

US EPA ARCHIVE DOCUMENT

CATALOG DOCUMENTATION  
NATIONAL LAKE ASSESSMENT DATABASE  
NORTHEAST REGION 2007  
LAKE IDENTIFICATION STATUS

TABLE OF CONTENTS

1. DATASET IDENTIFICATION
2. INVESTIGATOR INFORMATION
3. DATASET 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 AND QUALITY ASSURANCE
10. DATA ACCESS AND DISTRIBUTION
11. REFERENCES
12. TABLE OF ACRONYMS
13. PERSONNEL INFORMATION

1. DATASET IDENTIFICATION

- 1.1 Title of Catalog document  
National Lake Assessment (NLA) Database  
Northeast Region 2007  
Lake Identification Status

- 1.2 Author of the Catalog entry  
Melissa Hughes, Raytheon MOS

- 1.3 Catalog revision date  
July 2011

- 1.4 Dataset name  
Lake Identification Status

- 1.5 Task Group  
National Lake Assessment

- 1.6 Dataset identification code  
NA

- 1.7 Version  
NA

- 1.8 Request for Acknowledgment  
EPA requests that all individuals who download National Lake Assessment data acknowledge the source of these data in any reports, papers, or presentations. If you publish these data, please include a statement similar to: "Some or all of the data described in this article were produced by the U. S. Environmental Protection Agency through its National Lake Assessment (NLA) Program".

2. INVESTIGATOR INFORMATION

- 2.1 Principal Investigators  
Hal Walker, U.S. EPA NHEERL-AED  
Bryan Milstead, U.S. EPA NHEERL-AED  
John Kiddon, U.S. EPA NHEERL-AED  
Jeff Hollister, U.S. EPA NHEERL-AED

## 2.2 Sample Collection Investigators

NA

## 2.3 Sample Processing Investigators

NA

## 3. DATASET ABSTRACT

### 3.1 Abstract of the Dataset

The Lake Status (NLA\_WBID) data set reports status and comments on the lakes in the National Lakes Assessment program and their geographic location and association with the National Hydrography Database (NHD).

### 3.2 Keywords for the Dataset

locational accuracy, National Lakes Assessment, National Hydrography Database, lake status, Lakes Ecosystem Services

## 4. OBJECTIVES AND INTRODUCTION

### 4.1 Program Objective

The U.S. Environmental Protection Agency (EPA), in partnership with state and tribal organizations, has designed the Survey of the Nation's Lakes to periodically assess the condition of the Nation's surface waters. The National Lake Assessment is a statistical assessment of the condition of our Nation's lakes, ponds, and reservoirs and is designed to: 1) Assess the condition of the Nation's Lakes; 2) Establish a baseline to compare future surveys for trends assessment and evaluate trends since the 1970's National Eutrophication Survey Study and 3) Help build State and Tribal capacity for monitoring and assessment and promote collaboration across jurisdictional boundaries. This survey will generate a statistically-valid report on the condition of our Nation's water resources and identify key stressors to this system. The goal of the Nation's Lakes project is to address two key questions about the quality of the Nation's lakes, ponds, and reservoirs: 1) What percent of the Nation's lakes are in good, fair, and poor condition for key indicators of trophic state, ecological health, and recreation? and 2) What is the relative importance of key stressors such as nutrients and pathogens?

The Survey is designed to be completed during the summer growing season before lake turnover (June through September). Field crews will collect a variety of measurements and indicators from an "index site" located at the deepest point of the lake ( $\leq 50$  meters, and near the center if sampling a reservoir), and document conditions of the littoral zone and shoreline from stations around the lake.

EPA selected sampling locations using a probability based survey design. Sample Surveys have been used to determine the status of a population or resources of interest using a representative sample of a relatively few members or sites. Using this survey design allows data from the subset of sampled lakes to be applied to the larger target population and assessments with known confidence bounds to be made.

### 4.2 Dataset Objective

The objective of the Lake Identification Status is to present lake status.

### 4.3 Dataset Background Discussion

The data set contains lake names, ids and status from the 2007 National Lakes Assessment Northeast region lakes from the states of Maine to West Virginia.

#### 4.4 Summary of Dataset Parameters

National Lakes Assessment lake names, ids and status from the 2007 Northeast region.

