
PAYETTE L	0.009845	0.003516	0.171588	0.755269	0.057665	0.	0.
SWAN FALLS R	0.003245	0.201006	0.599678	0.09249	0.010395	0.003063	0.087889
TRINITY L	0.	0.	1.	0.	0.	0.	0.
UPPER PAYETTE L	0.	0.	0.221662	0.760705	0.010076	0.	0.
AMERICAN FALLS R	0.002881	0.19408	0.412949	0.233442	0.022297	0.009877	0.120139
ASHTON R	0.	0.020589	0.258555	0.688518	0.022133	0.	0.008811
BLACKFOOT R	0.0013	0.132459	0.496212	0.32131	0.044534	0.004181	0.
GOLDEN LAKE	0.	0.05	0.95	0.	0.	0.	0.
CEDAR CREEK R	0.	0.	0.	1.	0.	0.	0.
HENRYS LAKE	0.	0.	0.571798	0.247995	0.103097	0.	0.061187
ISLAND PARK R	0.	0.020746	0.413501	0.506621	0.038726	0.	0.01762
LAKE WALCOTT	0.002266	0.211917	0.459673	0.183038	0.019002	0.007504	0.113307
LITTLE WOOD R	0.	0.035888	0.806727	0.12295	0.003738	0.	0.016635
HACKAY R	0.	0.063659	0.658979	0.200297	0.001779	0.	0.039077
MAGIC R	0.001427	0.171257	0.587662	0.203511	0.004281	0.	0.019516
MILNER R	0.003116	0.250333	0.462111	0.158303	0.017262	0.006407	0.099647
MORMON R	0.	0.136577	0.825741	0.	0.037676	0.	0.
MURTAUGH LAKE R	0.	0.37482	0.601293	0.011135	0.012751	0.	0.
PORTNEUF R	0.	0.134826	0.830357	0.01227	0.022542	0.	0.
RIRIE R	0.	0.157573	0.589288	0.172966	0.022476	0.057696	0.
SALMON FALLS R	0.	0.017395	0.962491	0.	0.020113	0.	0.
SILVER L	0.	0.	0.037439	0.938143	0.024417	0.	0.
WILSON LAKE R	0.	0.712692	0.200139	0.	0.043933	0.	0.
PALISADES R	0.043236	0.040265	0.295652	0.611935	0.035263	0.000953	0.015927
BEAR L	0.	0.043591	0.382902	0.178319	0.370828	0.024353	0.
DEEP CREEK R	0.	0.	0.943253	0.057077	0.	0.	0.
LAMONT R	0.	0.8125	0.	0.	0.1875	0.	0.
SODA POINT R	0.005721	0.233297	0.462607	0.187966	0.055022	0.055083	0.000303
TWIN LAKES R (NCRTH)	0.	0.768907	0.	0.	0.231092	0.	0.
TWIN LAKES R (SOUTH)	0.	0.768907	0.	0.	0.231092	0.	0.

Table B-3. Lake Watershed: Use/Ownership/Activities (Continued)

	BTUN	BAREA	WSFED	WSSTATE	WSPRIV	WSCTH	SED
UPPER BERNARD L	0.	0.34	1.	0.	0.	0.	0.
ANDERSON RANCH R	0.	9.32E+02	0.9	0.03	0.07	0.	1.
ARROWRCK R	0.	2.08E+03	0.9	0.05	0.05	0.	1.
BLACK CANYON R	0.000626	2.72E+03	0.85	0.05	0.1	0.	2.
CASCADE R	0.000477	6.29E+02	0.33	0.07	0.6	0.	1.
C J STRIKE R	0.002347	2.25E+04	0.8	0.1	0.08	0.02	1.
CRANE CREEK R	0.	2.44E+02	0.45	0.05	0.55	0.	2.
DEADWOOD R	0.	1.09E+02	1.	0.	0.	0.	0.
LAKE LOWELL	0.	5.00E+02	0.37	0.1	0.43	0.1	3.
LITTLE CAMAS R	0.	4.29E+01	0.4	0.1	0.5	0.	1.
LUCKY PEAK R	0.	2.53E+03	0.73	0.2	0.07	0.	3.
MANN'S CREEK R	0.	5.55E+01	0.65	0.05	0.3	0.	1.
MOUNTAIN HOME R	0.	1.28E+02	0.85	0.05	0.1	0.	1.
PAYETTE L	0.00211	1.42E+02	0.8	0.15	0.05	0.	0.
SWAN FALLS R	0.00223	2.37E+04	0.78	0.07	0.15	0.	1.
TRINITY L	0.	0.71	1.	0.	0.	0.	0.
UPPER PAYETTE L	0.007557	3.97E+01	NA	NA	NA	NA	0.
AMERICAN FALLS R	0.004331	7.36E+03	0.3	0.05	0.4	0.25	1.
ASHTON R	0.001393	1.06E+03	0.84	0.01	0.15	0.	1.
BLACKFCCT R	0.	5.69E+02	0.25	0.15	0.6	0.	0.
GOLDEN LAKE	0.	1.21E+02	0.8	0.	0.2	0.	0.
CEDAR CREEK R	0.	6.2	0.9	0.03	0.07	0.	1.
HENRYS LAKE	0.015919	9.23E+01	0.62	0.08	0.3	0.	0.
ISLAND PARK R	0.002785	5.28E+02	0.82	0.03	0.15	0.	0.
LAKE WALCOTT	0.004013	9.69E+03	0.7	0.05	0.25	0.	1.
LITTLE WOOD R	0.014019	2.67E+02	0.65	0.1	0.25	0.	0.
MACKAY R	0.036202	7.31E+02	0.85	0.05	0.15	0.	0.
MAGIC R	0.012345	1.40E+03	0.5	0.1	0.4	0.	1.
HILNER R	0.002809	1.13E+04	0.27	0.03	0.7	0.	1.
MORMON R	0.	6.37E+01	0.3	0.1	0.6	0.	1.
MURTAUGH LAKE R	0.	1.11E+02	0.45	0.05	0.5	0.	1.
PCRTNEUF R	0.	7.01E+01	0.03	0.	0.07	0.9	1.
RIRIE R	0.	5.78E+02	0.05	0.05	0.9	0.	0.
SALMON FALLS R	0.	1.29E+02	0.85	0.05	0.1	0.	1.
SILVER L	0.	1.84E+01	0.8	0.	0.2	0.	0.
WILSON LAKE R	0.	1.43E+01	0.13	0.02	0.85	0.	0.
PALISADES R	0.	6.72E+02	0.84	0.01	0.15	0.	0.
BEAR L	0.	1.47E+02	0.35	0.1	0.5	0.05	0.
DEEP CREEK R	0.	3.03E+01	0.45	0.05	0.5	0.	1.
LAMONT R	0.	0.8	0.4	0.	0.6	0.	1.
SODA POINT R	0.	1.15E+03	0.1	0.05	0.85	0.	1.
TWIN LAKES R (NCRTH)	0.	2.38	0.05	0.	0.95	0.	0.
TWIN LAKES R (SOUTH)	0.	2.38	0.	0.	1.	0.	0.

Table B-3. Lake Watershed: Use/Ownership/Activities (Continued)

	PRECIP	WSPDP80	WSG6070	WSG7080
UPPER BERNARD L	3.50E+01	0.	0.	0.
ANDERSON RANCH R	1.70E+01	8.70E+01	-0.24	0.04
ARROWROCK R	1.50E+01	3.74E+02	-0.11	1.17
BLACK CANYON R	1.50E+01	4.05E+03	-0.03	0.36
CASCADE R	2.00E+01	2.07E+03	-0.13	0.5
C. J. STRIKE R	1.00E+01	2.21E+04	-0.04	0.23
CRANE CREEK R	2.10E+01	2.70E+02	-0.12	-0.08
DEADWOOD R	3.00E+01	0.	0.	C.
LAKE LOWELL	1.00E+01	2.72E+04	0.1	0.21
LITTLE CAMAS R	1.40E+01	4.40E+01	-0.24	0.05
LUCKY PEAK R	1.50E+01	6.60E+02	-0.02	1.24
MANN'S CREEK R	2.00E+01	1.43E+02	-0.15	0.16
MOUNTAIN HOME R	1.00E+01	9.30E+01	0.13	0.82
PAYETTE L	2.80E+01	3.04E+03	0.14	0.43
SWAN FALLS R	1.00E+01	5.73E+02	0.11	0.39
TRINITY L	5.20E+01	0.	0.	0.
UPPER PAYETTE L	3.10E+01	NA	NA	NA
AMERICAN FALLS R	1.00E+01	1.08E+05	-0.06	0.26
ASHTON R	1.80E+01	1.22E+03	-0.04	0.03
BLACKFOOT R	2.00E+01	8.00E+02	NA	1.67
GOLDEN LAKE	2.50E+01	0.	0.	0.
CEDAR CREEK R	1.20E+01	3.20E+01	-0.18	1.46
HENRYS LAKE	2.50E+01	1.22E+02	-0.04	1.54
ISLAND PARK R	2.50E+01	4.54E+02	0.19	1.2
LAKE WALCOTT	1.00E+01	3.15E+03	-0.06	0.28
LITTLE WOOD R	1.30E+01	1.00E+01	NA	NA
MACKAY R	1.00E+01	3.50E+02	0.25	0.09
MAGIC R	1.20E+01	9.65E+03	0.22	0.9
HILNER R	1.10E+01	3.67E+04	0.08	0.19
MORMON R	1.20E+01	4.80E+01	-0.2	0.2
MURTAUGH LAKE R	1.30E+01	1.10E+03	-0.21	0.01
PCRTNEUF R	1.50E+01	0.	-1.	0.
RIRIE R	1.50E+01	9.25E+02	NA	1.68
SALMON FALLS R	1.20E+01	6.90E+01	0.05	0.68
SILVER L	2.50E+01	3.00E+01	-0.08	1.5
WILSON LAKE R	1.00E+01	4.96E+02	-0.09	0.25
PALISADES R	2.50E+01	6.90E+03	0.	0.5
BEAR L	1.00E+01	1.37E+03	-0.08	0.24
DEEP CREEK R	1.60E+01	4.00E+01	NA	NA
LAMONT R	1.70E+01	1.47E+02	-0.17	0.3
SODA POINT R	1.10E+01	8.91E+03	-0.03	C.28
TWIN LAKES R (NORTH)	1.50E+01	3.60E+01	-C.17	-0.05
TWIN LAKES R (SOUTH)	1.50E+01	3.60E+01	-0.17	-0.05

B-23

TABLE B-4

VARIABLES MEASURING CONDITIONS REPRESENTATIVE OF WATERSHEDS: COUNTY LEVEL  
 ACTIVITIES WHICH MAY BE SCALED DOWN AND ASSOCIATED WITH LAKE WATERSHEDS.

No.	Name	Definition/Units of Measure	Data Source
1.	POP:1977	1977 county population/person	(1)
2.	POP:1976	1976 county population/person	(1)
3.	POP:1970	1970 county population/person	(1)
4.	EMPLOY70	1970 total employment/person	(1)
5.	EMPLOY75	1975 total employment/person	(1)
6.	INCOME77	1977 total county personal income/\$	(1)
7.	INCI6977	Percentage change in personal income: 1969-1977/%	(1)
8.	NO BUS EST	No. of business establishments in county: 1974/#	(1)
9.	HSE UNITS	No. of housing units in county: 1970/#	(1)
10.	MOBILE HOME	No. of mobile homes in county: 1970/#	(1)
11.	POP/OCCUP HSE	Population per occupied housing unit in county: 1970/person	(1)
12.	HSE W/O PLUMB	No. of housing units lacking some or overall plumbing in county: 1970/#	(1)
13.	HSE PUB SEWR	No. of housing units on public sewer in county: 1970/#	(1)
14.	HSE SEPTK TK	No. of housing units on septic tank in county: 1970#	(1)
15.	HSE OTH DISP	No. of housing units on other plumbing in county: 1970/#	(1)
16.	TOTAL AREA	Total county area/acres	(1)
17.	LAND AREA	Total county land area/acres	(1)
18.	WATER AREA	Total county water area/acres	(1)
19.	LAND OWN:CITY	Land ownership: city/%	(1)
20.	LAND OWN:STATE	Land ownership: state/%	(1)
21.	LAND OWN:FED	Land ownership: federal/%	(1)
22.	LAND OWN:PRIV	Land ownership: private/%	(1)
23.	LU76:URB	1976 land use: urban/%	(1)
24.	LU76:WAT	1976 land use: water/%	(1)
25.	LU76:WET	1976 land use: wetland/%	(1)
26.	LU76:BAR	1976 land use: barren/%	(1)
27.	LU76:RAN	1976 land use: range/%	(1)
28.	LU76:FOR	1976 land use: forest/%	(1)
29.	LU76:AGRIC	1976 land use: agriculture/%	(1)
30.	LU76:OTH	1976 land use: other/%	(1)
31.	LU76:CROP	1976 land use: cropland/%	(1)
32.	LU76:GRAZ	1976 land use: grazingland/%	(1)
33.	NO FARMS:69	No. of farms: 1969/#	(2)
34.	NO FARMS:74	No. of farms: 1974/#	(2)
35.	FARM ACRES:69	Acres in farms: 1969/#	(2)
36.	FARM ACRES:74	Acres in farms: 1974/#	(2)
37.	ACRES IRRIG	Land irrigated/acres	(2)
38.	WATER APPLIED	Average water applied in irrigation/acre feet/acre	(2)
39.	EXP ON FERT	Expenditures on commercial fertilizer: 1974/(\$1,000)	(2)
40.	EXP ON AG CHEM	Expenditures on agricultural chemicals: 1975/(\$1,000)	(2)
41.	EXP ON FUEL	Expenditures on agricultural fuel: 1974/(\$1,000)	(2)
42.	AU	Animal units (1974)/# of horses x 1.5 + # cattle	(2)
43.	HOGS	Hogs and pigs inventory: 1974/#	(2)
44.	SHEEP	Sheep and lambs inventory: 1974/#	(2)
45.	CHICK	Poultry inventory: 1974/#	(2)

## Notes:

1. County Profile of Idaho, State Government and Idaho Statistical Abstract, 1980, University of Idaho.
2. Census of Agriculture

Table B-4. Variables Measuring Conditions Representative of Watershed:  
County Level Activities Which May be Scaled and Associated with Lake Watersheds.

	POP:1977	POP:1976	POP:1970	EMPLOY70	EMPLOY75	INCOME77	INCI6977
MACARTHUR L	6.40E+03	6.53E+03	6.37E+03	2.17E+03	2.49E+03	3.76E+04	1.49E+02
MYRTLE L	6.40E+03	6.53E+03	6.37E+03	2.17E+03	2.49E+03	3.76E+04	1.49E+02
PERKINS L	6.40E+03	6.53E+03	6.37E+03	2.17E+03	2.49E+03	3.76E+04	1.49E+02
COCOLALLA L	2.10E+04	1.97E+04	1.56E+04	5.31E+03	6.09E+03	1.06E+05	1.88E+02
HOODOO L	2.10E+04	1.97E+04	1.56E+04	5.31E+03	6.09E+03	1.06E+05	1.88E+02
LOWER PRIEST L	2.10E+04	1.97E+04	1.56E+04	5.31E+03	6.09E+03	1.06E+05	1.88E+02
LAKE PEND OREILLE ROUND L	2.10E+04	1.97E+04	1.56E+04	5.31E+03	6.09E+03	1.06E+05	1.88E+02
SPIRIT LAKE	4.94E+04	4.73E+04	3.53E+04	1.18E+04	1.52E+04	2.96E+05	1.83E+02
UPPER PRIEST L	2.10E+04	1.97E+04	1.56E+04	5.31E+03	6.09E+03	1.06E+05	1.88E+02
BENEWAH L	7.50E+03	7.28E+03	6.23E+03	2.27E+03	2.75E+03	4.22E+04	1.43E+02
CAVE L	4.94E+04	4.73E+04	3.53E+04	1.18E+04	1.52E+04	2.96E+05	1.83E+02
LAKE CHATCOLET	7.50E+03	7.28E+03	6.23E+03	2.27E+03	2.75E+03	4.22E+04	1.43E+02
LAKE COEUR D'ALENE	4.94E+04	4.73E+04	3.53E+04	1.18E+04	1.52E+04	2.96E+05	1.83E+02
FERNAN L	4.94E+04	4.73E+04	3.53E+04	1.18E+04	1.52E+04	2.96E+05	1.83E+02
HAUSER L	4.94E+04	4.73E+04	3.53E+04	1.18E+04	1.52E+04	2.96E+05	1.83E+02
HAYDEN L	4.94E+04	4.73E+04	3.53E+04	1.18E+04	1.52E+04	2.96E+05	1.83E+02
ROSE L	4.94E+04	4.73E+04	3.53E+04	1.18E+04	1.52E+04	2.96E+05	1.83E+02
STEVENS L	1.88E+04	1.89E+04	1.97E+04	8.24E+03	8.85E+03	1.15E+05	8.60E+01
SWAN LAKE	7.50E+03	7.28E+03	6.23E+03	2.27E+03	2.75E+03	4.22E+04	1.43E+02
TWIN LAKES LOWER L	4.94E+04	4.73E+04	3.53E+04	1.18E+04	1.52E+04	2.96E+05	1.83E+02
TWIN LAKES UPPER L	4.94E+04	4.73E+04	3.53E+04	1.18E+04	1.52E+04	2.96E+05	1.83E+02
DWURSHAK RES	9.80E+03	9.62E+03	1.09E+04	5.50E+03	4.32E+03	5.63E+04	6.60E+01
MANN'S LAKE	3.01E+04	3.07E+04	3.04E+04	1.39E+04	1.64E+04	2.21E+05	1.23E+02
MOUSE CREEK R	2.72E+04	2.72E+04	2.49E+04	9.09E+03	1.09E+04	1.56E+05	1.25E+02
SOLDIERS MEADOW R	3.01E+04	3.07E+04	3.04E+04	1.39E+04	1.64E+04	2.21E+05	1.23E+02
LAKE WAHA	3.01E+04	3.07E+04	3.04E+04	1.39E+04	1.64E+04	2.21E+05	1.23E+02
WINCHESTER L	4.20E+03	4.51E+03	3.87E+03	1.69E+03	1.77E+03	2.81E+04	8.70E+01
ALTURAS L	8.80E+03	8.36E+03	5.75E+03	3.16E+03	4.78E+03	5.49E+04	1.88E+02
BAYHORSE L	3.30E+03	3.31E+03	2.97E+03	1.25E+03	1.39E+03	1.51E+04	1.10E+02
GOOSE LAKE	1.93E+04	1.88E+04	1.70E+04	7.86E+03	9.12E+03	9.64E+04	9.20E+01
PETIT L	8.80E+03	8.36E+03	5.75E+03	3.16E+03	4.78E+03	5.49E+04	1.88E+02
REDFISH L	3.30E+03	3.31E+03	2.97E+03	1.25E+03	1.39E+03	1.51E+04	1.10E+02
SEVEN DEVILS L	1.31E+04	1.29E+04	1.29E+04	4.87E+03	5.08E+03	7.75E+04	1.15E+02
STANLEY L	3.30E+03	3.31E+03	2.97E+03	1.25E+03	1.39E+03	1.51E+04	1.10E+02
TOLO L	1.31E+04	1.29E+04	1.29E+04	4.87E+03	5.08E+03	7.75E+04	1.15E+02
WARM L	4.60E+03	4.46E+03	3.61E+03	1.83E+03	2.10E+03	2.94E+04	1.34E+02
WILLIAMS LAKE	6.90E+03	6.48E+03	5.57E+03	2.11E+03	2.44E+03	3.37E+04	1.42E+02
BASIN L	1.31E+04	1.29E+04	1.29E+04	4.87E+03	5.08E+03	7.75E+04	1.15E+02
BROWNLEE R	8.90E+03	8.51E+03	7.63E+03	2.83E+03	3.35E+03	4.39E+04	1.16E+02
ECHO L	1.31E+04	1.29E+04	1.29E+04	4.87E+03	5.08E+03	7.75E+04	1.15E+02
GEM L	1.31E+04	1.29E+04	1.29E+04	4.87E+03	5.08E+03	7.75E+04	1.15E+02
HEDEVIL L	1.31E+04	1.29E+04	1.29E+04	4.87E+03	5.08E+03	7.75E+04	1.15E+02
HELLS CANYON R	3.30E+03	3.12E+03	2.88E+03	1.23E+03	1.43E+03	1.99E+04	1.07E+02
LOWER BERNARD L	4.60E+03	4.46E+03	3.61E+03	1.83E+03	2.10E+03	2.94E+04	1.34E+02
OXBOW RES	3.30E+03	3.12E+03	2.88E+03	1.23E+03	1.43E+03	1.99E+04	1.07E+02
SHELF L	1.31E+04	1.29E+04	1.29E+04	4.87E+03	5.08E+03	7.75E+04	1.15E+02

Table B-4. Variables Measuring Conditions Representative of Watershed: County Level Activities Which May be Scaled and Associated with Lake Watersheds (continued).

	NO BUS EST	HSE UNITS	MOBILE HOME	POP/OCCUP HSE	HSE W/O PLUMB	HSE PUB SEWR	HSE SEPTK TK
MACARTHUR L	1.38E+02	2.18E+03	9.50E+01	3.1	1.17E+02	9.66E+02	1.12E+03
MYRTLE L	1.38E+02	2.18E+03	9.50E+01	3.1	1.17E+02	9.66E+02	1.12E+03
PERKINS L	1.38E+02	2.18E+03	9.50E+01	3.1	1.17E+02	9.66E+02	1.12E+03
COCOLALLA L	4.12E+02	7.43E+03	4.29E+02	3.3	5.53E+02	2.36E+03	3.22E+03
HOODOO L	4.12E+02	7.43E+03	4.29E+02	3.3	5.53E+02	2.36E+03	3.22E+03
LOWER PRIEST L	4.12E+02	7.43E+03	4.29E+02	3.3	5.53E+02	2.36E+03	3.22E+03
LAKE PEND OREILLE	4.12E+02	7.43E+03	4.29E+02	3.3	5.53E+02	2.36E+03	3.22E+03
ROUND L	4.12E+02	7.43E+03	4.29E+02	3.3	5.53E+02	2.36E+03	3.22E+03
SPIRIT LAKE	9.62E+02	1.47E+04	9.93E+02	3.3	5.48E+02	5.48E+03	7.21E+03
UPPER PRIEST L	4.12E+02	7.43E+03	4.29E+02	3.3	5.53E+02	2.36E+03	3.22E+03
BENEWAH L	1.75E+02	2.36E+03	2.71E+02	3.3	2.87E+02	1.11E+03	1.06E+03
CAVE L	9.62E+02	1.47E+04	9.93E+02	3.3	5.48E+02	5.48E+03	7.21E+03
LAKE CHATCOLET	1.75E+02	2.36E+03	2.71E+02	3.3	2.87E+02	1.11E+03	1.06E+03
LAKE COEUR D'ALENE	9.62E+02	1.47E+04	9.93E+02	3.3	5.48E+02	5.48E+03	7.21E+03
FERNAN L	9.62E+02	1.47E+04	9.93E+02	3.3	5.48E+02	5.48E+03	7.21E+03
HAUSER L	9.62E+02	1.47E+04	9.93E+02	3.3	5.48E+02	5.48E+03	7.21E+03
HAYDEN L	9.62E+02	1.47E+04	9.93E+02	3.3	5.48E+02	5.48E+03	7.21E+03
ROSE L	9.62E+02	1.47E+04	9.93E+02	3.3	5.48E+02	5.48E+03	7.21E+03
STEVENS L	3.61E+02	6.82E+03	4.20E+02	3.1	3.12E+02	4.23E+03	2.14E+03
SWAN LAKE	1.75E+02	2.36E+03	2.71E+02	3.3	2.87E+02	1.11E+03	1.06E+03
TWIN LAKES LOWER L	9.62E+02	1.47E+04	9.93E+02	3.3	5.48E+02	5.48E+03	7.21E+03
TWIN LAKES UPPER L	9.62E+02	1.47E+04	9.93E+02	3.3	5.48E+02	5.48E+03	7.21E+03
DWORSHAK RES	2.29E+02	3.63E+03	8.10E+02	3.1	3.61E+02	2.41E+03	1.03E+03
MANN'S LAKE	9.06E+02	1.07E+04	5.20E+02	3.3	4.37E+02	7.62E+03	2.92E+03
MOUSE CREEK R	5.43E+02	8.06E+03	6.74E+02	2.9	5.16E+02	5.40E+03	2.24E+03
SOLDIERS MEADOW R	9.06E+02	1.07E+04	5.20E+02	3.3	4.37E+02	7.62E+03	2.92E+03
LAKE WAHA	9.06E+02	1.07E+04	5.20E+02	3.3	4.37E+02	7.62E+03	2.92E+03
WINCHESTER L	1.17E+02	1.41E+03	1.18E+02	3.1	4.10E+01	8.21E+02	5.38E+02
ALTURAS L	2.86E+02	3.06E+03	2.25E+02	2.9	2.65E+02	4.86E+02	2.30E+03
BAYHORSE L	6.80E+01	1.32E+03	1.11E+02	3.3	1.57E+02	4.72E+02	5.45E+02
GOOSE LAKE	3.94E+02	5.37E+03	2.82E+02	3.4	1.79E+02	2.67E+03	2.48E+03
PETIT L	2.86E+02	3.06E+03	2.25E+02	2.9	2.65E+02	4.86E+02	2.30E+03
REDFISH L	6.80E+01	1.32E+03	1.11E+02	3.3	1.57E+02	4.72E+02	5.45E+02
SEVEN DEVILS L	2.73E+02	4.27E+03	4.76E+02	3.3	3.79E+02	2.01E+03	1.96E+03
STANLEY L	6.80E+01	1.32E+03	1.11E+02	3.3	1.57E+02	4.72E+02	5.45E+02
TOLD L	2.73E+02	4.27E+03	4.76E+02	3.3	3.79E+02	2.01E+03	1.96E+03
WARM L	1.38E+02	2.18E+03	8.20E+01	3.1	6.10E+01	1.09E+03	4.13E+02
WILLIAMS LAKE	1.61E+02	2.25E+03	2.01E+02	3.3	2.93E+02	6.47E+02	1.26E+03
BASIN L	2.73E+02	4.27E+03	4.76E+02	3.3	3.79E+02	2.01E+03	1.96E+03
BROWNLEE R	1.72E+02	2.86E+03	1.28E+02	2.9	2.38E+02	1.67E+03	1.04E+03
ECHO L	2.73E+02	4.27E+03	4.76E+02	3.3	3.79E+02	2.01E+03	1.96E+03
GEN L	2.73E+02	4.27E+03	4.76E+02	3.3	3.79E+02	2.01E+03	1.96E+03
HEDEVIL L	2.73E+02	4.27E+03	4.76E+02	3.3	3.79E+02	2.01E+03	1.96E+03
HELLS CANYON R	5.60E+01	1.15E+03	1.36E+02	3.1	1.10E+02	5.54E+02	4.99E+02
LOWER BERNARD L	1.38E+02	2.18E+03	8.20E+01	3.1	6.10E+01	1.09E+03	4.13E+02
OXBOW RES	5.60E+01	1.15E+03	1.36E+02	3.1	1.10E+02	5.54E+02	4.99E+02
SHELF L	2.73E+02	4.27E+03	4.76E+02	3.3	3.79E+02	2.01E+03	1.96E+03

Table B-4. Variables Measuring Conditions Representative of Watershed: County Level Activities Which May be Scaled and Associated with Lake Watersheds (continued).

	HSE OTH DISP	TOTAL AREA	LAND AREA	WATER AREA	LAND OWN: CITY	LAND OWN: STATE	LAND OWN: FED
MACARTHUR L	7.90E+01	8.22E+05	8.16E+05	5.80E+03	0.2	1.19E+01	5.83E+01
MYRTLE L	7.90E+01	8.22E+05	8.16E+05	5.80E+03	0.2	1.19E+01	5.83E+01
PERKINS L	7.90E+01	8.22E+05	8.16E+05	5.80E+03	0.2	1.19E+01	5.83E+01
COCOLALLA L	3.56E+02	1.22E+06	1.11E+06	1.11E+05	0.8	1.37E+01	4.04E+01
HCOOCO L	3.56E+02	1.22E+06	1.11E+06	1.11E+05	0.8	1.37E+01	4.04E+01
LOWER PRIEST L	3.56E+02	1.22E+06	1.11E+06	1.11E+05	0.8	1.37E+01	4.04E+01
LAKE PEND OREILLE ROUND L	3.56E+02	1.22E+06	1.11E+06	1.11E+05	0.8	1.37E+01	4.04E+01
SPIRIT LAKE	3.08E+02	8.38E+05	7.99E+05	3.83E+04	0.5	4.7	3.33E+01
UPPER PRIEST L	3.56E+02	1.22E+06	1.11E+06	1.11E+05	0.8	1.37E+01	4.04E+01
BENEWAH L	1.41E+02	5.08E+05	5.04E+05	3.70E+03	0.4	9.1	1.25E+01
CAVE L	3.08E+02	8.38E+05	7.99E+05	3.83E+04	0.5	4.7	3.33E+01
LAKE CHATCOLET	1.41E+02	5.08E+05	5.04E+05	3.70E+03	0.4	9.1	1.25E+01
LAKE COEUR D'ALENE	3.08E+02	8.38E+05	7.99E+05	3.83E+04	0.5	4.7	3.33E+01
FERNAN L	3.08E+02	8.38E+05	7.99E+05	3.83E+04	0.5	4.7	3.33E+01
HAUSER L	3.08E+02	8.38E+05	7.99E+05	3.83E+04	0.5	4.7	3.33E+01
HAYDEN L	3.08E+02	8.38E+05	7.99E+05	3.83E+04	0.5	4.7	3.33E+01
ROSE L	3.08E+02	8.38E+05	7.99E+05	3.83E+04	0.5	4.7	3.33E+01
STEVENS L	3.79E+02	1.67E+06	1.67E+06	0.	0.2	3.7	7.44E+01
SWAN LAKE	1.41E+02	5.08E+05	5.04E+05	3.70E+03	0.4	9.1	1.25E+01
TWIN LAKES LOWER L	3.08E+02	8.38E+05	7.99E+05	3.83E+04	0.5	4.7	3.33E+01
TWIN LAKES UPPER L	3.08E+02	8.38E+05	7.99E+05	3.83E+04	0.5	4.7	3.33E+01
DWORSHAK RES	1.77E+02	1.61E+06	1.60E+06	1.40E+04	0.1	1.42E+01	5.23E+01
MANN'S LAKE	1.36E+02	5.46E+05	5.40E+05	5.60E+03	0.9	4.1	1.64E+01
MOOSE CREEK R	4.19E+02	6.98E+05	6.98E+05	0.	0.5	5.6	4.1
SOLDIERS MEADOW R	1.36E+02	5.46E+05	5.40E+05	5.60E+03	0.9	2.6	1.64E+01
LAKE WAHA	1.36E+02	5.46E+05	5.40E+05	5.60E+03	0.9	2.6	4.1
WINCHESTER L	3.20E+01	3.06E+05	3.04E+05	2.10E+03	0.2	0.9	2.5
ALTURAS L	1.68E+02	1.71E+06	1.69E+06	1.20E+04	0.3	4.7	7.67E+01
BAYHORSE L	1.38E+02	3.16E+06	3.15E+06	4.50E+03	0.1	1.7	9.33E+01
GOOSE LAKE	1.21E+02	1.64E+06	1.63E+06	1.02E+04	0.1	3.4	5.68E+01
PETIT L	1.68E+02	1.71E+06	1.69E+06	1.20E+04	0.3	4.7	7.67E+01
REDFISH L	1.38E+02	3.16E+06	3.15E+06	4.50E+03	0.1	1.7	9.33E+01
SEVEN DEVILS L	2.66E+02	5.45E+06	5.45E+06	2.70E+03	0.1	1.6	8.31E+01
STANLEY L	1.38E+02	3.16E+06	3.15E+06	4.50E+03	0.1	1.7	9.33E+01
TULO L	2.66E+02	5.45E+06	5.45E+06	2.70E+03	0.1	1.6	8.31E+01
WARM L	6.20E+01	2.39E+06	2.35E+06	3.44E+04	0.1	3.2	8.77E+01
WILLIAMS LAKE	2.71E+02	2.93E+06	2.93E+06	1.30E+03	0.1	1.5	9.04E+01
BASIN L	2.66E+02	5.45E+06	5.45E+06	2.70E+03	0.1	1.6	8.31E+01
BROWNLEE R	1.46E+02	9.48E+05	9.36E+05	1.22E+04	0.3	6.7	3.70E+01
ECHO L	2.66E+02	5.45E+06	5.45E+06	2.70E+03	0.1	1.6	8.31E+01
GEM L	2.66E+02	5.45E+06	5.45E+06	2.70E+03	0.1	1.6	8.31E+01
HEDEVIL L	2.66E+02	5.45E+06	5.45E+06	2.70E+03	0.1	1.6	8.31E+01
HELLS CANYON R	8.10E+01	8.82E+05	8.78E+05	4.00E+03	0.2	5.7	6.33E+01
LOWER BERNARD L	6.20E+01	2.39E+06	2.35E+06	3.44E+04	0.1	3.2	8.77E+01
OXBOW RES	8.10E+01	8.82E+05	8.78E+05	4.00E+03	0.2	5.7	6.33E+01
SHELF L	2.66E+02	5.45E+06	5.45E+06	2.70E+03	0.1	1.6	8.31E+01

Table B-4. Variables Measuring Conditions Representative of Watershed: County Level Activities Which May be Scaled and Associated with Lake Watersheds (continued).

	LAND OWN:PRIV	LU76:URB	LU76:WAT	LU76:WET	LU76:BAR	LU76:RAN	LU76:FOR
MACARTHUR L	2.96E+01	0.3	0.7	0.	0.	0.	9.04E+01
MYRTLE L	2.96E+01	0.3	0.7	0.	0.	0.	9.04E+01
PERKINS L	2.96E+01	0.3	0.7	0.	0.	0.	9.04E+01
COCOLALLA L	4.51E+01	0.3	9.1	0.1	0.	0.	8.48E+01
HOODOO L	4.51E+01	0.3	9.1	0.1	0.	0.	8.48E+01
LOWER PRIEST L	4.51E+01	0.3	9.1	0.1	0.	0.	8.48E+01
LAKE PEND GREILLE	4.51E+01	0.3	9.1	0.1	0.	0.	8.48E+01
ROUND L	4.51E+01	0.3	9.1	0.1	0.	0.	8.48E+01
SPIRIT LAKE	6.15E+01	2.7	4.6	1.2	0.	0.	7.69E+01
UPPER PRIEST L	4.51E+01	0.3	9.1	0.1	0.	0.	8.48E+01
BENEWAH L	7.80E+01	0.3	0.7	0.2	0.	7.1	7.61E+01
CAVE L	6.15E+01	2.7	4.6	1.2	0.	0.	7.69E+01
LAKE CHATCOLET	7.80E+01	0.3	0.7	0.2	0.	7.1	7.61E+01
LAKE COEUR D'ALENE	6.15E+01	2.7	4.6	1.2	0.	0.	7.69E+01
FERNAN L	6.15E+01	2.7	4.6	1.2	0.	0.	7.69E+01
HAUSER L	6.15E+01	2.7	4.6	1.2	0.	0.	7.69E+01
HAYDEN L	6.15E+01	2.7	4.6	1.2	0.	0.	7.69E+01
ROSE L	6.15E+01	2.7	4.6	1.2	0.	0.	7.69E+01
STEVENS L	2.17E+01	1.4	0.	0.	0.	2.3	9.62E+01
SWAN LAKE	7.80E+01	0.3	0.7	0.2	0.	7.1	7.61E+01
TWIN LAKES LOWER L	6.15E+01	2.7	4.6	1.2	0.	0.	7.69E+01
TWIN LAKES UPPER L	6.15E+01	2.7	4.6	1.2	0.	0.	7.69E+01
DWORSHAK RES	3.34E+01	0.2	0.9	0.	0.	5.1	9.14E+01
MANN'S LAKE	9.24E+01	1.4	0.	0.	0.	2.98E+01	1.91E+01
MOOSE CREEK R	7.75E+01	0.5	1.	0.	0.	3.7	5.76E+01
SOLDIERS MEADOW R	9.24E+01	1.4	1.	0.	0.	2.98E+01	1.91E+01
LAKE WAHA	9.24E+01	1.4	1.	0.	0.	2.98E+01	1.91E+01
WINCHESTER L	9.66E+01	0.1	0.7	0.	0.	2.08E+01	1.98E+01
ALTURAS L	1.83E+01	0.2	0.7	0.	1.86E+01	6.07E+01	1.40E+01
BAYHORSE L	4.9	0.	0.1	3.5	0.	4.60E+01	4.66E+01
GOOSE LAKE	3.97E+01	0.4	0.6	0.	0.5	6.79E+01	2.9
PETIT L	1.83E+01	0.2	0.7	0.	1.86E+01	6.07E+01	1.40E+01
REDFISH L	4.9	0.	0.1	3.5	0.	4.60E+01	4.66E+01
SEVEN DEVILS L	1.52E+01	0.1	0.1	0.	0.	1.71E+01	7.76E+01
STANLEY L	4.9	0.	0.1	3.5	0.	4.60E+01	4.66E+01
TOLO L	1.52E+01	0.1	0.1	0.	0.	1.71E+01	7.76E+01
WARM L	9.	0.1	1.4	0.5	0.4	1.02E+01	8.42E+01
WILLIAMS LAKE	8.30001	0.05	0.05	0.	1.8	3.15E+01	6.18E+01
BASIN L	1.52E+01	0.1	0.1	0.	0.	1.71E+01	7.76E+01
BROWNLEE R	5.60E+01	0.4	1.3	0.	0.	7.46E+01	9.9
ECHO L	1.52E+01	0.1	0.1	0.	0.	1.71E+01	7.76E+01
GEM L	1.52E+01	0.1	0.1	0.	0.	1.71E+01	7.76E+01
HEDEVIL L	1.52E+01	0.1	0.1	0.	0.	1.71E+01	7.76E+01
HELLS CANYON R	3.38E+01	0.1	0.5	0.	0.	3.23E+01	6.03E+01
LOWER BERNARD L	9.	0.1	1.4	0.5	0.4	1.02E+01	8.42E+01
OXBOW RES	3.08E+01	0.1	0.5	0.	0.	3.23E+01	6.03E+01
SHELF L	1.52E+01	0.1	0.1	0.	0.	1.71E+01	7.76E+01



Table B-4. Variables Measuring Conditions Representative of Watershed: County Level Activities Which May be Scaled and Associated with Lake Watersheds (continued).

	LU76:OTH	LU76:CROP	LU76:GRAZ	LU76:GRAZ E	NO FARMS:69	NO FARMS:74	FARM ACRES:69
MACARTHUR L	8.6	1.00001	7.5422	1.0578	3.08E+02	2.50E+02	9.55E+04
MYRTLE L	8.6	1.00001	7.5422	1.0578	3.08E+02	2.50E+02	9.55E+04
PERKINS L	8.6	1.00001	7.5422	1.0578	3.08E+02	2.50E+02	9.55E+04
COCOLALLA L	5.7	9.50001	4.4346	1.2654	5.02E+02	4.29E+02	1.66E+05
HOODOO L	5.7	9.50001	4.4346	1.2654	5.02E+02	4.29E+02	1.66E+05
LOWER PRIEST L	5.7	9.50001	4.4346	1.2654	5.02E+02	4.29E+02	1.66E+05
LAKE PEND OREILLE	5.7	9.50001	4.4346	1.2654	5.02E+02	4.29E+02	1.66E+05
ROUND L	5.7	9.50001	4.4346	1.2654	5.02E+02	4.29E+02	1.66E+05
SPIRIT LAKE	1.46E+01	8.50001	1.28E+01	1.7666	5.22E+02	4.55E+02	1.98E+05
UPPER PRIEST L	5.7	9.50001	4.4346	1.2654	5.02E+02	4.29E+02	1.66E+05
BENEWAH L	1.56E+01	1.20001	1.40E+01	1.5756	2.18E+02	1.94E+02	1.49E+05
CAVE L	1.46E+01	8.50001	1.28E+01	1.7666	5.22E+02	4.55E+02	1.98E+05
LAKE CHATCOLET	1.56E+01	1.20001	1.40E+01	1.5756	2.18E+02	1.94E+02	1.49E+05
LAKE COEUR D'ALENE	1.46E+01	8.50001	1.28E+01	1.7666	5.22E+02	4.55E+02	1.98E+05
FERNAN L	1.46E+01	8.50001	1.28E+01	1.7666	5.22E+02	4.55E+02	1.98E+05
HAUSER L	1.46E+01	8.50001	1.28E+01	1.7666	5.22E+02	4.55E+02	1.98E+05
HAYDEN L	1.46E+01	8.50001	1.28E+01	1.7666	5.22E+02	4.55E+02	1.98E+05
ROSE L	1.46E+01	8.50001	1.28E+01	1.7666	5.22E+02	4.55E+02	1.98E+05
STEVENS L	0.1	1.4	0.0989	0.0011	5.20E+01	4.00E+01	1.41E+04
SWAN LAKE	1.56E+01	1.20001	1.40E+01	1.5756	2.18E+02	1.94E+02	1.49E+05
TWIN LAKES LOWER L	1.46E+01	8.50001	1.28E+01	1.7666	5.22E+02	4.55E+02	1.98E+05
TWIN LAKES UPPER L	1.46E+01	8.50001	1.28E+01	1.7666	5.22E+02	4.55E+02	1.98E+05
DWORSHAK RES	2.4	1.10001	1.9992	0.4008	2.23E+02	2.17E+02	1.67E+05
MANN'S LAKE	4.87E+01	2.40005	4.58E+01	2.8733	4.92E+02	4.72E+02	5.17E+05
MOOSE CREEK R	3.82E+01	0.500014	3.61E+01	2.101	7.68E+02	6.65E+02	3.91E+05
SOLDIERS MEADOW R	4.87E+01	2.40005	4.58E+01	2.8733	4.92E+02	4.72E+02	5.17E+05
LAKE WAHA	4.87E+01	2.40005	4.58E+01	2.8733	4.92E+02	4.72E+02	5.17E+05
WINCHESTER L	5.86E+01	J.800057	5.67E+01	1.9338	2.75E+02	2.50E+02	2.46E+05
ALTURAS L	5.8	1.95E+01	4.495	1.305	2.24E+02	2.14E+02	2.50E+05
BAYHCRSE L	3.8	3.60001	3.0248	0.7752	2.05E+02	2.01E+02	1.50E+05
GOOSE LAKE	2.77E+01	1.50001	2.42E+01	3.5456	9.02E+02	8.65E+02	5.96E+05
PETIT L	5.8	1.95E+01	4.495	1.305	2.24E+02	2.14E+02	2.50E+05
REDFISH L	3.8	3.60001	3.0248	0.7752	2.05E+02	2.01E+02	1.50E+05
SEVEN DEVILS L	5.2	0.10002	4.2744	0.925599	7.35E+02	6.91E+02	7.79E+05
STANLEY L	3.8	3.60001	3.0248	0.7752	2.05E+02	2.01E+02	1.50E+05
TOLO L	5.2	0.10002	4.2744	0.925599	7.35E+02	6.91E+02	7.79E+05
WARM L	3.2	2.4	2.576	0.624	1.14E+02	9.70E+01	9.20E+04
WILLIAMS LAKE	4.4	2.30002	3.1636	1.2364	2.89E+02	2.62E+02	2.26E+05
BASIN L	5.2	0.10002	4.2744	0.925599	7.35E+02	6.91E+02	7.79E+05
BROWNLEE R	1.38E+01	1.7	9.8256	3.9744	5.29E+02	5.03E+02	6.15E+05
ECHO L	5.2	0.10002	4.2744	0.925599	7.35E+02	6.91E+02	7.79E+05
GEM L	5.2	0.10002	4.2744	0.925599	7.35E+02	6.91E+02	7.79E+05
HEDEVIL L	5.2	0.10002	4.2744	0.925599	7.35E+02	6.91E+02	7.79E+05
HELLS CANYON R	6.8	0.600028	4.3656	2.4344	1.82E+02	1.41E+02	2.38E+05
LOWER BERNARD L	3.2	2.4	2.576	0.624	1.14E+02	9.70E+01	9.20E+04
OXBOW RES	6.8	0.600028	4.3656	2.4344	1.82E+02	1.41E+02	2.38E+05
SHELF L	5.2	0.10002	4.2744	0.925599	7.35E+02	6.91E+02	7.79E+05

Table B-4. Variables Measuring Conditions Representative of Watershed: County Level Activities Which May be Scaled and Associated with Lake Watersheds (continued).

	FARM ACRES:74	ACRES IRRIG	WATER APPLIED	EXP ON FERT	EXP ON AG CHEM	EXP ON FUEL	AU
MACARTHUR L	8.06E+04	5.60E+02	1.1	3.83E+02	7.90E+01	2.76E+02	1.29E+04
MYRTLE L	8.06E+04	5.60E+02	1.1	3.83E+02	7.90E+01	2.76E+02	1.29E+04
PERKINS L	8.06E+04	5.60E+02	1.1	3.83E+02	7.90E+01	2.76E+02	1.29E+04
COCOLALLA L	1.49E+05	7.13E+03	1.8	1.95E+02	9.	2.18E+02	1.98E+04
HCCDUO L	1.49E+05	7.13E+03	1.8	1.95E+02	9.	2.18E+02	1.98E+04
LOWER PRIEST L	1.49E+05	7.13E+03	1.8	1.95E+02	9.	2.18E+02	1.98E+04
LAKE PEND OREILLE	1.49E+05	7.13E+03	1.8	1.95E+02	9.	2.18E+02	1.98E+04
ROUND L	1.49E+05	7.13E+03	1.8	1.95E+02	9.	2.18E+02	1.98E+04
SPIRIT LAKE	2.20E+05	1.90E+04	2.5	1.94E+03	2.47E+02	5.31E+02	1.42E+04
UPPER PRIEST L	1.49E+05	7.13E+03	1.8	1.95E+02	9.	2.18E+02	1.98E+04
BENEWAH L	1.29E+05	2.07E+02	1.	1.21E+03	2.00E+02	3.51E+02	7.30E+03
CAVE L	2.20E+05	1.90E+04	2.5	1.94E+03	2.47E+02	5.31E+02	1.42E+04
LAKE CHATCOLET	1.29E+05	2.07E+02	1.	1.21E+03	2.00E+02	3.51E+02	7.30E+03
LAKE COEUR D'ALENE	2.20E+05	1.90E+04	2.5	1.94E+03	2.47E+02	5.31E+02	1.42E+04
FERNAN L	2.20E+05	1.90E+04	2.5	1.94E+03	2.47E+02	5.31E+02	1.42E+04
HAUSER L	2.20E+05	1.90E+04	2.5	1.94E+03	2.47E+02	5.31E+02	1.42E+04
HAYDEN L	2.20E+05	1.90E+04	2.5	1.94E+03	2.47E+02	5.31E+02	1.42E+04
ROSE L	2.20E+05	1.90E+04	2.5	1.94E+03	2.47E+02	5.31E+02	1.42E+04
STEVENS L	1.06E+04	9.45E+02	2.	3.	NA	1.10E+01	1.07E+03
SWAN LAKE	1.29E+05	2.07E+02	1.	1.21E+03	2.00E+02	3.51E+02	7.30E+03
TWIN LAKES LOWER L	2.20E+05	1.90E+04	2.5	1.94E+03	2.47E+02	5.31E+02	1.42E+04
TWIN LAKES UPPER L	2.20E+05	1.90E+04	2.5	1.94E+03	2.47E+02	5.31E+02	1.42E+04
DWORSHAK RES	1.62E+05	1.59E+02	1.	2.84E+02	7.10E+01	1.83E+02	8.35E+03
MANN'S LAKE	5.12E+05	1.19E+03	2.1	2.55E+03	8.94E+02	1.23E+03	3.11E+04
MOOSE CREEK R	3.69E+05	3.32E+02	1.4	4.07E+03	8.89E+02	1.16E+03	1.92E+04
SOLDIERS MEADOW R	5.12E+05	1.19E+03	2.1	2.55E+03	8.94E+02	1.23E+03	3.11E+04
LAKE WAHA	5.12E+05	1.19E+03	2.1	2.55E+03	8.94E+02	1.23E+03	3.11E+04
WINCHESTER L	2.44E+05	1.85E+02	3.2	1.69E+03	3.99E+02	6.15E+02	1.03E+04
ALTURAS L	2.62E+05	3.90E+04	2.6	4.38E+02	3.80E+01	4.40E+02	2.77E+04
BAYHORSE L	1.41E+05	4.42E+04	3.	1.85E+02	1.90E+01	3.51E+02	4.23E+04
GOOSE LAKE	6.78E+05	2.03E+05	2.7	6.91E+03	1.28E+03	2.72E+03	1.11E+05
PETIT L	2.62E+05	3.90E+04	2.6	4.38E+02	3.80E+01	4.40E+02	2.77E+04
REDFISH L	1.41E+05	4.42E+04	3.	1.85E+02	1.90E+01	3.51E+02	4.23E+04
SEVEN DEVILS L	8.15E+05	7.25E+03	2.3	1.67E+03	3.61E+02	1.12E+03	5.94E+04
STANLEY L	1.41E+05	4.42E+04	3.	1.85E+02	1.90E+01	3.51E+02	4.23E+04
TOLD L	8.15E+05	7.25E+03	2.3	1.67E+03	3.61E+02	1.12E+03	5.94E+04
WARM L	1.07E+05	1.83E+04	2.4	1.29E+02	1.10E+01	1.33E+02	1.13E+04
WILLIAMS LAKE	2.02E+05	6.84E+04	2.6	9.60E+01	1.00E+01	4.24E+02	5.34E+04
BASIN L	8.15E+05	7.25E+03	2.3	1.67E+03	3.61E+02	1.12E+03	5.94E+04
BROWNLEE R	5.19E+05	3.43E+04	2.7	1.10E+03	2.09E+02	8.27E+02	5.58E+04
ECHO L	8.15E+05	7.25E+03	2.3	1.67E+03	3.61E+02	1.12E+03	5.94E+04
GEM L	8.15E+05	7.25E+03	2.3	1.67E+03	3.61E+02	1.12E+03	5.94E+04
HEDEVIL L	8.15E+05	7.25E+03	2.3	1.67E+03	3.61E+02	1.12E+03	5.94E+04
HELLS CANYON R	1.79E+05	1.38E+04	1.6	4.60E+01	2.	2.19E+02	2.14E+04
LOWER BERNARD L	1.07E+05	1.83E+04	2.4	1.29E+02	1.10E+01	1.33E+02	1.13E+04
QXBOW RES	1.79E+05	1.38E+04	1.6	4.60E+01	2.	2.19E+02	2.14E+04
SHELF L	8.15E+05	7.25E+03	2.3	1.67E+03	3.61E+02	1.12E+03	5.94E+04

Table B-4. Variables Measuring Conditions Representative of Watershed: County Level Activities Which May be Scaled and Associated with Lake Watersheds (continued).

	HOGS	SHEEP	CHICK
MACARTHUR L	1.22E+03	1.26E+02	1.69E+03
MYRTLE L	1.22E+03	1.26E+02	1.69E+03
PERKINS L	1.22E+03	1.26E+02	1.69E+03
COCOLALLA L	6.81E+02	6.68E+02	4.48E+03
HOODOO L	6.81E+02	6.68E+02	4.48E+03
LOWER PRIEST L	6.81E+02	6.68E+02	4.48E+03
LAKE PEND OREILLE	6.81E+02	6.68E+02	4.48E+03
ROUND L	6.81E+02	6.68E+02	4.48E+03
SPIRIT LAKE	1.83E+03	8.10E+02	1.65E+04
UPPER PRIEST L	6.81E+02	6.68E+02	4.48E+03
BENEWAH L	6.61E+02	3.40E+01	1.85E+03
CAVE L	1.83E+03	8.10E+02	1.65E+04
LAKE CHATCOLET	6.61E+02	3.40E+01	1.85E+03
LAKE COEUR D'ALENE	1.83E+03	8.10E+02	1.65E+04
FERNAN L	1.83E+03	8.10E+02	1.65E+04
HAUSER L	1.83E+03	8.10E+02	1.65E+04
HAYDEN L	1.83E+03	8.10E+02	1.65E+04
ROSE L	1.83E+03	8.10E+02	1.65E+04
STEVENS L	8.70E+01	4.10E+01	3.68E+02
SWAN LAKE	6.61E+02	3.40E+01	1.85E+03
TWIN LAKES LOWER L	1.83E+03	8.10E+02	1.65E+04
TWIN LAKES UPPER L	1.83E+03	8.10E+02	1.65E+04
DWORSHAK RES	1.73E+03	1.94E+02	3.89E+03
MANN'S LAKE	7.10E+03	4.57E+02	1.40E+04
MOOSE CREEK R	2.79E+03	6.53E+02	1.42E+04
SOLDIERS MEADOW R	7.10E+03	4.57E+02	1.40E+04
LAKE WAHA	7.10E+03	4.57E+02	1.40E+04
WINCHESTER L	7.90E+02	2.26E+02	9.63E+02
ALTURAS L	3.95E+02	5.42E+04	NA
BAYHORSE L	1.03E+03	1.45E+04	1.36E+03
GOOSE LAKE	3.69E+03	3.22E+04	1.95E+03
PETIT L	3.95E+02	5.42E+04	NA
REDFISH L	1.03E+03	1.45E+04	1.36E+03
SEVEN DEVILS L	9.67E+03	1.73E+04	1.98E+04
STANLEY L	1.03E+03	1.45E+04	1.36E+03
TOLO L	9.67E+03	1.73E+04	1.98E+04
WARM L	1.60E+01	9.90E+01	1.63E+03
WILLIAMS LAKE	6.19E+02	9.18E+03	2.39E+03
BASIN L	9.67E+03	1.73E+04	1.98E+04
BROWNLEE R	1.73E+03	1.67E+04	3.28E+03
ECHO L	9.67E+03	1.73E+04	1.98E+04
GEM L	9.67E+03	1.73E+04	1.98E+04
HEDEVIL L	9.67E+03	1.73E+04	1.98E+04
HELLS CANYON R	1.77E+02	2.21E+02	8.69E+02
LOWER BERNARD L	1.60E+01	9.90E+01	1.63E+03
OXBOW RES	1.77E+02	2.21E+02	8.69E+02
SHELF L	9.67E+03	1.73E+04	1.98E+04

Table B-4. Variables Measuring Conditions Representative of Watershed: County Level Activities Which May be Scaled and Associated with Lake Watersheds (continued).

	POP:1977	POP:1976	POP:1970	EMPLOY70	EMPLCY75	INCOME77	INC16977
UPPER BERNARD L	4.60E+03	4.46E+03	3.61E+03	1.83E+03	2.10E+03	2.94E+04	1.34E+02
ANDERSON RANCH R	2.10E+04	2.01E+04	1.75E+04	7.91E+03	9.19E+03	1.11E+05	1.10E+02
ARROWROCK R	2.10E+04	2.01E+04	1.75E+04	7.91E+03	9.19E+03	1.11E+05	1.10E+02
BLACK CANYON R	1.10E+04	1.07E+04	9.39E+03	3.67E+03	4.01E+03	5.70E+04	1.36E+02
CASCADE R	4.60E+03	4.46E+03	3.61E+03	1.83E+03	2.10E+03	2.94E+04	1.34E+02
C J STRIKE R	7.70E+03	7.79E+03	6.42E+03	2.22E+03	2.51E+03	2.75E+04	6.70E+01
CRANE CREEK R	8.90E+03	8.51E+03	7.63E+03	2.83E+03	3.35E+03	4.39E+04	1.16E+02
DEADWOOD R	4.60E+03	4.46E+03	3.61E+03	1.83E+03	2.10E+03	2.94E+04	1.34E+02
LAKE LOWELL	7.54E+04	7.36E+04	6.13E+04	2.59E+04	3.15E+04	4.28E+05	1.52E+02
LITTLE CAMAS R	2.10E+04	2.01E+04	1.75E+04	7.91E+03	9.19E+03	1.11E+05	1.10E+02
LUCKY PEAK R	1.46E+05	1.40E+05	1.12E+05	5.32E+04	6.87E+04	1.12E+06	1.78E+02
MANN'S CREEK R	8.90E+03	8.51E+03	7.63E+03	2.83E+03	3.35E+03	4.39E+04	1.16E+02
MOUNTAIN HOME R	2.10E+04	2.01E+04	1.75E+04	7.91E+03	9.19E+03	1.11E+05	1.10E+02
PAYETTE L	4.60E+03	4.46E+03	3.61E+03	1.83E+03	2.10E+03	2.94E+04	1.34E+02
SWAN FALLS R	1.46E+05	1.40E+05	1.12E+05	5.32E+04	6.87E+04	1.12E+06	1.78E+02
TRINITY L	2.10E+04	2.01E+04	1.75E+04	7.91E+03	9.19E+03	1.11E+05	1.10E+02
UPPER PAYETTE L	4.60E+03	4.46E+03	3.61E+03	1.83E+03	2.10E+03	2.94E+04	1.34E+02
AMERICAN FALLS R	6.10E+03	5.54E+03	4.86E+03	3.62E+03	4.55E+03	2.99E+04	1.01E+02
ASHTON R	1.05E+04	1.02E+04	8.71E+03	3.22E+03	4.03E+03	4.54E+04	9.70E+01
BLACKFOOT R	8.30E+03	8.03E+03	6.53E+03	2.86E+03	4.26E+03	4.66E+04	1.15E+02
GOLDEN LAKE	1.05E+04	1.02E+04	8.71E+03	3.22E+03	4.03E+03	4.54E+04	9.70E+01
CEDAR CREEK R	4.80E+04	4.74E+04	4.18E+04	1.87E+04	2.27E+04	3.05E+05	1.40E+02
HENRYS LAKE	1.05E+04	1.02E+04	8.71E+03	3.22E+03	4.03E+03	4.54E+04	9.70E+01
ISLAND PARK R	1.05E+04	1.02E+04	8.71E+03	3.22E+03	4.03E+03	4.54E+04	9.70E+01
LAKE WALCOTT	1.93E+04	1.88E+04	1.70E+04	7.86E+03	9.12E+03	9.64E+04	9.20E+01
LITTLE WOOD R	8.80E+03	8.36E+03	5.75E+03	3.16E+03	4.78E+03	5.49E+04	1.88E+02
MACKAY R	3.30E+03	3.31E+03	2.97E+03	1.25E+03	1.39E+03	1.51E+04	1.10E+02
MAGIC R	8.80E+03	8.36E+03	5.75E+03	3.16E+03	4.78E+03	5.49E+04	1.88E+02
MILNER R	4.80E+04	4.74E+04	4.18E+04	1.87E+04	2.27E+04	3.05E+05	1.40E+02
NORMON R	8.00E+02	8.59E+02	7.28E+02	3.83E+02	4.35E+02	5.58E+03	8.70E+01
MURTAUGH LAKE R	4.80E+04	4.74E+04	4.18E+04	1.87E+04	2.27E+04	3.05E+05	1.40E+02
PORTNEUF R	8.30E+03	8.03E+03	6.53E+03	2.86E+03	4.26E+03	4.66E+04	1.15E+02
RIRIE R	6.10E+04	5.93E+04	5.12E+04	2.30E+04	2.82E+04	3.97E+05	1.41E+02
SALMON FALLS R	4.80E+04	4.74E+04	4.18E+04	1.87E+04	2.27E+04	3.05E+05	1.40E+02
SILVER L	1.05E+04	1.02E+04	8.71E+03	3.22E+03	4.03E+03	4.54E+04	9.70E+01
WILSON LAKE R	1.40E+04	1.38E+04	1.03E+04	3.87E+03	5.54E+03	6.93E+04	1.69E+02
PALISADES R	6.10E+04	5.93E+04	5.12E+04	2.30E+04	2.82E+04	3.97E+05	1.41E+02
BEAR L	7.10E+03	6.64E+03	5.80E+03	2.05E+03	2.28E+03	3.62E+04	1.23E+02
DEEP CREEK R	3.40E+03	3.25E+03	2.86E+03	1.48E+03	1.53E+03	1.68E+04	8.20E+01
LAMONT R	8.60E+03	8.24E+03	7.37E+03	2.82E+03	2.90E+03	4.15E+04	1.31E+02
SODA POINT R	8.30E+03	8.03E+03	6.53E+03	2.86E+03	4.26E+03	4.66E+04	1.15E+02
TWIN LAKES R (NORTH)	8.60E+03	8.24E+03	7.37E+03	2.82E+03	2.90E+03	4.15E+04	1.31E+02
TWIN LAKES R (SOUTH)	8.60E+03	8.24E+03	7.37E+03	2.82E+03	2.90E+03	4.15E+04	1.31E+02

Table B-4. Variables Measuring Conditions Representative of Watershed: County Level Activities Which May be Scaled and Associated with Lake Watersheds (continued).

	NO BUS EST	HSE UNITS	MOBILE HOME	PCP/OCCUP HSE	HSE W/D PLUMB	HSE PUB SEWR	HSE SEPTK TK
UPPER BERNARD L	1.38E+02	2.43E+03	8.20E+01	3.1	6.10E+01	1.09E+03	4.13E+02
ANDERSON RANCH R	2.59E+02	5.29E+03	6.22E+02	3.4	2.51E+02	3.79E+03	1.26E+03
ARROWROCK R	2.59E+02	5.29E+03	6.22E+02	3.4	2.51E+02	3.79E+03	1.26E+03
BLACK CANYON R	1.85E+02	3.33E+03	1.51E+02	3.1	2.08E+02	1.44E+03	1.57E+03
CASCADE R	1.38E+02	2.43E+03	8.20E+01	3.1	6.10E+01	1.09E+03	4.13E+02
C J STRIKE R	1.19E+02	2.13E+03	2.19E+02	3.3	2.40E+02	7.67E+02	1.13E+03
CRANE CREEK R	1.72E+02	2.86E+03	1.28E+02	2.9	2.38E+02	1.67E+03	1.04E+03
DEADWOOD R	1.38E+02	2.43E+03	8.20E+01	3.1	6.10E+01	1.09E+03	4.13E+02
LAKE LOWELL	1.39E+03	2.03E+04	1.13E+03	3.1	7.12E+02	1.21E+04	7.81E+03
LITTLE CAMAS R	2.59E+02	5.29E+03	6.22E+02	3.4	2.51E+02	3.79E+03	1.26E+03
LUCKY PEAK R	3.49E+03	3.71E+04	2.43E+03	3.1	6.84E+02	2.22E+04	1.47E+04
HANN'S CREEK R	1.72E+02	2.86E+03	1.28E+02	2.9	2.38E+02	1.67E+03	1.04E+03
MOUNTAIN HOME R	2.59E+02	5.29E+03	6.22E+02	3.4	2.51E+02	3.79E+03	1.26E+03
PAYETTE L	1.38E+02	2.43E+03	8.20E+01	3.1	6.10E+01	1.09E+03	4.13E+02
SWAN FALLS R	3.49E+03	3.71E+04	2.43E+03	3.1	6.84E+02	2.22E+04	1.47E+04
TRINITY L	2.59E+02	5.29E+03	6.22E+02	3.4	2.51E+02	3.79E+03	1.26E+03
UPPER PAYETTE L	1.38E+02	2.43E+03	8.20E+01	3.1	6.10E+01	1.09E+03	4.13E+02
AMERICAN FALLS R	1.08E+02	1.61E+03	2.49E+02	3.4	6.20E+01	9.78E+02	5.33E+02
ASHTCN R	2.07E+02	3.65E+03	1.63E+02	3.4	2.89E+02	1.31E+03	2.11E+03
BLACKFOOT R	1.72E+02	2.18E+03	1.68E+02	3.6	6.80E+01	1.37E+03	6.27E+02
GOLDEN LAKE	2.07E+02	3.65E+03	1.63E+02	3.4	2.89E+02	1.31E+03	2.11E+03
CEDAR CREEK R	1.24E+03	1.49E+04	5.13E+02	3.4	4.71E+02	9.92E+03	4.68E+03
HENRYS LAKE	2.07E+02	3.65E+03	1.63E+02	3.4	2.89E+02	1.31E+03	2.11E+03
ISLAND PARK R	2.07E+02	3.65E+03	1.63E+02	3.4	2.89E+02	1.31E+03	2.11E+03
LAKE WALCOTT	3.94E+02	5.37E+03	2.82E+02	3.4	1.79E+02	2.67E+03	2.48E+03
LITTLE WOOD R	2.86E+02	3.06E+03	2.25E+02	2.9	2.65E+02	4.86E+02	2.30E+03
MACKAY R	6.80E+01	1.32E+03	1.11E+02	3.3	1.57E+02	4.72E+02	5.45E+02
MAGIC R	2.86E+02	3.06E+03	2.25E+02	2.9	2.65E+02	4.86E+02	2.30E+03
MILNER R	1.24E+03	1.49E+04	5.13E+02	3.4	4.71E+02	9.92E+03	4.68E+03
HORMON R	1.90E+01	3.37E+02	4.	3.5	5.40E+01	1.29E+02	1.18E+02
MURTAUGH LAKE R	1.24E+03	1.49E+04	5.13E+02	3.4	4.71E+02	9.92E+03	4.68E+03
PORTNEUF R	1.72E+02	2.18E+03	1.68E+02	3.6	6.80E+01	1.37E+03	6.27E+02
RIRIE R	1.34E+03	1.57E+04	7.52E+02	3.5	2.66E+02	1.16E+04	3.74E+03
SALMON FALLS R	1.24E+03	1.49E+04	5.13E+02	3.4	4.71E+02	9.92E+03	4.68E+03
SILVER L	2.07E+02	3.65E+03	1.63E+02	3.4	2.89E+02	1.31E+03	2.11E+03
WILSON LAKE R	2.43E+02	3.64E+03	1.27E+02	3.1	1.39E+02	1.82E+03	1.68E+03
PALISADES R	1.34E+03	1.57E+04	7.52E+02	3.5	2.66E+02	1.16E+04	3.74E+03
BEAR L	1.27E+02	2.17E+03	5.50E+01	3.2	1.09E+02	1.11E+03	8.88E+02
DEEP CREEK R	6.90E+01	1.23E+03	5.	3.3	1.01E+02	7.09E+02	3.46E+02
LAMONT R	1.45E+02	2.46E+03	2.00E+01	3.4	7.70E+01	1.12E+03	1.24E+03
SODA POINT R	1.72E+02	2.18E+03	1.68E+02	3.6	6.80E+01	1.37E+03	6.27E+02
TWIN LAKES R (NORTH)	1.45E+02	2.46E+03	2.00E+01	3.4	7.70E+01	1.12E+03	1.24E+03
TWIN LAKES R (SOUTH)	1.45E+02	2.46E+03	2.00E+01	3.4	7.70E+01	1.12E+03	1.24E+03

Table B-4. Variables Measuring Conditions Representative of Watershed: County Level Activities Which May be Scaled and Associated with Lake Watersheds (continued).

	HSE OTH DISP	TOTAL AREA	LAND AREA	WATER AREA	LAND OWN: CITY	LAND OWN: STATE	LAND OWN: FED
UPPER BERNARD L	6.20E+01	2.39E+06	2.35E+06	3.44E+04	0.1	3.2	8.77E+01
ANDERSON RANCH R	1.89E+02	1.97E+06	1.95E+06	1.89E+04	0.	6.6	7.36E+01
ARROWROCK R	1.89E+02	1.97E+06	1.95E+06	1.89E+04	0.	6.6	7.36E+01
BLACK CANYON R	1.59E+02	3.58E+05	3.55E+05	3.00E+03	0.5	6.4	3.76E+01
CASCADE R	6.20E+01	2.39E+06	2.35E+06	3.44E+04	0.1	3.2	8.77E+01
C J STRIKE R	2.00E+02	4.90E+06	4.89E+06	1.42E+04	0.	6.8	7.73E+01
CRANE CREEK R	1.46E+02	9.48E+05	9.36E+05	1.22E+04	0.3	6.7	3.70E+01
DEADWOOD R	6.20E+01	2.39E+06	2.35E+06	3.44E+04	0.1	3.2	8.77E+01
LAKE LOWELL	2.17E+02	3.78E+05	3.70E+05	7.80E+03	0.2	0.7	4.4
LITTLE CAMAS R	1.89E+02	1.97E+06	1.95E+06	1.89E+04	0.	6.6	7.36E+01
LUCKY PEAK R	2.05E+02	6.72E+05	6.68E+05	3.90E+03	1.2	6.8	4.62E+01
MANN'S CREEK R	1.46E+02	9.48E+05	9.36E+05	1.22E+04	0.3	6.7	3.70E+01
MOUNTAIN HOME R	1.89E+02	1.97E+06	1.95E+06	1.89E+04	0.	6.6	7.36E+01
PAYETTE L	6.20E+01	2.39E+06	2.35E+06	3.44E+04	0.1	3.2	8.77E+01
SWAN FALLS R	2.05E+02	6.72E+05	6.68E+05	3.90E+03	1.2	6.8	4.62E+01
TRINITY L	1.89E+02	1.97E+06	1.95E+06	1.89E+04	0.	6.6	7.36E+01
UPPER PAYETTE L	6.20E+01	2.39E+06	2.35E+06	3.44E+04	0.1	3.2	8.77E+01
AMERICAN FALLS R	6.40E+01	9.29E+05	9.04E+05	2.44E+04	0.3	5.2	3.29E+01
ASHTON R	1.97E+02	1.21E+06	1.19E+06	1.92E+04	0.	9.2	5.95E+01
BLACKFOOT R	1.02E+02	1.14E+06	1.12E+06	2.23E+04	0.2	1.01E+01	4.03E+01
GOLDEN LAKE	1.97E+02	1.21E+06	1.19E+06	1.92E+04	0.	9.2	5.95E+01
CEDAR CREEK R	2.16E+02	1.26E+06	1.25E+06	8.20E+03	0.3	2.4	5.18E+01
HENRYS LAKE	1.97E+02	1.21E+06	1.19E+06	1.92E+04	0.	9.2	5.95E+01
ISLAND PARK R	1.97E+02	1.21E+06	1.19E+06	1.92E+04	0.	9.2	5.95E+01
LAKE WALCOTT	1.21E+02	1.64E+06	1.63E+06	1.02E+04	0.1	3.4	5.68E+01
LITTLE WOOD R	1.68E+02	1.71E+06	1.69E+06	1.20E+04	0.3	4.7	7.67E+01
MACKAY R	1.38E+02	3.16E+06	3.15E+06	4.50E+03	0.1	1.7	9.33E+01
MAGIC R	1.68E+02	1.71E+06	1.69E+06	1.20E+04	0.3	4.7	7.67E+01
MILNER R	2.16E+02	1.26E+06	1.25E+06	8.20E+03	0.3	2.4	5.18E+01
MORMON R	5.70E+01	6.77E+05	6.75E+05	2.10E+03	0.4	3.	6.53E+01
MURTAUGH LAKE R	2.16E+02	1.26E+06	1.25E+06	8.20E+03	0.3	2.4	5.18E+01
PORTNEUF R	1.02E+02	1.14E+06	1.12E+06	2.23E+04	0.2	1.01E+01	4.03E+01
RIRIE R	1.24E+02	1.20E+06	1.17E+06	2.66E+04	0.5	4.4	5.28E+01
SALMON FALLS R	2.16E+02	1.26E+06	1.25E+06	8.20E+03	0.3	2.4	5.18E+01
SILVER L	1.97E+02	1.21E+06	1.19E+06	1.92E+04	0.	9.2	5.95E+01
WILSON LAKE R	7.30E+01	3.83E+05	3.81E+05	2.50E+03	0.7	1.7	2.69E+01
PALISADES R	1.24E+02	1.20E+06	1.17E+06	2.66E+04	0.5	4.4	5.28E+01
BEAR L	1.08E+02	6.69E+05	6.30E+05	3.89E+04	0.	2.9	4.58E+01
DEEP CREEK R	1.02E+02	7.63E+05	7.62E+05	1.00E+03	0.	1.8	5.37E+01
LAMONT R	8.20E+01	4.28E+05	4.25E+05	3.20E+03	0.	3.2	3.28E+01
SODA POINT R	1.02E+02	1.14E+06	1.12E+06	2.23E+04	0.2	1.01E+01	4.03E+01
TWIN LAKES R (NORTH)	8.20E+01	4.28E+05	4.25E+05	3.20E+03	0.	3.2	3.28E+01
TWIN LAKES R (SOUTH)	8.20E+01	4.28E+05	4.25E+05	3.20E+03	0.	3.2	3.28E+01

Table B-4. Variables Measuring Conditions Representative of Watershed: County Level Activities Which May be Scaled and Associated with Lake Watersheds (continued).

	LAND OWN:PRIV	LU76:URB	LU76:WAT	LU76:WET	LU76:BAR	LU76:RAN	LU76:FOR
UPPER BERNARD L	9.	0.1	1.4	0.5	0.4	1.02E+01	8.42E+01
ANDERSON RANCH R	1.98E+01	0.6	1.	0.	0.	6.59E+01	2.55E+01
ARROWRCK R	1.98E+01	0.6	1.	0.	0.	6.59E+01	2.55E+01
BLACK CANYON R	5.55E+01	0.5	0.8	0.	0.	6.63E+01	1.39E+01
CASCADE R	9.	0.1	1.4	0.5	0.4	1.02E+01	8.42E+01
C J STRIKE R	1.59E+01	0.	0.3	0.	0.2	9.35E+01	2.1
CRANE CREEK R	5.60E+01	0.4	1.3	0.	0.	7.46E+01	9.9
DEADWOOD R	9.	0.1	1.4	0.5	0.4	1.02E+01	8.42E+01
LAKE LUWELL	9.47E+01	2.9	2.	0.	0.	7.7	3.
LITTLE CAMAS R	1.98E+01	0.6	1.	0.	0.	6.59E+01	2.55E+01
LUCKY PEAK R	4.58E+01	4.5	0.6	0.	0.	6.90E+01	0.3
MANN'S CREEK R	5.60E+01	0.4	1.3	0.	0.	7.46E+01	9.9
MOUNTAIN HOME R	1.98E+01	0.6	1.	0.	0.	6.59E+01	2.55E+01
PAYETTE L	9.	0.1	1.4	0.5	0.4	1.02E+01	8.42E+01
SWAN FALLS R	4.58E+01	4.5	0.6	0.	0.	6.90E+01	0.3
TRINITY L	1.98E+01	0.6	1.	0.	0.	6.59E+01	2.55E+01
UPPER PAYETTE L	9.	0.1	1.4	0.5	0.4	1.02E+01	8.42E+01
AMERICAN FALLS R	6.16E+01	0.7	2.5	0.	1.28E+01	3.98E+01	3.3
ASHTON R	3.13E+01	0.1	1.6	0.	3.6	3.26E+01	4.49E+01
BLACKFOOT R	4.94E+01	0.4	2.	0.5	0.2	6.73E+01	3.3
GOLDEN LAKE	3.13E+01	0.1	1.6	0.	3.6	3.26E+01	4.49E+01
CEDAR CREEK R	4.55E+01	0.6	0.7	0.	0.	6.83E+01	0.7
HENRYS LAKE	3.13E+01	0.1	1.6	0.	3.6	3.26E+01	4.49E+01
ISLAND PARK R	3.13E+01	0.1	1.6	0.	3.6	3.26E+01	4.49E+01
LAKE WALCOTT	3.97E+01	0.4	0.6	0.	0.5	6.79E+01	2.9
LITTLE WOOD R	1.83E+01	0.2	0.7	0.	1.86E+01	6.07E+01	1.40E+01
MACKAY R	4.9	0.	0.1	3.5	0.	4.60E+01	4.66E+01
MAGIC R	1.83E+01	0.2	0.7	0.	1.86E+01	6.07E+01	1.40E+01
MILNER R	4.55E+01	0.6	0.7	0.	0.	6.83E+01	0.7
MORMON R	3.13E+01	0.1	0.3	0.	0.4	5.92E+01	2.20E+01
MURTAUGH LAKE R	4.55E+01	0.6	0.7	0.	0.	6.83E+01	0.7
PORTNEUF R	4.94E+01	0.4	2.	0.5	0.2	6.73E+01	3.3
RIRIE R	4.23E+01	1.1	2.2	1.6	5.5	2.78E+01	3.26E+01
SALMON FALLS R	4.55E+01	0.6	0.7	0.	0.	6.83E+01	0.7
SILVER L	3.13E+01	0.1	1.6	0.	3.6	3.26E+01	4.49E+01
WILSON LAKE R	7.07E+01	0.8	0.7	0.	2.80E+01	1.82E+01	0.
PALISADES R	4.23E+01	1.1	2.2	1.6	5.5	2.78E+01	3.26E+01
BEAR L	5.13E+01	0.3	5.8	6.2	0.	4.89E+01	1.93E+01
DEEP CREEK R	4.45E+01	0.1	0.1	0.	0.	6.39E+01	4.2
LAHONT R	6.40E+01	0.3	0.5	0.9	0.7	2.47E+01	2.63E+01
SODA POINT R	4.94E+01	0.4	2.	0.5	0.2	6.73E+01	3.3
TWIN LAKES R (NORTH)	6.40E+01	0.3	0.5	0.9	0.7	2.47E+01	2.63E+01
TWIN LAKES R (SOUTH)	6.40E+01	0.3	0.5	0.9	0.7	2.47E+01	2.63E+01

Table B-4. Variables Measuring Conditions Representative of Watershed: County Level Activities Which May be Scaled and Associated with Lake Watersheds (continued).

	LU76:OTH	LU76:CROP	LU76:GRAZ	LU76:GRAZ E	NO FARMS:69	NO FARMS:74	FARM ACRES:69
UPPER BERNARD L	3.2	2.4	2.576	0.624	1.14E+02	9.70E+01	9.20E+04
ANDERSON RANCH R	7.	1.60001	6.293	0.707	2.42E+02	2.56E+02	3.98E+05
ARROWROCK R	7.	1.60001	6.293	0.707	2.42E+02	2.56E+02	3.98E+05
BLACK CANYON R	1.85E+01	1.30001	1.38E+01	4.662	5.84E+02	4.92E+02	3.27E+05
CASCADE R	3.2	2.4	2.576	0.624	1.14E+02	9.70E+01	9.20E+04
C J STRIKE R	3.9	0.499996	3.2487	0.6513	5.36E+02	5.53E+02	6.48E+05
CRANE CREEK R	1.38E+01	1.7	9.8256	3.9744	5.29E+02	5.03E+02	6.15E+05
DEADWOOD R	3.2	2.4	2.576	0.624	1.14E+02	9.70E+01	9.20E+04
LAKE LOWELL	8.44E+01	4.90004	7.45E+01	9.8748	2.39E+03	2.11E+03	3.13E+05
LITTLE CAMAS R	7.	1.60001	6.293	0.707	2.42E+02	2.56E+02	3.98E+05
LUCKY PEAK R	2.56E+01	5.10001	2.21E+01	3.5328	1.52E+03	1.29E+03	3.21E+05
MANN'S CREEK R	1.38E+01	1.7	9.8256	3.9744	5.29E+02	5.03E+02	6.15E+05
MOUNTAIN HOME R	7.	1.60001	6.293	0.707	2.42E+02	2.56E+02	3.98E+05
PAYETTE L	3.2	2.4	2.576	0.624	1.14E+02	9.70E+01	9.20E+04
SWAN FALLS R	2.56E+01	5.10001	2.21E+01	3.5328	1.52E+03	1.29E+03	3.21E+05
TRINITY L	7.	1.60001	6.293	0.707	2.42E+02	2.56E+02	3.98E+05
UPPER PAYETTE L	3.2	2.4	2.576	0.624	1.14E+02	9.70E+01	9.20E+04
AMERICAN FALLS R	4.09E+01	1.60E+01	3.82E+01	2.6585	3.34E+02	3.36E+02	4.55E+05
ASHTON R	1.72E+01	5.30002	1.50E+01	2.2188	6.00E+02	5.60E+02	4.02E+05
BLACKFOOT R	2.63E+01	3.10004	2.41E+01	2.2092	4.79E+02	4.50E+02	6.07E+05
GOLDEN LAKE	1.72E+01	5.30002	1.50E+01	2.2188	6.00E+02	5.60E+02	4.02E+05
CEDAR CREEK R	2.97E+01	1.30002	2.52E+01	4.4847	1.74E+03	1.62E+03	5.40E+05
HENRYS LAKE	1.72E+01	5.30002	1.50E+01	2.2188	6.00E+02	5.60E+02	4.02E+05
ISLAND PARK R	1.72E+01	5.30002	1.50E+01	2.2188	6.00E+02	5.60E+02	4.02E+05
LAKE WALCOTT	2.77E+01	1.50001	2.42E+01	3.5456	9.02E+02	8.65E+02	5.96E+05
LITTLE WOOD R	5.8	1.95E+01	4.495	1.305	2.24E+02	2.14E+02	2.50E+05
MACKAY R	3.8	3.60001	3.0248	0.7752	2.05E+02	2.01E+02	1.50E+05
MAGIC R	5.8	1.95E+01	4.495	1.305	2.24E+02	2.14E+02	2.50E+05
MILNER R	2.97E+01	1.30002	2.52E+01	4.4847	1.74E+03	1.62E+03	5.40E+05
HORMON R	1.80E+01	0.800017	1.65E+01	1.53	1.05E+02	9.80E+01	1.65E+05
MURTAUGH LAKE R	2.97E+01	1.30002	2.52E+01	4.4847	1.74E+03	1.62E+03	5.40E+05
PORTNEUF R	2.63E+01	3.10004	2.41E+01	2.2092	4.79E+02	4.50E+02	6.07E+05
RIRIE R	2.92E+01	1.04E+01	2.67E+01	2.4528	1.01E+03	9.03E+02	5.31E+05
SALMON FALLS R	2.97E+01	1.30002	2.52E+01	4.4847	1.74E+03	1.62E+03	5.40E+05
SILVER L	1.72E+01	5.30002	1.50E+01	2.2188	6.00E+02	5.60E+02	4.02E+05
WILSON LAKE R	5.23E+01	2.95E+01	4.64E+01	5.8576	8.64E+02	8.32E+02	2.08E+05
PALISADES R	2.92E+01	1.04E+01	2.67E+01	2.4528	1.01E+03	9.03E+02	5.31E+05
BEAR L	1.95E+01	1.23E+01	1.60E+01	3.549	4.80E+02	4.84E+02	3.13E+05
DEEP CREEK R	3.17E+01	0.200007	2.95E+01	2.219	3.96E+02	3.66E+02	3.41E+05
LAMONT R	4.66E+01	2.40006	4.56E+01	1.0252	7.32E+02	6.52E+02	2.65E+05
SODA POINT R	2.63E+01	3.10004	2.41E+01	2.2092	4.79E+02	4.50E+02	6.07E+05
TWIN LAKES R (NCRTH)	4.66E+01	2.40006	4.56E+01	1.0252	7.32E+02	6.52E+02	2.65E+05
TWIN LAKES R (SOUTH)	4.66E+01	2.40006	4.56E+01	1.0252	7.32E+02	6.52E+02	2.65E+05



Table B-4. Variables Measuring Conditions Representative of Watershed: County Level Activities Which May be Scaled and Associated with Lake Watersheds (continued).

