National Environmental Public Health Tracking Network

Data Re-release Plan

Version 2.5

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Environmental Health Tracking Branch
Division of Environmental Hazards and Health Effects
National Center for Environmental Health
Centers for Disease Control and Prevention
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Introduction

This document describes the plan for re-release of data submitted to the National Environmental Public Health Tracking Program (referred to as the Tracking Program). These data are scheduled for re-release through the National Secure and Public Portals on the National Environmental Public Health Network (referred to as the Tracking Network). State and local Tracking Grantees will submit the data. Since 2006, these grantees have received funding through a cooperative agreement to implement the Tracking Network and to provide core data and measures for the National Portals. Data may also be submitted by nongrantee data stewards with whom, in some cases, a data sharing agreement has been established.

The purpose of this plan is to describe the principles and procedures for the re-release of data on the National Secure and Public Portals and to ensure that data are re-released in accordance with applicable federal and state laws. The plan is consistent with the CDC/ATSDR Policy on Releasing and Sharing Data and is based on accepted standard operating procedures and data release practices for the agency.

The CDC/ATSDR Policy on Releasing and Sharing Data was developed to ensure that (1) CDC routinely provides data to its partners for appropriate public health purposes, and (2) all data are released without restrictions or are shared with particular parties with restrictions. The data are shared as soon as it is feasible to do so, taking into consideration privacy concerns, federal and state confidentiality concerns, proprietary interests, national security interests, or law enforcement activities. Data provided to CDC by state health departments are covered by this policy. The policy recognizes the importance of evaluating data quality and preparing appropriate documentation related to the data (e.g. method of collection, completeness and accuracy, potential limitations on use), including instructions for non-CDC users on the appropriate use of the data, before re-releasing or sharing the data.

This document will be reviewed annually to determine the need for any revisions. If any proposed revisions create a conflict with existing agreements between the Tracking Program and Tracking Grantees or data stewards, Tracking Grantees and data stewards will be notified of the proposed revisions and provided an opportunity to comment before those revisions are finalized.

Background

In January 2001, the Pew Environmental Health Commission called for the creation of a coordinated public health system to prevent disease in the United States. Specifically, the commission saw the need for a system to track and combat environmental health threats. In Fiscal Year 2002, in response to the commission, the U.S. Congress appropriated funding to the CDC to initiate development of the Tracking Program.
The purpose of the Tracking Program is to establish and maintain a nationwide tracking network to obtain integrated health and environmental data and use it to provide information in support of actions that improve the health of communities. The Tracking Network is a Web-based, secure network of standardized electronic health and environmental data. The major functions of the Tracking Network are to

- enable compilation of a core set of nationally consistent health and environmental data and measures;
- discover, describe, exchange, analyze, and manage data;
- make tools available for managing and analyzing the data; and
- provide environmental public health information to the public.

Key benefits of the Tracking Network include the capability to

- provide timely and consistent information for stakeholders;
- provide access to and ability to integrate local, state, and national databases of environmental hazards, environmental exposures, and health effects;
- enable broad analysis across geographic and political boundaries;
- promote systems that are interoperable across jurisdictions through compliance with standards;
- increase environmental public health capacity at the state and local levels;
- provide the ability to enhance and improve data; and
- provide a secure, reliable, and expandable ability to link environmental and health data.

Data and resources available through the Tracking Network will advance efforts to

- identify populations at risk;
- detect trends in the occurrence of environmental hazards, exposures, and diseases;
- generate hypotheses about the relationship between environmental hazards and disease;
- guide intervention and prevention strategies;
- improve the public health basis for policymaking;
- enable the public’s right to know about health and the environment; and
- track progress towards achieving a healthier nation and environment.

**Nationally Consistent Data and Measures**

The Tracking Network includes a core set of nationally consistent data and measures (NCDM) concerning health, exposures, and environmental hazards. Through collaboration with state and local partners and data stewards, these NCDMs have been developed or adopted for the Tracking Network. Health data in the Tracking Network focus on noninfectious health conditions, such as poisoning by carbon monoxide or lead, asthma and other respiratory disease, cancers, and birth defects. Exposure or biomonitoring data include observations of the presence of an environmental agent or its
metabolite in persons, such as lead or cotinine in blood and arsenic in urine. Hazard data may include chemical agents (e.g., arsenic), physical agents (e.g., dust particles), and biologic toxins (e.g., harmful algal blooms) that may be found in air, water, soil, food, or other environmental media. Hazard data may be obtained by direct measurement or estimated using mathematical models.

