

Metadata Creation Tool Content Template For Data Stewards

Instructions for use: Please complete all sections in each table below under the ‘FIELD CONTENT’ column. The cells associated with each field in the table will automatically expand to accommodate all of the text that is either typed into the ‘FIELD CONTENT’ column or pasted in from other documents. An * next to a field name indicates that it is mandatory for information to be entered into the adjacent ‘FIELD CONTENT’ cell. *Italic text* in the ‘FIELD’ column denotes that additional information can be added if available. Do not alter any of the field labels in any of the tables. Please use either the Metadata Creation Tool User Guide or the Metadata Content Guidance Document to assist you with completing each cell. If you need further assistance, please call XXXX or e-mail him as YYYY@ZZZ.ZZ.ZZ.

I. IDENTIFICATION TAB

A. CITATION PAGE

FIELD	FIELD CONTENT
* CATEGORY	Environmental Air Hazards
* PUBLICATION DATE	20090126
*TITLE	Maryland PM _{2.5} Monitor Readings
URL	http://www.epa.gov/ttn/airs/airsaqs/
* NATIVE DATASET ENVIRONMENT	Original text files can be downloaded from listed URL address. A subset of the data set can be access from the Maryland Tracking Network (MTN) or downloaded from the MTN.

B. DESCRIPTION PAGE

FIELD	FIELD CONTENT
* ABSTRACT	Between 2000 and 2006 there were approximately 20 PM _{2.5} monitors in Maryland. These PM _{2.5} monitors were maintained by the Maryland Department of the Environment (MDE). Most of these PM _{2.5} monitors were located along the I-95 corridor, which begins in Washington, D.C., goes in a north-east direction through Baltimore, continues in Harford County, and into Pennsylvania. According to the Environmental Protection Agency (EPA) web site for the Technology Transfer Network (TTN) Air Quality System (AQS) the PM _{2.5} monitor data are owned by MDE. PM _{2.5} readings are made once every 1-3 days, from January 1 through December 31 of each year, http://www.epa.gov/ttn/airs/airsaqs/detaildata/downloadaqsdatsdata.htm . PM _{2.5} unit of measurement is µg/m ² . Annual monitor summaries are also available for the 24 hour average, http://www.epa.gov/air/data/ .
* PURPOSE	MDE uses PM _{2.5} monitor readings to carry out compliance requirements established by EPA. EPA established PM _{2.5} compliance criteria; now they are 35 µg/m ² for the 24-hour mean and 15 µg/m ² for the annual mean. These threshold

	values represent EPA's attempt to protect human health. EPA uses monetary incentives to attain area compliance with established ozone standards. Health data are not regularly used by MDE in its day-to-day ozone enforcement activities.
SUPPLEMENTAL INFORMATION	EPA activities have included an interest in knowing about the impact of PM _{2.5} concentration on human health, especially respiratory conditions such as asthma and cardiovascular diseases such as myocardial infarctions. By using PM _{2.5} data, both daily readings and annual summaries, and data on related chronic respiratory conditions on the Maryland Tracking Network (MTN) and the National Tracking Network (NTN), it will be possible for users of these tracking web sites to carry out hypothesis-generating analyses that will contribute to the use of health data in making future decisions about ozone standards.
* PROGRESS	Complete
* UPDATE FREQ.	Quarterly updates are submitted by MDE to EPA. Complete PM _{2.5} monitor data are available on an annual basis.