	FARM ACRES:74	ACRES IRRIG	WATER APPLIED	EXP ON FERT	EXP ON AG CHEM	EXP ON FUEL	AU
UPPER BERNARD L	1.07E+05	1.83E+04	2.4	1.29E+02	1.10E+01	1.33E+02	1.13E+04
ANDERSON RANCH R	4.31E+05	6.92E+04	3.1	2.27E+03	8.21E+02	1.17E+03	5.31E+04
ARROWROCK R	4.31E+05	6.92E+04	3.1	2.27E+03	8.21E+02	1.17E+03	5.31E+04
BLACK CANYON R	2.00E+05	3.68E+04	3.2	4.06E+02	1.52E+02	5.19E+02	3.74E+04
CASCADE R	1.07E+05	1.83E+04	2.4	1.29E+02	1.10E+01	1.33E+02	1.13E+04
C J STRIKE R	6.18E+05	1.07E+05	3.3	3.09E+03	8.07E+02	1.57E+03	1.14E+04
CRANE CREEK R	5.19E+05	3.43E+04	2.7	1.10E+03	2.09E+02	8.27E+02	5.58E+04
DEADWOOD R	1.07E+05	1.83E+04	2.4	1.29E+02	1.10E+01	1.33E+02	1.13E+04
LAKE LOWELL	3.18E+05	2.20E+05	3.3	8.69E+03	2.24E+03	3.71E+03	1.38E+05
LITTLE CAMAS R	4.31E+05	6.92E+04	3.1	2.27E+03	8.21E+02	1.17E+03	5.31E+04
LUCKY PEAK R	2.44E+05	8.03E+04	3.6	1.54E+03	2.44E+02	1.19E+03	7.23E+04
MANN'S CREEK R	5.19E+05	3.43E+04	2.7	1.10E+03	2.09E+02	8.27E+02	5.58E+04
MOUNTAIN HOME R	4.31E+05	6.92E+04	3.1	2.27E+03	8.21E+02	1.17E+03	5.31E+04
PAYETTE L	1.07E+05	1.83E+04	2.4	1.29E+02	1.10E+01	1.33E+02	1.13E+04
SWAN FALLS R	2.44E+05	8.03E+04	3.6	1.54E+03	2.44E+02	1.19E+03	7.23E+04
TRINITY L	4.31E+05	6.92E+04	3.1	2.27E+03	8.21E+02	1.17E+03	5.31E+04
UPPER PAYETTE L	1.07E+05	1.83E+04	2.4	1.29E+02	1.10E+01	1.33E+02	1.13E+04
AMERICAN FALLS R	4.96E+05	8.08E+04	2.2	5.03E+03	6.18E+02	1.50E+03	3.74E+04
ASHTON R	3.92E+05	7.56E+04	2.1	2.02E+03	3.46E+02	1.19E+03	3.92E+04
BLACKFOOT R	7.28E+05	6.46E+04	1.6	1.89E+03	2.83E+02	1.24E+03	4.66E+04
GOLDEN LAKE	3.92E+05	7.56E+04	2.1	2.02E+03	3.46E+02	1.19E+03	3.92E+04
CEDAR CREEK R	6.42E+05	2.60E+05	3.2	5.50E+03	1.34E+03	3.07E+03	1.52E+04
HENRYS LAKE	3.92E+05	7.56E+04	2.1	2.02E+03	3.46E+02	1.19E+03	3.92E+04
ISLAND PARK R	3.92E+05	7.56E+04	2.1	2.02E+03	3.46E+02	1.19E+03	3.92E+04
LAKE WALCOTT	6.78E+05	2.03E+05	2.7	6.91E+03	1.28E+03	2.72E+03	1.11E+05
LITTLE WOOD R	2.62E+05	3.90E+04	2.6	4.38E+02	3.80E+01	4.40E+02	2.77E+04
MACKAY R	1.41E+05	4.42E+04	3.5	1.85E+02	1.90E+01	3.51E+02	4.23E+04
MAGIC R	2.62E+05	3.90E+04	2.6	4.38E+02	3.80E+01	4.40E+02	2.77E+04
MILNER R	6.42E+05	2.60E+05	3.2	5.50E+03	1.34E+03	3.07E+03	1.52E+04
MORMON R	1.84E+05	1.32E+04	1.6	2.92E+02	5.00E+01	2.92E+02	1.36E+04
MURTAUGH LAKE R	6.42E+05	2.60E+05	3.2	5.50E+03	1.34E+03	3.07E+03	1.52E+04
PORTNEUF R	7.28E+05	6.46E+04	1.6	1.89E+03	2.83E+02	1.24E+03	4.66E+04
RIRIE R	5.27E+05	1.35E+05	2.2	4.71E+03	9.05E+02	1.93E+03	5.93E+04
SALMON FALLS R	6.42E+05	2.60E+05	3.2	5.50E+03	1.34E+03	3.07E+03	1.52E+04
SILVER L	3.92E+05	7.56E+04	2.1	2.02E+03	3.46E+02	1.19E+03	3.92E+04
WILSON LAKE R	2.09E+05	1.32E+05	2.6	3.21E+03	5.98E+02	1.69E+03	6.12E+04
PALISADES R	5.27E+05	1.35E+05	2.2	4.71E+03	9.05E+02	1.93E+03	5.93E+04
BEAR L	3.32E+05	4.93E+04	1.1	1.29E+02	3.30E+01	5.96E+02	4.26E+04
DEEP CREEK R	3.33E+05	2.53E+04	2.3	6.02E+02	5.90E+01	7.30E+02	3.42E+04
LAMONT R	2.53E+05	4.45E+04	2.5	6.33E+02	1.30E+02	1.09E+03	3.86E+04
SODA POINT R	7.28E+05	6.46E+04	1.6	1.89E+03	2.83E+02	1.24E+03	4.66E+04
TWIN LAKES R (NORTH)	2.53E+05	4.45E+04	2.5	6.33E+02	1.30E+02	1.09E+03	3.86E+04
TWIN LAKES R (SOUTH)	2.53E+05	4.45E+04	2.5	6.33E+02	1.30E+02	1.09E+03	3.86E+04

Table B-4. Variables Measuring Conditions Representative of Watershed: County Level Activities Which May be Scaled and Associated with Lake Watersheds (continued).

	HOGS	SHEEP	CHICK
UPPER BERNARD L	1.60E+01	9.90E+01	1.63E+03
ANDERSON RANCH R	2.04E+02	1.17E+04	3.12E+03
ARROWROCK R	2.04E+02	1.17E+04	3.12E+03
BLACK CANYON R	1.51E+03	7.00E+03	1.22E+04
CASCADE R	1.60E+01	9.90E+01	1.63E+03
C J STRIKE R	6.60E+02	1.31E+04	1.63E+03
CRANE CREEK R	1.73E+03	1.67E+04	3.28E+03
DEADWOOD R	1.60E+01	9.90E+01	1.63E+03
LAKE LOWELL	4.92E+03	6.37E+03	9.52E+04
LITTLE CAMAS R	2.04E+02	1.17E+04	3.12E+03
LUCKY PEAK R	5.51E+03	1.14E+04	1.92E+05
MANN'S CREEK R	1.73E+03	1.67E+04	3.28E+03
MOUNTAIN HOME R	2.04E+02	1.17E+04	3.12E+03
PAYETTE L	1.63E+01	9.90E+01	1.63E+03
SWAN FALLS R	5.51E+03	1.14E+04	1.92E+05
TRINITY L	2.04E+02	1.17E+04	3.12E+03
UPPER PAYETTE L	1.63E+01	9.90E+01	1.63E+03
AMERICAN FALLS R	2.49E+02	2.35E+03	NA
ASHTON R	3.73E+02	2.79E+04	1.68E+03
BLACKFOOT R	6.67E+02	2.68E+04	2.18E+03
GOLDEN LAKE	3.73E+02	2.79E+04	1.68E+03
CEDAR CREEK R	2.41E+03	4.35E+04	5.18E+03
HENRYS LAKE	3.73E+02	2.79E+04	1.68E+03
ISLAND PARK R	3.73E+02	2.79E+04	1.68E+03
LAKE WALCOTT	3.69E+03	3.22E+04	1.95E+03
LITTLE WOOD R	3.95E+02	5.42E+04	NA
HACKAY R	1.03E+03	1.45E+04	1.36E+03
MAGIC R	3.95E+02	5.42E+04	NA
MILNER R	2.41E+03	4.35E+04	5.18E+03
MORMON R	3.60E+01	1.42E+04	4.49E+02
MURTAUGH LAKE R	2.41E+03	4.35E+04	5.18E+03
PORTNEUF R	6.67E+02	2.68E+04	2.18E+03
RIRIE R	3.41E+03	3.81E+04	2.42E+03
SALMON FALLS R	2.41E+03	4.35E+04	5.18E+03
SILVER L	3.73E+02	2.79E+04	1.68E+03
WILSON LAKE R	2.67E+03	1.60E+04	5.04E+03
PALISADES R	3.41E+03	3.81E+04	2.42E+03
BEAR L	7.40E+01	1.88E+04	6.68E+03
DEEP CREEK R	6.40E+01	4.64E+03	7.82E+02
LAMONT R	9.68E+02	1.49E+03	NA
SODA POINT R	6.67E+02	2.68E+04	2.18E+03
TWIN LAKES R (NORTH)	9.68E+02	1.49E+03	NA
TWIN LAKES R (SOUTH)	9.68E+02	1.49E+03	NA

TABLE B-5

## RECREATIONAL AND LAKE USE PRESSURES/POTENTIAL

No.	Name	Definition/Units of Measure	Data Source
1.	FIFP80	Population within 50 miles: 1980/# persons	(1)
2.	HUNP80	Population within 100 miles: 1980/# persons	(1)
3.	FIG6070	Population growth within 50 miles: 1960-1970/fractional increase	(1)
4.	FIG7080	Population growth within 50 miles: 1970-1980/fractional increase	(1)
5.	HUN6070	Population growth within 100 miles: 1960-1970/fractional increase	(1)
6.	HUN7080	Population growth within 100 miles: 1970-1980/fractional increase	(1)

## Notes:

1. See Holmes (1983) - reference Note 1, Table .

Table B-5. Recreational and Lake Use Pressures/Potential (Continued)

	FIFP80	HUNP80	FIG6070	FIG7080	HUN6070	HUNG7080
UPPER BERNARD L	1.53E+04	2.82E+05	-0.06	0.17	0.07	0.14
ANDERSON RANCH R	1.81E+05	4.12E+05	0.19	0.43	0.08	0.41
ARROWROCK R	2.96E+05	3.94E+05	0.13	0.45	0.09	0.4
BLACK CANYON R	2.96E+05	3.94E+05	0.13	0.45	0.09	0.4
CASCADE R	1.12E+04	3.65E+05	-0.05	0.29	0.4	0.37
C J STRIKE R	1.97E+05	4.18E+05	0.17	0.5	0.09	0.4
CRANE CREEK R	1.44E+05	4.07E+05	0.04	0.31	0.08	0.37
DEADWOOD R	1.55E+04	3.65E+05	0.02	0.34	0.4	0.37
LAKE LOWELL	3.10E+05	3.69E+05	0.13	0.44	0.09	0.38
LITTLE CAMAS R	1.81E+05	4.12E+05	0.19	0.43	0.08	0.41
LUCKY PEAK R	2.96E+05	3.94E+05	0.13	0.45	0.09	0.4
MANN'S CREEK R	1.44E+05	4.07E+05	0.04	0.31	0.08	0.37
MOUNTAIN HOME R	1.81E+05	4.12E+05	0.19	0.43	0.08	0.41
PAYETTE L	1.12E+04	3.65E+05	-0.05	0.29	0.4	0.37
SWAN FALLS R	1.97E+05	4.18E+05	0.17	0.5	0.09	0.4
TRINITY L	1.81E+05	4.12E+05	0.19	0.43	0.08	0.41
UPPER PAYETTE L	NA	NA	NA	NA	NA	NA
AMERICAN FALLS R	1.34E+05	4.13E+05	0.06	0.24	0.16	0.26
ASHTON R	1.20E+04	2.00E+05	-0.07	0.35	0.13	0.27
BLACKFOOT R	1.65E+05	3.56E+05	0.06	0.28	0.04	0.28
GOLDEN LAKE	2.71E+04	2.00E+05	0.21	0.3	0.13	0.27
CEDAR CREEK R	8.03E+04	1.64E+05	-0.04	0.31	0.06	0.23
HENRYS LAKE	1.20E+04	2.00E+05	-0.07	0.35	0.13	0.27
ISLAND PARK R	2.71E+04	2.00E+05	0.21	0.3	0.13	0.27
LAKE WALCOTT	7.51E+04	2.17E+05	0.06	0.21	-0.05	0.23
LITTLE WOOD R	7.16E+04	3.90E+05	0.	0.33	0.12	0.36
HACKAY R	1.28E+04	3.09E+05	-0.18	0.27	0.12	0.24
MAGIC R	7.16E+04	3.90E+05	0.	0.33	0.12	0.36
MILNER R	7.51E+04	2.17E+05	0.06	0.21	-0.05	0.23
MURMON R	7.16E+04	3.90E+05	0.	0.33	0.12	0.36
MURTAUGH LAKE R	7.51E+04	2.17E+05	0.06	0.21	-0.05	0.23
PORTNEUF R	1.65E+05	3.56E+05	0.06	0.28	0.04	0.28
RIRIE R	1.36E+05	2.77E+05	0.13	0.29	0.06	0.29
SALMON FALLS R	8.03E+04	1.64E+05	-0.04	0.31	0.06	0.23
SILVER L	2.71E+04	2.00E+05	0.21	0.3	0.13	0.27
WILSON LAKE R	7.51E+04	2.17E+05	0.06	0.21	-0.05	0.23
PALISADES R	1.05E+05	2.61E+05	0.16	0.35	0.47	-0.06
BEAR L	9.74E+04	1.05E+06	0.03	0.27	0.19	0.36
DEEP CREEK R	9.74E+04	1.05E+06	0.03	0.27	0.19	0.36
LAMONT R	9.74E+04	1.05E+06	0.03	0.27	0.19	0.36
SODA POINT R	1.65E+05	3.56E+05	0.06	0.28	0.04	0.28
TWIN LAKES R (NORTH)	9.74E+04	1.05E+06	0.03	0.27	0.19	0.36
TWIN LAKES R (SOUTH)	9.74E+04	1.05E+06	0.03	0.27	0.19	0.36

Table B-5. Recreational and Lake Use Pressures/Potential

	FIFP80	HUNP80	FIG6070	FIG7080	HUN6070	HUNG7080
MACARTHUR L	4.14E+04	5.71E+05	-0.01	0.37	0.04	0.26
MYRTLE L	6.92E+04	6.12E+05	-0.01	0.26	0.07	0.23
PERKINS L	3.18E+04	4.37E+05	0.11	0.23	0.11	0.27
COCOLALLA L	1.26E+05	6.18E+05	0.09	0.42	0.06	0.24
HOODOO L	1.26E+05	6.18E+05	0.09	0.42	0.06	0.24
LOWER PRIEST L	6.92E+04	6.12E+05	-0.01	0.26	0.07	0.23
LAKE PEND OREILLE	1.26E+05	6.18E+05	0.09	0.42	0.06	0.24
ROUND L	1.26E+05	6.18E+05	C.09	0.42	0.06	0.24
SPIRIT LAKE	4.41E+05	6.16E+05	0.03	0.27	0.08	0.24
UPPER PRIEST L	6.92E+04	6.12E+05	-0.01	0.26	0.07	0.23
BEAWEAH L	4.54E+05	5.97E+05	0.05	0.19	0.05	0.17
CAVE L	4.54E+05	5.97E+05	0.05	0.19	0.05	0.17
LAKE CHATCOLET	4.54E+05	5.97E+05	0.05	0.19	0.05	0.17
LAKE COEUR D'ALENE	4.43E+05	6.38E+05	C.04	0.24	0.08	0.2
FERNAN L	4.43E+05	6.38E+05	0.04	0.24	0.08	0.2
HAUSER L	4.41E+05	5.91E+05	0.03	0.27	0.08	0.25
HAYDEN L	4.43E+05	6.38E+05	0.04	0.24	0.08	0.2
ROSE L	4.54E+05	5.97E+05	0.05	0.19	0.05	0.17
STEVENS L	5.79E+04	7.29E+05	0.04	0.15	0.09	0.21
SWAN LAKE	4.54E+05	5.97E+05	0.05	0.19	0.05	0.17
TWIN LAKES LOWER L	4.41E+05	6.16E+05	0.03	0.27	0.08	0.24
TWIN LAKES UPPER L	4.41E+05	6.16E+05	0.03	0.27	0.08	0.24
DWORSHAK RES	1.19E+05	6.30E+05	0.19	0.1	0.06	0.18
MANN'S LAKE	1.23E+05	3.09E+05	0.18	0.11	0.11	0.16
MOOSE CREEK R	1.19E+05	6.30E+05	0.19	0.1	0.06	0.18
SOLDIERS MEADOW R	1.23E+05	3.09E+05	0.18	0.11	C.11	0.16
LAKE WAHA	1.23E+05	3.09E+05	0.18	0.11	0.11	0.16
WINCHESTER L	1.23E+05	3.09E+05	0.18	0.11	0.11	0.16
ALTURAS L	3.60E+03	3.56E+05	0.35	0.46	0.1	0.42
BAYHORSE L	3.60E+03	3.56E+05	0.35	0.46	0.1	0.42
GOOSE LAKE	1.12E+04	3.65E+05	-0.05	0.29	0.4	0.37
PETIT L	3.60E+03	3.56E+05	0.35	0.46	0.1	0.42
REDFISH L	3.60E+03	3.56E+05	0.35	0.46	0.1	0.42
SEVEN DEVILS L	1.53E+04	2.82E+05	-0.06	0.17	0.07	0.14
STANLEY L	3.60E+03	3.56E+05	0.35	0.46	0.1	0.42
TOLO L	1.12E+04	3.65E+05	-0.05	0.29	0.4	0.37
WARM L	1.12E+04	3.65E+05	-0.05	0.29	0.4	0.37
WILLIAMS LAKE	1.08E+04	1.16E+05	-0.03	0.27	-0.04	0.1
BASIN L	1.53E+04	2.82E+05	-C.06	0.17	0.07	0.14
BROWNLEE R	1.44E+05	4.07E+05	0.04	0.31	0.08	0.37
ECHO L	1.53E+04	2.82E+05	-0.06	0.17	0.07	0.14
GEM L	1.53E+04	2.82E+05	-0.06	0.17	0.07	0.14
HEDEVIL L	1.53E+04	2.82E+05	-0.06	0.17	0.07	0.14
HELLS CANYON R	1.53E+04	2.82E+05	-0.06	0.17	0.07	0.14
LOWER BERNARD L	1.53E+04	2.82E+05	-0.06	0.17	0.07	0.14
OXBOW RES	1.44E+05	4.07E+05	0.04	0.31	0.08	0.37
SHELF L	1.53E+04	2.82E+05	-0.06	0.17	0.07	0.14

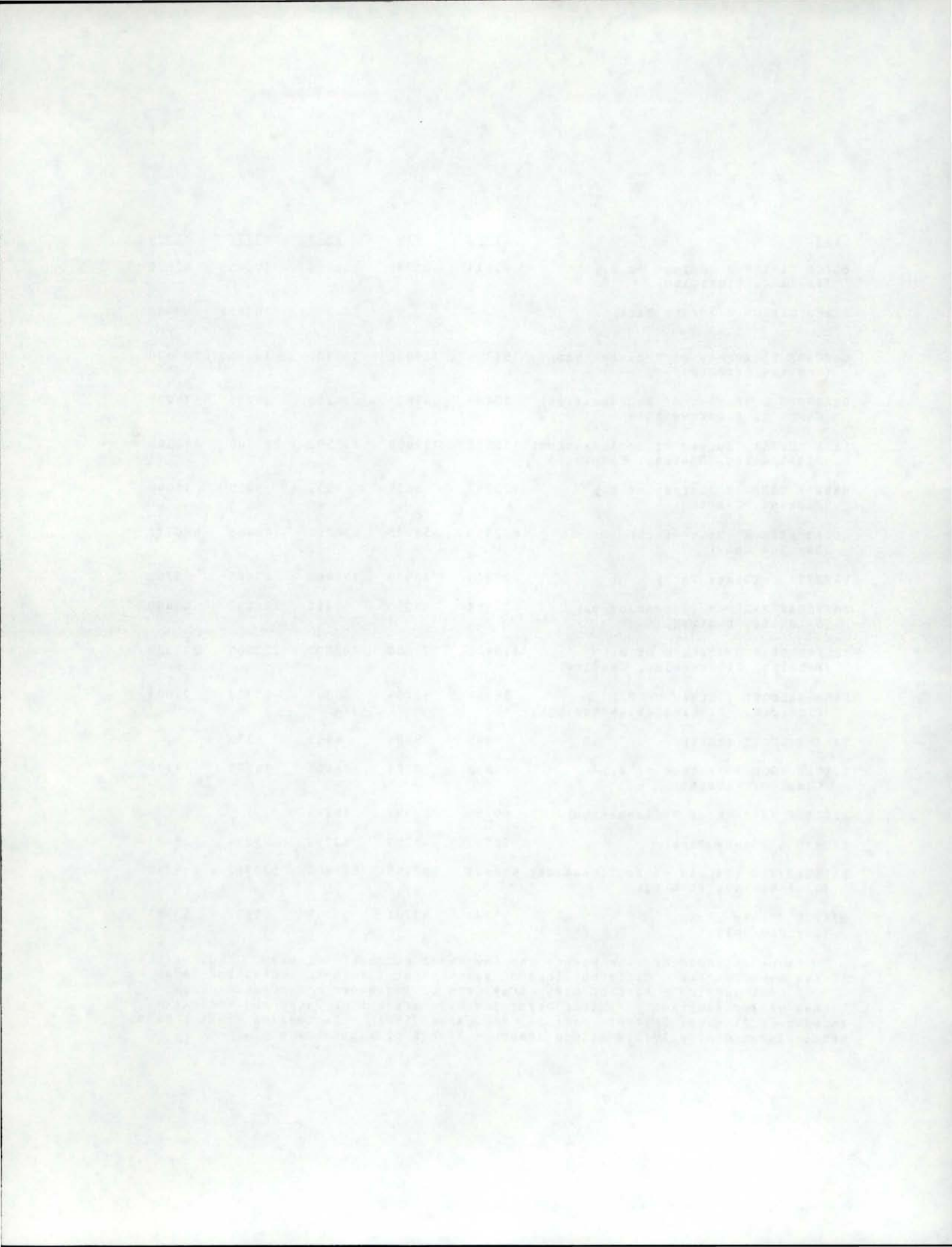
B-41

Table B-6  
Recreational Use Data, 1976-1980

<u>Lake</u>	<u>1980</u>	<u>1979</u>	<u>1978</u>	<u>1977</u>	<u>1976</u>
LOWER PRIEST L (Forest Service) (Camping, Recreation Cabins, Sightseeing)	234900	230900	253500	308300	279300
LOWER PRIEST L (State Park) (Swimming, boating, camping)	31471	31670	28223	27386	24374
LAKE FEND OREILLE (Army Corp) (Swimming, Sightseeing)	201000	247400	283100	211000	191200
LAKE FEND OREILLE (State Park) (Fishing, Boating, Swimming, Camping)	98551	119221	91102	105167	123193
ROUND LAKE (State Park) (Camping, Fishing, Swimming)	42209	51624	50702	51651	37311
LAKE CHATCOLET (State Park) (Fishing, Picnicing, Swimming)	112925	255134	292558	226707	151987
HANN'S L (Bureau of Reclamation) (Fishing)	3700	7400	7400	7400	7400
LAKE WAHA (Bureau of Reclamation) (Fishing)	11880	11880	11800	11800	11800
SOLDIERS MEADOW R (Bureau of R.) (Fishing, Picnicing)	6700	5700	5700	5100	5100
WINCHESTER L (State Park)	44267	37836	31973	40401	58112
DWORSHAK R (Army Corp) (Sightseeing, Boating)	274500	263900	235300	163000	171352
ALTURAS L (SNRA)	11800	11900	13900	13500	12100
PETIT L (SNRA)	11800	11900	13900	13500	12100
REDFISH L (SNRA)	39100	37800	40000	40100	34300
STANLEY L (SNRA)	39100	37800	40000	40100	34300
ANDERSON RANCH R (Bureau of R.) (Fishing, Sightseeing)	68950	69956	149623	33471	56517
ARROWROCK B (Bureau of Reclamation) (Fishing, Sightseeing)	22200	21000	61037	33350	49024

<u>Lake</u>	<u>1980</u>	<u>1979</u>	<u>1978</u>	<u>1977</u>	<u>1976</u>
BLACK CANYON R (Bureau of R.) (Boating, Picnicing)	63611	105780	53850	100859	42500
BLACK CANYON R (State Park)	.	.	74398	100859	69960
CASCADE R (Bureau of Reclamation) (Camping, Fishing)	151300	139000	137100	132900	131600
DEADWOOD R (Bureau of Reclamation) (Camping, Sightseeing)	17480	17871	14250	14235	14200
LAKE LOWELL (Bureau of Reclamation) (Sightseeing, Boating, Fishing)	156590	139000	132592	220700	111300
MANN'S CREEK R (Bureau of R.) (Fishing, Camping)	20257	8655	8635	9055	15040
LUCKY PEAK R (State Park) (Day Use Only)	622959	558715	436280	748988	640752
PAYETTE L (State Park)	72921	43934	117466	67445	79763
AMERICAN FALLS R (Bureau of R.) (Swimming, Boating)	73459	51250	53150	46000	49490
ISLAND PARK R (Bureau of R.) (Fishing, Sightseeing, Camping)	175400	170500	203800	222000	221327
LAKE WALCOTT (Bureau of R.) (Picnicing, Fishing, Sightseeing)	56866	92705	60044	42719	21005
LAKE WALCOTT (MNWR)	4095	5284	4955	4373	.
LITTLE WOOD R (Bureau of R.) (Camping, Fishing)	21853	8289	26608	16275	14900
RIRIE R (Bureau of Reclamation)	69750	52591	48299	.	.
HENRYS L (State Park)	20502	46257	52299	29254	28673
PALISADES R (Bureau of Reclamation) (Sightseeing, Boating)	698633	542355	573800	530167	681042
BEAR L (State Park) (Day Use Only)	71131	51791	51719	52602	57351

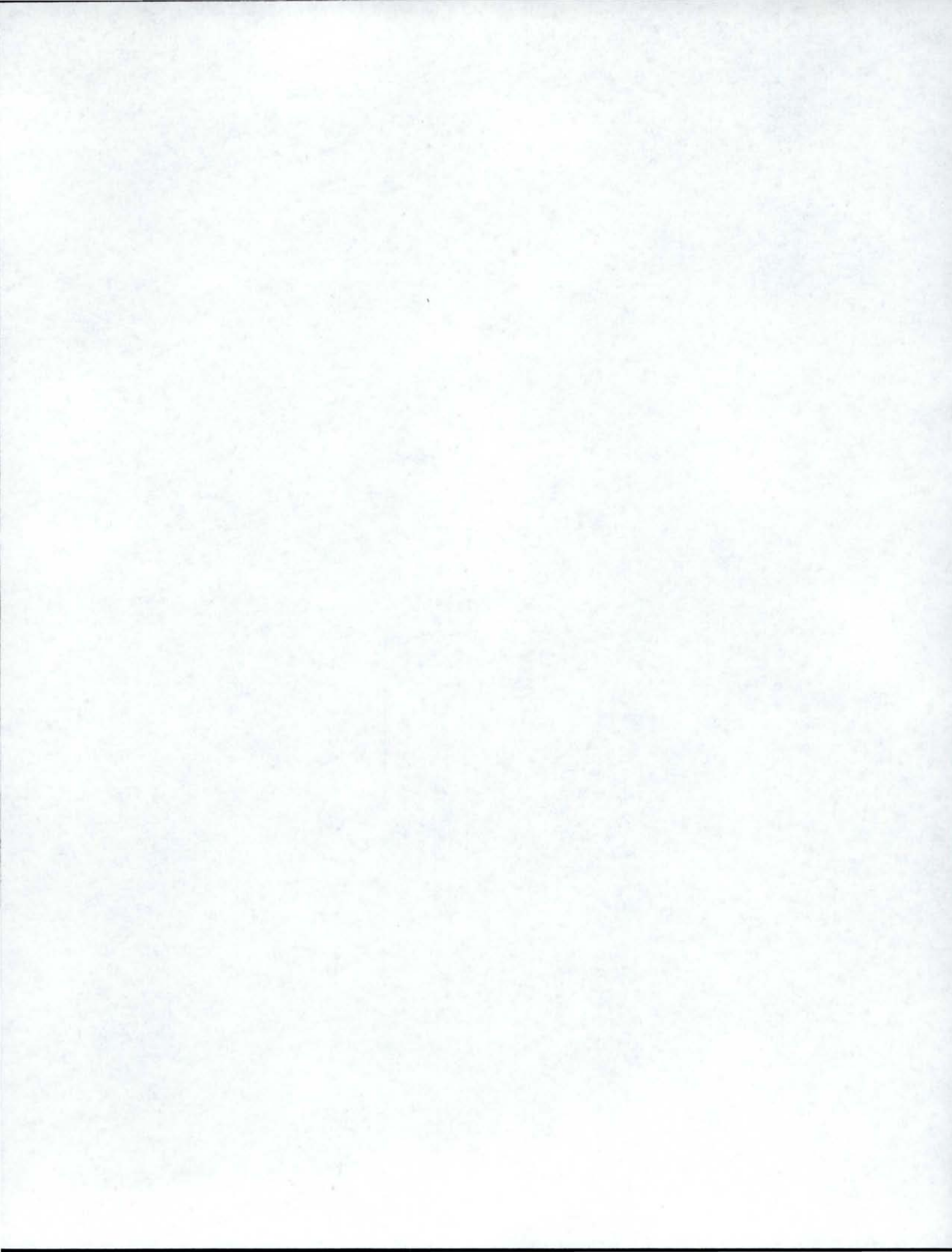
In parentheses are the agency and the major recreational uses. Each of the of the agencies has a different form of measurement for their recreation data:  
 Forest Service - Visitor Days; Army Corp of Engineers - Recreation Days;  
 Bureau of Reclamation - Visitor Days; Idaho Department of Parks and Recreation - Attendance Figures; Sawtooth National Rec. Area (SNRA) - Recreation Visitor Days;  
 Minidoka National Wildlife Refuge (MNWR) - Number of Visitors.





APPENDIX C

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Key Words: aesthetics, visual analysis, environmental planning.

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Key Words: focused and diffused households, water activities, activity clusters, recreation place.

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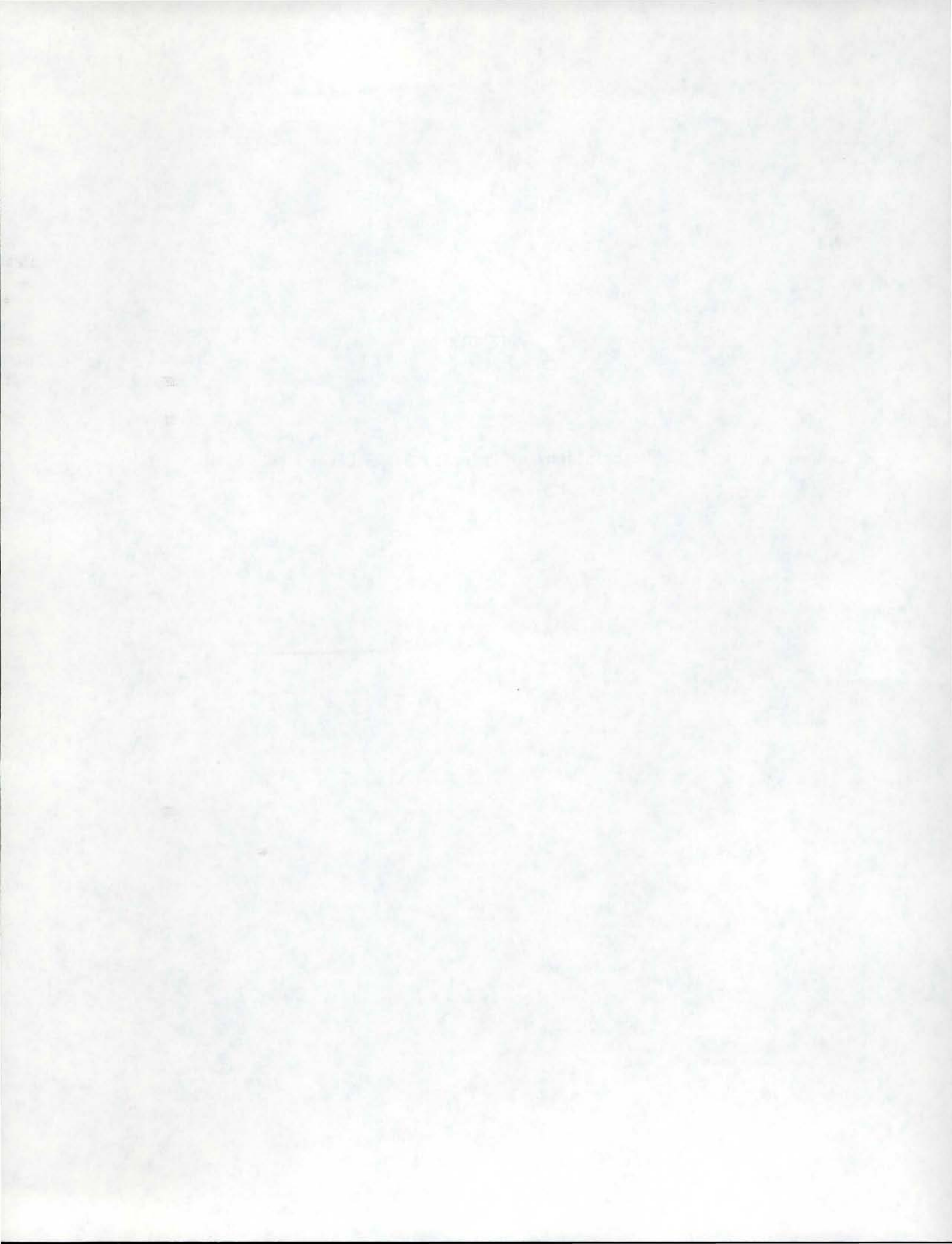
Part of an on-going study of water quality problems at Lake Lowell. Discussion includes the following comments. Algal blooms limit the recreational use of the lake. In some years the lake has been closed for recreational use in late summer because of poor aesthetic conditions. Fecal coliform bacteria counts occasionally exceed Idaho water quality standards for primary contact recreation waters. The study also states that limnological studies of north temperate lakes on reservoirs strongly suggest that the magnitude of algal blooms is determined by the concentration of phosphorus in the surface water. A conclusion is that the

aesthetics and fishery of Lake Lowell would be enhanced if nuisance algal blooms and related water quality problems were controlled. Research on the water quality problems at Lake Lowell is ongoing.

Key Words: Lake Lowell, water quality, recreation, phosphorus.

APPENDIX D

Descriptions of Priority 2 - 5 Lakes



## APPENDIX D

### Description of Lakes Sampled During Summer, 1981

Alturas Lake is in the headwater reaches of the Salmon River on the eastern slopes of the Sawtooth Mountains. It is a lake formed principally by a lateral moraine extending along the southern lake-shore. The immediate shoreline is lightly forested with a few open sagebrush and grass covered meadows interspersed on the slopes. Alturas Lake is a long, steep-sided lake with a number of campgrounds along its length and on either end. In spite of the intense campground development the human impact appears to be light and the lake retains an oligotrophic appearance and status.

American Falls Reservoir is located on the upper Snake River below the junction of the South Fork and Henry's Fork and below the Portneuf River. This reservoir is utilized heavily for recreation, power generation at the American Falls dam, and for irrigation water supply. The shoreline area is composed of agricultural land (mixed dryland and sprinkler-irrigated lands) with the town of American Falls situated on the southwest shoreline. Sagebrush cover usually adjoins the reservoir. American Falls Reservoir was in algal bloom at the time of the sampling visit in late July. Such blooms are very common in the reservoir through the entire summer and fall, indicating advanced eutrophication of the reservoir.

Anderson Ranch Reservoir is a storage project on the South Fork of the Boise River providing benefits in irrigation, power, and flood and sediment control. Located 20 miles northeast of Mountain Home this dam is 456 feet high and was the world's highest earthfill dam at the time of its construction. This large reservoir provides a storage capacity

of 493,200 acre-feet. The shoreline and parts of the watershed are arid lands covered by sagebrush. The upper end of the reservoir just enters a coniferous forest zone but the majority of the lower watershed is in a light coniferous forest cover.

Arrowrock Reservoir, located on the Boise River immediately above Lucky Peak Reservoir, is heavily drafted during the summer months to supply irrigation water to the Boise River, but it is still used extensively by waterfowl. As a popular fishery, it is stocked annually with rainbow trout. Unlike Lucky Peak Reservoir, Arrowrock is surrounded in its upper reaches by forested lands and draws visitors primarily for camping, sightseeing and fishing. The reservoir, contained by a 350-foot high thick-arch dam, has a storage capacity of 286,600 acre-feet. When constructed in 1915 by the Bureau of Reclamation, the dam was recorded as being the highest in the world. During repair operations in 1935 the dam was raised 5 feet thereby adding 9000 acre-feet of storage capacity. In its upper reaches, the reservoir bifurcates with one arm of the reservoir on the Middle Fork of the Boise River and the other on the South Fork of the Boise River.

Ashton Reservoir on the Henry's Fork of the Snake River is located immediately below the plateau where the Henry's Fork breaks out of the upper Snake River plateau onto the floodplain. Ashton is a power storage reservoir operated by Utah Power and Light Co. Nearly all of the adjacent shoreline land use is dryland farming with scattered grazing. The lower end of the reservoir has a limited amount of recreational development with principal access near the dam. Most other accessible shoreline areas are privately controlled.



Basin Lake is the lower lake in the Basin-Shelf-Gem "chain" of lakes in the Seven Devils mountains. The lake is in a small basin off to the side of the main drainage and is not fed by Shelf Lake outflows. The Basin Lake watershed and immediate shoreline is heavily timbered except for an extensive talus slope on the south shore. It is a typical, moderately deep, unproductive subalpine lake accessible only by foot or by horseback.

Bayhorse Lake is located near Challis in the headwaters of Bayhorse Creek which drains into the Salmon River. This natural lake at 8600 feet is surrounded by timbered watershed supporting heavy grazing activity during the summer months. There is a heavily used "soft" forest service campground located on the shoreline with automobile access to the campground. The lake is showing obvious signs of ageing. The entire lake is surrounded by a band of wet meadows ranging from 10 to 150 yards wide. An area of the lake on the south shoreline has been filled in gradually by sedimentation processes progressing in stages from lake, marsh, bog, and finally to a wet meadow. Cattle grazing activities in the wet shoreline meadows contribute to the lake nutrient supply.

Bear Lake in the Bear River drainage is an offstream storage reservoir with water diverted to the lake via a canal from the Bear River. Bear Lake is an old lake high in an isolated endorheic drainage. It has developed a unique set of chemical and biological characteristics over its 28,000 year history. Storage capacity of the large, deep natural lake has been increased by means of a low dam on the north end of the lake. The lake, located on the Utah-Idaho border with approximately half of the lake lying in each state, has a unique blue

color due to extremely high levels of suspended and dissolved carbonates. On the west side of the lake is extensive recreational and residential home development in the steep foothills draining to the lake. Many of the construction sites are unprotected as to erosion control. This development represents a change of land use from the historical use of ranching and cattle operations. The east side of the lake drainage is mostly dry grazing land of moderate relief. In the west side and north end of the Bear Lake basin closer to the lake, irrigated and dry farm activities were dominant in the area until recent housing developments increased. There are extensive growths of rooted macrophytes in protected embayments of the west side of the lake with some signs of eutrophication beginning to show up in the vicinity of marinas and heavily-used shoreline recreational areas.

Benewah Lake lies adjacent to the St. Joe River at the south end of Lake Coeur d'Alene. It is one of the shallow floodplain lakes created when the water level of Lake Coeur d'Alene was raised in 1906. Approximately 1/2 of the lake is covered with a dense growth of wild rice, from a few plantings by private individuals a number of years ago. The rice has become well established and threatens the small remaining area of open water. The lake is a popular fishing spot with facilities including a small resort and a public campground on the east shore.

Bernard Lakes (Upper and Lower) in the Seven Devils mountains are glacially carved lakes, perhaps cirque lakes. The watershed of these lakes is largely bare rock and talus slopes with the remainder covered by a very thin soil mantle vegetated with sparse grass, subalpine fir and whitebark pine. Upper Bernard Lake is very shallow with extensive

macrophyte coverage while Lower Bernard Lake is deeper despite its smaller surface area. The immediate shorelines of Lower Bernard Lake are also much steeper than those of Upper Bernard Lake. Most of the macrophyte coverage on Upper Bernard Lake is a floating-leafed water lily.

Black Canyon Reservoir is located on the lower Payette River where the river leaves the barren sagebrush-covered foothills and flows onto the lower floodplain of the Payette River. Black Canyon Reservoir is in a setting incised in a canyon with the steepness of the canyon walls limiting access to much of the shoreline. The reservoir is long, narrow, and serpentine with few tributaries other than the Payette River. Immediate shorelines are mostly steep-sided, barren canyon walls with some dry sagebrush and a few cultivated areas closer to the reservoir. In the upper reaches of the reservoir there is more farmland near the shoreline. The upper reaches of Black Canyon reservoir have been subject to heavy sediment deposition from the Payette River. The reservoir is used primarily for storage of irrigation water.

Blackfoot Reservoir is located on the upper Blackfoot River, a tributary to the Snake River above American Falls Reservoir. The watershed is composed mainly of open forest at higher elevations and sagebrush-covered land intermixed with some dryland farming lands at lower elevations (- 6500-ft) close to the reservoir. The upper Blackfoot River tributaries flow through some geologic terrain with exposed and weathering phosphate-bearing rocks. Parts of the shoreline are mixed silts and gravel. At the time of the sampling visit the lake was undergoing a heavy blue-green algal bloom. Blackfoot Reservoir is

heavily used by fishermen and the lake is a good producer of large cut-throat trout.

Brownlee Reservoir is a large (nearly 1,500,000 acre-feet) reservoir on the Snake River in Hell's Canyon. The reservoir is formed by an earthfill dam built by Idaho Power Company. Storage began in 1958. Water from the reservoir is used for power generation on the lower Snake and Columbia Rivers. Mean annual streamflow into the reservoir exceeds 13 million acre feet. Because of these large inflows and resulting brief reservoir residence time, eutrophication problems on this reservoir are less severe than would otherwise be expected from the large nutrient loadings. In spite of the remoteness of this reservoir there is considerable recreational activity and fishing is a popular activity, especially warm water fishing, water-skiing and RV camping.

Cave Lake is located along the Coeur d'Alene River about eight miles upstream from Lake Coeur d'Alene. Its watershed is mostly forest land on the Coeur d'Alene Indian Reservation. Development on the shoreline consists of a small resort and a few houses. Emergent vegetation is present in the form of lilies near the inlet and reeds along the north and west shores where the lake borders on the Coeur d'Alene River. Recreational use is primarily fishing and waterfowl hunting.

Cedar Creek Reservoir in Southwest Twin Falls County, lies in open, high desert habitat. At high water, the reservoir covers about 1,500 acres, but at the time of our sampling visit large mudflats were exposed where cattle were grazing. Cedar Creek was headed towards an

eventual total drawdown in 1981, due to water shortage and the need for repairs to the earthen dam. A large portion of the watershed is rangeland, managed by the BLM. It is a popular local fishing spot during high water years.

C.J. Strike Reservoir is a 250,000 acre-foot storage reservoir on the Snake River about 6 miles upstream from Grandview and 16 miles south of Mountain Home. The Bruneau River discharges into a major arm of the reservoir near Bruneau Dunes State Park. Storage began in the reservoir in 1952 and recreational activities on the reservoir have been increased steadily since that time. Water in the reservoir is turbid from high silt content and algae blooms. Nearly 80 percent of the watershed land use is in agriculture and range.

Cocolalla Lake is located ten miles south of Sandpoint, Idaho. The watershed is mostly forested with agricultural and grazing land along inlet streams. Grazing land is also visible along the south shore. The lakeshore is 100 percent privately owned and is about sixty percent developed with about 85 dwellings. The east shore is not available for development because of railroad right of way and Highway 95 adjacent to the lake. Emergent vegetation, (bulrushes), is present along the east shore. The one public access is on the north end, and it has a boat ramp and a picnic area. Cocolalla is recognized as having eutrophication problems with common algae blooms.

Crane Creek Reservoir is located on Crane Creek, a major tributary of the Weiser River, about 22 miles upstream from the town of Weiser in Washington County. This shallow reservoir is surrounded by mostly privately owned agricultural and range lands and is used primarily for irrigation water storage. The contributing watershed area is

predominantly range land together with about 20 percent agricultural land. The waters of this reservoir were the most turbid (turbidity = 90 NTU) of any of the lakes sampled during the study; this could explain the lack of recreational use of this reservoir.

Deadwood Reservoir, 25 miles southeast of Cascade, Idaho is contained by a concrete-arch dam on the Deadwood River, a major tributary of the South Fork of the Payette River. This reservoir at elevation 5311 feet is located in a watershed of primarily forested land. Recreational activities are intensive on this reservoir throughout the late summer months with the reservoir offering excellent trout fishing at that time. Recreational activities include boating, fishing and camping. Water is released through the summer months from the 162,000 acre-foot storage to provide a regulated flow for the power-plant at Black Canyon Dam and for irrigation in the Payette and Emmett areas.

Deep Creek Reservoir is located at 5200 feet in a tributary drainage of the Malad River and is used primarily for storage of irrigation water. The water levels therefore fluctuate greatly through the year. The reservoir is surrounded on all sides by grazed sagebrush dryland of steep relief. Deep Creek Reservoir appears to receive fairly heavy fishing pressure during early and mid summer.

Dworshak Reservoir near Ahsahka, Idaho is formed by a straight-axis concrete gravity dam constructed by the Corps of Engineers on the North Fork of the Clearwater River. Storage began in 1971. The storage capacity of 3,500,000 acre-feet is used to regulate floodwaters of the North Fork Clearwater River and for power generation. The 94 percent forested watershed yields clean water with low nutrient loads to

the reservoir. Its great depth (in excess of 190 meters) combines with these low nutrient conditions to keep the reservoir in an oligotrophic status. Access to the reservoir is somewhat difficult due to the steepness of the heavily forested canyon walls surrounding it. Three developed recreation access points with boat ramps and other facilities have drawn increasing numbers of visitors to the reservoir each year. Visitor days of utilization for boating, fishing and other recreational activities are approaching a third of a million per year, making this reservoir one of the most popular recreation reservoirs in the state.

Echo Lake in the northern Seven Devils mountains is a subalpine lake situated on a rocky bench draining to the west into the Snake River via a tributary of Granite Creek. Its basin seems to be older and more stable than the nearby basins of Shelf Lake and Gem Lake. A much deeper soil mantle is present and the immediate shoreline is well timbered with large trees. The well-developed littoral shelf around the edge of the lake indicates a much older basin. Echo Lake is fed by a stream draining He Devil Lake.

Fernan Lake is a fairly small lake (450 acres) located 1/2 mile north of Lake Coeur d'Alene. It lies in a forested watershed, but its lakeshore is classified as 1/3 urban (Fernan Valley). The lake is a very popular fishing and boating lake. A well developed recreational access is located at the southwest end. The east end contained a dense cover of floating-leafed water lily in mid September.

Gem Lake, at the top of the Basin-Shelf-Gem "chain" of lakes, has even less soil cover in the drainage. Forested cover is likewise reduced at its 7800 ft elevation. Talus slopes and rock cliffs

dominate the drainage. A notable characteristics of this lake is its sparkling azure color.

Golden Lake also is located in the Railroad Ranch State Park in the Henry's Fork of the Snake River drainage. The lake is maintained as a waterfowl protection area, but the shoreline is subject to heavy grazing activity. Shoreline land use is mixed timber and grazing land. The lake is very shallow and is heavily covered with submersed and floating aquatic macrophytes. There appears to be approximately 90 percent coverage of the lake surface area with aquatic macrophytes.

Goose Lake is a 380-acre high mountain lake (elevation 6362 feet) on Goose Creek, a tributary of the Little Salmon River in the Payette National Forest. This oligotrophic lake receives its water from a pre-dominantly forested watershed that has a moderate (20 percent) amount of grazing. Because of its remoteness recreational activities on the lake are generally limited to fishing and sightseeing. This lake was included in the study population of lakes to serve as one of the benchmark high-quality oligotrophic lakes for trophic status classification.

Hauser Lake lies along the northern edge of the Rathdrum Prairie, and is adjacent to the Washington-Idaho border. The watershed is almost entirely privately owned. There is a large public recreation access on the south shore, with a boat ramp, swimming beach and playing field. Heavy development of rooted macrophytes is apparent throughout the lake. Emergent vegetation primarily lilies and reeds, is present along the north and west shores. Eutrophication problems have been recognized at Hauser and severe oxygen depletion has taken place in some years.



He Devil Lake is a very shallow cirque lake situated above Echo Lake. Its drainage is mostly talus slope rock with sparse timber coverage. Its shallow depth may account for its good fish productivity. There appears to be moderate grazing pressure in the near shoreline areas of this lake from a small band of mountain goats.

Hell's Canyon Reservoir below Oxbow Reservoir and deeper into Hell's Canyon is a storage project built primarily for power production. Most of the shoreline on Hell's Canyon Reservoir is not only treeless, but grassless as well with the lower slopes of precipitous basalt cliffs. Little vegetation cover exists on Hell's Canyon Reservoir shorelines. There are at least two campgrounds located on Hell's Canyon Reservoir with a moderate amount of boating use along with some fishing.

Hoodoo Lake is about ten miles north of Spirit Lake, Idaho. Hoodoo Creek, the main inlet, flows in from the southeast through an open marshy area in the northern end of the Rathdrum Prairie. Hoodoo Lake appears to be entering old age. The average depth is about 1/2 meter. There is one small, deeper area (about 1.2 meters), but most of the shoreline area had a depth of only a few inches at the time of the lake visit (early October). The sediments (muck) along shore are at least waist-deep. A sediment sample from the middle of Hoodoo emitted a very strong sulfur odor. Hoodoo does offer a unique environment. The water is basically clear and many frogs and turtles were observed. Recreational pursuits would be primarily walking, picknicking and bird watching.

Island Park Reservoir is located in the Henry's Fork drainage of the Upper Snake River. This reservoir is heavily drawn down for

irrigation water supply. Heavy algal blooms are common in August and September of each year. Forested watershed almost entirely surrounds the reservoir, but the reservoir receives heavy nutrient loading via the Henry's Fork River from sources in Henry's Lake and heavily grazed lands between Henry's Lake and Island Park Reservoir.

Lake Lowell in southwest Idaho was originally known as Dear Flat Reservoir and is formed by three earthfill dams enclosing a natural depression. The lake lies offstream in the Boise Project area near Nampa. It stores 190,000 acre-feet and is filled during the non-irrigation season from water diverted at the Boise River Diversion Dam via the New York canal. This very shallow lake also receives water from irrigation return flows from Boise Valley irrigation projects. It is an extremely productive reservoir with a relatively stable water level. It fluctuates a few feet annually but the relative stability does permit very heavy development of rooted aquatic macrophytes, especially of the semifloating forms such as Polygonum (pigweed). These macrophytes form very extensive beds on the south and east shores of Lake Lowell. The reservoir is heavily used by migratory waterfowl in the fall, winter and spring. This use is heavy enough to constitute significant nutrient loading.

Lake Pend Orielle, in the Idaho Panhandle, is by far the largest lake in Idaho. It has a shoreline length of 200 miles, covers 126 sq. miles, and has a maximum depth over 350 meters, ranking it among the deepest in the United States. The watershed is approximately 23,000 sq. miles, ninety percent of which is in Montana. The entire watershed has a population of 240,000 people, including large towns such as Butte and Missoula, Montana. The Idaho portion of the watershed includes

about 16,500 people, up from approximately 11,000 in 1970. The water quality of Pend Oreille is reportedly excellent in spite of heavy nutrient loadings due to its great depth and tremendous nutrient capacity prevents apparent eutrophication.

Lake Waha is in the Soldier's Meadow, Waha, Manns Lake waterstorage system of the Lewiston Orchard Irrigation District. It was a natural lake apparently formed by a landslide, but the water levels have been controlled over the past 60 years by diversion into the lake for storage and subsequent controlled pumped release from the lake by the LOID. Lake Waha historically was a clearwater cutthroat trout fishery, but over the past few decades it has deteriorated because of turbidity problems and phosphorus loadings via a diversion canal bringing storage water in from an adjacent (Webb Creek) watershed. This diversion brings in most of the silt and annual phosphorus load to the lake. As a result heavy algal blooms occur on the lake through the entire summer. The immediate shoreline area is 60 percent timber and 40 percent grass. The shoreline area is very steep on all sides so cattle grazing immediately adjacent to the lake is limited. The watershed and lands adjacent to but above the lake are heavily grazed.

Lake Walcott on the Snake River, also referred to as Lake Minidoka, is the location of the Minidoka National Wildlife Refuge. The refuge, established in 1909, contains 25,630 acres (12,000 of which are water and marsh), and is an important link in the chain of National Wildlife refuges in the Pacific Flyway. Up to 250,000 waterfowl at a time may be observed on the refuge in the Fall. The reservoir has dual management priorities: power generation and waterfowl. Skiing and boating are encouraged during the summer and a very pleasant park is

maintained near the dam for picknickers. Rangeland is the major land-use along the shoreline and in the watershed. The lake exhibits eutrophic characteristics, perhaps due largely to mainstream loading and the management emphasis for waterfowl habitat.

Lamont Reservoir, an off-stream reservoir in the Bear River drainage near Preston, is used for storage of irrigation water. Nearly all of the surrounding watershed is agricultural land but water diverted to the reservoir comes from the nearby mountains. The reservoir is shallow but it does stratify and has a shallow euphotic zone due to suspended solids and organic content. At the time of sampling in late July there were no signs of algal blooms and the littoral zone was free of emergent macrophytes. The reservoir does not appear to be used much for recreational purposes although there is one boat ramp on the south side of the reservoir. There are several larger reservoirs in Franklin County which are more heavily used for recreation. Lamont Reservoir typifies many of the small irrigation reservoirs in the Bear River drainage with its high conductivity and alkalinity resulting from the limestone geology prevalent in the watershed.

Little Camas Reservoir on a small tributary of the South Fork Boise River in Elmore County is typified by highly turbid water, a very shallow euphotic zone, intensive algal blooms, and other characteristics of a eutrophic lake in spite of its location on the Boise National Forest. Most of the watershed area is grazing land which helps to explain the high nutrient concentrations in this shallow highly productive reservoir. Recreational activities consist of fishing and camping. It is readily accessible for these activities with its location just off of U.S. Highway 20 between Mountain Home and Fairfield - the

major route between Boise and Sun Valley. On most weekends between spring and late fall one will find at least a few campers and fishermen at this reservoir.

Little Wood Reservoir on the Little Wood River is used primarily for irrigation water storage. The lands comprising the immediate shoreline are very steep and are sagebrush covered. The reservoir is set in a canyon probably 80 to 100 feet below the surrounding table lands. Due to the steepness of the canyon walls, access to the reservoir is very limited to both people and cattle. There is, perhaps a maximum of two boat ramps on the reservoir; one near the dam and one in the upstream end. Surrounding lands beyond the canyon are primarily grazing land with little cultivation above the reservoir along the Little Wood River. At the time of sampling, in August, 1981, there was a very heavy blue-green (Aphanizomenon) algal bloom in progress.

Lucky Peak Reservoir, built by the Corps of Engineers for flood control on the Boise River, is located about one mile upstream from the Boise River Diversion Dam and backs water up to Arrowrock Dam. While the major purpose of the 278,000 acre-foot reservoir was primarily flood control, an agreement among the Corps of Engineers, Boise Project Board of Control, and the Bureau of Reclamation allows operation of the reservoir for joint benefits of irrigation and power generation as well. Although there are presently no power generating facilities at Lucky Peak Dam, operation in conjunction with other reservoirs on the Boise River enhances power production at other dams. Since the reservoir is located close to Boise, recreational activities at this reservoir are intensive and produce the second highest number of visitor days of usage of any reservoir in the state. Camping facilities,

however, are minimal and the adjacent state park is operated for day use only. Lucky Peak Reservoir lacks the scenic attractions of many of Idaho's lakes and reservoirs (shorelines are dry, sagebrush-covered lands) but its proximity to Idaho's largest population concentration results in extensive and intensive boating and waterskiing utilization.

MacArthur Lake is located 15 miles south of Bonners Ferry along Highway 95. The surrounding land is the State-owned Boundary County Wildlife Management Area. The lake provides excellent duck habitat as it is 1/2 marsh with abundant emergent vegetation and waterfowl nesting habitat. The remainder of the watershed is primarily privately owned forest and is about ten percent agricultural land. The only access is on the north end where there is a boat ramp with fishing docks.

Mackay Reservoir is located on the Big Lost River in the high desert valley of the Big Lost River. This reservoir is typified by gravel shorelines in the lower reaches of the reservoir while the upper reaches are mud flats. A large portion of the shoreline area around Mackay Reservoir is owned by the Bureau of Land Management (BLM) and is grazed through the warmer months. The shoreline area consists of desert vegetation with some forested patches in the more distant parts of the watershed. The dam is owned and operated by the Big Lost River Irrigation Company for irrigation water storage. The reservoir is severely drawn down during late summer. The reservoir has several recreation accesses and boat ramps, some of which have been developed and hardened by the BLM to sustain heavy use. The reservoir is heavily utilized by fishermen and is a high yield fish-producing reservoir.

Magic Reservoir is an irrigation storage facility on the Big Wood River. Immediate shorelines of this reservoir are almost totally sagebrush-covered lands with moderate grazing pressure. Since this reservoir provides irrigation water storage, the pool is severely drawn down and in extreme low flow years the storage volume may be reduced to 10 to 20 thousand acre-feet from its full level of 200,000 acre-feet. There are two fishing villages developed on the west and east sides of the reservoir, respectively. The reservoir receives heavy sport fishing pressure throughout the spring, summer and fall months despite the drawdown conditions of the pool. It has been a consistently productive rainbow trout and perch fishery. As the pool is lowered through the summer, the drawdown flats are grazed to take advantage of the lush grass production on the moist, gently sloping mudflats.

Mann's Creek Reservoir, not to be confused with Mann's Lake of Northern Idaho, is located on Mann's Creek, a tributary of the Weiser River in Washington County. This moderately deep (90 feet maximum) reservoir is typified by turbid water having elevated temperatures, organic content, algal blooms, and most of the other characteristics of a eutrophic lake. The alkalinity and conductivity values are unusually high for a reservoir in the west central part of the state. Recreational use consists primarily of camping and fishing and such use is moderate through most of the summer months. Located about 15 miles north of Weiser and about three miles off of U.S. 95, this reservoir is readily accessible. Camping facilities are available at the north end of the reservoir.

Mann's Lake in the Lewiston Orchards is the lowermost in three lake system storing irrigation water for the Lewiston Orchards

Irrigation District. Since it is the lowermost reservoir it generally has very turbid water throughout the year. Principal causes of the high turbidity of the inflow are related to excessive and poorly managed grazing in the upper reaches of the watershed and the excessive use of off-road recreational vehicles on the roads and tracks of the LOID watershed.

Milner Reservoir is a Snake River reservoir in south-central Idaho. The shape of the reservoir is very similar to the shape of the free-flowing river that preceded it. It is about 15 miles long and 1/2 mile wide. Milner Reservoir is exposed to a large variety of human influences impacting its water quality. As its water flows through the town of Burley, it passes a golf course, housing developments, and a potato processing plant. To the west the landscape opens into range and cropland. There is extensive boating activity on the east end, while fishing and sightseeing are more prevalent in the west end. The west end is popular with large flocks of ducks and geese as it is considerably more remote and less developed than the east. These sources are all superimposed on an already productive Snake River inflow to the reservoir.

Moose Creek Reservoir in Latah County is a small (70 acre), low-elevation (2883 feet) impoundment on Moose Creek, a tributary of the Potlatch River near Bovill. The waters of this shallow reservoir (mean depth = 1.5 meters) become very warm in the summer months and despite the full-depth mixing that occurs with this shallow depth, there is considerable oxygen depletion in the water near the bottom. With surface water recreation alternatives severely limited in Latah County, Moose Creek Reservoir has been a popular recreation spot for camping



and fishing in spite of less than desirable water quality as compared to other lakes and reservoirs in Northern Idaho.

Morman Reservoir, referred to on some maps as Twin Lakes Reservoir, is located about 5 miles south of Fairfield in Camas County on a tributary to the lower Big Wood River. The reservoir waters are released for downstream irrigation and the pool is very heavily drawn down. The last time the reservoir was sampled, in August of 1981, the pool had been drawn down just about to the dry point, with maximum depths of only 9 feet. It appears that most of the shoreline is heavily grazed by cattle and there is some extensive cultivation down to and adjacent to the reservoir's edge. The rest of the shoreline terrain is dry sagebrush-covered land with no timber adjacent to the reservoir. Summertime conditions in Morman Reservoir are such that the waters are extremely turbid primarily from suspended sediments resulting from shoreline grazing on the drawdown flats and from rapid drawdown exposing extensive mudflats to wave action.

Murtaugh Lake Reservoir lies on the Low Line Canal System, just south of the Snake River near Murtaugh. The lake is fairly shallow (5 meters) and the water clarity was very poor at the time of the visit. Irrigation return flow is probably a significant source of nutrients. Ownership of the watershed is divided between federal and private owners. Murtaugh Lake is exposed to a variety of human influence factors. The predominant landuses are agriculture and range but it appears to be a very popular boating lake with a developed campground on the southwest shore.

Oxbow Reservoir is a reregulating reservoir below Brownlee Dam on the middle Snake River in Hell's Canyon. This reservoir is a

flow-through, thoroughly mixed water body which does not show thermal stratification. The reservoir shoreline is typical of lower Hell's Canyon terrain which is steep, dry, rocky, mostly treeless terrain. A moderate level of camping and fishing occurs on Oxbow Reservoir.

Palisades Reservoir is on the Snake River just inside the Idaho border from Wyoming. The shorelines are gravel and rock with mud flats in the upper reservoir reaches. The near shoreline slopes are mostly forested with some meadows at the upper end of the pool. Most of the watershed is likewise forested. Palisades Reservoir is used primarily for flood control and for irrigation water storage so it is heavily drawn down during the summer months. Despite large summer drawdowns the littoral zone of Palisades Reservoir is very narrow due to the steep underwater slopes. This morphometric feature tends to limit productivity and increase its capacity to absorb nutrient loadings.

Perkins Lake is a Kaniksu National Forest lake at the head of the Curley Creek drainage in the Purcell Mountains. It is about 15 miles northeast of Bonners Ferry. The landscape is steep, forested hills with open grassy meadows in the valleys. A portion of the watershed (20%) is privately owned. At the time of the visit (mid September) the lake had a clear, gold-brown tint. The shoreline areas are very marshy. A dense growth of reeds is present to a distance of 10 meters from shore on the west and north, and lillies are abundant on the east and south shores.

Portneuf Reservoir is located on the Portneuf River, a major tributary to the Snake River above American Falls Reservoir. The higher elevation portions of the Portneuf watershed are mixed sagebrush and timber land while the watershed areas closer to the reservoir are mixed

sagebrush and dryland farming lands. An algal bloom was in progress at the time of the sampling visit in early August. Portneuf Reservoir is heavily used by fishermen and the reservoir is a good fish producer.

Priest Lake on the Priest River in northern Idaho is entirely surrounded by coniferous forest rising ridges of granitic peaks on the east and north edges of the watershed. The shorelines are interspersed with recreational development. There are several campgrounds all around the lake but these comprise a relative small part of the total shoreline. Priest Lake is a glaciated basin with resulting gradual changes in the shoreline and bottom configuration.

Redfish Lake is the most oligotrophic lake in the study population of lakes, according to the trophic status index methodology developed in this study. Redfish Lake is a 1507 acres lake located in the headwaters of the main Salmon River and within the boundaries of the Sawtooth National Recreation Area. This lake is surrounded by watershed that is predominantly forested but a significant portion of the watershed (about 20 percent) consists of barren rocky peaks jutting above the timberline. With its rugged, beautiful scenery and sparkling clean waters together within the Sawtooth National Recreational Area, Redfish Lake each year attracts many visitors (over 39,000 visitor-days in 1980) who fish and boat on the lake or simply enjoy the beautiful scenery. The lake is deep (maximum depth of 90 meters) for a high mountain lake. This nutrient absorption capacity will help the lake to withstand the pressures associated with intensive recreational activities on and around the lake.

Ririe Reservoir on Willow and Sand Creeks, minor tributaries of the Snake River in Bonneville county, is a flood control reservoirs.

Out of a total reservoir capacity of 100,500 acre-feet, 80,500 acre feet serves both flood control and irrigation, 10,000 acre-feet is dead storage and the top 10,000 acre-feet is held exclusively for emergency flood control operations. The dam is owned and operated by the U.S. Bureau of Reclamation and it is situated about 15 miles northeast of the city of Idaho Falls. The first storage on this new reservoir was provided in 1976. The Willow Creek watershed is mostly dryland farm ground and the reservoir itself is surrounded primarily by dryland wheat lands. Water from Grays Lake Outlet joins Willow Creek a few miles above the reservoir providing an additional nutrient drainage to the reservoir. Little is known of the fishery in Ririe reservoir.

Rose Lake is the uppermost lake of a chain of eight lateral lakes that lie along the Coeur d'Alene River just east of the southern end of Coeur d'Alene Lake. Access is by two boat ramps on the eastern shore, where there is also a small picnic area. It is experiencing some fairly rapid population growth in its watershed, and the shoreline is currently seventy percent developed. There is some emergent vegetation along much of the shoreline with a large concentration of floating-leaved water lily on the west side.

Round Lake on Cocolalla Creek is a small shallow (6m mean depth) lake in Round Lake State Park, 15 miles southwest of Sandpoint. The watershed is primarily coniferous forest with some agricultural land use. Round Lake is downstream from Cocolalla Lake, a lake with documented eutrophication problems. A large campground is located on the north side of the lake and approximately 50,000 people visit the park each year, including many Canadian visitors. Motorboating is prohibited on the lake, so its use is mainly fishing, swimming and hiking.

Salmon Falls Reservoir is located in a high desert environment, twenty miles north of Jackpot, Nevada. It is approximately ten miles long and .8 mile wide. At the early September visit, during a dry year, the depth varied from over 35 m in the north end to mudflats in the south. While the reservoir is managed for irrigation storage, it is a popular fishing and boating lake. A portion of the drainage area has been recommended for wild and scenic land designation. There is a boatramp and a campground at the north end and there are a variety of undeveloped access points around and southern half. The reservoir receives some recreational use by patrons of the Jackpot casinos and it is promoted in their advertising literature. Little evidence of eutrophication was observed during the early September visit.

Seven Devils Lake is adjacent to the Seven Devils campground and is accessible by automobile. The shoreline of this small, old lake is about 80 percent timbered. This lake is heavily stocked with catchable rainbow trout, the stockings probably being the most significant nutrient source to the lake. Debris on the lake bottom in shallow areas and people-worn shorelines show obvious signs of very heavy fishing use.

Shelf Lake, situated at a slightly higher elevation, has much less timber in the watershed and is surrounded by extensive rock cliffs approaching 1000 - 1500 feet in height. Steep talus slopes with very sparse timber coverage extend to the lake shoreline. One campground adjacent to the lake has a few tent sites and is accessible only by foot or horseback. The sparse soil cover around the lake is shallow and fragile.

Silver Lake is located on the Railroad Ranch in the Henry's Fork drainage. Surrounded by forested land, the lake was once a marsh, but after raising the water level by a low dam the lake was created for a waterfowl use area. The lake is heavily covered with submersed and floating macrophytes. There is apparently little recreational use of Silver Lake because of no boating access to the lake, protection, and heavy weed growth.

Soda Point Reservoir is a Utah Power and Light Company reservoir located on the Bear River near Soda Springs, Idaho. This long, narrow reservoir with a capacity of about 12,000 acre feet is very narrow at the lower end, expanding to a broad shallow pool in the upstream half. The very shallow upstream portion of the reservoir is used by recreationists for carp fishing, including fishing with bow and arrow. Only a small portion of the reservoir immediately adjacent to the dam contains deeper water. Soda Point Reservoir receives water released from Bear Lake for irrigation and power generation purposes. The water levels in this reservoir are fluctuated daily for pondage for power generation by Utah Power and Light Co. There is substantial livestock grazing on the south side of the reservoir.

Soldier's Meadow Reservoir is the uppermost reservoir in the system of three water bodies used for irrigation water storage by the Lewiston Orchards Irrigation District. This reservoir is subject to extreme late summer drawdown of the water levels as storage water is released during the summer months. Considerable disturbance of the shoreline and reservoir bottom by off-road vehicles and by livestock results in silt-and algae-caused turbidity problems through the summer and fall months.

Spirit Lake is another of the lakes nestled in the hills along the west side of the Rathdrum Prairie. As with many of the northern lakes, its beauty is enhanced by its irregular shape and many bays. The bays are also the areas where eutrophication problems are most evident. The southern bays all have extensive rooted macrophyte populations and some emergent vegetation is present. The northern bay of the lake borders on the town of Spirit Lake and has solid macrophyte coverage on the bottom of its shallow waters. As with other lakes in the area (Twin and Hauser), the majority of the watershed and lakeshore are in private ownership. Ninety percent of the watershed is forest land. The shoreline of Spirit Lake is extensively developed on the north and east. The 1980 census indicates that Spirit Lake is experiencing human population pressures. There are approximately 440,000 people living within 50 miles of Spirit Lake, ranking it among the highest lake use populations of all the study lakes. It also appears that the watershed population has almost doubled between 1970 and 1980, to approximately 2,000 residents. While the water quality of Spirit Lake is generally good, the lake's popularity could be threatening its quality.

Stanley Lake in the Stanley Basin is a relatively small lake situated in the foothills of the Sawtooth Mountains. The drainage basin is mostly forested as is most of the shoreline. A granitic sand beach extends along the delta areas of the tributaries of the west side of the lake. Stanley Lake has very heavy recreational use and campground developments cover about 20 percent of the total shoreline on the west side of the lake.

Swan Falls Reservoir on the Snake River near Murphy is a power storage reservoir with relatively small storage capacity. The waters

of this reservoir are characterized by high turbidity from high concentration of planktonic algae, organic content, and silt from irrigation return flows. Most of the problems associated with a eutrophic lake are evident in this reservoir except that, as a flow-through reservoir, it does not generally stratify. The euphotic zone is shallow due to poor light penetration through the turbid water but the epilimnial depth extends throughout the water column. The Snake River Birds of Prey Natural Area is located along the north shoreline of this reservoir.

Swan Lake is a very small lake (25 acres) near St. Maries, Idaho. Application of the Trophic Status Index ranks it the most eutrophic of all study lakes. It appears to be receiving a direct and steady supply of nutrients. Its condition prohibits almost any type of recreational use. Access to this lake is extremely limited with private farmlands surrounding the lake. This lake was retained in the study population of lakes as a representative of hyper-eutrophic conditions.

Tolo Lake near Grangeville on the Camus Prairie is located on Telcher Creek, a tributary of the Salmon River. This small pond (39 acres) is one of the very few lakes in the Salmon River drainage below 6000-feet in elevation. Its low elevation and heavy agricultural inputs are the reasons for its inclusion in the study population of lakes. Tolo Lake is one of the most severely eutrophic lakes in this study. Its water is characterized by very high nutrient levels, turbidity, alkalinity, and total suspended solids. There doesn't seem to be enough light penetration to sustain algal blooms as organic content was low even during mid-August sampling. In spite of these undesirable



characteristics of the lake there is still some recreational use of the lake.

Trinity Lake is located high (elevation 7750 feet) in the mountains of the Boise National Forest on a tributary to the South Fork of the Boise River. Land use in the watershed is almost 100 percent range, some of which is private but most of which is federally owned. The lake is accessible via Forest Service roads and back-country roads through Pine or Prairie, Idaho.

Twin Lakes Reservoir is located in the Bear River drainage. This off-stream reservoir receives water diverted from the Mink Creek drainage and transported by pipeline to Twin Lakes Reservoir for irrigation water storage. The lake is surrounded primarily by sagebrush and grass grazing land with some dryland farming on the east side of the reservoir and irrigated farming on the west side of the reservoir. These surrounding farm lands are out of the immediate reservoir drainage area. The north basin sediments of the reservoir seem to be entirely covered by rooted aquatic macrophytes. These rooted macrophytes were showing at the surface in the littoral zone but appeared to be heavy even the the maximum depth of the reservoir (7 meters). Rooted macrophytes were much reduced in the south basin of the reservoir. Twin Lakes Reservoir receives extensive recreational use for fishing and water skiing. There are several boat ramps on each basin for access.

Upper Priest Lake is in northern Bonner County, twenty miles south of the Canadian border. Upper and Lower Priest Lakes both have two major owners in their watersheds. The eastern watersheds are state owned while the western are federally owned. Access to Upper Priest is by boat via the Thorofare which connects Upper and Lower Priest Lakes,

or by foot. Motor boats are permitted in Upper Priest Lake, but no water skiing is allowed. There are two maintained camping areas and many smaller sites are visible. The lake and the Thorofare are very popular with canoeists. There is also heavy use from boaters and fishermen. The watershed contains the only Caribou herd in the lower 48 states. During the early October visit, rooted macrophytes and emergent vegetation were evident only in the north end. The developed campgrounds were receiving heavy use, even at that late date.

Warm Lake in the Boise National Forest is a 445-acre mountain lake at 5,000 ft in the Salmon River drainage. This lake is readily accessible on Forest Service roads from the town of Cascade. Warm Lake Creek, draining Warm Lake is a tributary of the South Fork Salmon River. This lake is of moderate depth having a maximum depth of about 25 meters. Typical of high-mountain oligotrophic lakes, this lake has sparkling clear waters and is supplied by runoff from a completely forested watershed. One surprising anomaly surfaced with this lake, however; total coliform and fecal coliform counts were relatively high. Warm Lake has some significant developments on its shoreline which may be contributors to the coliform problem. There are approximately 365,000 people living within 80 miles of Warm Lake which, together with its reasonable accessibility, supports intensive recreational use of the lake. While the water quality of Warm Lake is generally good, the lake's popularity could be a threat to this quality unless some protective measures are initiated.

Williams Lake, 11 miles south of Salmon, is located on a tributary to the Salmon River on the Salmon National Forest. Although this lake is a moderately deep (23 meters mean depth) high-elevation mountain

lake, it shows significant signs of eutrophication. Water near the surface is turbid due to high organic content as well as inorganic suspended sediments; deep water oxygen depletion is a regular summertime occurrence; nutrient concentrations are high; and heavy infestations of algal blooms are a regular summertime problem. Although the lake is in the Salmon National Forest, the most significant land use in the watershed is range. It is suspected that the predominant grazing land use, coupled with heavy recreational use of the shoreline areas, contributes significantly to the higher-than-expected productivity in this deep, high-elevation lake.

Winchester Lake, also referred to as Lapwai Lake, is located on Lapwai Creek, a tributary of the Clearwater River. This lake stratifies in spite of its shallow mean depth (4 meters). The high total suspended solids concentration and organic content result in a very shallow euphotic zone. The lake is plagued by algal blooms and oxygen depletion. Watershed land use is divided between dryland agriculture and forest cover, but the shoreline is nearly all forested making a pleasant setting for the state park in which the lake is located. Lake shorelines, however, show much evidence of over-use and trampling by recreationists. The lake is readily accessible and is located about 30 miles from Lewiston. Recreational utilization is fairly heavy with about 50,000 visitor-days per year of use.

Wilson Lake Reservoir lies on the Northside Canal System just north of the Snake River and about 5 miles east of Eden, Idaho. It is a shallow (7 meter maximum depth) reservoir used for storage of irrigation water. The watershed is primarily privately-owned agricultural land. Cropland and grazing land are the major landuses near the

lakeshore. There is one recreational access point on the south shore and the facilities include a boat ramp, dock, and picnic tables. At the time of the visit in early September, an algae problem was evident and large masses of macrophytes were floating near the center of the lake. The shorelines near the dam resemble river banks, with partially submerged trees and a variety of emergent vegetation. The east end of the lake is entirely covered by a stand of bulrushes.