To determine data needs for the Tracking Network, a group of experts, including data stewards, evaluated the data available at the state and national levels to determine their utility for environmental public health tracking (CDC 2008b). Critical elements from these data were used to develop recommendations for nationally consistent data for the Tracking Network.

Through aggregation of records and restriction in the number of available variables, these nationally consistent data balance as much as possible utility and protection of confidentiality. Many of the recommended nationally consistent data are intended as restricted-access datasets (RADS). They are minimally aggregated and, because of small numbers, may contain potentially identifiable information. Such data are not, however, at the individual level and do not contain personal identifiers such as name, address, date of birth, or social security number.

The nationally consistent data within the Tracking Network are

- aggregated into standardized stratification schema (e.g., counts of events by event code, by location, by time-period, by demographic strata), summarized (e.g., average for location by time-period), and used to calculate derived measures (e.g., age-adjusted rates for location by time-period);
- re-released to the public through the Public Portal as nationally consistent public use data and measures (details are provided in related sections of this document);
- re-released to registered, authorized users through the Secure Portal as RADS (details are provided in related sections of this document);
- linked to other health outcomes data, exposure and biomonitoring data, environmental hazards and environmental monitoring data, and other population and census data by association through spatial proximity, temporal proximity, or membership in a population subgroup for the purpose of statistical analysis; and
- analyzed for the purposes of identifying populations at risk, detecting and tracking temporal or spatial trends, generating hypotheses about the relationship between environmental hazards, exposures, and disease, and guiding intervention and prevention strategies and policy development.

**Data Transport, Management, and Storage**

**Data Transport**

Data will be transported from the data steward or Tracking Grantee to the CDC Tracking Program in accordance with acceptable practices ensuring the protection, confidentiality,
and integrity of the data contents. The Tracking Program supports two transport mechanisms for receiving data:

- Public Health Information Network Messaging System (PHIN MS)
- Secure Data Network Secure File Upload (SDN SFU)

PHINMS is the CDC’s Public Health Information Network (PHIN)-compliant solution for secure and reliable communications and is the preferred method of communications. PHINMS currently requires installation of client software and a SDN certificate (CDC 2007). Detailed information on installing PHINMS can be found in the PHINMS Quick Guide (CDC 2008d). SDN SFU provides a second option for the transporting of data to the Tracking Network. It is a Web application that does not require any software installation but does require a SDN certificate. Detailed instructions and technical assistance are available (CDC 2008a). If a data steward is unable to transport data via PHINMS or SDN SFU, other arrangements will be made for secure data transportation.

**Data Format**

The Tracking Program preferred format for data received is XML validated against XML schema developed for the particular dataset and made available to the data steward or Tracking Grantee (CDC 2008c).

**Data Repository**

Data provided to the Tracking Program by data stewards or by Tracking Grantees will be archived, stored, protected, or disposed of in accordance with relevant federal records requirements and applicable information systems management requirements. However, it is the intent of the Tracking Program to store and make data continuously available as described in this plan. Data will be stored in the National Data Repository on CDC servers for secure and sensitive data, with access limited to authorized CDC employees and contractors. Data sharing agreements with data stewards or cooperative agreements with Tracking Grantees may require renewal as specified by the terms of each agreement. Should an agreement be terminated, the Tracking Program will delete all copies of the original data, derived data, and standardized or aggregated data within the Tracking Network, pursuant to the applicable federal records requirements.

**Release of Data via the Public Portal**

The Public Portal serves as the Tracking Network’s interface to the public and will enable stakeholders to access nationally consistent public use data and measures as well as other services and tools offered by the Tracking Network. A nationally consistent measure is a specific combination, calculation, or derivation of health or environmental data that yields a composite number, such as a count or rate for a specific geographic unit and time period of analysis. For purposes of the Tracking Program, public use data sets (PUDS) for health and biomonitoring data are defined as data sets comprised of aggregated data with all individually identifiable data or information removed, and with the remaining
fields modified or suppressed to reduce disclosure risk as much as reasonably possible and to prevent the creation of any table that violates the numerator or denominator cell size rules. PUDS for environmental data are defined as data sets comprised of aggregated or summarized data that have been processed to allow for interpretation of the original data and presentation of nationally consistent environmental measures.

