

US EPA ARCHIVE DOCUMENT

CATALOG DOCUMENTATION
EMAP SURFACE WATERS PROGRAM LEVEL DATABASE
1991-1994 NORTHEAST LAKES DATA
LAKE BREEDING BIRD NAMES DATA

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1. DATA SET IDENTIFICATION

1.1 Title of Catalog Document
EMAP Surface Waters Lake Database
1991-1994 Northeast Lakes
Lake Breeding Bird 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
BRDNAM

1.5 Task Group
Surface Waters

1.6 Data Set Identification Code
0103

1.7 Version
001

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

2.1 Principal Investigator

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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
Queens University
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 bird count data set is to document the breeding bird species identified visually or auditorially at each lake.

3.2 Keywords for the Data Set

Breeding birds, avian species, riparian breeding birds, riparian habitat.

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 surveys of breeding birds found in the riparian zones of lakes in the Northeast at each lake during the spring breeding season.

4.3 Data Set Background Discussion

Riparian breeding birds are a key component of the lake ecosystem. Their use of the riparian zone for breeding is an indication of quality of lake riparian habitat.

4.4 Summary of Data Set Parameters

This dataset is used to link species codes in the breeding bird count data with the species name of the potential breeding bird species identified.

5. DATA ACQUISITION AND PROCESSING METHODS

5.1 Data Acquisition

5.1.1 Sampling Objective

The objective of the breeding bird survey was to identify the use of the riparian zone of lakes by birds during the spring breeding season.

5.1.2 Sample Collection Methods Summary

Breeding birds were identified at specified stops around the lake perimeter. These stops were accessed by boat. Visual and auditory identifications were made at each stop and habitat type identified. Data from stops were tabulated individually and then for the lake as a whole.

5.1.3 Sampling Start Date

May 1991

5.1.4 Sampling End Date

June 1995

5.1.5 Platform

Sampling was conducted from small boats.

5.1.6 Sampling Gear

Visual and auditory identification was made by the observer. Binoculars were used as part of the sampling gear for visual observations.

5.1.7 Manufacturer of Instruments

NA

5.1.8 Key Variables

Start and stop time of the survey were recorded. Vegetation type and weather were also recorded for each stop.

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

Baker, J.R., G.D. Merritt, and D.W. Sutton (eds.). 1997. Environmental Monitoring and Assessment Program - Surface Waters: Field Operations Manual for Lakes.

Chaloud, D.J. and D.V. Peck. 1994. Environmental Monitoring and Assessment Program - Surface Waters: Integrated Quality Assurance Project Plan for the Surface Waters Resource Group.

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

See Chaloud and Peck (1994).

7. DATA DESCRIPTION

7.1 Description of Parameters

#	Parameter Name	Data Type	Len	Format	Parameter Label
4	AOU	Num	8		Amer. Ornith. Union code
6	DIET	Char	2		Dietary guild
5	FEED	Char	2		Foraging guild
2	NAME_COM	Char	31		Common name
7	NEOTROP	Char	2		Neotrophic Migr. (NE) or Resident (RE)
9	ORDER	Char	16		Taxonomic Order
3	SCIENTIF	Char	26		Genus and species
1	SPECIES	Char	4		EMAP code for bird species
8	TOLER	Char	2		Tolerant (T0) or intolerant (IN)

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
AOU DIET FEED NAME_COM NEOTROP ORDER SCIENTIF SPECIES TOLER

7.2.2 Example Data Records
6270,"IN","HG","Warbling Vireo","NE","Passeriformes","Vireo
gilvus","WAVI","IN"
7270,"IN","BG","White-breasted Nuthatch","RE","Passeriformes","Sitta
carolinensis","WBNU","IN"
6310,"IN","FG","White-eyed Vireo","NE","Passeriformes","Vireo
griseus","WEVI","IN"
6390,"IN","FG","Worm-eating Warbler","NE","Passeriformes","Helmitheros
vermivorus","WEWA","IN"
4170,"IN","AF","Whip-poor-will","NE","Caprimulgiformes","Caprimulgus
vociferus","WHIP","IN"

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

Baker, J.R., G.D. Merritt, and D.W. Sutton (eds.). 1997. Environmental Monitoring and Assessment Program - Surface Waters: Field Operations Manual for Lakes. EPA/620/R-97/001. U.S. Environmental Protection Agency. Office of Research and Development. Washington, D.C.

Chaloud, D.J. and D.V. Peck. 1994. Environmental Monitoring and Assessment Program - Surface Waters: Integrated Quality Assurance Project Plan for the Surface Waters Resource Group. U.S. Environmental Protection Agency. Office of Research and Development.

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