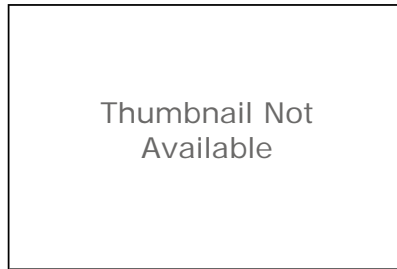


Susquehanna River Basin Commission-Watershed Assessment and Protection Program



Tags

WADEABLE STREAMS, Habitat, Watersheds, Streams, BENTHOS, WATER QUALITY, biota, environment, Biology, Ecology, Ecosystem, Environment, Indicator, Marine, Monitoring, Quality, Surface Water, Water, Benthos, Macro Invertebrates, Water Quality

Summary

The data collected are used by Commission staff to: (1) assess compliance with water quality standards; (2) characterize stream quality and seasonal variations; (3) build a database for assessment of water quality trends; (4) identify streams for reporting to USEPA under Section 305(b) of the Clean Water Act; (5) provide information to signatory states for 303(d) listing and possible Total Maximum Daily Load development; and (6) identify areas for restoration and protection. The data are published annually by the Commission, as well as entered into STORET, thus being available to states and other parties for use in updating 305(b) reports (water quality inventory), 205(j) priorities (sewage construction grants) and other water quality management plans.

Description

The Commission is committed to assisting its member jurisdictions with water quality monitoring of the streams, rivers, and other waterbodies of the Basin, both through its own projects and through assisting with various state and federal programs. Commission staff will achieve this goal by continuing work on a number of ongoing projects and assisting with other state and federal projects as funding allows. Ongoing projects currently undertaken by the Commission include: 1) Subbasin surveys; 2) Large river assessments; 3) Sediment and nutrient monitoring; 4) Interstate Streams Water Quality Network (ISWQN) monitoring; 5) State Assistance with AMD Monitoring and State Surface Water Assessment Program (SSWAP) (Pa.); 6) Early Warning System (Pa.); and 7) Groundwater monitoring from the Commission's regulatory project review approval function. Currently, the Commission monitors streams and rivers within the Basin; no lakes or wetlands are being assessed by Commission staff. The Commission has performed lake assessments in Pennsylvania in the past but has not in recent years due to funding limitations. The Commission does collect groundwater quality information from project applicants and compares the results against state and federal water quality standards. Commission staff have been conducting subbasin surveys since the 1970s. Each of the Basin's six subbasins is scheduled to be assessed on a rotating six-year cycle. A subbasin survey entails collecting benthic macroinvertebrate, chemical water quality, and physical habitat data from approximately 100 sites in each subbasin. Each station is sampled once to provide a point-in-time picture of stream characteristics throughout the entire subbasin. Biological samples are collected using a slightly modified version of USEPA's Rapid Bioassessment Protocol (RBP) III. Physical habitat information is collected using RBP parameters, and a water sample is taken to analyze various chemical parameters. The health of the streams is assessed based on this snapshot of information, a report is produced, and the information is included in the Commission's Consolidated Listing (formerly 305(b)) report. Subbasin survey information is used by Commission staff and others to: evaluate the chemical, physical, and biological health of streams in the Basin; identify major sources of pollution and lengths of stream impacted; identify high quality sections of stream that need to be protected; maintain a database that can be used to document changes in stream quality over time; review projects affecting water quality in the basin; and identify areas for more intensive study.

Credits

There are no credits for this item.

Use limitations

Use at your own risk

ArcGIS Metadata ▶**Citation ▶**

TITLE Susquehanna River Basin Commission-Watershed Assessment and Protection Program

[Hide Citation ▲](#)

Resource Details ▶

CREDITS

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Resource Constraints ▶

CONSTRAINTS

LIMITATIONS OF USE

Use at your own risk

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Metadata Details ▶

* LAST UPDATE 2010-04-26

ARCGIS METADATA PROPERTIES

METADATA FORMAT ESRI-ISO

CREATED IN ARCGIS 2010-03-30T13:19:05

LAST MODIFIED IN ARCGIS 2010-04-26T11:09:28

AUTOMATIC UPDATES

HAVE BEEN PERFORMED No

[Hide Metadata Details ▲](#)