C. TIME & DATE PAGE

FIELD	FIELD CONTENT
* CURRENTNESS	As of December 31, 2006.
* DATE TYPE	Basic datum consists of daily PM _{2.5} monitor readings in µg/m ² .
* SINGLE DATE	2006
* MULTIPLE DATES	
	Date 1
	Date 2
	Date 3
* RANGE OF DATES	FROM: 20000101 TO: 20061231

D. GEOGRAPHIC AREA PAGE

FIELD	FIELD CONTENT
* WEST COORDINATE	-79.505026
* EAST COORDINATE	-75.013536
* NORTH COORDINATE	39.747020
* SOUTH COORDINATE	37.891235

E. KEYWORDS PAGE

FIELD	FIELD CONTENT
* THEME	ISO 19115
* THEME KEYWORD	PM _{2.5} , monitor, Maryland
<i>THEME 2</i>	ISO 19115
<i>THEME 2 KEYWORD</i>	007 Environment,
<i>THEME 3</i>	ISO 19115
<i>THEME 3 KEYWORD</i>	004 Climatology, Meteorology, Atmosphere

* PLACES	FIPS 5-2 (State)
* PLACES KEYWORD	Maryland (24)
<i>PLACES 2</i>	FIPS 5-3 (Counties/Baltimore City)
<i>PLACES 2 KEYWORD</i>	Allegany (001), Anne Arundel (003), Baltimore (005), Calvert (009), Caroline (011), Carroll (013), Cecil (015), Charles (017), Dorchester (019), Frederick (021), Garrett (023), Harford (025), Howard (027), Kent (029), Montgomery (031), Prince George's (033), Queen Anne's (035), St Mary's (037), Somerset (039), Talbot (041), Washington (043), Wicomico (045), Worcester (047), Baltimore City (510)
<i>PLACES 3</i>	
<i>PLACES 3 KEYWORD</i>	City/Zip Code

F. SECURITY PAGE

FIELD	FIELD CONTENT
* SECURITY CLASSIFICATION SYSTEM	None
* CLASSIFICATION	Unclassified
* SECURITY HANDLING DESCRIPTION	None
* ACCESS CONSTRAINTS	None
* USE CONSTRAINTS	None

II. DATA QUALITY TAB

FIELD	FIELD CONTENT
* PROCESS DATE	20071231
* PROCESS DESCRIPTION	MDE uploads Maryland PM _{2.5} monitor data to the AQS each quarter. Data have to go through quality checks before they are certified as complete. Most recent annual Maryland ozone monitor data are for calendar year of 2007. The most recently available data set from the MTN is for 2006.
<i>PROCESS DATE</i>	
<i>PROCESS DESCRIPTION</i>	
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<i>PROCESS DESCRIPTION</i>	
* LOGISTICAL CONSISTENCY REPORT	Data checks are carried out by EPA. Details of data quality control measures are briefly summarized, without details. Monitor location is given in latitude and longitude coordinates. Geographic polygons for monitor location are also provided; these include state, county, city/place and residential zip codes. For the data set available from the MTN, the location variable is Maryland counties.
* COMPLETENESS REPORT	Monitor information includes inclusive dates when PM _{2.5} readings were made, how ozone was measured, missing readings because of equipment malfunction or due to data processing errors and annual monitor summaries.

III. ENTITY AND ATTRIBUTES TAB

FIELD	FIELD CONTENT
* OVERVIEW	Maryland PM _{2.5} monitor readings are provided for 2000 through 2006. These readings will be aligned in time (year) and location (county) with chronic diseases or other health outcome measures that will be available from the MTN. PM _{2.5} is measured in µg/m ² by different monitors located within Maryland. Daily (1-3 days) monitor readings are available, as well as annual monitor summaries. Complete data dictionary is available from the AQS web page. Data extracts can be downloaded as preformatted data tables for individual years. Data selection can be accomplished using data queries. Both can be downloaded. Monitor location is also provided in latitude and longitude, as well as other geopolitical polygons such as state, county, city/place, and zip codes. Descriptive information about the location of the monitor is also provided. Census measures include persons who live close to each ozone monitor.
* DETAILED CITATION	To make the PM _{2.5} monitor readings compatible for use with other chronic disease or health outcome data that will be available from the MTN only a subset of variables have been selected; these include mean values for counties per year. Complete dictionary is available from AQS web page listed above.