The Public Portal will provide users with the capability to

- Access PUDS and measures compiled as nationally consistent data and measures.
  - View prepared reports.
  - View preconfigured tables, charts, and maps containing count data, measures, and smoothed measures.
  - Execute flexible, user-defined queries where health and biomonitoring data are restricted to smoothed or age-adjusted measures.
- Search and view metadata.
- Browse and view other relevant Tracking Network data sources, which may include U.S. EPA data, U.S. Census Bureau data, and other CDC data.
- Browse and traverse relevant categorized links to other information sources, including
  - State and local Tracking Programs.
  - State environmental and health agencies.
  - U.S. Environmental Protection Agency.
  - Other CDC Websites.
- Access public health messages as well as descriptive content designed to assist the public in interpreting the NCDMs and other data and measures.

Confidentiality Protection and Statistical Stability

PUDS and nationally consistent measures for health and biomonitoring data require the protection of confidentiality and notice of statistical stability. PUDS and nationally consistent measures for environmental data do not have the same requirements regarding confidentiality, except with respect to protecting sensitive data related to national security and explaining data limitations and uses.

PUDS and nationally consistent measures for health and biomonitoring data will not contain information that is identifiable or potentially identifiable according to currently accepted procedures for reducing disclosure risk. To address issues of confidentiality protection and statistical stability, a combination of disclosure control procedures including additional aggregation, suppression, and smoothing will be employed to generate and display PUDS or nationally consistent measures. These procedures will be used to prevent disclosure of non-zero counts less than 6 for geographic units with populations under 100,000 and corresponding crude rates. Rates and other measures will be flagged as unstable when aggregation or smoothing or both fail to produce estimates with a relative standard error (RSE) less than 30%.
Creating PUDS and Measures: Aggregation and Variable Restriction

RADS will be used to generate PUDS or measures for re-release through the Public Portal. This includes the aggregation of data into standardized stratification schema and the calculation of summary or derived measures such as age-adjusted rates for public release. In generating PUDS or measures, several procedures will be used to block breaches of confidentiality and prevent disclosure of confidential information. These procedures include predefined aggregation and variable restriction. Aggregation may be performed spatially or temporally. To reduce the number of small counts, the number of demographic variables provided will depend on the level of aggregation. Data highly aggregated spatially or temporally will contain more demographic variables than data minimally aggregated. The generation of PUDS and measures may also involve the collapsing of variables, (e.g., the collapsing of 5-year age groups into one group for children and one group for adults). The variable or variables chosen for aggregation, restriction, or collapsing will depend on the intended purpose of the PUDS or measure.

Display of PUDS and Measures: Primary and Complementary Suppression

Even after aggregation and variable restriction, when displayed as tables, charts, or maps, PUDS and measures may still contain small case counts, thereby requiring additional steps to protect confidentiality and ensure statistical stability. The primary suppression rule is to censor case counts and corresponding crude rates for geographic units with total populations under 100,000 and positive case counts fewer than 6. Corresponding crude rates will be censored to prevent back-calculation of counts.

After the appropriate suppression rules are applied, all PUDS or measures available as prepared reports or through preconfigured data products will be evaluated for necessary complementary suppression to prevent back-calculation of initially censored counts. When complementary suppression is necessary, the following hierarchy will be followed:

1. First, attempt to find a candidate cell representing a small (population < 100,000) geographic unit;
2. Next, seek a candidate cell among a large geographic unit; and
3. Lastly, suppress the relevant marginal total.

The goal underlying this approach is to preserve marginal totals (e.g., statewide totals) whenever possible— they are of the greatest general interest and likely to be available via other Web sites or publications.

Although data products may be individually secured through primary and complementary suppression, it may be possible to reconstruct censored data by combining information from multiple data products. In a flexible query system allowing multiple dynamic queries, implementing effective suppression rules for sets of dependent data products is often difficult. To ensure protection of suppressed counts, sets of preconfigured, dependent data products will be evaluated collectively to determine whether additional confidentiality protection procedures are needed. When sets of dependent data products
are too large or difficult to ensure protection of suppressed counts, health and biomonitoring data will be presented as smoothed crude measures, smoothed age-specific measures, or age-adjusted measures.

