TABLE OF CONTENTS

1. DATA SET IDENTIFICATION
2. INVESTIGATOR INFORMATION
3. DATA SET ABSTRACT
4. OBJECTIVES AND INTRODUCTION
5. DATA ACQUISITION AND PROCESSING METHODS
6. DATA MANIPULATIONS
7. DATA DESCRIPTION
8. GEOGRAPHIC AND SPATIAL INFORMATION
9. QUALITY CONTROL / QUALITY ASSURANCE
10. DATA ACCESS
11. REFERENCES
12. TABLE OF ACRONYMS
13. PERSONNEL INFORMATION

1. DATA SET IDENTIFICATION

1.1 Title of Catalog Document
EMAP Surface Waters Lake Database
Lake Zooplankton Names Data

1.2 Authors of the Catalog Entry
U.S. EPA NHEERL Western Ecology Division
Corvallis, OR

1.3 Catalog Revision Date
November 1996

1.4 Data Set Name
ZOONAM

1.5 Task Group
Surface Waters

1.6 Data Set Identification Code
0115
1.8 Requested Acknowledgment
These data were produced as part of the U.S. EPA's Environmental Monitoring and Assessment Program (EMAP). If you publish these data or use them for analyses in publications, EPA requires a standard statement for work it has supported:

"Although the data described in this article have been funded wholly or in part by the U.S. Environmental Protection Agency through its EMAP Surface Waters Program, it has not been subjected to Agency review, and therefore does not necessarily reflect the views of the Agency and no official endorsement of the conclusions should be inferred."

2. INVESTIGATOR INFORMATION

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2.2 Investigation Participant - Sample Collection
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Oregon State University
SUNY Syracuse College of Environmental Sciences and Forestry
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University of Maine
U.S. Fish and Wildlife Service
U.S. Environmental Protection Agency
    Office of Research and Development
    Regions 1 and 2

3. DATA SET ABSTRACT

3.1 Abstract of the Data Set
The primary function of the lake zooplankton data are to provide a snapshot of the zooplankton assemblage present in the lake at the time of sampling. The zooplankton community represents an integral component of lake biological integrity and represents a snapshot of a publicly visible reflection of lake quality.

3.2 Keywords for the Data Set
Zooplankton assemblage, Zooplankton community, Zooplankton species identification

4. OBJECTIVES AND INTRODUCTION

4.1 Program Objective
The Environmental Monitoring and Assessment Program (EMAP) was designed to periodically estimate the status and trends of the Nation's ecological resources on a regional basis. EMAP provides a strategy to identify and bound the extent, magnitude and location of environmental degradation and improvement on a regional scale based on a probability-based statistical survey design.
4.2 Data Set Objective
This data set is part of a demonstration project to evaluate approaches to monitoring lakes in EMAP. The data set contains the results of a single mid-lake vertical tow of the zooplankton assemblage taken during mid-summer.

4.3 Data Set Background Discussion
The zooplankton community within a lake is an integral component of lake biological integrity. This data set contains a list of species and species code of each species collected at each lake sampled.

4.4 Summary of Data Set Parameters
This dataset is used to link species codes in the zooplankton count data with the species name of the potential zooplankton species collected.

5. DATA ACQUISITION AND PROCESSING METHODS

5.1 Data Acquisition

5.1.1 Sampling Objective
To obtain a sample of the zooplankton assemblage within a lake during a two month sampling window from July through mid-September.

5.1.2 Sample Collection Methods Summary
The assemblage was sampled using a bongo net with coarse (202 micron) and fine (48 micron) mesh nets towed vertically from near the bottom of the lake to the surface at the deepest point within the lake.

5.1.3 Sampling Start Date
July 1991

5.1.4 Sampling End Date
September 1994

5.1.5 Platform
Sampling was conducted from small boats.

5.1.6 Sampling Gear
Bongo net with coarse (202 micron) and fine (48 micron) mesh nets.

5.1.7 Manufacturer of Instruments
NA

5.1.8 Key Variables
NA

5.1.9 Sampling Method Calibration
NA

5.1.10 Sample Collection Quality Control
See Baker et al. (1997).

5.1.11 Sample Collection Method Reference
5.1.12 Sample Collection Method Deviations
NA

5.2 Data Preparation and Sample Processing
5.2.1 Sample Processing Objective
See Baker et al. (1997) and Chaloud and Peck (1994).

5.2.2 Sample Processing Methods Summary
See Baker et al. (1997) and Chaloud and Peck (1994).

5.2.3 Sample Processing Method Calibration
See Baker et al. (1997) and Chaloud and Peck (1994).

5.2.4 Sample Processing Quality Control
See Baker et al. (1997) and Chaloud and Peck (1994).

5.2.5 Sample Processing Method Reference
See Baker et al. (1997) and Chaloud and Peck (1994).

6. DATA MANIPULATIONS

6.1 Name of New or Modified Values
None.

6.2 Data Manipulation Description

7. DATA DESCRIPTION

7.1 Description of Parameters
Parameter Data  Parameter
# Name   Type  Len Format Label
-----------------------------------------
2 SPPNAME  Char  50  Zooplankton Species Name
1 TAXACODE Char  8   EMAP code for zooplankton taxa

7.1.1 Precision to Which Values are Reported
NA

7.1.2 Minimum Value in Data Set by Parameter
NA

7.1.3 Maximum Value in Data Set by Parameter
NA

7.2 Data Record Example

7.2.1 Column Names for Example Records
SPPNAME  TAXACODE
7.2.2     Example Data Records
"Trichocerca myersi","TRICMYE"
"Trichocerca insignis","TRICOIN"
"Trichocerca sp.","TRICOSP"
"Trichocerca platessa","TRICPLA"
"Trichocerca porcellus_","TRICPOR"

8.     GEOGRAPHIC AND SPATIAL INFORMATION

8.1 Minimum Longitude
NA

8.2 Maximum Longitude
NA

8.3 Minimum Latitude
NA

8.4 Maximum Latitude
NA

8.5 Name of Area or Region
Northeast: EPA Regions I and II which includes Connecticut, Massachusetts, Maine, New Hampshire, New Jersey, New York, Vermont, Rhode Island

9.     QUALITY CONTROL / QUALITY ASSURANCE

9.1 Data Quality Objectives
See Chaloud and Peck (1994)

9.2 Quality Assurance Procedures
See Chaloud and Peck (1994)

9.3 Unassessed Errors
NA

10.    DATA ACCESS

10.1 Data Access Procedures

10.2 Data Access Restrictions

10.3 Data Access Contact Persons

10.4 Data Set Format

10.5 Information Concerning Anonymous FTP

10.6 Information Concerning Gopher and WWW

10.7 EMAP CD-ROM Containing the Data

11.    REFERENCES
12. TABLE OF ACRONYMS

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