

CATALOG DOCUMENTATION EMAP SURFACE WATERS PROGRAM LEVEL DATABASE 1993-1996 MID-ATLANTIC STREAMS DATA STREAM FISH COUNT 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 Count Data Summarized by Stream

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 FISHCNT

1.5 Task Group Surface Waters

1.6 Data Set Identification Code 0123

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 Dr. John Stoddard U.S. Environmental Protection Agency NHEERL Western Ecology Division 200 S.W. 35th Street Corvallis, OR 97333

2.2 Investigation Participant - Sample Collection Oregon State University 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.

This data set is part of a demonstration project to evaluate approaches to monitoring streams in EMAP. The data set contains the results of 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 and counts of numbers of individuals of each species collected at each stream sampled. 4.4 Summary of Data Set Parameters Fish Assemblage parameters include abbreviated genus/species fish code and abundance collected or counted. 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 April 1993 Sampling End Date 5.1.4 September 1996 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 Sampling Method Calibration 5.1.9 NA 5.1.10 Sample Collection Quality Control See Lazorchak, et al. 1998. 5.1.11 Sample Collection Method Reference

4.2 Data Set Objective

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. 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 # SAS Name Type Len Format Label 7 COMMENT 30 Char Comments 8 COUNT Num 8 the sum, COUNT 8 MMDDYY Date of sample collection 6 DATE COL Num 5 SAMPLED Char 30 Site Sampled Code 1 STRM ID Char Stream ID 6 VERTCODE Char 4 8 8 letter species code 3 VISIT NO Visit Number Num 8 2 YEAR Num 8 Sample Year 7.1.6 Precision to which values are reported 7.1.7 Minimum Value in Data Set Name Min _ _ _ _ _ _ _ _ _ _ _ _ _ _ COUNT 0 DATE_COL 04/26/1993 VISIT NO 1 YEAR 1993

US EPA ARCHIVE DOCUMENT

Chaloud, D.J. and D.V. Peck. 1994. Environmental Monitoring and Assessment

7.1.8 Maximum Value in Data Set

Name Max -----COUNT 999 DATE COL 09/15/1996 VISIT NO 2 YEAR 1996 7.2 Data Record Example 7.2.1 Column Names for Example Records "COMMENT", "COUNT", "DATE_COL", "SAMPLED", "STRM_ID", "VERTCODE", "VISIT_NO", "YEAR" 7.2.2 Example Data Records " ",2,05/17/1994, "Yes", "DE750S", "AMEINATA",1,1994
" ",1,05/17/1994, "Yes", "DE750S", "AMEINEBU",1,1994
" ",1,05/17/1994, "Yes", "DE750S", "ANGUROST",1,1994
" ",3,05/17/1994, "Yes", "DE750S", "APHRSAYA",1,1994 " ",51,05/17/1994,"Yes","DE750S","ENNEGLOR",1,1994 8. GEOGRAPHIC AND SPATIAL INFORMATION 8.1 Minimum Longitude -83 Degrees 14 Minutes 39 Seconds West (-83.24444 Decimal Degrees) 8.2 Maximum Longitude Degrees 7 Minutes 17 Seconds West (-75.12139 Decimal Degrees) -75 8.3 Minimum Latitude Decimal Degrees) 36 Degrees 33 Minutes 12 Seconds North (36.55350 8.4 Maximum Latitude 41 Degrees 57 Minutes 21 Seconds North (41.95601 Decimal Degrees) 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 DATA ACCESS 10. 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

13. PERSONNEL INFORMATION
Project Manager
Dr. John Stoddard
U.S. Environmental Protection Agency
NHEERL Western Ecology Division
200 S.W. 35th Street
Corvallis, OR 97333
541-754-4441
541-754-4716(FAX)
stoddard.john@epa.gov

Quality Assurance Officer Dave Peck U.S. Environmental Protection Agency NHEERL Western Ecology Division 200 S.W. 35th Street Corvallis, OR 97333 541-754-4426 541-754-4716 (FAX) peck.david@epa.gov

Information Management, EMAP-Surface Waters Marlys Cappaert OAO c/o U.S. Environmental Protection Agency NHEERL Western Ecology Division 200 S.W. 35th Street Corvallis, OR 97333 541-754-4467 541-754-4716 (FAX) cappaert@mail.cor.epa.gov