Once the suppression process has been completed, some rates may remain that are statistically unstable. Instability can arise from small numerators (case counts) or small denominators (populations or subpopulations). Any rate or measure with a RSE ≥ 30%, will be flagged as unstable, but not suppressed.

**Smoothing**

When appropriate, smoothing will also be used to protect confidentiality, increase statistical stability, and provide information in areas where counts or unsmoothed measures may otherwise be suppressed or flagged. Smoothing combines data from multiple geographic units and can yield greater stability in local rate estimates. Smoothing and flagging unstable measures can be combined to address situations in which even the smoothed estimates are not considered sufficiently stable. Appropriate public health messages and interpretation guidance will accompany any presentation of smoothed measures. Such messages will clarify that smoothed measures are intended to present general trends rather than accurate local measures.

For re-release of PUDS and nationally consistent measures to the public, smoothing approaches will

- be relatively easy to implement using available computing software;
- execute quickly so that they can be employed in conjunction with dynamic queries; and
- use calculations which although algebraically straightforward, are difficult to reverse.

As an example, a simple empirical Bayes (EB) smoothing procedure (Waller and Gotway 2004) may be suitable. Such an approach combines geographic data in a manner that is sensitive to rate variations across geographic units by giving greater weight to immediately local estimates as the relative variability in the surrounding rates increases.

**Disclosure Statement**

The Public Portal will prominently display a public release disclosure statement informing users of their responsibility to maintain confidentiality and inform CDC immediately if, during use of data obtained from the Public Portal, the identity of an individual person is inadvertently disclosed. In addition, it will state that users will not imply or state that interpretations based on the data are those of the original data source or CDC but will acknowledge both in all reports based on these data.
Release of Data via the Secure Portal

A fundamental premise of the Tracking Network is that environmental public health practitioners and researchers will benefit from a secure, reliable environment in which they can access and exchange data, share professional information, and access common resources. The Secure Portal is the primary mechanism for delivering these capabilities—a function that will require high security credibility.

The Secure Portal can provide registered users, (i.e., persons who have completed the required security registration process), access to

- Restricted-access data sets (based on authorization and designation of a person’s access rights for specific datasets).
- Data discovery and description services.
- Online analysis, visualization, and reporting tools.
- A repository of analytical tools and methods.
- Collaboration and knowledge management functions (document sharing, discussion, contact management).

Only registered users and systems will have access to restricted data and services on the Secure Portal. Access control is implemented through two primary processes, authentication and authorization. Authentication ensures that the user has the appropriate credentials (i.e., a digital certificate and pass phrase) and has appropriate access to the service. Authorization verifies a user’s rights to access particular data or services on the Secure Portal. Users are authenticated and authorized each time they log into an application through the CDC Secure Data Network (SDN).

Becoming a Registered User and Obtaining Authorization to Access Restricted Data

To become a registered user of the Secure Portal, requestors must submit a completed application (Appendix A). As detailed in CDC’s Technical Network Implementation Plan, (http://www.cdc.gov/nceh/tracking/pdfs/TNIP_V1.pdf), registered users are expected to include

- CDC staff and contractors;
- Tracking grantees;
- other data partners;
- other public health and environmental practitioners; and
- researchers.

The Tracking Program will review applications to ensure the stated objectives for accessing the secure portal are consistent with the types of data, tools, and services available on this site and with the purpose for which these Network assets were developed or obtained (CDC 2006; CDC 2007). Approved requestors then complete the enrollment process for the SDN. This involves applying for an SDN account, being
assigned to the Tracking Program activities, and installing a digital certificate on the successful applicant’s browser.

Registration on the Secure Portal does not automatically allow registered users authorization to access RADs (i.e., aggregated data that may contain potentially individually identifiable information because of small numbers). To access RADS, Secure Portal users must submit a data request form (Appendix B), which includes a description of how the requested data will be used. For data provided to the Tracking Network by state or local Tracking Grantees, the Tracking Program will forward the data requests to the appropriate state or local Tracking Grantees. State or local Tracking Grantees may approve, reject, or request additional information from the applicant as part of their review process. State or local Tracking Grantees will provide notification of final approval or rejection of the request to the Tracking Program. If a data request is rejected, the state or local Tracking Grantee will provide a reason for the rejection.

For data provided by national sources or sources other than state or local Tracking Grantees, requests for RADS will be handled as specified by the data sharing agreement between the CDC Tracking Program and the data steward.

