

## **Reports Documentation**

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# **National Tuberculosis Surveillance System**

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## **NTSS Overview**

The National Tuberculosis Surveillance System (NTSS) is a secure web-based reports system designed to improve the reporting of tuberculosis cases nationally. NTSS offers dynamic data quality and analysis reporting on RVCT data.

**For technical support, please contact [dtbesupport@cdc.gov](mailto:dtbesupport@cdc.gov) or call 888-300-4261**

## General Reports

### Screen View

NTSS Home | General Report | Contact Us | Help | Logout

**Report**

- General
- Misc
- Counted Cases
- Frequency
- Missing and Deleted
- Messaging

**Query Tools**

- Case Query List

**Quick Tip**  
Select the report and criteria, then click **PDF** for report in PDF format, or **Export** in .csv format.  
Note: The data was last updated on 11/26/2014.

**Report Name** TB Case List

**State** Alabama

**County** Autauga, Baldwin, Barbour, Bibb, Blount, Bullock

**Date Type** Report Date

**Year** 2017 **Quarter** 1 2 3 4

**Case Status** All

**Export** **Clear**

### *TB Case List Report*

The TB Case List Report includes all RVCT variables collected with the exception of any Date Variables. This report enables users to examine the all the data for an individual case received by the Division of TB Elimination.

### *Content Validation Report*

This report shows detailed Health Level Seven (HL7) errors received in messages sent from your state system. HL7 rules are a set of standards for data formats and content that allows different health information systems to easily and effectively communicate with one another. There is a code for each error received. For example, a case will appear on this report if the Date Reported is not equal to or before the Date Counted.

### *Case Verification Report*

The Case Verification report includes Verified Cases and Non-Verified Records (i.e., Suspect and Not a Verified Case) and generates a spreadsheet showing the case verification classification (i.e. Positive Culture, Positive NAA (Nucleic Acid Amplification), Positive Smear/Tissue, Clinical Case Definition, and Verified by Provider Diagnosis).

### *Inconsistent Data Report*

This report shows inconsistencies and outlier conditions received in messages sent from your state system. An item that appears on this report is not absolutely incorrect; however it is not consistent with normal expected data. The item may warrant a second look to ensure that there is not a data entry error. For example, a case will appear on this report if a patient's age is greater than or equal to 100 years old. Is it reasonable for a TB patient to be greater than 100 years old? It's possible, but the TB program would like the state to verify that this data is accurate.

## MUNK Report (Invalid Missing and Unknown Report)

### Screen View

The screenshot displays the NTSS MUNK Report interface. On the left is a navigation menu with options: Report, General, MUNK, Counted Cases, Frequency, Missing and Deleted, Messaging, Query Tools, and Case Query List. The main content area is titled 'MUNK Report' and includes a 'Quick Tip' box stating: 'Select the report and criteria, then click PDF for report in PDF format, or Export in .csv format. Note: The data was last updated on 11/26/2014.' Below this, there are two tabs: '\*Detailed' (selected) and 'Summary'. The filter section includes: a 'State' dropdown set to 'Alabama'; a 'County' dropdown with options: Autauga, Baldwin, Barbour, Bibb, Blount, and Bullock; a 'Date Type' dropdown set to 'Report Date'; a 'Year' dropdown set to '2017'; a 'Quarter' section with radio buttons for 1, 2, 3, and 4; an 'Additional Filter' section with radio buttons for 'By Questions' (selected) and 'By Groups'; a 'Questions' dropdown with options: '03 - State Case ID', '03 - Linking Case 1 Number', '03 - Linking Case 1 Reason', and '03 - Linking Case 2 Number'; and a 'Question Groups' dropdown set to 'CALC-Case Verification Algorithm'. At the bottom of the filter section are three buttons: 'PDF', 'Export', and 'Clear'.

This report generates a list of NTSS data with incomplete Missing and or Unknown variable information by specific question or by groups of questions.

For technical support, please contact [dtbesupport@cdc.gov](mailto:dtbesupport@cdc.gov) or call 888-300-4261

## Counted Case Reports

### Screen View

The screenshot shows the 'Counted Cases Report' interface within the NTSS system. On the left is a navigation menu with options like 'Report', 'General', 'MCHC', 'Counted Cases', 'Frequency', 'Missing and Deleted', 'Messaging', 'Query Tools', and 'Case Query List'. The main content area has a header 'Counted Cases Report' and a 'Quick Tip' box. Below this, there are filters for 'Report Name' (set to 'Counted Case'), 'State' (set to 'Alabama'), 'County' (a list including Autauga, Baldwin, Barbour, Bibb, and Blount), and 'Year' (a dropdown menu with 2017, 2016, and 2015). At the bottom are buttons for 'PDF', 'Export', and 'Clear'.