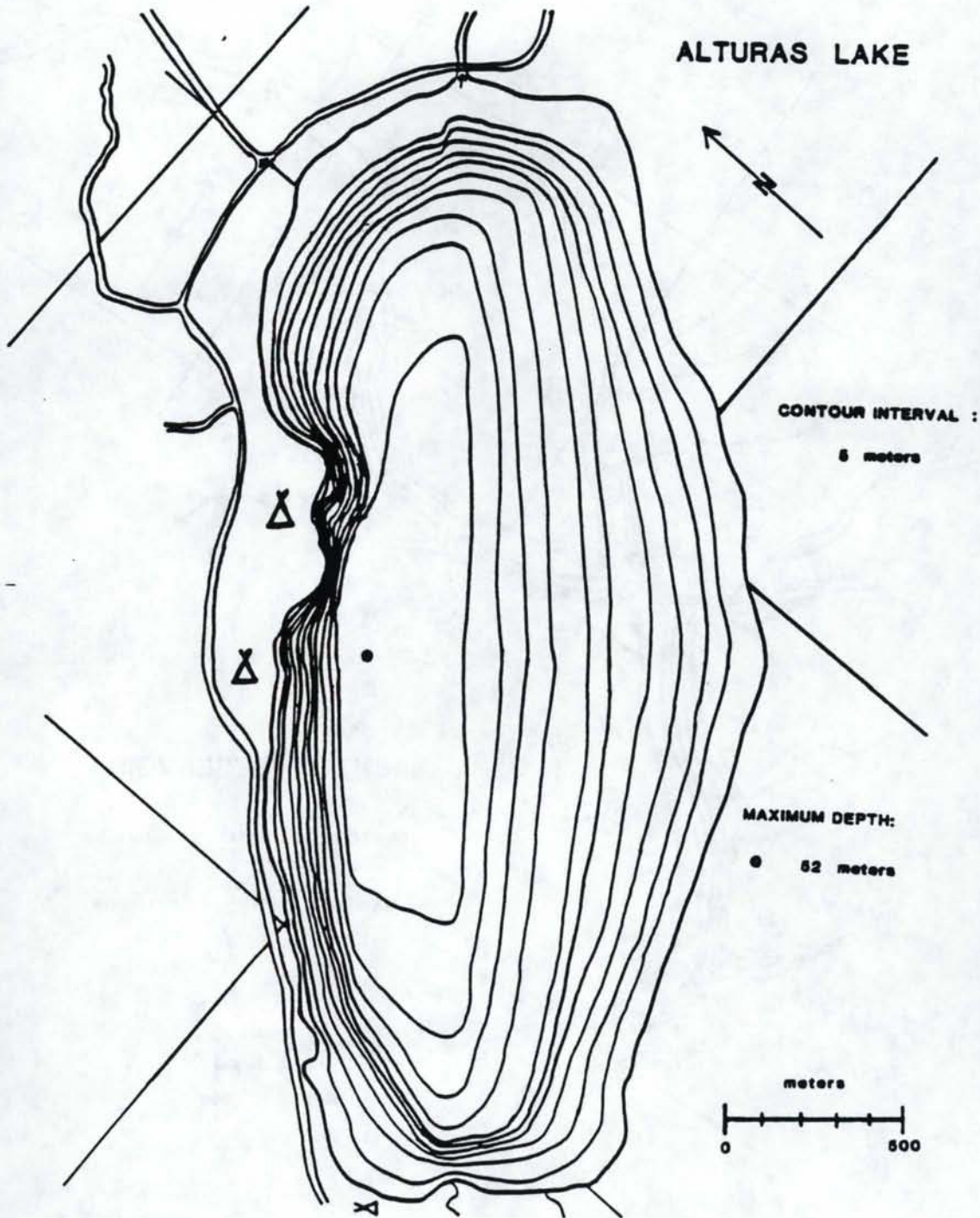


Figure D-1. Lake Morphometry Maps

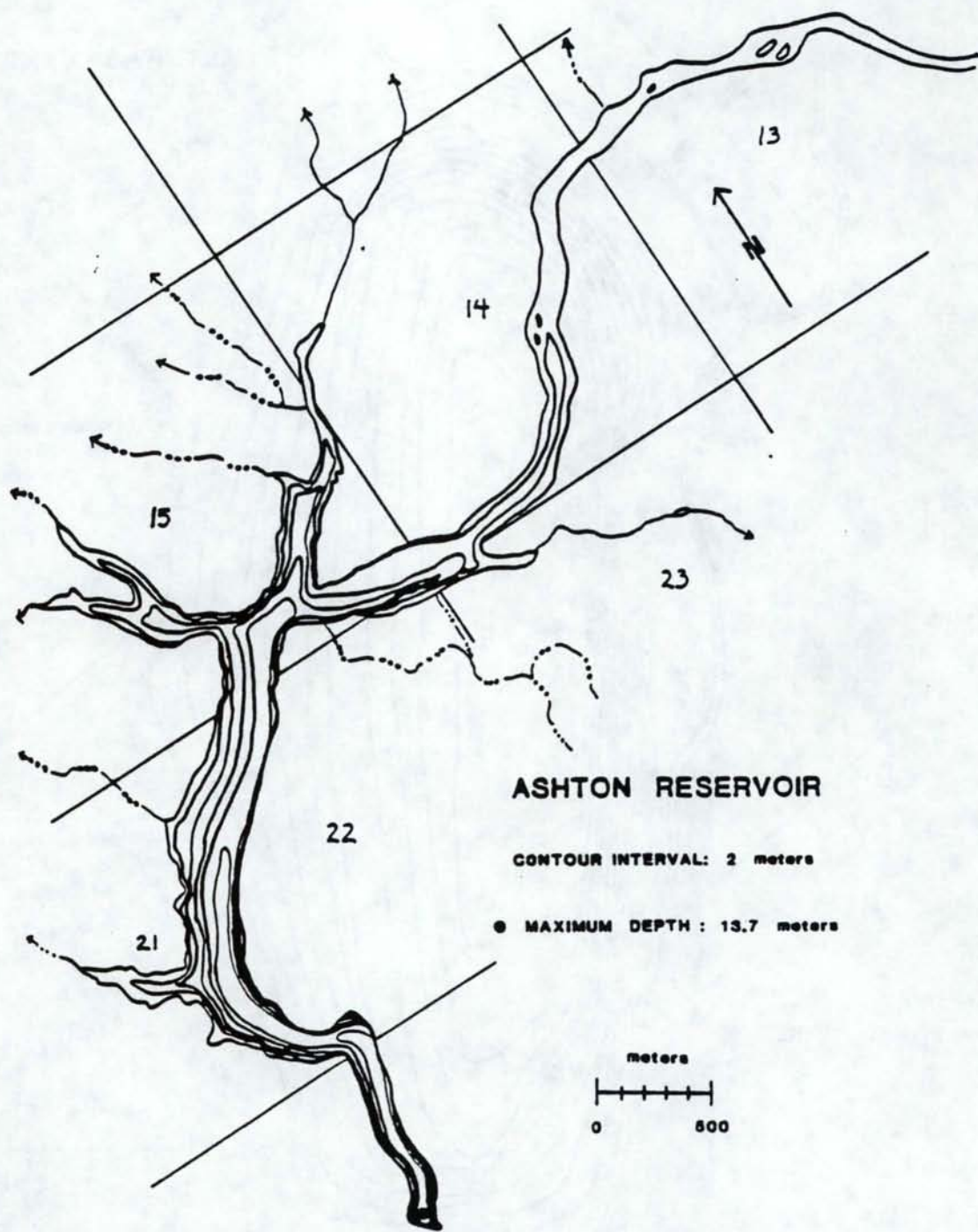
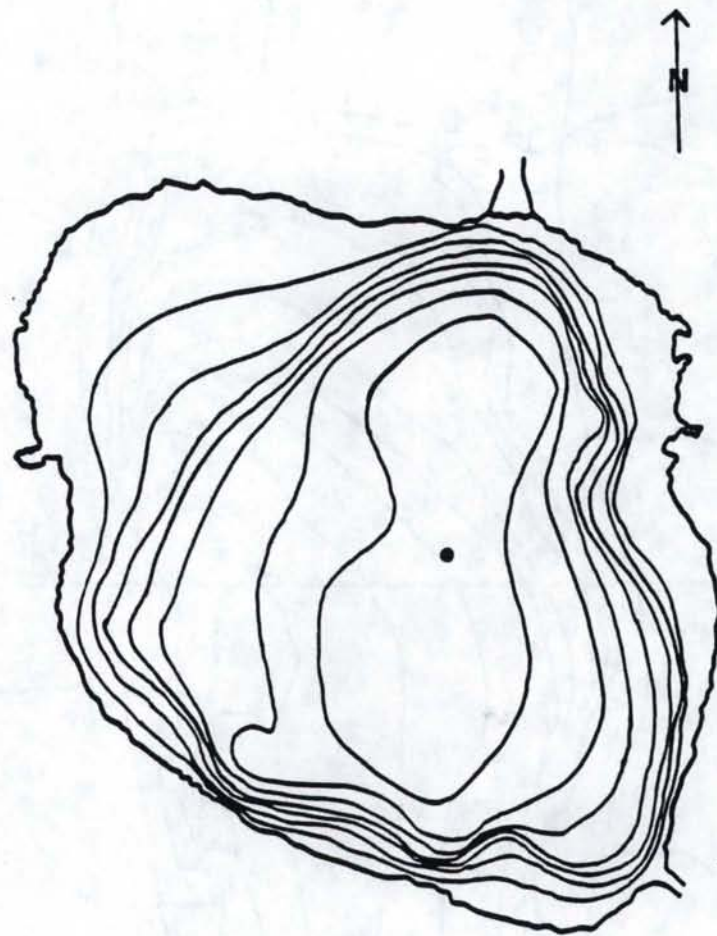
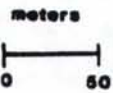


Figure D-1. Lake Morphometry Maps (continued)



**BAYHORSE LAKE**



**CONTOUR INTERVAL : 1 meter**

**MAXIMUM DEPTH: ● 7 meters**

Figure D-1. Lake Morphometry Maps (continued)

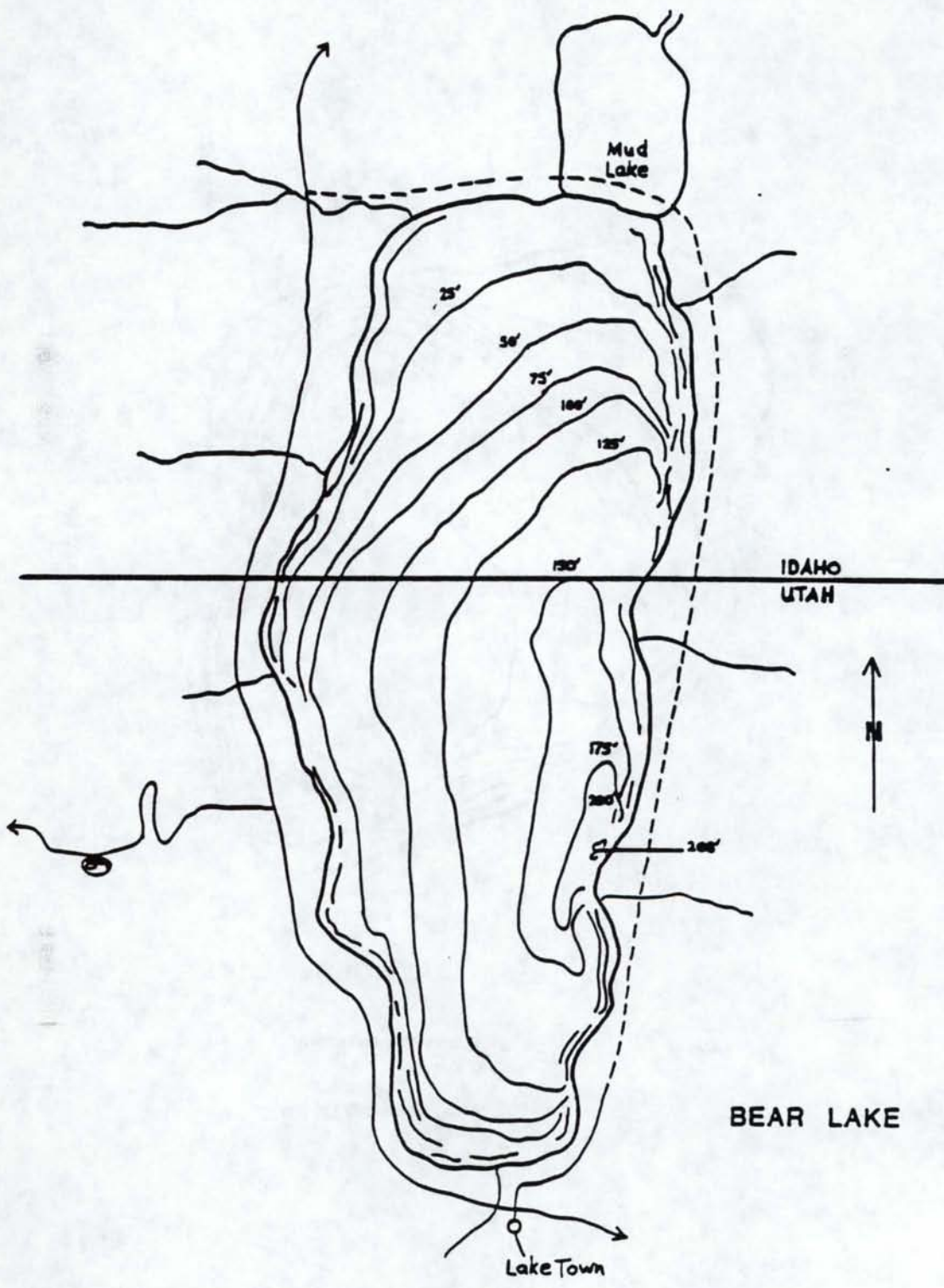


Figure D-1. Lake Morphometry Maps (continued)



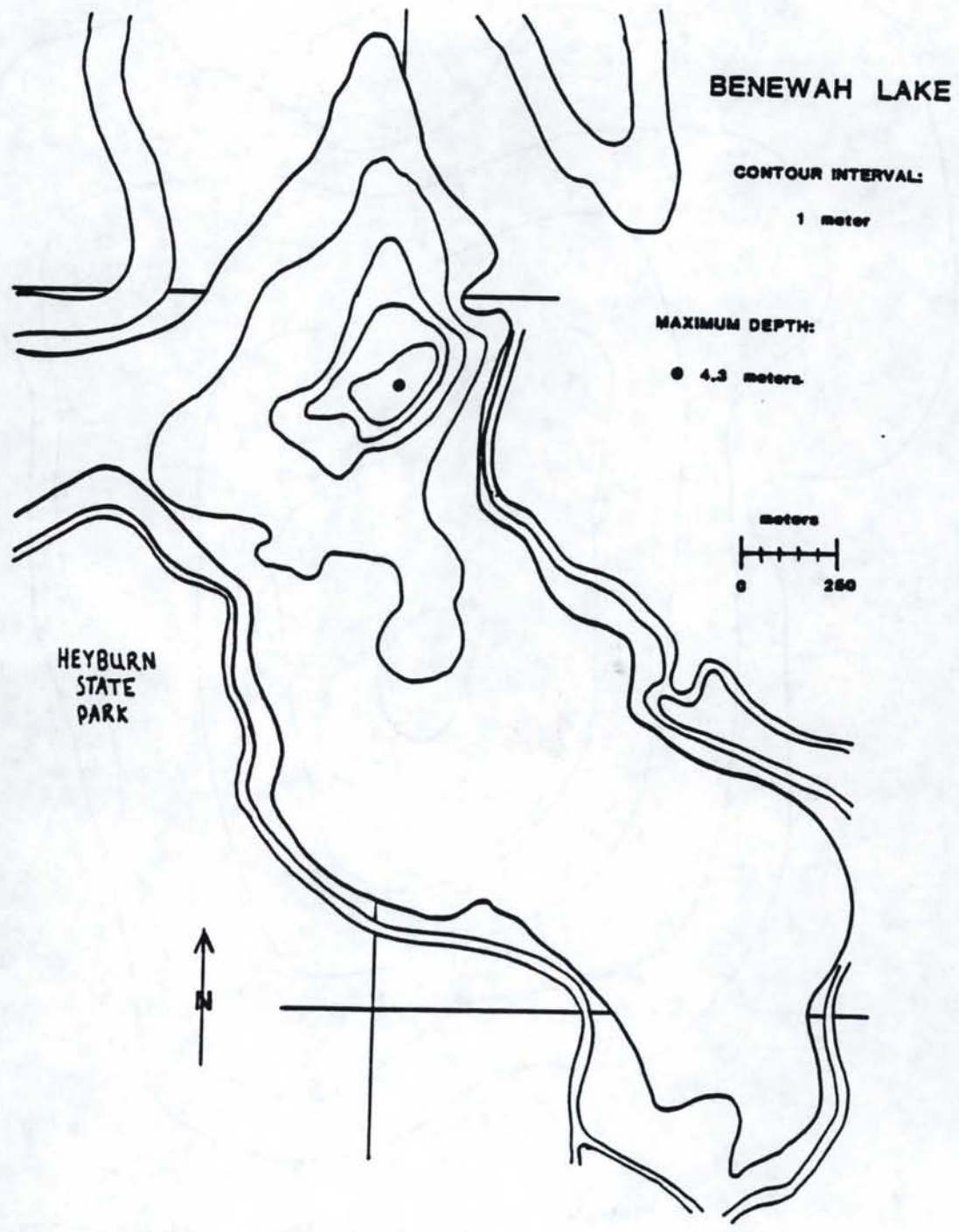
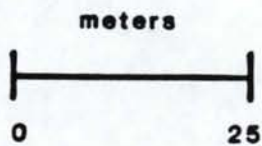
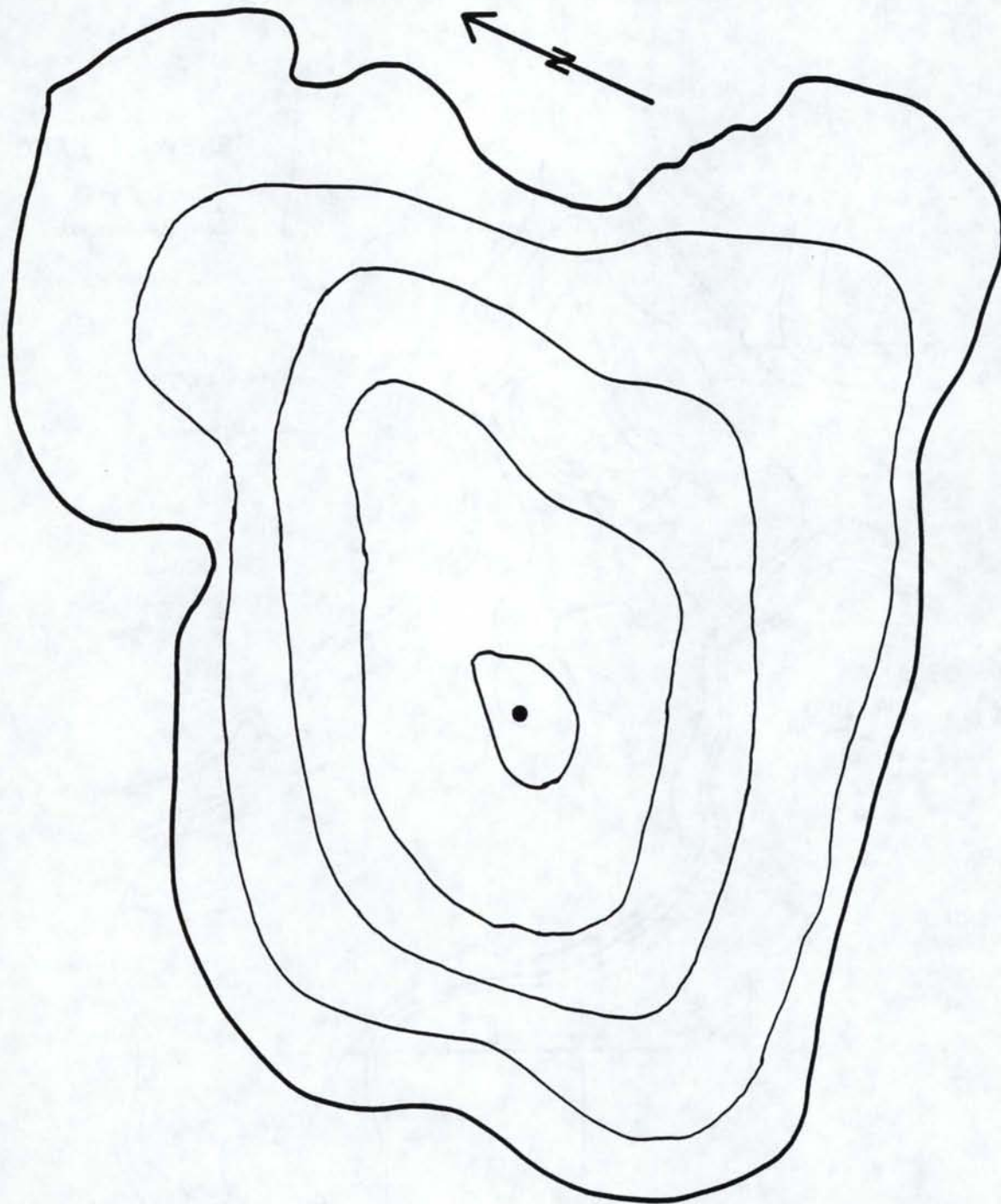


Figure D-1. Lake Morphometry Maps (continued)

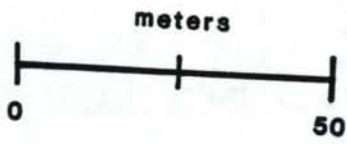


## LOWER BERNARD LAKE

CONTOUR INTERVAL: 2 meters

MAXIMUM DEPTH: ● 8.2 meters

Figure D-1. Lake Morphometry Maps (continued)



# UPPER BERNARD LAKE

CONTOUR INTERVAL: 1 meter

MAXIMUM DEPTH: ● 2.7 meters

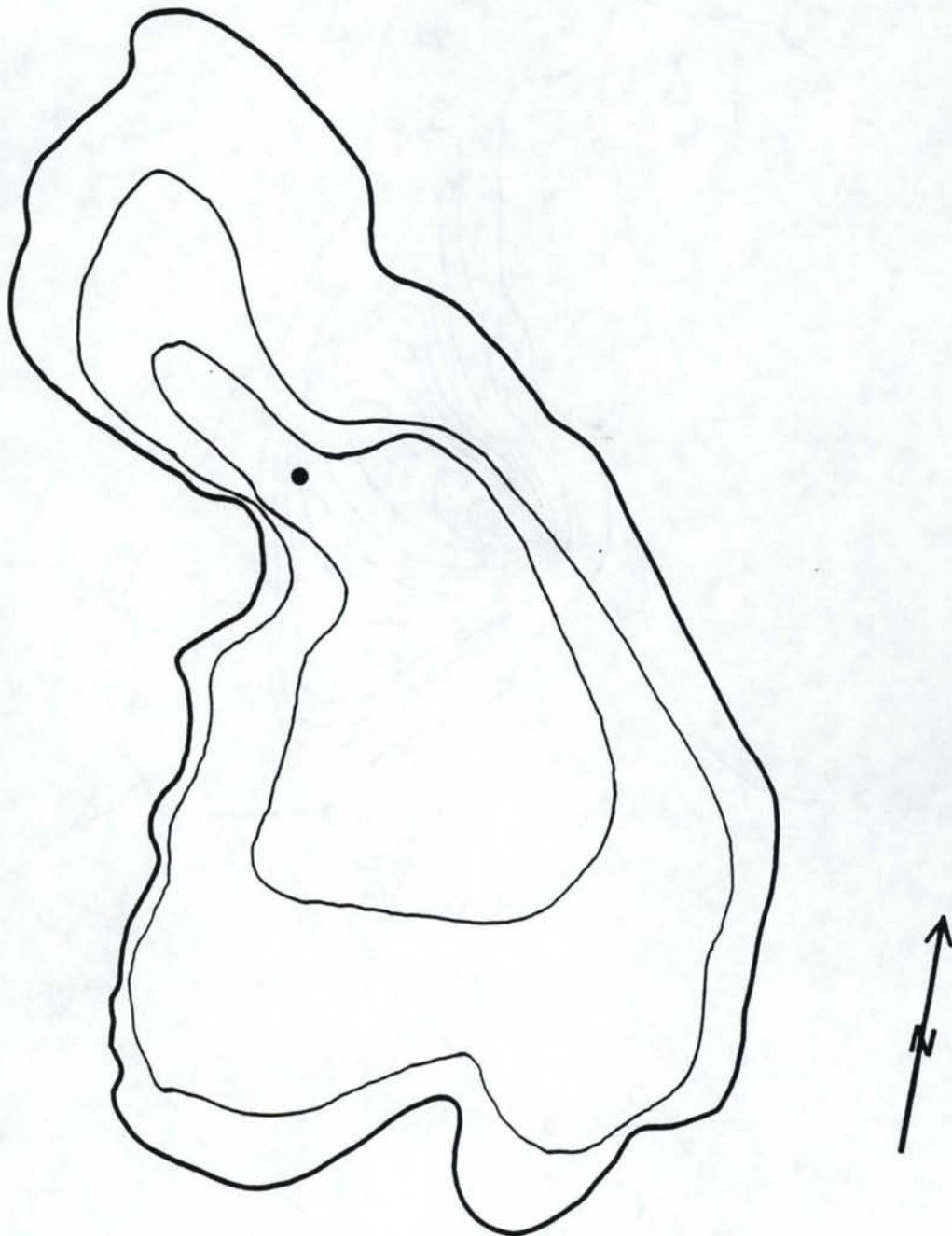


Figure D-1. Lake Morphometry Maps (continued)

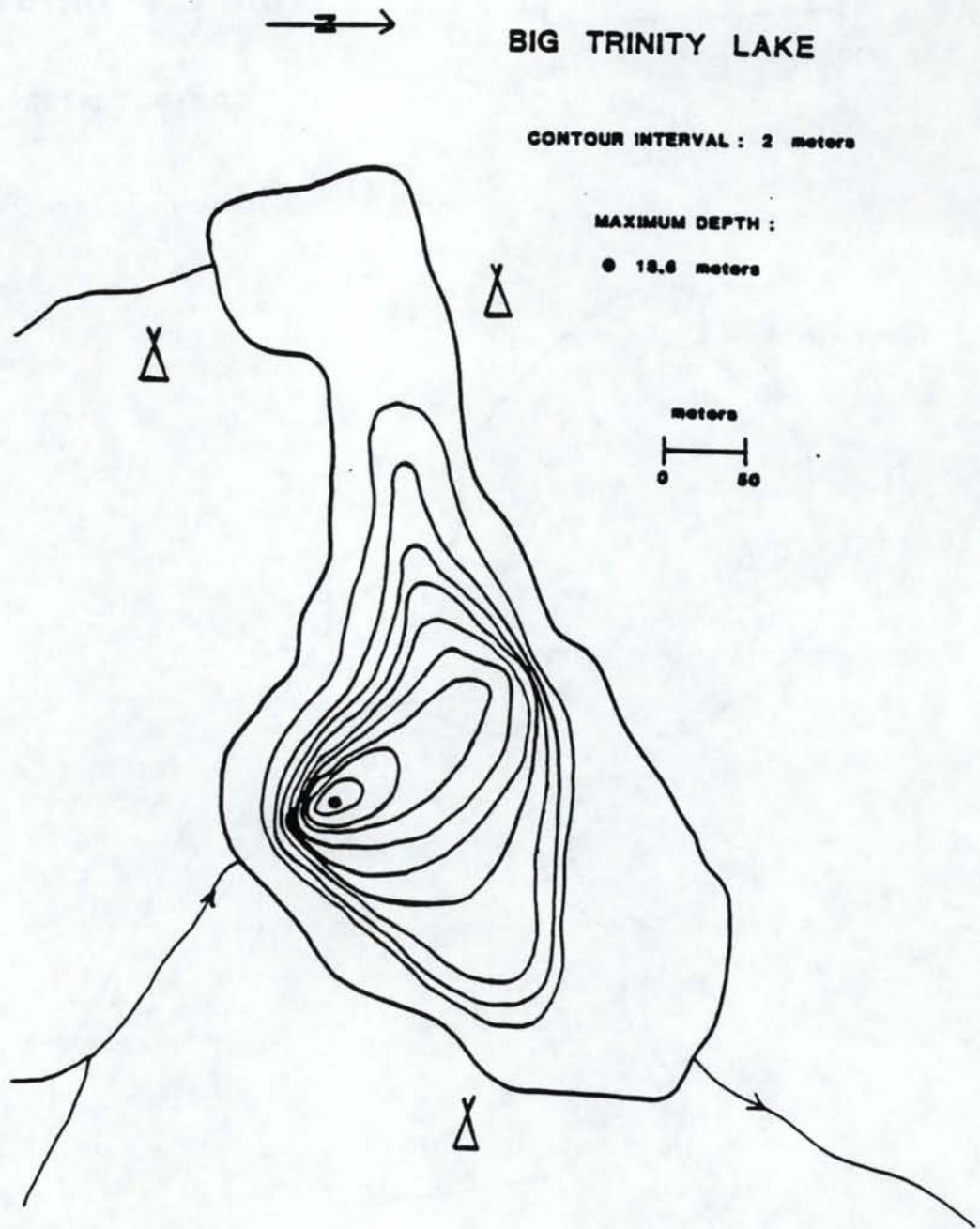


Figure D-1. Lake Morphometry Maps (continued)

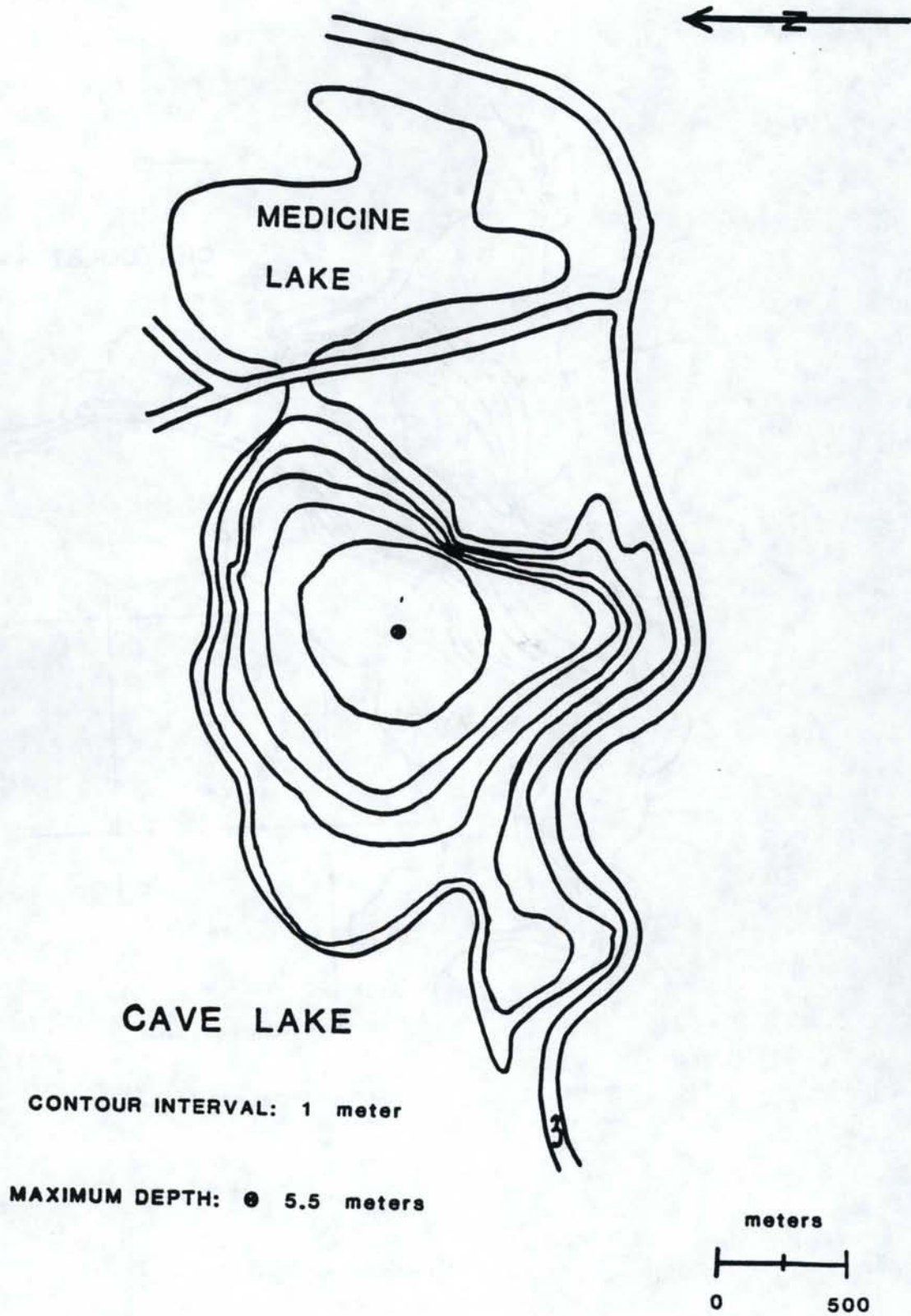


Figure D-1. Lake Morphometry Maps (continued)



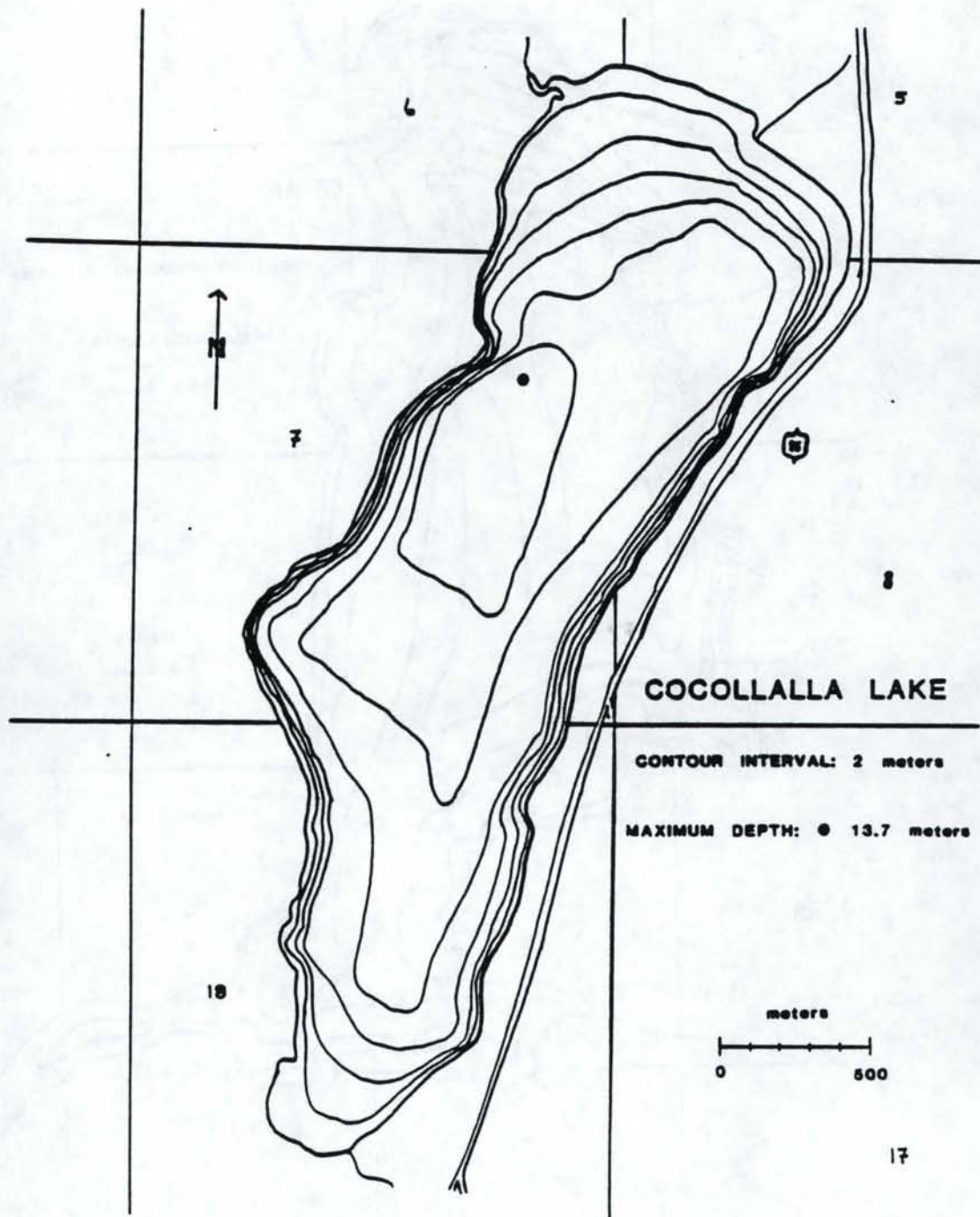


Figure D-1. Lake Morphometry Maps (continued)

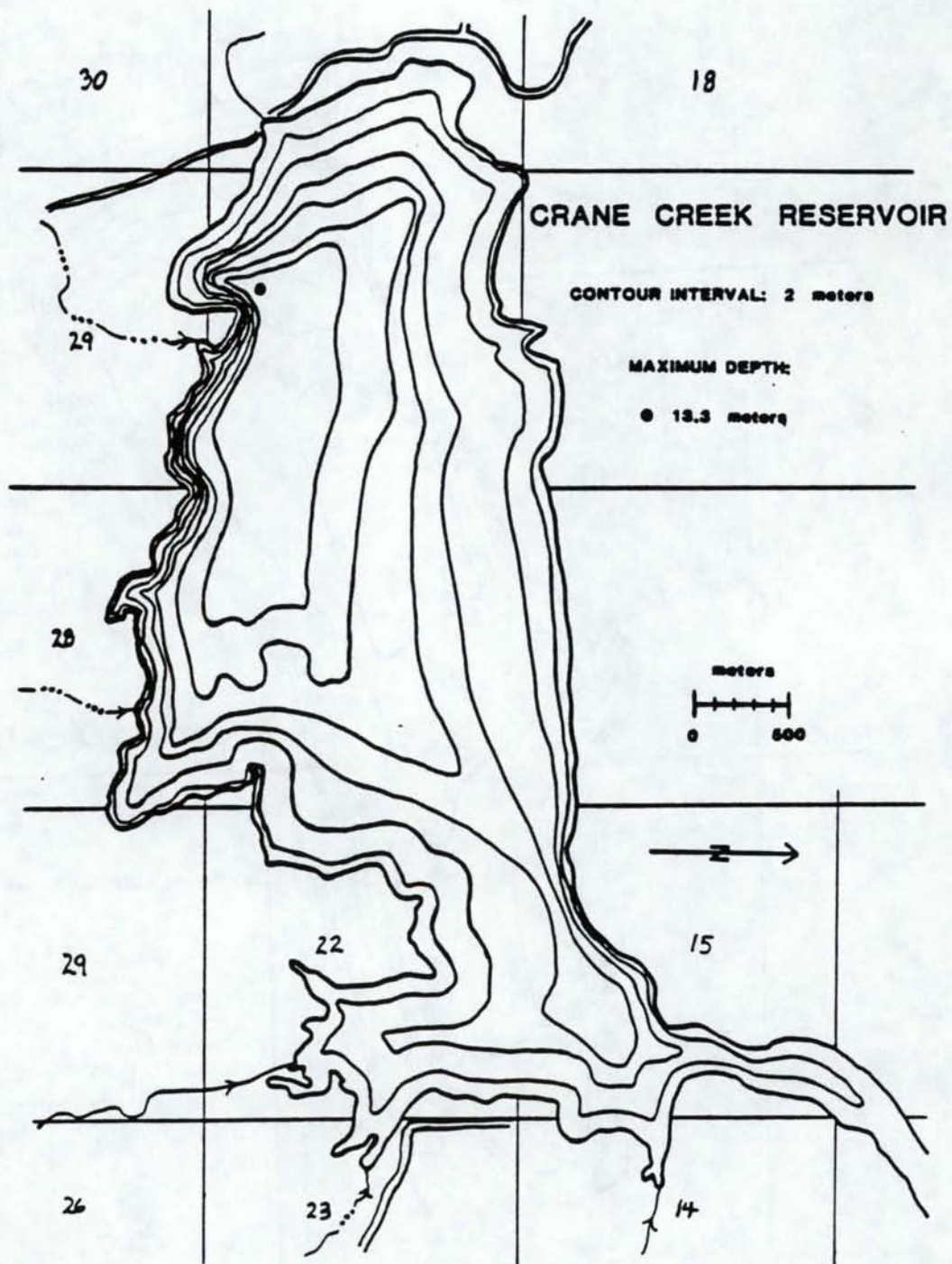


Figure D-1. Lake Morphometry Maps (continued)



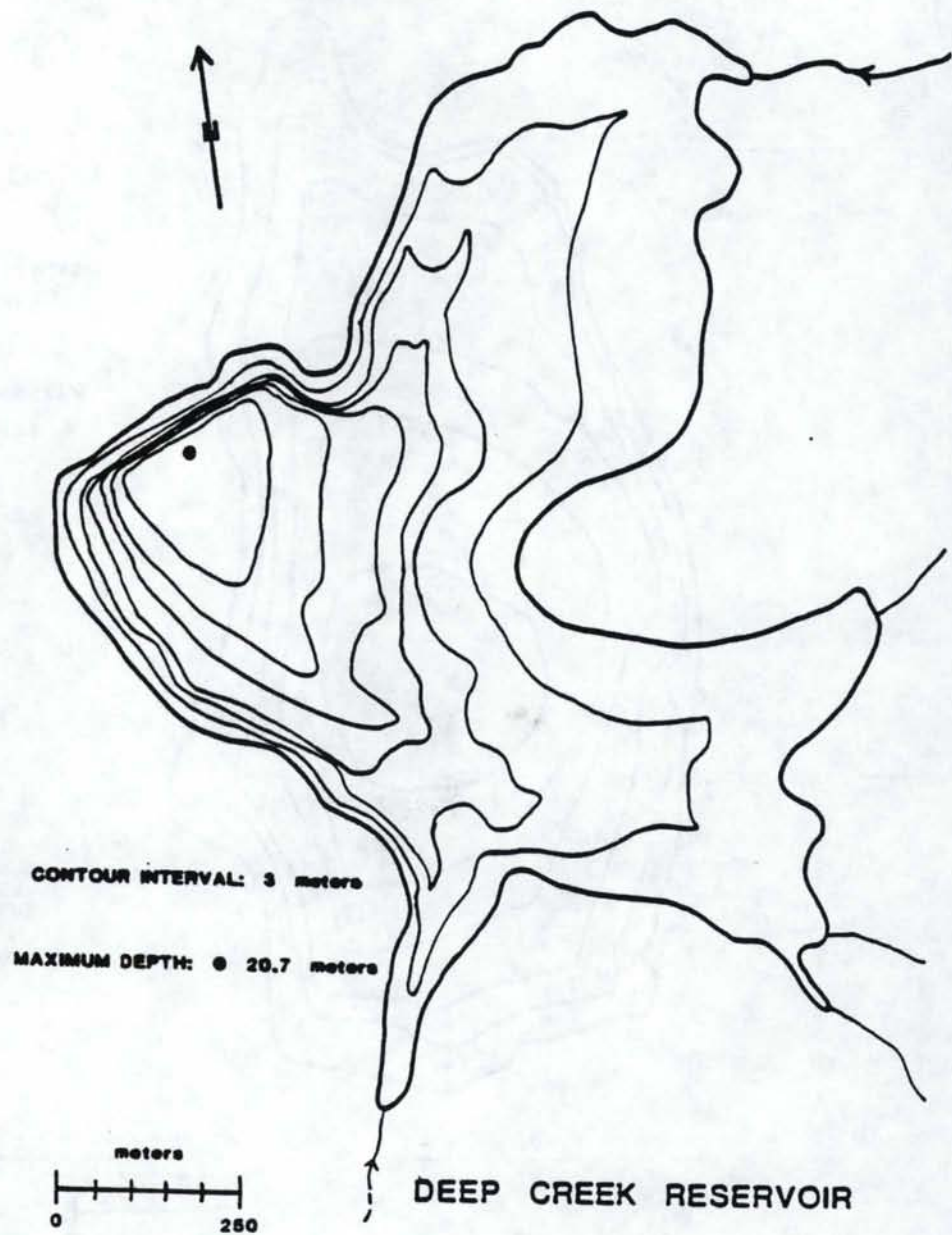


Figure D-1. Lake Morphometry Maps (continued)

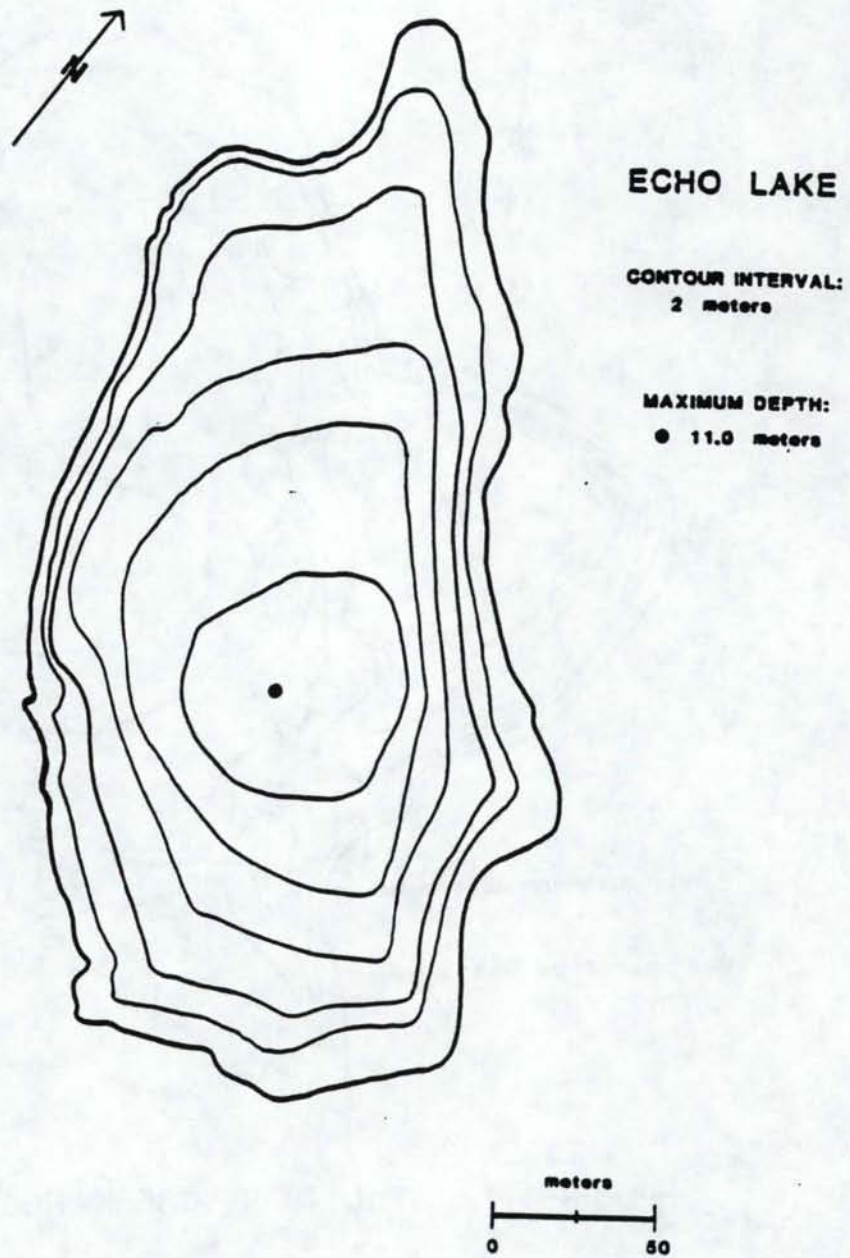


Figure D-1. Lake Morphometry Maps (continued)

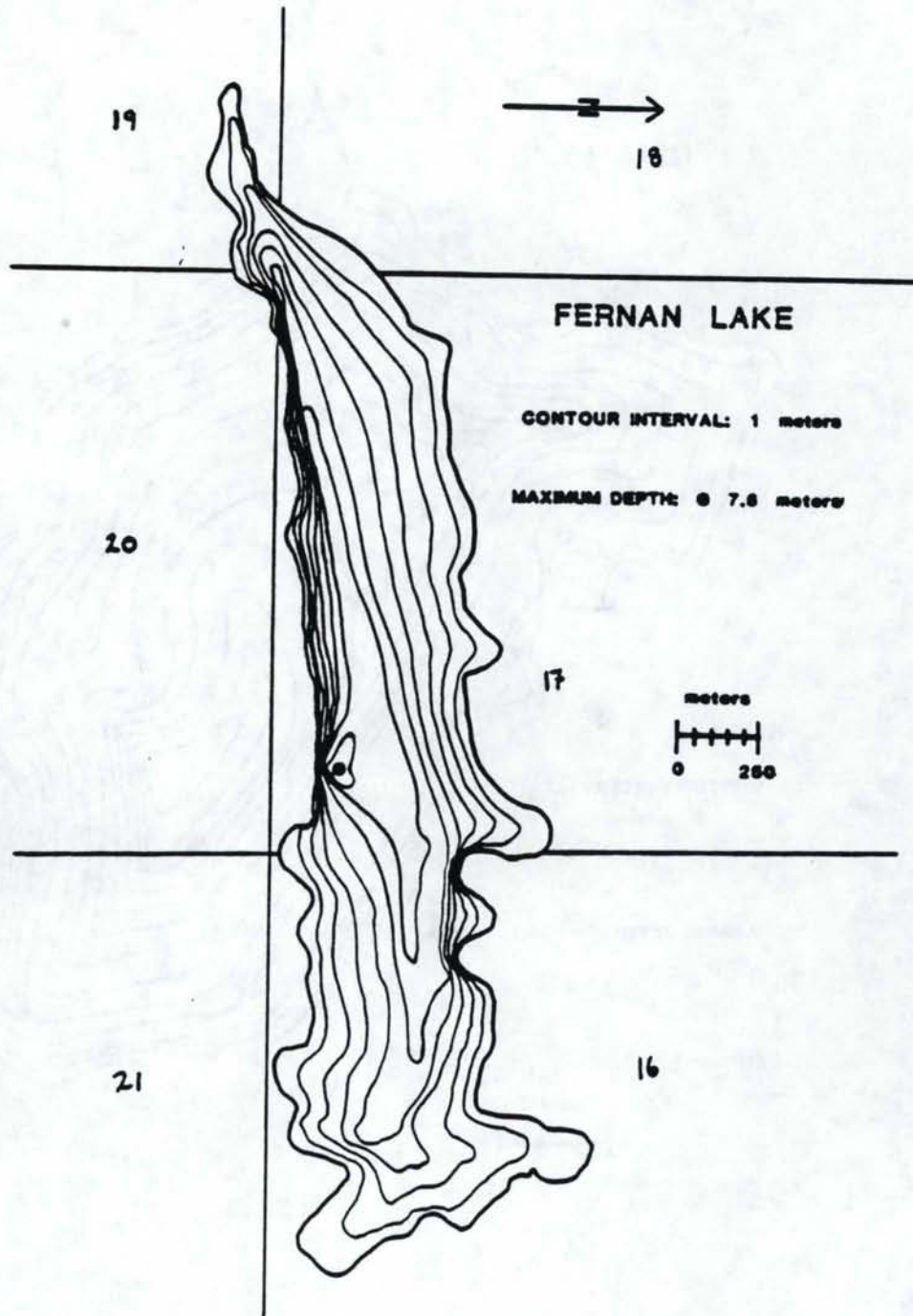


Figure D-1. Lake Morphometry Maps (continued)

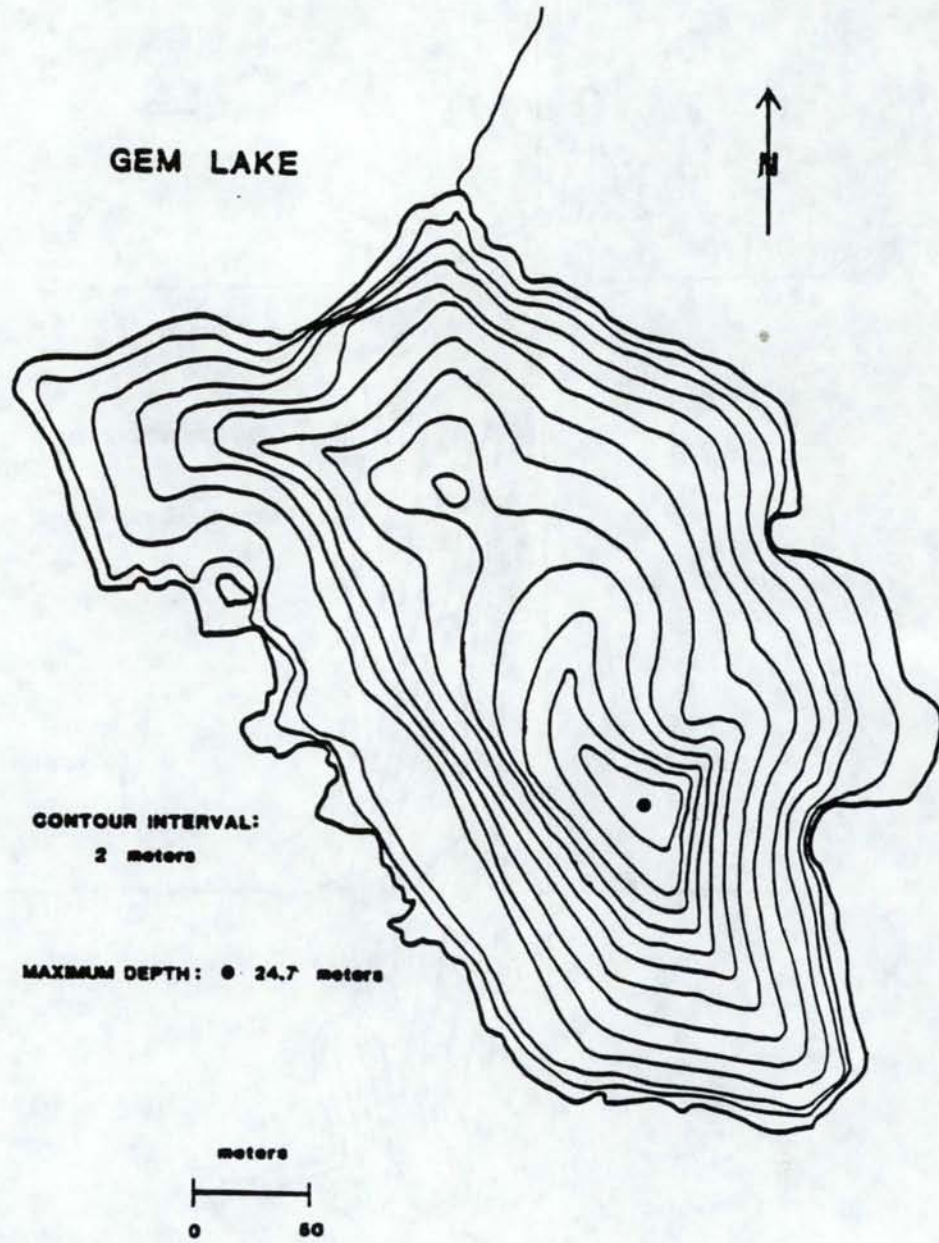


Figure D-1. Lake Morphometry Maps (continued)

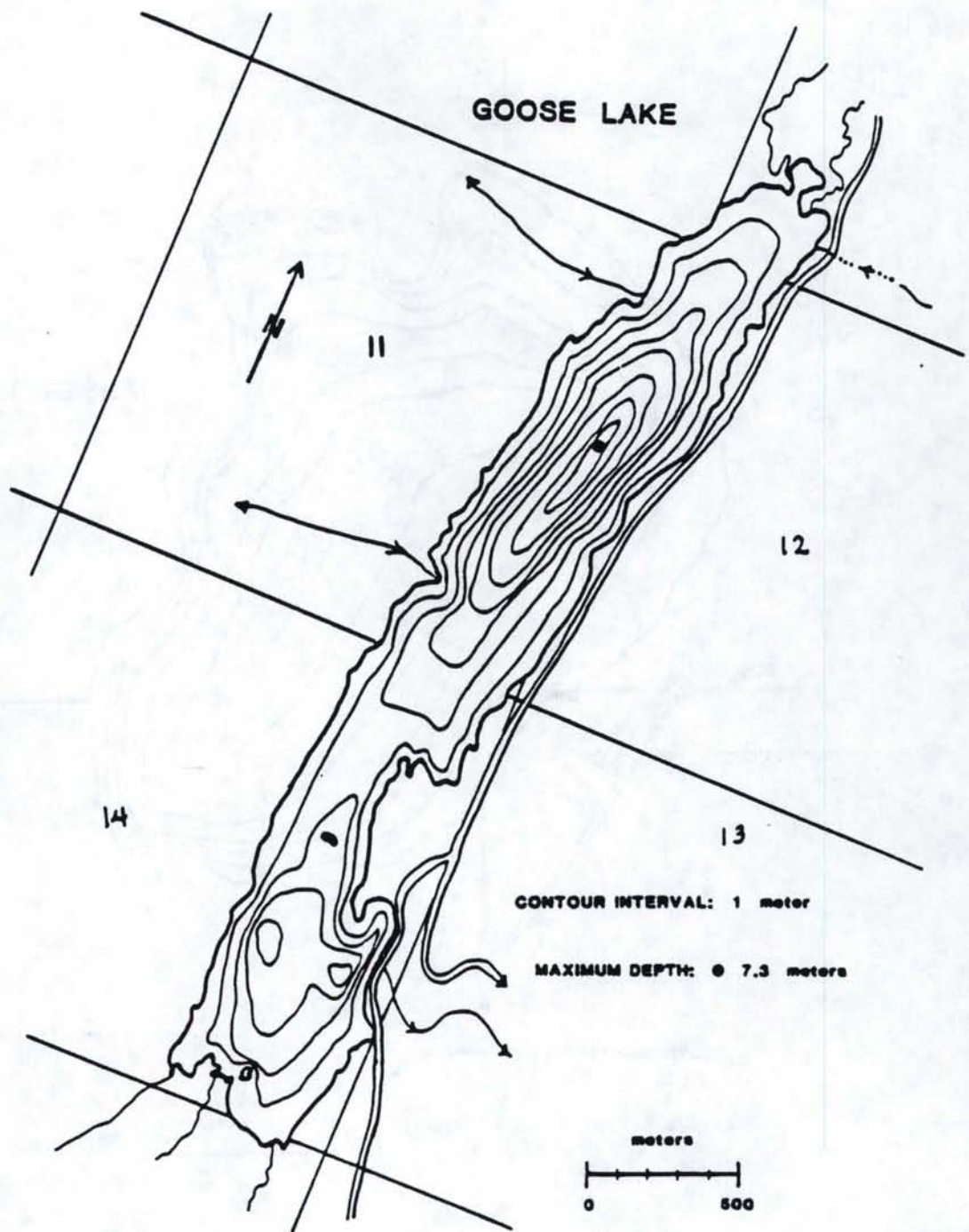


Figure D-1. Lake Morphometry Maps (continued)

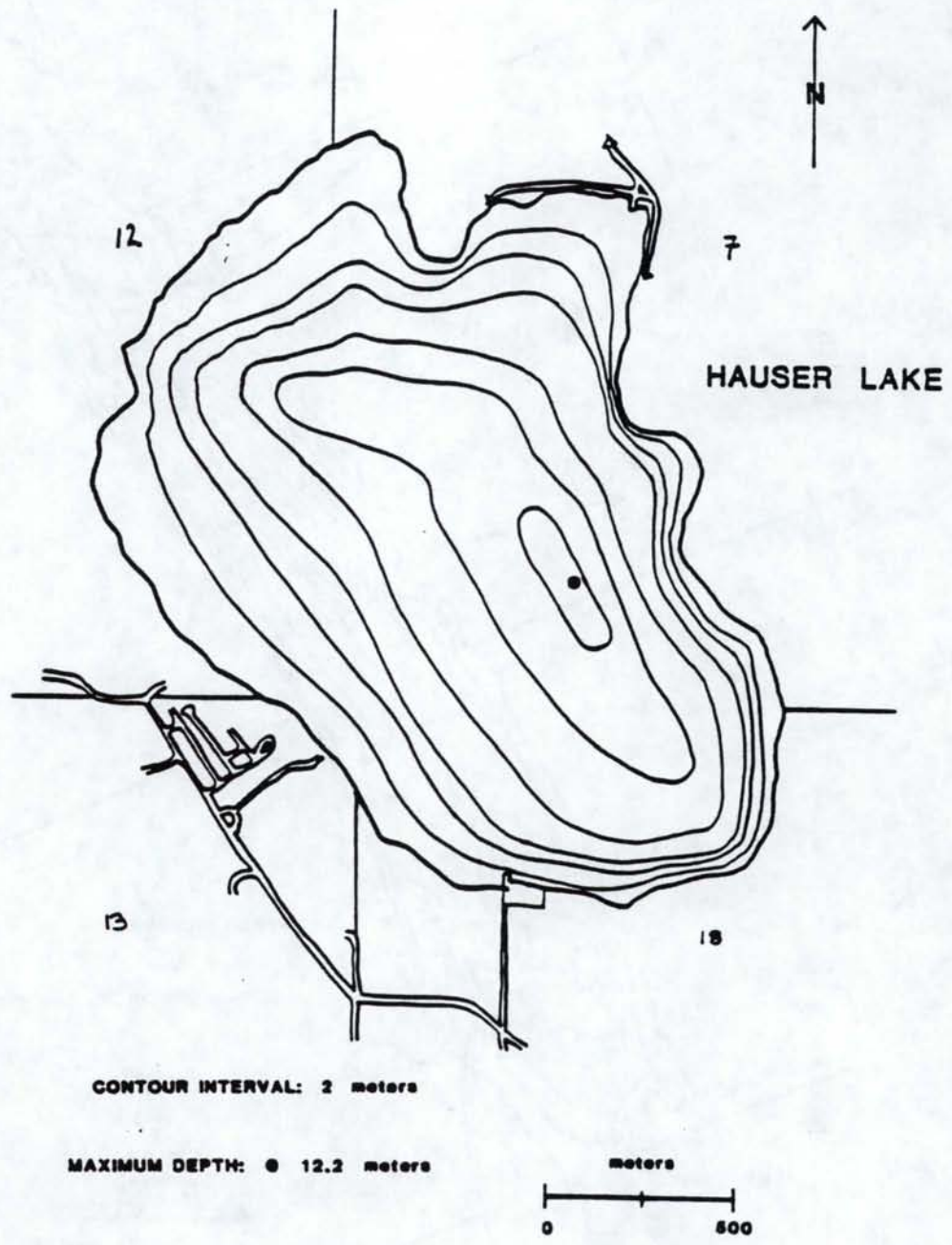


Figure D-1. Lake Morphometry Maps (continued)



# HEDEVIL LAKE

CONTOUR INTERVAL: 1 meter

MAXIMUM DEPTH: ● 5.8 meters

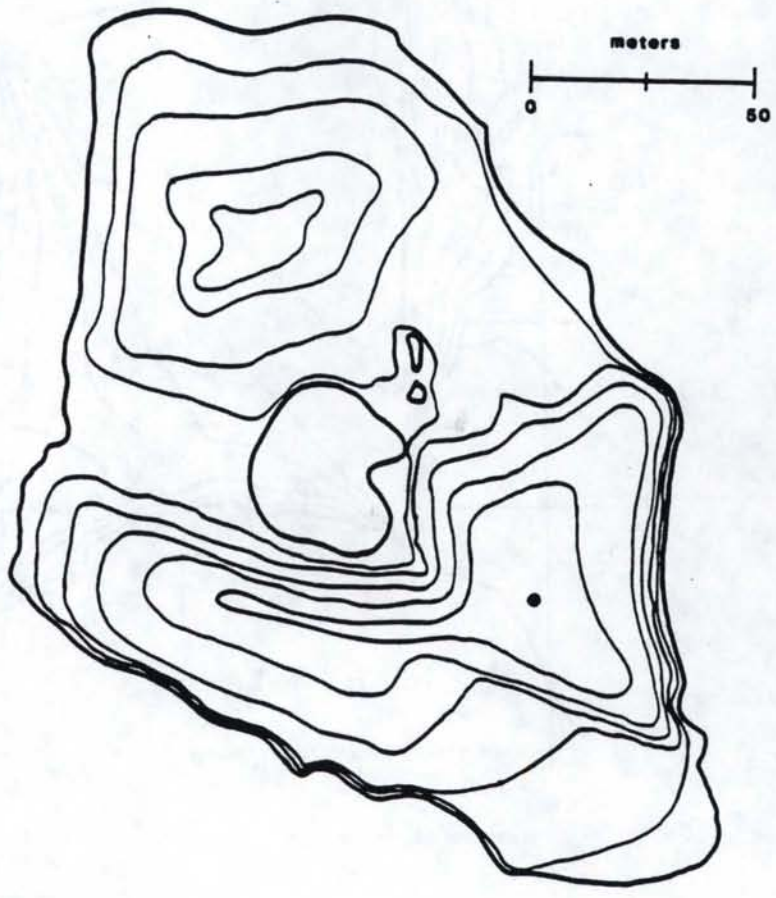


Figure D-1. Lake Morphometry Maps (continued)

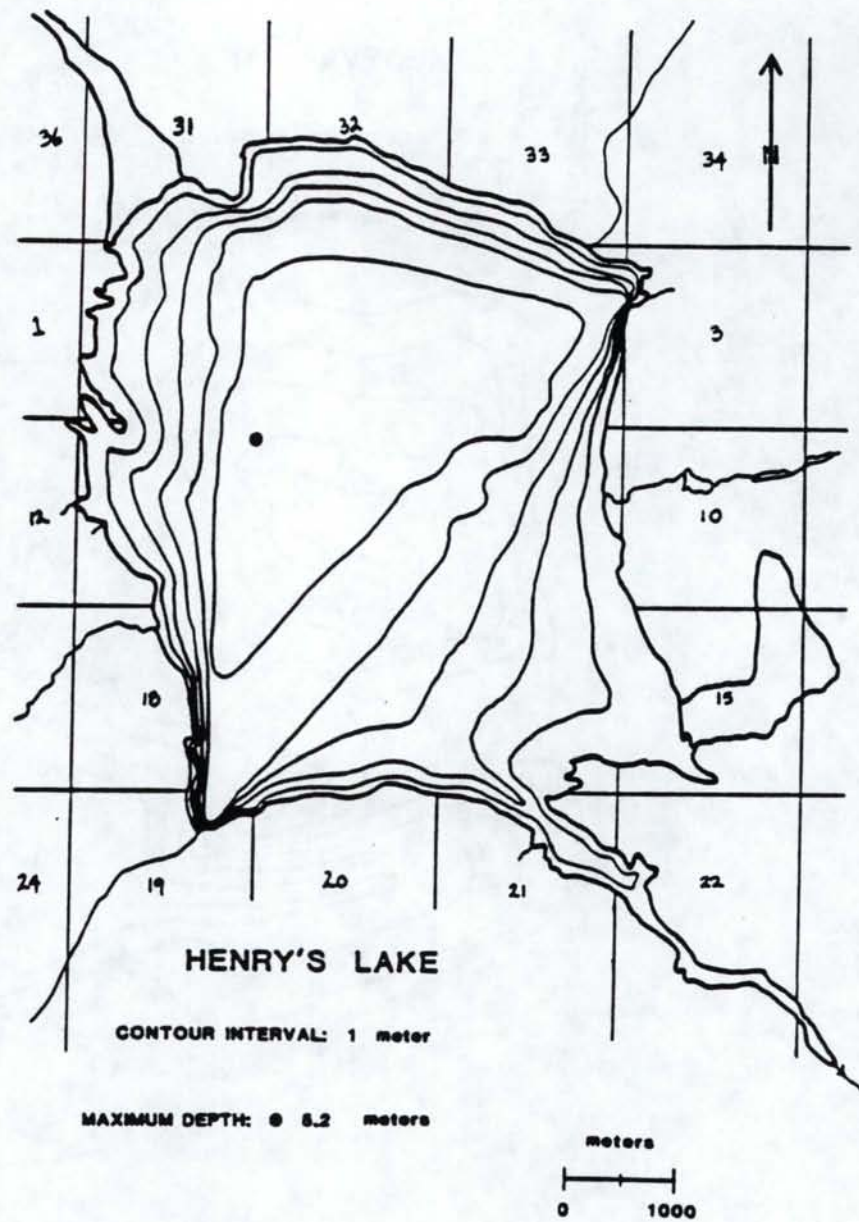


Figure D-1. Lake Morphometry Maps (continued)



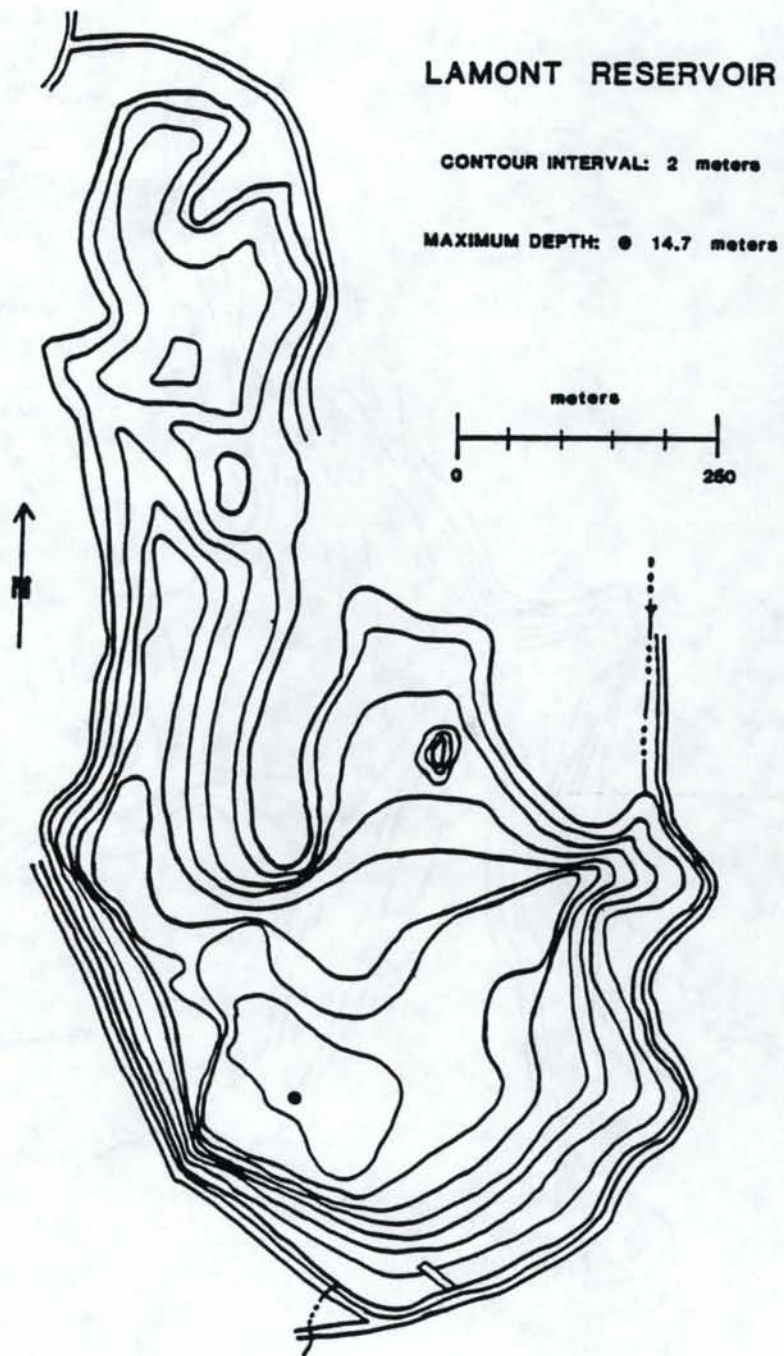


Figure D-1. Lake Morphometry Maps (continued)

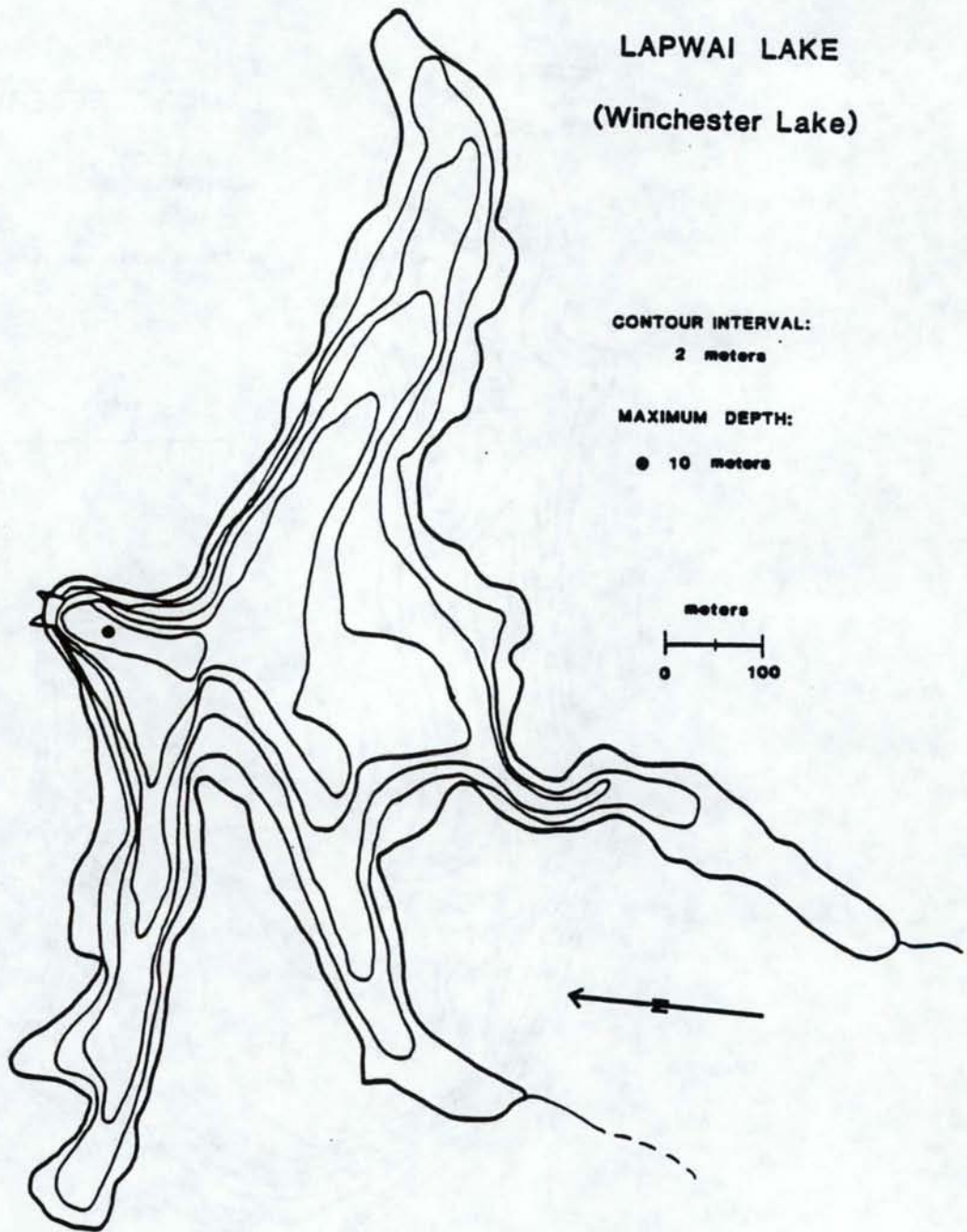


Figure D-1. Lake Morphometry Maps (continued)

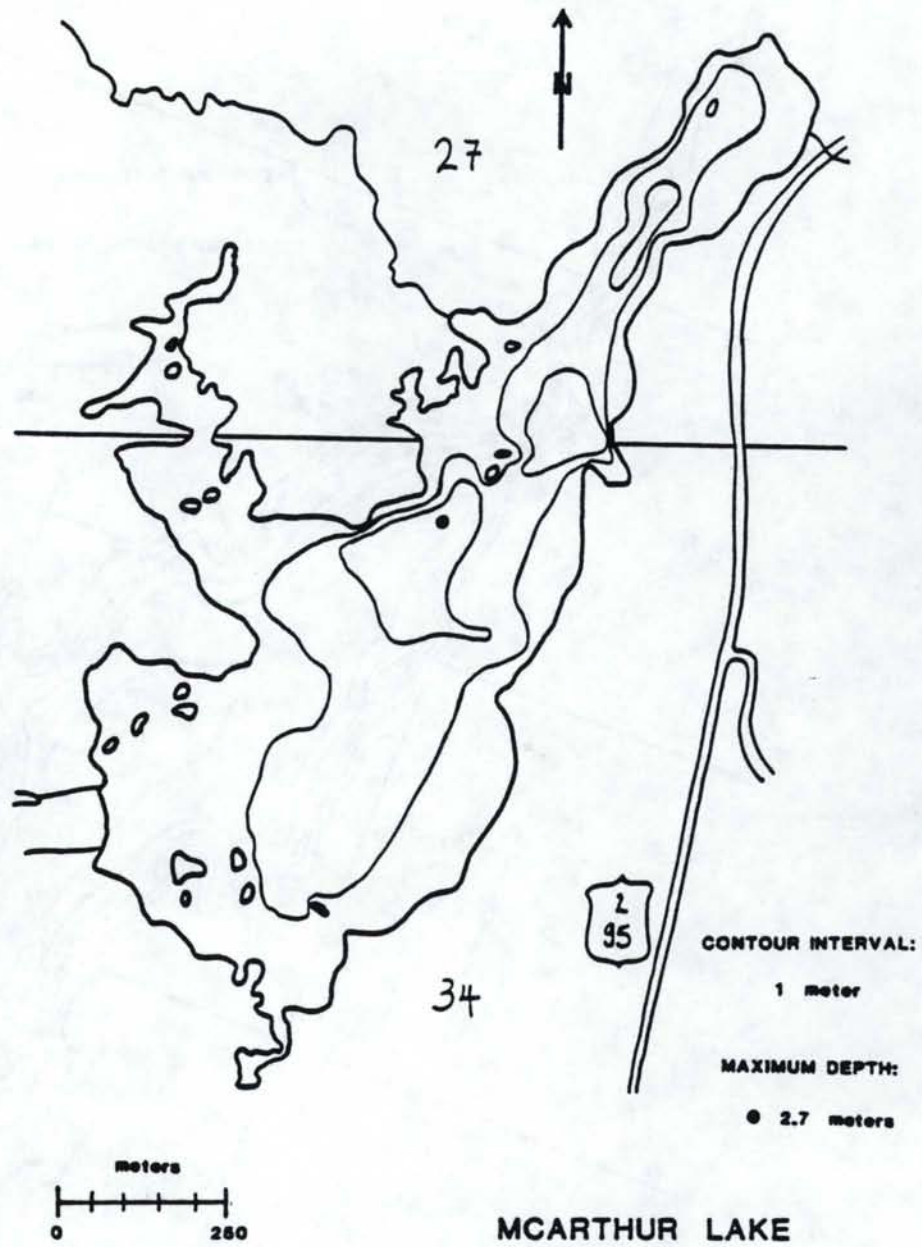


Figure D-1. Lake Morphometry Maps (continued)

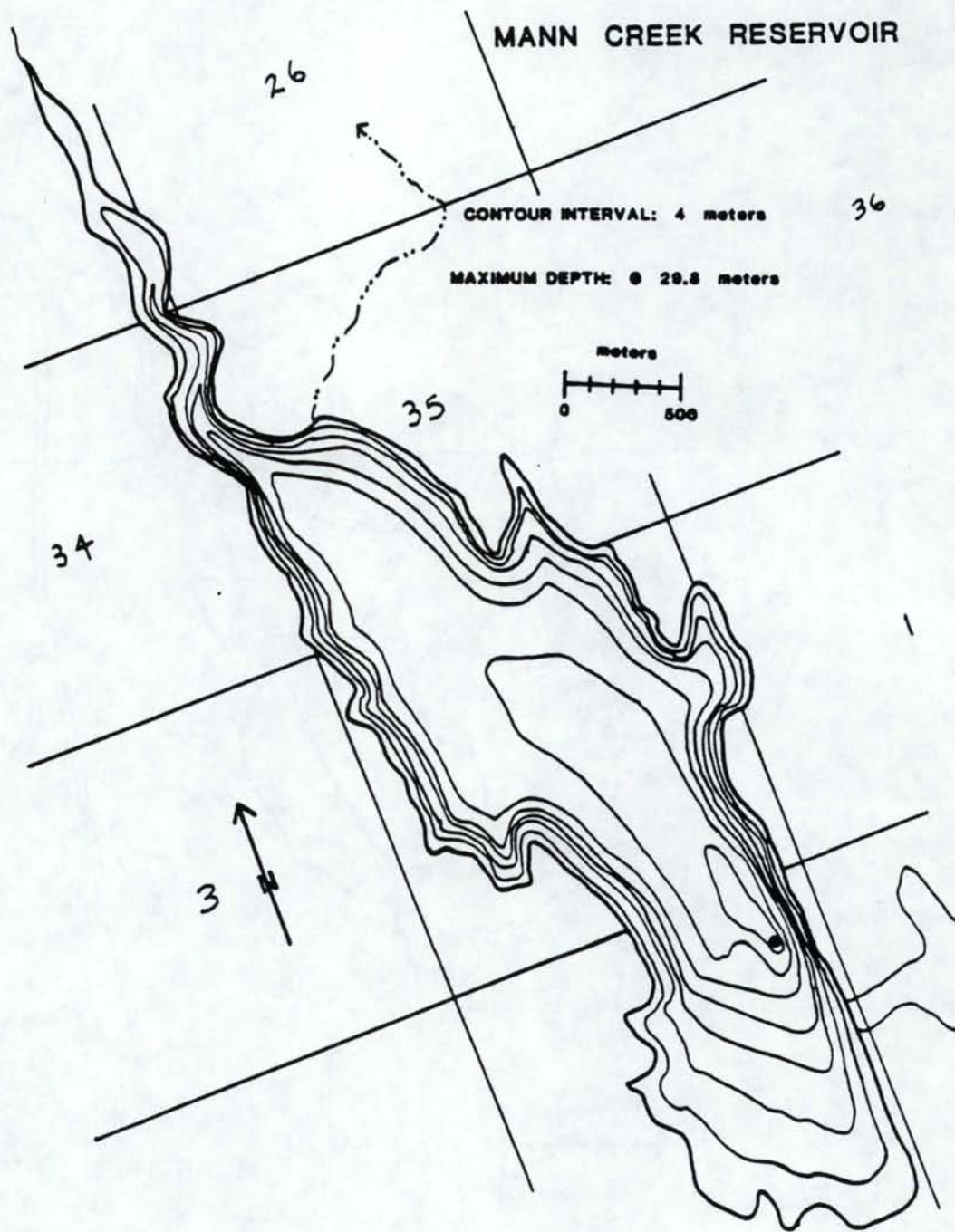


Figure D-1. Lake Morphometry Maps (continued)

**MANN'S LAKE**

**CONTOUR INTERVAL: 3 meters**

**MAXIMUM DEPTH: @ 12.0 meters**

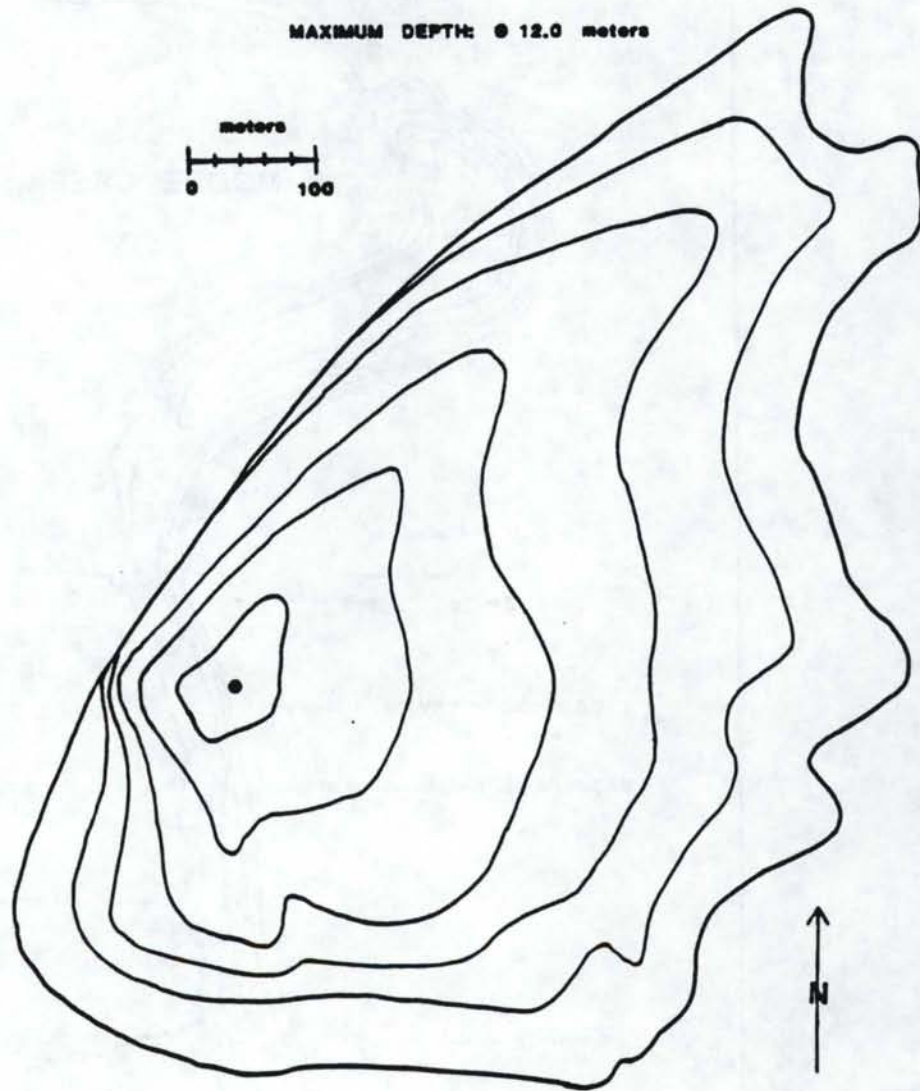


Figure D-1. Lake Morphometry Maps (continued)

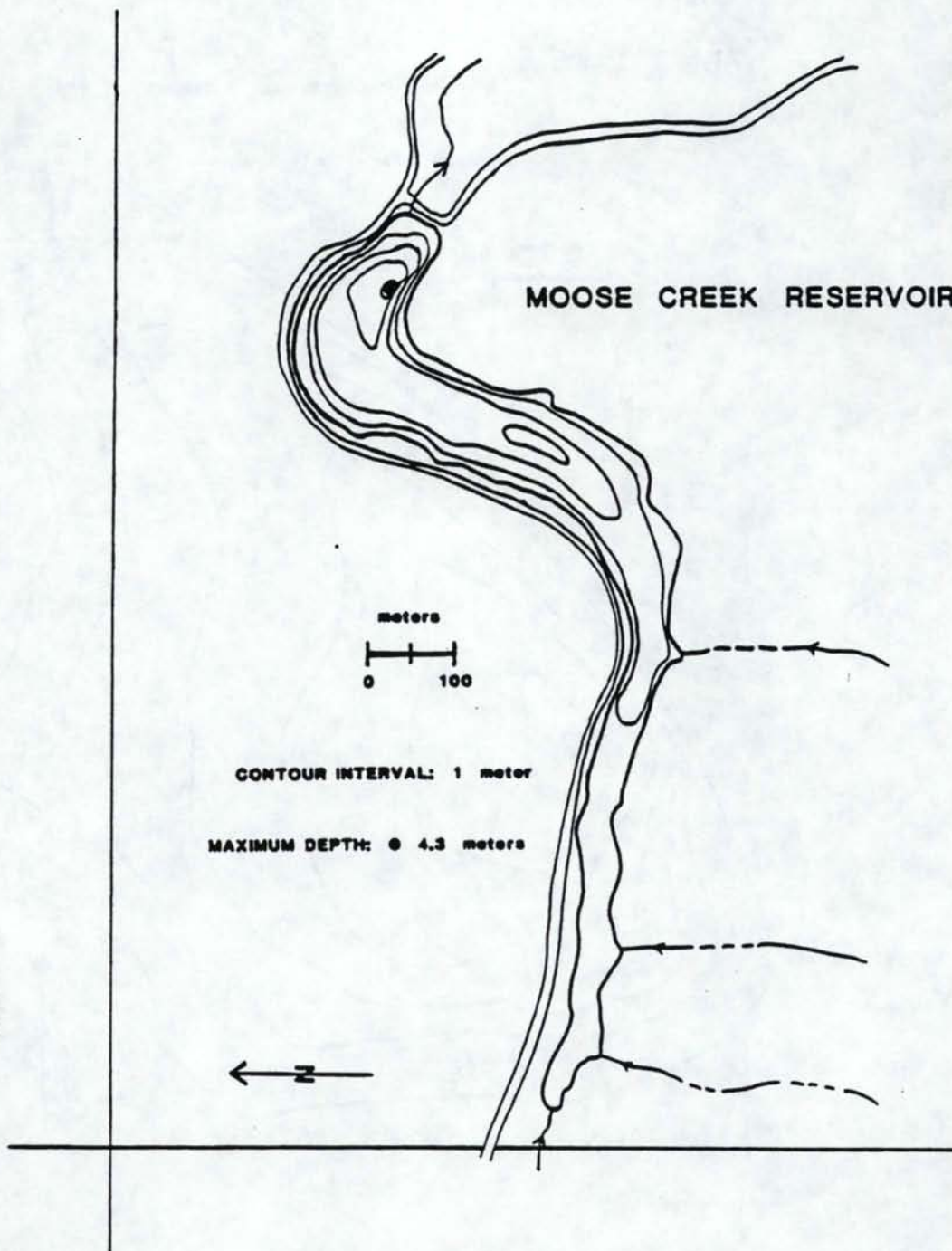


Figure D-1. Lake Morphometry Maps (continued)