### 5. DATA ACQUISITION AND PROCESSING METHODS

#### 5.1 Data Acquisition

NA

##### 5.1.1 Sampling Objective

NA

##### 5.1.2 Sample Collection: Methods Summary

NA

##### 5.1.3 Beginning Sampling Dates

5/8/2007

##### 5.1.4 Ending Sampling Dates

10/18/2007

##### 5.1.5 Sampling Platform

NA

##### 5.1.6 Sampling Equipment

NA

##### 5.1.7 Manufacturer of Sampling Equipment

Not applicable

##### 5.1.8 Key Variables

Not applicable

##### 5.1.9 Sample Collection: Calibration

NA

##### 5.1.10 Sample Collection: Quality Control

NA

##### 5.1.11 Sample Collection: References

USEPA. 2007. Survey of the Nation's Lakes. Field Operations Manual.  
EPA 841-B-07-004. US Environmental Protection Agency, Washington, DC.  
([http://water.epa.gov/type/lakes/lakessurvey\\_index.cfm#CP\\_JUMP\\_474534](http://water.epa.gov/type/lakes/lakessurvey_index.cfm#CP_JUMP_474534))

##### 5.1.12 Sample Collection: Alternate Methods

NA

#### 5.2 Data Preparation and Sample Processing

Physical data did not require analytical processing.

##### 5.2.1 Sample Processing Objective

NA

##### 5.2.2 Sample Processing: Methods Summary

NA

## 5.2.3 Sample Processing: Calibration

NA

## 5.2.4 Sample Processing: Quality Control

NA

## 5.2.5 Sample Processing: References

NA

## 5.2.6 Sample Processing: Alternate Methods

Not Applicable

## 6. DATA ANALYSIS AND MANIPULATIONS

## 6.1 Name of New or Modified Value

NA

## 6.2 Data Manipulation Description

The data set contains data collected in 2007 from Northeast region lakes from the states of Maine to Connecticut. Lake latitude and longitude were used to evaluate the locational accuracy of the lakes chosen for the National Lakes Assessment program. The data were imported into ArcGIS, and converted to a shapefile. Waterbodies were selected and compared to the closest NHDPlus waterbody, WB IDs calculated and status assigned.

## 7. DATA DESCRIPTION

## 7.1 Description of Parameters

## 7.1.1 Components of the Dataset

| Attribute Name | Format              | Description                                                                                                       |
|----------------|---------------------|-------------------------------------------------------------------------------------------------------------------|
| WB_ID          | NUMBER(10)          | Unique Waterbody ID                                                                                               |
| NLA_ID         | VARCHAR2(60 BYTE)   | National Lake Assessment study unique ID for each lake                                                            |
| NLA_Name       | VARCHAR2(125 BYTE)  | National Lake Assessment lake name                                                                                |
| Rank           | NUMBER(1,0)         | NLA unique rank (1 or 2); 1 means that this is the primary NLA_ID to associate with the WB_ID                     |
| NLA_Status     | VARCHAR2(25 BYTE)   | Association of NLA_ID Rank to number of WB_IDs associated with a lake; 1=OK; >1= Flag, Duplicate NLA_ID, Not Lake |
| NLA_Comment    | VARCHAR2(2000 BYTE) | Comment on NLA_ID lake status and location in NHD database                                                        |

## 7.1.2 Precision of Reported Values

NA

## 7.1.3 Minimum Value in Dataset / 7.1.4 Maximum Value in Dataset

| PARAMETER | MIN | MAX |
|-----------|-----|-----|
| Rank      | 1   | 2   |

## 7.2 Data Record Example

## 7.2.1 Column Names for Example Records

WB\_ID, NLA\_ID, NLA\_Name, Rank, NLA\_Status, NLA\_Comment

#### 7.2.2 Example Data Records

7711476,NLA06608-0006,Morris Reservoir,1,OK,Name & Location Match  
4489294,NLA06608-0013,Mirror Lake,1,OK,Name & Location Match  
6131075,NLA06608-0022,Nelson Pond,1,OK,Name & Location Match

### 8. GEOGRAPHIC AND SPATIAL INFORMATION

#### 8.1 Minimum Longitude (Westernmost)

-80.208767 decimal degrees

#### 8.2 Maximum Longitude (Easternmost)

-66.99852 decimal degrees

#### 8.3 Minimum Latitude (Southernmost)

36.702015 decimal degrees

#### 8.4 Maximum Latitude (Northernmost)

47.416054 decimal degrees

#### 8.5 Name of area or region

The National Lake Assessment Northeast Region covers the northeastern US from Maine to West Virginia.

