

Maryland Stream Wader Volunteer Stream Monitoring Survey

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Identification_Information:

Citation:

Citation_Information:

Originator: MARYLAND DEPARTMENT OF NATURAL RESOURCE

Originator: MARYLAND BIOLOGICAL STREAM SURVEY

Originator: MARYLAND STREAM WADERS PROGRAM

Publication_Date: 20080530

Title:

Maryland Stream Wader Volunteer Stream Monitoring Survey

Online_Linkage: <http://www.dnr.state.md.us/streams/streamWaders.asp>

Description:

Abstract:

The Maryland Stream Waders is sponsored by Maryland Department of Natural Resources' (DNR) Monitoring and Non-tidal Assessment Division. The year 2000 was the inaugural effort for this statewide volunteer stream monitoring program, with more than 200 volunteers sampling over 700 sites statewide. The program is now a statewide stream volunteer monitoring an annual activity and an integral part of DNR's professional stream sampling program, the Maryland Biological Stream Survey (MBSS). One important goal of Stream Waders is to increase the density of stream sampling sites beyond the capabilities of DNR staff. During the first round of the MBSS (1995-1997) DNR sampled an average of 7 stream sites per medium-sized watershed (about 80 square miles) and in 2000, thanks to Stream Waders, this number increased to 10. With the help of volunteers like you, we hope to increase this number to more than 25 sites per watershed! Volunteers will collect Benthic macroinvertebrates (aquatic insects, crustaceans, snails, etc.) will be sampled using the same methods and sampling window (March and April) as that used by MBSS crews. Samples will be preserved in the field and identified by DNR benthic taxonomists at the DNR field office in Annapolis.

Purpose:

The goals of the Stream Waders Program are: 1) To increase the density of sampling sites for use in stream quality assessments. 2) To educate the local community about the relationship between land use and stream quality. 3) To provide quality assured information on stream quality to state, local, and federal agencies, environmental

organizations, and others. 4)To improve stream stewardship ethics and encourage local action to improve watershed management.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 20000301

Ending_Date: Present

Currentness_Reference:

ground condition

Status:

Progress: In work

Maintenance_and_Update_Frequency: Annually

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -79.43228

East_Bounding_Coordinate: -75.25543

North_Bounding_Coordinate: 39.7222

South_Bounding_Coordinate: 38.01461

Keywords:

Theme:

Theme_Keyword_Thesaurus: NONE

Theme_Keyword: WADEABLE STREAMS

Theme_Keyword: BENTHOS

Theme_Keyword: WATER QUALITY

Theme_Keyword: VOLUNTEER MONITORING

Theme_Keyword: CITIZENS MONITORING

Place:

Place_Keyword_Thesaurus: NONE

Place_Keyword: MARYLAND

Access_Constraints: None

Use_Constraints:

Use at your own risk

Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Dan Boward

Contact_Organization: Maryland Department of Natural Resource-MBSS

Contact_Address:

Address_Type: mailing and physical address

Address:

580 Taylor Avenue, C-2

City: Annapolis

State_or_Province: Maryland

Postal_Code: 21401

Country: USA

Contact_Voice_Telephone: (410) 260-8605

Contact_Electronic_Mail_Address: dboward@dnr.state.md.us

Hours_of_Service: unknown

Contact_Instructions:

unavailable

Data_Set_Credit:

Maryland Department of Natural Resource-Maryland Biological Stream Survey
Native_Data_Set_Environment:
Microsoft Windows XP Version 5.1 (Build 2600) Service Pack 3; ESRI ArcCatalog
9.3.1.1850

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Data_Quality_Information:

Lineage:

Process_Step:

Process_Description:

Metadata imported.

Source_Used_Citation_Abbreviation:

C:\DOCUME~1\jjohnson\LOCALS~1\Temp\xmlCD.tmp

Process_Date: 20100330

Process_Time: 09023800

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Spatial_Data_Organization_Information:

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Spatial_Reference_Information:

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Entity_and_Attribute_Information:

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Distribution_Information:

Distributor:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Dan Boward

Contact_Organization: Maryland Department of Natural Resources

Contact_Address:

Address_Type: mailing and physical address

Address:

580 Taylor Avenue, C-2

City: Annapolis

State_or_Province: Maryland

Postal_Code: 21401

Country: USA

Contact_Voice_Telephone: 410-260-8605

Contact_Voice_Telephone: 410-267-5729

Contact_Electronic_Mail_Address: dboward@dnr.state.md.us

Hours_of_Service: unavailable

Contact_Instructions:

unavailable

Resource_Description: Available upon Request

Distribution_Liability:

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Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Format_Name: ASCII

Digital_Transfer_Option:

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Metadata_Reference_Information:

Metadata_Date: 20100426

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Environmental Protection Agency, Chesapeake Bay Program

Contact_Person: Jacqueline Johnson

Contact_Position: Living Resources Data Manager/Analyst

Contact_Address:

Address_Type: mailing and physical address

Address:

410 Severn Avenue, Suite 109

City: Annapolis

State_or_Province: Maryland

Postal_Code: 21403

Contact_Voice_Telephone: 410-267-5729

Contact_Electronic_Mail_Address: jjohnson@cheapeakebay.net

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Time_Convention: local time

Metadata_Access_Constraints: None

Metadata_Use_Constraints:

None

Metadata_Security_Information:

Metadata_Security_Classification: Unclassified

Metadata_Extensions:

Online_Linkage: <http://www.esri.com/metadata/esriprof80.html>

Profile_Name: ESRI Metadata Profile

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