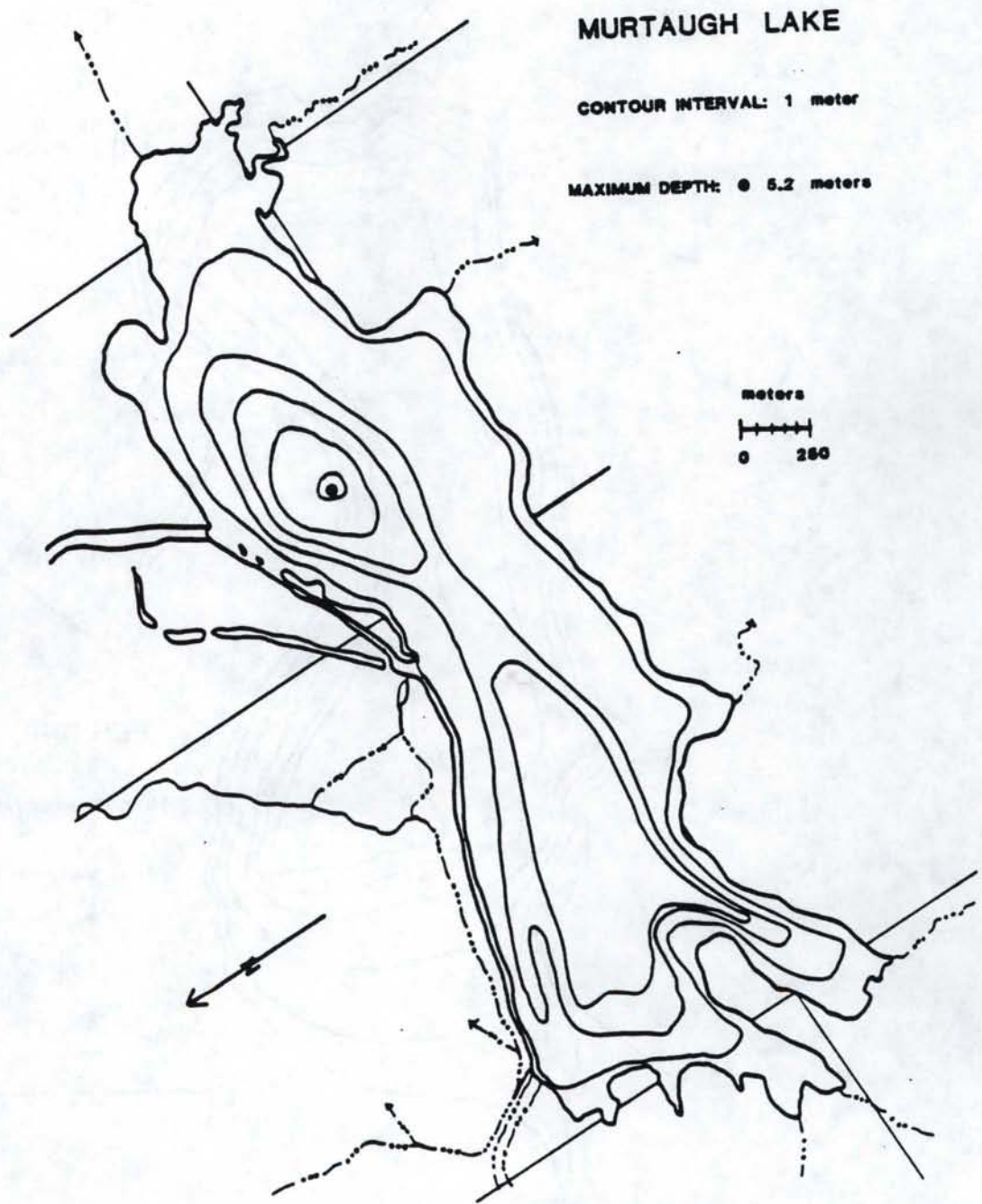


Figure D-1. Lake Morphometry Maps (continued)

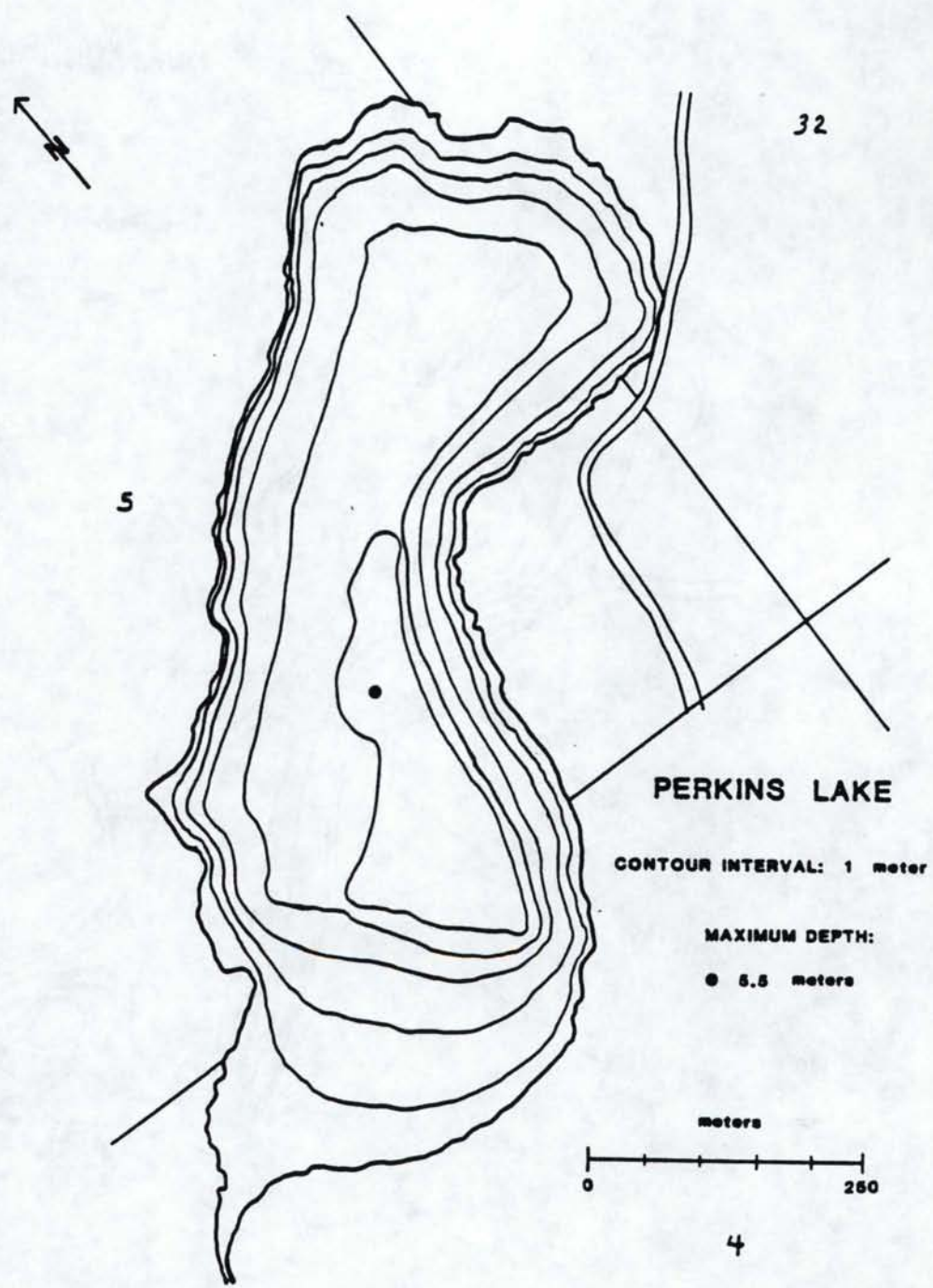


Figure D-1. Lake Morphometry Maps (continued)



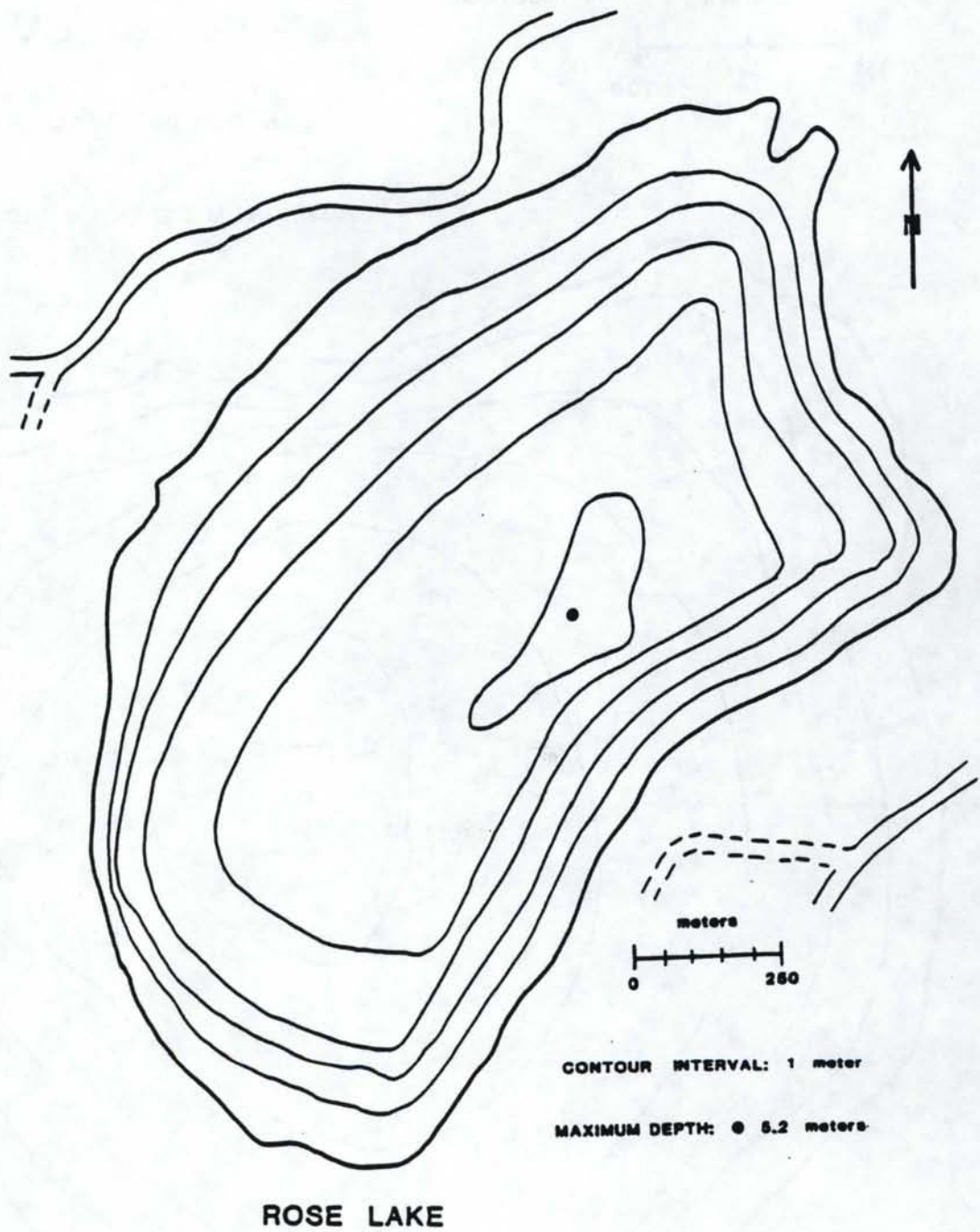
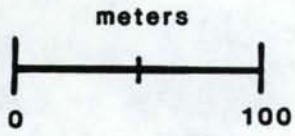


Figure D-1. Lake Morphometry Maps (continued)



# ROUND LAKE

CONTOUR INTERVAL: 2 meters

MAXIMUM DEPTH: ● 10.4 meters

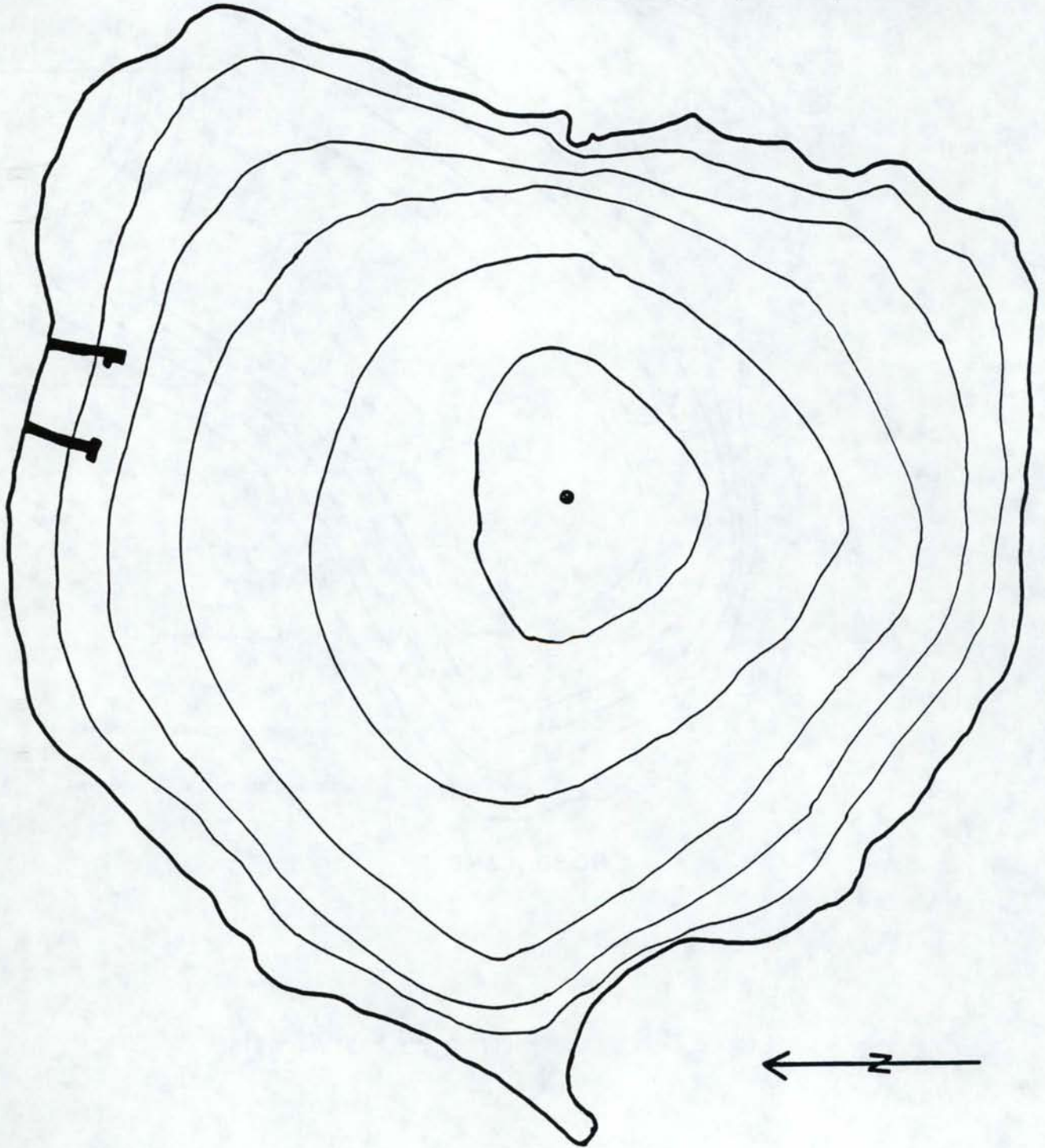
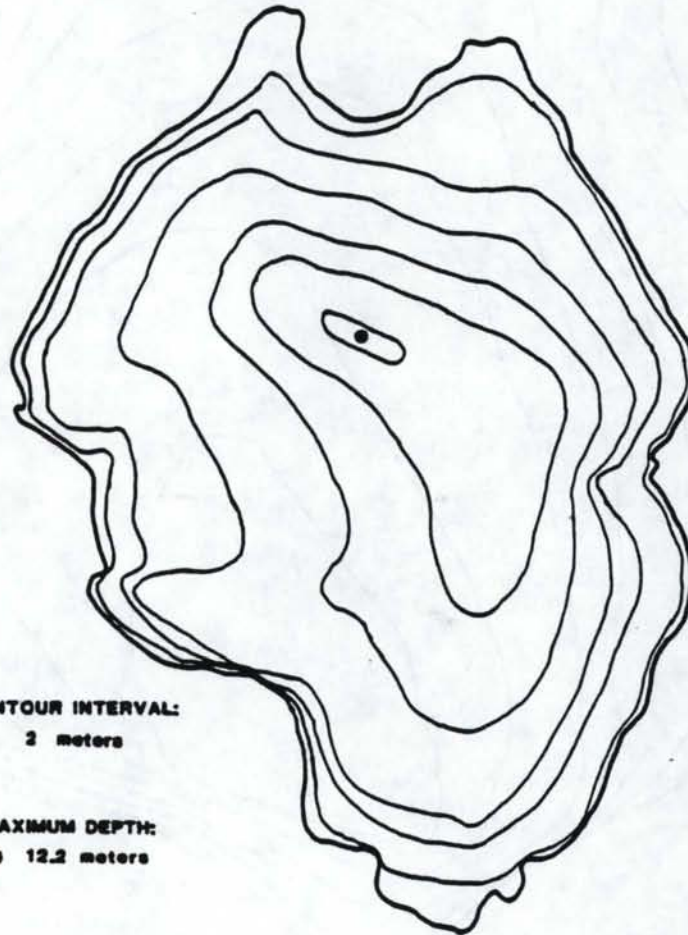


Figure D-1. Lake Morphometry Maps (continued)

**SHELF LAKE**



**CONTOUR INTERVAL:  
2 meters**

**MAXIMUM DEPTH:  
● 12.2 meters**

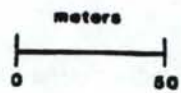
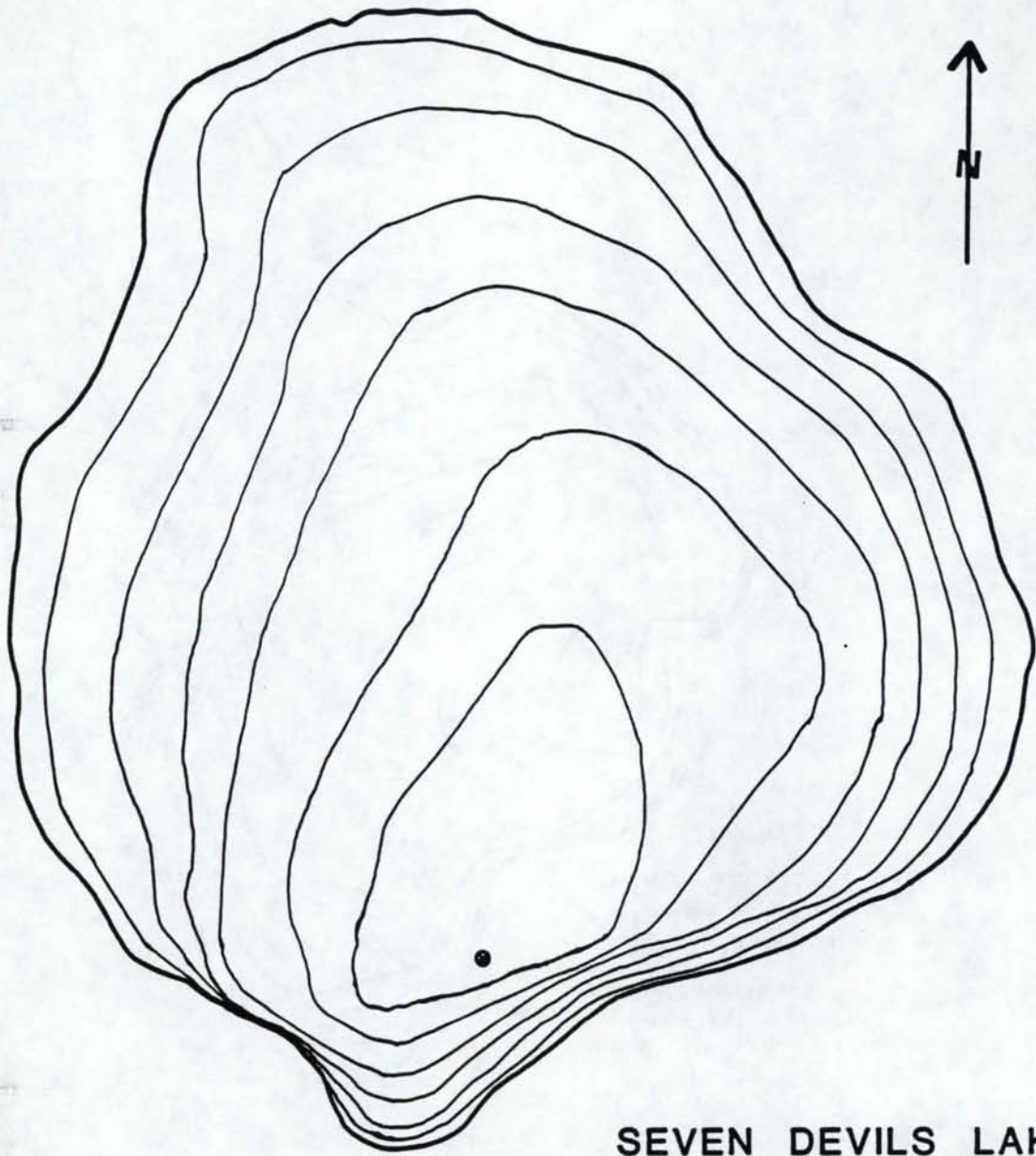


Figure D-1. Lake Morphometry Maps (continued)



**SEVEN DEVILS LAKE**

**CONTOUR INTERVAL: 1 meter**

**MAXIMUM DEPTH: @ 6.4 meters**

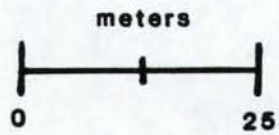


Figure D-1. Lake Morphometry Maps (continued)

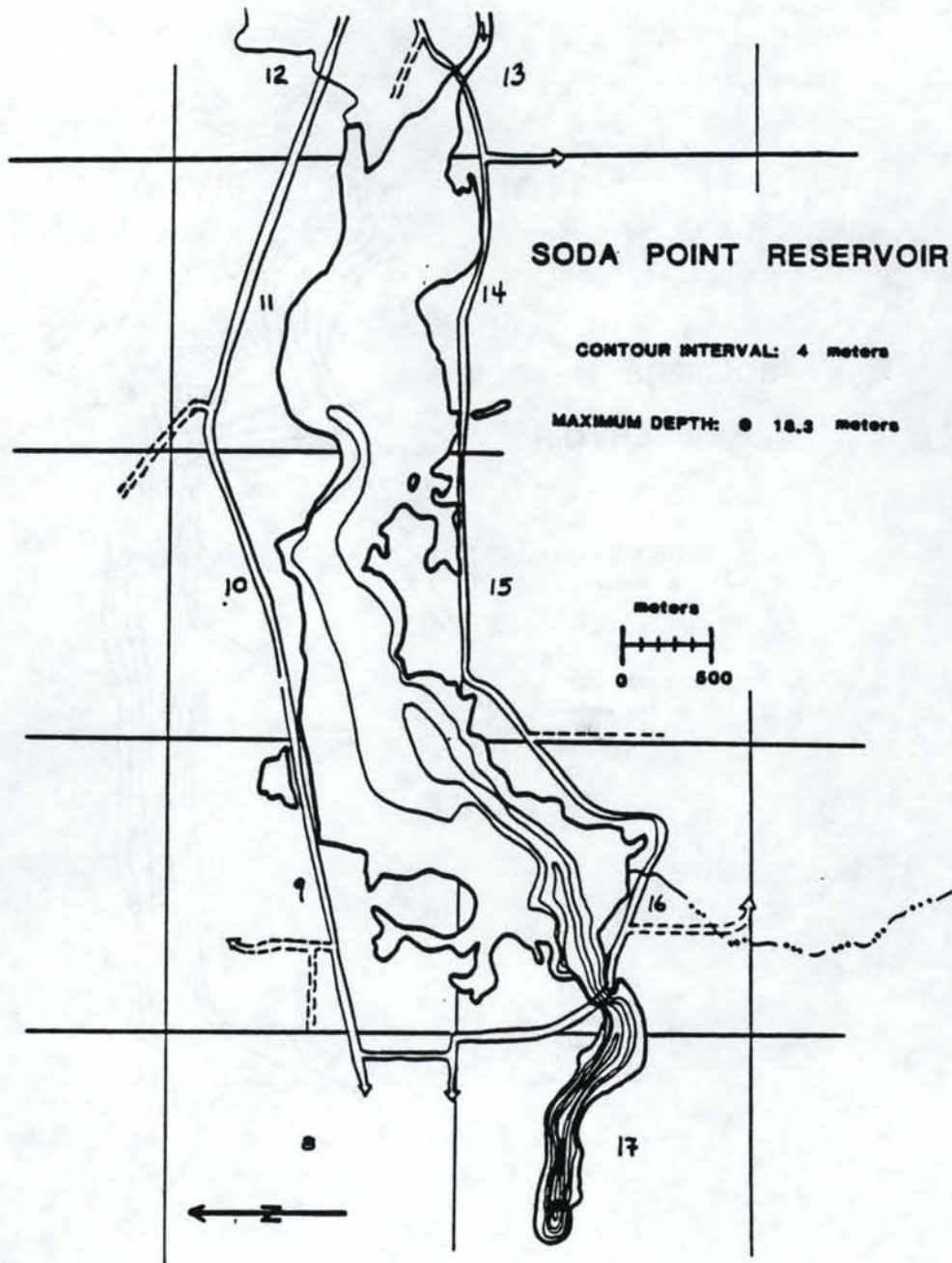


Figure D-1. Lake Morphometry Maps (continued)

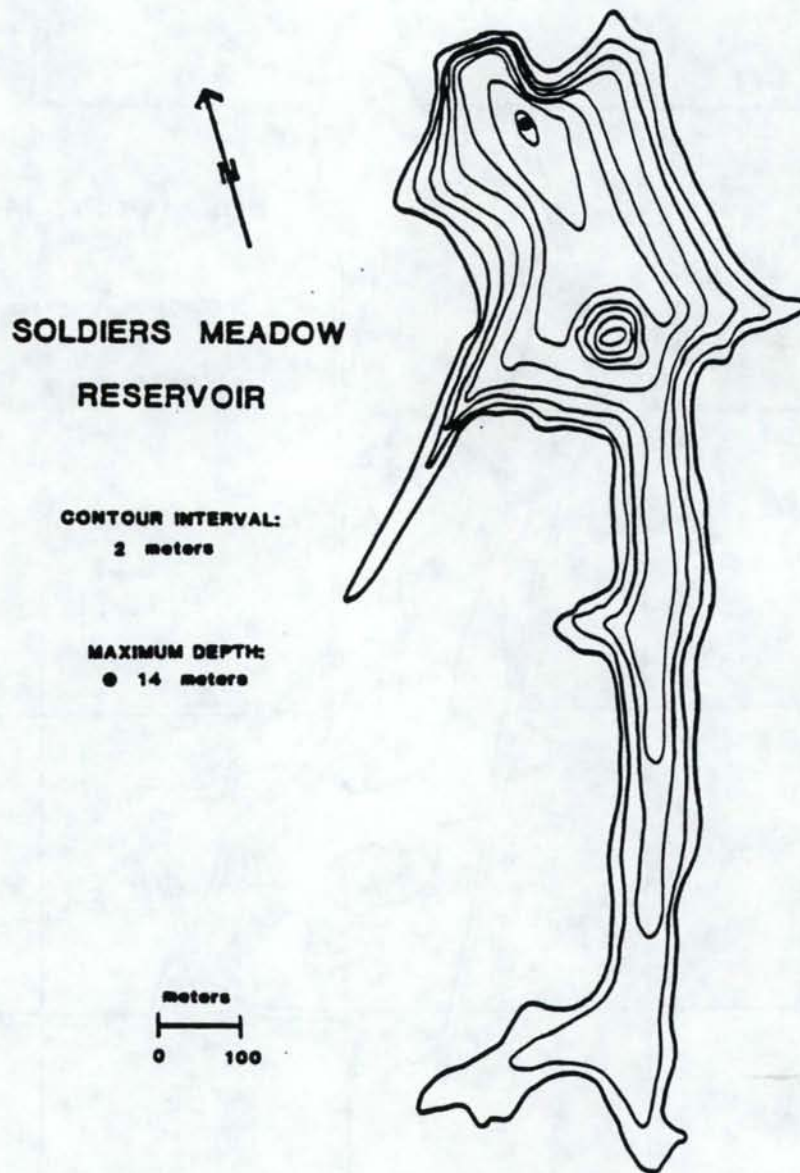


Figure D-1. Lake Morphometry Maps (continued)

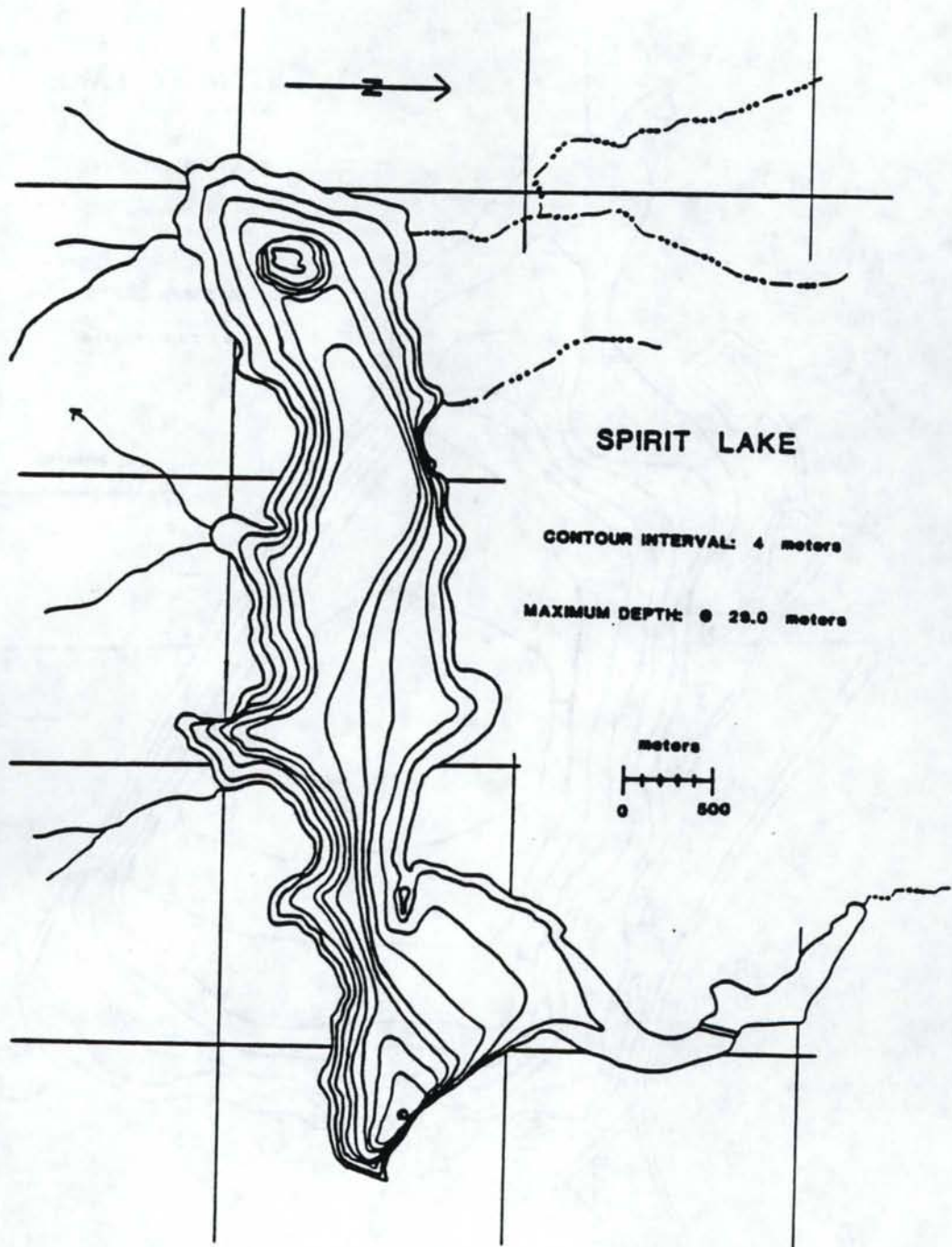


Figure D-1. Lake Morphometry Maps (continued)

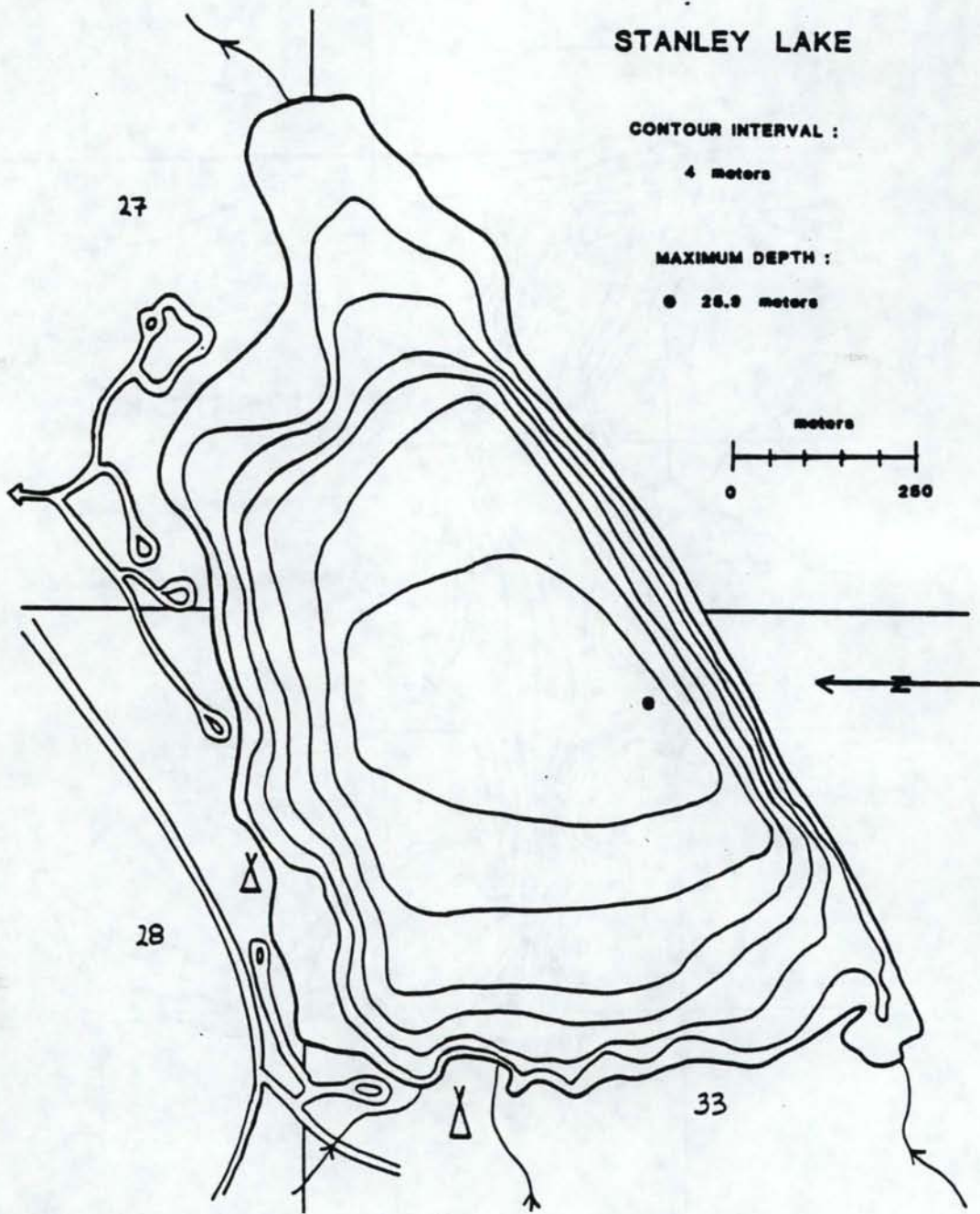


Figure D-1. Lake Morphometry Maps (continued)



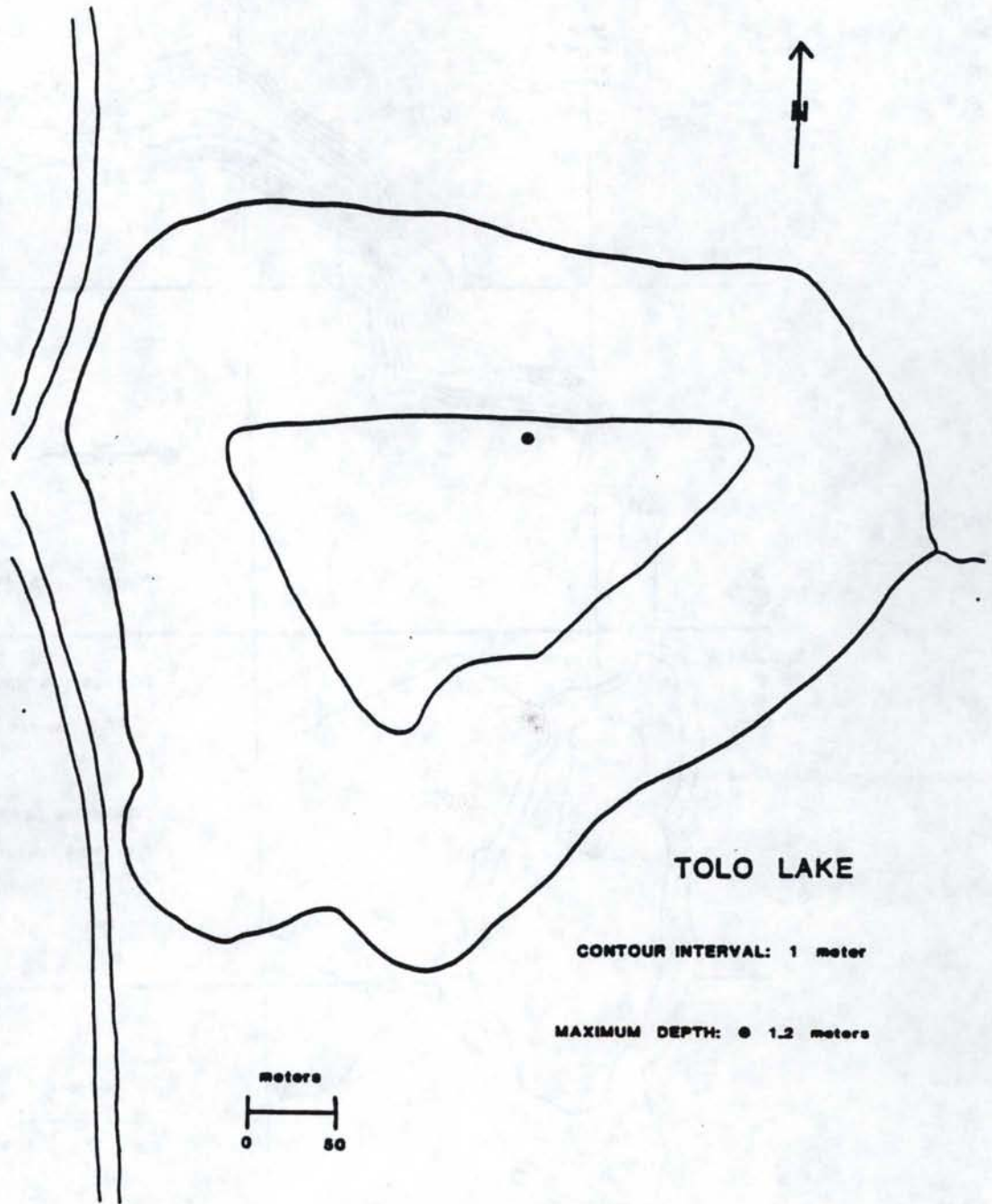


Figure D-1. Lake Morphometry Maps (continued)

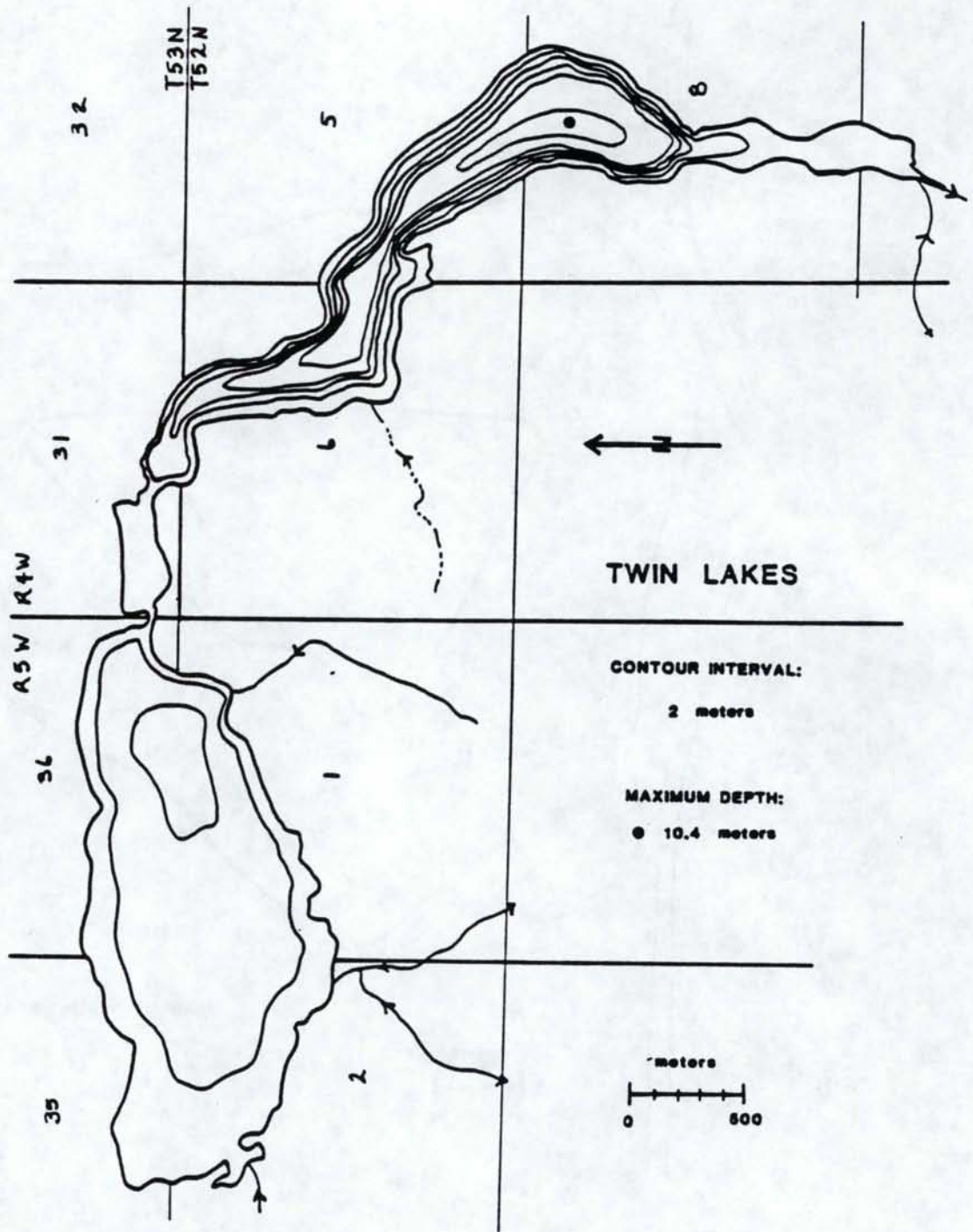


Figure D-1. Lake Morphometry Maps (continued)

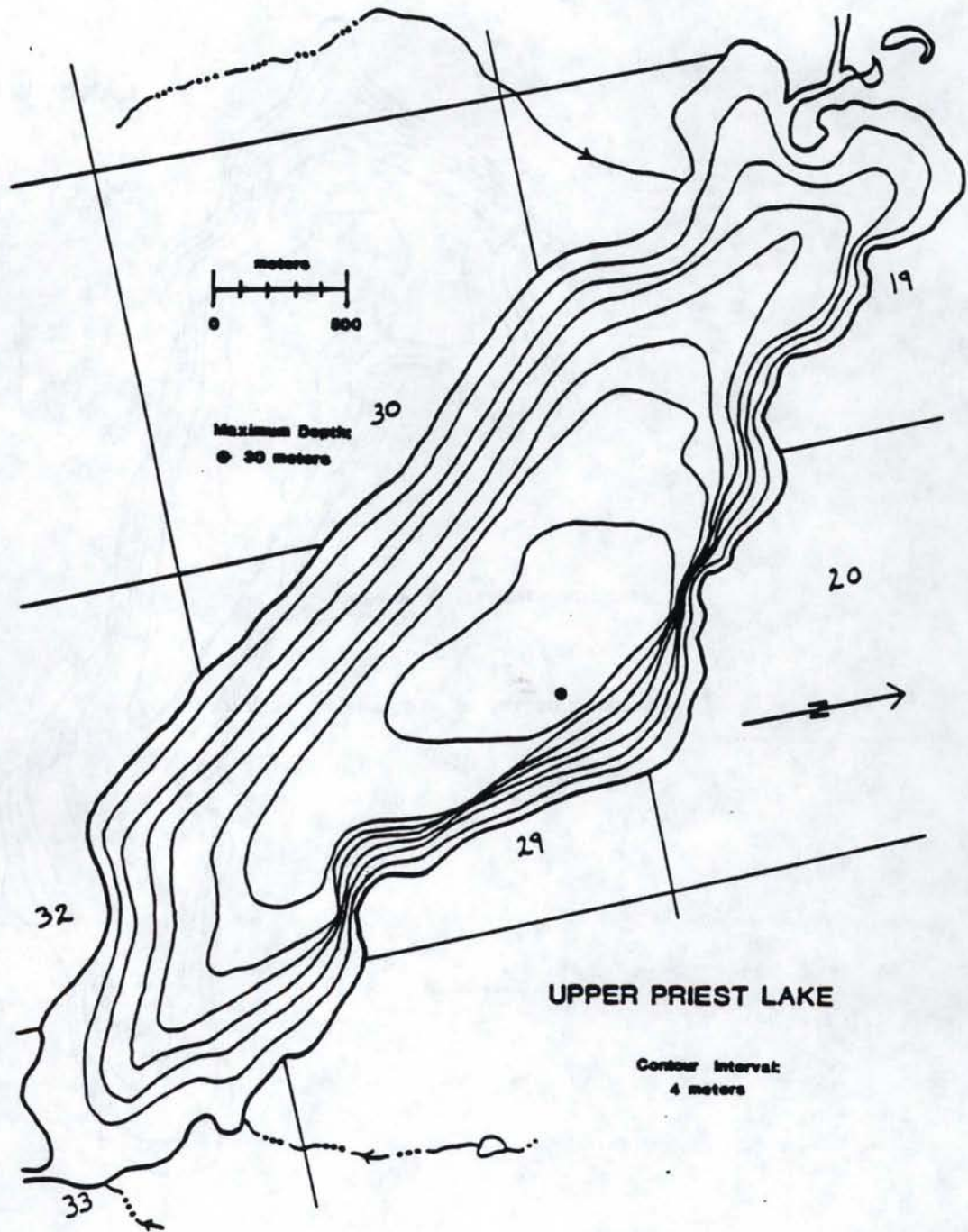


Figure D-1. Lake Morphometry Maps (continued)

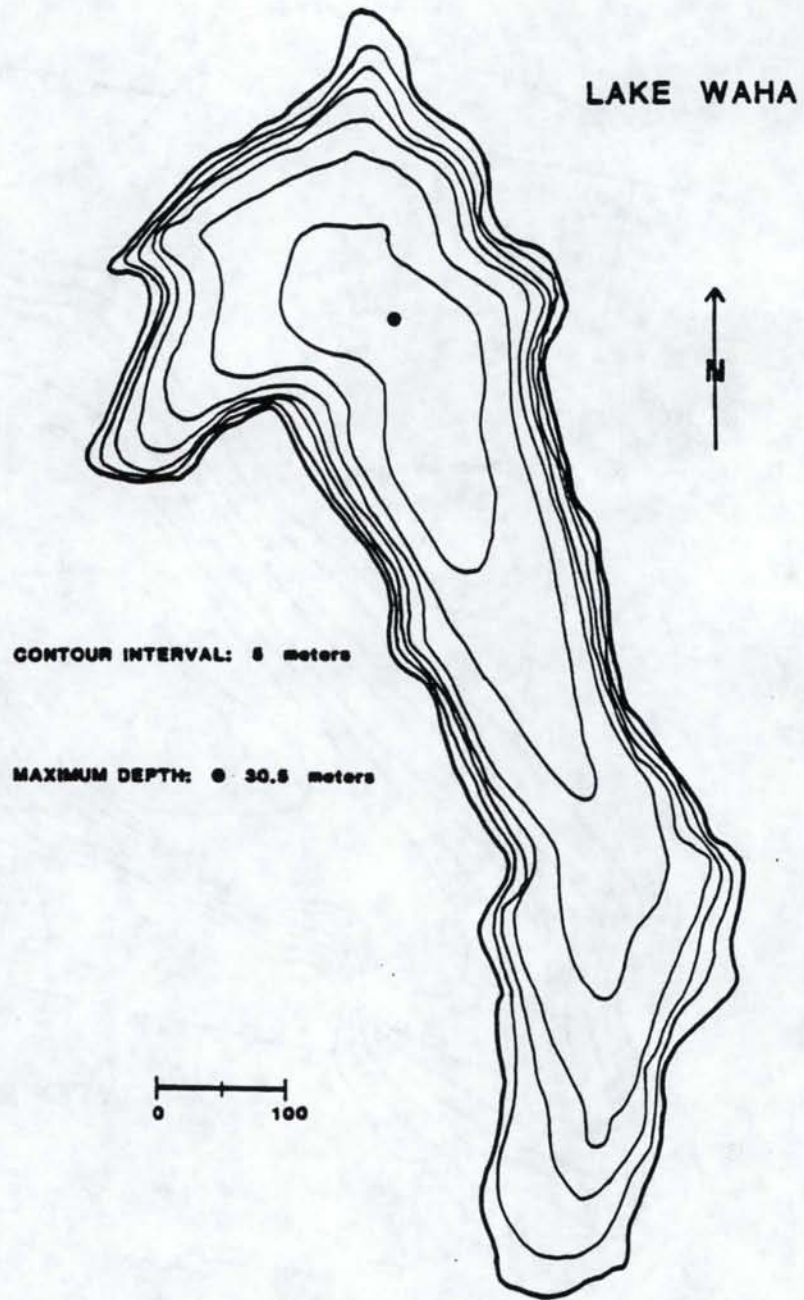
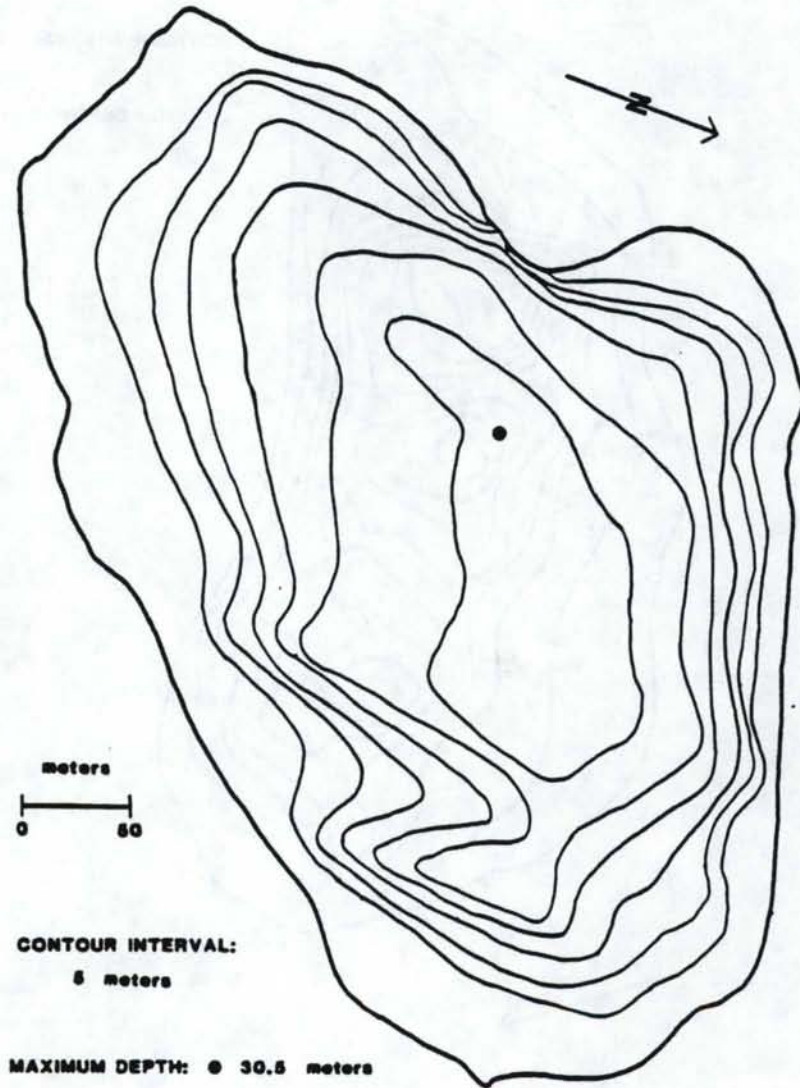


Figure D-1. Lake Morphometry Maps (continued)



**LOWER WALTON LAKE**

Figure D-1. Lake Morphometry Maps (continued)

**UPPER WALTON LAKE**

**CONTOUR INTERVAL: 2 meters**

**MAXIMUM DEPTH: ● 16.8 meters**

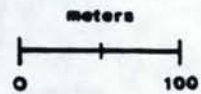
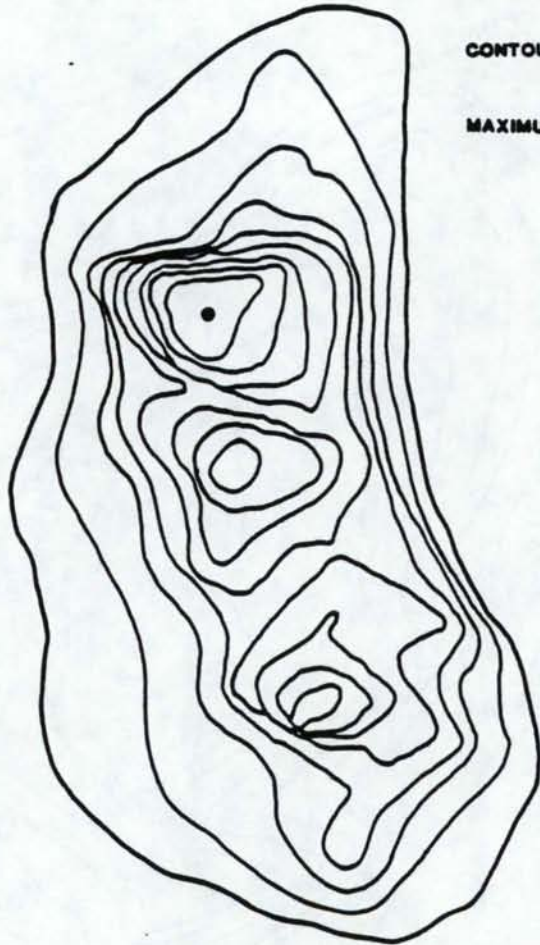


Figure D-1. Lake Morphometry Maps (continued)

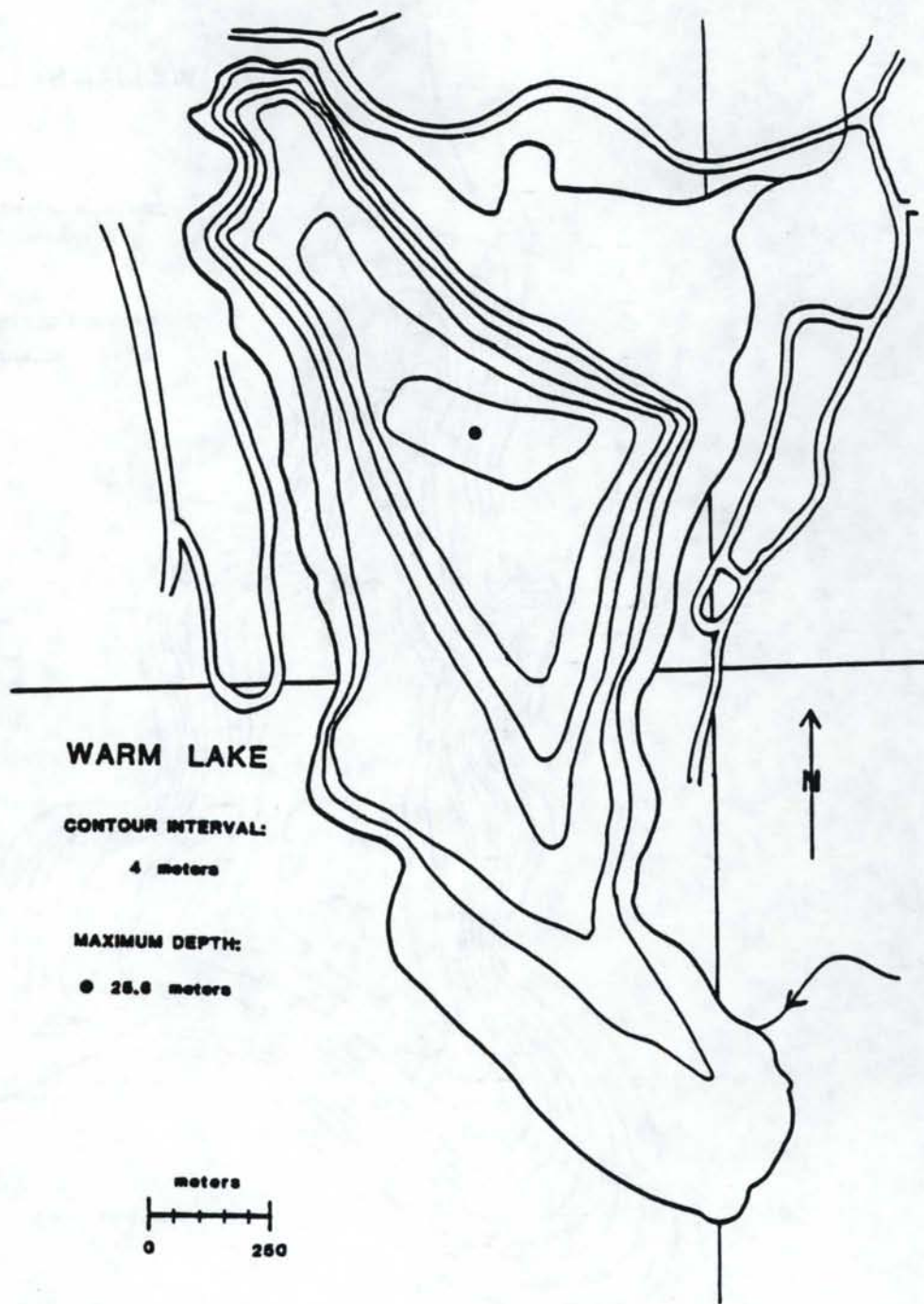


Figure D-1. Lake Morphometry Maps (continued)

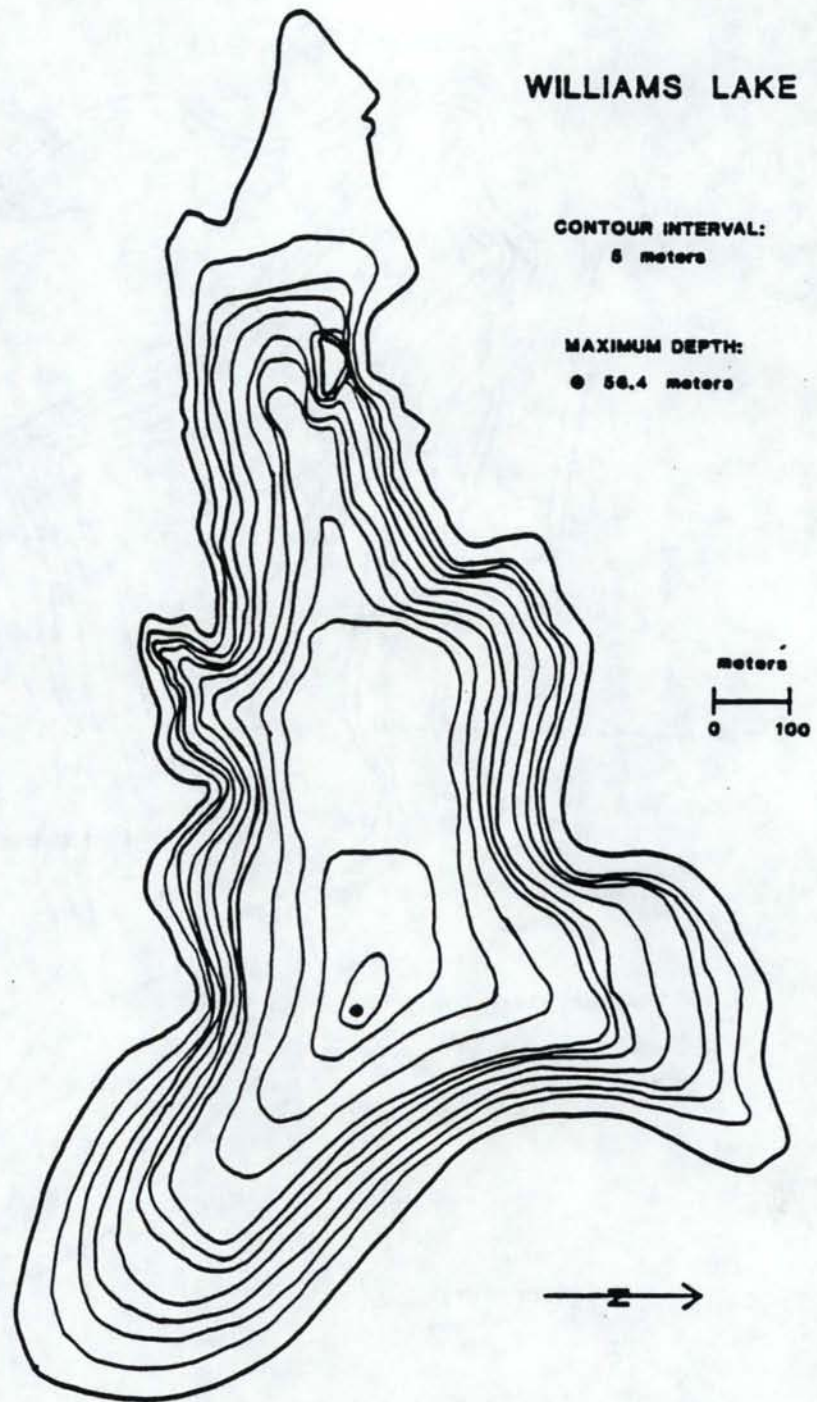


Figure D-1. Lake Morphometry Maps (continued)



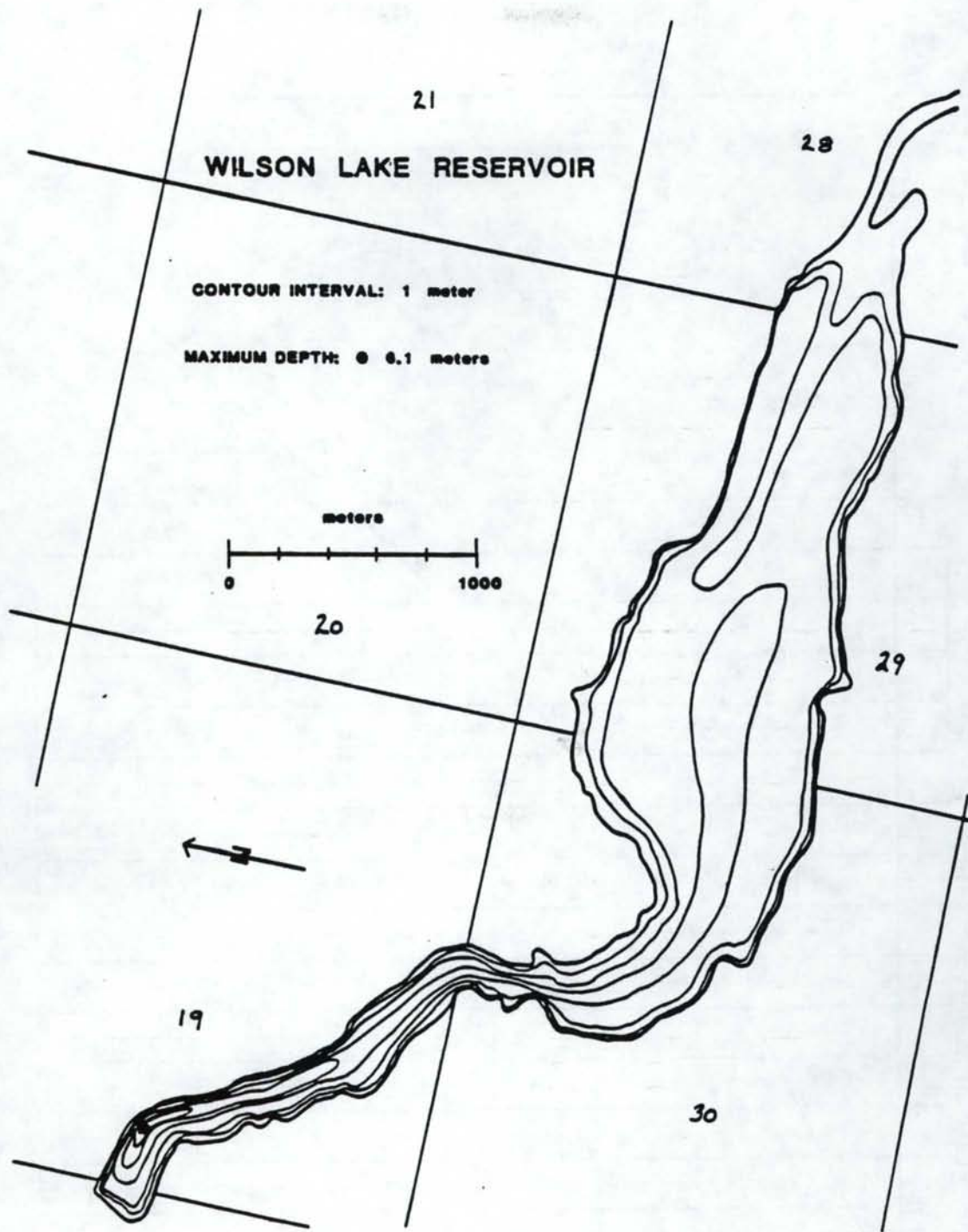
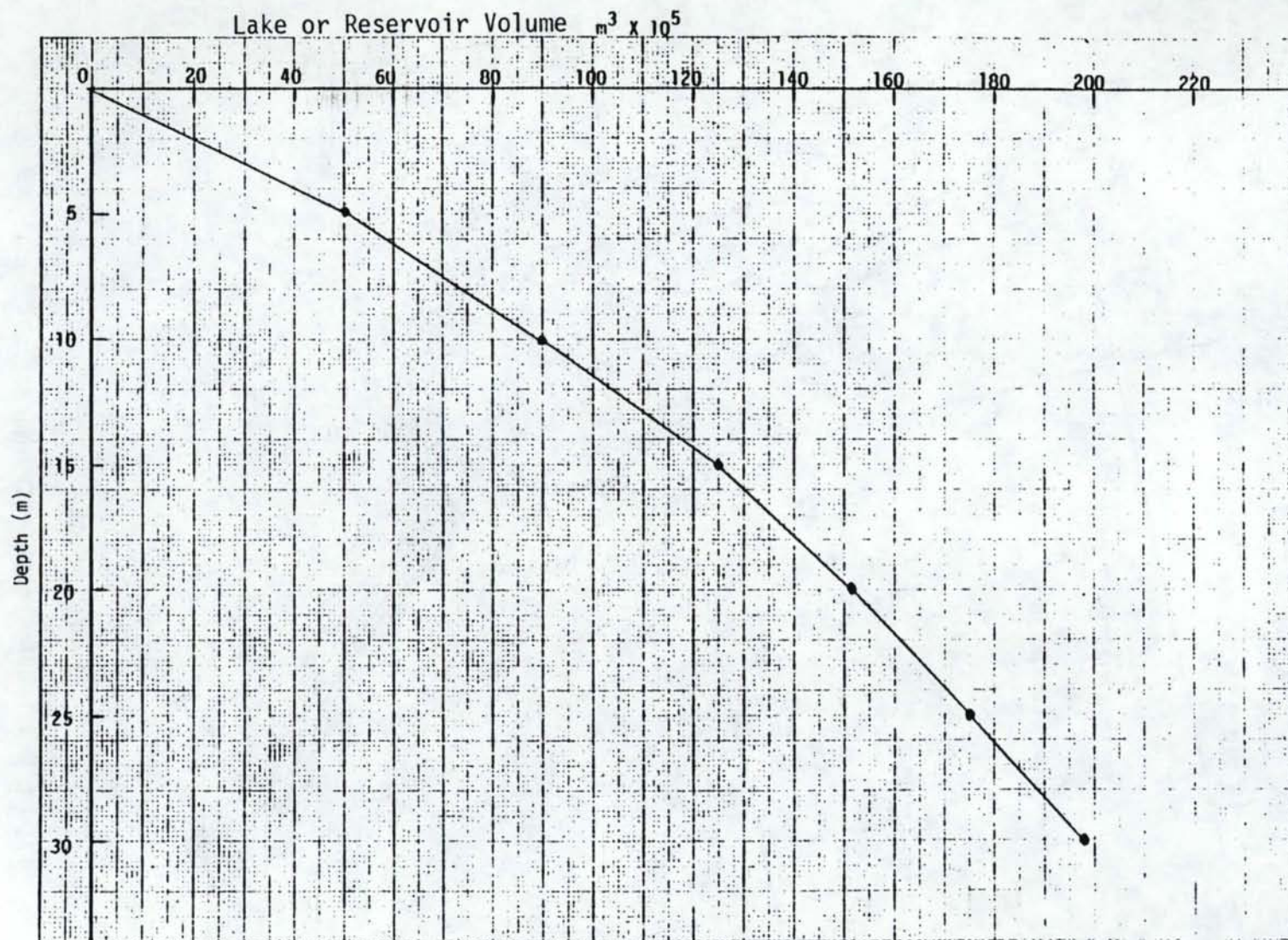


Figure D-1. Lake Morphometry Maps (continued)

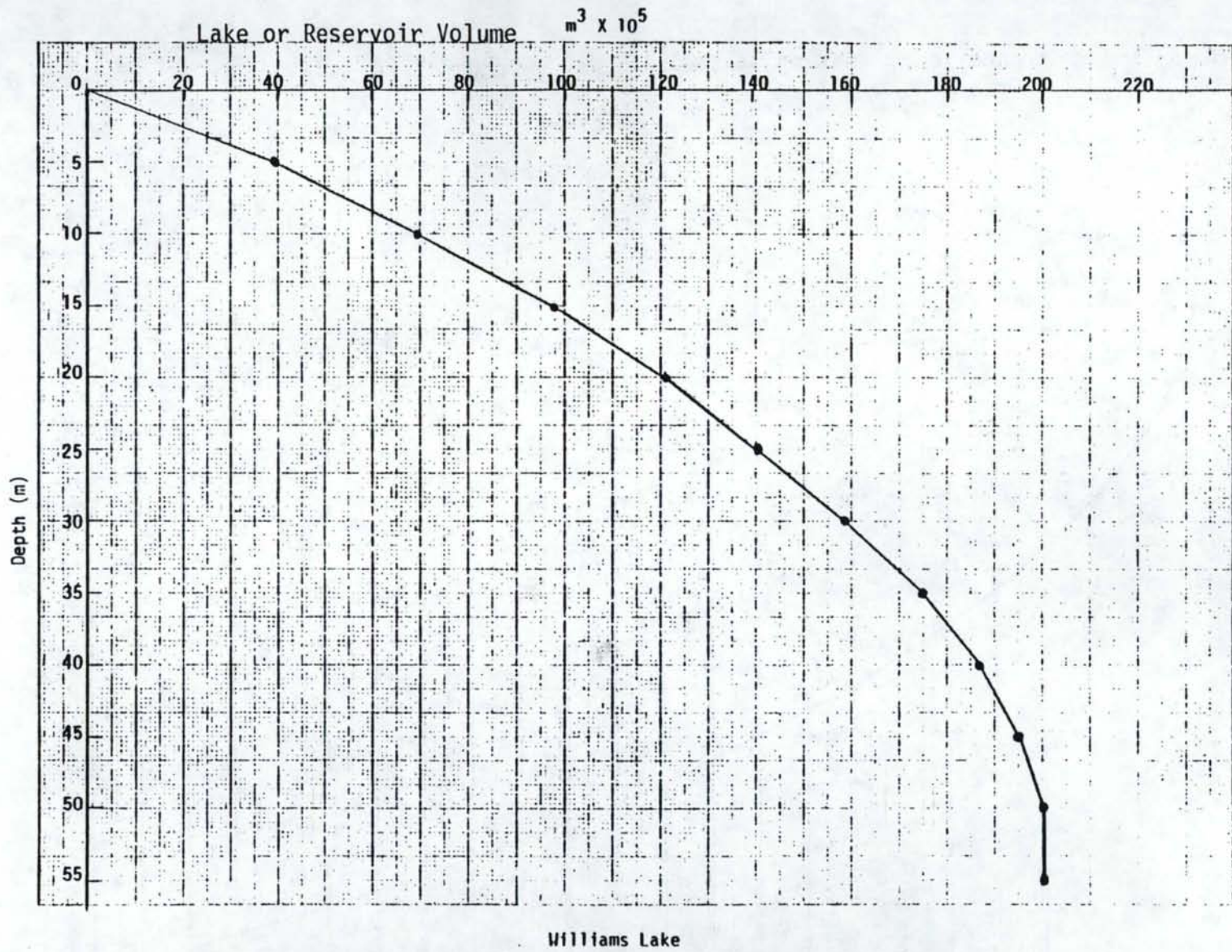
D-76



Lower Walton Lake

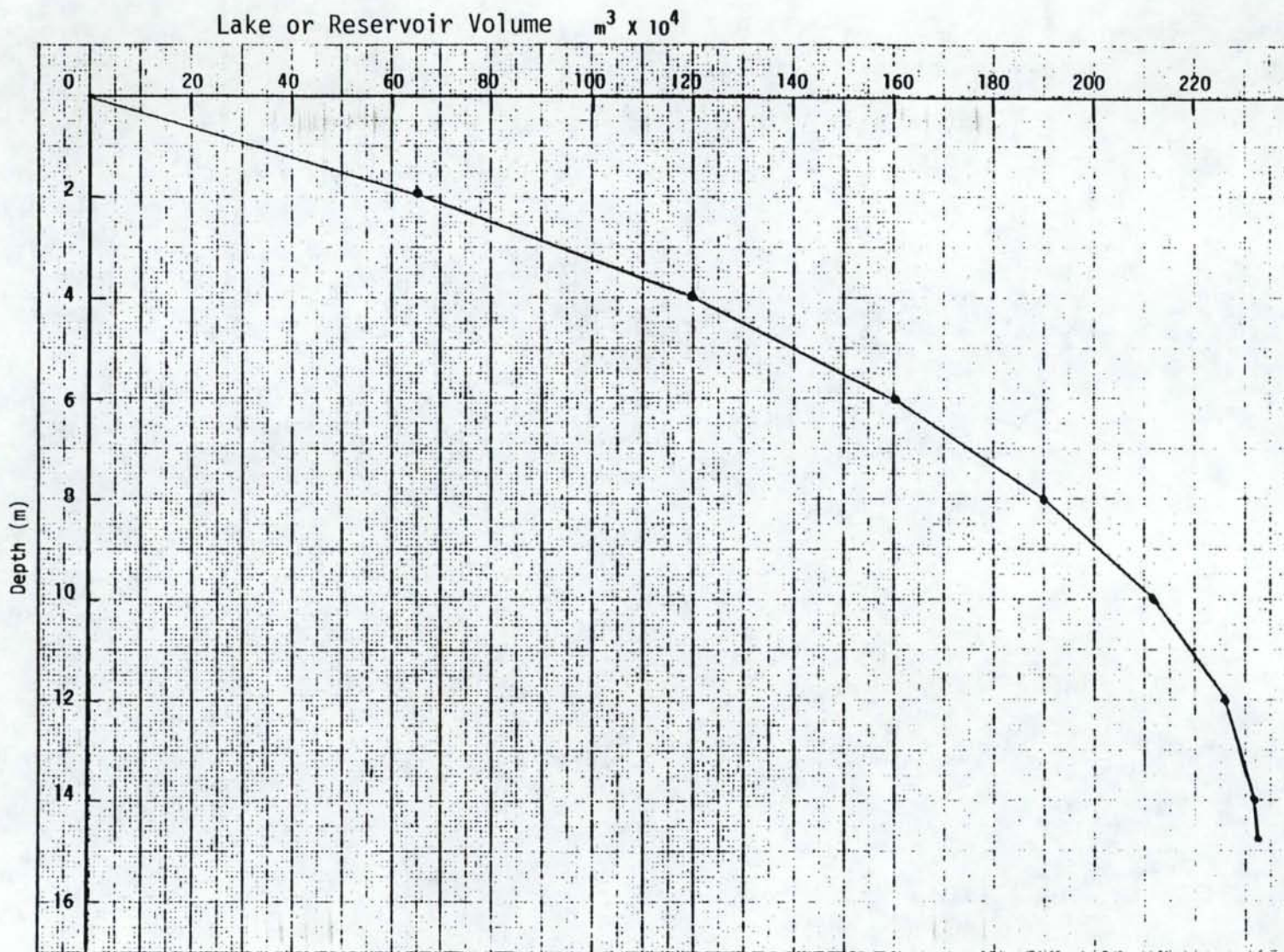
Figure D-2. Lake Hypsometric Curves

D-77



Williams Lake  
Figure D-2. Lake Hypsometric Curves (continued)

D-78



Lamont Reservoir

Figure D-2. Lake Hypsometric Curves (continued)

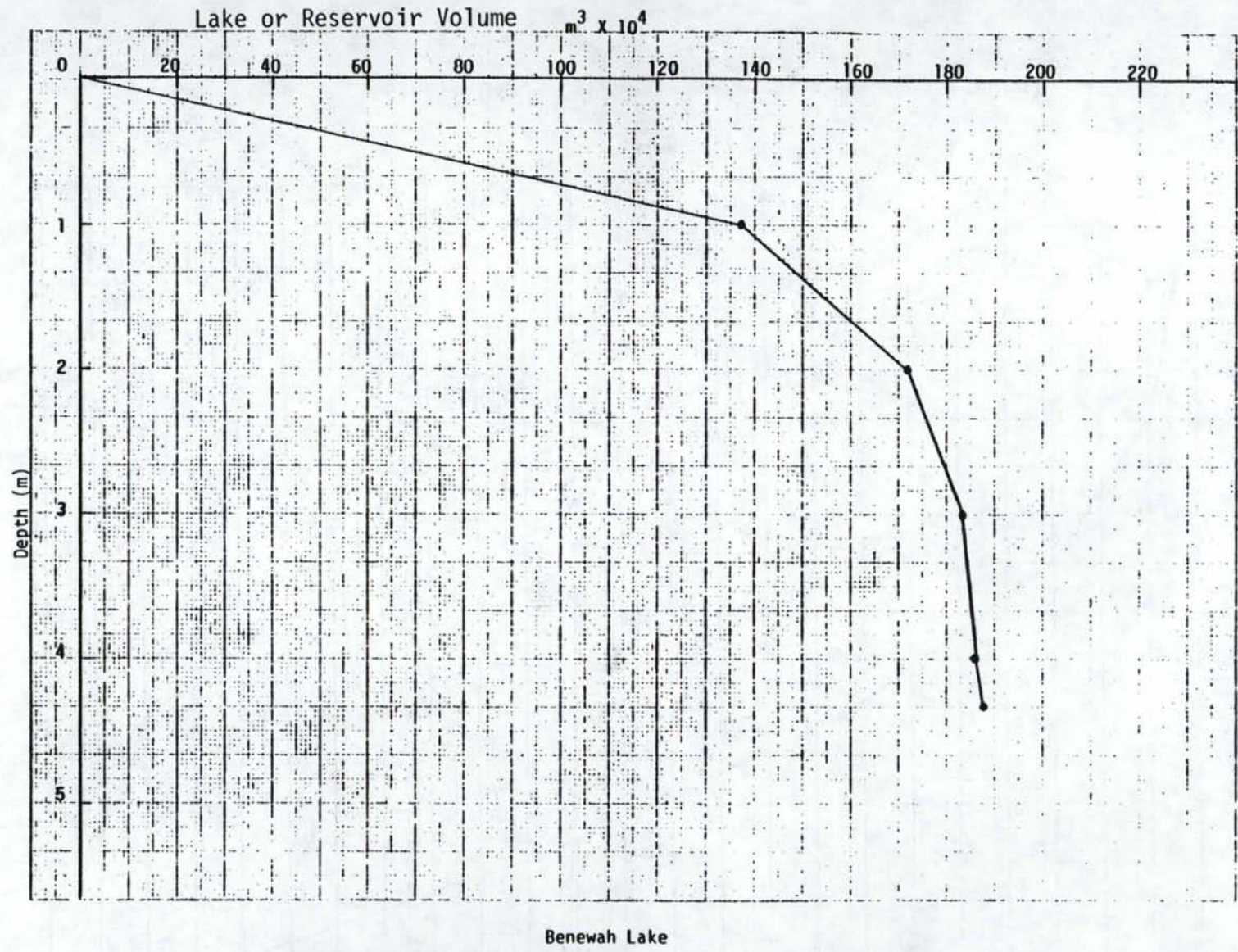
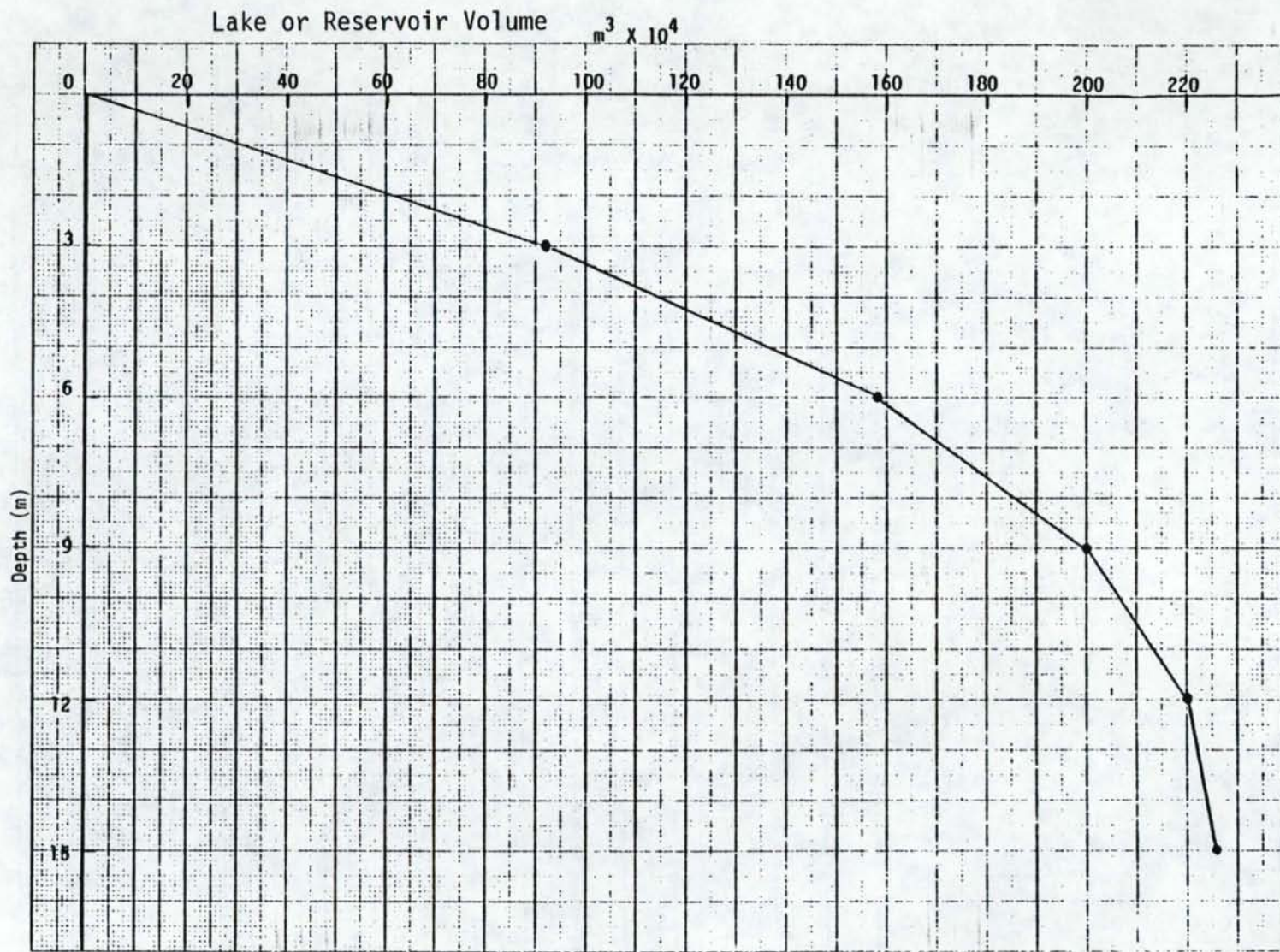