Approved users of RADS will sign a data use agreement with CDC (Appendix C) and will be subject to the terms within the relevant agreements between the CDC Tracking Program and data stewards or state and local Tracking Grantees. Users will be required to renew their access rights annually, unless otherwise specified during the data request process.

**Metadata and Instructions to Users**

Data released through the Public and Secure Portals will be accompanied by the necessary documentation in the form of metadata about collection procedures, completeness, and limitations. Metadata describes the content, quality, and context of the data and provides links to additional information such as quality assurance documents and data dictionaries. Each dataset will have a corresponding metadata record created by or with the assistance of the data provider. Metadata will be maintained in a central repository and revised as data are updated.

The creation and maintenance of metadata is a vital component of the Tracking Network. They will be used to generate instructions on the proper use and interpretation of data available on the Tracking Network. Metadata also support additional Network functionality by providing users the ability to

- locate and access data based on key fields within the metadata such as title, purpose, abstract, keywords, geographic boundaries, year, and content, and
- discover data and evaluate its quality, limitations, restrictions, and appropriateness for the intended use.
**Public Health Messages**

Data released on the Public Portal will be accompanied by several types of messages. The portal will include contextual information that explains how the content area and its data and measures are related to environmental public health tracking. This includes a discussion of current understanding about the association between health and the environment. Information about data limitations and appropriate uses of the data and measures will be provided as will guidance on interpretation. Applicable national level measures and relevant national objectives will be provided, such as those in Healthy People. Where appropriate, the Public Portal will also contain public health messages related to prevention and environmental health stewardship. Public health messages will be developed in collaboration with subject matter experts from multiple state, federal, and nongovernmental partners. Public health messages developed for the Public Portal will be consistent with CDC’s existing public health messages.

**Asset Protection**

CDC understands that many of the recommended, nationally consistent data are intended as restricted-access datasets in that they are minimally aggregated and may contain potentially identifiable information. CDC also understands that it may receive other information from data sources that may be deemed proprietary and/or commercial, or data that may be subject to protections from disclosure provided by specific privileges.

Consistent with applicable federal laws, regulations, and policies, CDC intends to use its best efforts and the procedures set out in this Data Re-Release Plan to

- protect the privacy and confidentiality of any potentially identifiable information,
- protect any proprietary or commercial information provided to it by a Tracking Grantee, national source or data source other than state or local Tracking Programs, and
- protect any other data exempted from disclosure under the Freedom of Information Act (5 U.S.C. Sec. 552) or other applicable federal laws or privileges.

CDC also intends that if requested or required to disclose information outside of the procedures provided for in this Data Re-Release Plan, CDC will provide the respective data source or sources with prompt written notice of any such request or requirement, thus allowing the data source or sources to assert any applicable privilege or position related to the disclosure of the information.
## Glossary