IV. DISTRIBUTION TAB

FIELD	FIELD CONTENT
RESOURCE DESCRIPTION	Maryland PM _{2.5} monitor readings are available as hourly readings or annual averages, from the TTN AQS web age, at the URL given above. File size parameters vary depending on selected data. File size information is available from the download web page.
LIABILITY	User assumes responsibility for the appropriate analysis and interpretation of Maryland PM _{2.5} monitor data. Without knowing about how PM _{2.5} was measured and limitations on how PM _{2.5} readings can be analyzed, it is possible that results may not be meaningful. This AQS web site provides additional content about what can be the misuse of PM _{2.5} monitor data. The MTN does

	provide guidance in the correct interpretation of results obtained from structured or semi-structured data queries in the form of risk communication messages. Additional, but limited, assistance will be available from the Maryland EPHT epidemiologist. Contact information is available from the MTN web site.
CUSTOM ORDER PROCESS	Available Maryland PM _{2.5} monitor data can be obtained from the TTN AQS web site listed above. No other monitor PM _{2.5} data are available at this time. Future plans will be to make EPA modeled PM _{2.5} data accessible for download from the MTN web site. The modeled PM _{2.5} data is now a work in progress. An availability notice will be added to the MTN when the modeled ozone data will be available.

V. METADATA TAB

FIELD	FIELD CONTENT
* DATE CREATED	20070510
* STANDARD NAME	EPHTN TEMPLATE VERSION 1.1
* ACCESS CONSTRAINTS	None
* USE CONSTRAINTS	None

VI. CONTACTS TAB

A. MATRIX PAGE

FIELD	FIELD CONTENT
* CONTACT 1 NAME	EPA
* CONTACT 1 TYPE	EPA contact information is available from TTN AQS contact web page, http://www.epa.gov/ttn/airs/airsaqs/usersupportandagencycontacts.htm
CONTACT 2 NAME	MDE
CONTACT 2 TYPE	MDE contact information is available from the TTN AQS web page, http://www.epa.gov/ttn/airs/airsaqs/usersupportandagencycontacts.htm
CONTACT 3 NAME	MTN
CONTACT 3 TYPE	http://dhmh.ephtracking.net/query.aspx (also see below)
CONTACT 4 NAME	
CONTACT 4 TYPE	

B. ORIGINATORS PAGE

FIELD	FIELD CONTENT
* PERSON	EPA
* ORGANIZATION	The TTN AQS web page provides name and contact information for the originator of the MDE ozone monitor data, http://www.epa.gov/ttn/airs/airsaqs/basic_info.htm
* TITLE	
USERID	
HOURS	

INSTRUCTIONS	
* PHONE NO. 1	
PHONE NO. 2	
* FAX	
* E-MAIL	
TDD/TTY	
* STREET ADDRESS	
* CITY	
STATE	
COUNTRY	U.S.A.
* ZIP	

C. DISTRIBUTORS PAGE

FIELD	FIELD CONTENT
* PERSON	EPA
* ORGANIZATION	The TTN AQS web page provides name and contact information for obtaining MDE ozone monitor data, http://www.epa.gov/ttn/airs/airsaqs/basic_info.htm
* TITLE	
USERID	
HOURS	
INSTRUCTIONS	
* PHONE NO. 1	
PHONE NO. 2	
* FAX	
* E-MAIL	
TDD/TTY	
* STREET ADDRESS	
* CITY	
STATE	
COUNTRY	U.S.A.
* ZIP	

D. METADATA CONTACTS PAGE

FIELD	FIELD CONTENT
* PERSON	John T. Braggio, PhD, MPH
* ORGANIZATION	Maryland Environmental Public Tracking Program
* TITLE	Coordinator/Epidemiologist
USERID	
HOURS	8:00 AM – 4:30 PM
INSTRUCTIONS	
* PHONE NO. 1	410-767-6661
PHONE NO. 2	410-767-6234
* FAX	410-767-333-5995

* E-MAIL	JBraggio@dhhm.state.md.us
TDD/TTY	None
* STREET ADDRESS	201 W. Preston St, Third floor
* CITY	Baltimore
STATE	MD
COUNTRY	U.S.A.
* ZIP	21201