Figure D-2. Lake Hypsometric Curves (continued)

D-80



Mann's Lake

Figure D-2. Lake Hypsometric Curves (continued)

D-81

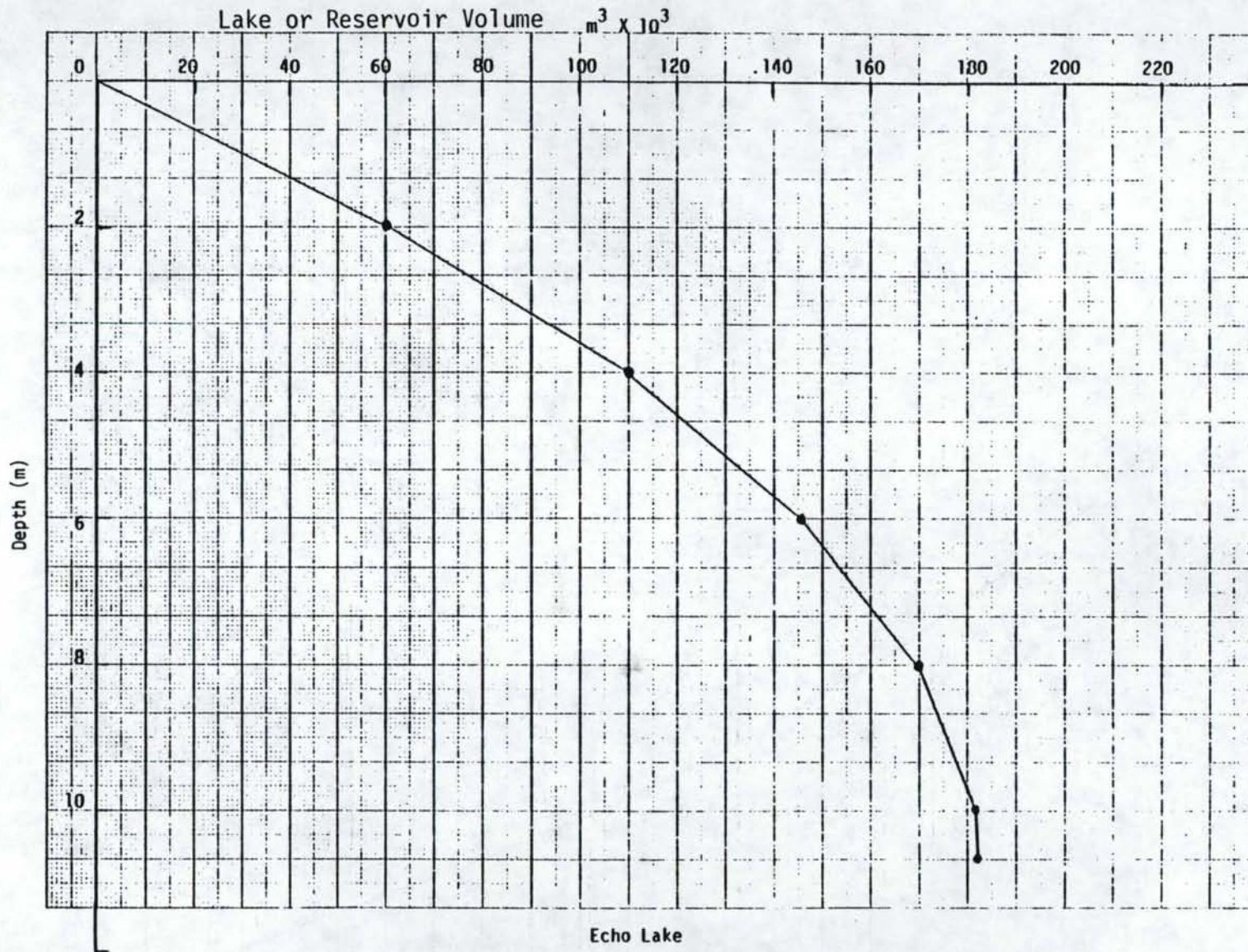


Figure D-2. Lake Hypsometric Curves (continued)

D-82

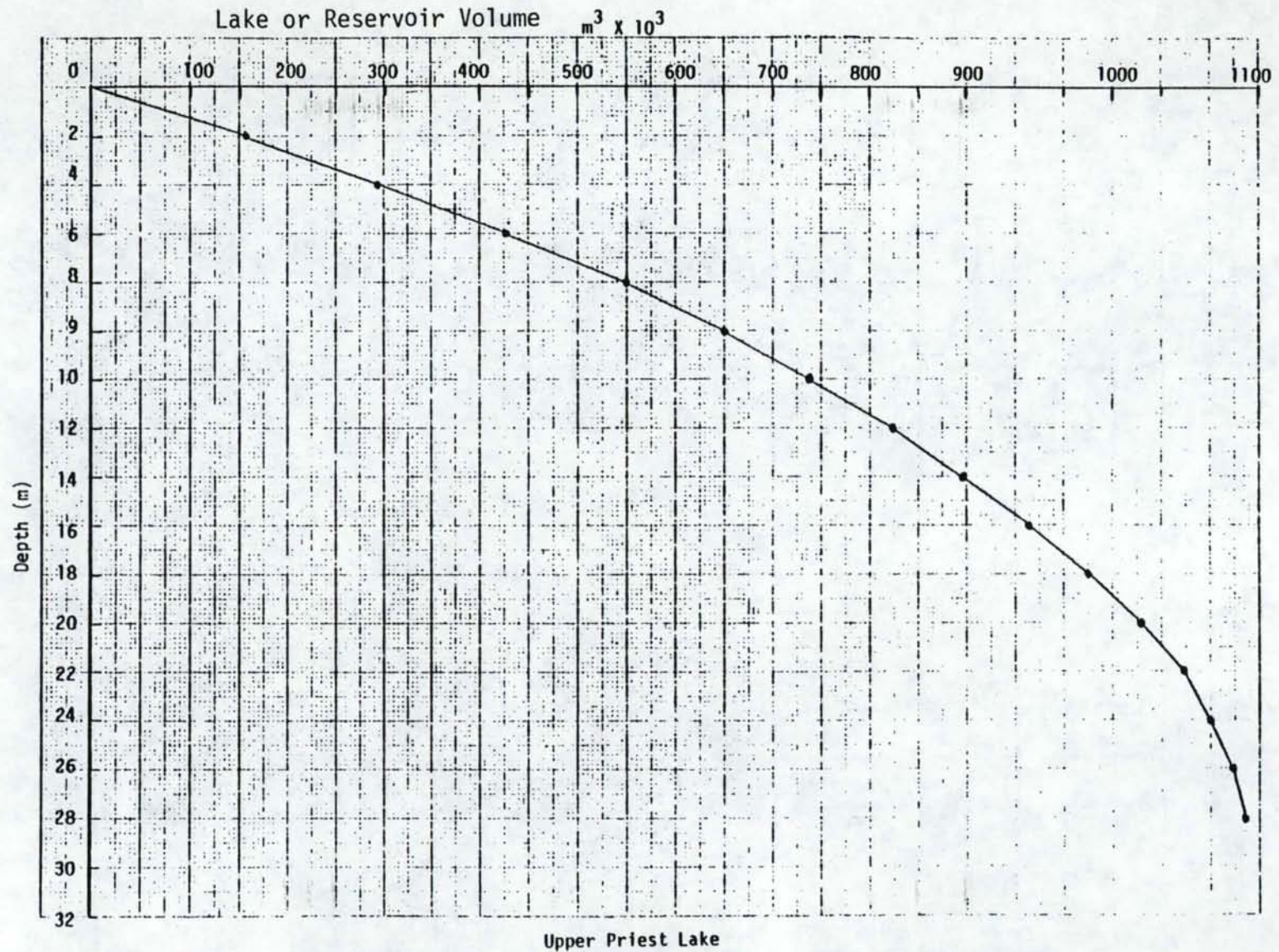
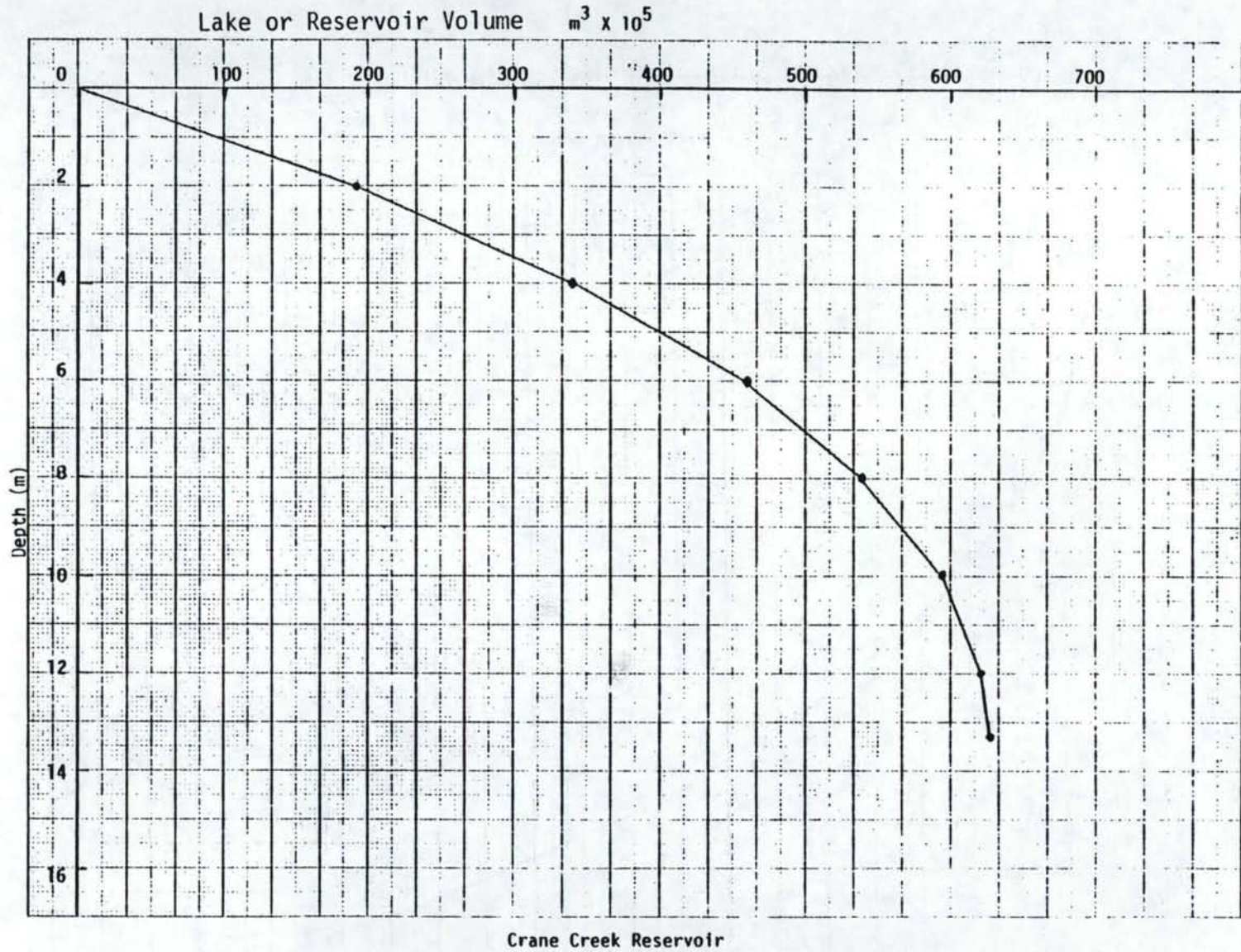


Figure D-2. Lake Hypsometric Curves (continued)

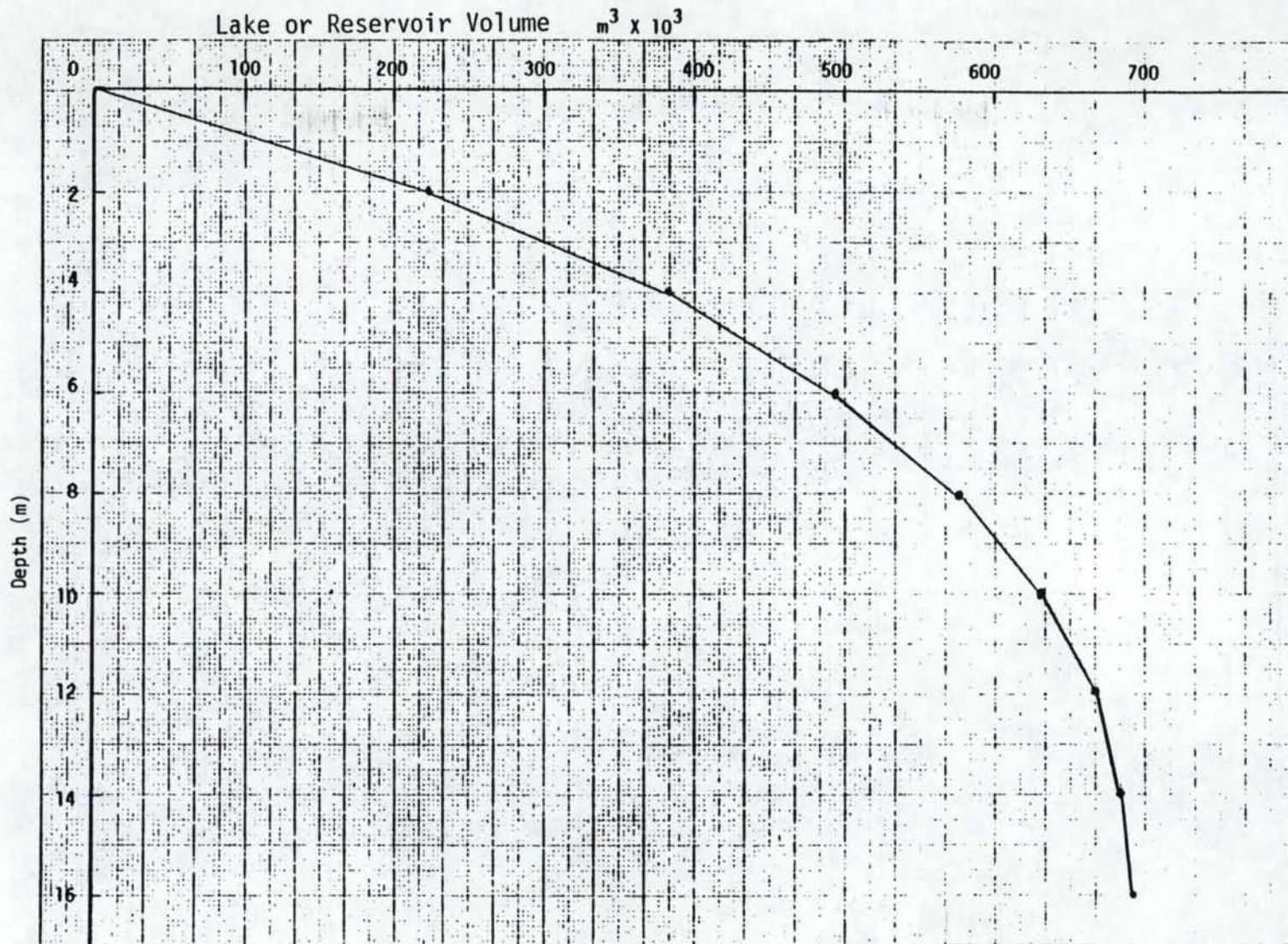


D-83



Crane Creek Reservoir  
Figure D-2. Lake Hypsometric Curves (continued)

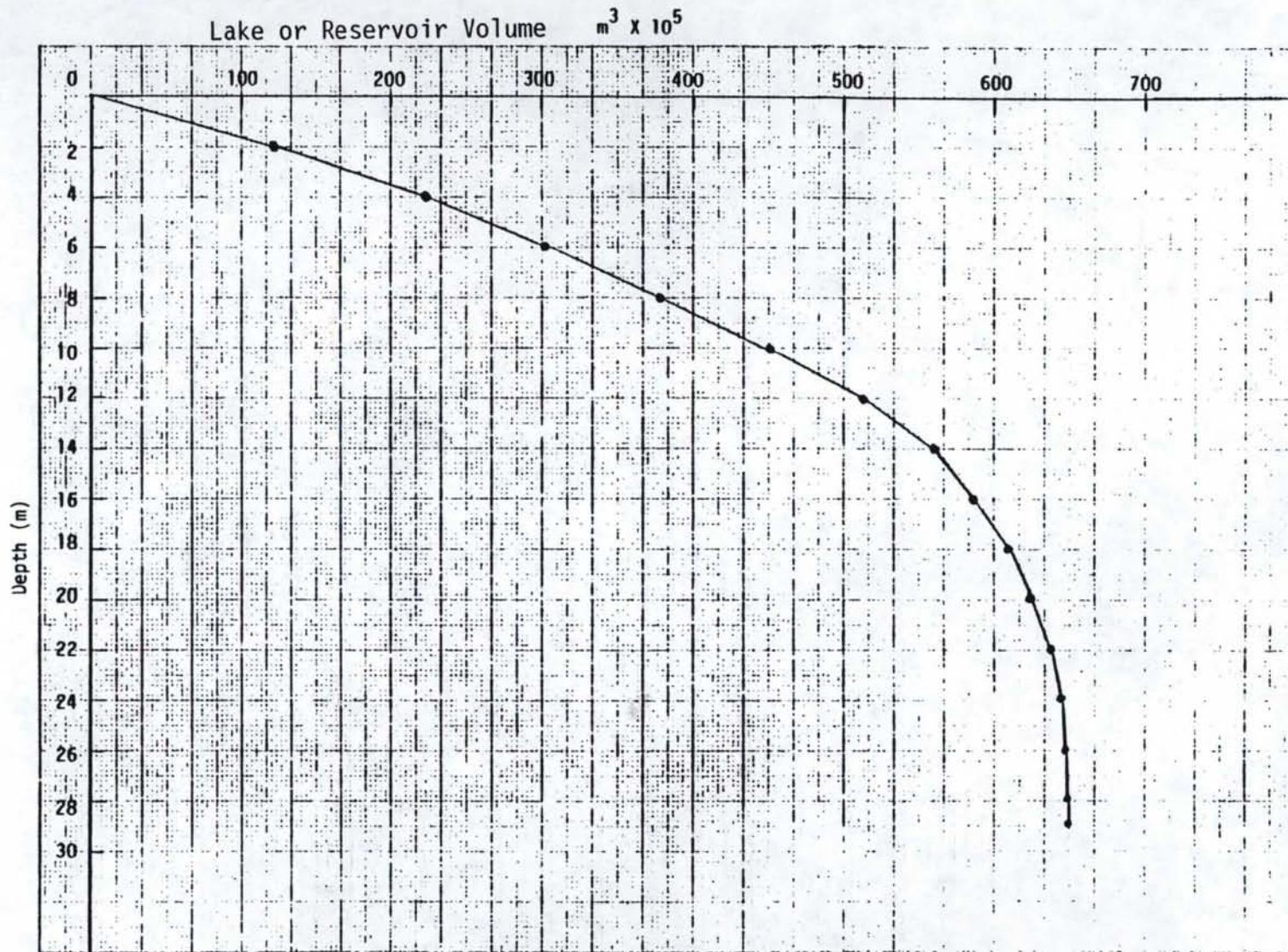
D-84



Upper Walton Lake

Figure D-2. Lake Hypsometric Curves (continued)

D-85



Spirit Lake

Figure D-2. Lake Hypsometric Curves (continued)

D-86

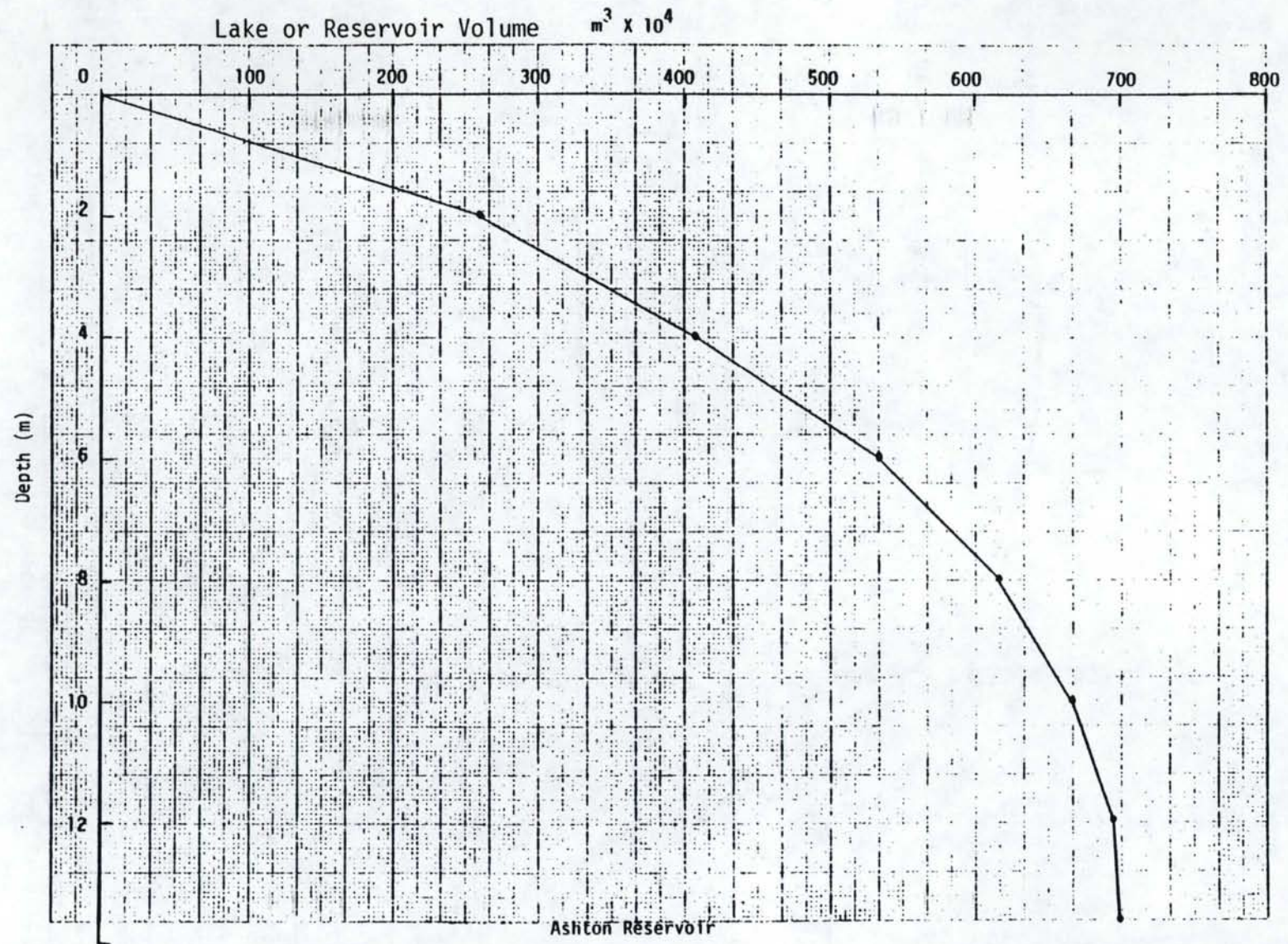


Figure D-2. Lake Hypsometric Curves (continued)

D-87

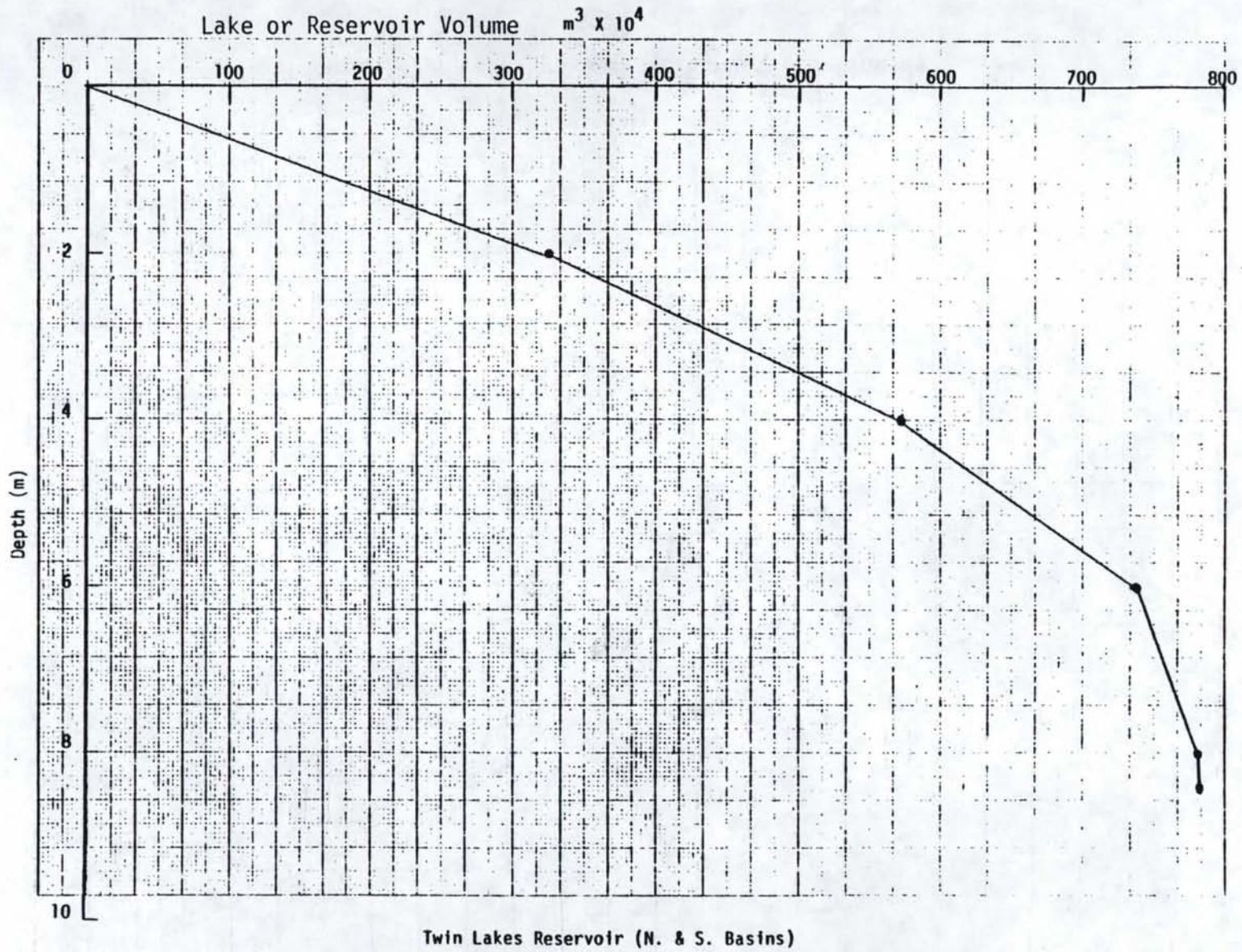


Figure D-2. Lake Hypsometric Curves (continued)

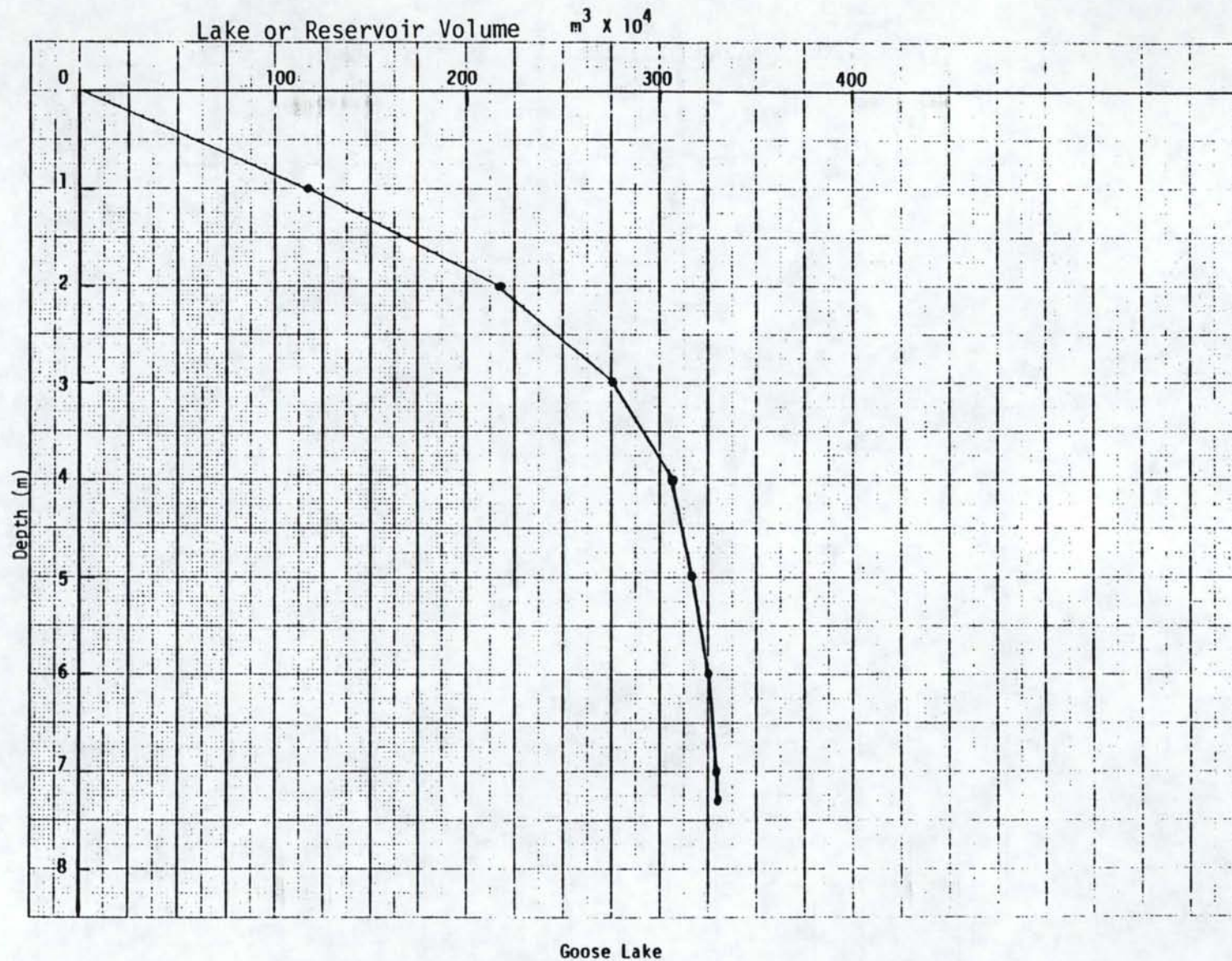


Figure D-2. Lake Hypsometric Curves (continued)

D-89

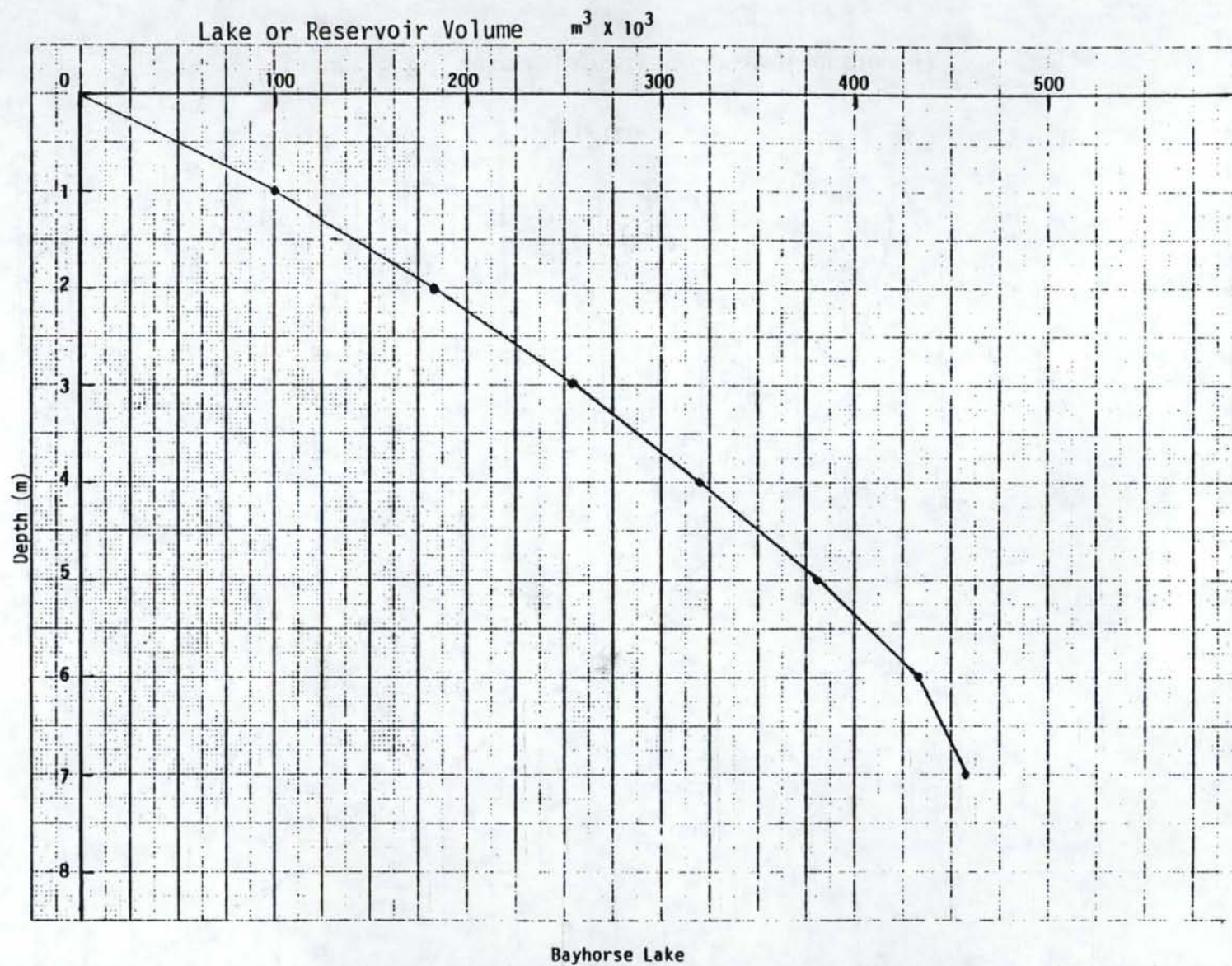


Figure D-2. Lake Hypsometric Curves (continued)

D-90

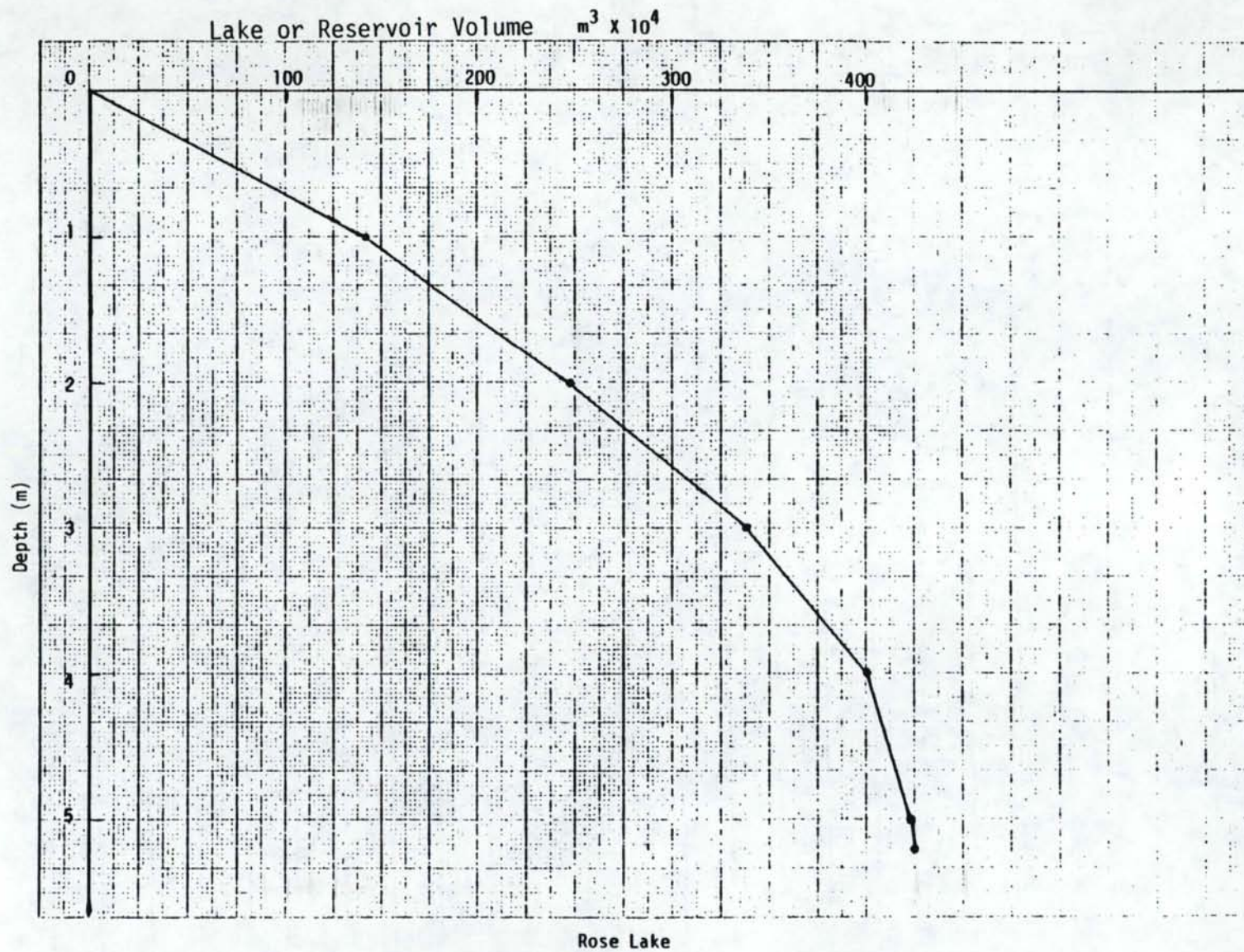


Figure D-2. Lake Hypsometric Curves (continued)



D-91

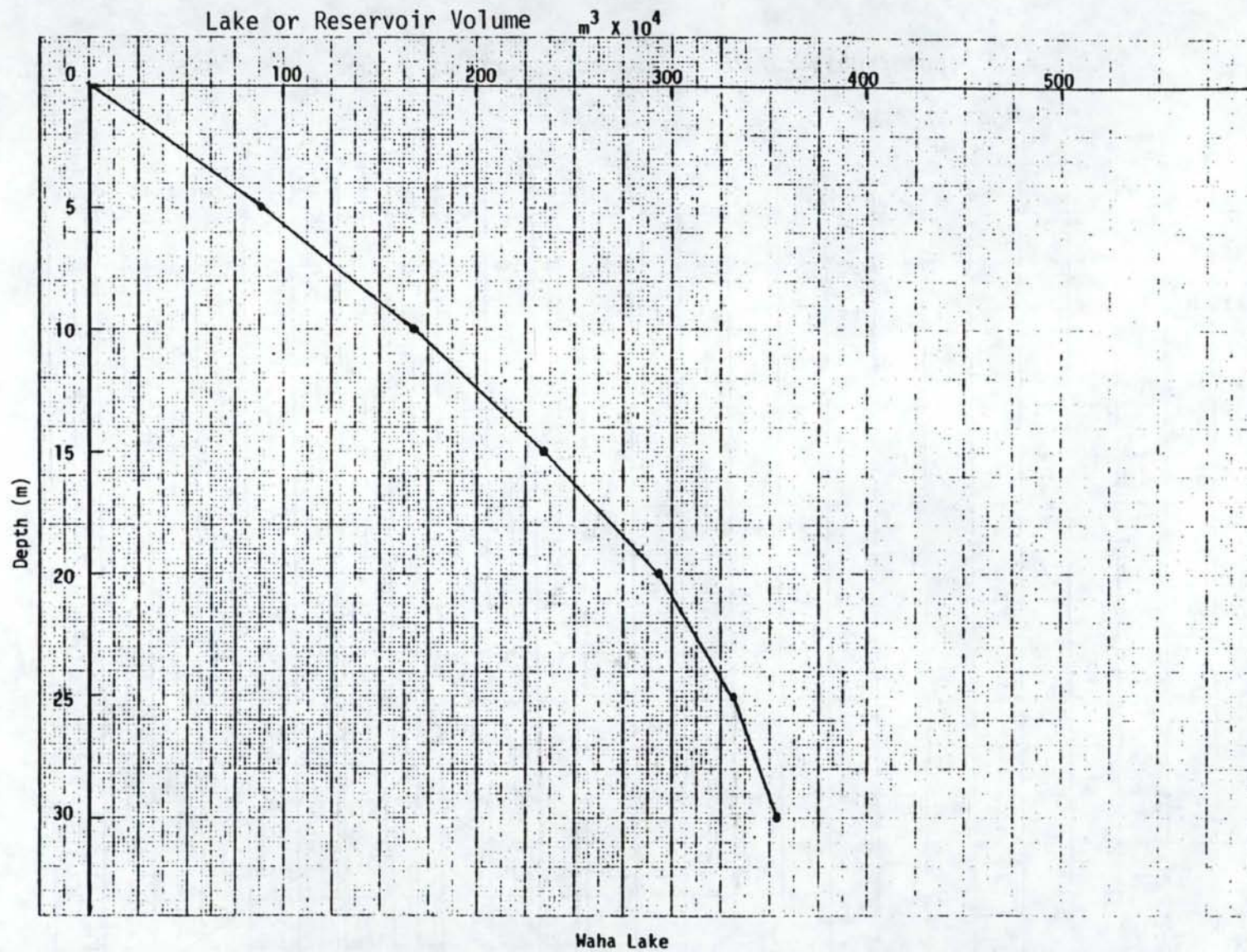


Figure D-2. Lake Hypsometric Curves (continued)

D-92

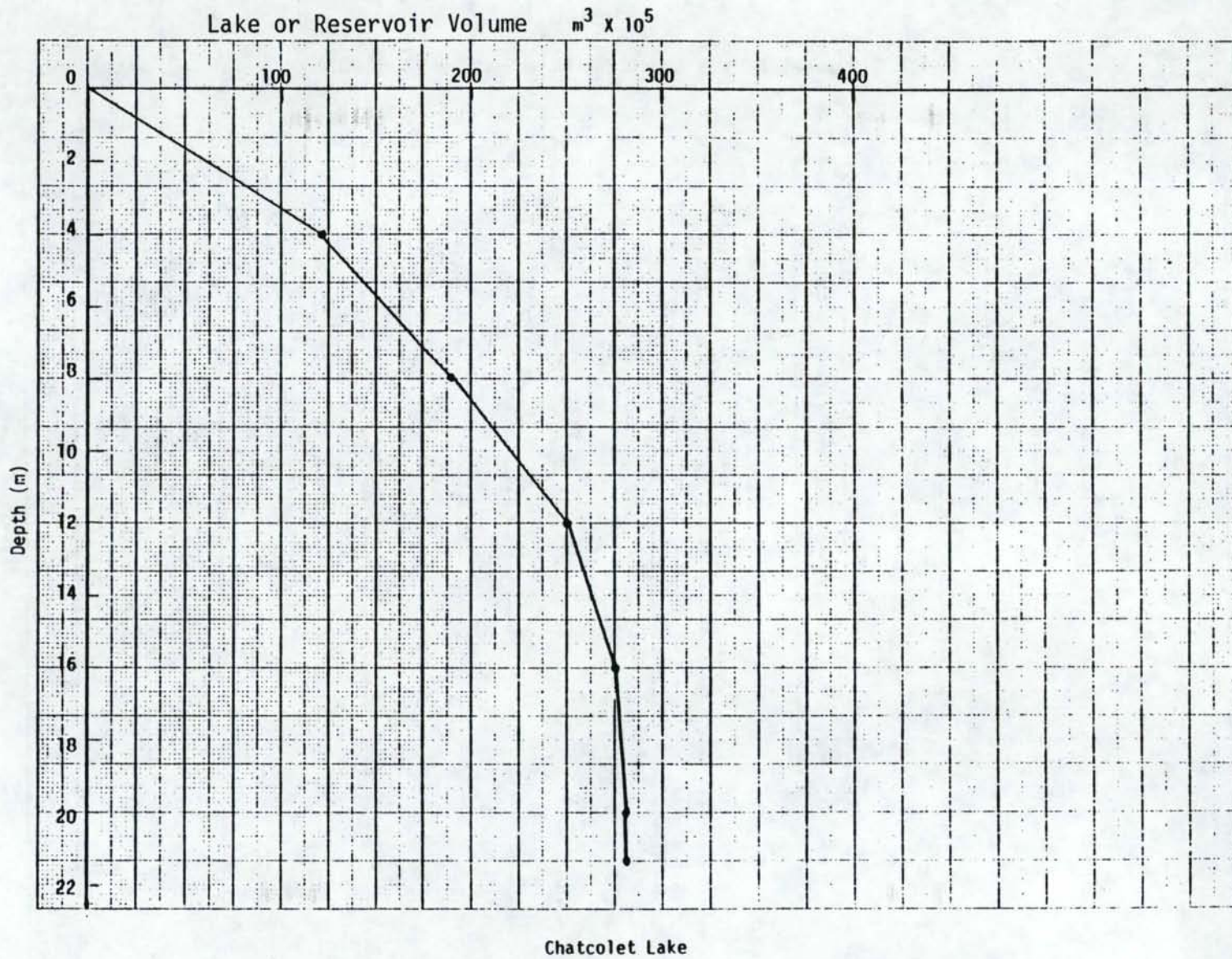


Figure D-2. Lake Hypsometric Curves (continued)

D-93

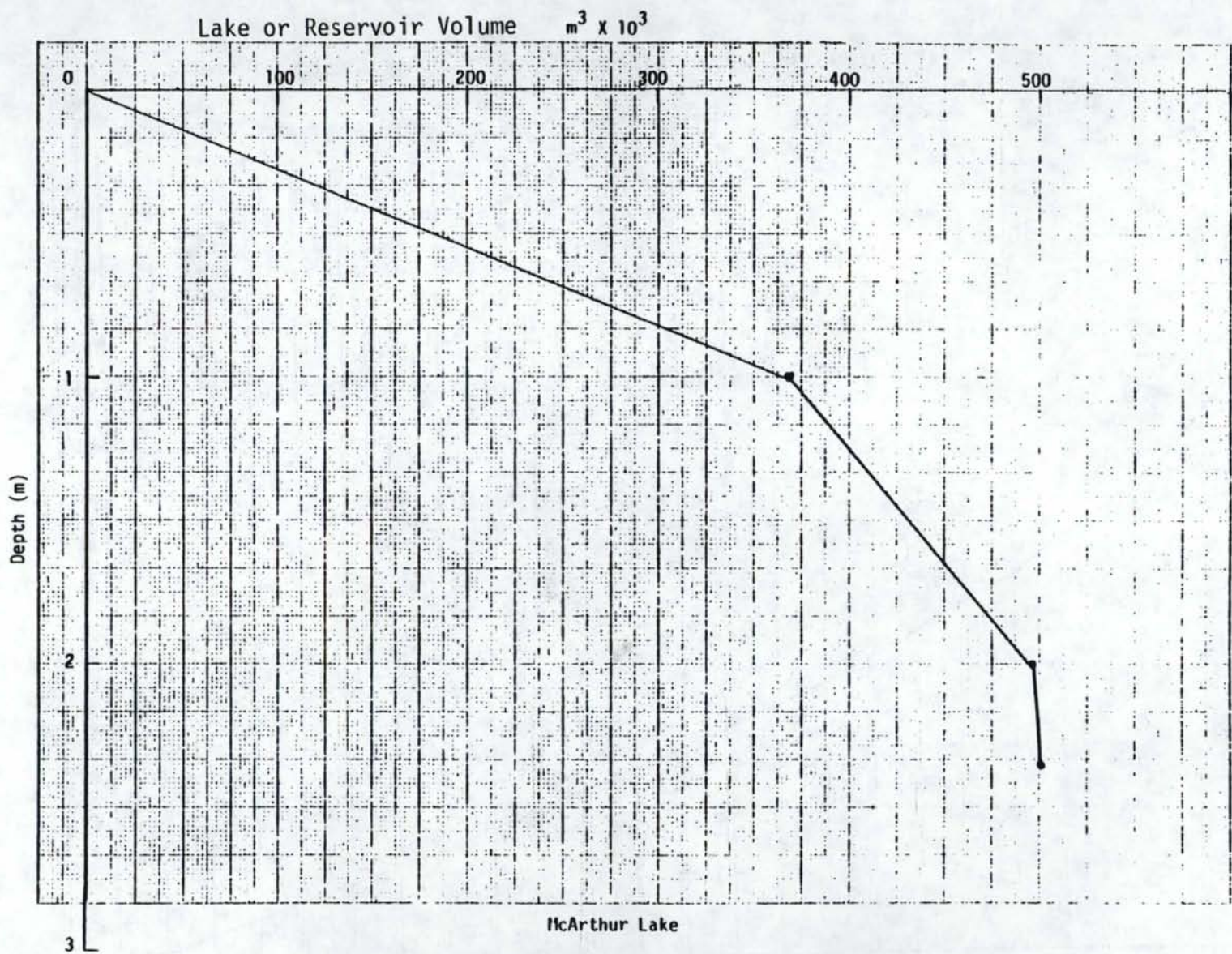


Figure D-2. Lake Hypsometric Curves (continued)

D-94

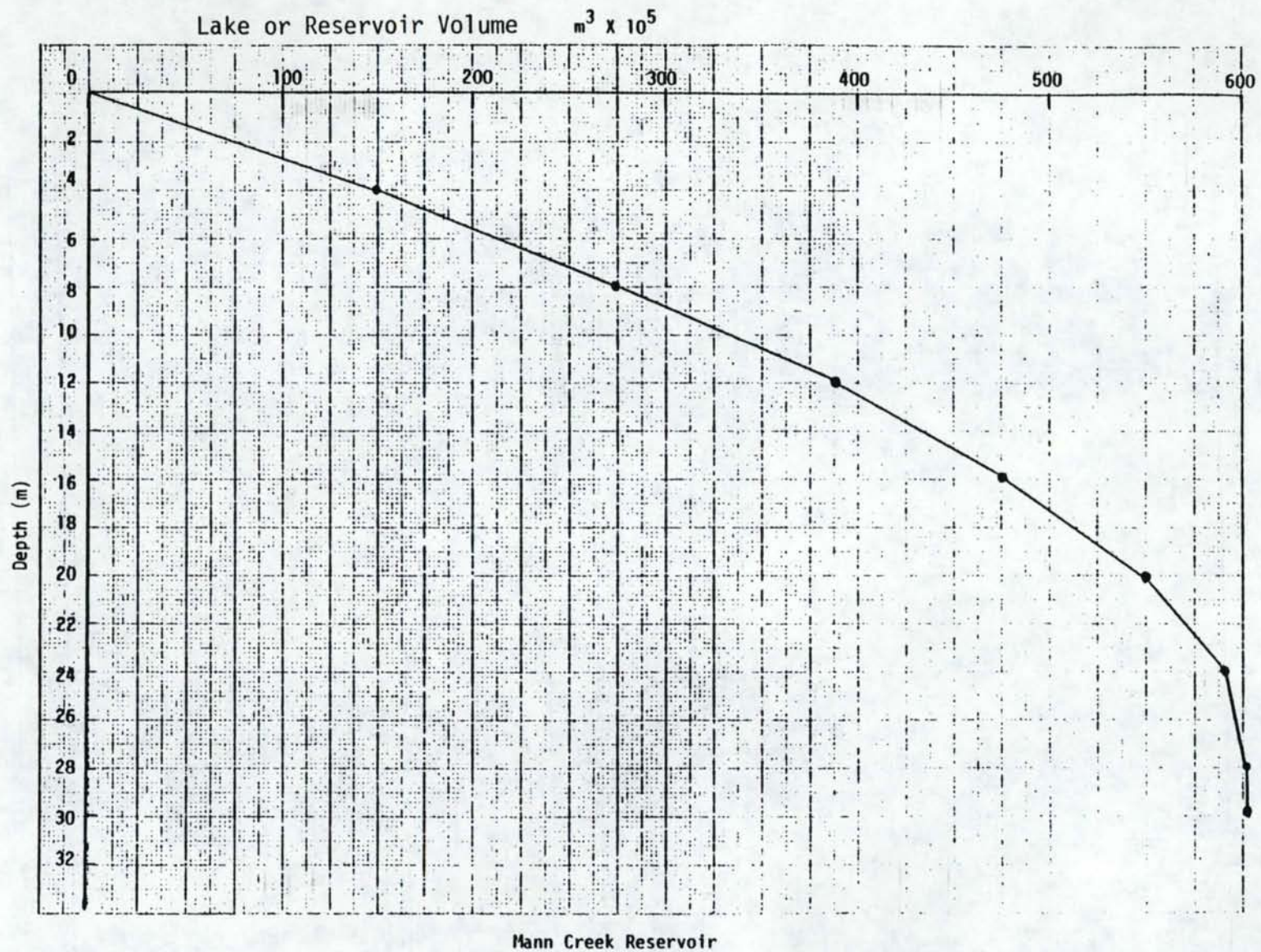


Figure D-2. Lake Hypsometric Curves (continued)

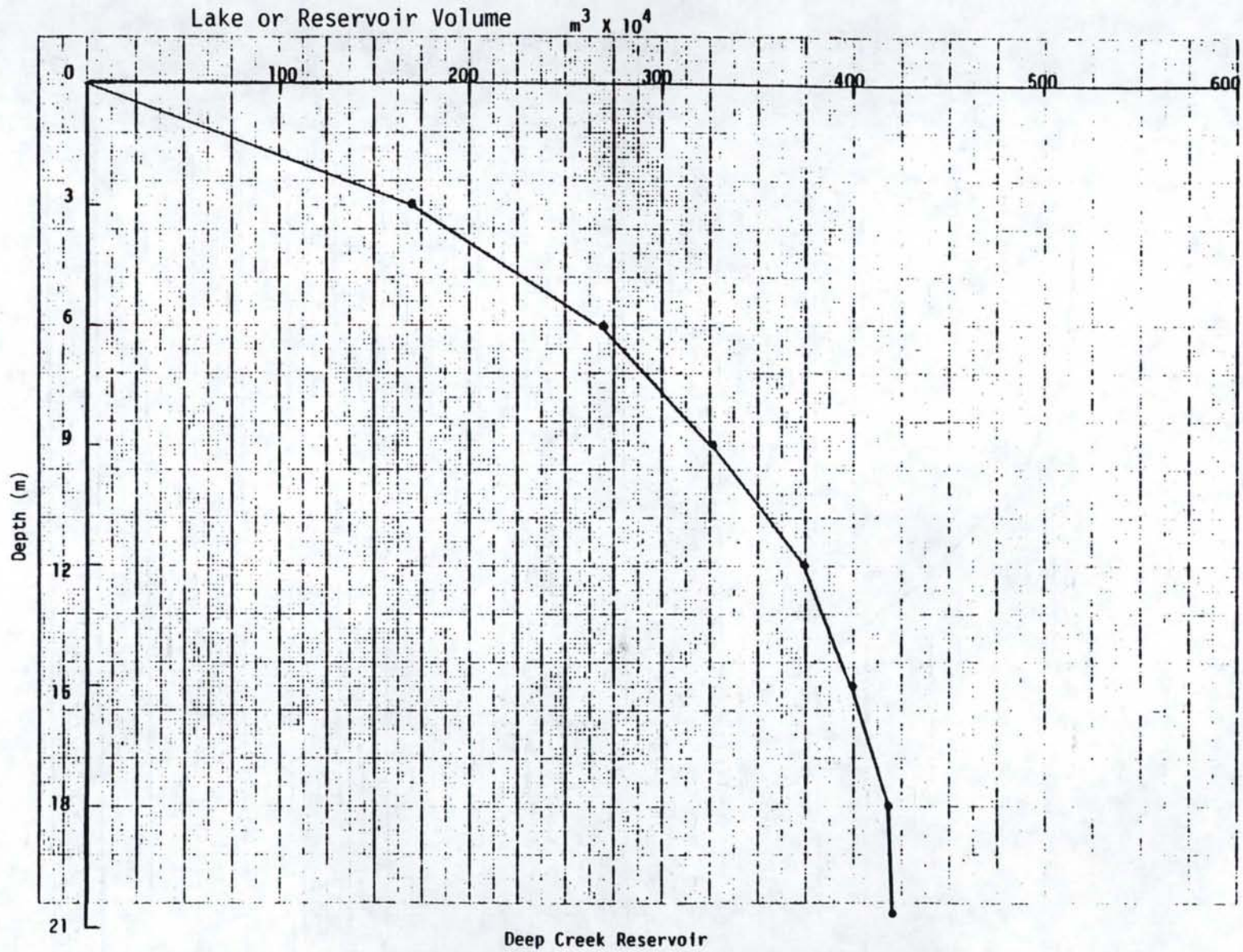


Figure D-2. Lake Hypsometric Curves (continued)

D-96

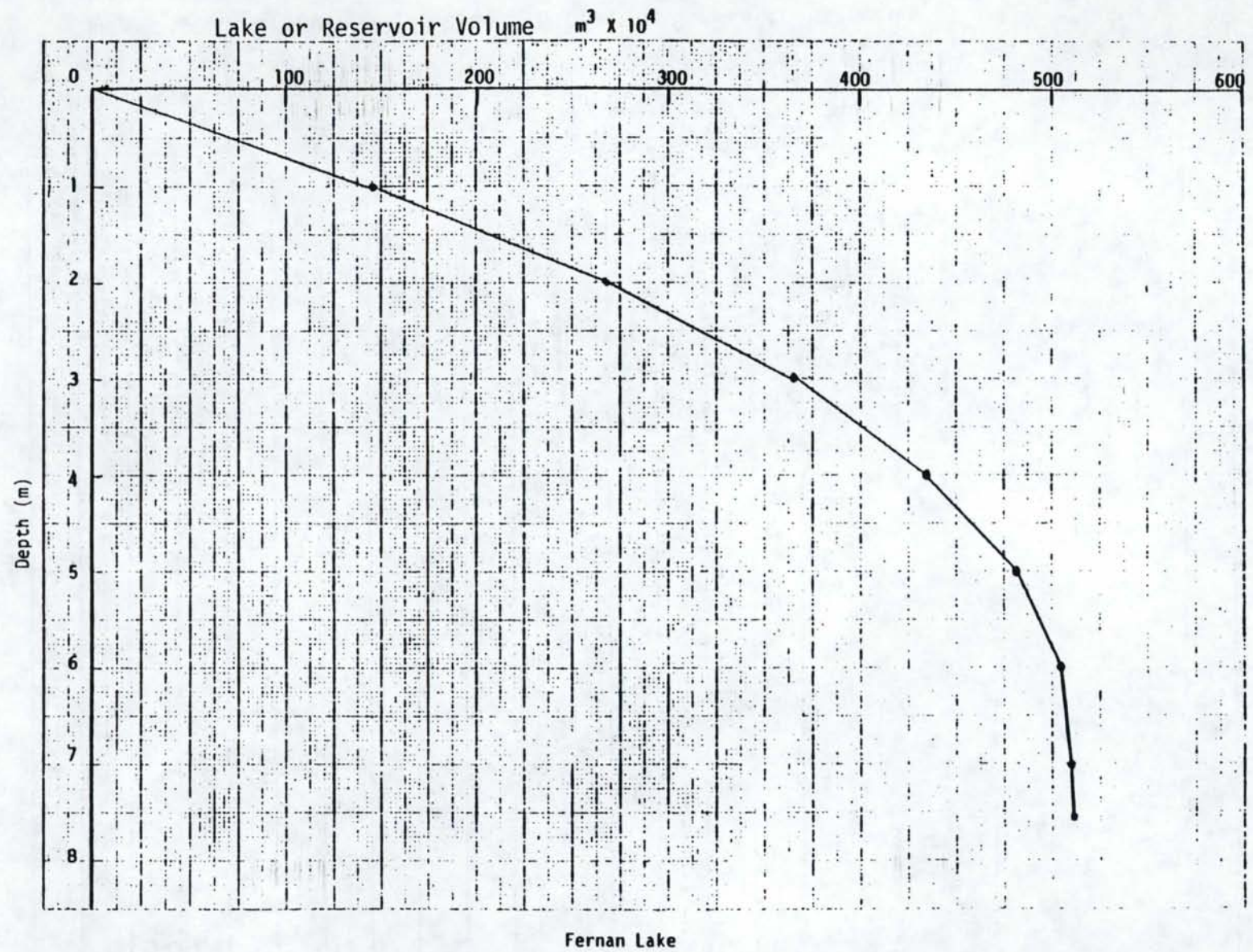


Figure D-2. Lake Hypsometric Curves (continued)

D-97

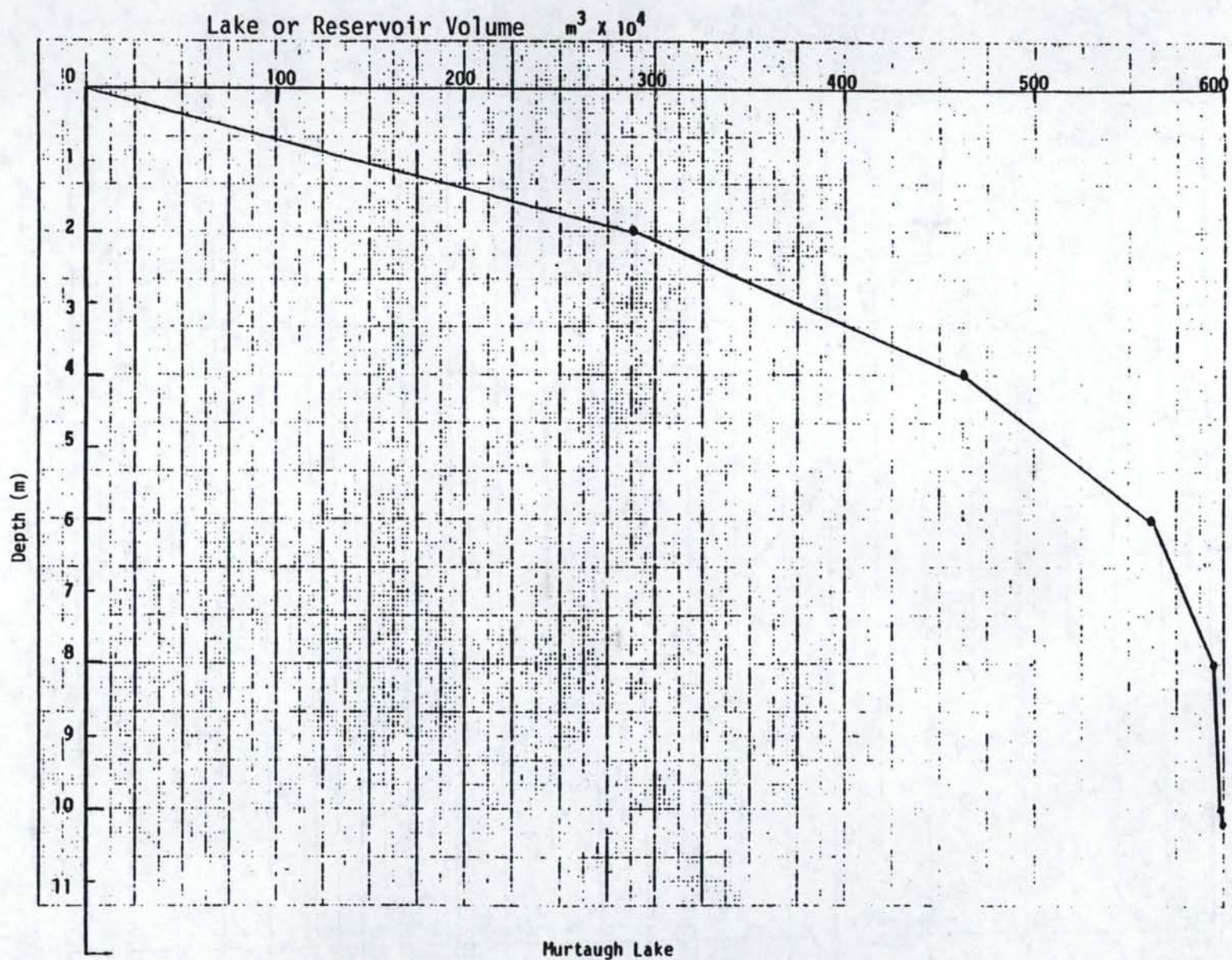
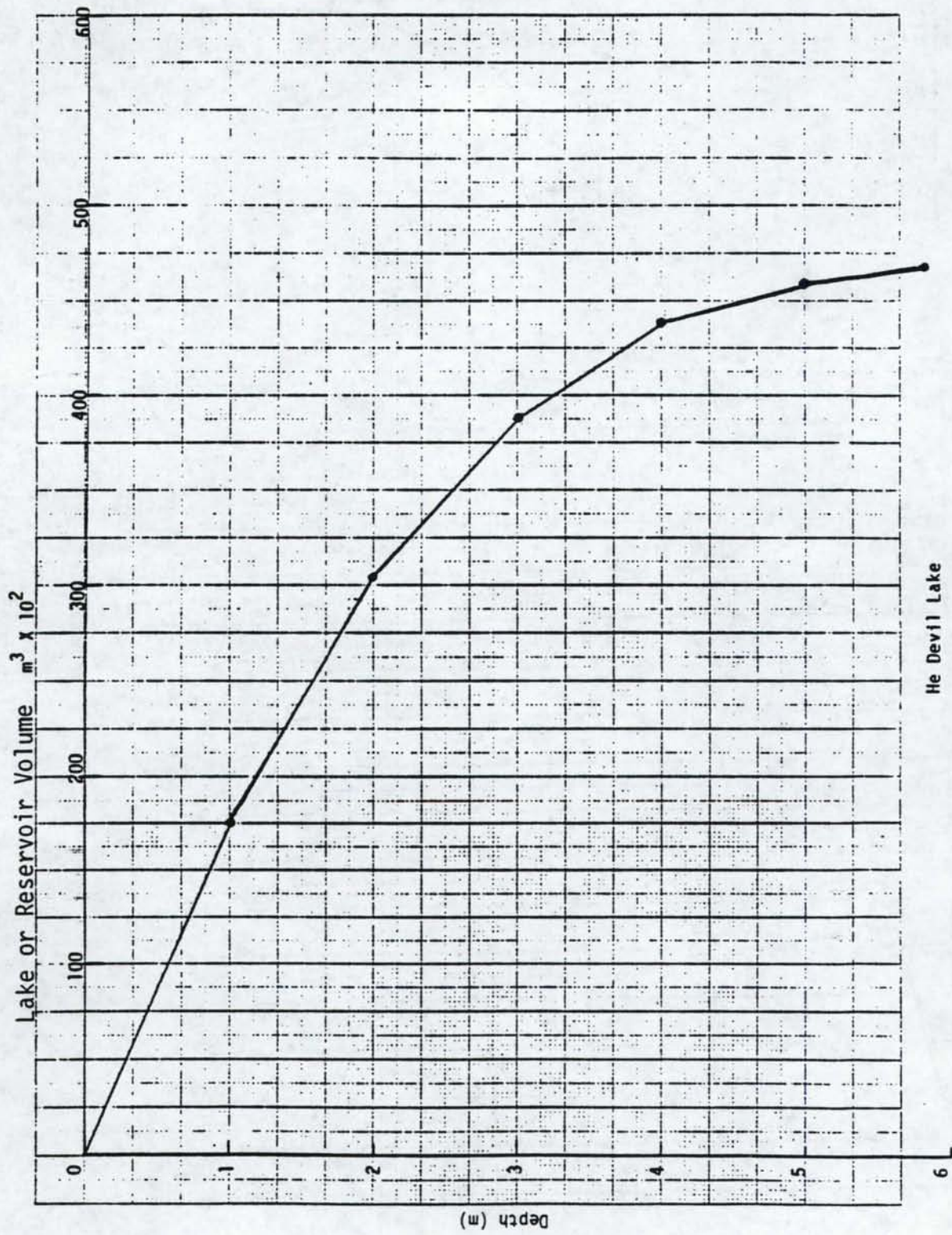


Figure D-2. Lake Hypsometric Curves (continued)



He Devil Lake

Figure D-2. Lake Hypsometric Curves (continued)



66-D

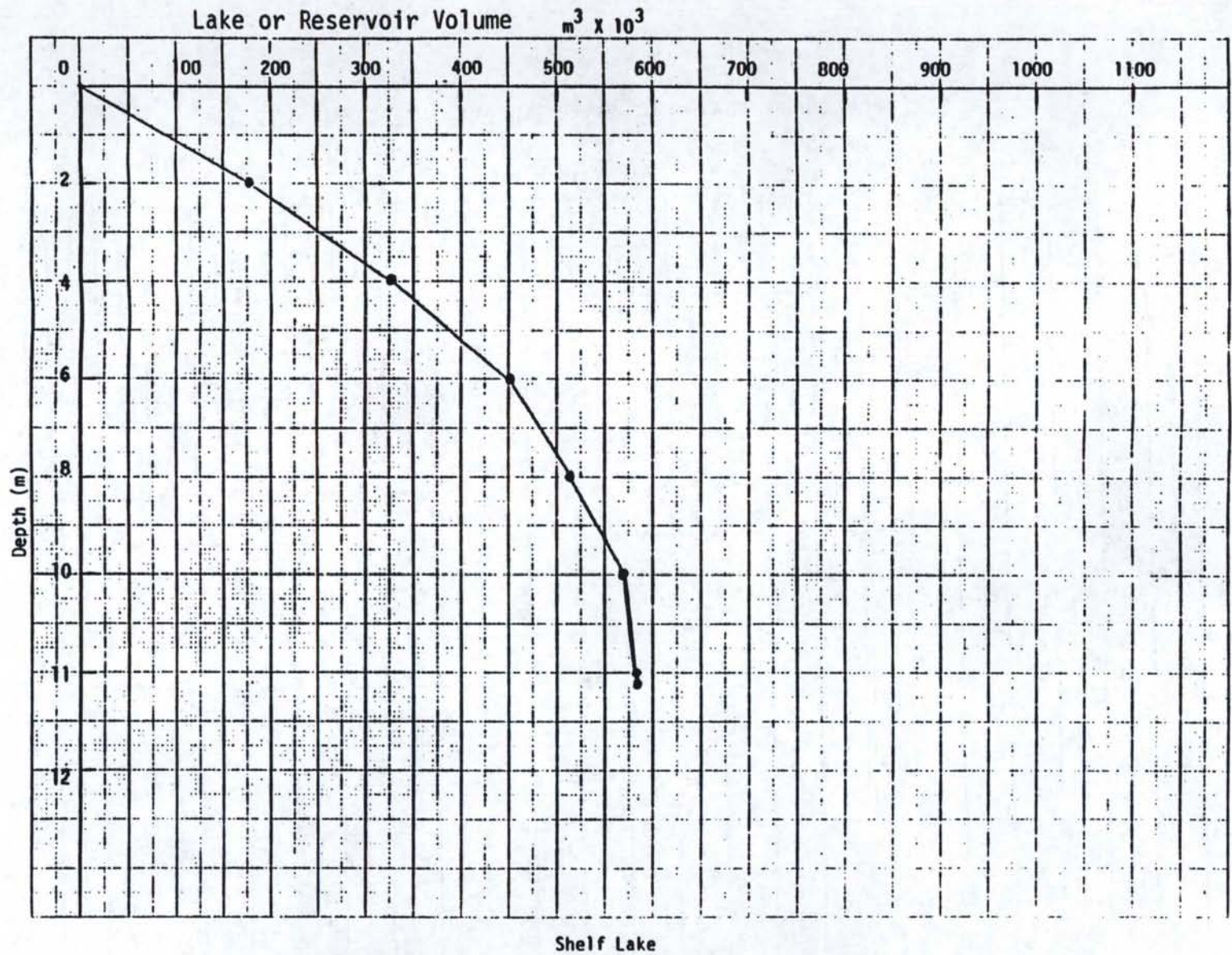


Figure D-2. Lake Hypsometric Curves (continued)

D-100

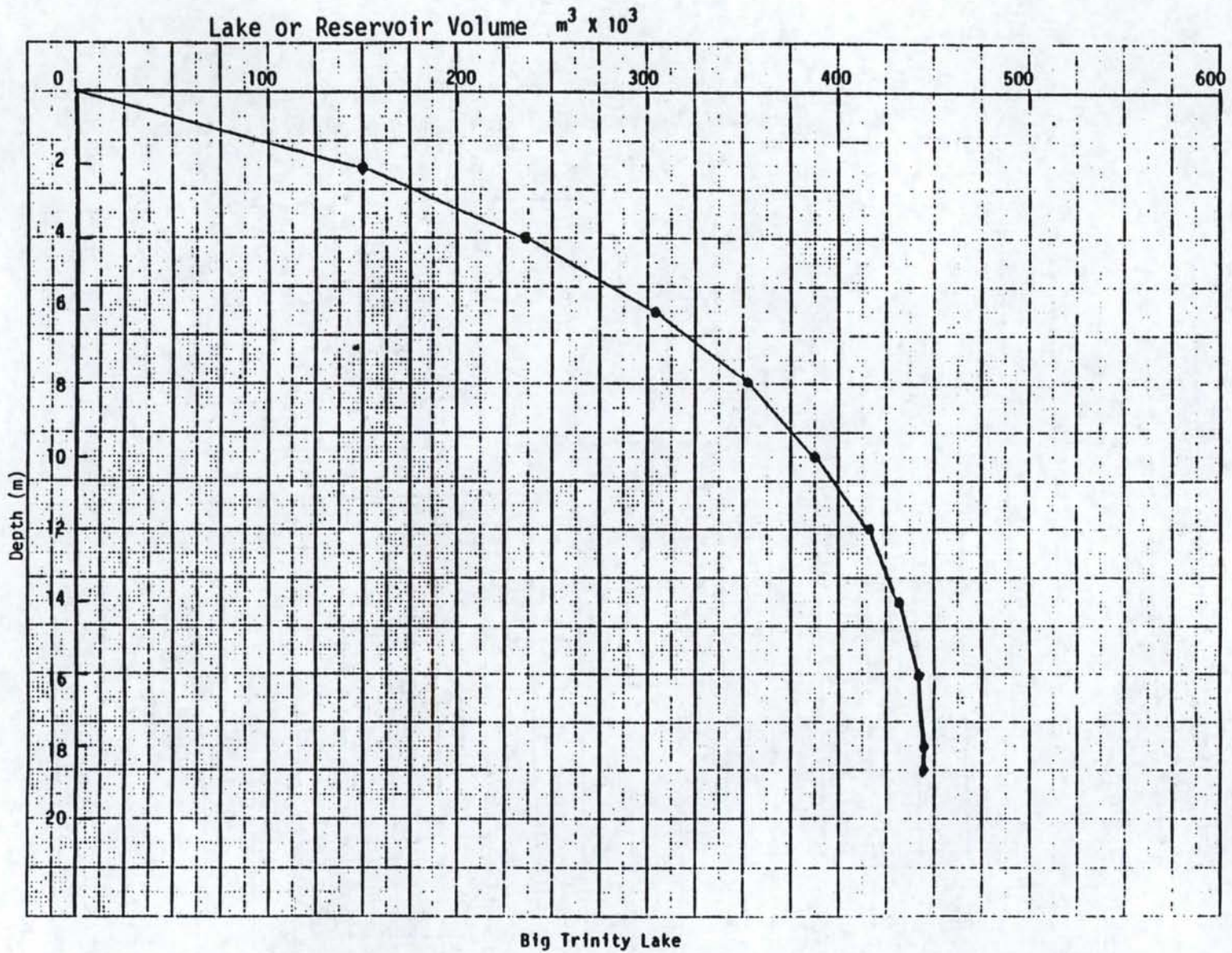
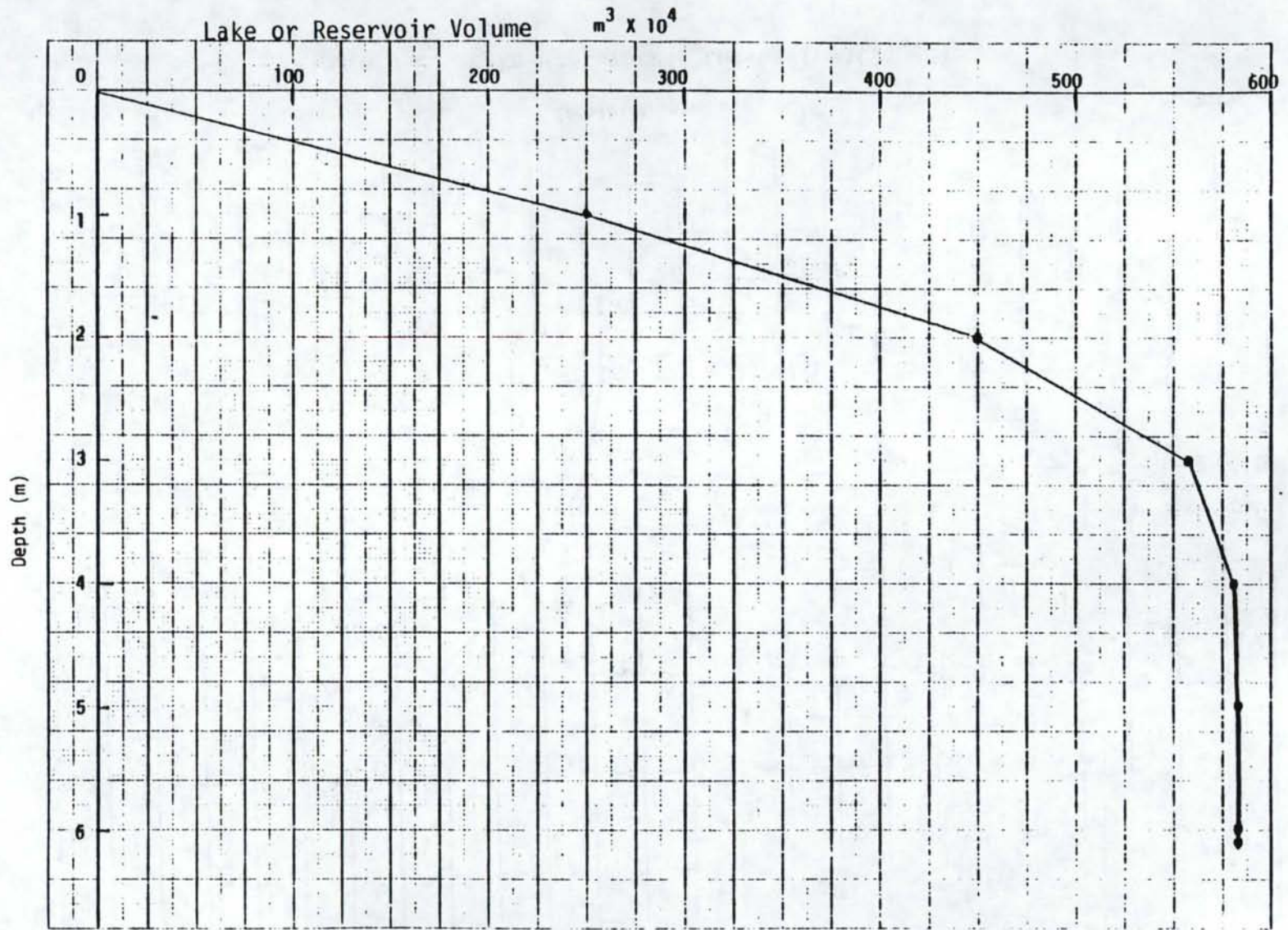


Figure D-2. Lake Hypsometric Curves (continued)

D-101



Wilson Lake Reservoir  
Figure D-2. Lake Hypsometric Curves (continued)