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Authentication</td>
<td>The process by which the identity of a person requesting access to restricted data or services on the Secure Portal is verified.</td>
</tr>
<tr>
<td>Authorization</td>
<td>The process by which a person’s right to access restricted data or services on the Secure Portal is verified.</td>
</tr>
<tr>
<td>Confidentiality</td>
<td>The treatment of information entrusted to CDC with the expectation that it will not be divulged to others in ways that are inconsistent with the conditions agreed to when the information was originally disclosed.</td>
</tr>
<tr>
<td>Confidentiality breach</td>
<td>An unauthorized release of identifiable or confidential data or information, which may result from a security failure, intentional inappropriate behavior, human error, or natural disaster. A breach of confidentiality may or may not result in harm to one or more individuals.</td>
</tr>
<tr>
<td>Data re-release</td>
<td>Re-release of data provided to CDC</td>
</tr>
<tr>
<td>Data sharing agreement (DSA)</td>
<td>A mechanism by which a data requestor and CDC can define the terms of data access that can be granted to requestors.</td>
</tr>
<tr>
<td>Data Steward</td>
<td>The person(s) responsible for the management, processing, documentation, integrity, and security of information in a data system.</td>
</tr>
<tr>
<td>Disclosure</td>
<td>Unauthorized public disclosure of information about a person, about which data have been collected.</td>
</tr>
<tr>
<td>Disclosure control</td>
<td>Procedures used to limit the risk that information about an individual or potentially identifiable information will be disclosed. These procedures include restricting access, aggregation, variable restriction, suppression, and smoothing.</td>
</tr>
<tr>
<td>Individually identifiable data</td>
<td>Data or information which can be used to establish individual identity, either directly, using items such as name, address, or unique identifying number, or indirectly by linking data about a case-individual with other information that uniquely identifies them.</td>
</tr>
<tr>
<td>Metadata</td>
<td>Data about data that describes the content, quality, and context of the data and provides links to additional information like quality assurance documents and data dictionaries.</td>
</tr>
<tr>
<td>Nationally Consistent Data</td>
<td>Specific data collected, organized, and in some cases pre-processed, on the basis of standards adopted by CDC for the Tracking Network.</td>
</tr>
<tr>
<td>Nationally Consistent Measure</td>
<td>A specific combination/ calculation/ derivation of health and/or environmental data to yield a composite number, such as a rate for</td>
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<tr>
<td>Term</td>
<td>Definition</td>
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<tr>
<td>Specific geographical unit</td>
<td>A specific geographical unit and time period of analysis. Standard measures have been developed/adopted for the Tracking Network through collaboration with state and local partners and data steward.</td>
</tr>
<tr>
<td>National Data Repository</td>
<td>A repository of Tracking Network data that will be used to store, process, and make available data and measures</td>
</tr>
<tr>
<td>Tracking Network</td>
<td>A web-based, secure, distributed network of standardized electronic health and environmental data</td>
</tr>
<tr>
<td>National Public Portal</td>
<td>A portal (Website with special features) that will be accessible to the public to access data and other resources on the Tracking Network</td>
</tr>
<tr>
<td>National Secure Portal</td>
<td>A portal (Website with special features) that will be used by registered users as an interface to securely access data and other resources on the Tracking Network</td>
</tr>
<tr>
<td>Penalties</td>
<td>Penalties for a breach of confidentiality can range from imposing fines or a prison sentence to disciplinary action, barring an individual from receiving data in the future, or termination of employment or contract. Penalties can be established to differentiate willful from inadvertent disclosure and they can be tailored to the type of party responsible for the breach of confidentiality--an employee, contractor, or external data requestor.</td>
</tr>
<tr>
<td>Public Health Information Network Messaging System (PHIN MS)</td>
<td>A messaging protocol developed by CDC to enable the secure exchange of sensitive health information</td>
</tr>
<tr>
<td>Public-use datasets (for environmental data)</td>
<td>Data comprised of aggregated and/or summarized data which have been processed for the purposes of interpretation and presentation of nationally consistent environmental measures.</td>
</tr>
<tr>
<td>Public-use datasets (for health and biomonitoring data)</td>
<td>Data that are comprised of aggregated data with all individually identifiable data or information removed, and with the remaining fields modified or suppressed so as to reduce disclosure risk as much as reasonably possible and such that it is not possible to create any tables that violate the numerator or denominator cell size rules.</td>
</tr>
<tr>
<td>Restricted-access datasets</td>
<td>Data that (1) are minimally aggregated for increased utility, (2) do not contain personal identifiers, (3) contain potentially individually identifiable data as a result of small numbers, and (4) are shared only with authorized users on the Secure Portal.</td>
</tr>
<tr>
<td>Smoothing (spatial)</td>
<td>A statistical approach in which a local measure (e.g., a rate) is adjusted by referring to measures from surrounding geographic units. A key objective is to produce stable estimates.</td>
</tr>
<tr>
<td><strong>Suppression</strong></td>
<td>One of the most commonly used ways of protecting sensitive cells in tabular data. It is obvious that in a row with a suppressed sensitive cell, at least one additional cell must be suppressed, or the value in the sensitive cell could be calculated exactly by subtraction from the marginal total. The same is true for the column which contains a suppressed cell. For this reason, certain other cells must also be suppressed. The suppression of a sensitive cell is termed a primary cell suppression. Suppression of other cells to prevent one from calculating the value in the sensitive cell is termed complementary (or secondary) cell suppression.</td>
</tr>
<tr>
<td><strong>XML</strong></td>
<td>A standard coding language that allows information and services to be encoded with meaningful structure and semantics that computers and humans can understand. XML supports information exchange and can be extended to include user-specified and industry-specified tags</td>
</tr>
<tr>
<td><strong>XML schema</strong></td>
<td>The structure for constraining the contents of XML documents</td>
</tr>
</tbody>
</table>
Bibliography