### 9. QUALITY CONTROL AND QUALITY ASSURANCE

#### 9.1 Measurement Quality Objectives

NA

#### 9.2 Data Quality Assurance Procedures

NA

#### 9.3 Actual Measurement Quality

NA

### 10. DATA ACCESS

#### 10.1 Data Access Procedures

Access data at: <http://www.epa.gov/aed/lakesecoservices> by clicking on the Database link.

#### 10.2 Data Access Restrictions

None

#### 10.3 Data Access Contact Persons

John Kiddon, U.S. EPA NHEERL-AED, Narragansett, RI  
401-782-3034, 401-782-3030 (FAX), kiddon.john@epa.gov

Harry Buffum, Data Manager, Raytheon, Narragansett, RI  
401-782-3183, 401-782-3030 (FAX), buffum.harry@epa.gov

#### 10.4 Dataset Format

Comma-delimited ASCII files

#### 10.5 Information Concerning Anonymous FTP

Not available

#### 10.6 Information Concerning WWW

See Section 10.1 for WWW access

10.7 EMAP CD-ROM Containing the Dataset  
Data not available on CD-ROM

11. REFERENCES

USEPA. 2007. Survey of the Nation's Lakes. Field Operations Manual.  
EPA 841-B-07-004. US Environmental Protection Agency, Washington, DC.  
([http://water.epa.gov/type/lakes/lakessurvey\\_index.cfm#CP\\_JUMP\\_474534](http://water.epa.gov/type/lakes/lakessurvey_index.cfm#CP_JUMP_474534))

USEPA. 2009. Survey of the Nation's Lakes: Integrated Quality Assurance  
Project Plan. EPA/841-B-07-003. US Environmental Protection Agency,  
Washington, DC. ([http://water.epa.gov/type/lakes/lakessurvey\\_index.cfm#CP\\_JUMP\\_474534](http://water.epa.gov/type/lakes/lakessurvey_index.cfm#CP_JUMP_474534))

USEPA. 2006. Survey of the Nation's Lakes. Lake Evaluation Guidelines.  
EPA 841-B-06-003. US Environmental Protection Agency, Washington, DC.

12. TABLE OF ACRONYMS

|       |                                   |
|-------|-----------------------------------|
| EPA   | Environmental Protection Agency   |
| NLA   | National Lakes Assessment         |
| QA/QC | Quality Assurance/Quality Control |
| WWW   | World Wide Web                    |

13. PERSONNEL INFORMATION

John Kiddon, AED Oceanographer  
U.S. Environmental Protection Agency, NHEERL-AED  
27 Tarzwell Drive, Narragansett, RI 02882-1197  
401-782-3044, 401-782-3030 (FAX), [kiddon.john@epa.gov](mailto:kiddon.john@epa.gov)

Hal Walker, AED Analyst  
U.S. Environmental Protection Agency, NHEERL-AED  
27 Tarzwell Drive, Narragansett, RI 02882-1197  
401-782-3134, 401-782-3030 (FAX), [walker.henry@epa.gov](mailto:walker.henry@epa.gov)

Bryan Milstead, AED Analyst  
U.S. Environmental Protection Agency, NHEERL-AED  
27 Tarzwell Drive, Narragansett, RI 02882-1197  
401-782-3050, 401-782-3030 (FAX), [milstead.bryan@epa.gov](mailto:milstead.bryan@epa.gov)

Jeff Hollister, AED Analyst  
U.S. Environmental Protection Agency, NHEERL-AED  
27 Tarzwell Drive, Narragansett, RI 02882-1197  
401-782-9655, 401-782-3030 (FAX), [Hollister.jeff@epa.gov](mailto:Hollister.jeff@epa.gov)

Harry Buffum, Database Manager, Raytheon  
U.S. Environmental Protection Agency, NHEERL-AED  
27 Tarzwell Drive, Narragansett, RI 02882-1197  
401-782-3183, 401-782-3030 (FAX), [buffum.harry@epa.gov](mailto:buffum.harry@epa.gov)

Melissa Hughes, Data Librarian, Raytheon  
U.S. Environmental Protection Agency, NHEERL-AED  
27 Tarzwell Drive, Narragansett, RI 02882-1197  
401-782-3184, 401-782-3030 (FAX), [hughes.melissa@epa.gov](mailto:hughes.melissa@epa.gov)