D-102

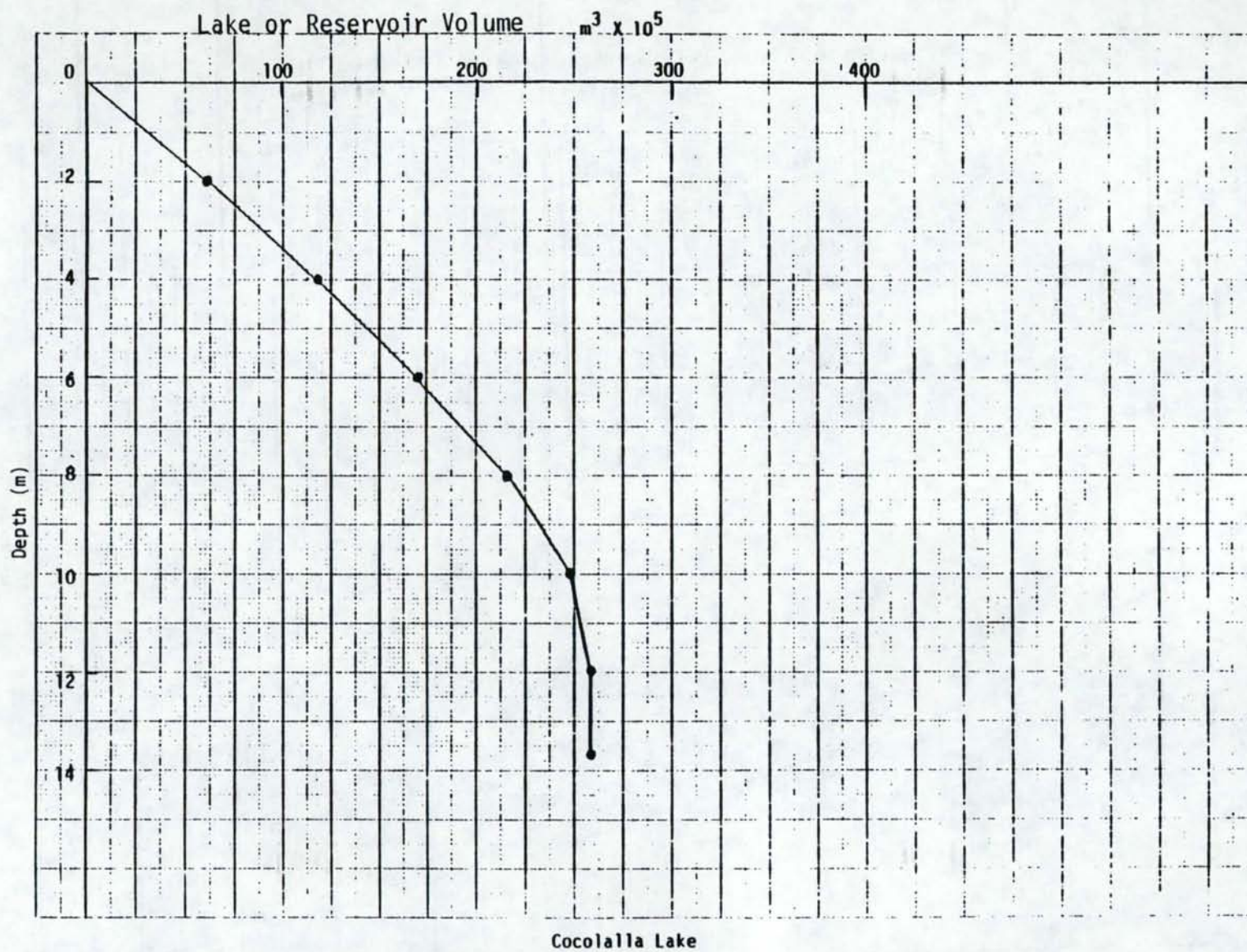


Figure D-2. Lake Hypsometric Curves (continued)

D-103

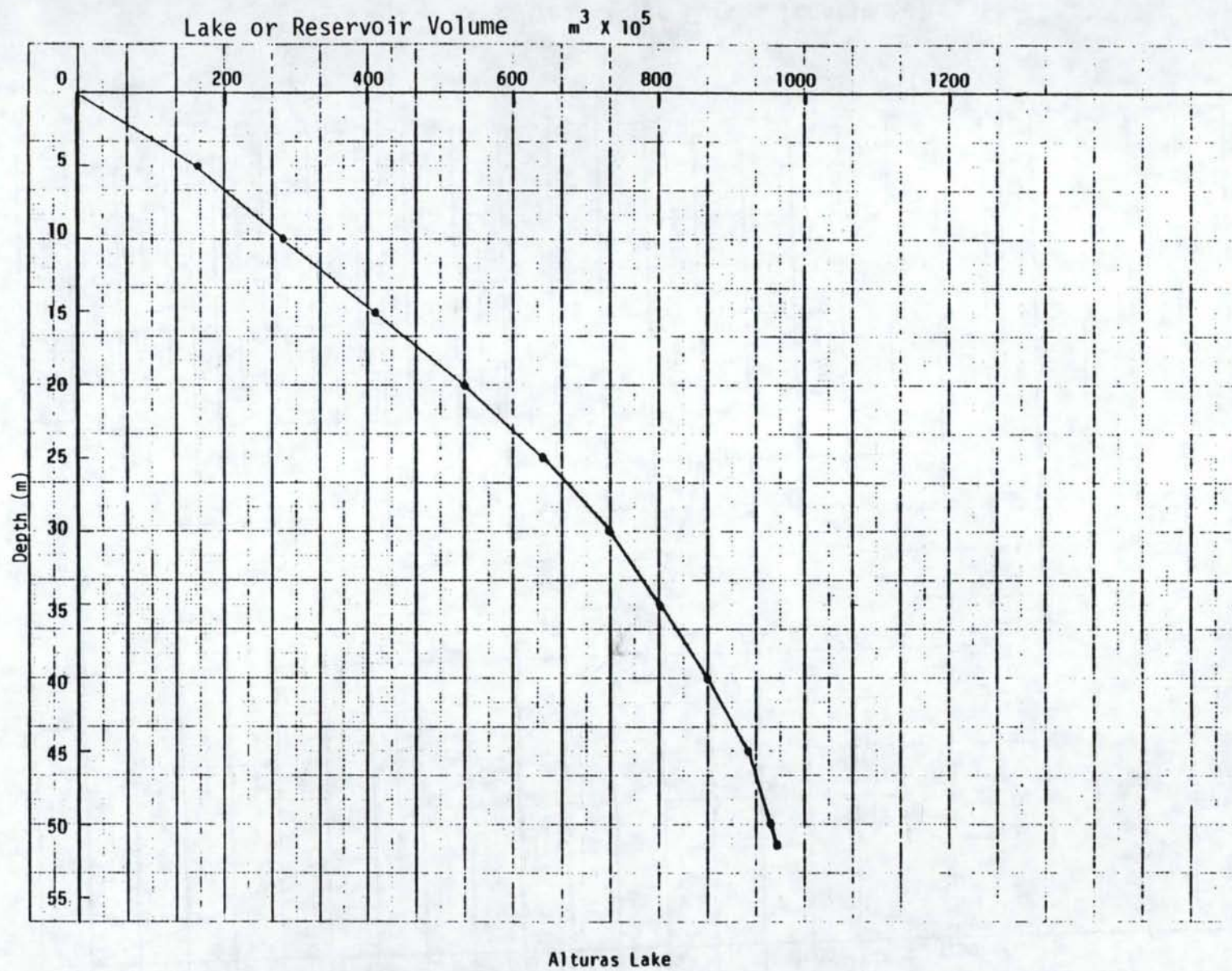


Figure D-2. Lake Hypsometric Curves (continued)

D-104

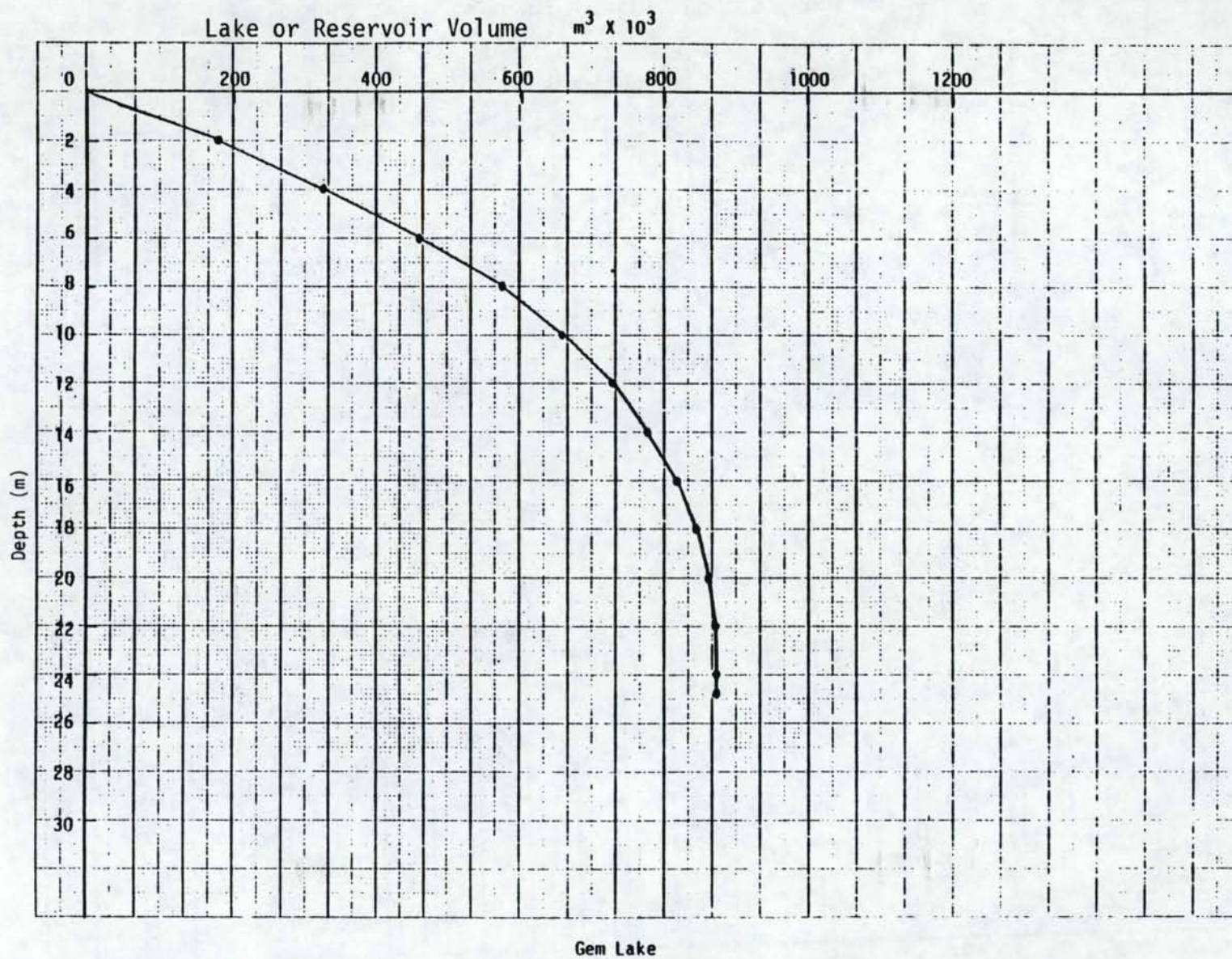


Figure D-2. Lake Hypsometric Curves (continued)

D-105

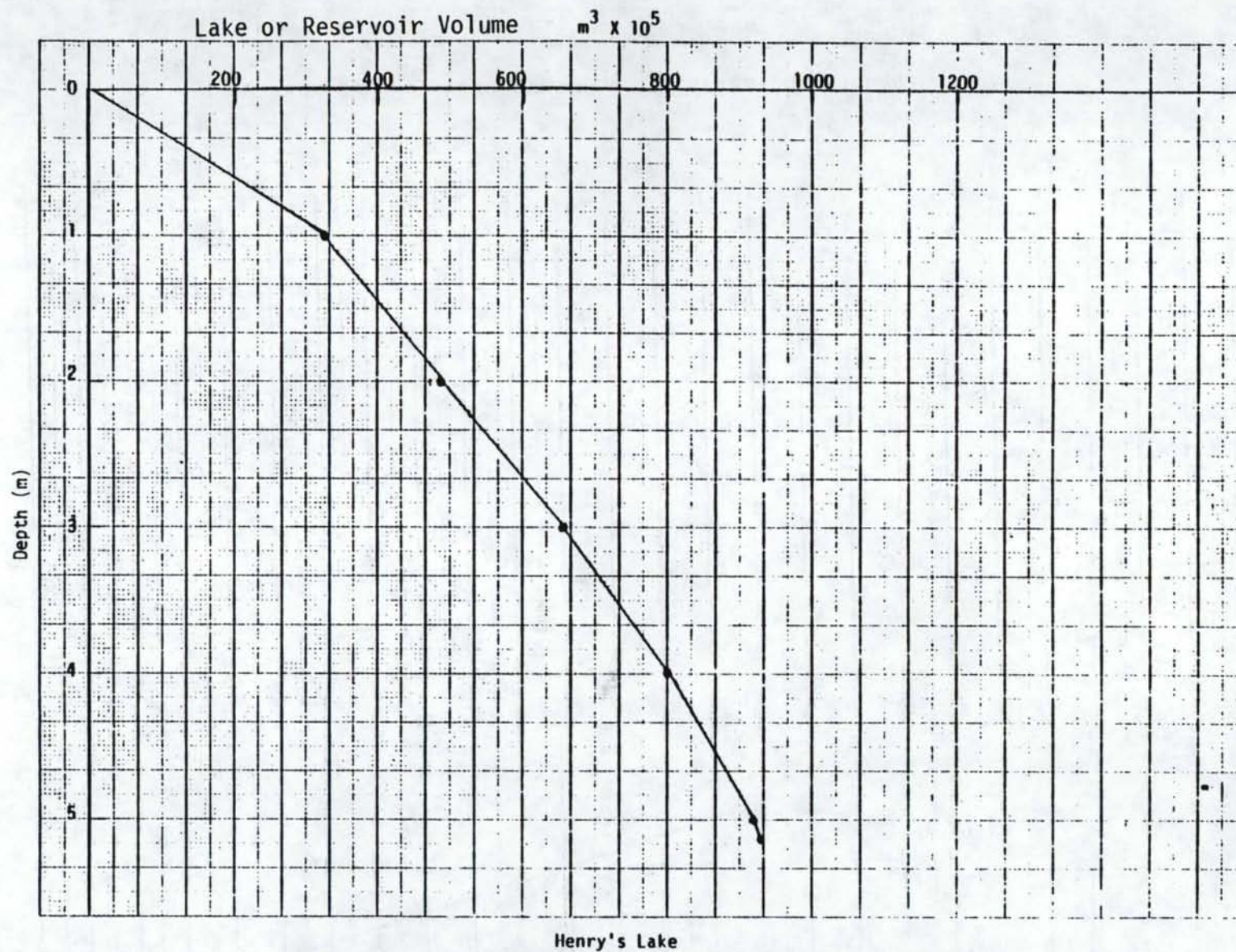


Figure D-2. Lake Hypsometric Curves (continued)

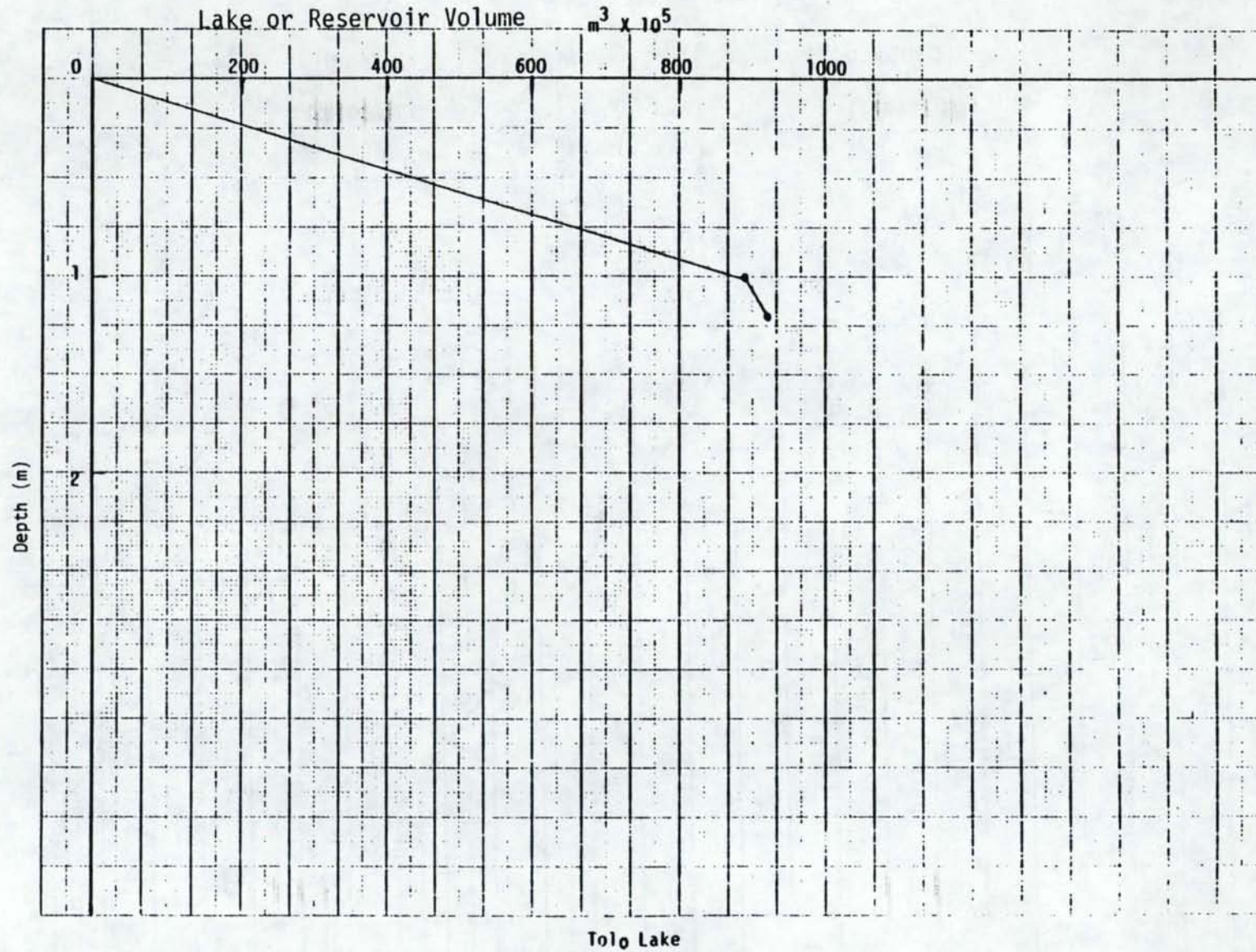


Figure D-2. Lake Hypsometric Curves (continued)



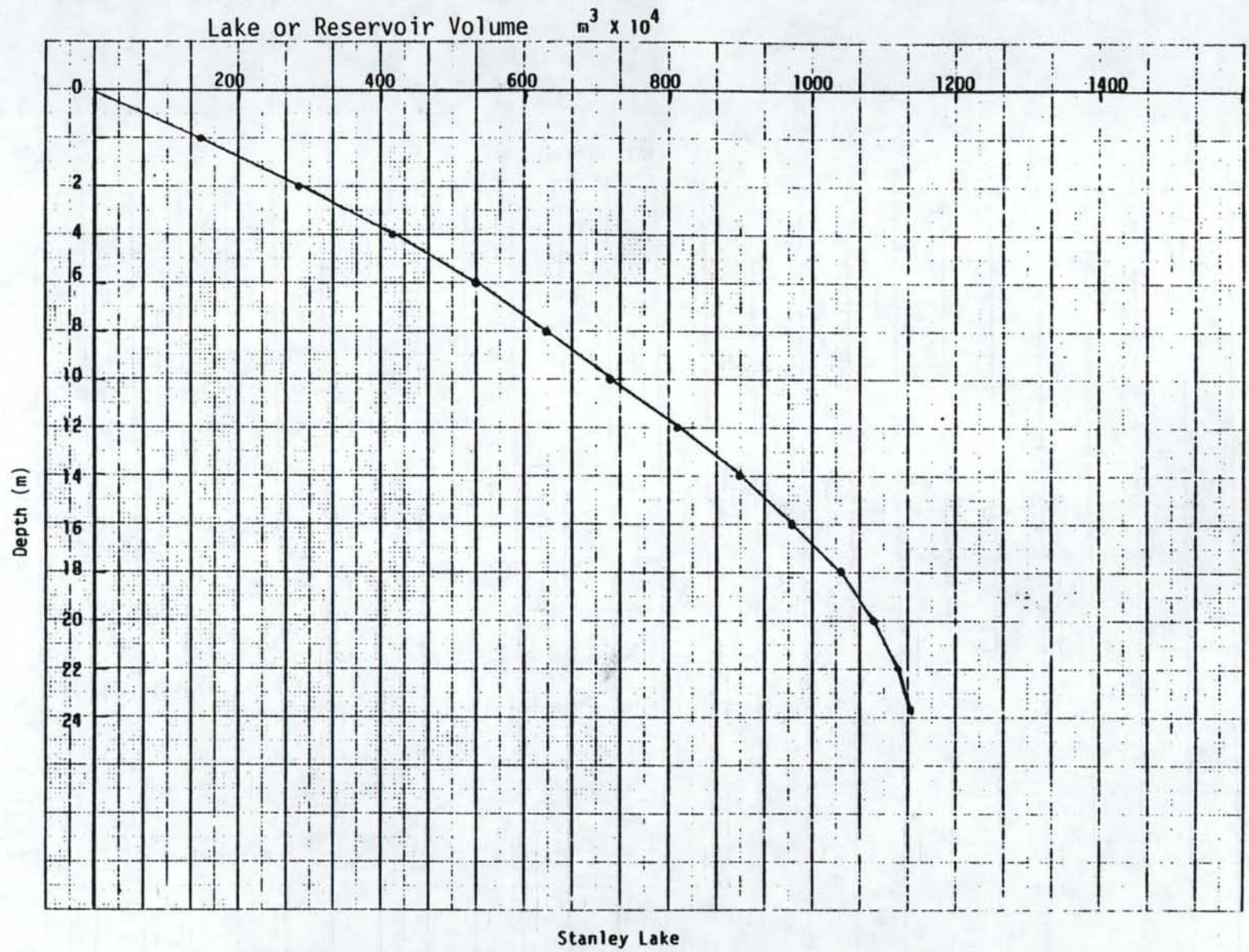


Figure D-2. Lake Hypsometric Curves (continued)

D-108

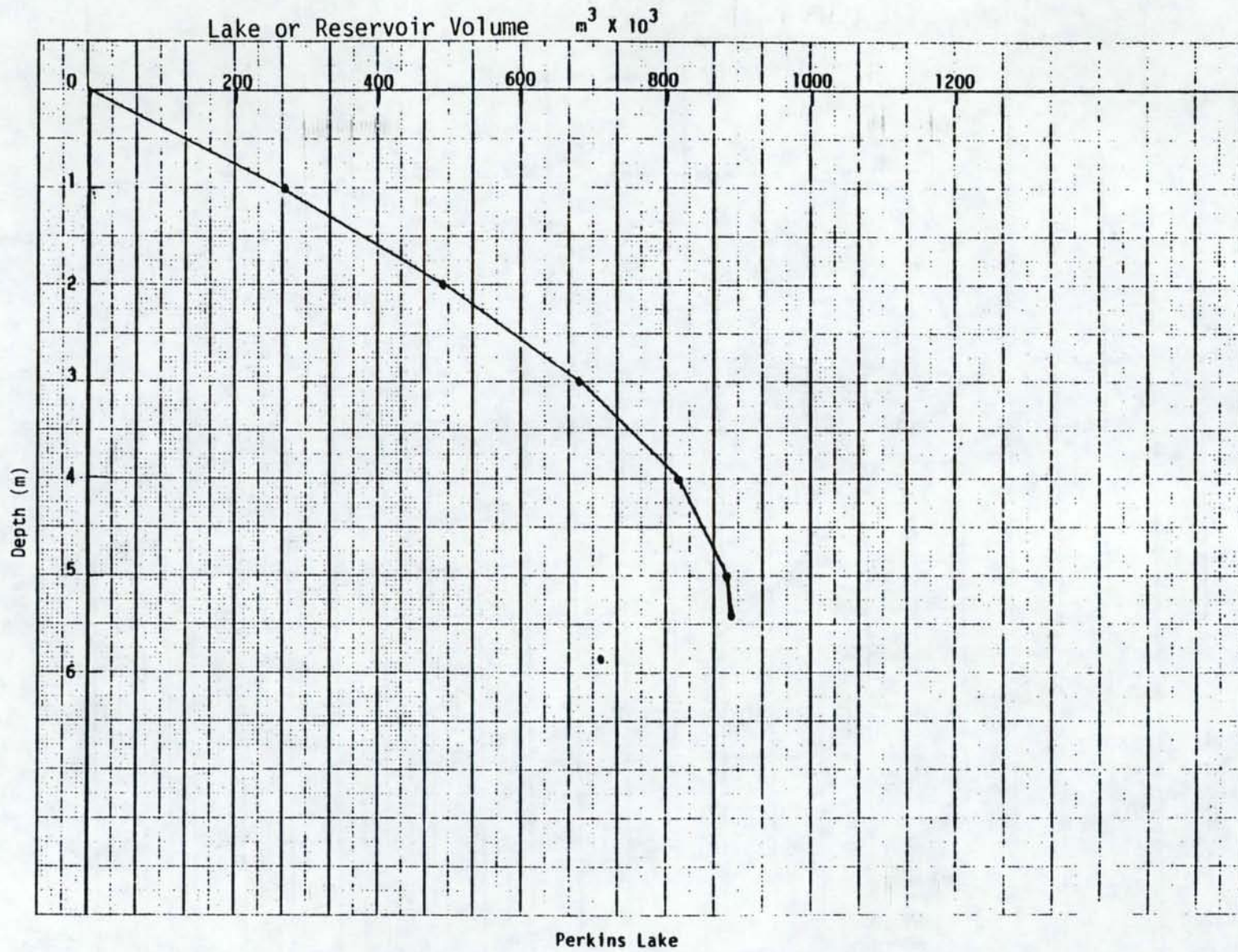
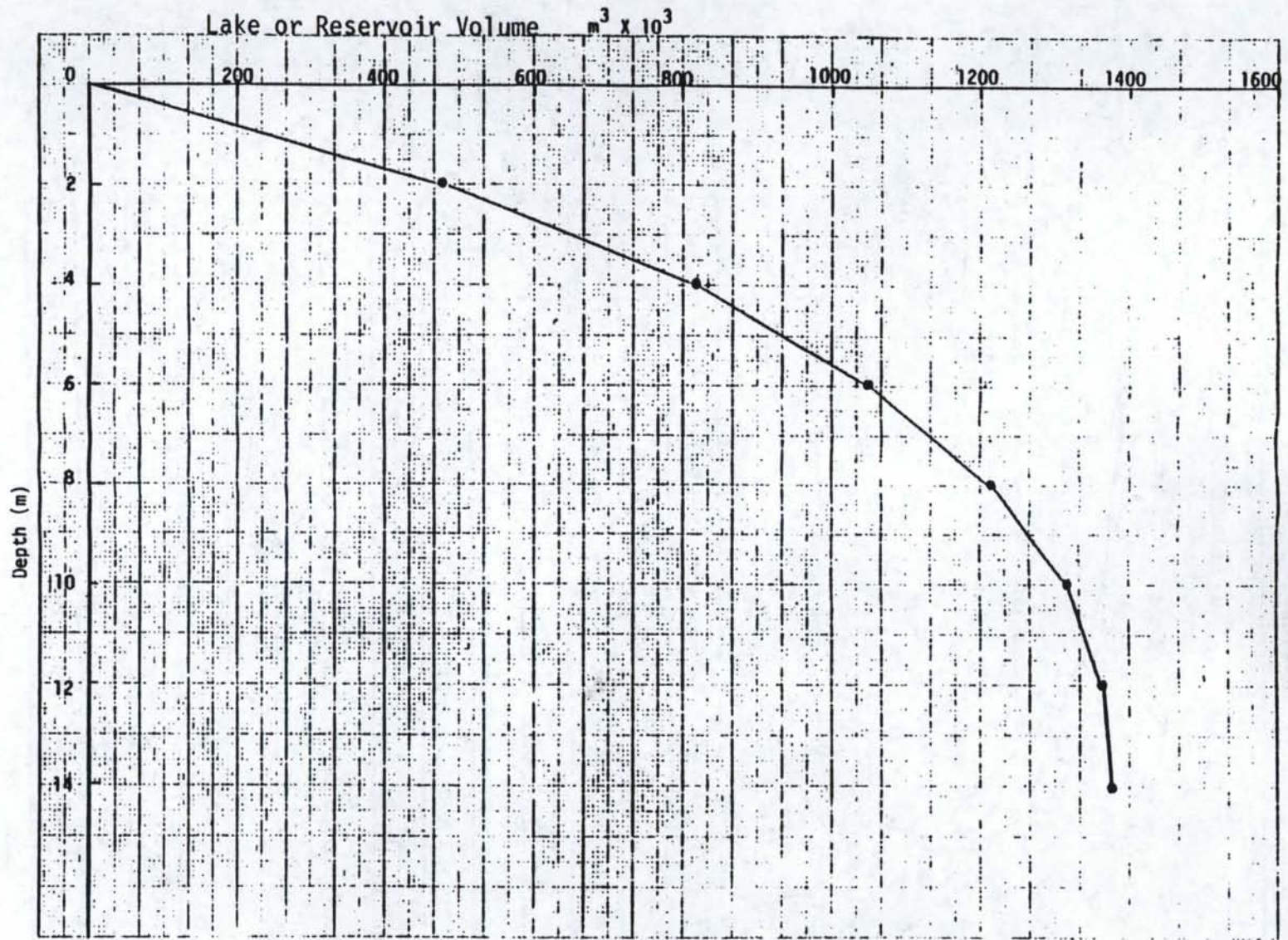


Figure D-2. Lake Hypsometric Curves (continued)

D-109



Soldiers Meadow Reservoir

Figure D-2. Lake Hypsometric Curves (continued)

D-110

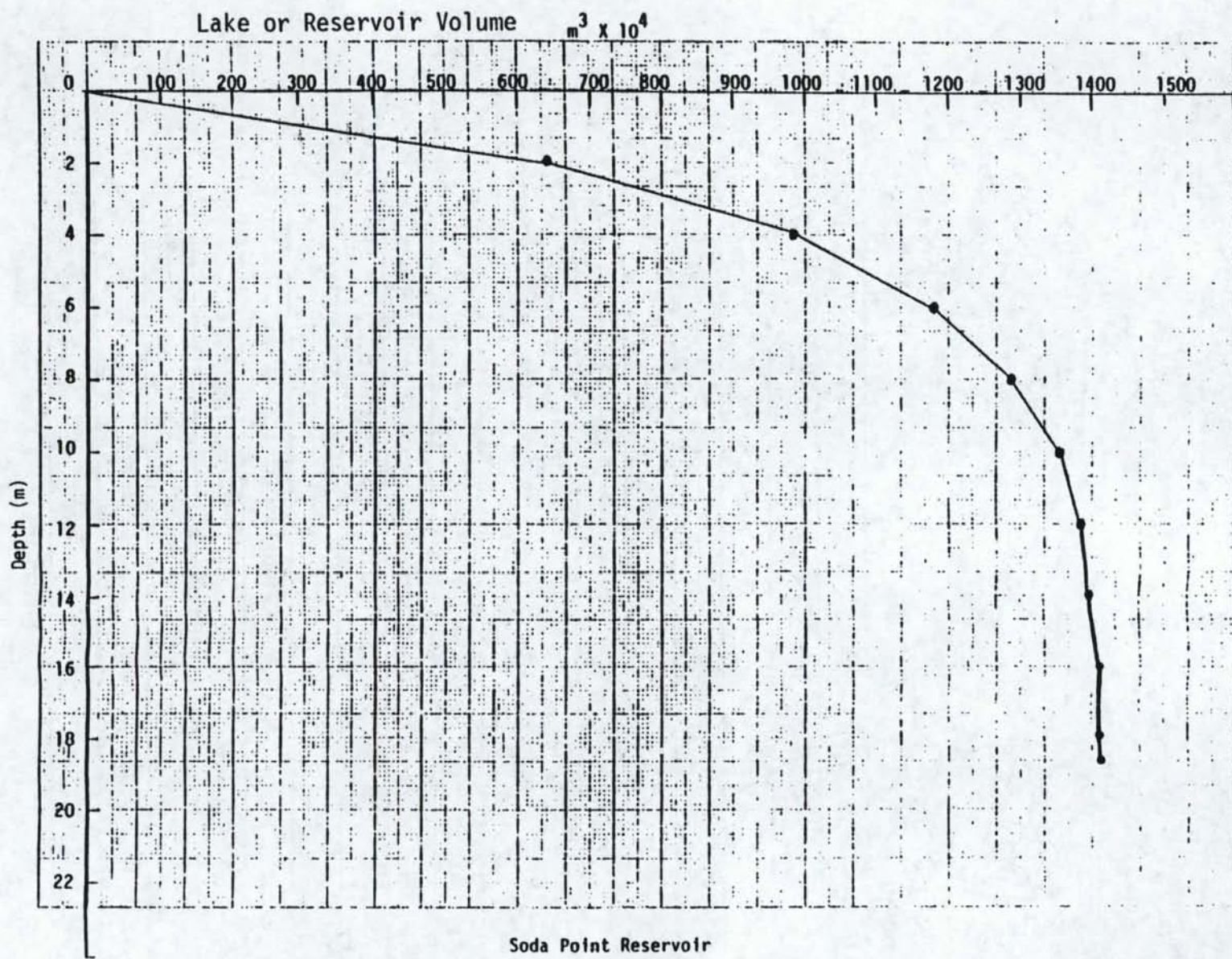


Figure D-2. Lake Hypsometric Curves (continued)

D-111

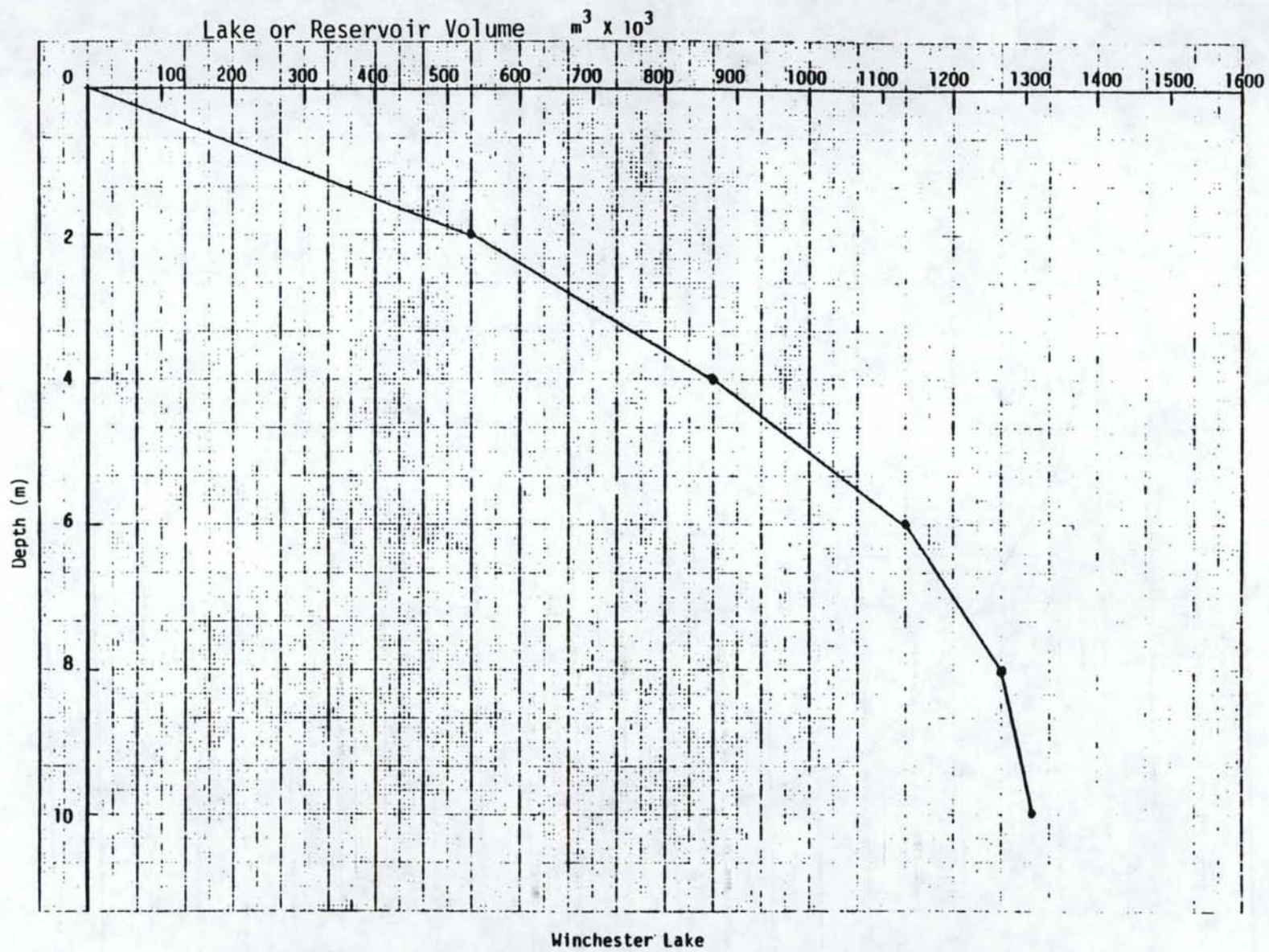


Figure D-2. Lake Hypsometric Curves (continued)

D-112

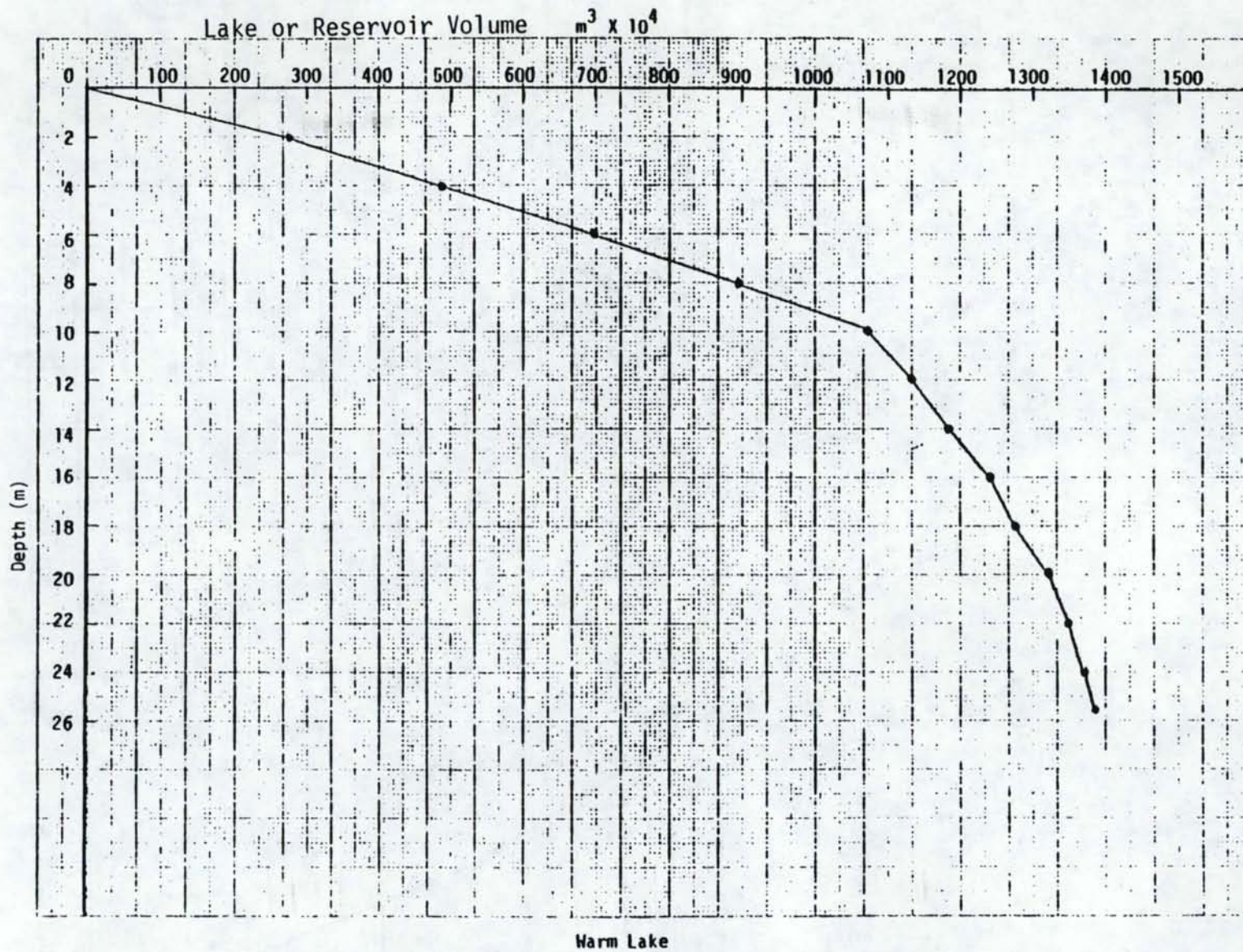


Figure D-2. Lake Hypsometric Curves (continued)

D-113

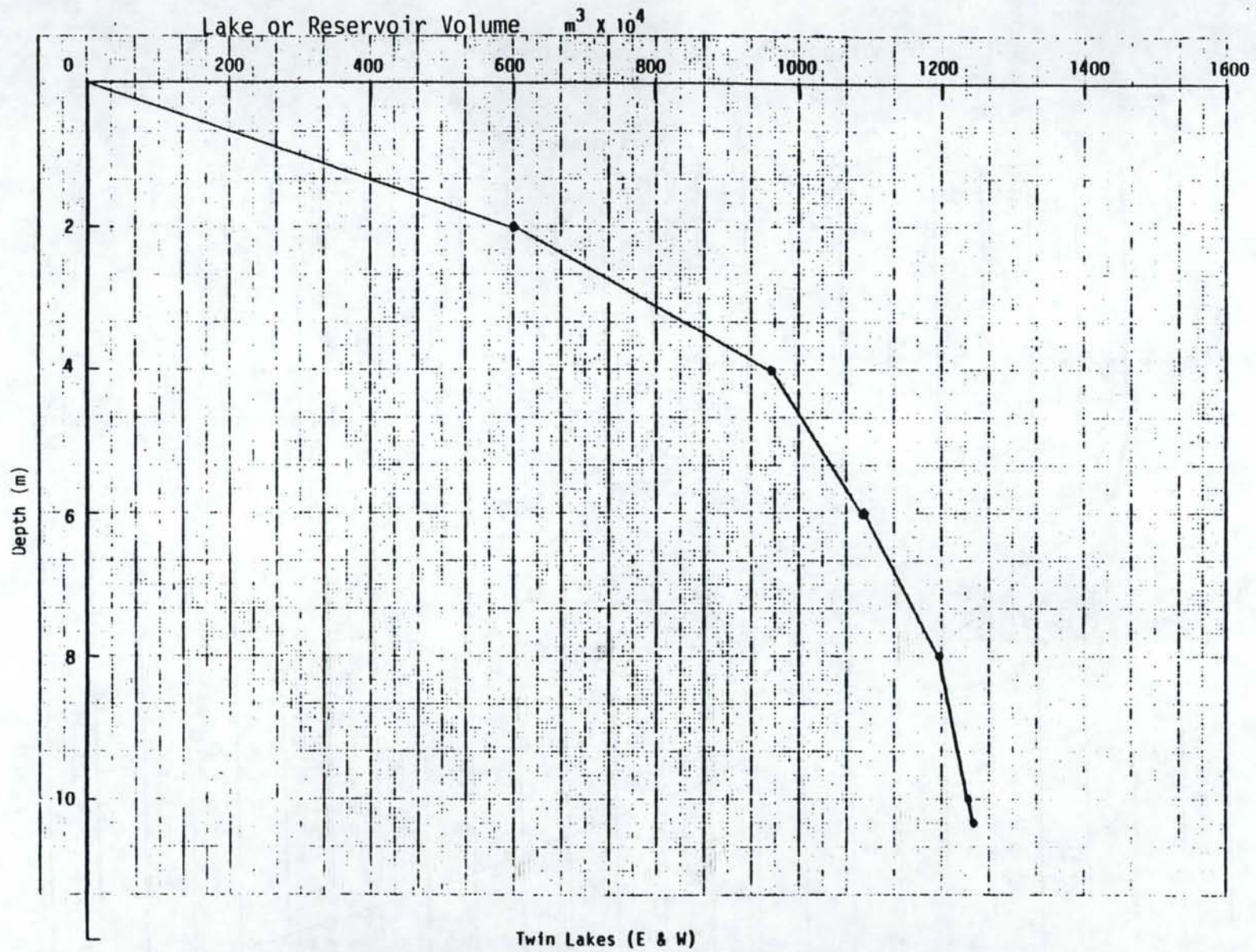


Figure D-2. Lake Hypsometric Curves (continued)

D-114

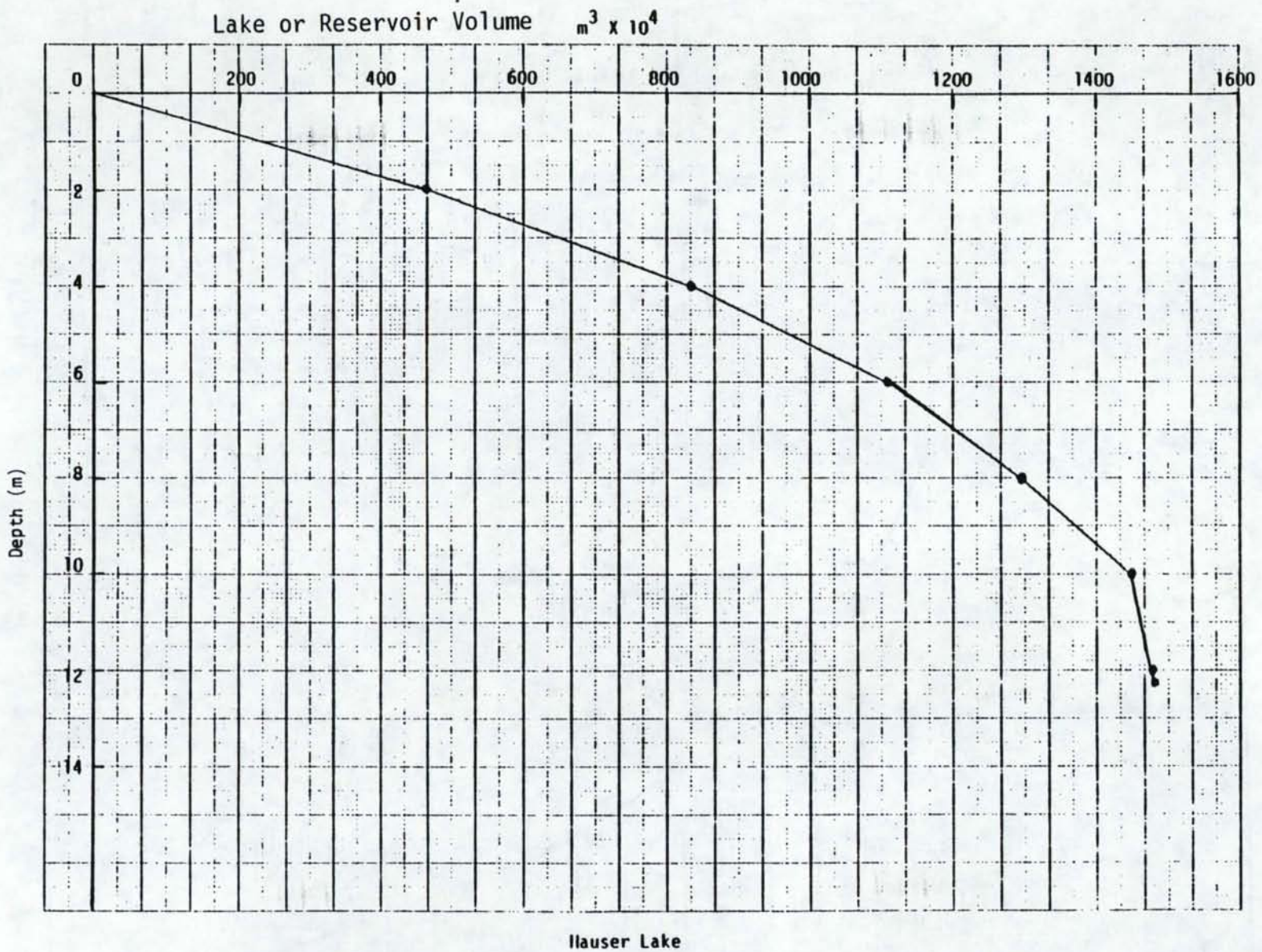


Figure D-2. Lake Hypsometric Curves (continued)



D-115

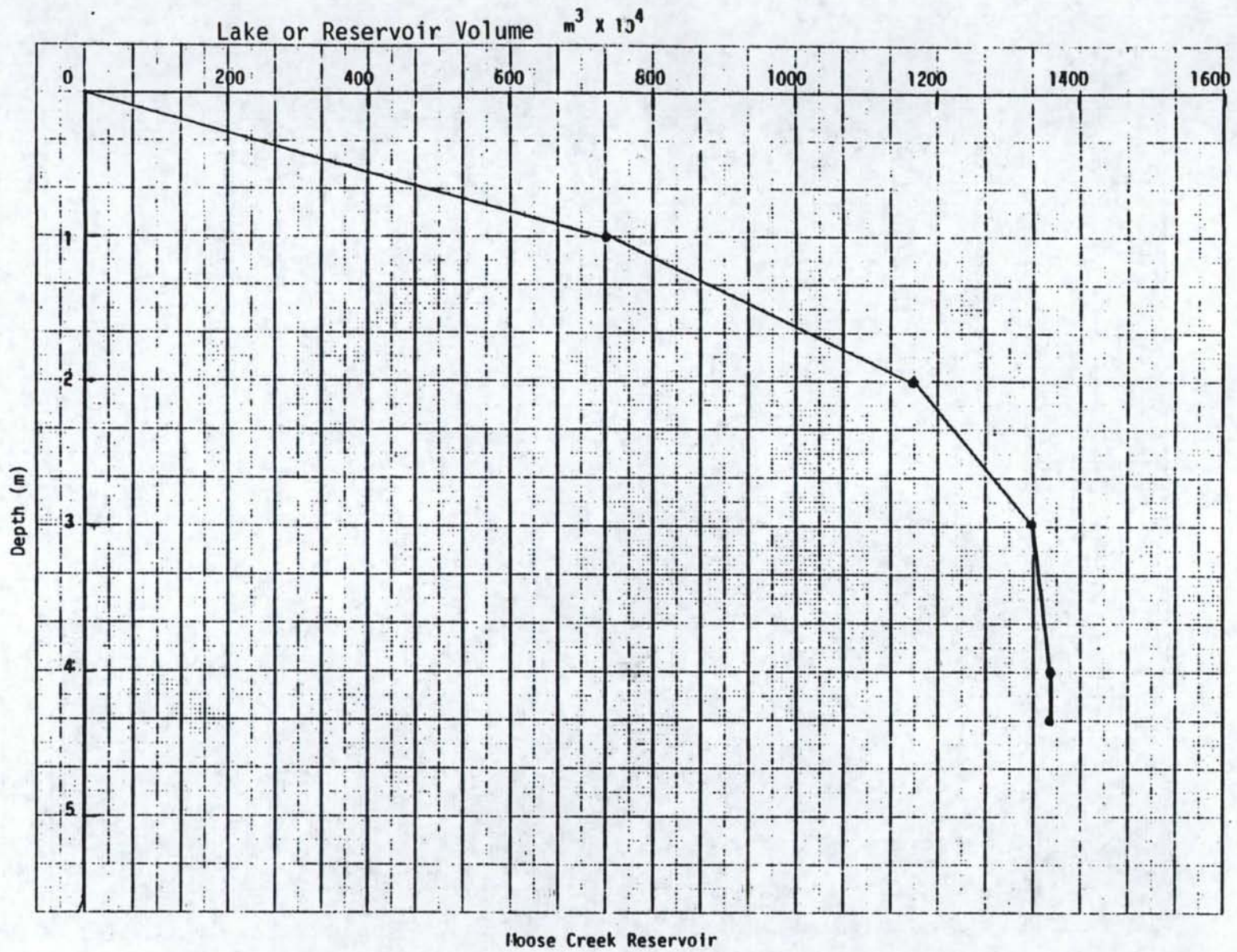
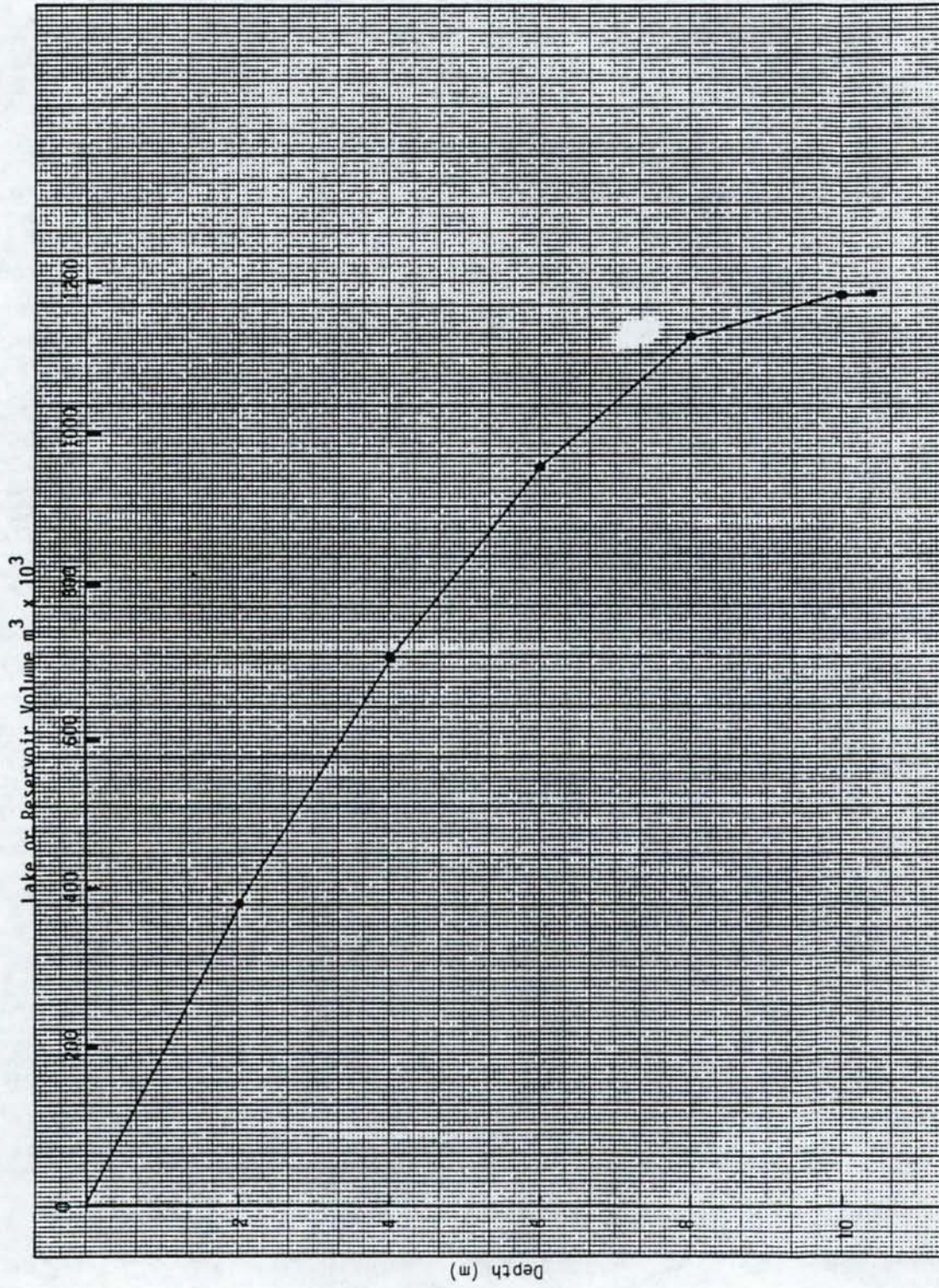


Figure D-2. Lake Hypsometric Curves (continued)



Round Lake

Figure D-2. Lake Hypsometric Curves

D-117

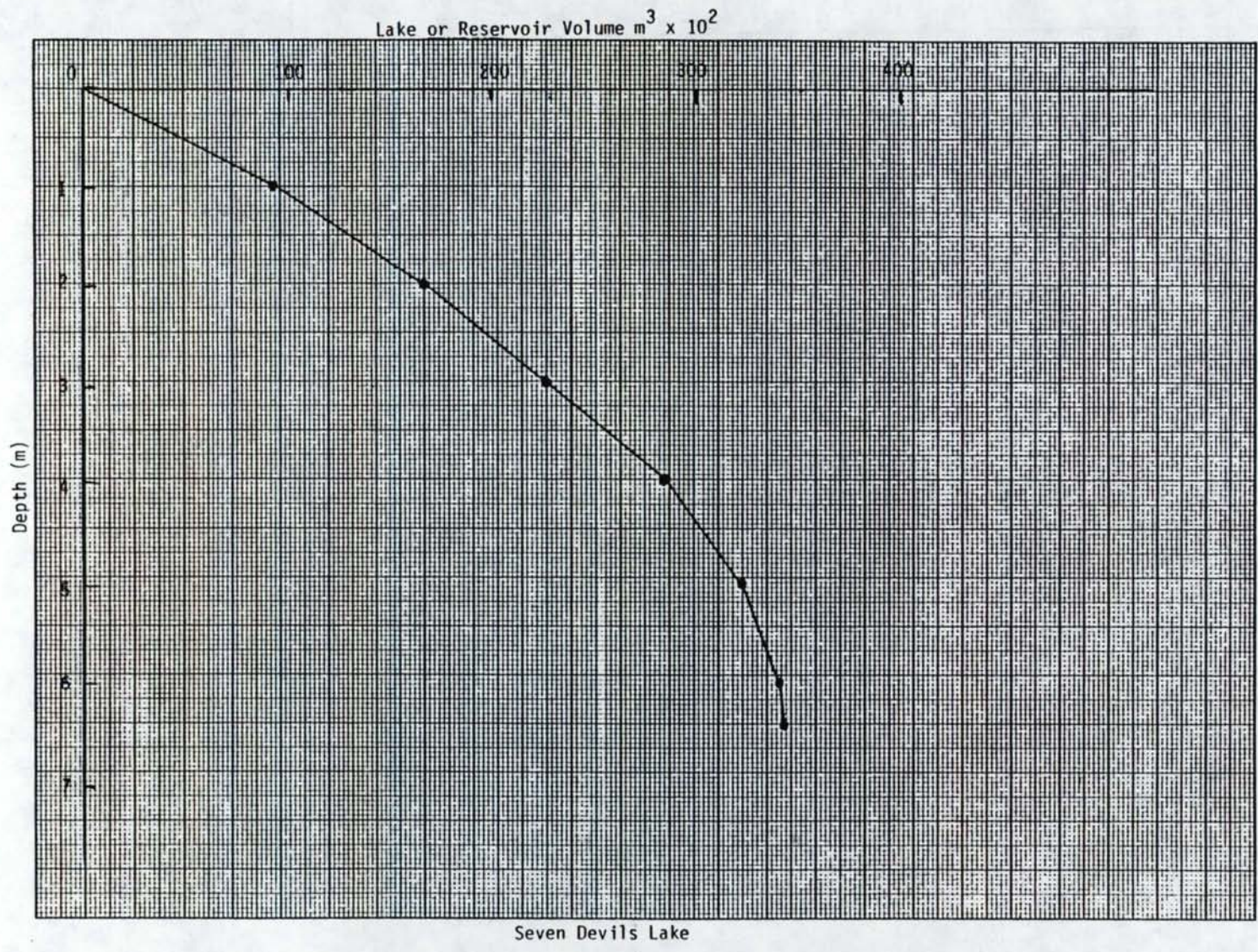
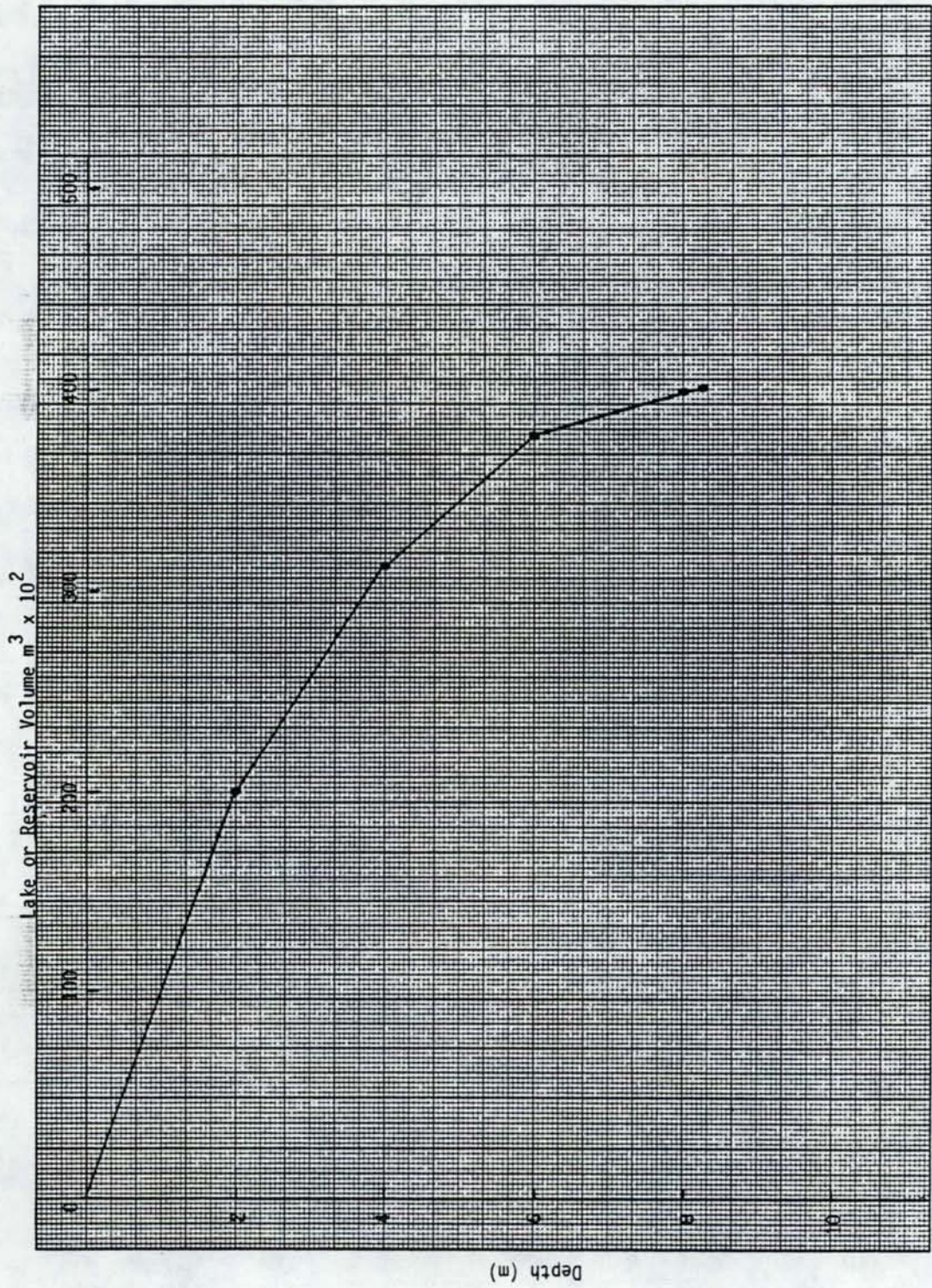


Figure D-2. Lake Hypsometric Curves



Lower Bernard Lake

Figure D-2. Lake Hypsometric Curves

D-119

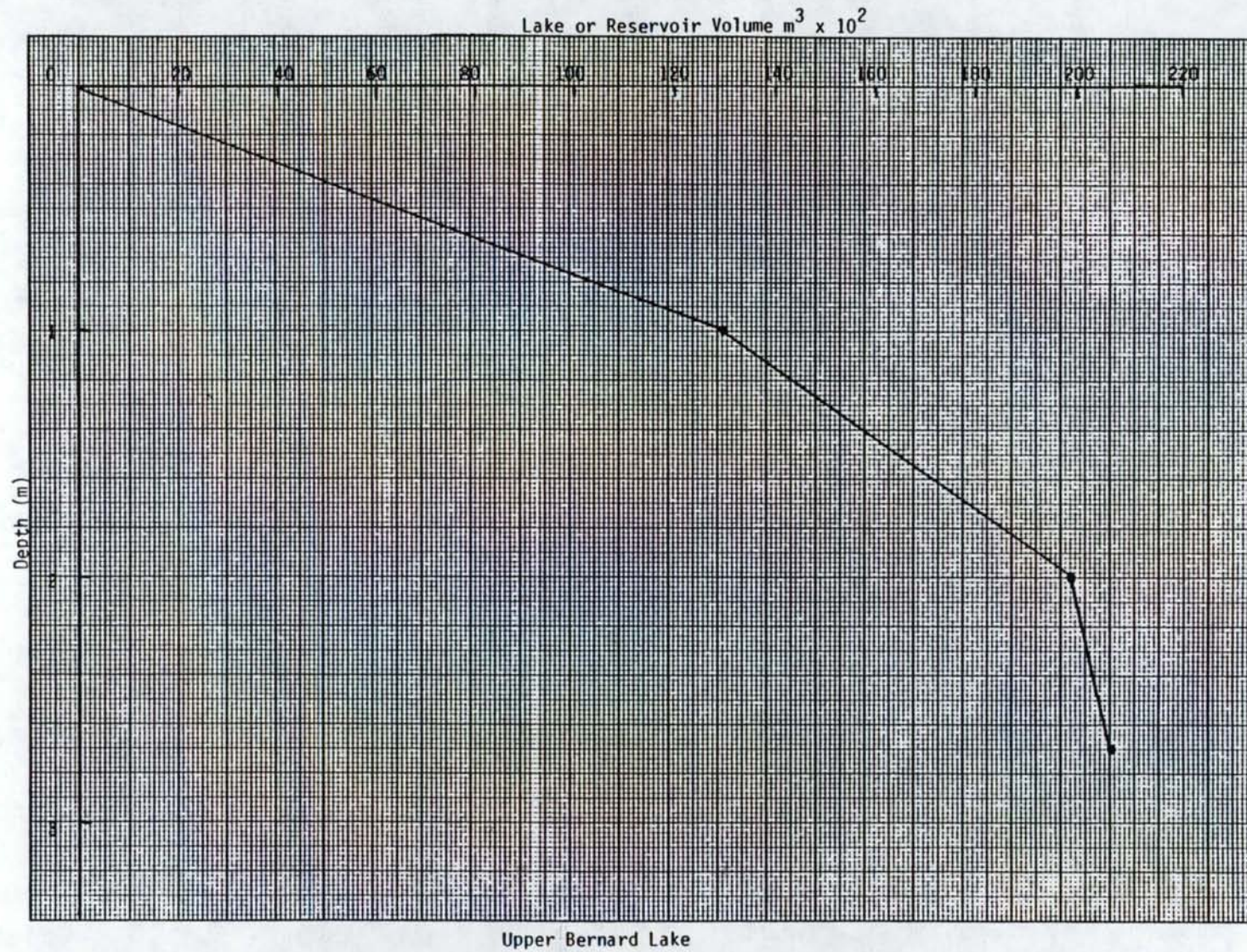
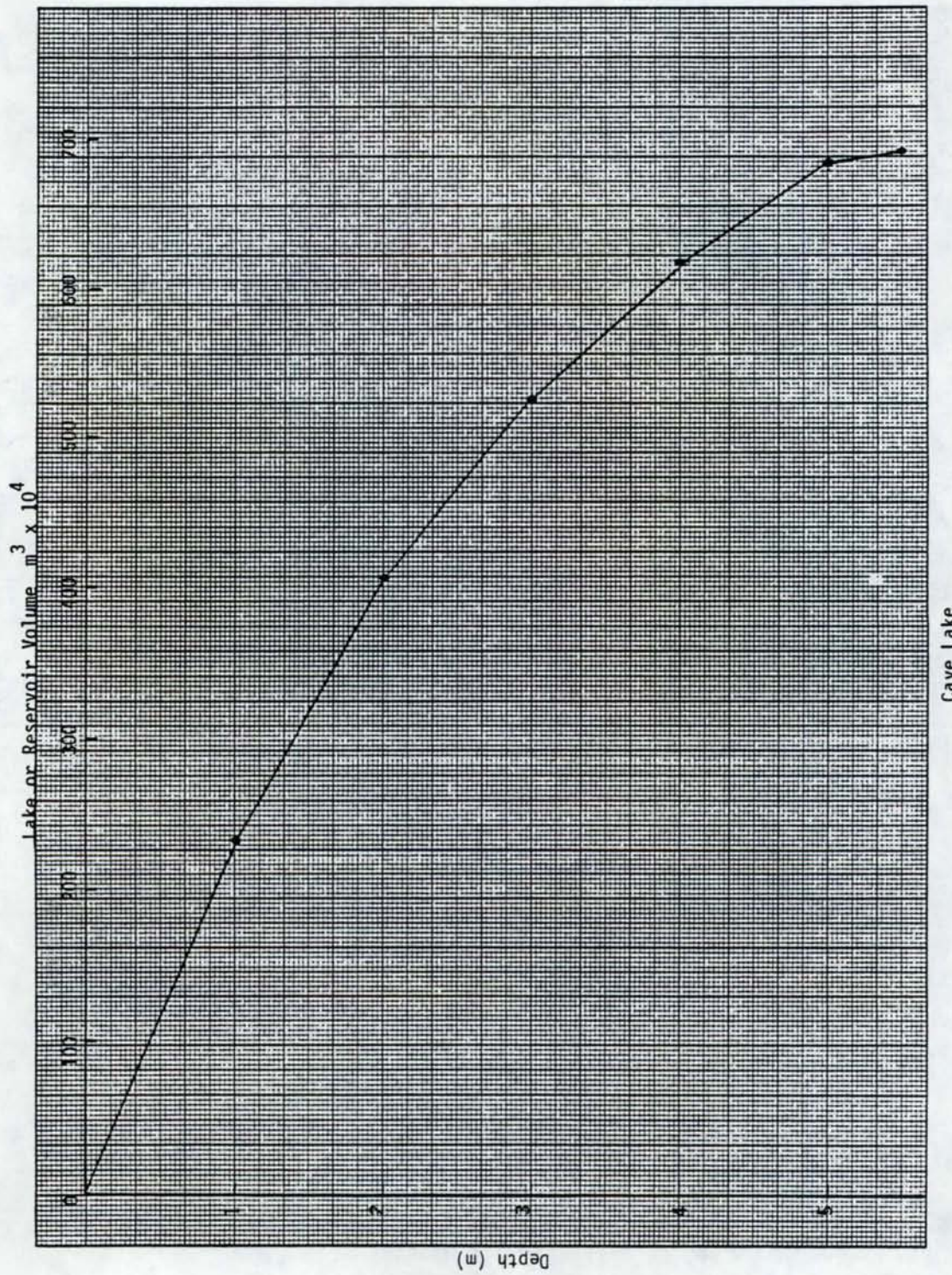


Figure D-2. Lake Hypsometric Curves



Cave Lake

Figure D-2. Lake Hypsometric Curves

D-121

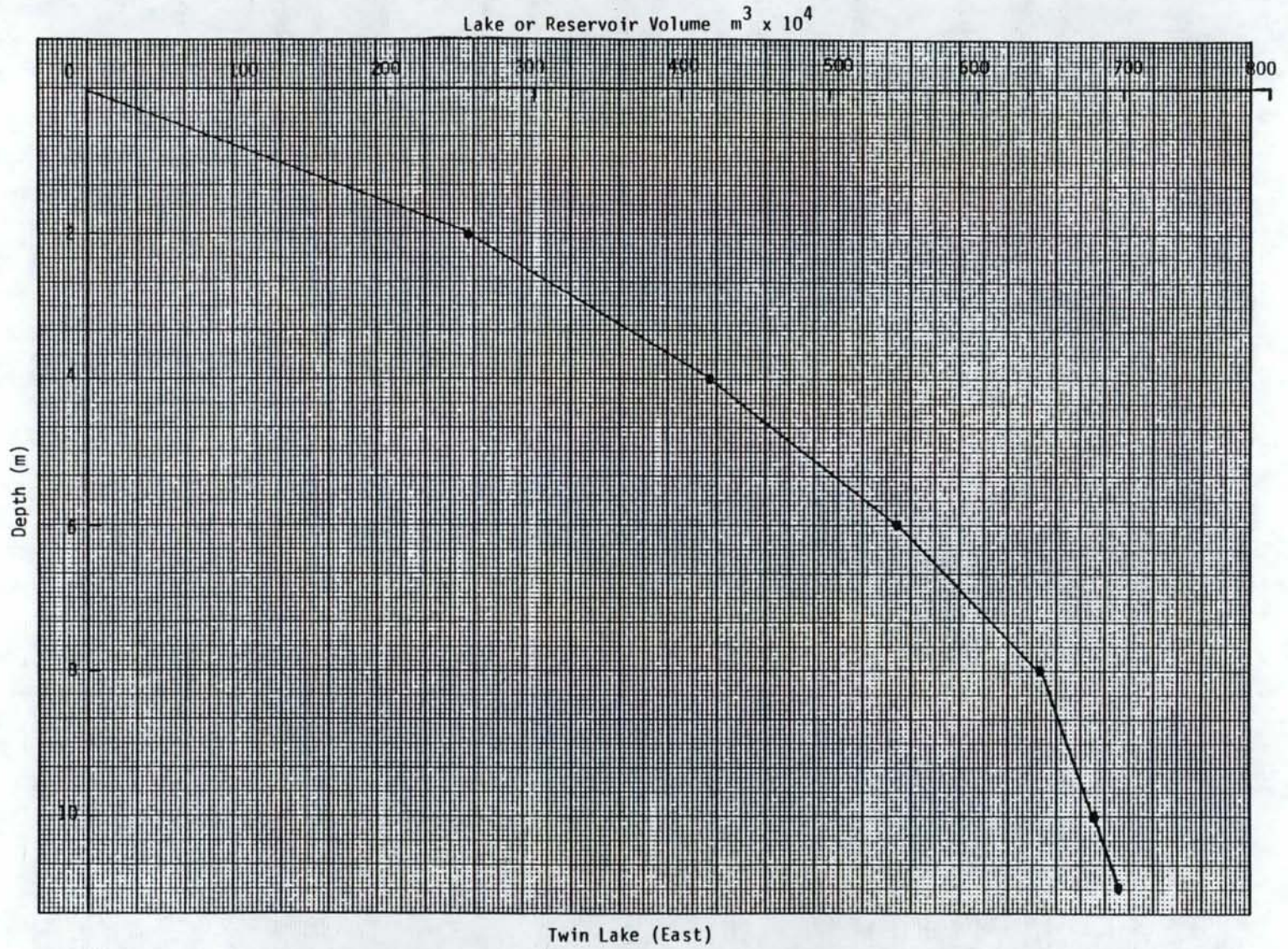


Figure D-2. Lake Hypsometric Curves

D-122

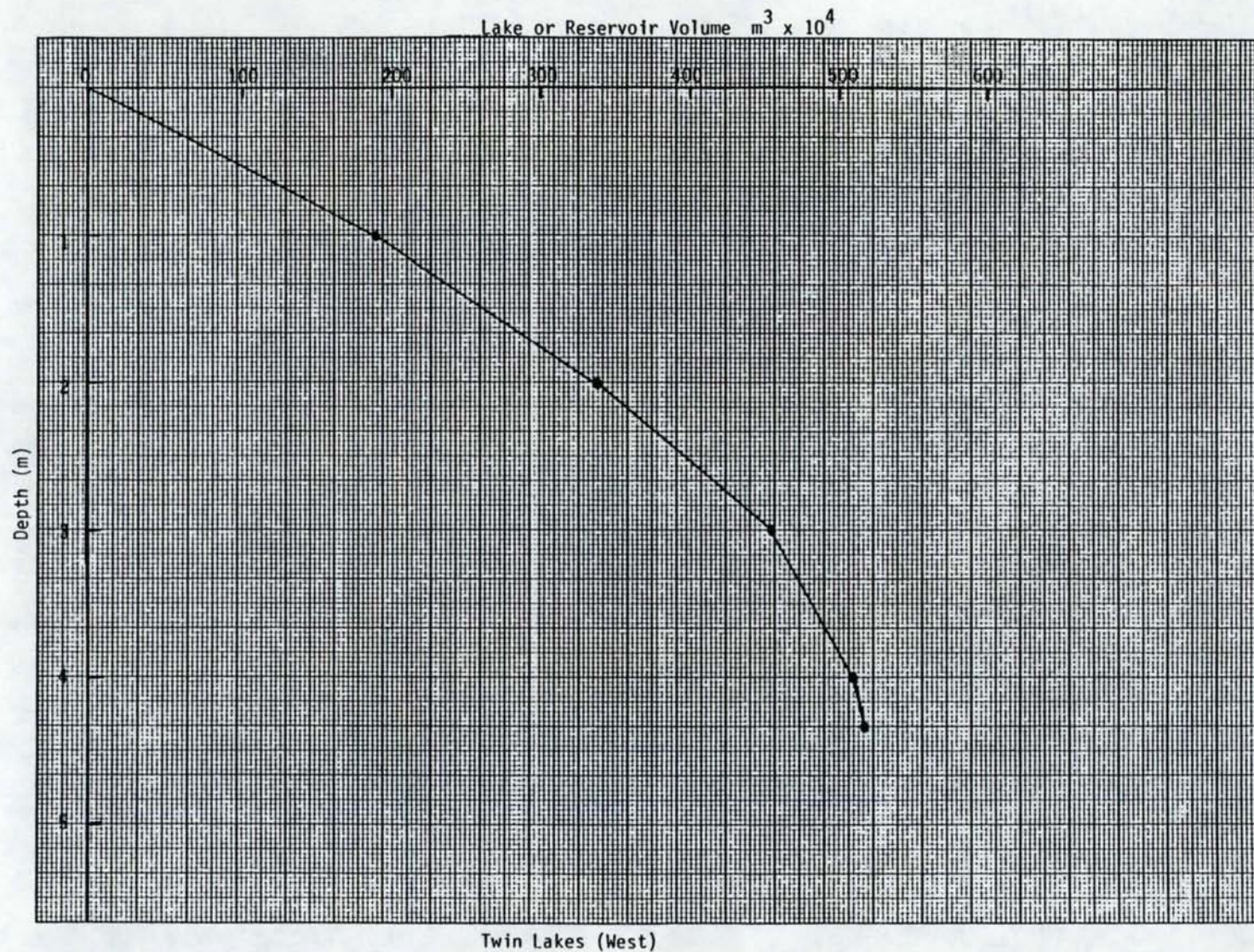


Figure D-2. Lake Hypsometric Curves



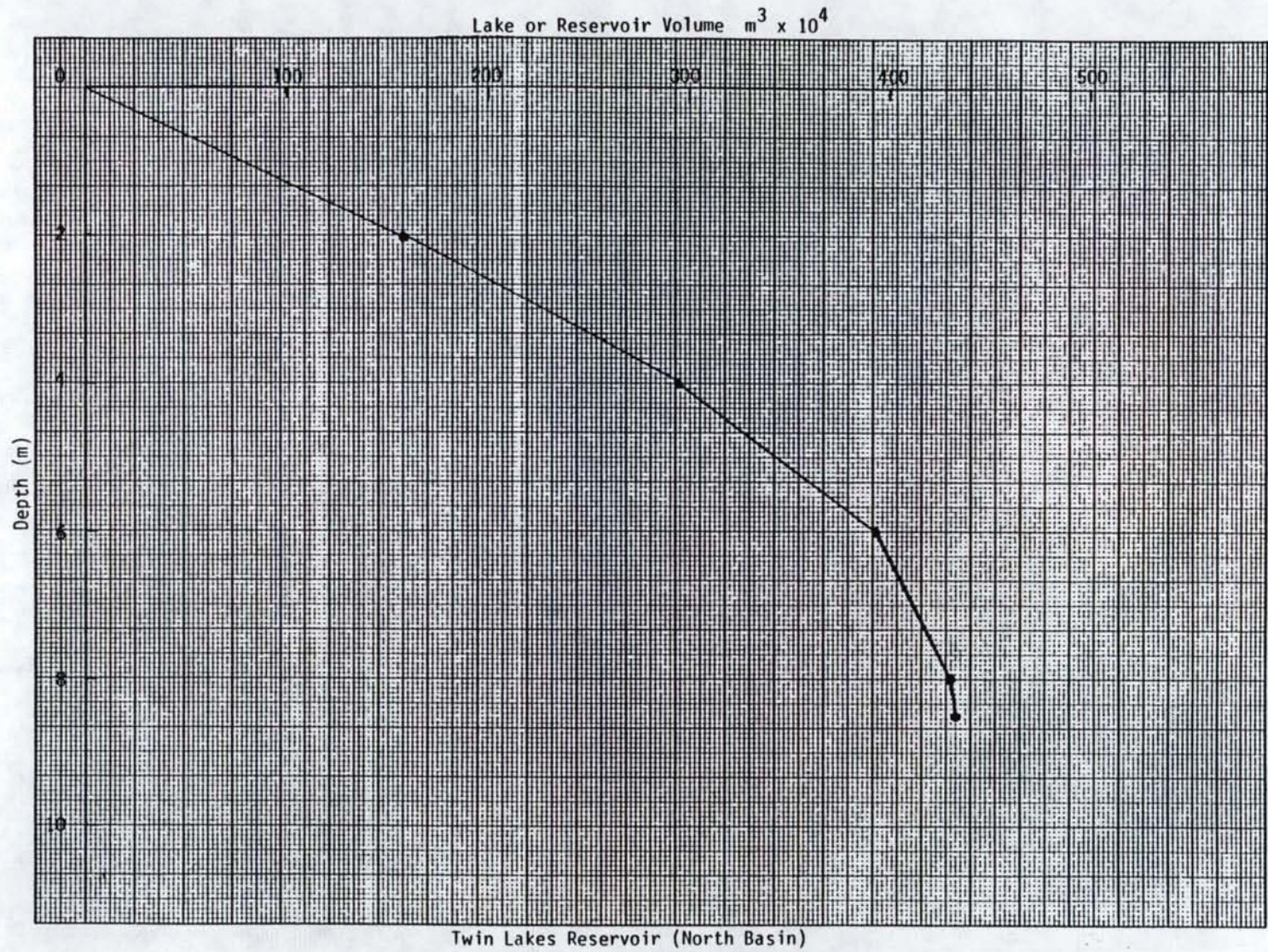


Figure D-2. Lake Hypsometric Curves

D-124

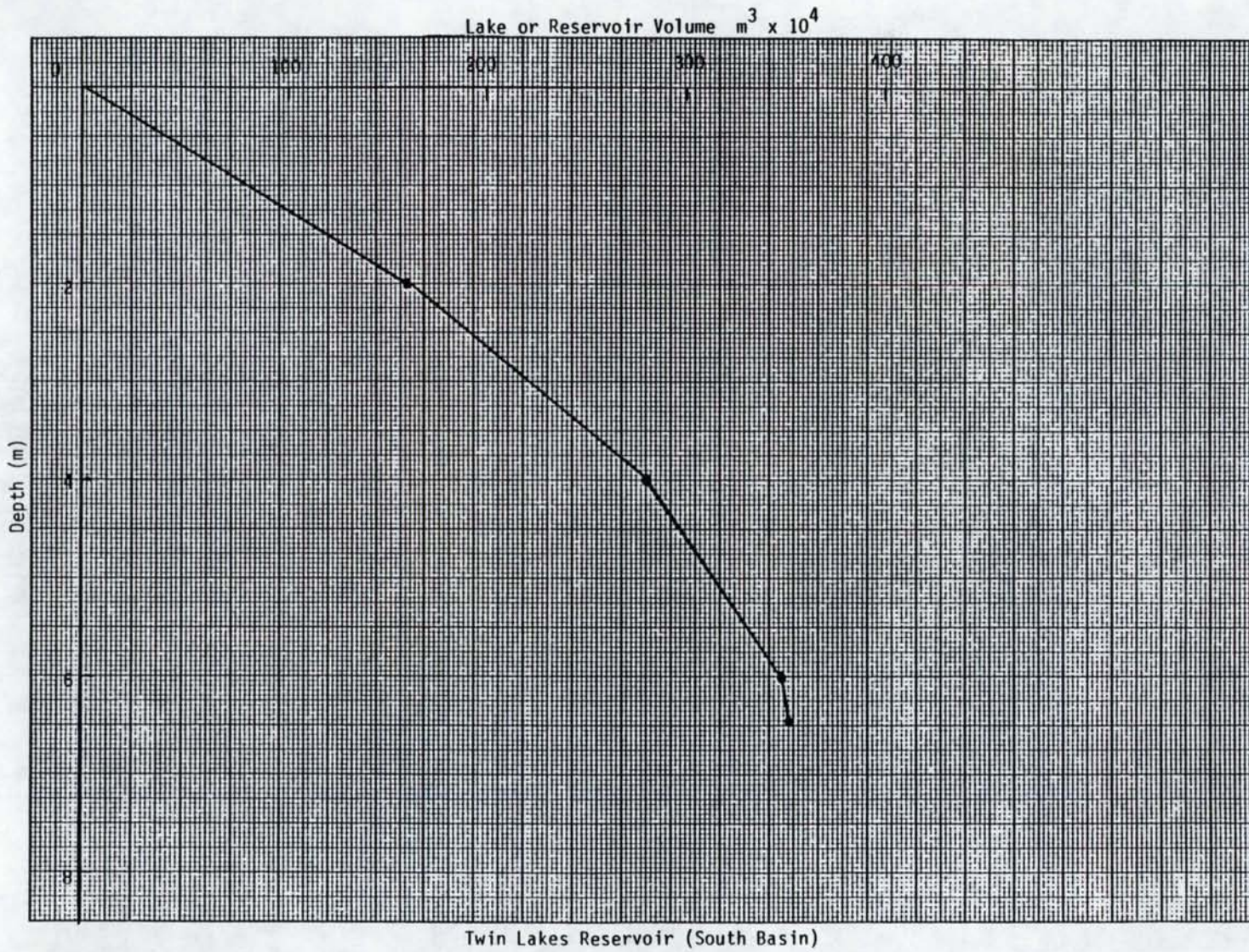


Figure D-2. Lake Hypsometric Curves

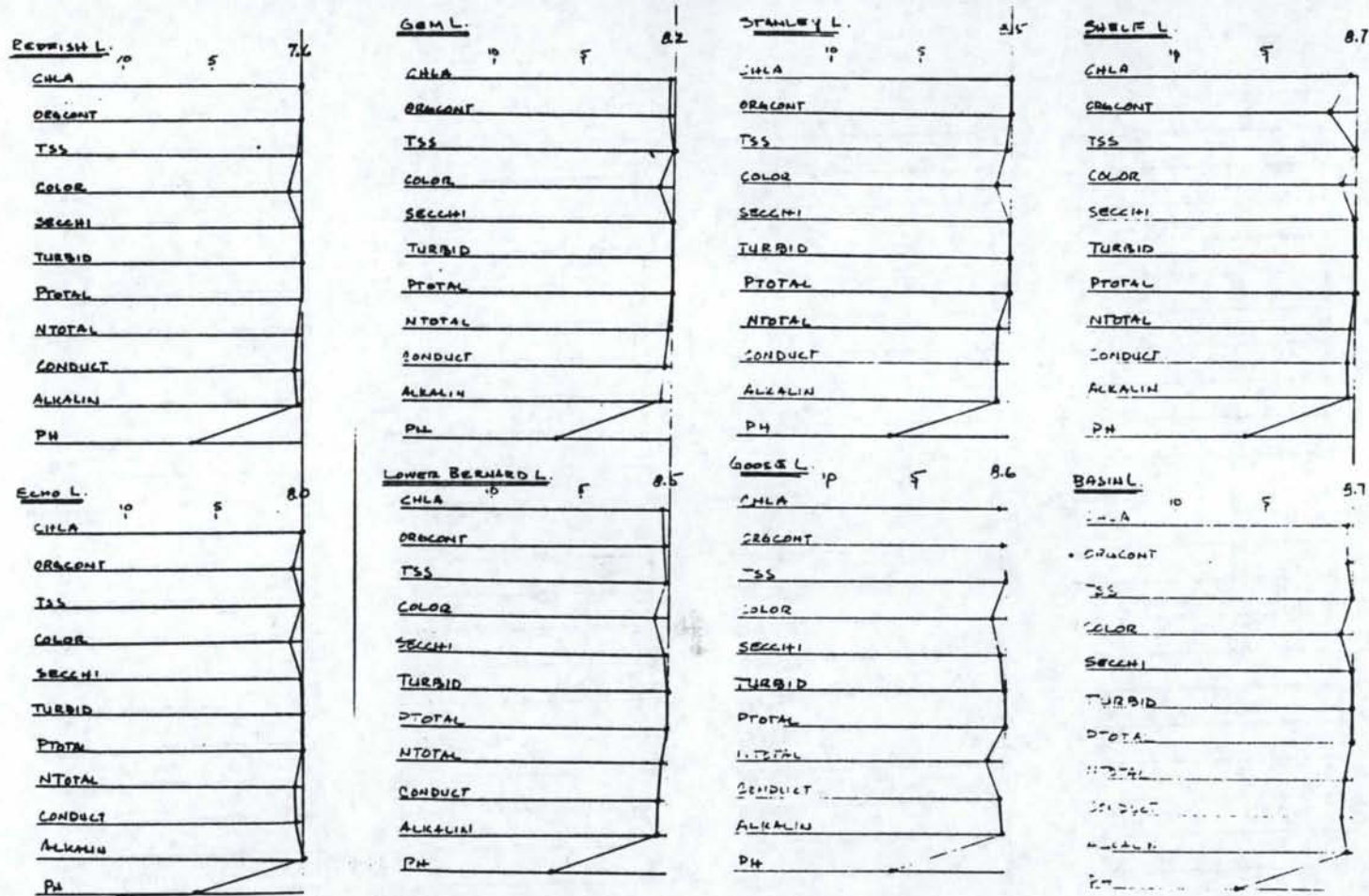


Figure D-3. Lake Factor Profiles for Eleven Water Quality Variables

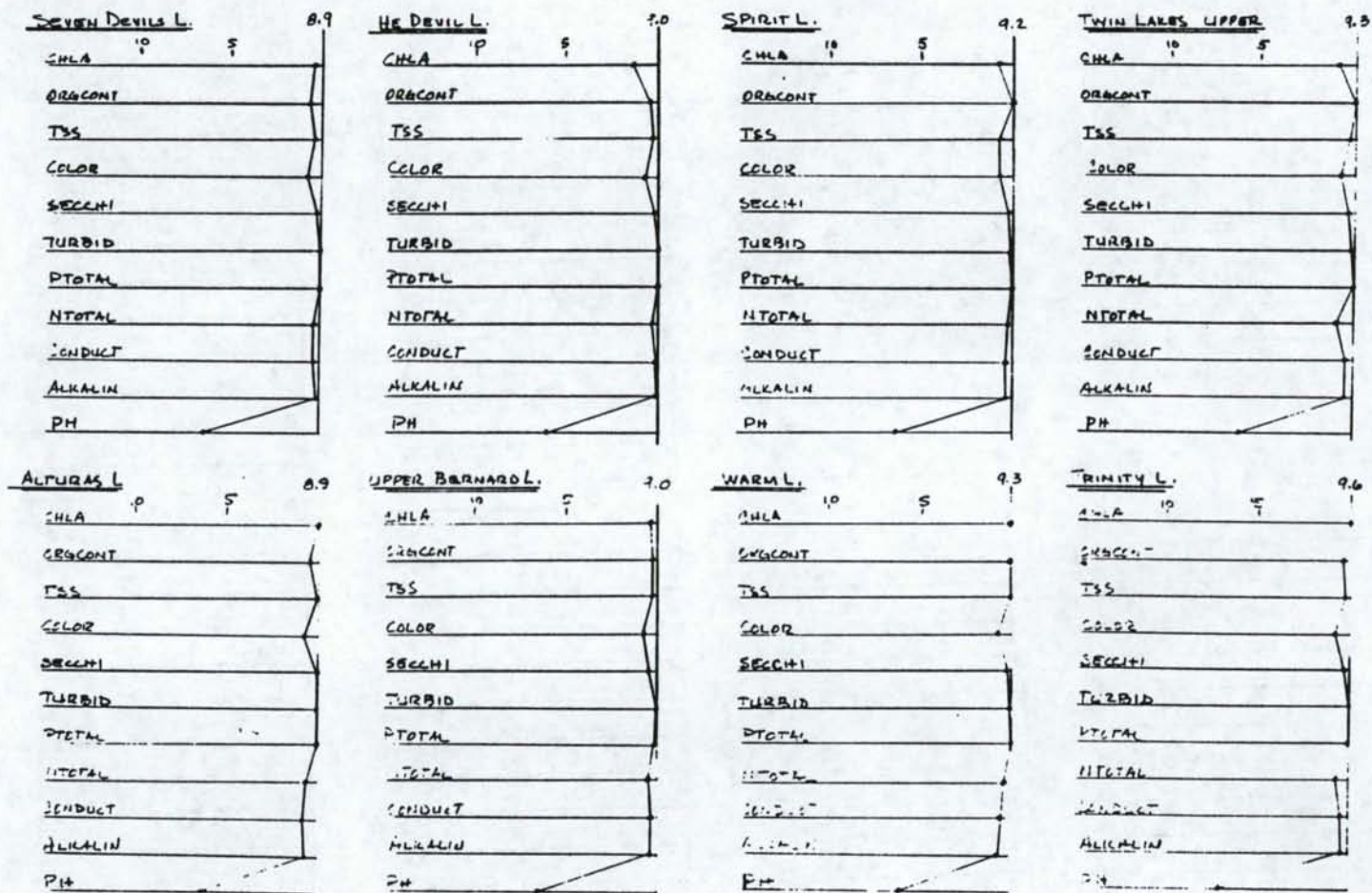


Figure D-3. Lake Factor Profiles for Eleven Water Quality Variables (continued)