CDC. Environmental Public Health Tracking Network: Data Transport How-to-Guide. Atlanta, GA: Centers for Disease Control and Prevention; 2008a. Available at: <TBD>

CDC. Environmental Public Health Tracking Network: Recommendations for Nationally Consistent Data and Measures. Atlanta, GA: Centers for Disease Control and Prevention; 2008b. Available at: <TBD>

CDC. Environmental Public Health Tracking Network: Schema Documentation. Atlanta, GA: Centers for Disease Control and Prevention; 2008c. Available at: <TBD>


Appendix A. Application for Access to National Environmental Public Health Tracking Secure Portal

<table>
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<tr>
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<td>Email Address</td>
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Provide a short description as to why access to the Secure Portal is needed. This description should include, but is not limited to: (1) what your intended use of the secure portal is, (2) how the secure portal will help you fulfill your responsibilities or duties, and (3) what tasks or activities the secure portal will help you and/or your organization accomplish.

*Completed form may be submitted*

- Online via the National Environmental Public Health Tracking Public Portal
- Emailed to epht@cdc.gov
- Faxed to 770-488-1538
Appendix B.  Data Request Form for Restricted-Access Data

Requestor’s Information:

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<th>Email Address</th>
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Requested Data:

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<th>States or localities covered</th>
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<th>Time period covered</th>
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Provide a description of the purpose for accessing the data. This description should include but is not limited to: (1) intended use of data, including any protocols or work plans, (2) reason why publicly available data does not meet needs, (3) intended use of any results, and (4) anticipated benefits to public health. If applicable, provide copies of approvals from any relevant institutional review boards, regulatory authorities or other ethics committees.

*Completed form may be submitted*

- Online via the National Environmental Public Health Tracking Public Portal
- Emailed to epht@cdc.gov
- Faxed to 770-488-1538
Appendix C. Data Use Agreement for Restricted-Access Data

I have read and agree to follow the guidelines listed below. They prohibit the knowing disclosure of any information that could be used directly or indirectly to identify individuals.

In accepting access to data, I agree to the following:

I will not permit individuals not identified in this DUA to use the data. I will not release data to other parties. Requests from legal authorities must be referred to CDC.

If I download data from the Secure Portal, I will comply with the following mechanisms for the preservation of confidentiality:

I will password protect the data file(s) I downloaded.

I will treat all data at my desk confidentially and will not give other persons access to this data.

I will keep all hard copies of data runs containing small cells locked in my desk when not in use, shredding them when they are no longer necessary to my analysis.

I will review all printed or electronic output and delete or blackout any direct or indirect identifiers and any small cell counts.

I will not produce copies of the data other than copies that are necessary to accomplish the project.

I will destroy any downloaded data once my access rights have terminated, pursuant to applicable state and federal laws.

I will use the data only for the approved purposes described in my data request form.

I will not attempt to learn the identity of any person included in the data and will not deliberately combine this data with other data for the purpose of matching records to identify individuals. If I should inadvertently discover the identity of any person, then I will make no disclosure or other use of that information and will report the discovery to:

Associate Director for Science
Office of Science Policy and Technology Transfer, CDC
Mail Stop D50
Phone: 404-639-7240
I will send notification of any reports, presentations, slides, interviews, and publications to CDC. If the data sharing agreement with the data source requires approval before release, CDC will request such approval.

I will not imply or state, either in written or oral form, that interpretations based on the data are those of the original data sources or CDC, unless the data user and data providers are formally collaborating on the proposed analysis.

I will acknowledge, in all reports based on these data, the original source of the data as well as CDC.

I understand that failure to comply with these provisions may result in the loss of further access to the Secure Portal and other legal penalties and consequences.

Primary Requestor

Print Name: ________________________________________________________

Signature: ___________________________ Date: _______________

Requestor

Print Name: ________________________________________________________

Signature: ___________________________ Date: _______________

Requestor

Print Name: ________________________________________________________
Signature: ___________________________ Date: _______________

CDC Management

Print Name: ________________________________________________________

Signature: ___________________________ Date: _______________

Completed form may be submitted

- Online via the National Environmental Public Health Tracking Public Portal
- Emailed to epht@cdc.gov
- Faxed to 770-488-1538