

CATALOG DOCUMENTATION
EMAP SURFACE WATERS PROGRAM LEVEL DATABASE
1993-1996 MID-ATLANTIC STREAMS DATA
STREAM FISH NAMES DATA

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1. DATA SET IDENTIFICATION

1.1 Title of Catalog Document
EMAP Surface Waters Stream Database
1993-1996 Mid-Atlantic Streams
Stream Fish Names Data

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

1.3 Catalog Revision Date
January 1999

1.4 Data Set Name
FISHNAM

1.5 Task Group
Surface Waters

1.6 Data Set Identification Code
0125

1.7 Version
002

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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State of Virginia
State of West Virginia
State of Maryland
State of Pennsylvania
University of Maine
U.S. Fish and Wildlife Service
U.S. Environmental Protection Agency
Office of Research and Development
Region III

3. DATA SET ABSTRACT

3.1 Abstract of the Data Set

The primary function of the stream fish data are to provide a snapshot of the fish assemblage present in the stream at the time of sampling. The fish community represents an integral component of stream biological integrity and represents a snapshot of a publicly visible reflection of stream quality.

3.2 Keywords for the Data Set

Fish assemblage, fish community, fish 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 streams in EMAP. The data set contains the names and species codes of the fish sampled which resulted from a multi-habitat sample of the fish assemblage taken during spring low-flow.

4.3 Data Set Background Discussion

The fish community within a stream is an integral component of stream biological integrity and represents a publicly visible reflection of stream quality. This data set contains a list of species, codes, and assignments to classifications for the metrics.

4.4 Summary of Data Set Parameters

This datasets is used to link fish assemblage data, reported by abbreviated genus/species code, with the full family, genus and species names. The parameters include abbreviated genus/species code, common name, and scientific family, genus, and species name of fish species anticipated in the sampling area.

5. DATA ACQUISITION AND PROCESSING METHODS

5.1 Data Acquisition

5.1.1 Sampling Objective

To obtain a sample of the fish assemblage within a stream during a two month sampling window from April through mid-June.

5.1.2 Sample Collection Methods Summary

The assemblage was sampled using a single pass electrofishing distributed in multiple habitats throughout the stream.

5.1.3 Sampling Start Date

5.1.4 Sampling End Date

5.1.5 Platform

NA

5.1.6 Sampling Gear

Backpack electrofisher

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 Lazorchak, et al. 1998.

5.1.11 Sample Collection Method Reference

Lazorchak, J.M., Klemm, D.J., and Peck D.V. (editors). 1998. Environmental Monitoring and Assessment Program- Surface Waters: Field Operations and Methods for Measuring the Ecological Condition of Wadeable Streams. EPA/620/R-94/004F. U.S. Environmental Protection Agency, Washington, D.C.

Chaloud, D.J. and D.V. Peck. 1994. Environmental Monitoring and Assessment Program: Integrated Quality Assurance Project Plan for the Surface Waters Resource Group, 1994 Activities. EPA 600/X-91/080, Rev. 2.00. U.S. Environmental Protection Agency, Las Vegas, Nevada.

5.1.12 Sample Collection Method Deviations

5.2 DATA PREPARATION AND SAMPLE PROCESSING

5.2.1 Sample Processing Objective

See Lazorchak, et al. (1998) and Chaloud and Peck (1994).

5.2.2 Sample Processing Methods Summary

See Lazorchak, et al. (1998) and Chaloud and Peck (1994).

5.2.3 Sample Processing Method Calibration

See Lazorchak, et al. (1998) and Chaloud and Peck (1994).

5.2.4 Sample Processing Quality Control

See Lazorchak, et al. (1998) and Chaloud and Peck (1994).

5.2.5 Sample Processing Method Reference

See Lazorchak, et al. (1998) 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 Data			Parameter Label
	SAS Name	Type	Len Format	
7	COM_TAXA	Char	100	Comments
1	FAMILY	Char	20 \$	Family name
8	FAM_COM	Char	15	Family (Common Name)
2	GENUS	Char	20 \$	Scientific name (Genus)
4	NAME_COM	Char	30 \$	Common name
5	OLDCODE	Char	6	Old 6 char. Unique Species ID
3	SPECIES	Char	20 \$	Scientific name (Species)
6	VERTCODE	Char	8	Unique Species ID

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

"COM_TAXA", "FAMILY", "FAM_COM", "GENUS", "NAME_COM", "OLDCODE", "SPECIES", "VERTCODE"
"

7.2.2 Example Data Records

" ", "Centrarchidae", "Sunfish", "Acantharchus", "MUD
SUNFISH", "ACANPO", "pomotis", "ACANPOMO"
" ", "Acipenseridae", "Sturgeon", "Acipenser", "SHORTNOSE
STURGEON", "ACIPBR", "brevirostrum", "ACIPBREV"
" ", "Acipenseridae", "Sturgeon", "Acipenser", "LAKE
STURGEON", "ACIPFU", "fulvescens", "ACIPFULV"
" ", "Acipenseridae", "Sturgeon", "Acipenser", "GREEN
STURGEON", "ACIPME", "medirostris", "ACIPMEDI"
" ", "Acipenseridae", "Sturgeon", "Acipenser", "ATLANTIC
STURGEON", "ACIPOX", "oxyrhynchus", "ACIPOXYR"

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

Mid Atlantic: EPA Region III which includes Delaware, Maryland, New York, Virginia, and West Virginia

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

Lazorchak, J.M., Klemm, D.J., and Peck D.V. (editors). 1998. Environmental Monitoring and Assessment Program- Surface Waters: Field Operations and Methods for Measuring the Ecological Condition of Wadeable Streams. EPA/620/R-94/004F. U.S. Environmental Protection Agency, Washington, D.C.

Chaloud, D.J. and D.V. Peck. 1994. Environmental Monitoring and Assessment Program: Integrated Quality Assurance Project Plan for the Surface Waters Resource Group, 1994 Activities. EPA 600/X-91/080, Rev. 2.00. U.S. Environmental Protection Agency, Las Vegas, Nevada.

12. TABLE OF ACRONYMS

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