Figure D-3. Lake Factor Profiles for Eleven Water Quality Variables (continued)

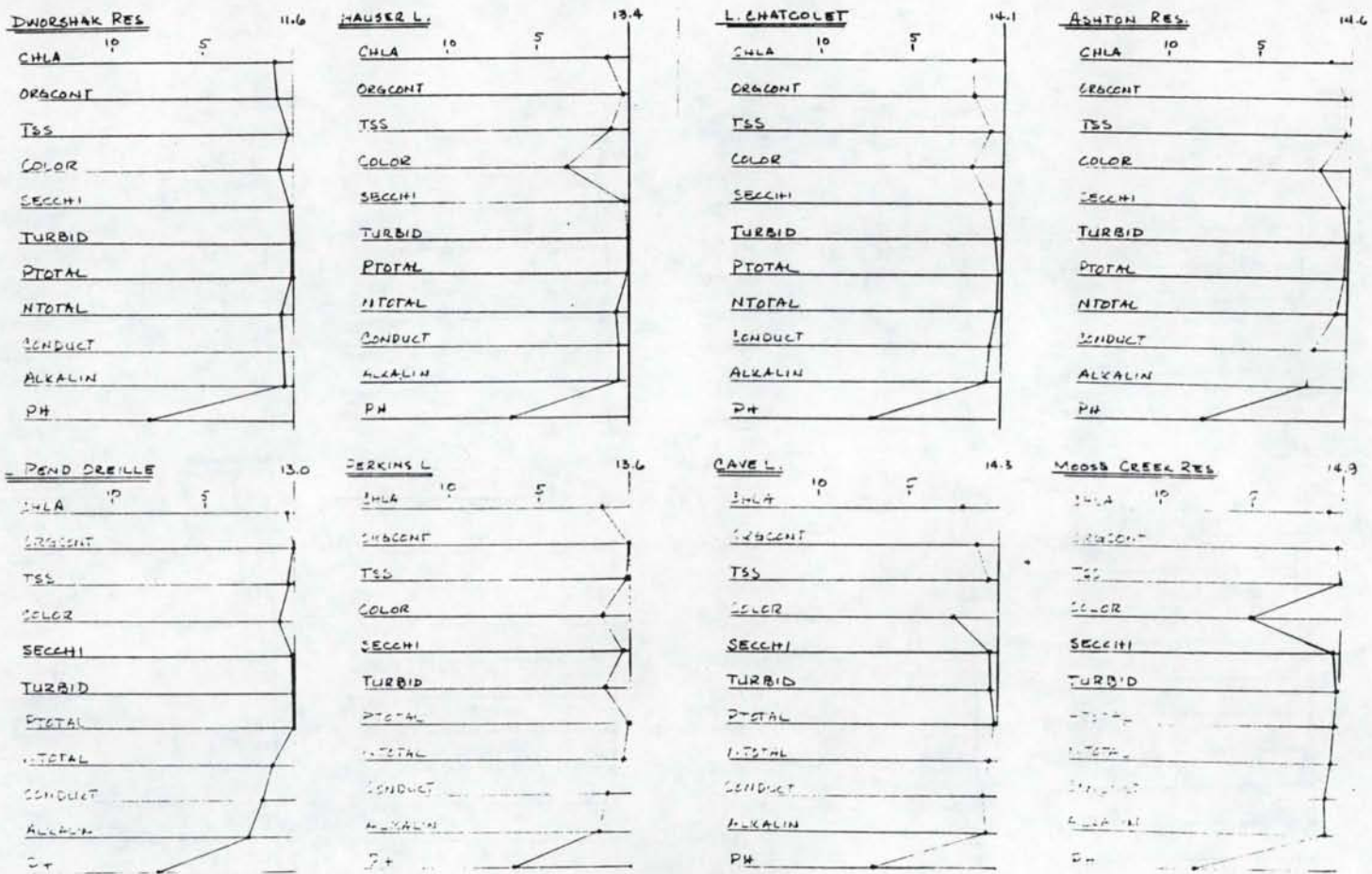
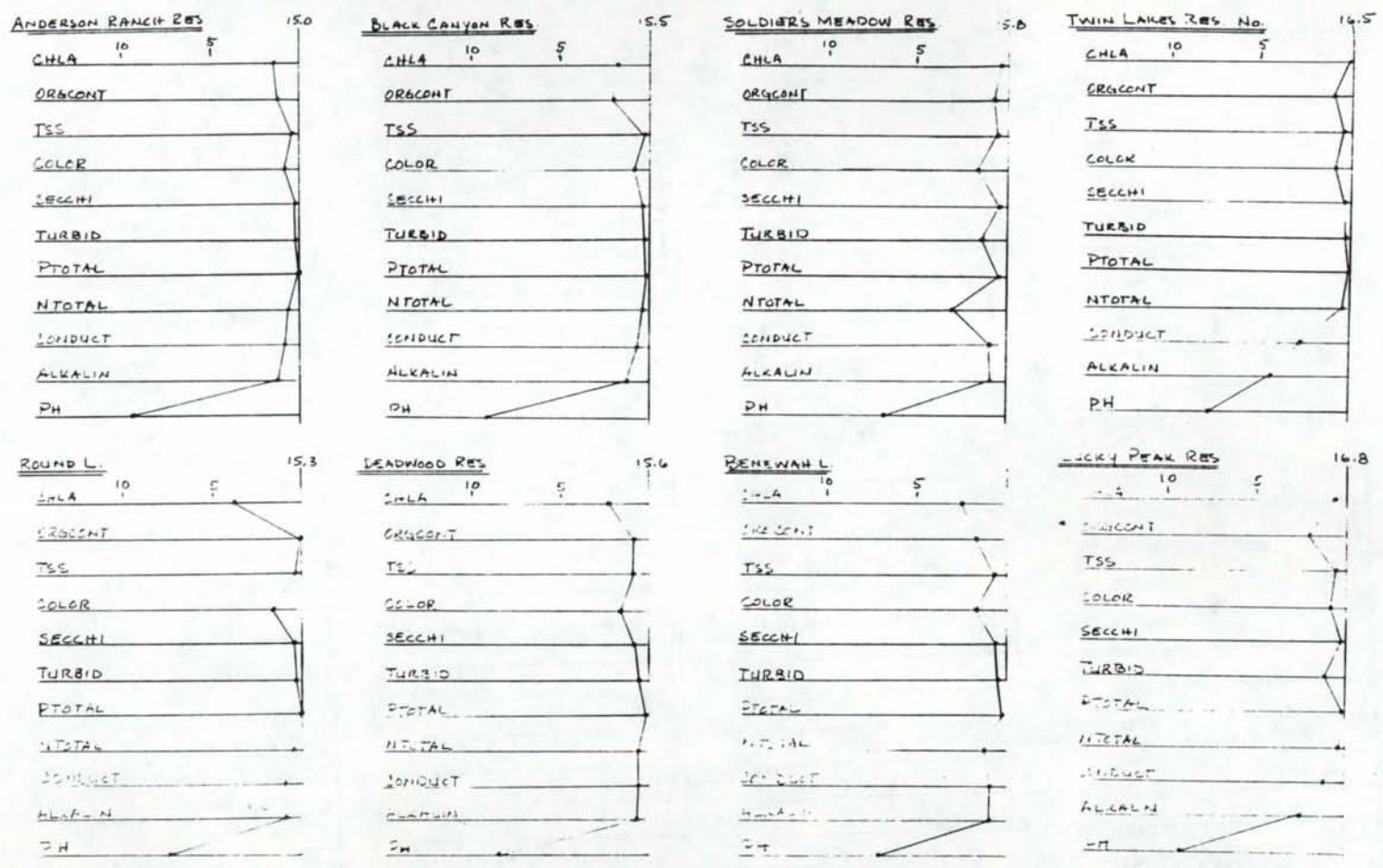


Figure D-3. Lake Factor Profiles for Eleven Water Quality Variables (continued)

D-128



D-129

Figure D-3. Lake Factor Profiles for Eleven Water Quality Variables (continued)

D-130

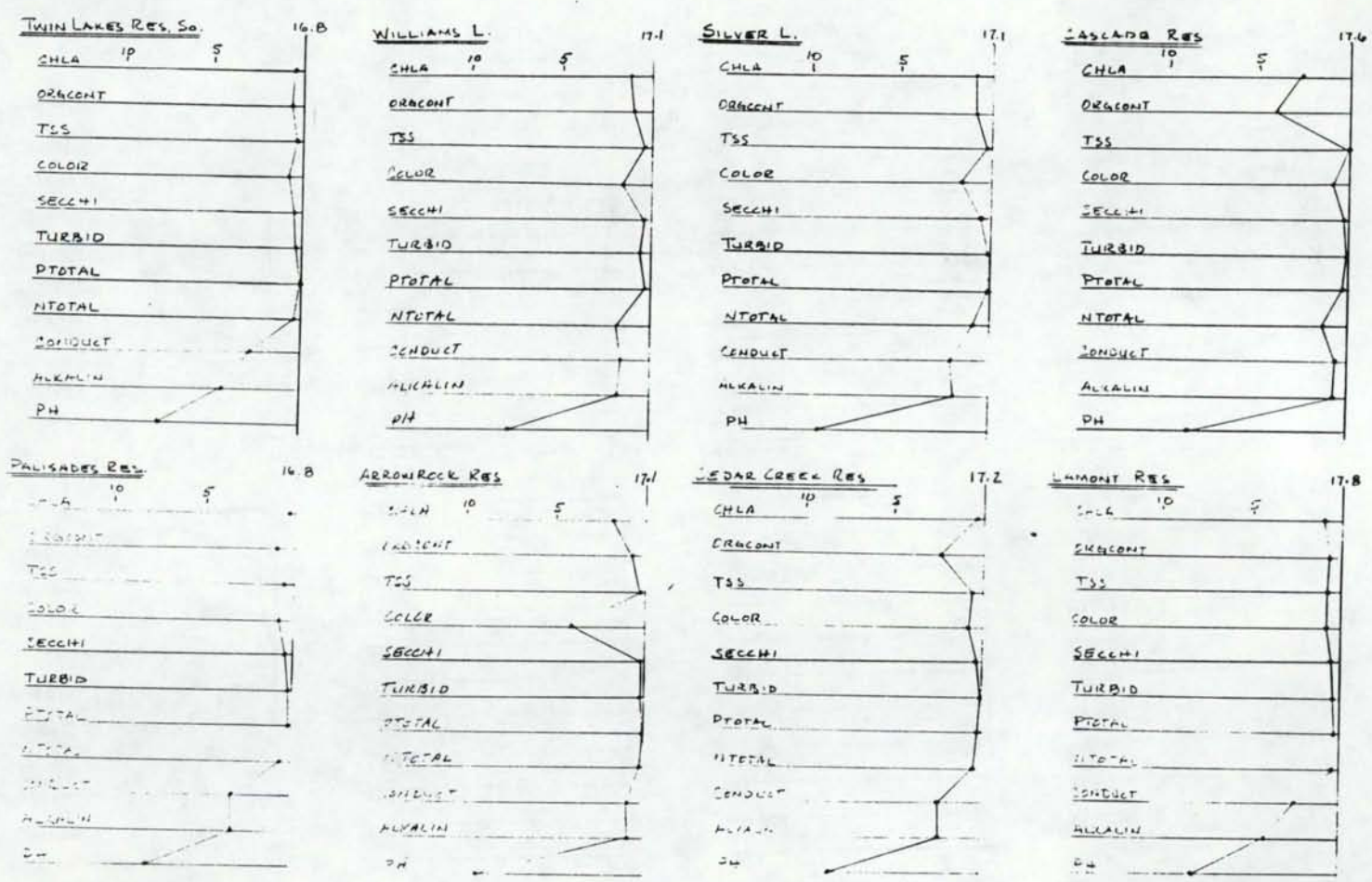


Figure D-3. Lake Factor Profiles for Eleven Water Quality Variables (continued)



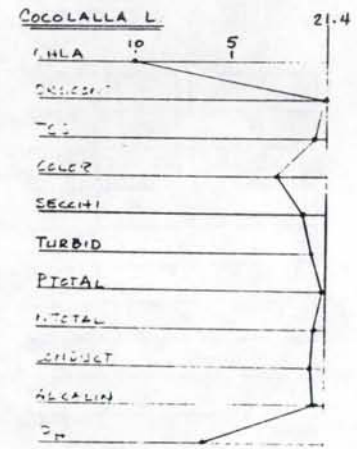
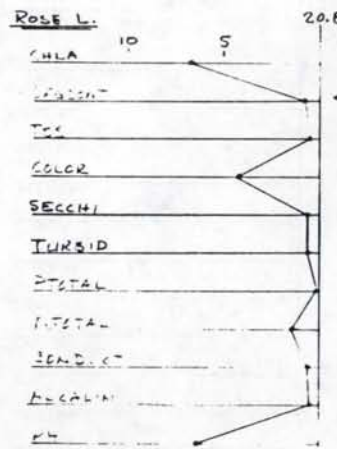
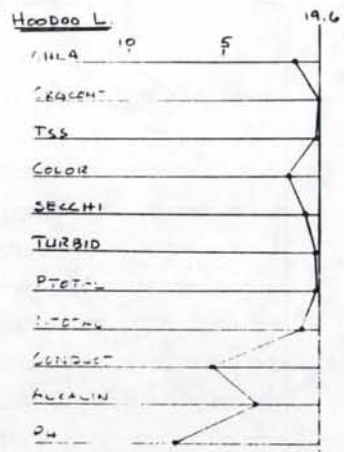
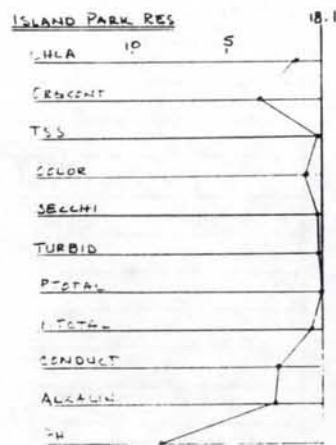
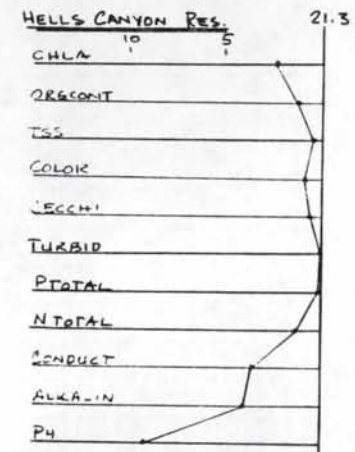
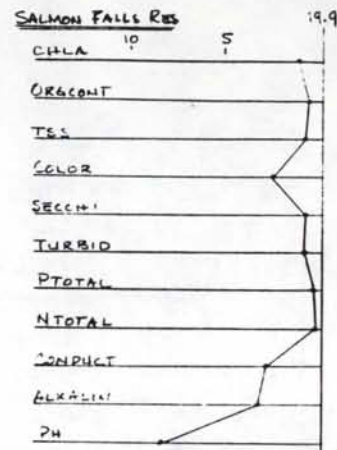
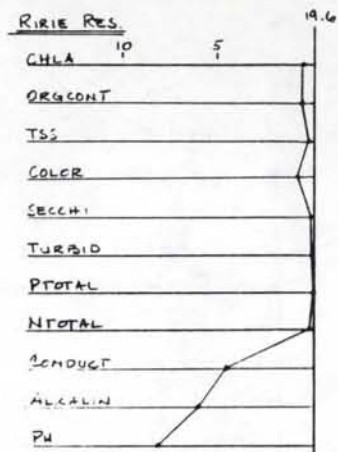
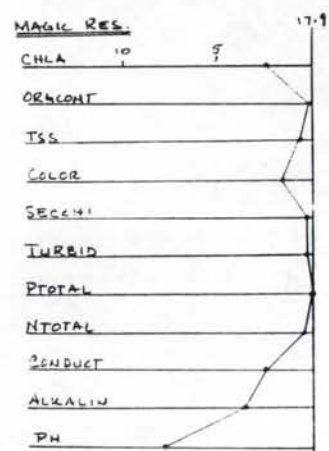


Figure D-3. Lake Factor Profiles for Eleven Water Quality Variables (continued)

D-132

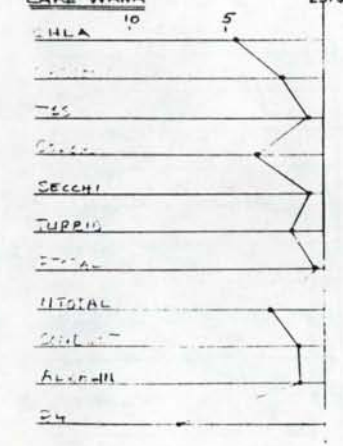
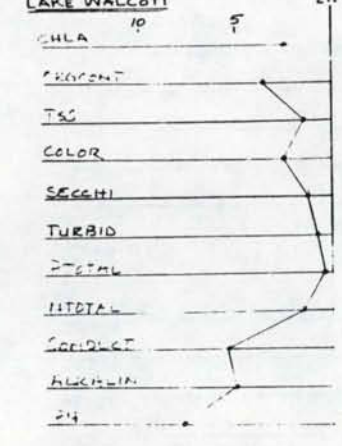
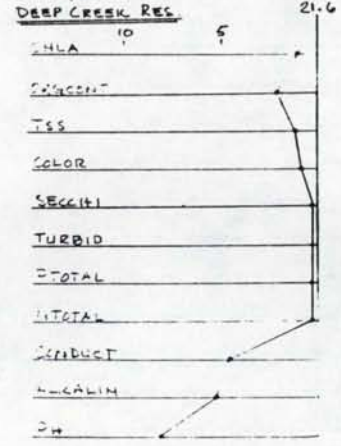
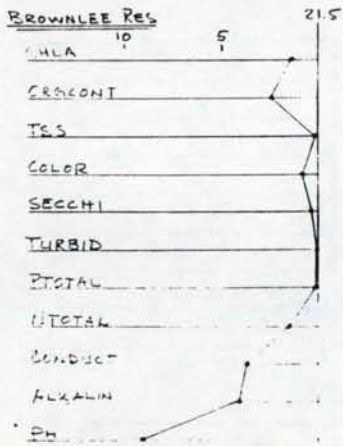
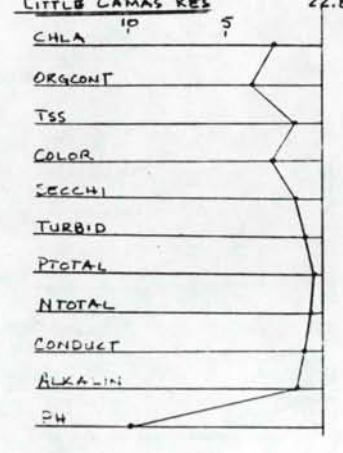
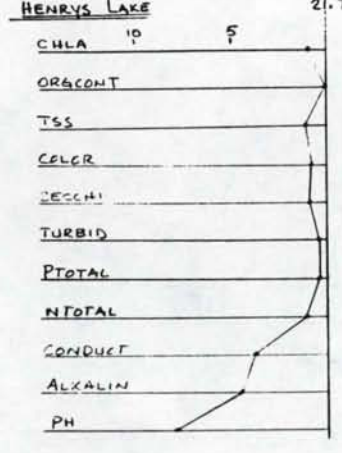
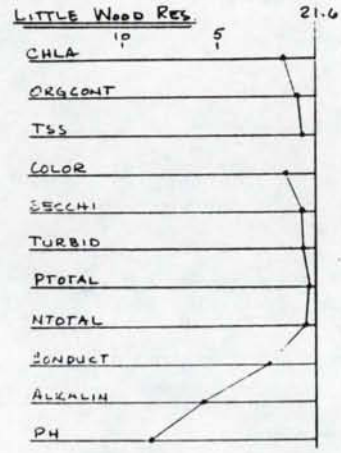
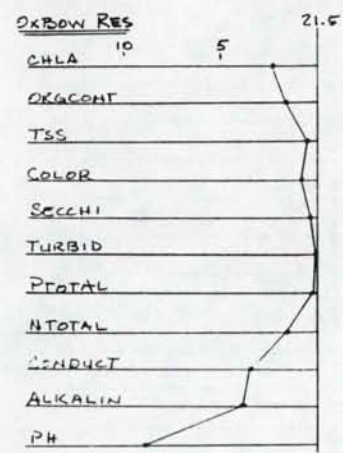


Figure D-3. Lake Factor Profiles for Eleven Water Quality Variables (continued)

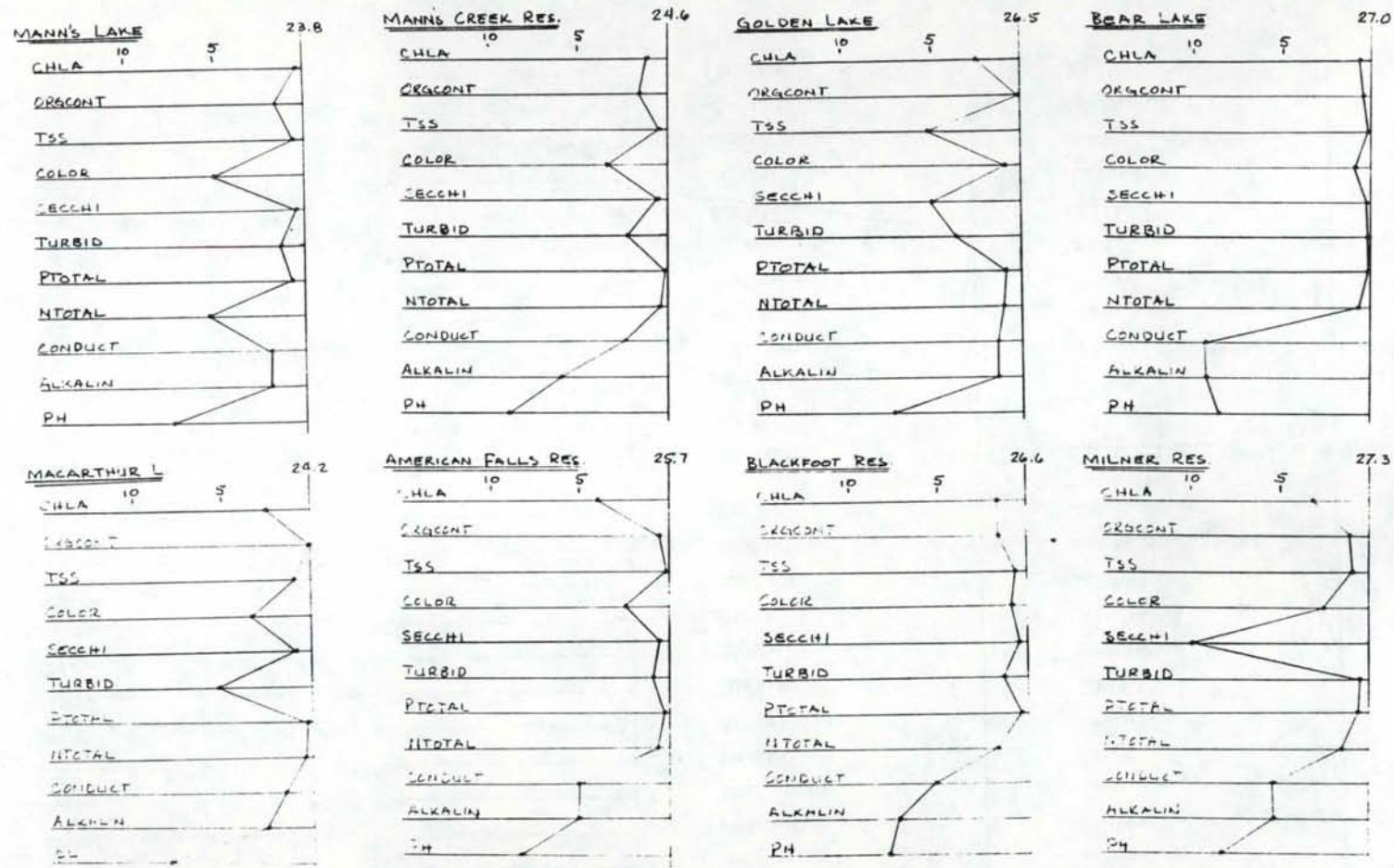


Figure D-3. Lake Factor Profiles for Eleven Water Quality Variables (continued)

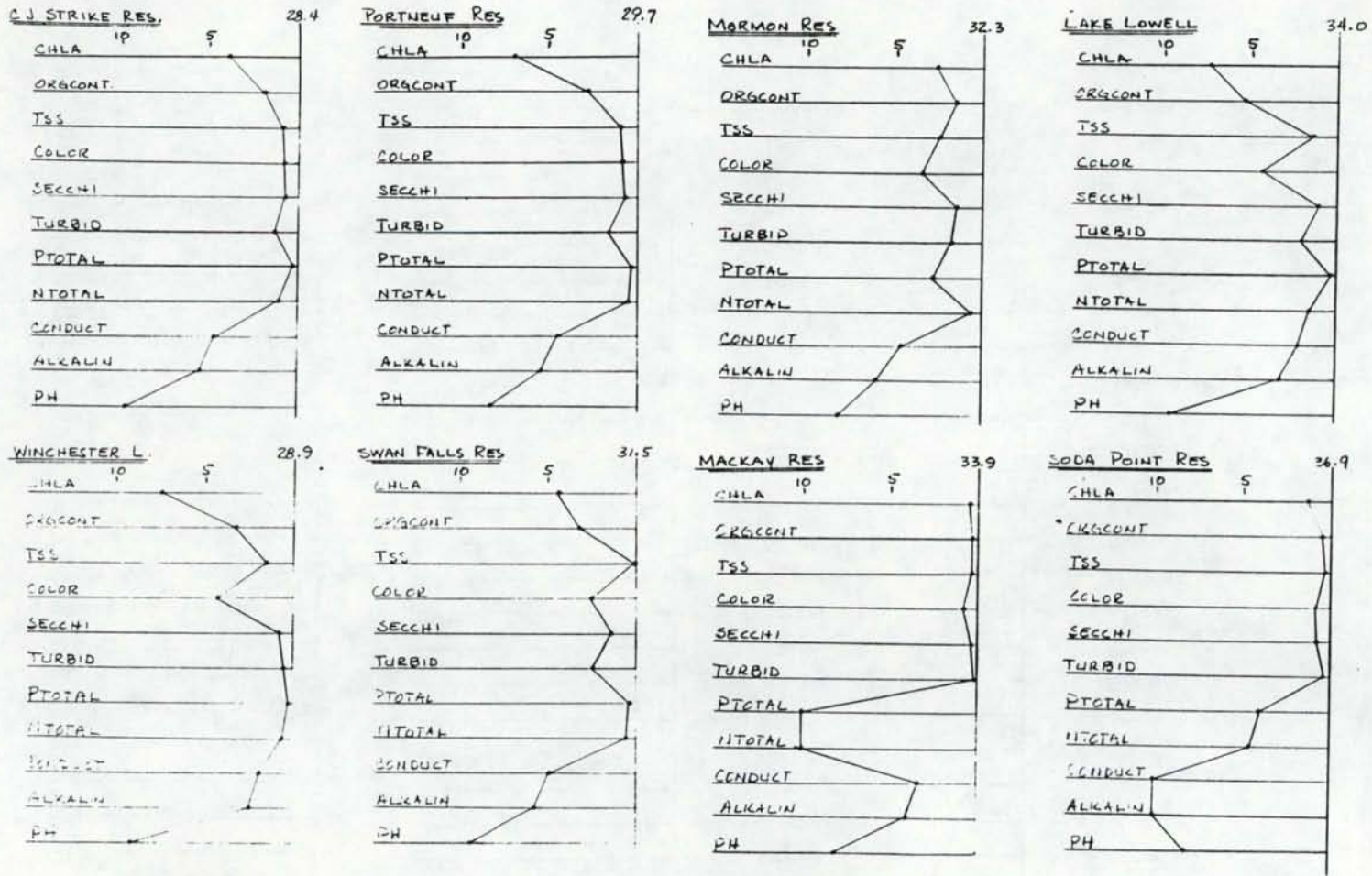


Figure D-3. Lake Factor Profiles for Eleven Water Quality Variables (continued)

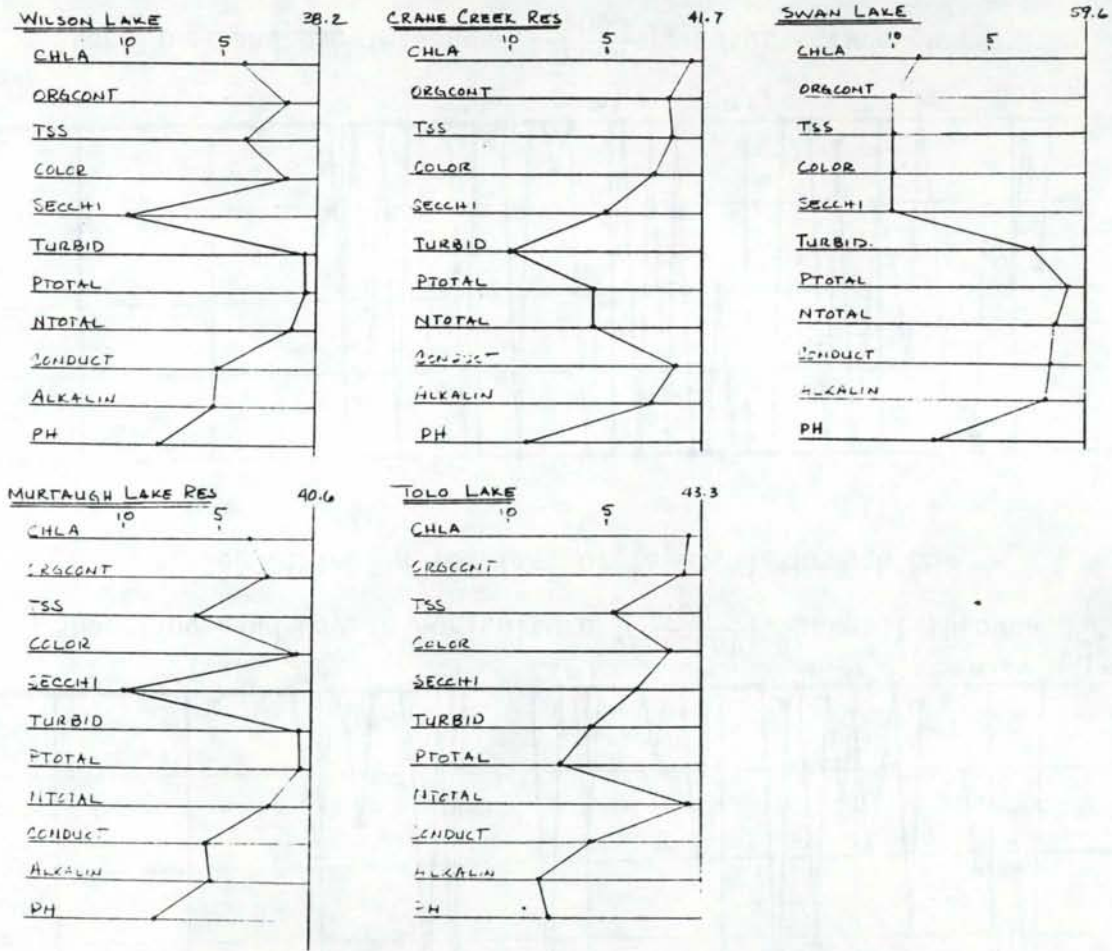
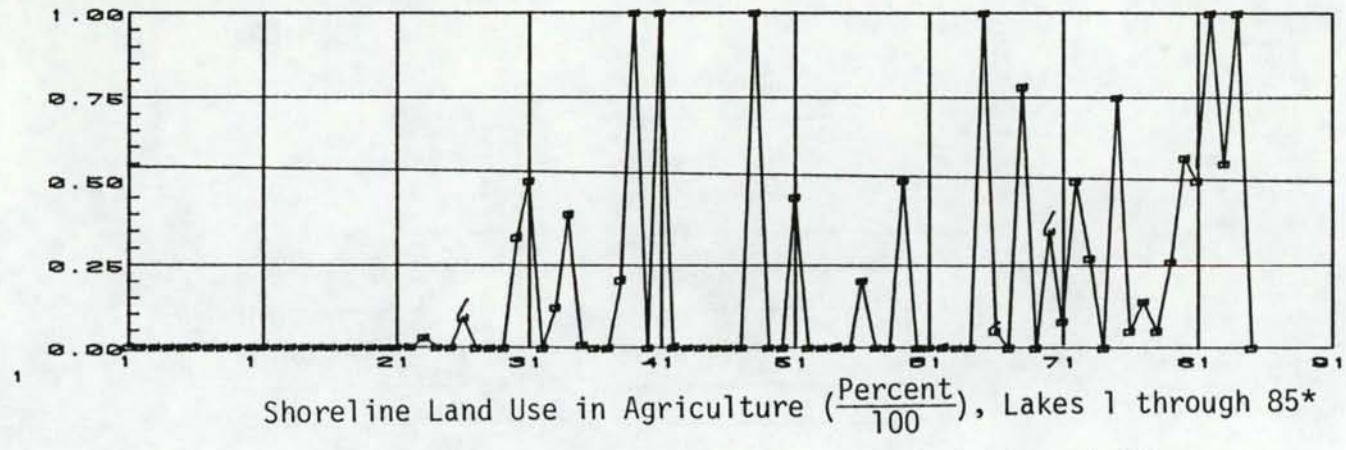


Figure D-3. Lake Factor Profiles for Eleven Water Quality Variables (continued)



\* See Table 3-4 for list of lakes, 1 through 85

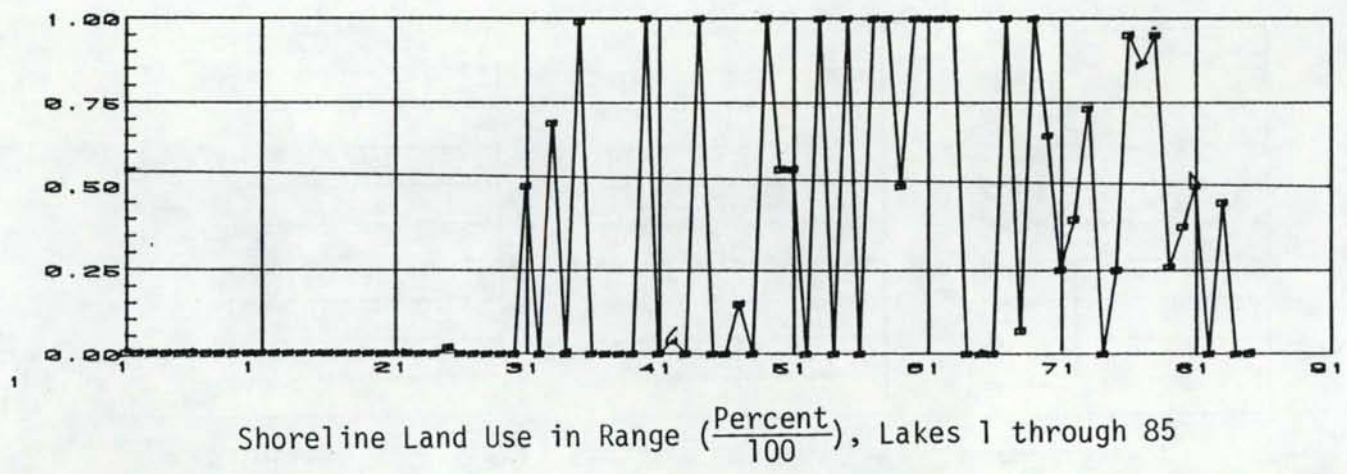
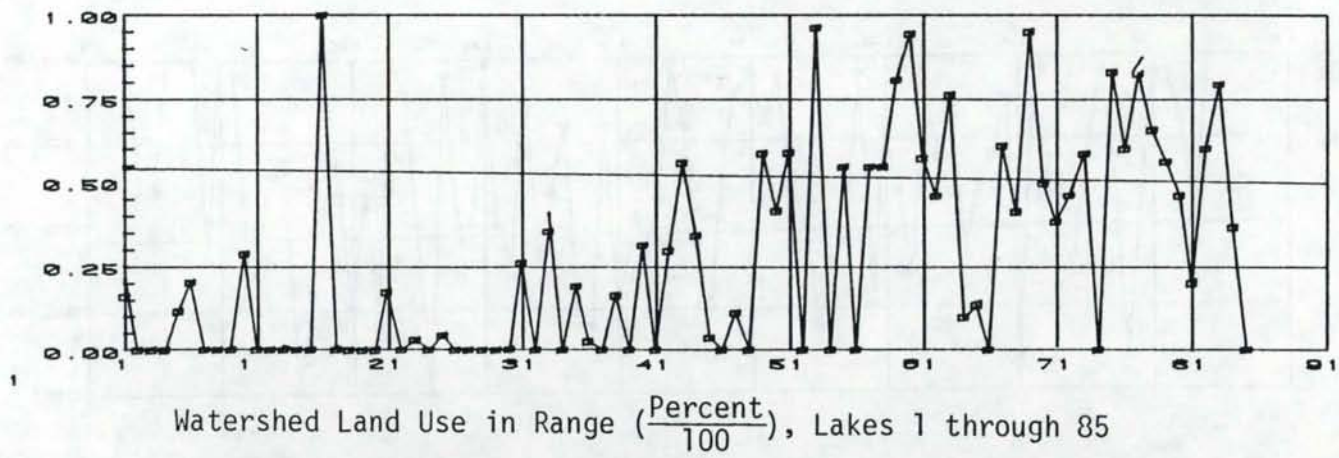
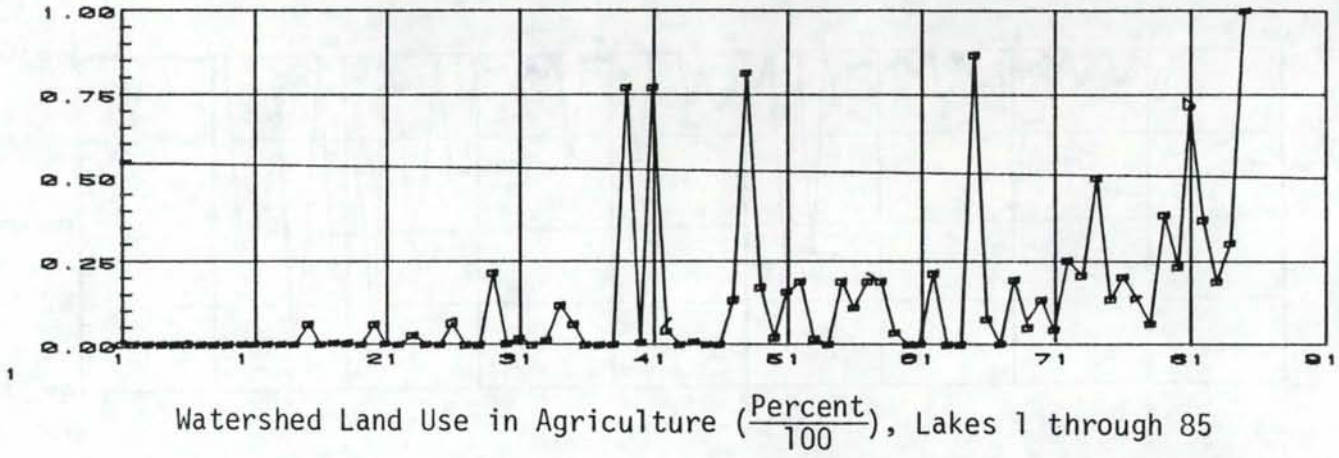
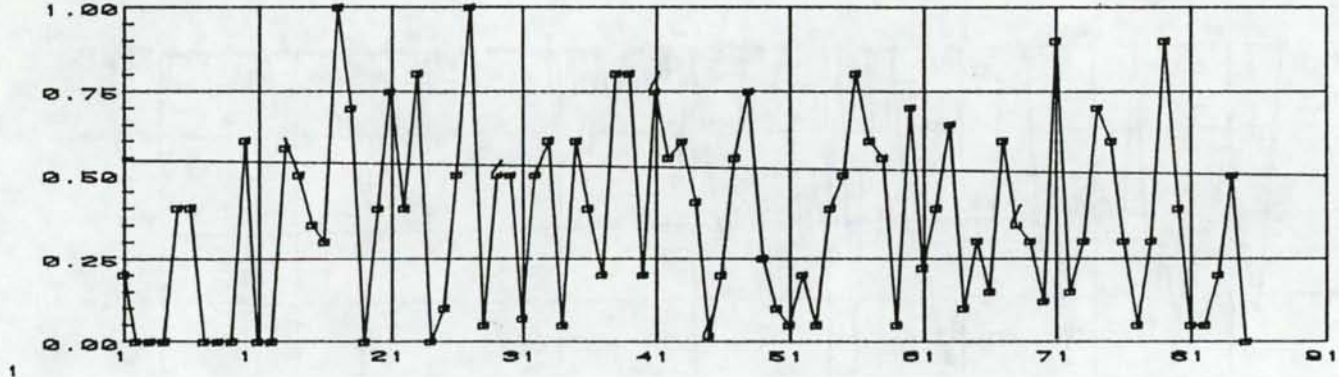


Figure D-4. Sample Factor Profiles - Economic Variables (continued)

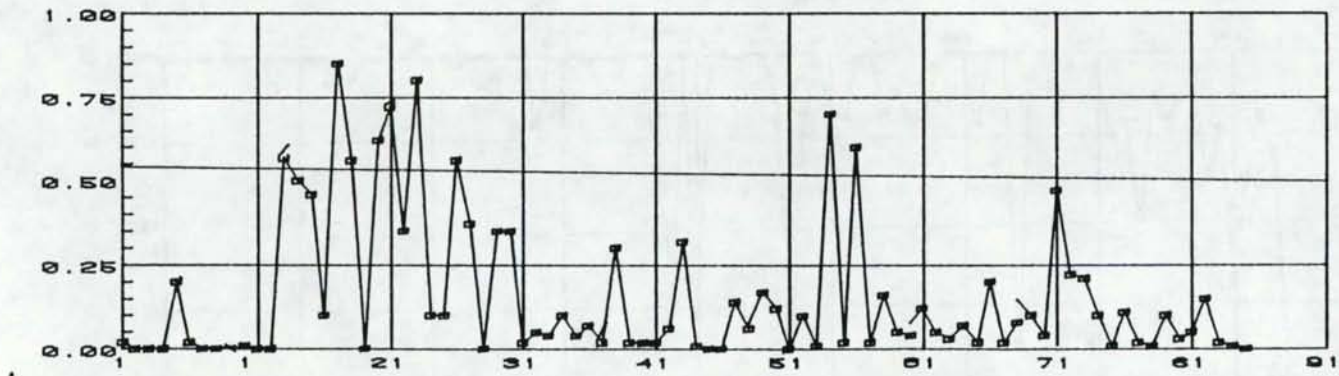


D-137

Figure D-5 Sample Factor Profiles - Recreation Factors



Road Access Variable, Lakes 1 through 85

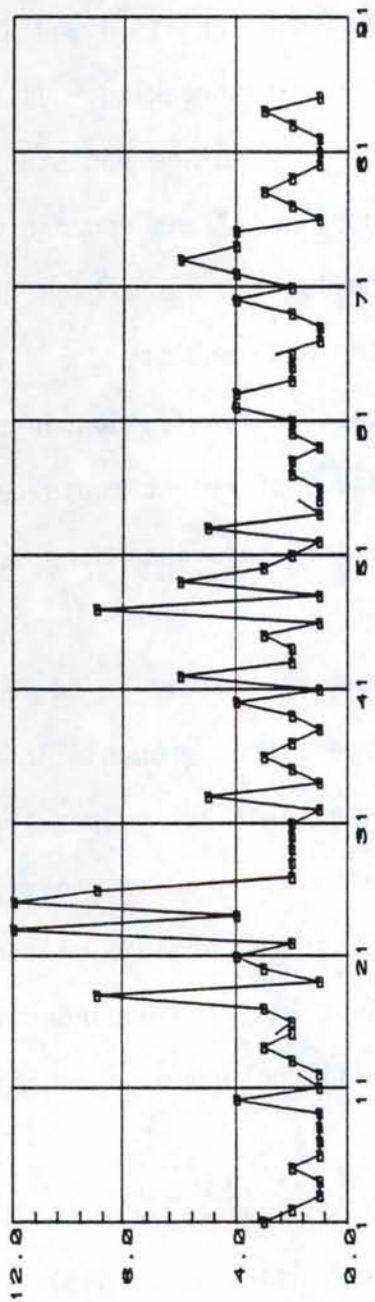


Development Index Variable, Lakes 1 through 85

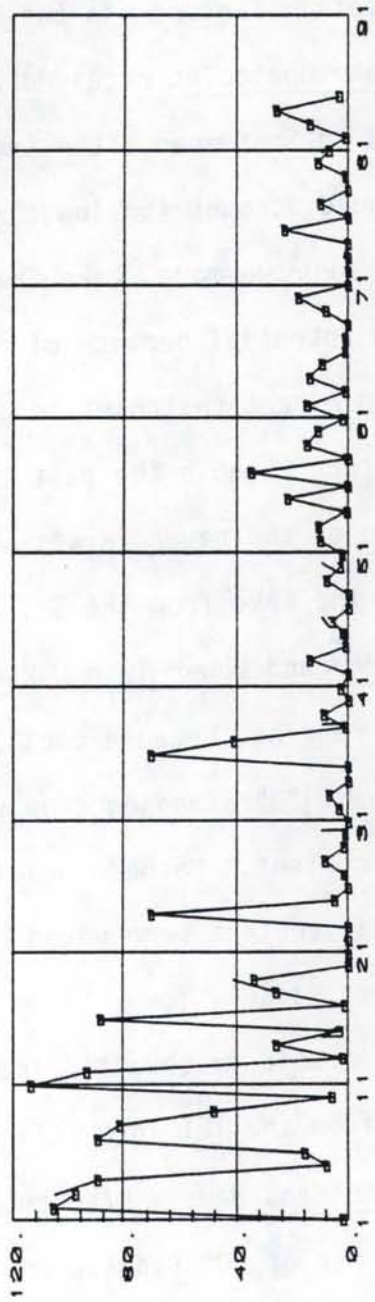
D-138



Figure D-5. Sample Factor Profiles - Recreation Factors (continued)



Recreation Access Variable, Lakes 1 through 85



Remoteness Variable, Lakes 1 through 85

## Apparent Anomalies in the TSI Rankings of 85 Idaho Lakes

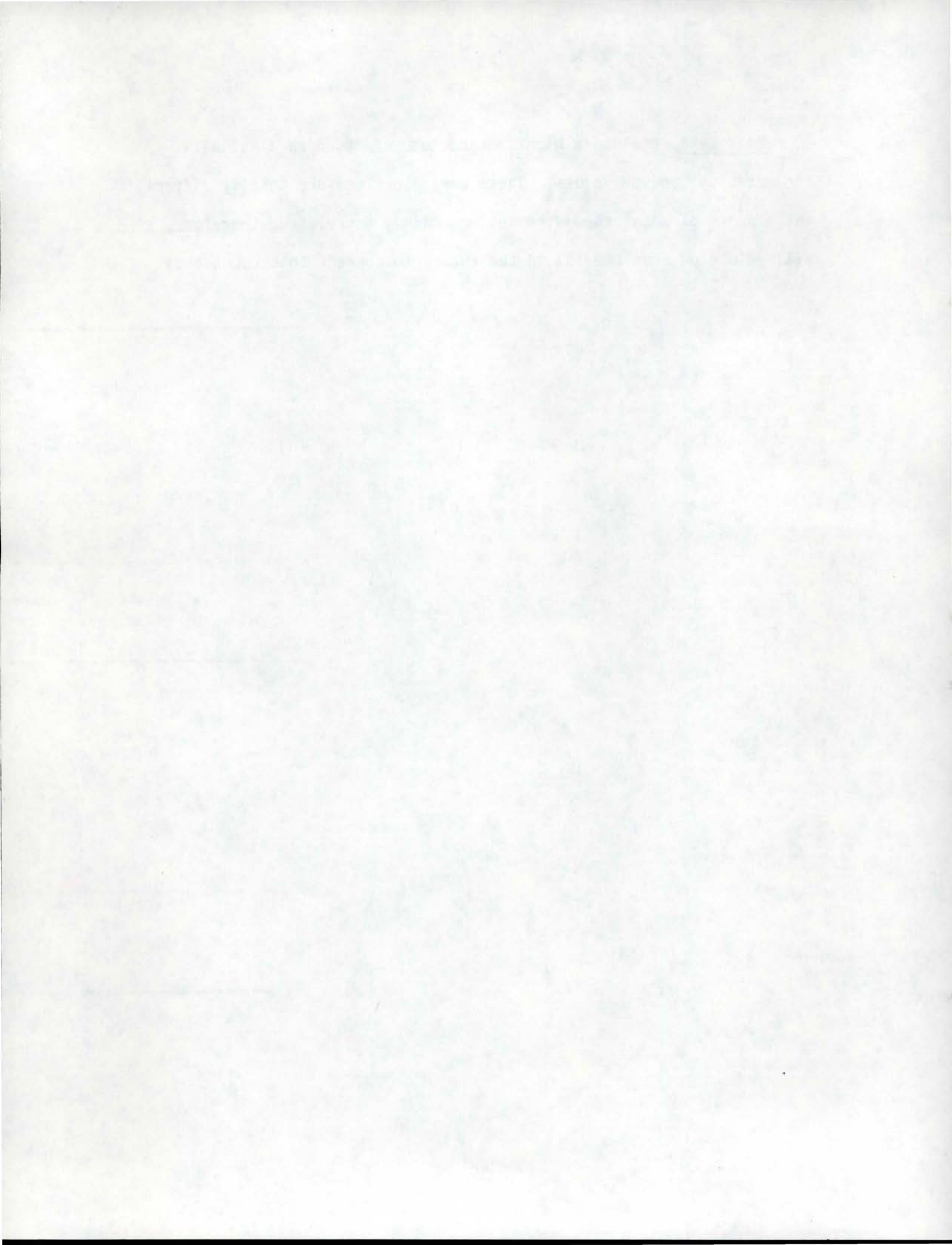
Fernan Lake reviews a lower ranking than would be expected. Its chlorophyll value was moderate (4.2) but other factors, mostly alkalinity and pH, held it to a low overall TSI value. Its shallow depth gives it a high eutrophication susceptibility so later inclusion of morphometric factors via the SCI will compensate for its low TSI.

Lake Chatcolet received a lower than expected ranking. It was sampled in September after the fall temperature decline had started. This could account for low observed chlorophyll "a" and organic content levels. Furthermore, Lake Chatcolet is shallow and has a high flow-through potential because of flushing by the adjacent St. Joe River. We would expect Chatcolet to demonstrate less eutrophication in the near future than in the past 2 decades because of recent rapid deterioration of the river levees which, in the past, provided more isolation of the lake from the St. Joe River.

Upper and Lower Twin Lakes received what we believe to be falsely low TSI rankings because cool September temperatures probably lowered chlorophyll "a" standing crop values and because of "0" values for organic content. Methodological problems with our gravimetric approach to organic content were noted. We believe that the organic content levels are falsely low. Since organic content was also apparently too low or sporadic in several other lakes, we will be dropping organic content from the TSI in our final draft.

Hayden and Hauser Lake both received lower than expected TSI rankings because of "0" registered organic content and also probably because of the late sampling in September.

Bear Lake received a high rank because of its high alkalinity, conductivity, and pH values. These parameters measure totally different aspects of water chemistry but are highly correlated, therefore, we will delete pH from the TSI in the future to correct this redundancy.



APPENDIX E

Selected Correlation Matrices for the 85-Lake Subsample



	CHLA	CRGCCNT	CCCR	TSS	CCLCR	SECCHI	TURBID
CHLA	1	0.498776	0.384111	0.479523	0.575507	0.462931	0.397269
CRGCCNT	0.498776	1	0.661994	0.775422	0.682911	0.631466	0.269661
ODOM	0.384111	0.661994	1	0.445136	0.336251	0.294228	0.287242
TSS	0.479523	0.775422	0.445136	1	0.670607	0.535445	0.528546
COLOR	0.575507	0.682911	0.336251	0.670607	1	0.535445	0.410703
SECCHI	0.462931	0.631466	0.294228	0.535445	0.410703	1	0.351787
TURBID	0.297269	0.269661	0.287242	0.528546	0.410703	0.351787	1
PTOTAL	0.029266	0.120968	0.033840	0.028725	0.026774	0.027622	0.027622
NTOTAL	0.108799	0.230212	0.033840	0.157202	0.181266	0.157632	0.149342
CONDUCT	0.187493	0.338404	0.235324	0.432765	0.394929	0.420322	0.470913
ALKALIN	0.132338	0.286612	0.198811	0.394929	0.340306	0.340306	0.551272
PH	0.211938	0.466306	0.440499	0.292238	0.30724	0.262566	0.33754
NO3	0.076825	0.120968	0.033840	0.028725	0.026774	0.027622	0.027622
TOTAL INDEX	0.623351	0.759889	0.554197	0.869187	0.777622	0.777622	0.670666
LAKENUM	-0.202822	0.166866	-0.031502	0.016204	-0.267745	0.098953	-0.140714
BAGRIC	0.274528	0.464515	0.29592	0.55863	0.423328	0.57043	0.20739
BRAN	0.020839	0.234421	-0.015879	0.090774	-0.041505	0.020266	0.17275
SAGRIC	0.044412	0.019998	-0.024656	0.16925	0.031603	0.16492	0.233219
SRAN	0.037983	0.315346	0.287121	0.114191	0.070977	0.133569	0.111919
RECA	0.034127	0.075114	0.344846	-0.010787	0.084056	-0.127116	-0.142139
REMOTE	-0.308944	-0.180267	-0.204447	-0.15738	-0.321139	-0.164852	-0.188588
DEV	0.200189	0.056741	0.167196	-0.136439	0.330747	-0.121789	-0.1322
RCADA	0.098254	-0.056741	-0.012805	-0.0907	0.036822	-0.17993	-0.046491

	PTOTAL	NTOTAL	CCNCLCT	ALKALIN	PH	NO3	TOTAL INDEX
CHLA	0.029266	0.108799	0.187493	0.132338	0.211938	0.076825	0.623351
CRGCCNT	0.120968	0.230212	0.338404	0.286612	0.466306	0.120968	0.759889
ODOM	0.033840	0.033840	0.033840	0.033840	0.033840	0.033840	0.033840
TSS	0.028725	0.028725	0.028725	0.028725	0.028725	0.028725	0.028725
COLOR	0.026774	0.026774	0.026774	0.026774	0.026774	0.026774	0.026774
SECCHI	0.027622	0.027622	0.027622	0.027622	0.027622	0.027622	0.027622
TURBID	0.027622	0.027622	0.027622	0.027622	0.027622	0.027622	0.027622
PTOTAL	1	0.070801	0.064033	0.064033	0.064033	0.064033	0.064033
NTOTAL	0.108799	1	0.062344	0.062344	0.062344	0.062344	0.062344
CONDUCT	0.187493	0.338404	0.235324	0.432765	0.394929	0.420322	0.470913
ALKALIN	0.132338	0.286612	0.198811	0.394929	0.340306	0.340306	0.551272
PH	0.211938	0.466306	0.440499	0.292238	0.30724	0.262566	0.33754
NO3	0.076825	0.120968	0.033840	0.028725	0.026774	0.027622	0.027622
TOTAL INDEX	0.623351	0.759889	0.554197	0.869187	0.777622	0.777622	0.670666
LAKENUM	-0.202822	0.166866	-0.031502	0.016204	-0.267745	0.098953	-0.140714
BAGRIC	0.274528	0.464515	0.29592	0.55863	0.423328	0.57043	0.20739
BRAN	0.020839	0.234421	-0.015879	0.090774	-0.041505	0.020266	0.17275
SAGRIC	0.044412	0.019998	-0.024656	0.16925	0.031603	0.16492	0.233219
SRAN	0.037983	0.315346	0.287121	0.114191	0.070977	0.133569	0.111919
RECA	0.034127	0.075114	0.344846	-0.010787	0.084056	-0.127116	-0.142139
REMOTE	-0.308944	-0.180267	-0.204447	-0.15738	-0.321139	-0.164852	-0.188588
DEV	0.200189	0.056741	0.167196	-0.136439	0.330747	-0.121789	-0.1322
RCADA	0.098254	-0.056741	-0.012805	-0.0907	0.036822	-0.17993	-0.046491

	LAKENUM	BAGRIC	BRAN	SAGRIC	SRAN	RECA	REMOTE
CHLA	-0.202822	0.274528	0.020839	0.044412	0.037983	0.034127	-0.308944
CRGCCNT	0.166866	0.464515	0.234421	0.019998	0.315346	0.075114	-0.140714
ODOM	-0.033840	-0.033840	-0.033840	-0.033840	-0.033840	-0.033840	-0.033840
TSS	0.028725	0.028725	0.028725	0.028725	0.028725	0.028725	0.028725
COLOR	0.026774	0.026774	0.026774	0.026774	0.026774	0.026774	0.026774
SECCHI	0.027622	0.027622	0.027622	0.027622	0.027622	0.027622	0.027622
TURBID	0.027622	0.027622	0.027622	0.027622	0.027622	0.027622	0.027622
PTOTAL	0.070801	0.064033	0.064033	0.064033	0.064033	0.064033	0.064033
NTOTAL	0.108799	0.062344	0.062344	0.062344	0.062344	0.062344	0.062344
CONDUCT	0.187493	0.338404	0.235324	0.432765	0.394929	0.420322	0.470913
ALKALIN	0.132338	0.286612	0.198811	0.394929	0.340306	0.340306	0.551272
PH	0.211938	0.466306	0.440499	0.292238	0.30724	0.262566	0.33754
NO3	0.076825	0.120968	0.033840	0.028725	0.026774	0.027622	0.027622
TOTAL INDEX	0.623351	0.759889	0.554197	0.869187	0.777622	0.777622	0.670666
LAKENUM	-0.202822	0.166866	-0.031502	0.016204	-0.267745	0.098953	-0.140714
BAGRIC	0.274528	0.464515	0.29592	0.55863	0.423328	0.57043	0.20739
BRAN	0.020839	0.234421	-0.015879	0.090774	-0.041505	0.020266	0.17275
SAGRIC	0.044412	0.019998	-0.024656	0.16925	0.031603	0.16492	0.233219
SRAN	0.037983	0.315346	0.287121	0.114191	0.070977	0.133569	0.111919
RECA	0.034127	0.075114	0.344846	-0.010787	0.084056	-0.127116	-0.142139
REMOTE	-0.308944	-0.180267	-0.204447	-0.15738	-0.321139	-0.164852	-0.188588
DEV	0.200189	0.056741	0.167196	-0.136439	0.330747	-0.121789	-0.1322
RCADA	0.098254	-0.056741	-0.012805	-0.0907	0.036822	-0.17993	-0.046491

	DEV	RCACA
CHLA	0.200189	0.098254
CRGCCNT	-0.251735	-0.056741
ODOM	-0.167196	-0.012805
TSS	-0.136439	-0.0907
COLOR	-0.130747	-0.036822
SECCHI	-0.121789	-0.17993
TURBID	-0.1322	-0.046491
PTOTAL	-0.139147	-0.02404
NTOTAL	-0.022176	-0.064033
CONDUCT	-0.287392	0.137604
ALKALIN	-0.291453	0.202115
PH	-0.292503	0.196259
NO3	-0.145968	-0.196579
TOTAL INDEX	-0.180811	0.022575
LAKENUM	-0.477372	0.038659
BAGRIC	-0.199796	0.142359
BRAN	-0.211658	0.171163
SAGRIC	-0.206198	0.286257
SRAN	-0.186142	0.086725
RECA	0.131236	0.330998
REMOTE	-0.358659	-0.534536
DEV	1	0.484202
RCADA	0.484202	1

Figure E-1. Correlation Matrix for Large Watersheds

	CFLA	CRGCCNT	CCCR	TSS	CCLCR	SECCHI	TURBID
CFLA	1.	0.616893	0.552283	0.274152	0.522436	0.212671	0.140858
CRGCCNT	0.616893	1.	0.294558	0.068824	0.233727	0.13473	0.204261
CCCR	0.052083	0.294558	1.	-0.152457	-0.027824	-0.125997	-0.057233
TSS	0.274152	0.068824	-0.152457	1.	0.02921	0.012722	0.333463
CCLCR	0.522436	0.233727	0.027824	0.02921	1.	0.012719	0.278304
SECCHI	0.212671	0.13473	-0.125997	0.012722	0.012719	1.	0.441856
TURBID	0.140858	0.204261	-0.057233	0.333463	0.278304	0.441856	1.
PTOTAL	-0.204105	-0.107608	-0.133847	0.041123	0.026544	0.173281	0.369793
NTOTAL	-0.129866	-0.03448	-0.123272	0.083498	-0.063802	0.217072	0.324833
CONDUCT	0.106806	0.10495	0.057851	0.035777	-0.1271	0.116784	0.078882
ALKALIN	0.123395	-0.028227	0.065867	0.031053	-0.113173	0.091597	0.316156
PH	0.447812	0.626305	0.280885	-0.04029	0.23482	0.007044	0.79917
NO3	0.311361	0.144009	0.193578	0.470652	-0.142354	0.467744	0.53584
TOTAL INDEX	0.42446	0.314062	-0.005926	0.273093	0.201724	0.602141	0.50589
LAKENUM	0.115702	0.077049	0.087632	0.255841	0.047141	0.211462	0.573584
BAGRIC	0.646025	0.422753	0.066618	0.362817	0.211965	0.451119	0.226094
BRAN	0.254135	0.141696	0.237828	0.426885	0.155788	0.397191	0.650044
SAGRIC	0.284979	0.047542	0.238228	0.426885	0.155788	0.397191	0.250688
SRAN	0.364377	0.088745	0.386647	0.400029	0.183258	-0.228744	0.193387
RECA	-0.246961	-0.07867	-0.152555	-0.00029	-0.302342	-0.270416	-0.135302
REMTE	-0.100731	-0.198757	-0.112747	-0.038158	-0.127288	-0.050416	-0.014905
DEV	-0.19062	-0.193363	-0.12403	-0.09843	-0.116747	-0.117863	-0.177839
RUADA	0.12172	0.17049	0.081143	0.215858	0.042717	0.262353	0.146781

	PTOTAL	NTOTAL	CONDUCT	ALKALIN	PH	NO3	TOTAL INDEX
CFLA	-0.204105	-0.129866	0.106806	-0.123395	0.447812	0.311361	0.42446
CRGCCNT	-0.107608	-0.03448	-0.106806	-0.028827	0.626305	0.144009	0.314062
CCCR	-0.133847	-0.123272	0.057851	0.069867	0.280885	0.193578	-0.005926
TSS	0.041123	0.083498	0.050777	0.031053	-0.09029	0.490652	0.273093
CCLCR	-0.026544	-0.063802	-0.1271	-0.113173	0.23482	-0.142354	0.201724
SECCHI	0.173281	0.217072	0.116784	0.091597	0.007044	0.467744	0.602141
TURBID	0.369793	0.324833	-0.078882	0.016156	0.245114	0.079907	0.553584
PTOTAL	1.	0.969932	0.142054	0.184181	0.015495	-0.080364	0.548427
NTOTAL	0.969932	1.	0.212624	0.245265	0.028099	0.34924	0.636177
CONDUCT	0.106806	0.10495	1.	0.931432	0.075203	0.304837	0.587455
ALKALIN	0.123395	-0.028227	0.065867	1.	0.192976	0.258485	0.635062
PH	0.447812	0.626305	0.280885	0.192976	1.	0.183294	0.37476
NO3	0.311361	0.144009	0.193578	0.470652	0.183294	1.	0.384276
TOTAL INDEX	0.42446	0.314062	-0.005926	0.273093	0.201724	0.602141	1.
LAKENUM	0.115702	0.077049	0.087632	0.255841	0.047141	0.211462	0.573584
BAGRIC	0.646025	0.422753	0.066618	0.362817	0.211965	0.451119	0.226094
BRAN	0.254135	0.141696	0.237828	0.426885	0.155788	0.397191	0.650044
SAGRIC	0.284979	0.047542	0.238228	0.426885	0.155788	0.397191	0.250688
SRAN	0.364377	0.088745	0.386647	0.400029	0.183258	-0.228744	0.193387
RECA	-0.246961	-0.07867	-0.152555	-0.00029	-0.302342	-0.270416	-0.135302
REMTE	-0.100731	-0.198757	-0.112747	-0.038158	-0.127288	-0.050416	-0.014905
DEV	-0.19062	-0.193363	-0.12403	-0.09843	-0.116747	-0.117863	-0.177839
RUADA	0.12172	0.17049	0.081143	0.215858	0.042717	0.262353	0.146781

	LAKENUM	BAGRIC	BRAN	SAGRIC	SRAN	RECA	REMTE
CFLA	0.115702	0.646025	0.254135	0.284979	0.364377	-0.246961	-0.100731
CRGCCNT	0.077049	0.422753	0.141696	0.047542	0.088745	-0.07867	-0.198757
CCCR	0.087632	0.066618	0.237828	-0.176865	0.380647	-0.152555	-0.112747
TSS	0.255841	0.362817	0.426885	0.400029	0.09049	-0.207375	-0.038158
CCLCR	0.047141	0.201965	0.155788	0.183258	0.00458	-0.302342	-0.127288
SECCHI	0.211462	0.451119	0.397191	0.528744	-0.062785	-0.276742	-0.050416
TURBID	0.097289	0.226094	0.450988	0.250988	0.119057	-0.185302	-0.214905
PTOTAL	0.227073	0.053298	0.318395	0.158716	0.159275	-0.163328	-0.066988
NTOTAL	0.212068	0.23878	0.306705	0.222892	0.118741	-0.170364	-0.059073
CONDUCT	0.106806	0.10495	0.106806	0.386171	0.077745	-0.16436	-0.160376
ALKALIN	0.123395	-0.028227	0.065867	0.458236	0.192606	-0.435502	-0.153714
PH	0.447812	0.626305	0.280885	0.192606	0.192606	-0.313258	-0.1396
NO3	0.311361	0.144009	0.193578	0.470652	0.183294	-0.197857	-0.325253
TOTAL INDEX	0.42446	0.314062	-0.005926	0.273093	0.201724	0.602141	0.50589
LAKENUM	1.	0.727355	0.663677	0.572112	0.204647	-0.513565	-0.141326
BAGRIC	0.646025	1.	0.671163	0.33234	0.382885	-0.41638	-0.251067
BRAN	0.254135	0.141696	1.	0.49957	0.06522	-0.349221	-0.193979
SAGRIC	0.284979	0.047542	0.238228	1.	0.638671	-0.454413	-0.198475
SRAN	0.364377	0.088745	0.386647	0.400029	1.	-0.372348	-0.194125
RECA	-0.246961	-0.07867	-0.152555	-0.00029	-0.302342	1.	-0.143312
REMTE	-0.100731	-0.198757	-0.112747	-0.038158	-0.127288	-0.050416	1.
DEV	-0.19062	-0.193363	-0.12403	-0.09843	-0.116747	-0.117863	-0.177839
RUADA	0.12172	0.17049	0.081143	0.215858	0.042717	0.262353	0.146781

	DEV	RECA
CFLA	-0.19062	0.12172
CRGCCNT	-0.193363	0.17049
CCCR	-0.12403	-0.081143
TSS	-0.09843	-0.215858
CCLCR	-0.116747	0.042717
SECCHI	-0.117863	-0.262353
TURBID	-0.177839	-0.146781
PTOTAL	-0.21258	-0.112913
NTOTAL	-0.175269	-0.058
CONDUCT	-0.149976	-0.067946
ALKALIN	-0.220508	-0.147467
PH	-0.541561	0.034876
NO3	-0.358945	-0.10762
TOTAL INDEX	-0.358945	-0.152747
LAKENUM	-0.414175	-0.204401
BAGRIC	-0.228687	-0.005541
BRAN	-0.463097	-0.296
SAGRIC	-0.156969	-0.344739
SRAN	-0.5077	-0.143876
RECA	-0.503055	0.177062
REMTE	-0.162076	-0.152243
DEV	1.	0.536429
RUADA	0.536429	1.

Figure E-2. Correlation Matrix for Small Watersheds



	CHLA	CRGCCNT	CCCR	TSS	CCLCR	SECCHI	TURBID
CHLA	1.	0.55533	0.031757	0.420534	0.44325	0.118771	0.163337
CRGCCNT	0.55533	1.	0.400915	0.288139	0.307493	0.203877	0.293055
QDOR	0.031757	0.400915	1.	0.054245	0.133134	0.013887	0.073779
TSS	0.420534	0.288139	0.054245	1.	0.528639	0.624624	0.557633
COLOR	0.44325	0.307493	0.133134	0.528639	1.	0.385721	0.454999
SECCHI	0.118771	0.203877	0.013887	0.624624	0.385721	1.	0.454999
TURBID	0.163337	0.293055	0.073779	0.557633	0.454999	0.454999	1.
PTOTAL	-0.13935	-0.109122	-0.106058	-0.191658	-0.088293	-0.446743	-0.22889
NTOTAL	-0.118524	-0.070156	-0.106058	-0.191658	-0.088293	-0.446743	-0.22889
CONDUCT	-0.144179	-0.069811	-0.045666	-0.058894	-0.1088614	-0.0293059	-0.06766
ALKALIN	-0.190398	-0.005219	-0.005946	-0.005946	-0.0078631	-0.0097039	-0.0097039
PH	0.23917	0.621	0.263128	0.223915	0.314981	0.054918	0.279688
NO3	0.104292	0.061556	0.005946	0.005946	0.194581	0.054918	0.059664
TOTAL INDEX	0.440754	0.347934	0.072233	0.503099	0.352157	0.612581	0.597777
LAKENUM	0.214082	0.228828	0.109406	0.240027	0.14412	0.140708	0.119494
BAGRIC	0.59202	0.291544	0.04678	0.333719	0.284246	0.344539	0.322783
BRAN	0.435815	0.353566	0.337315	0.448084	0.330334	0.344539	0.436674
SAGRIC	0.490107	0.070536	0.144808	0.227052	0.162049	0.398316	0.474317
SRAN	0.096709	0.236157	0.448084	0.178667	0.151165	0.398316	0.597777
RECA	-0.100463	-0.098599	-0.222731	-0.192884	-0.283896	-0.213587	-0.144654
REMOTE	-0.70373	-0.154148	-0.15318	-0.083105	-0.091773	-0.091773	-0.028008
DEV	-0.277962	-0.35721	-0.15318	-0.233802	-0.191265	-0.2416	-0.194417
ROADA	0.184717	0.061421	0.137555	0.117044	0.036573	0.139739	0.172031

	PTOTAL	NTOTAL	CCONDUCT	ALKALIN	PH	NO3	TOTAL INDEX
CHLA	-0.13935	-0.118524	-0.144179	-0.190398	0.423917	0.104292	0.440754
CRGCCNT	-0.109122	-0.070156	-0.065811	-0.0509219	0.621	0.061556	0.347934
QDOR	-0.106058	-0.118388	-0.049608	-0.059401	0.25702	0.263128	0.072233
TSS	-0.191658	-0.035565	-0.058942	-0.152715	0.223915	0.0033065	0.503099
COLOR	0.088293	-0.00786	-0.1088614	-0.0078631	0.314981	-0.194581	0.352157
SECCHI	0.446743	0.384246	0.022058	0.097039	0.29326	0.054918	0.597777
TURBID	0.402889	0.360302	-0.006766	0.094027	0.279688	-0.033964	0.597777
PTOTAL	1.	0.944803	0.211512	0.251562	0.004923	-0.093391	0.614142
NTOTAL	0.944803	1.	0.239663	0.269191	0.084595	0.049738	0.606782
CONDUCT	0.211512	0.239663	1.	0.97559	0.19333	0.251427	0.631314
ALKALIN	0.251562	0.269191	0.97559	1.	0.232478	0.232478	0.703699
PH	0.49223	0.084595	0.19333	0.232478	1.	0.275399	0.497151
NO3	-0.093381	0.049738	0.251427	0.232478	0.275399	1.	0.165423
TOTAL INDEX	0.614142	0.606782	0.631314	0.703699	0.497151	0.165423	1.
LAKENUM	0.271708	0.243423	0.646852	0.669715	0.42494	0.021834	0.623835
BAGRIC	0.150162	0.232864	0.447802	0.491843	0.300467	0.412601	0.636316
BRAN	0.393227	0.36445	0.447802	0.592664	0.529016	0.281272	0.794966
SAGRIC	0.229452	0.226964	0.496345	0.55043	0.138466	-0.007218	0.677613
SRAN	0.205928	0.203613	0.235615	0.314545	0.594134	0.441579	0.343056
RECA	-0.187501	-0.147768	-0.356303	-0.363803	-0.224542	-0.118712	-0.305499
REMOTE	-0.058306	-0.037599	-0.063793	-0.059304	-0.073038	-0.167245	-0.059885
DEV	-0.22253	-0.191328	-0.238644	-0.295679	-0.575088	-0.155596	-0.449177
ROADA	-0.206412	-0.109556	-0.083704	-0.165667	-0.01446	-0.000879	-0.136731

	LAKENUM	BAGRIC	BRAN	SAGRIC	SRAN	RECA	REMOTE
CHLA	0.214082	0.59202	0.435815	0.490107	0.096709	-0.100463	-0.070373
CRGCCNT	0.228828	0.291544	0.353566	0.070536	0.236157	-0.098599	-0.154148
QDOR	0.109406	0.04678	0.337319	-0.14868	0.444044	-0.222731	-0.167547
TSS	0.240027	0.346176	0.502914	0.227052	0.178673	-0.192984	-0.033105
COLOR	0.14412	0.284851	0.330534	0.162049	0.154165	-0.283896	-0.0091773
SECCHI	0.140708	0.348509	0.445226	0.398316	0.10621	-0.218597	-0.0087383
TURBID	0.119494	0.322783	0.436674	0.474317	0.059001	-0.144654	-0.028008
PTOTAL	0.271708	0.150162	0.393227	0.229452	0.205928	-0.197501	-0.058306
NTOTAL	0.243423	0.232864	0.36445	0.226964	0.203613	-0.147768	-0.037599
CONDUCT	0.646855	0.447602	0.497827	0.496345	0.235615	-0.356303	-0.063793
ALKALIN	0.669715	0.491843	0.592664	0.55043	0.314545	-0.363803	-0.059304
PH	0.42409	0.300467	0.525016	0.138466	0.594134	-0.224542	-0.373038
NO3	-0.021834	0.0410601	0.281272	-0.097218	0.441579	-0.118712	-0.167245
TOTAL INDEX	0.623835	0.636316	0.794966	0.627613	0.38096	-0.395449	-0.359885
LAKENUM	1.	0.662735	0.462777	0.376341	0.412657	-0.410601	-0.152751
BAGRIC	0.662735	1.	0.492777	0.489714	0.223786	-0.264982	-0.077147
BRAN	0.462777	0.492777	1.	0.471123	0.67794	-0.376251	-0.127031
SAGRIC	0.376341	0.489714	0.471123	1.	-0.0944	-0.231101	-0.018684
SRAN	0.412657	0.223786	0.67794	-0.0944	1.	-0.314483	-0.060463
RECA	-0.410601	-0.264982	-0.376251	-0.231101	-0.314483	1.	-0.18956
REMOTE	-0.152751	-0.077147	-0.127031	-0.018684	-0.060463	-0.18956	1.
DEV	-0.54682	-0.272612	-0.538719	-0.254414	-0.505594	-0.378805	-0.18956
ROADA	-0.221092	0.04863	-0.192333	-0.132542	-0.208767	0.094026	-0.207823

	DEV	ROADA
CHLA	-0.277962	0.184717
CRGCCNT	-0.35721	0.061421
QDOR	-0.15318	-0.137555
TSS	-0.233802	-0.117044
COLOR	-0.181065	-0.036573
SECCHI	-0.2416	-0.139739
TURBID	-0.194417	-0.172031
PTOTAL	-0.22253	-0.206412
NTOTAL	-0.191328	-0.109556
CONDUCT	-0.238644	-0.083704
ALKALIN	-0.295679	-0.165667
PH	-0.575088	-0.01446
NO3	-0.155596	-0.000879
TOTAL INDEX	-0.469177	-0.136731
LAKENUM	-0.54682	-0.221092
BAGRIC	-0.272612	-0.04863
BRAN	-0.538719	-0.153333
SAGRIC	-0.254414	-0.132542
SRAN	-0.505594	-0.208767
RECA	-0.378805	-0.094026
REMOTE	-0.18956	-0.207823
DEV	1.	0.595939
ROADA	0.595939	1.