FGDC Metadata (read-only) ▶**Identification ▶**

CITATION

CITATION INFORMATION

ORIGINATOR Susquehanna River Basin Commission

PUBLICATION DATE 2013-04-24

TITLE

Susquehanna River Basin Commission-Watershed Assessment and Protection Program

PUBLICATION INFORMATION

PUBLICATION PLACE Annapolis, MD

PUBLISHER Chesapeake Bay Program (CBP)

ONLINE LINKAGE http://data.chesapeakebay.net/?DB=CBP_NTBEINDB

ONLINE LINKAGE

http://www.chesapeakebay.net/data/downloads/watershed_wide_benthic_invertebrate_database

ONLINE LINKAGE <http://www.srbc.net/programs/WAPProgram.htm>

DESCRIPTION

ABSTRACT

The Commission is committed to assisting its member jurisdictions with water quality monitoring of the streams, rivers, and other waterbodies of the Basin, both through its own projects and through assisting with various state and federal programs. Commission staff will achieve this goal by continuing work on a number of ongoing projects and assisting with other state and federal projects as funding allows. Ongoing projects currently undertaken by the Commission include: 1) Subbasin surveys; 2) Large river assessments; 3) Sediment and nutrient monitoring; 4) Interstate Streams Water Quality Network (ISWQN) monitoring; 5) State Assistance with AMD Monitoring and State Surface Water Assessment Program (SSWAP) (Pa.); 6) Early Warning System (Pa.); and 7) Groundwater monitoring from the Commission's regulatory project review approval function.

Currently, the Commission monitors streams and rivers within the Basin; no lakes or wetlands are being assessed by Commission staff. The Commission has performed lake assessments in Pennsylvania in the past but has not in recent years due to funding limitations. The Commission does collect groundwater quality information from project applicants and compares the results against state and federal water quality standards.

Commission staff have been conducting subbasin surveys since the 1970s. Each of the Basin's six subbasins is scheduled to be assessed on a rotating six-year cycle. A subbasin survey entails collecting benthic macroinvertebrate, chemical water quality, and physical habitat data from approximately 100 sites in each subbasin. Each station is sampled once to provide a point-in-time picture of stream characteristics throughout the entire subbasin. Biological samples are collected using a slightly modified version of USEPA's Rapid Bioassessment Protocol (RBP) III. Physical habitat information is collected using RBP parameters, and a water sample is taken to analyze various chemical parameters. The health of the streams is assessed based on this snapshot of information, a report is produced, and the information is included in the Commission's Consolidated Listing (formerly 305(b)) report. Subbasin survey information is used by Commission staff and others to: evaluate the chemical, physical, and biological health of streams in the Basin; identify major sources of pollution and lengths of stream impacted; identify high quality sections of stream that need to be protected; maintain a database that can be used to document changes in stream quality over time; review projects affecting water quality in the basin; and identify areas for more intensive study.

PURPOSE

The data collected are used by Commission staff to: (1) assess compliance with water quality standards; (2) characterize stream quality and seasonal variations; (3) build a database for assessment of water quality trends; (4) identify streams for reporting to USEPA under Section 305(b) of the Clean Water Act; (5) provide information to signatory states for 303(d) listing and possible Total Maximum Daily Load development; and (6) identify areas for restoration and protection. The data are published annually by the Commission, as well as entered into STORET, thus being available to states and other parties for use in updating 305(b) reports (water quality inventory), 205(j) priorities (sewage construction grants) and other water quality management plans.

TIME PERIOD OF CONTENT

TIME PERIOD INFORMATION

SINGLE DATE/TIME

CALENDAR DATE 19860414-Present

CURRENTNESS REFERENCE

Ground condition

STATUS

PROGRESS In work

MAINTENANCE AND UPDATE FREQUENCY Annually

SPATIAL DOMAIN

BOUNDING COORDINATES

WEST BOUNDING COORDINATE -78.8472
EAST BOUNDING COORDINATE -74.8155
NORTH BOUNDING COORDINATE 42.8508
SOUTH BOUNDING COORDINATE 39.5711