Figure E-3. Correlation Matrix for Large Lakes

	CHLA	CRGCCNT	CCCP	TSS	COLCP	SECCHI	TURBID
CHLA	1.	0.534081	0.474726	0.448385	0.600426	0.442127	0.264441
CRGCCNT	0.534081	1.	0.635356	0.728351	0.330752	0.359205	0.325851
CCCP	0.474726	0.635356	1.	0.371187	0.487703	0.182054	0.324848
TSS	0.448385	0.728351	0.371187	1.	0.485263	0.350034	0.500341
COLCP	0.600426	0.330752	0.487703	0.485263	1.	0.335082	0.335082
SECCHI	0.442127	0.359205	0.182054	0.350034	0.335082	1.	0.325851
TURBID	0.264441	0.325851	0.324848	0.500341	0.335082	0.325851	1.
PTOTAL	0.131119	0.118374	0.15461	0.097629	0.219296	0.17253	0.611608
NTOTAL	0.136953	0.263528	0.254493	0.251121	0.366384	0.163852	0.74499
CONDUCT	0.15461	0.254493	0.151033	0.382207	0.35382	0.43314	0.526433
ALKALIN	0.057629	0.259293	0.382207	0.468175	0.248838	0.341976	0.842229
PH	0.219296	0.259293	0.151033	0.468175	0.29993	0.074144	0.618763
NO3	0.17253	0.366384	0.43314	0.370666	0.275774	0.529403	0.74733
TOTAL INDEX	0.611608	0.74499	0.842229	0.853786	0.336692	0.538855	0.615266
LAKENUM	0.249289	0.283064	0.339979	0.453786	0.336692	0.538855	0.615266
BAGRIC	0.055459	0.539979	0.008673	0.025611	0.024301	0.066006	0.446131
BRAN	0.117997	0.367712	0.008673	0.025611	0.024301	0.066006	0.335328
SAGRIC	0.117997	0.367712	0.008673	0.025611	0.024301	0.066006	0.335328
SRAN	0.046837	0.046837	0.046837	0.046837	0.046837	0.046837	0.046837
RECA	0.072869	0.055459	0.055459	0.055459	0.055459	0.055459	0.055459
REMCTE	0.383932	0.168737	0.168737	0.168737	0.168737	0.168737	0.168737
DEV	0.364319	0.085974	0.085974	0.085974	0.085974	0.085974	0.085974
RCADA	0.085974	0.085974	0.085974	0.085974	0.085974	0.085974	0.085974

	PTOTAL	NTOTAL	CONDUCT	ALKALIN	PH	NO3	TOTAL INDEX
CHLA	0.013119	0.136553	0.15461	0.097629	0.219296	0.17253	0.611608
CRGCCNT	0.118374	0.263528	0.254493	0.251121	0.366384	0.163852	0.74499
CCCP	0.15461	0.254493	0.151033	0.382207	0.35382	0.43314	0.526433
TSS	0.097629	0.251121	0.382207	0.468175	0.248838	0.341976	0.842229
COLCP	0.219296	0.366384	0.43314	0.370666	0.29993	0.074144	0.618763
SECCHI	0.17253	0.529403	0.468175	0.336692	0.275774	0.529403	0.74733
TURBID	0.611608	0.74499	0.842229	0.853786	0.336692	0.538855	0.615266
PTOTAL	0.087027	0.087027	0.14112	0.502349	0.177495	0.066006	0.446131
NTOTAL	0.26702	0.14112	0.14112	0.502349	0.177495	0.066006	0.446131
CONDUCT	0.15461	0.15461	0.15461	0.15461	0.15461	0.15461	0.15461
ALKALIN	0.097629	0.097629	0.097629	0.097629	0.097629	0.097629	0.097629
PH	0.219296	0.219296	0.219296	0.219296	0.219296	0.219296	0.219296
NO3	0.17253	0.17253	0.17253	0.17253	0.17253	0.17253	0.17253
TOTAL INDEX	0.611608	0.611608	0.611608	0.611608	0.611608	0.611608	0.611608
LAKENUM	0.249289	0.249289	0.249289	0.249289	0.249289	0.249289	0.249289
BAGRIC	0.055459	0.055459	0.055459	0.055459	0.055459	0.055459	0.055459
BRAN	0.117997	0.117997	0.117997	0.117997	0.117997	0.117997	0.117997
SAGRIC	0.117997	0.117997	0.117997	0.117997	0.117997	0.117997	0.117997
SRAN	0.046837	0.046837	0.046837	0.046837	0.046837	0.046837	0.046837
RECA	0.072869	0.072869	0.072869	0.072869	0.072869	0.072869	0.072869
REMCTE	0.383932	0.383932	0.383932	0.383932	0.383932	0.383932	0.383932
DEV	0.364319	0.364319	0.364319	0.364319	0.364319	0.364319	0.364319
RCADA	0.085974	0.085974	0.085974	0.085974	0.085974	0.085974	0.085974

	LAKENUM	BAGRIC	BRAN	SAGRIC	SRAN	RECA	REMCTE
CHLA	0.249289	0.283064	0.339979	0.453786	0.336692	0.538855	0.615266
CRGCCNT	0.055459	0.539979	0.008673	0.025611	0.024301	0.066006	0.446131
CCCP	0.117997	0.367712	0.008673	0.025611	0.024301	0.066006	0.335328
TSS	0.117997	0.367712	0.008673	0.025611	0.024301	0.066006	0.335328
COLCP	0.037573	0.397031	0.118374	0.058773	0.058773	0.058773	0.058773
SECCHI	0.211129	0.508421	0.190624	0.273884	0.273884	0.273884	0.273884
TURBID	0.611608	0.74499	0.842229	0.853786	0.336692	0.538855	0.615266
PTOTAL	0.09012	0.16769	0.16769	0.377188	0.09012	0.09012	0.09012
NTOTAL	0.117696	0.319298	0.05229	0.255112	0.41229	0.138221	0.37774
CONDUCT	0.15461	0.15461	0.15461	0.15461	0.15461	0.15461	0.15461
ALKALIN	0.097629	0.097629	0.097629	0.097629	0.097629	0.097629	0.097629
PH	0.219296	0.219296	0.219296	0.219296	0.219296	0.219296	0.219296
NO3	0.17253	0.17253	0.17253	0.17253	0.17253	0.17253	0.17253
TOTAL INDEX	0.611608	0.611608	0.611608	0.611608	0.611608	0.611608	0.611608
LAKENUM	0.249289	0.249289	0.249289	0.249289	0.249289	0.249289	0.249289
BAGRIC	0.055459	0.055459	0.055459	0.055459	0.055459	0.055459	0.055459
BRAN	0.117997	0.117997	0.117997	0.117997	0.117997	0.117997	0.117997
SAGRIC	0.117997	0.117997	0.117997	0.117997	0.117997	0.117997	0.117997
SRAN	0.046837	0.046837	0.046837	0.046837	0.046837	0.046837	0.046837
RECA	0.072869	0.072869	0.072869	0.072869	0.072869	0.072869	0.072869
REMCTE	0.383932	0.383932	0.383932	0.383932	0.383932	0.383932	0.383932
DEV	0.364319	0.364319	0.364319	0.364319	0.364319	0.364319	0.364319
RCADA	0.085974	0.085974	0.085974	0.085974	0.085974	0.085974	0.085974

	DEV	RCADA
CHLA	0.364319	0.085974
CRGCCNT	0.085974	0.085974
CCCP	0.085974	0.085974
TSS	0.085974	0.085974
COLCP	0.085974	0.085974
SECCHI	0.085974	0.085974
TURBID	0.085974	0.085974
PTOTAL	0.085974	0.085974
NTOTAL	0.085974	0.085974
CONDUCT	0.085974	0.085974
ALKALIN	0.085974	0.085974
PH	0.085974	0.085974
NO3	0.085974	0.085974
TOTAL INDEX	0.085974	0.085974
LAKENUM	0.085974	0.085974
BAGRIC	0.085974	0.085974
BRAN	0.085974	0.085974
SAGRIC	0.085974	0.085974
SRAN	0.085974	0.085974
RECA	0.085974	0.085974
REMCTE	0.085974	0.085974
DEV	0.085974	0.085974
RCADA	0.085974	0.085974

Figure E-4. Correlation Matrix for Small Lakes

	CHLA	CRGCCNT	CCCR	TSS	COLCR	SFCCHI	TURBID
CHLA	1.	0.521006	0.378843	0.599362	0.417586	0.710079	0.561906
CRGCCNT	0.521006	1.	0.692782	0.211915	0.169992	0.414307	0.466103
CCCR	0.378843	0.692782	1.	0.123811	0.144653	0.269536	0.142302
TSS	0.599362	0.211915	0.123811	1.	0.307592	0.762867	0.634887
COLCR	0.417586	0.169992	0.144653	0.307592	1.	0.438526	0.497725
SFCCHI	0.710079	0.414307	0.269536	0.762867	0.438526	1.	0.644881
TURBID	0.561906	0.466103	0.142302	0.634887	0.497725	0.644881	1.
PTOTAL	0.601751	0.421145	0.265601	0.607735	0.531649	0.701324	0.525967
NTOTAL	0.529899	0.354528	0.421145	0.425528	0.184123	0.342282	0.21374
CONDUCT	0.209628	0.387653	0.184552	0.379662	0.788665	0.190535	0.17558
ALKALIN	0.210625	0.34004	0.167461	0.120903	0.035189	0.224645	0.351073
PH	0.524345	0.695385	0.329025	0.313812	0.292165	0.453151	0.443172
NO3	0.678942	0.53779	0.53779	0.233683	0.550476	0.437997	0.336688
TOTAL INDEX	0.656529	0.645865	0.401181	0.423848	0.356475	0.593215	0.617432
LAKENUM	0.061605	0.281646	0.170931	0.230026	0.191354	0.236145	0.195662
BAGRIC	0.458783	0.289757	0.310556	0.163375	0.163375	0.22531	0.372574
BRAN	0.182061	0.357871	0.267326	0.235111	0.235111	0.356102	0.294386
SAGRIC	0.133107	0.048067	0.165375	0.069649	0.171183	0.011247	0.172266
SRAN	0.399957	0.538834	0.43017	0.2361	0.320661	0.339915	0.352309
RECA	-0.034667	-0.096615	-0.157763	-0.003204	-0.226517	-0.143762	-0.09479
REMTE	-0.07735	-0.178256	-0.146586	-0.065799	-0.111434	-0.047397	-0.10135
DEV	-0.237533	-0.413961	-0.241594	-0.128646	-0.245591	-0.266097	-0.238876
RCADA	-0.196667	-0.184082	-0.246225	-0.149485	-0.105709	-0.187893	-0.16126

	PTOTAL	NTOTAL	CONDUCT	ALKALIN	PH	NO3	TOTAL INDEX
CHLA	0.601751	0.525899	0.209628	0.210625	0.524345	0.678942	0.656529
CRGCCNT	0.421145	0.354528	0.287653	0.34004	0.695385	0.53779	0.645865
CCCR	0.265601	0.413171	0.184552	0.167461	0.329025	0.532154	0.431181
TSS	0.607735	0.161861	0.607735	0.120903	0.313812	0.23583	0.423948
COLCR	0.531649	0.184123	0.788665	0.035189	0.292165	0.050476	0.354875
SFCCHI	0.701324	0.342282	0.190535	0.224645	0.453151	0.437997	0.593215
TURBID	0.525967	0.21374	0.17098	0.351073	0.443172	0.336688	0.617432
PTOTAL	1.	0.608302	0.215737	0.188351	0.347083	0.491763	0.567262
NTOTAL	0.608302	1.	0.100737	0.030056	0.504134	0.709735	0.353886
CONDUCT	0.215737	0.100737	1.	0.943334	0.504134	0.327525	0.780911
ALKALIN	0.188391	0.030056	0.943334	1.	0.583365	0.279209	0.830379
PH	0.524345	0.147425	0.504134	0.583365	1.	0.393007	0.800473
NO3	0.491763	0.709735	0.327525	0.279209	0.393007	1.	0.56236
TOTAL INDEX	0.567262	0.353886	0.780911	0.830379	0.800473	0.56236	1.
LAKENUM	0.061605	-0.160205	0.571128	0.587126	0.499678	-0.066482	0.53538
BAGRIC	0.458783	0.233568	0.580203	0.574168	0.471159	0.629739	0.562551
BRAN	0.182061	0.389404	0.466067	0.519054	0.531113	0.226554	0.557037
SAGRIC	-0.08518	-0.100472	0.455175	0.480128	0.256154	0.150164	0.346378
SRAN	0.399957	0.538834	0.419344	0.55253	0.798754	0.339915	0.652933
RECA	-0.190749	-0.047529	-0.161534	-0.191594	-0.087178	-0.185324	-0.198719
REMTE	-0.106508	-0.049861	-0.25488	-0.269992	-0.190802	-0.033891	-0.265845
DEV	-0.195502	0.02974	-0.12904	-0.201273	-0.439654	-0.225133	-0.335423
RCADA	-0.094239	0.101458	0.1414	0.094636	-0.035032	-0.044861	-0.022767

	LAKENUM	BAGRIC	BRAN	SAGRIC	SRAN	RECA	REMTE
CHLA	0.061605	0.458783	0.182061	0.133107	0.399957	-0.034667	-0.07735
CRGCCNT	0.281646	0.289757	0.357871	0.048067	0.538834	-0.096615	-0.178256
CCCR	0.170931	0.310556	0.267326	-0.165375	0.43017	-0.157763	-0.146586
TSS	0.230026	0.163618	0.235112	0.069649	0.2361	-0.003204	-0.065799
COLCR	0.191394	-0.203553	0.210457	-0.171183	0.320661	-0.226517	-0.111434
SFCCHI	0.236145	0.22531	0.356102	0.311247	0.34499	-0.143762	-0.047397
TURBID	0.195662	0.072574	0.294386	0.172266	0.352309	-0.09479	-0.16135
PTOTAL	0.215508	0.088214	0.386047	-0.08518	0.250213	-0.190749	-0.106508
NTOTAL	-0.160205	0.233568	0.389404	-0.100472	0.047529	0.120919	-0.039861
CONDUCT	0.215508	0.088214	0.386047	-0.08518	0.250213	-0.190749	-0.106508
ALKALIN	0.587126	0.574168	0.519054	0.480128	0.55253	-0.191594	-0.265845
PH	0.499678	0.471159	0.531113	0.256154	0.798754	-0.087178	-0.198719
NO3	-0.066482	0.629739	0.226554	0.100164	0.339915	-0.185324	-0.033891
TOTAL INDEX	0.567262	0.562551	0.557037	0.346378	0.662933	-0.198719	-0.265845
LAKENUM	1.	0.245441	0.68093	0.267415	0.489335	0.303974	0.068542
BAGRIC	0.245441	1.	0.41559	0.453358	0.582515	-0.035105	-0.173614
BRAN	0.68093	0.41559	1.	0.222492	0.645576	-0.278146	-0.033465
SAGRIC	0.267415	0.453358	0.222492	1.	0.152975	-0.03803	-0.191072
SRAN	0.489335	0.582515	0.645576	0.152975	1.	-0.21098	-0.246384
RECA	-0.030397	-0.05105	-0.278146	-0.03803	-0.21098	1.	-0.234033
REMTE	-0.048942	-0.173614	-0.033465	-0.191072	-0.246384	-0.234033	1.
DEV	-0.446283	-0.155234	-0.477578	-0.090236	-0.474683	-0.321655	-0.269372
RCADA	-0.171163	-0.023267	-0.153676	-0.161399	-0.127934	0.064825	-0.337075

	DEV	RCACA
CHLA	-0.237533	-0.196667
CRGCCNT	-0.413961	-0.184082
CCCR	-0.241594	-0.246225
TSS	-0.128646	-0.149485
COLCR	-0.245591	-0.105709
SFCCHI	-0.266097	-0.187893
TURBID	-0.238876	-0.16126
PTOTAL	-0.195502	-0.094239
NTOTAL	0.02974	0.101458
CONDUCT	-0.12904	0.1414
ALKALIN	-0.201273	0.094636
PH	-0.439654	-0.035032
NO3	-0.225133	-0.044861
TOTAL INDEX	-0.335423	-0.022767
LAKENUM	-0.446283	-0.171163
BAGRIC	-0.155234	-0.023267
BRAN	-0.477578	-0.153676
SAGRIC	-0.090236	-0.161399
SRAN	-0.474683	-0.127934
RECA	0.321655	0.064825
REMTE	-0.269372	-0.337075
DEV	1.	0.640351
RCADA	0.640351	1.

Figure E-5. Correlation Matrix for Deep Lakes

	CHLA	CRGCCNT	CCDR	TSS	COLLR	SECCI	TURBID
CHLA	1.	C.503936	O.302084	C.389298	C.546631	C.342084	O.133783
CRGCCNT	O.503936	1.	O.302084	O.389298	O.546631	O.342084	O.133783
QUOR	O.302084	C.545406	1.	C.546631	1.	C.455459	O.175365
TSS	O.389298	O.545406	O.546631	1.	O.492769	O.344065	O.379735
COLLR	O.546631	O.545406	O.546631	O.492769	1.	O.344065	O.379735
SECCI	O.342084	O.455459	O.158904	O.877857	O.344065	1.	O.46425
TURBID	O.133783	J.175365	O.120668	C.382241	O.254679	O.379735	1.
PTOTAL	-0.139608	-0.029773	O.048238	O.196372	O.019118	O.172105	O.46425
NTOTAL	-0.101201	J.034556	O.005054	O.057239	O.081654	O.146958	O.260674
CONDUCT	J.079773	C.070664	C.082165	O.210543	O.087523	O.256939	O.098202
ALKALIN	O.068696	O.107639	O.102443	O.227679	O.082189	O.233454	O.230113
PH	O.209086	O.469362	O.317709	O.160285	O.165333	O.203865	O.287099
NO3	O.030484	O.171222	O.008835	O.340072	O.001482	O.523223	O.066899
TOTAL INDEX	O.494834	O.595017	O.370975	O.735924	O.454426	O.717392	O.358558
LAKENUM	-0.169978	O.102475	-0.082075	O.070843	O.355013	O.149054	O.057224
BAGRIC	O.260159	O.427847	O.286219	J.478371	O.405202	O.476247	O.124756
BRAN	O.096533	O.199769	O.102779	O.237108	O.098747	C.226023	O.303451
SAGRIC	O.015736	-0.03537	-0.071113	O.180503	O.063414	O.740584	O.206179
SRAN	-0.026642	C.153377	O.154233	O.069419	O.136191	O.078674	O.128561
RECA	O.066873	O.237206	O.237206	O.237206	O.237206	O.237206	O.237206
REMOTE	-0.340113	-0.208529	-0.174428	-0.173453	-0.173453	-0.173453	-0.173453
DEV	O.410968	-0.132642	-0.089384	-0.079332	O.161758	O.061493	O.128561
ROADA	O.251541	O.110986	O.080919	O.108635	O.059316	O.207929	O.244537

	PTOTAL	NTOTAL	CCNCLCT	ALKALIN	PH	NO3	TOTAL INDEX
CHLA	-0.139608	-0.101201	C.075773	O.068696	O.209086	O.030484	O.494834
CRGCCNT	-0.029773	O.034556	O.070664	O.107639	C.469362	O.017122	O.545017
QUOR	O.048238	O.009094	O.082165	O.102443	O.317709	O.008835	O.370975
TSS	O.196372	O.057239	O.210543	O.227679	O.160285	O.340072	O.735924
COLLR	-0.019118	O.081654	-0.087523	-0.082189	O.165333	O.001482	O.454426
SECCI	O.172105	O.146958	O.233454	O.230113	O.203865	O.523223	O.066899
TURBID	O.46425	O.260674	O.098202	O.410508	O.287099	O.066899	O.358558
PTOTAL	1.	J.736835	C.252867	O.932682	1.	O.499554	O.514771
NTOTAL	O.736835	1.	O.252867	O.932682	O.499554	1.	O.421113
CONDUCT	O.340805	O.252867	O.233077	O.161564	O.161564	O.418803	O.598201
ALKALIN	O.410508	O.233077	O.161564	1.	O.499554	O.248093	O.655578
PH	O.190894	O.161564	O.418803	O.499554	1.	O.114065	O.464777
NO3	-0.038594	O.233077	O.161564	O.248093	O.114065	1.	O.319156
TOTAL INDEX	O.514771	O.421113	O.598201	O.655578	O.464777	O.319156	1.
LAKENUM	O.186131	O.143739	O.247768	O.620316	O.287389	O.256884	O.22884
BAGRIC	O.043602	O.144615	O.247768	O.620316	O.287389	O.256884	O.22884
BRAN	O.374135	O.30875	O.499413	O.581062	O.485877	O.307135	O.516245
SAGRIC	O.197948	O.157198	O.554783	O.559042	O.254965	O.262854	O.360272
SRAN	O.267828	O.239176	O.373963	O.415644	O.467273	O.214452	O.070274
RECA	O.117887	O.229416	O.399295	O.399295	O.377685	O.377685	O.307238
REMOTE	-0.090914	-0.155716	-0.12843	-0.12843	-0.12843	-0.12843	-0.12843
DEV	-0.179239	-0.10533	-0.07509	-0.257365	-0.173453	-0.173453	-0.109502
ROADA	-0.020159	-0.047516	O.01586	O.064162	O.216741	O.19897	O.033874

	LAKENUM	BAGRIC	BRAN	SAGRIC	SRAN	RECA	REMOTE
CHLA	-0.169978	O.260159	O.096533	O.015736	-0.026642	O.066873	-0.340113
CRGCCNT	O.102475	O.427847	O.199769	-0.03537	O.153377	O.237206	-0.208529
QUOR	-0.082075	O.286219	O.102779	O.071113	O.154233	O.158027	-0.174428
TSS	O.070843	O.478371	O.237108	O.180503	O.069419	-0.043225	-0.173453
COLLR	-0.35501	O.405202	-0.096747	-0.363414	-0.136191	O.081757	-0.299831
SECCI	O.149054	O.476247	O.226023	O.249584	O.078674	-0.127772	-0.17495
TURBID	-0.057224	O.124756	C.263451	O.206141	O.128561	C.098649	-0.129258
PTOTAL	O.186131	O.043602	O.379135	O.197948	O.267828	O.117887	-0.090914
NTOTAL	O.153739	O.146152	C.30875	O.157198	O.239176	O.122941	-0.155716
CONDUCT	O.555345	O.297988	O.499413	O.454783	O.373963	O.267601	-0.248231
ALKALIN	O.623764	O.34031	O.581062	O.559042	O.415644	O.099295	-0.312843
PH	O.514312	O.282789	O.495877	O.254965	O.467273	O.377685	-0.517443
NO3	O.256884	O.30016	O.237335	O.262854	O.214452	O.0742	-0.121116
TOTAL INDEX	O.282884	O.52118	O.516045	O.360945	O.307272	O.112338	-0.410787
LAKENUM	1.	O.241325	C.575988	O.413355	O.519189	O.153377	O.047297
BAGRIC	O.241325	1.	-0.078362	O.614285	-0.129122	O.033673	-0.272796
BRAN	C.575988	-0.078362	1.	O.18653	O.77611	-0.216666	-0.244537
SAGRIC	O.413355	O.614285	O.18653	1.	-0.133347	-0.058513	-0.230522
SRAN	O.519189	-0.129122	O.77611	-0.133347	1.	O.248529	-0.245372
RECA	O.153377	-0.033673	C.216666	-0.058513	O.248529	1.	-0.14606
REMOTE	-0.047297	-0.272796	-0.244537	-0.230522	-0.245372	-0.245372	1.
DEV	-0.462731	-0.158336	-0.21416	-0.14606	-0.197817	-0.027036	-0.353568
ROADA	-0.066581	O.210739	O.062834	O.201762	O.040833	O.2176	-0.474353

	DEV	ROADA
CHLA	O.410968	O.251541
CRGCCNT	-0.132642	O.110986
QUOR	-0.089384	O.080919
TSS	-0.079332	-0.108635
COLLR	O.161758	O.059316
SECCI	-0.061493	-0.207929
TURBID	-0.082328	-0.34246
PTOTAL	-0.179239	-0.020159
NTOTAL	-0.10533	-0.047516
CONDUCT	-0.207509	O.01586
ALKALIN	-0.257369	O.064162
PH	-0.306403	O.216741
NO3	-0.031183	-0.19897
TOTAL INDEX	-0.109502	O.033874
LAKENUM	-0.462731	O.006581
BAGRIC	-0.158336	J.210739
BRAN	-0.21416	O.062834
SAGRIC	-0.141606	O.201762
SRAN	-0.197817	O.040833
RECA	-0.027036	O.2176
REMOTE	-0.353568	-0.474353
DEV	1.	J.373773
ROADA	O.373773	1.

Figure E-6. Correlation Matrix for Shallow Lakes

	CHLA	CRGCCNT	CCCH	TSS	COLCR	SECCFI	TURBID
CHLA	1	0.847186	0.897561	0.266454	0.693773	0.2335	0.149653
CRGCCNT	0.847186	1	0.88134	0.366105	0.562534	0.330151	0.249743
ODOR	0.897561	0.88134	1	0.479948	0.637526	0.439595	0.339425
TSS	0.266454	0.366105	0.479948	1	0.221572	0.974489	0.92413
COLCR	0.693773	0.562534	0.637526	0.221572	1	0.27815	0.252891
SECCFI	0.2335	0.330151	0.439595	0.974489	0.27815	1	0.946005
TURBID	0.149653	0.249743	0.339425	0.92413	0.252891	0.946005	1
PTOTAL	0.15558	0.157198	0.248943	0.951422	0.092407	0.970912	0.0940736
NTOTAL	0.279185	0.404122	0.476123	0.347939	0.280604	0.299675	0.2770436
CONDUCT	0.550866	0.552233	0.655659	0.930261	0.225557	0.958607	0.953211
ALKALIN	0.791885	0.943147	0.992185	0.992185	0.762643	0.958607	0.953211
ALCALIN	0.550866	0.552233	0.655659	0.930261	0.225557	0.958607	0.953211
NO3	0.688874	0.688874	0.688874	0.688874	0.688874	0.688874	0.688874
NO3	0.688874	0.688874	0.688874	0.688874	0.688874	0.688874	0.688874
TOTAL INDEX	0.553461	0.553461	0.553461	0.553461	0.553461	0.553461	0.553461
LAKENUM	0.186743	0.186743	0.186743	0.186743	0.186743	0.186743	0.186743
BAGRIC	0.709433	0.709433	0.709433	0.709433	0.709433	0.709433	0.709433
BRAN	0.47391	0.47391	0.47391	0.47391	0.47391	0.47391	0.47391
SAGRIC	0.026807	0.026807	0.026807	0.026807	0.026807	0.026807	0.026807
SPAN	0.080681	0.080681	0.080681	0.080681	0.080681	0.080681	0.080681
RECA	0.155368	0.155368	0.155368	0.155368	0.155368	0.155368	0.155368
REMO	0.301323	0.301323	0.301323	0.301323	0.301323	0.301323	0.301323
DEV	0.011882	0.011882	0.011882	0.011882	0.011882	0.011882	0.011882
ROADA	0.251051	0.251051	0.251051	0.251051	0.251051	0.251051	0.251051

	PTOTAL	NTOTAL	CCNDUCT	ALKALIN	PH	NO3	TOTAL INDEX
CHLA	0.01558	0.279185	0.255086	0.213746	0.688874	0.29887	0.553461
CRGCCNT	0.157198	0.404122	0.347939	0.290685	0.634397	0.360767	0.609111
ODOR	0.158363	0.476123	0.441535	0.391832	0.70828	0.43272	0.713503
TSS	0.265142	0.143223	0.943045	0.943045	0.521872	0.366339	0.924886
COLOR	0.092407	0.280604	0.264958	0.225557	0.762643	0.289479	0.539807
SECCFI	0.970912	0.14293	0.95556	0.958607	0.541634	0.057332	0.91459
TURBID	0.2940736	0.297042	0.935215	0.935803	0.430637	0.229675	0.87317
PTOTAL	1	0.065422	0.930261	0.943147	0.371481	0.024245	0.81026
NTOTAL	0.065422	1	0.191371	0.112233	0.331406	0.890516	0.351184
CONDUCT	0.930261	0.191371	1	0.992185	0.615813	0.374579	0.924975
ALKALIN	0.943147	0.112233	0.992185	1	0.570417	0.013	0.900271
PH	0.371481	0.331406	0.615813	0.570417	1	0.222292	0.774419
NO3	0.024245	0.890516	0.074579	0.013	0.222292	1	0.261181
TOTAL INDEX	0.81026	0.351184	0.924975	0.900271	0.774418	0.261181	1
LAKENUM	0.083855	-0.076023	-0.05926	-0.068153	-0.17578	-0.157215	-0.950006
BAGRIC	0.509188	-0.004216	0.655659	0.644102	0.708826	-0.110699	0.769006
BRAN	0.442824	0.332834	0.520244	0.470629	0.264603	0.041773	0.470325
SAGRIC	0.997532	0.007122	0.915663	0.933876	0.329641	0.078551	0.77607
SPAN	0.080681	0.049963	0.200538	0.190354	0.264468	0.0707482	0.16614
RECA	0.104659	-0.234434	-0.275914	-0.234677	-0.426313	-0.132807	-0.332136
REMO	0.114474	0.008376	0.051733	0.05869	0.161442	0.0378631	0.074902
ROADA	0.206203	0.133001	0.334053	0.300068	0.503988	0.104429	0.359495

	LAKENUM	BAGRIC	BRAN	SAGRIC	SPAN	RECA	REMO
CHLA	-0.186743	0.709433	-0.047391	-0.026807	0.080681	0.155368	-0.301323
CRGCCNT	0.093023	0.710904	0.10632	0.113673	0.080681	0.129173	-0.122201
ODOR	0.074633	0.775503	0.016705	0.201004	0.080681	0.171284	-0.239084
TSS	-0.017211	0.655233	0.405844	0.93852	0.080681	0.121506	-0.250399
COLCR	0.186208	0.470088	0.010211	0.045457	0.080681	0.022399	-0.417616
SECCFI	0.330151	0.64027	0.40912	0.956888	0.080681	0.111575	-0.152684
TURBID	0.0581731	0.484849	0.418878	0.922946	0.080681	0.078542	-0.277779
PTOTAL	0.083855	0.509188	0.448854	0.997532	0.080681	0.080681	-0.139659
NTOTAL	-0.076023	-0.004216	0.336854	0.007122	0.080681	0.049963	-0.234434
CONDUCT	0.930261	0.191371	0.930261	0.915663	0.080681	0.203558	-0.275914
ALKALIN	0.943147	0.112233	0.992185	0.933876	0.080681	0.170354	-0.234677
PH	0.371481	0.331406	0.615813	0.570417	0.080681	0.264458	-0.426313
NO3	0.024245	0.890516	0.074579	0.013	0.080681	0.037482	-0.132807
TOTAL INDEX	0.81026	0.351184	0.924975	0.900271	0.080681	0.16614	-0.332136
LAKENUM	1	0.55E-06	0.134387	0.084975	0.080681	-0.552573	0.554056
BAGRIC	0.55E-06	1	0.132031	0.493902	0.080681	0.23601	-0.24911
BRAN	0.134387	0.132031	1	0.428534	0.080681	0.075831	-0.301235
SAGRIC	0.084979	0.493902	0.428534	1	0.080681	0.089977	-0.049775
SPAN	0.080681	0.049963	0.200538	0.190354	1	0.080681	0.080681
RECA	0.155368	0.129173	0.171284	0.121506	0.080681	1	-0.31421
REMO	0.301323	0.122201	0.239084	0.250399	0.080681	0.332136	1
DEV	0.011882	0.011882	0.011882	0.011882	0.011882	0.011882	0.011882
ROADA	0.251051	0.251051	0.251051	0.251051	0.251051	0.251051	0.251051

	DEV	ROADA
CHLA	-0.011882	0.251051
CRGCCNT	-0.120332	0.206608
ODOR	-0.085626	0.265725
TSS	-0.045251	0.30873
COLCR	-0.102431	0.31456
SECCFI	-0.088842	0.275431
TURBID	-0.123701	0.175662
PTOTAL	-0.114474	0.206203
NTOTAL	0.008376	0.133001
CONDUCT	-0.051733	0.334053
ALKALIN	-0.05869	0.300068
PH	0.161442	0.503988
NO3	-0.078631	-0.104428
TOTAL INDEX	-0.074902	0.359995
LAKENUM	-0.429296	-0.342499
BAGRIC	-0.061708	0.414072
BRAN	-0.52943	0.453776
SAGRIC	-0.110705	0.195818
SPAN	0.080681	0.080681
RECA	0.550442	0.56951
REMO	-0.382702	-0.726712
DEV	1	0.635955
ROADA	0.635955	1

Figure E-7. Correlation Matrix for North High Elevation Lakes

	CHLA	CRGCCNT	CDCR	TSS	COLOR	SECCHI	TURBID
CHLA	1.	0.468443	0.314436	0.528742	0.586722	0.591536	0.354088
CRGCCNT	0.468443	1.	0.87539	0.961252	0.850343	0.955831	0.345723
CDCR	0.314436	0.87539	1.	0.814364	0.800226	0.809476	0.336480
TSS	0.528742	0.961252	0.814364	1.	0.863536	0.854556	0.429694
COLOR	0.586722	0.850343	0.800226	0.863536	1.	0.854556	0.549608
SECCHI	0.591536	0.955831	0.809476	0.854556	0.854556	1.	0.549608
TURBID	0.354088	0.345723	0.336480	0.429694	0.549608	0.549608	1.
PTOTAL	0.396438	0.067468	0.080444	0.241322	0.330967	0.204263	0.653014
CONDUCT	0.067468	0.080444	0.133758	0.098103	0.157565	0.128985	0.112477
ALKALIN	0.01063	0.080444	0.133758	0.024102	0.029688	0.0273124	0.49575
PH	0.035031	0.080444	0.133758	0.030967	0.031699	0.0322037	0.53791
NO3	0.204263	0.067468	0.080444	0.049181	0.0279556	0.067425	0.096654
TOTAL INDEX	0.653014	0.067468	0.080444	0.21478	0.332288	0.204263	0.590793
LAKENUM	0.229778	0.281874	0.185955	0.092294	0.185407	0.149584	0.306797
BAGRIC	0.281874	0.766784	0.905898	0.722154	0.809858	0.726991	0.359342
BRAN	0.185955	0.766784	0.905898	0.722154	0.809858	0.726991	0.359342
SAGRIC	0.068081	0.79679	0.111087	0.094822	0.0488	0.113224	0.309411
SRAN	0.141374	0.379727	0.111087	0.115193	0.020517	0.0124241	0.324849
RECA	0.179727	0.131458	0.284845	0.084219	0.0383794	0.0223109	0.121466
REMOTE	0.202201	0.164726	0.326805	0.08959	0.248443	0.126719	0.033444
DEV	0.041831	0.396262	0.464369	0.373035	0.45583	0.369702	0.360557
RGADA	0.153529	0.329121	0.355157	0.338434	0.34352	0.380727	0.401547

	PTOTAL	NTOTAL	CONDUCT	ALKALIN	PH	NO3	TOTAL INDEX
CHLA	0.396438	-0.067468	-0.080444	-0.01063	-0.035031	-0.204263	0.653014
CRGCCNT	0.067468	0.080444	0.133758	0.024102	0.029688	0.0273124	0.49575
CDCR	0.080444	0.133758	0.206748	0.0353567	0.031699	0.0322037	0.53791
TSS	0.241322	0.098103	0.196225	0.049181	0.0279556	0.067425	0.096654
COLOR	0.330967	0.157565	0.206748	0.030967	0.031699	0.0322037	0.53791
SECCHI	0.204263	0.128985	0.128985	0.0273124	0.029688	0.0273124	0.49575
TURBID	0.549608	0.112477	0.112477	0.49575	0.53791	0.53791	0.53791
PTOTAL	1.	0.575287	0.196225	0.353567	0.421103	0.44957	0.900581
CONDUCT	0.067468	0.080444	0.133758	0.024102	0.029688	0.0273124	0.49575
ALKALIN	0.01063	0.080444	0.133758	0.024102	0.029688	0.0273124	0.49575
PH	0.035031	0.080444	0.133758	0.030967	0.031699	0.0322037	0.53791
NO3	0.204263	0.067468	0.080444	0.049181	0.0279556	0.067425	0.096654
TOTAL INDEX	0.653014	0.067468	0.080444	0.21478	0.332288	0.204263	0.590793
LAKENUM	0.229778	0.281874	0.185955	0.092294	0.185407	0.149584	0.306797
BAGRIC	0.281874	0.766784	0.905898	0.722154	0.809858	0.726991	0.359342
BRAN	0.185955	0.766784	0.905898	0.722154	0.809858	0.726991	0.359342
SAGRIC	0.068081	0.79679	0.111087	0.094822	0.0488	0.113224	0.309411
SRAN	0.141374	0.379727	0.111087	0.115193	0.020517	0.0124241	0.324849
RECA	0.179727	0.131458	0.284845	0.084219	0.0383794	0.0223109	0.121466
REMOTE	0.202201	0.164726	0.326805	0.08959	0.248443	0.126719	0.033444
DEV	0.041831	0.396262	0.464369	0.373035	0.45583	0.369702	0.360557
RGADA	0.153529	0.329121	0.355157	0.338434	0.34352	0.380727	0.401547

	LAKENUM	BAGRIC	BRAN	SAGRIC	SRAN	RECA	REMOTE
CHLA	0.229778	0.281874	0.185955	0.068081	0.141374	0.179727	0.202201
CRGCCNT	0.067468	0.080444	0.133758	0.024102	0.029688	0.0273124	0.49575
CDCR	0.080444	0.133758	0.206748	0.0353567	0.031699	0.0322037	0.53791
TSS	0.241322	0.098103	0.196225	0.049181	0.0279556	0.067425	0.096654
COLOR	0.330967	0.157565	0.206748	0.030967	0.031699	0.0322037	0.53791
SECCHI	0.204263	0.128985	0.128985	0.0273124	0.029688	0.0273124	0.49575
TURBID	0.549608	0.112477	0.112477	0.49575	0.53791	0.53791	0.53791
PTOTAL	0.297815	0.434422	0.21587	0.059122	0.0124241	0.0124241	0.324849
CONDUCT	0.067468	0.080444	0.133758	0.024102	0.029688	0.0273124	0.49575
ALKALIN	0.01063	0.080444	0.133758	0.024102	0.029688	0.0273124	0.49575
PH	0.035031	0.080444	0.133758	0.030967	0.031699	0.0322037	0.53791
NO3	0.204263	0.067468	0.080444	0.049181	0.0279556	0.067425	0.096654
TOTAL INDEX	0.653014	0.067468	0.080444	0.21478	0.332288	0.204263	0.590793
LAKENUM	0.229778	0.281874	0.185955	0.092294	0.185407	0.149584	0.306797
BAGRIC	0.281874	0.766784	0.905898	0.722154	0.809858	0.726991	0.359342
BRAN	0.185955	0.766784	0.905898	0.722154	0.809858	0.726991	0.359342
SAGRIC	0.068081	0.79679	0.111087	0.094822	0.0488	0.113224	0.309411
SRAN	0.141374	0.379727	0.111087	0.115193	0.020517	0.0124241	0.324849
RECA	0.179727	0.131458	0.284845	0.084219	0.0383794	0.0223109	0.121466
REMOTE	0.202201	0.164726	0.326805	0.08959	0.248443	0.126719	0.033444
DEV	0.041831	0.396262	0.464369	0.373035	0.45583	0.369702	0.360557
RGADA	0.153529	0.329121	0.355157	0.338434	0.34352	0.380727	0.401547

	DEV	RGADA
CHLA	0.041831	0.153529
CRGCCNT	0.067468	0.080444
CDCR	0.080444	0.133758
TSS	0.241322	0.098103
COLOR	0.330967	0.157565
SECCHI	0.204263	0.128985
TURBID	0.549608	0.112477
PTOTAL	0.575287	0.196225
CONDUCT	0.067468	0.080444
ALKALIN	0.01063	0.080444
PH	0.035031	0.080444
NO3	0.204263	0.067468
TOTAL INDEX	0.653014	0.067468
LAKENUM	0.229778	0.281874
BAGRIC	0.281874	0.766784
BRAN	0.185955	0.766784
SAGRIC	0.068081	0.79679
SRAN	0.141374	0.379727
RECA	0.179727	0.131458
REMOTE	0.202201	0.164726
DEV	1.	1.
RGADA	0.696213	1.

Figure E-8. Correlation Matrix for North Low Elevation Lakes

	CHLA	GRGCCNT	CCCP	TSS	CCLCR	SECCHI	TURBID
CHLA	1.	0.35435	-0.012862	-0.373216	0.105233	-0.310958	-0.590149
GRGCCNT	-0.35435	1.	0.671493	-0.113342	-0.016792	-0.219539	-0.314101
CCCP	0.012862	-0.671493	1.	0.054534	0.28972	-0.077941	-0.23167
TSS	0.373216	-0.113342	0.054534	1.	0.159496	0.952686	-0.924992
CCLCR	0.105233	-0.016792	0.28972	0.159496	1.	0.056655	-0.118088
SECCHI	-0.310958	0.219539	-0.077941	0.952686	0.056655	1.	-0.90152
TURBID	-0.590149	-0.314101	-0.23167	-0.924992	-0.118088	-0.90152	1.
PTOTAL	0.088634	-0.088634	0.03167	0.048557	0.002873	0.0132	-0.03637
NTOTAL	0.171591	-0.171591	0.06367	0.097114	0.005746	0.0264	-0.07274
CCNDUCT	0.085202	-0.085202	0.02105	0.0336	0.001275	0.00483	-0.01338
ALKALIN	0.159495	-0.159495	0.033275	0.048557	0.005746	0.0264	-0.07274
PH	0.081561	-0.081561	0.033275	0.048557	0.005746	0.0264	-0.07274
NO3	0.120651	-0.120651	0.033275	0.048557	0.005746	0.0264	-0.07274
TOTAL INDEX	0.058609	-0.058609	0.02105	0.0336	0.001275	0.00483	-0.01338
LAKENUM	0.380132	-0.380132	0.07077	0.112	0.040271	-0.110047	-0.110047
BAGRIC	0.311133	-0.311133	0.045077	0.07112	0.026233	-0.082011	-0.082011
BRAN	0.554726	-0.554726	0.101079	0.15554	0.053157	-0.151644	-0.151644
SAGRIC	0.090491	-0.090491	0.015475	0.02322	0.005461	-0.015598	-0.015598
RECA	0.146384	-0.146384	0.055717	0.08664	0.02779	-0.034707	-0.034707
REMUTE	0.123321	-0.123321	0.044472	0.067114	0.025482	-0.012407	-0.012407
DEV	0.269246	-0.269246	0.075519	0.118024	0.040337	-0.018216	-0.018216
RCACA	0.053882	-0.053882	0.0118024	0.01718	0.003271	-0.0099404	-0.0099404

	PTOTAL	NTOTAL	CCNDUCT	ALKALIN	PH	NO3	TOTAL INDEX
CHLA	0.288634	-0.288634	0.08222	0.159935	0.038156	-0.120651	0.409981
GRGCCNT	-0.288634	0.288634	-0.08222	-0.159935	-0.038156	0.120651	-0.409981
UDOR	0.084637	-0.084637	0.023105	0.036	0.012753	-0.037272	-0.037272
TSS	0.004857	-0.004857	0.01436	0.018936	0.005746	-0.017133	-0.017133
CCLCR	0.002873	-0.002873	0.00167	0.0042	0.000959	-0.002727	-0.002727
SECCHI	0.03608	-0.03608	0.018275	0.027203	0.007886	-0.023203	-0.023203
TURBID	0.003637	-0.003637	0.002301	0.0044	0.00174	-0.00545	-0.00545
PTOTAL	1.	1.	0.00693	0.012221	0.00483	-0.0155	-0.0155
NTOTAL	0.950144	-0.950144	0.00693	0.012221	0.00483	-0.0155	-0.0155
CCNDUCT	0.220443	-0.220443	1.	0.42488	0.02222	-0.03368	-0.03368
ALKALIN	0.207844	-0.207844	0.42488	1.	0.183394	-0.03368	-0.03368
PH	0.063707	-0.063707	0.02222	0.183394	1.	0.433684	0.433684
NO3	0.060132	-0.060132	0.00991	0.01759	0.060364	1.	0.38963
TOTAL INDEX	0.297325	-0.297325	0.00991	0.01759	0.060364	0.38963	1.
LAKENUM	0.16468	-0.16468	0.03372	0.05459	0.019144	-0.014433	-0.014433
BAGRIC	0.32658	-0.32658	0.0591	0.08303	0.028370	-0.016003	-0.016003
BRAN	0.180818	-0.180818	0.01076	0.01759	0.008369	-0.00555	-0.00555
SAGRIC	0.063707	-0.063707	0.00729	0.01222	0.00423	-0.00164	-0.00164
SRAN	0.388571	-0.388571	0.03982	0.06061	0.010366	-0.00666	-0.00666
RECA	0.074679	-0.074679	0.00644	0.010366	0.003337	-0.00272	-0.00272
REMUTE	0.16374	-0.16374	0.00644	0.010366	0.003337	-0.00272	-0.00272
DEV	0.195055	-0.195055	0.00644	0.010366	0.003337	-0.00272	-0.00272
RCACA	0.059861	-0.059861	0.00644	0.010366	0.003337	-0.00272	-0.00272

	LAKENUM	BAGRIC	BRAN	SAGRIC	SRAN	RECA	REMUTE
CHLA	0.058609	-0.058609	0.311353	-0.554726	0.090491	-0.146384	-0.125321
GRGCCNT	-0.058609	0.058609	-0.311353	0.554726	-0.090491	0.146384	0.125321
UDOR	0.081696	-0.081696	0.02112	-0.034554	0.02775	-0.096864	-0.096864
TSS	0.10788	-0.10788	0.02691	-0.042775	0.004277	-0.026032	-0.026032
CCLCR	0.188119	-0.188119	0.02733	-0.043197	0.005461	-0.032097	-0.032097
SECCHI	0.110047	-0.110047	0.03311	-0.051083	0.005164	-0.035498	-0.035498
TURBID	0.110629	-0.110629	0.03311	-0.051083	0.005164	-0.035498	-0.035498
PTOTAL	0.16468	-0.16468	0.03311	-0.051083	0.005164	-0.035498	-0.035498
NTOTAL	0.092572	-0.092572	0.03311	-0.051083	0.005164	-0.035498	-0.035498
CCNDUCT	0.739042	-0.739042	0.03311	-0.051083	0.005164	-0.035498	-0.035498
ALKALIN	0.68459	-0.68459	0.03311	-0.051083	0.005164	-0.035498	-0.035498
PH	0.344594	-0.344594	0.03311	-0.051083	0.005164	-0.035498	-0.035498
NO3	0.191443	-0.191443	0.03311	-0.051083	0.005164	-0.035498	-0.035498
TOTAL INDEX	0.518483	-0.518483	0.03311	-0.051083	0.005164	-0.035498	-0.035498
LAKENUM	1.	1.	0.444124	-0.68743	0.03372	-0.137226	-0.137226
BAGRIC	0.444124	-0.444124	1.	0.205323	0.031082	-0.137226	-0.137226
BAGRIC	0.187935	-0.187935	0.205323	1.	0.031082	-0.137226	-0.137226
SAGRIC	0.243828	-0.243828	0.603471	0.031082	1.	-0.267137	-0.267137
SRAN	0.163582	-0.163582	0.21377	0.031082	0.267137	1.	0.353822
SAGRIC	0.035061	-0.035061	0.086126	0.031082	0.137226	0.267137	1.
SRAN	0.491369	-0.491369	0.154055	0.031082	0.056179	0.267137	0.353822
RECA	0.20107	-0.20107	0.264288	0.031082	0.182165	0.267137	0.353822
DEV	0.212325	-0.212325	0.105677	0.031082	0.293965	0.267137	0.353822
RCACA	0.053882	-0.053882	0.0118024	0.031082	0.0099404	0.267137	0.353822

	DEV	RCACA
CHLA	-0.269246	0.053882
GRGCCNT	0.269246	-0.053882
UDOR	-0.084637	0.023105
TSS	0.127081	-0.055718
CCLCR	0.0403	-0.032718
SECCHI	-0.108375	0.0594404
TURBID	-0.152234	-0.095997
PTOTAL	-0.195055	-0.059861
NTOTAL	-0.096731	-0.0286044
CCNDUCT	-0.18104	0.131138
ALKALIN	-0.098448	0.0313543
PH	-0.386362	-0.046369
NO3	-0.05569	-0.033232
TOTAL INDEX	-0.276833	-0.212325
LAKENUM	-0.22017	0.105677
BAGRIC	-0.264288	0.154055
BRAN	-0.213526	-0.011834
SAGRIC	-0.289725	0.152244
SRAN	-0.26681	-0.213584
RECA	0.182165	0.293965
REMUTE	0.129251	0.17751
DEV	1.	0.622227
RCACA	0.053882	1.

Figure E-9. Correlation Matrix for South High Elevation Lakes

	CHLA	CRGCCNT	CCCP	TSS	COLOR	SECCHI	TURBID
CHLA	1.	0.556236	-0.045005	0.259175	0.423375	0.220432	-0.024401
CRGCCNT	0.556336	1.	-0.172321	0.113889	0.245339	0.098808	-0.170593
UDOR	-0.045039	0.172321	1.	0.196828	-0.019154	-0.203308	-0.126299
TSS	0.259175	0.113889	0.196828	1.	0.045756	0.927112	0.094197
COLOR	0.423375	0.245339	-0.015165	0.045756	1.	-0.026538	0.316867
SECCHI	0.220432	0.098808	-0.203308	0.927112	-0.026538	1.	0.251369
TURBID	-0.024401	0.170593	-0.126299	0.094197	0.316867	0.251369	1.
NTOTAL	0.178228	0.032428	-0.133369	0.183686	0.166721	0.349688	0.922744
CONDCLCT	0.049167	0.150579	-0.133369	0.069598	0.26795	0.460559	0.79577
ALKALIN	0.325794	-0.270331	-0.133369	0.391087	0.133411	0.375169	0.325371
PH	0.176831	-0.293424	-0.062508	0.277108	0.050959	0.278881	0.334467
NO3	0.273352	-0.642512	-0.242205	0.249777	0.26795	-0.210273	0.247231
TOTAL INDEX	0.518395	-0.02671	-0.034378	0.519474	0.270568	0.520245	-0.105915
LAKENUM	-0.149915	0.330624	-0.124496	0.698	0.329478	0.774353	0.599436
BAGRIC	0.003838	-0.423118	-0.28835	0.353888	-0.088218	0.297432	-0.149877
BRAN	0.213217	-0.161194	-0.305373	0.155718	0.267914	0.331455	-0.417228
SAGRIC	-0.044093	-0.168148	-0.380336	0.11805	0.099688	0.386099	0.385955
SRAN	-0.145312	-0.237462	-0.324273	0.411805	-0.169744	0.320761	0.045257
RECA	-0.031355	-0.126151	-0.033981	-0.220761	-0.114049	-0.292333	-0.113351
REMGTE	-0.21273	-0.279818	-0.034473	0.052517	-0.240358	-0.007549	-0.062167
DEV	0.473653	0.188894	-0.115851	-0.171242	0.089558	0.079432	-0.055659
RCADA	-0.05467	0.255078	-0.032152	-0.467687	-0.329912	-0.536592	-0.223758

	PTOTAL	NTOTAL	CONDCLCT	ALKALIN	PH	NO3	TOTAL INDEX
CHLA	-0.178228	0.049167	-0.325794	0.176831	0.273352	0.259626	0.518395
CRGCCNT	0.032428	0.190579	-0.270331	-0.293424	0.642512	-0.02671	0.330624
UDOR	-0.133369	-0.108159	-0.025086	-0.063338	0.242205	0.043478	-0.128498
TSS	0.183686	0.347062	0.391087	0.277108	-0.249777	0.519474	0.698
COLOR	0.166721	0.069598	-0.133411	-0.050959	0.26795	-0.270568	0.309478
SECCHI	0.349688	0.460559	0.375169	0.278881	-0.210273	0.520245	0.774353
TURBID	0.922744	0.79577	-0.125371	0.034467	0.247231	-0.105915	0.599436
PTOTAL	1.	0.897306	-0.130176	0.076445	0.075001	0.010421	0.547859
NTOTAL	0.049167	1.	0.082642	0.040226	0.073635	0.308474	0.693279
CONDCLCT	-0.325794	0.082642	1.	0.870919	-0.460347	-0.545198	0.469041
ALKALIN	0.176831	0.040226	0.870919	1.	-0.451151	0.545198	0.439223
PH	0.273352	0.073635	-0.460347	-0.451151	1.	-0.172402	0.499352
NO3	0.259626	0.308474	0.750445	0.545198	-0.172402	1.	0.499352
TOTAL INDEX	0.518395	0.693279	0.469041	0.439223	0.499352	0.499352	1.
LAKENUM	-0.089466	-0.211812	0.345187	0.414067	-0.046422	-0.008063	0.061811
BAGRIC	0.003266	-0.017461	0.324576	0.402503	-0.365469	0.155483	0.150555
BRAN	0.213217	0.373654	0.143287	0.09259	0.32047	0.164801	0.424936
SAGRIC	-0.161948	0.138917	0.324006	0.37794	-0.537969	0.066478	0.271386
SRAN	-0.111687	-0.159288	-0.158028	-0.166723	0.429711	0.33883	-0.235212
RECA	-0.091223	-0.080807	-0.300916	-0.441514	-0.111477	-0.12397	-0.318977
REMGTE	-0.195319	-0.256151	0.10508	0.053348	-0.147418	0.250329	-0.022628
DEV	0.473653	0.098237	0.436264	0.246398	-0.349291	0.476423	0.264261
RCADA	-0.281553	-0.268377	-0.424024	-0.215111	0.207764	-0.436835	-0.45276

	LAKENUM	BAGRIC	BRAN	SAGRIC	SRAN	RECA	REMGTE
CHLA	-0.145915	-0.003838	0.213217	-0.044093	-0.145312	-0.031355	-0.21273
CRGCCNT	-0.423118	-0.161194	0.168148	-0.237462	-0.047041	0.126151	-0.279818
UDOR	0.28635	-0.305373	0.380336	0.34273	0.410007	0.035981	-0.023973
TSS	0.353888	0.286686	0.155718	-0.411805	0.324227	-0.220761	-0.032517
COLOR	0.088218	-0.267914	0.405688	-0.169744	-0.114049	-0.181403	-0.240358
SECCHI	0.297432	0.314525	0.105352	0.386099	0.292333	0.302733	-0.007549
TURBID	-0.149336	-0.108775	0.417228	0.085595	-0.045257	-0.113012	0.062167
PTOTAL	-0.089466	-0.043266	0.331115	0.161948	-0.111687	0.080807	0.195319
NTOTAL	-0.211812	0.017461	0.173654	0.138917	0.159288	-0.080807	0.296191
CONDCLCT	0.345187	0.324576	0.173654	0.320406	0.58028	0.300916	0.10908
ALKALIN	0.414067	0.402503	0.09259	0.37794	-0.166723	-0.441514	0.33348
PH	0.795623	0.565469	0.332047	-0.537969	0.429711	0.111477	-0.147418
NO3	-0.008063	0.155483	0.164801	0.066478	0.33883	-0.12397	0.250329
TOTAL INDEX	0.061811	0.150555	0.424936	0.271386	-0.235212	-0.318837	-0.022628
LAKENUM	1.	0.700628	-0.324888	0.683644	-0.539417	-0.148683	-0.149166
BAGRIC	0.003838	1.	0.608375	0.800025	0.713867	-0.430434	-0.32431
BRAN	-0.324888	-0.608375	1.	-0.444409	0.513083	0.097224	0.221643
SAGRIC	0.683644	0.800025	-0.444409	1.	-0.882851	-0.420472	-0.188219
SRAN	-0.539417	-0.713867	0.513083	-0.882851	1.	0.148329	0.274859
RECA	-0.148683	-0.400434	0.097224	-0.420472	0.148329	1.	-0.090709
REMGTE	-0.149369	-0.02431	0.097224	0.188219	0.274859	-0.090709	1.
DEV	0.009573	0.006879	0.006879	0.054333	-0.172927	0.375501	0.388108
RCADA	-0.155696	0.244916	-0.426132	0.062351	-0.183927	-0.146104	0.070622

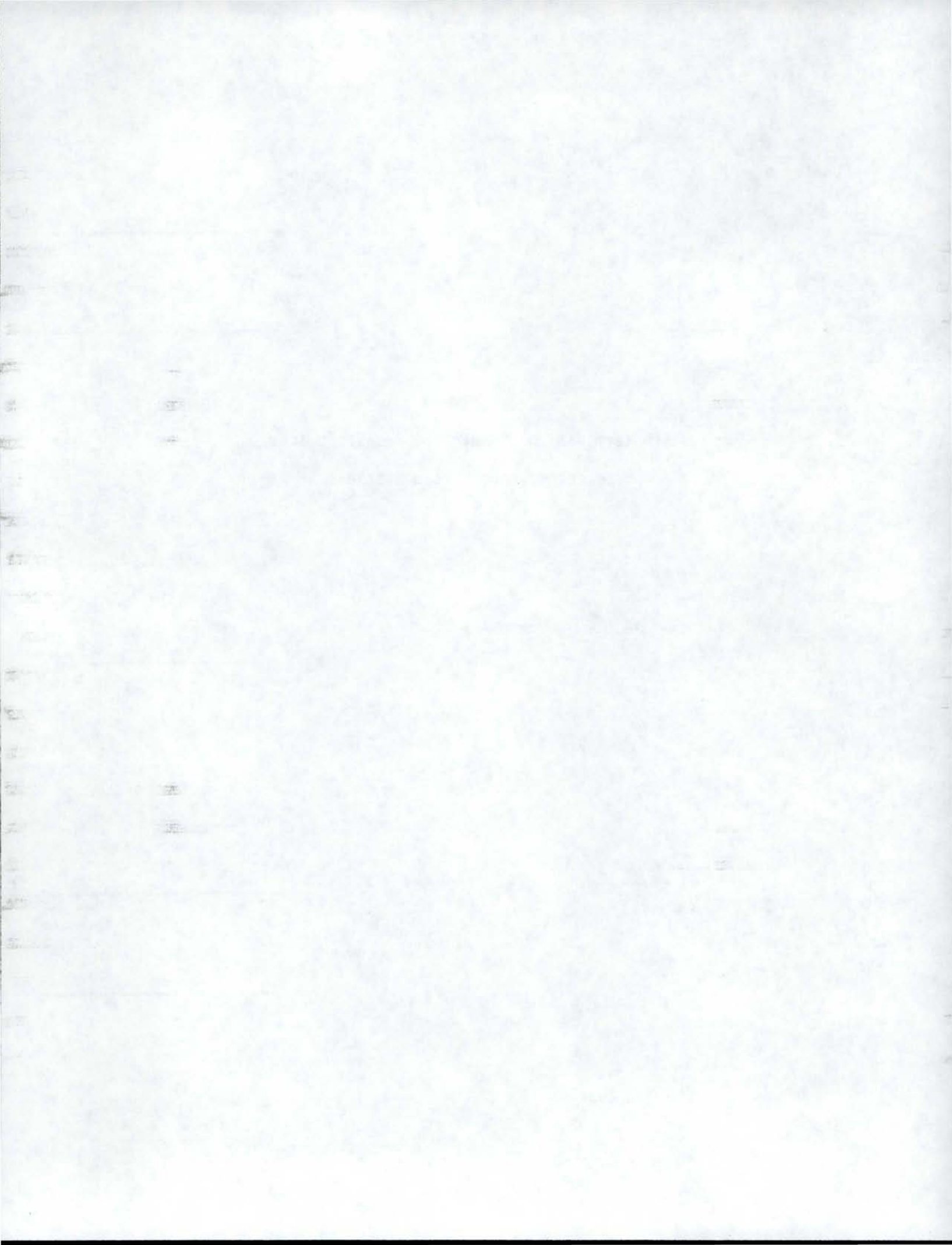
	DEV	RCADA
CHLA	0.473653	-0.05467
CRGCCNT	0.188894	-0.255078
UDOR	0.115851	-0.032152
TSS	0.171242	-0.467687
COLOR	-0.045756	-0.029912
SECCHI	0.079432	-0.536592
TURBID	-0.095654	-0.223758
PTOTAL	-0.126591	-0.281553
NTOTAL	0.098237	-0.268377
CONDCLCT	0.436264	-0.424024
ALKALIN	0.296398	-0.261511
PH	-0.049291	-0.207764
NO3	0.476423	-0.436835
TOTAL INDEX	0.264261	-0.45276
LAKENUM	-0.009573	-0.155696
BAGRIC	0.006879	-0.244916
BRAN	0.106403	-0.429132
SAGRIC	0.054333	-0.062351
SRAN	-0.172927	-0.183927
RECA	0.375501	-0.146104
REMGTE	-0.388108	-0.000622
DEV	1.	-0.271713
RCADA	-0.271713	1.

Figure E-10. Correlation Matrix for South Low Elevation Lakes



APPENDIX F

Determination of Nutrient Transport at  
Selected Idaho Stream Stations



Information regarding the nutrient loading of certain streams around the State of Idaho was investigated as a possible means of augmenting the development of stress indices for the 85-lake subset. More specifically, the long term average amount of nitrogen and phosphorous being carried into these lakes was needed in order to develop nutrient loading index for those lakes. Therefore, work was undertaken to develop and execute a methodology for determining the nutrient loading on as many of the required streams as possible. This description serves as guide to understanding both the methodology used and the results of the execution of this methodology.

The task was divided into four main areas of endeavor. First, it was necessary to discern a general relationship between the magnitude of flow and the quantity of nutrient (total nitrogen and total phosphorus) transported in any given stream. A second step was to locate and access whatever data we could find regarding streamflow and nutrient concentrations for as many of the priority streams as possible (priority stream meaning any stream discharging into one of the 85 lakes). The third step was to take the general relationship found above and develop it into a specific relationship for each of the priority streams. The last step was to combine the specific relationship, the stream flow data, and the water quality data in such a fashion as to produce quantified amounts of these nutrients transported in each of the priority streams on a long-term yearly average.

Several possible relationships were examined in an effort to accomplish the first of these tasks. Three streams (for which flow and nutrient

data were readily available) were selected for use as test streams to test each of the possible relationships. Data files containing the flows with their corresponding nutrient concentrations were created and stored on disk with the University of Idaho computer system. Then the various relationships were tested statistically.

Some of the relationships looked at were: 1) nutrient concentration as a function of discharge only in both a linear and nonlinear form, 2) logarithmic transformation of nutrient concentration as a function of the logarithm of discharge only, again in both a linear and nonlinear form, and 3) the logarithm of the quantity of nutrient transported per day as a function of the logarithm of the discharge only in a linear form. The third relationship was found to be the most promising. Linear regressions of  $\log(\text{quantity transported})$  on  $\log(\text{discharge})$  were found to produce  $r^2$  values frequently in the 90 percent range. The result was a general relationship of the form  $\log(\text{Nutrient Transport}) = m \log(\text{discharge}) + b$ , which yields an equation of the form.

$$\text{Nutrient Transport (mass/time)} = 10^b (\text{discharge volume/time})^m,$$

Where  $b$  and  $m$  are constants for a particular stream location. The next step was to find the data for each of the priority streams. The water quality data were taken from the recent editions of the United States Geological Survey publication Water Resources Data for Idaho. The streamflow data were taken from HISARS (Hydrologic Information Storage and Retrieval System) accessed through the campus computer system.

With the water quality data and the general relationship described above, a unique relationship between nutrient transport and discharge was

developed for each of the stations having sufficient data available. Data files containing the discharge and the corresponding nutrient concentration for each of the stations were created. Then a SAS program was used to read the data file, transform the data, and perform the linear regression for each nutrient for each station. The results of the linear regressions represent the water quality data in a usable form.

Next the streamflow data had to be made usable. First the HISARS Daily Statistics Package was used to compute the mean daily discharge for each station for each month of the year along with the corresponding standard deviation. This was done in order to find the range of flow to be expected for each of the stations, thus serving as a guide in the preparation of a flow duration table for each station. Out of the twelve mean and standard deviation figures produced for each station the minimum and maximum means were selected. Then the equations:

$$\text{Maximum Flow} = (\text{Max Mean}) + 3\sigma$$

$$\text{Minimum Flow} = (\text{Min Mean}) + 3\sigma$$

were used to find the minimum and maximum flow for each station. From this information, about 30 increments of flow were selected for each station to be specified in the construction of the flow duration tables. The flow duration tables were constructed using the HISARS Flow Duration package.

Next, a FORTRAN program was written to combine the stream flow data (in the form of the flow duration tables) with the water quality data (in the form of the SAS linear regression results). The function of the program is to make the computations shown in tabular form in Table F-1. In essence these computations combine the flows and the transport function (from the linear regressions) to produce a quantity transported, with the

result being the amount of material transported relative to the flow probabilities. This function is then integrated numerically by summing the product of the incremental percent of time and the quantity of material transported at the corresponding daily flow rate. The summation is the long-term daily average of nutrient transported. To better illustrate this, refer to the sample calculations for Station 13077000 in Table F-1. Column (1) and Column (2) are obtained from the flow duration table. Column (3) is obtained by inserting the flows in Column (2) into the nutrient transport equation unique to this station (developed with the SAS linear regressions). Column (4) is the average value of the nutrient transported for the time increment found by subtracting the preceding value in Column (1) from the subsequent value in Column (1) and shown in Column (5). In other words the values in Column (4) are the average of the values in Column (3) immediately above and below the corresponding value in Column (4). Column (6) is the product of Column (4) and Column (5), and represents the total amount of material transported in the corresponding time interval. The numbers in Column (6), when summed, will total the long term daily average amount of nutrient transported in the stream past the indicated station.

This program was run for each station listed in the U.S.G.S. Water Resources Data for Idaho for which sufficient water quality data exist. The results are shown in Table F-2 which displays the station number and location, the years of streamflow data used in the flow-duration computations, the years of water quality data used in the streamflow vs. nutrient concentration relationships and the correlation coefficient for each of these relationships. Table F-2 also shows the regression equation

coefficients and the mean daily nutrient transport as pounds per day. These nutrient transport values were used to assess the validity of the Omernick nutrient level model for the streams identified in Table F-2.

Table F-1. Nutrient Transport Computations

The nutrient transport loads for phosphorous and nitrogen are computed below for Station 13077000.

(1) % of Time Flow Equaled or Exceeded	(2) Flow (cfs)	(3) Phosph. Load (#/day)	(4) Avg P Load for Time Interval (#/day)	(5) Time Interval (%)	(6) Amount of Phosphorous Transported (pounds)
89.5	750	326	459.5	3.9	17.92
85.6	1,500	593	717.5	2.5	17.93
83.10	2,250	842	960.5	5.5	52.83
77.60	3,000	1,079	1193.5	3.4	40.58
74.20	3,750	1,308	1419.5	5.5	78.07
68.70	4,500	1,531	1746.5	4.5	78.59
64.20	6,000	1,962	2067	8.2	169.49
56.00	6,750	2,172	2275	4.8	109.2
51.20	7,500	2,378	2480	5.0	124.0
46.20	8,250	2,582	2683	3.9	104.64
42.30	9,000	2,784	2883.5	3.8	109.57
38.50	9,750	2,983	3081.5	4.0	123.26
34.50	10,500	3,180	3277.5	5.1	167.15
29.40	11,250	3,375	3471.5	5.6	194.4
23.80	12,000	3,568	3664	7.0	256.48
16.80	12,750	3,760	3855	4.3	165.76
12.50	13,500	3,950	4044.5	2.5	101.11
10.00	14,250	4,139	4232.5	0.8	33.86
9.20	15,000	4,326	4511.5	1.7	76.70
7.50	16,500	4,697	4880	1.7	82.96
5.80	18,000	5,063	5244	2.4	125.86
3.40	19,500	5,425	5604	1.0	56.04
2.40	21,000	5,784	5961.5	0.8	47.69
1.60	22,500	6,139	6314.5	0.6	37.89
1.00	24,000	6,490	6664.5	0.3	19.99
0.70	25,500	6,839	7012	0.4	28.05
0.30	27,000	7,185	7356.5	0.1	7.36
0.20	28,500	7,528	7698	0.2	15.40
0.0	30,000	7,868			
			TOTAL	89.5%	<u>2442.8#/day</u>

The computer program computed the phosphorous transported to be 2474.1#/day. These numbers are within 1.2%, so the discrepancy is probably rounding error in the calculator.



Table F-1. Nutrient Transport Computations (continued)

Nitrogen Load (#/day)	Avg Nitrogen Load for Time Interval	Amount of Nitrogen Transported (pounds)
5,070		
8,628	6,849	267.1
11,775	10,201.5	255.0
	13,229	727.6
14,683		
17,424	16,053	545.8
20,039	18,731	1030.2
	22,513	1031.1
24,987		
27,349	26,168	2146
29,651	28,545	1370.2
	30,775	1538.8
31,900		
34,102	33,001	1287.0
36,261	35,181	1336.9
	37,321	1492.9
38,382		
40,467	39,424	2010.6
42,521	41,494	2323.7
	43,533	3047.3
44,545		
46,541	45,543	1958.3
48,512	47,526	1188.2
	49,485	395.9
50,458		
54,285	52,371	890.3
58,032	56,158	954.7
	59,869	1436.9
61,706		
65,315	63,510	635.1
68,864	67,089	536.7
	70,611	423.7
72,359		
75,803	74,081	222.2
79,200	77,501	310.0
	80,877	80.9
82,554		
85,866	84,210	168.4

The columns for "% of time flow equaled or exceeded", "Flow", and "Time Interval" have been omitted because they are identical to those shown on the preceding page.

The N transport figure computed here is within one-half percent of that value computed by the computer.

Total N = 29,593#/day

Table F-2. Nutrient Transport for Selected Idaho Stream Stations

Station Number and Description	No. of Years of S.F. Data	No. of Years of W.Q. Data	Nitrogen Transported	R <sup>2</sup> for N-Trans	Phosphorous Transported	R <sup>2</sup> for P-Trans
(1) 12392300 Pack River near Colburn, Idaho	20	7	Dissolved $\text{NO}_2 + \text{NO}_3$ 57#/day as N a = 0.110 b = 1.13*	0.93	Total Phos 56#/day as P c = 0.0129 d = 1.49*	0.93
(2) 12413000 Coeur d'Alene River @ Enaville, Idaho	67	8	Total Nitrogen 1450#/day as N a = 1.29 b = 0.989	0.59	Total Phos 174#/day as P c = 0.317 d = 0.896	0.55
(3) 12413250 So. Fork of Coeur d'Alene R.@Kellogg, ID	5	9	Dissolved $\text{NO}_2 + \text{NO}_3$ 182#/day as N a = 25.1 b = 0.396	0.50	Total Phos 33.2#/day as P c = 0.428 d = 0.824	0.62
(4) 12414900 St. Maries River near Santa, Idaho	13	8	Dissolved $\text{NO}_2 + \text{NO}_3$ 34#/day as N a = 0.144 b = 1.01	0.75	Total Phos. 63#/day as P c = 0.0944 d = 1.18	0.91
(5) 12416000 Hayden Creek @ Hayden Lake, Idaho	14	8	Dissolved $\text{NO}_2 + \text{NO}_3$ 4.9#/day as N a = 0.947 b = 0.653	0.29	Total Phos 2.5#/day as P c = 0.194 d = 0.940	0.51
(6) 13027500 Salt River above Res. near Etna, Wyoming	26	7	Dissolved $\text{NO}_3$ 152#/day as N a = 0.0264 b = 1.38	0.56	Total Phos 2850#/day as P c = 4.84 d = 1.027	0.47
(7) 13063000 Blackfoot River above Res., near Henry, Id	65	8	Dissolved $\text{NO}_2 + \text{NO}_3$ 114#/day as N a = 0.170 b = 1.34	0.56	Total Phos 123#/day as P c = 0.0116 d = 1.82	0.85
(8) 13069500 Snake River near Blackfoot, Idaho	18	8	Dissolved $\text{NO}_2 + \text{NO}_3$ 4940#/day as N a = 1.35 b = 1.0093	0.71	Total Phos. 2010#/day as P c = 0.0177 d = 1.41	0.85
(9) 13075500 Portneuf River @ Pocatello, Idaho	18	8	Dissolved $\text{NO}_2 + \text{NO}_3$ 1370#/day as N a = 0.0479 b = 1.865	0.82	Total Phos 230#/day as P c = 0.0179 d = 1.73	0.89
(10) 13077000 Snake River @ Neely, Idaho	18	8	Total Nitrogen 29,500#/day as N a = 44.2 b = 0.767	0.80	Total Phos 2470#/day as P c = 1.57 d = 0.863	0.68
(11) 13082500 Goose Creek above Trapper Creek	67	8	Dissolved $\text{NO}_2 + \text{NO}_3$ 70#/day as N a = 0.10 b = 1.73	0.66	Total Phos 51#/day as P c = 0.322 d = 1.40	0.89
(12) 13083000 Trapper Creek near Oakley, Idaho	68	8	Dissolved $\text{NO}_2 + \text{NO}_3$ 17.9#/day as N a = 0.0132 b = 2.75	0.80	Total Phos 5.5#/day as P c = 0.0314 d = 2.08	0.87
(13) 13112000 Camas Creek @ Camas, Idaho	54	7	Dissolved $\text{NO}_3 + \text{NO}_2$ 11.9#/day as N a = 0.693 b = 0.960	0.72	Total Phos 8.6#/day as P c = 1.04 d = 0.788	0.80

\*N-Trans =  $a \times q^b$  and P-Trans =  $c \times Q^d$  where Trans. is material transported in #/day and Q is discharge in MGD

Table F-2. Nutrient Transport for Selected Idaho Stream Stations (continued)

Station Number and Description	No. of Years of S.F. Data	No. of Years of W.Q. Data	Nitrogen Transported	R <sup>2</sup> for N-Trans	Phosphorous Transported	R <sup>2</sup> for P-Trans
(14) 13127000 Big Lost R. below Mackay Res near Mackay	59	7	Dissolved NO <sub>2</sub> + NO <sub>3</sub> 69#/day as N a = 5.11 b = 0.516*	0.07	Total Phos 30#/day as P c = 0.144 d = 1.01*	0.75
(15) 13141000 Big Wood River near Bellevue, Idaho	19	7	Dissolved NO <sub>2</sub> + NO <sub>3</sub> 184#/day as N a = 0.550 b = 1.08	0.51	Total Phos 117#/day as P c = 0.0104 d = 1.62	0.92
(16) 13141500 Camas Creek near Blaine, Idaho	67	7	Dissolved NO <sub>2</sub> + NO <sub>3</sub> 170#/day as N a = 31.7 b = 0.462	0.84	Total Phos 76#/day as P c = 0.267 d = 1.15	0.93
(17) 13148500 Little Wood R near Carey, Idaho	53	7	Dissolved NO <sub>2</sub> + NO <sub>3</sub> 140#/day as N a = 3.24 b = 0.848	0.71	Total Phos 29.7#/day as P c = 0.336 d = 0.987	0.93
(18) 13168500 Bruneau River near Hot Springs, Idaho	70	8	Dissolved NO <sub>2</sub> + NO <sub>3</sub> 324#/day as N a = 1.013 b = 1.036	0.83	Total Phos 125#/day as P c = 0.0216 d = 1.49	0.76
(19) 13185000 Boise River near Twin Springs, Idaho	68	7	Dissolved NO <sub>2</sub> + NO <sub>3</sub> 147#/day as N a = 0.170 b = 1.016	0.51	Total Phos 107#/day as P c = 0.00632 d = 1.42	0.88
(20) 13200000 Mores Creek Robie Cr near Arrowrock Dam	28	7	Dissolved NO <sub>2</sub> + NO <sub>3</sub> 86#/day as N a = 0.100 b = 1.25	0.67	Total Phos 40#/day as P c = 0.491 d = 0.857	0.72
(21) 13202000 Boise River near Boise, Idaho	72	8	Dissolved NO <sub>2</sub> + NO <sub>3</sub> 1420#/day as N a = 3.30 b = 0.814	0.95	Total Phos 561#/day as P c = 0.0544 d = 1.21	0.95
(22) 13239000 No. Fork of Payette R at McCall, Idaho	68	7	Dissolved NO <sub>2</sub> + NO <sub>3</sub> 34.5#/day as N a = 0.158 b = 0.989	0.82	Total Phos 41.9#/day as P c = 0.207 d = 0.977	0.84
(23) 13245000 No. Fork of Payette R @ Cascade, Idaho	19	7	Dissolved NO <sub>2</sub> + NO <sub>3</sub> 276#/day as N a = 1.37 b = 0.827	0.45	Total Phos 174#/day as P c = 0.943 d = 0.814	0.57
(24) 13290450 Snake River @ Hell's Canyon Dam	14	10	Total Nitrogen 113,000#/day as N a = 4.56 b = 1.06	0.50	Total Phos 8500#/day as P c = 0.0727 d = 1.22	0.72
(25) 13022500 Snake River above Res. @ Alpine, Wyo	42	9	Total Nitrogen 8260#/day as N a = 0.123 b = 1.37	0.64	Total Phos 600#/day as P c = 0.0192 d = 1.28	0.80

\*N-Trans = a x Q<sup>b</sup> and P-Trans = c x Q<sup>d</sup> where Trans. is material transported in #/day and Q is discharge in MGD

Table F-2. Nutrient Transport for Selected Idaho Stream Stations (continued)

Station Number and Description	No. of Years of S.F. Data	No. of Years of W.Q. data	Nitrogen Transported	R <sup>2</sup> for N-Trans	Phosphorous Transported	R <sup>2</sup> for P-Trans
(26) 10039500 Bear River at Border, WY	19	10	NO <sub>2</sub> + NO <sub>3</sub> 287#/day as N a = 0.889* b = 1.017	0.54	Total Phos 199#/day as P c = 0.0173 d = 1.574*	0.66
(27) 12305000 Kootenai River @ Leonia, ID	36	10	NO <sub>2</sub> + NO <sub>3</sub> 5760#/day as N a = 1.27 b = 0.928	0.36	Total Phos 5120 #/day as P c = 0.557 d = 1.002	0.53
(28) 12318500 Kootenai River @ Copeland, ID	50	10	Total Nitrogen 26,400#/day as N a = 0.105 b = 1.33	0.53	Total Phos 2500#/day as P c = 0.909 d = 0.866	0.31
(29) 13037500 Snake River near Heise, ID	69	10	NO <sub>2</sub> + NO <sub>3</sub> 4350#/day as N a = 4.88 b = 0.814	0.37	Total Phos 1160#/day as P c = 0.0131 d = 1.34	0.61
(30) 13058000 Willow Creek near Ririe, ID	17	10	NO <sub>2</sub> + NO <sub>3</sub> 79.6#/day as N a = 0.777 b = 1.00	0.46	Total Phos 121#/day as P c = 0.210 d = 1.31	0.87
(31) 13154500 Snake River @ King Hill, ID	70	10	NO <sub>2</sub> + NO <sub>3</sub> 51,700#/day as N a = 1150 b = 0.432	0.63	Total Phos 4770#/day as P c = 0.0102 d = 1.47	0.64
(32) 13213000 Boise River near Parma, ID	8	9	Total Nitrogen 14,800#/day as N a = 206 b = 0.626	0.52	Total Phos 2150#/day as P c = 25.8 d = 0.647	0.70
(33) 13269000 Snake River @ Weiser, ID	69	10	Total Nitrogen 113,000#/day as N a = 172 b = 0.696	0.39	Total Phos 10,900#/day as P c = 0.524 d = 1.06	0.56

\*N-Trans = a x Q<sup>b</sup> and P-Trans = c x Q<sup>d</sup> where Trans. is material transported in #/day and Q is discharge in MGD.