KEYWORDS

THEME

THEME KEYWORD THESAURUS None
THEME KEYWORD WADEABLE STREAMS
THEME KEYWORD Habitat
THEME KEYWORD Watersheds
THEME KEYWORD Streams
THEME KEYWORD BENTHOS
THEME KEYWORD WATER QUALITY

THEME

THEME KEYWORD THESAURUS ISO 19115 Topic Category
THEME KEYWORD biota
THEME KEYWORD environment

THEME

THEME KEYWORD THESAURUS EPA GIS Keyword Thesaurus
THEME KEYWORD Biology
THEME KEYWORD Ecology
THEME KEYWORD Ecosystem
THEME KEYWORD Environment
THEME KEYWORD Indicator
THEME KEYWORD Marine
THEME KEYWORD Monitoring
THEME KEYWORD Quality
THEME KEYWORD Surface Water
THEME KEYWORD Water

THEME

THEME KEYWORD THESAURUS User
THEME KEYWORD Benthos
THEME KEYWORD Macro Invertebrates
THEME KEYWORD Water Quality

PLACE

PLACE KEYWORD THESAURUS None
PLACE KEYWORD New York
PLACE KEYWORD Pennsylvania

ACCESS CONSTRAINTS

None

USE CONSTRAINTS

Use at your own risk

POINT OF CONTACT

CONTACT INFORMATION

CONTACT PERSON PRIMARY

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CONTACT INSTRUCTIONS

Not Available

SECURITY INFORMATION

SECURITY CLASSIFICATION SYSTEM FIPS Pub 199

SECURITY CLASSIFICATION No Confidentiality

SECURITY HANDLING DESCRIPTION Standard Technical Controls

Hide Identification ▲**Data Quality** ►

LOGICAL CONSISTENCY REPORT

Not applicable-Data voluntarily reported

COMPLETENESS REPORT

Unknown

POSITIONAL ACCURACY

HORIZONTAL POSITIONAL ACCURACY

HORIZONTAL POSITIONAL ACCURACY REPORT

Data were collected using methods that have unknown accuracy (EPA National Geospatial Data Policy [NGDP] Accuracy Tier 10). For more information, please see EPA's NGDP at <http://epa.gov/geospatial/policies.html>

LINEAGE

PROCESS STEP

PROCESS DESCRIPTION

Metadata imported.

PROCESS DATE 2010-03-30

PROCESS STEP

PROCESS DESCRIPTION

Data was loaded into the CBPO Non-Tidal Benthic Data base.

PROCESS DATE 2010-03-30

PROCESS STEP

PROCESS DESCRIPTION

2008-2010 Data for Chesapeake Bay Region was extracted from provided and loaded into the CBPO Non-Tidal Benthic Data base.

PROCESS DATE 2011-12-31

Hide Data Quality ▲

Spatial Reference ►

HORIZONTAL COORDINATE SYSTEM DEFINITION

GEOGRAPHIC

LATITUDE RESOLUTION 0.000001
 LONGITUDE RESOLUTION 0.000001
 GEOGRAPHIC COORDINATE UNITS Decimal degrees

GEODETIC MODEL

HORIZONTAL DATUM NAME North American Datum of 1983
 ELLIPSOID NAME Geodetic Reference System 1980
 SEMI-MAJOR AXIS 6378137.000000
 DENOMINATOR OF FLATTENING RATIO 298.257222

Hide Spatial Reference ▲

Distribution Information ►

DISTRIBUTOR

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unavailavle

RESOURCE DESCRIPTION Downloadable Data

DISTRIBUTION LIABILITY

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It is strongly recommended that careful attention be paid to the contents of the data documentation file associated with these data. The Chesapeake Bay Program shall not be held liable for improper or incorrect use of the data described and/or contained herein.

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Metadata Reference ►

METADATA DATE 2013-04-24

METADATA FUTURE REVIEW DATE 2017-04-24

METADATA CONTACT

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METADATA STANDARD NAME NBII Content Standard for National Biological Information Infrastructure Metadata

METADATA STANDARD VERSION FGDC-STD-001-1998

METADATA SECURITY INFORMATION

METADATA SECURITY CLASSIFICATION SYSTEM None

METADATA SECURITY CLASSIFICATION Unclassified

METADATA SECURITY HANDLING DESCRIPTION

None

Hide Metadata Reference ▲