### *Counted Case Report*

This report includes all cases counted for a specific year. The summary report will display aggregate cases counted by quarter and total by year.

### *Non Counted Case Report*

This report includes all not counted cases for a specific year. The summary report will display aggregate cases by quarter and total by year.

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# Frequency Report

## Screen View

The screenshot shows the 'Surveillance Frequency Report' web application. On the left is a navigation menu with links: 'NTSS Home', 'Report', 'General', 'MUNK', 'Counted Cases', 'Frequency', 'Missing and Deleted', 'Messaging', 'Query Tools', and 'Case Query List'. The main content area has a title bar 'Surveillance Frequency Report' and a 'Quick Tip' box stating: 'Select the report and criteria, then click PDF for report in PDF format, or Export in csv format. Note: The data was last updated on 11/25/2014.' Below this, there are dropdown menus for 'State' (set to Alabama) and 'Year' (set to 2017). A 'Questions' list is shown with items: Q05 - Case Verification, Q07 - Previous TB, Q08A - 5 Year Age Group, Q08B - Broad Age Group, Q09 - Sex, and Q10 - Ethnicity. At the bottom of the main area are three buttons: 'PDF', 'Export', and 'Clear'. The top right corner of the page contains links for 'Contact Us', 'Help', and 'Logout'.

## Frequency Report

The Surveillance Frequency Report generates frequency tables that display both the number of occurrences and percentages for various RVCT data items pertaining to patient demographics, clinical data and case follow-up information for counted cases.

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## Missing and Deleted Reports

### Screen View

The screenshot shows the NTSS Home interface. On the left is a navigation menu with links: Report, General, MARK, Counted Cases, Frequency, Missing and Deleted, Messaging, Query Tools, and Case Query List. The main content area is titled 'Missing Date and Deleted Case Report'. It features a 'Quick Tip' box with a yellow background and a blue icon, containing the text: 'Select the report and criteria, then click Run. Note: The data was last updated on 11/26/2014.' Below this, there are three dropdown menus: 'Report Name' (set to 'Missing Date'), 'State' (set to 'Alabama'), and 'County' (with a list of counties: Autauga, Baldwin, Barbour, Bibb, Blount, and Bullock). At the bottom of the form are three buttons: 'PDF', 'Export', and 'Clear'. In the top right corner of the interface, there are links for 'Contact Us', 'Help', and 'Logout'.

### *Missing Date Report*

This report lists cases that contain missing critical dates, i.e., Report date and Count Date.

### *Deleted Case Report*

This report lists cases that have been deleted by the state. They will not appear on any other reports.

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# Messaging Reports

## Screen View

The screenshot shows the NTSS Messaging Report interface. On the left is a navigation menu with 'NTSS Home' at the top, followed by 'Report' (with sub-items: General, MURK, Counted Cases, Frequency, Missing and Deleted, and Messaging), and 'Query Tools' (with sub-item: Case Query List). The main content area is titled 'Messaging Report' and includes a 'Quick Tip' box stating: 'Select the report and criteria, then click PDF for report in PDF format, or Export in .csv format. Note: The data was last updated on 11/26/2014.' Below this, there are three dropdown menus: 'Report Name' (set to 'Message Transmission Report'), 'State' (set to 'Alabama'), and 'Date Range' (set to '1000 days'). At the bottom of the form are three buttons: 'PDF', 'Export', and 'Clear'. In the top right corner of the interface, there are links for 'Contact Us', 'Help', and 'Logout'.

### *Message Transmission Report*

This report gives a total number of HL7 messages sent by a state.

### *Variables Never Sent Report*

This report lists any variables that have never been sent to CDC in a HL7 message.

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## NTSS Report Variable Definitions

### **TB Case List Report**

**Report\_Date:** Is the date (usually month and year) the health department first suspected that the patient might have TB, or the date the health department first received notification from a health-care provider that a patient was suspected of having TB, e.g., 10/2011.

**Error\_Variable\_1\_Desc:** Is the description of the first PHIN Variable ID code for a particular RVCT question. e.g., TB100 is the PHIN Variable ID for Date Reported.

**Content\_Variable\_Value\_1:** This field shows what was received in your message. e.g., 2/5/2009

**Error\_Variable\_2:** This is a Public Health Information Network (PHIN) variable ID. This is the second variable that appears in a message for a particular HL7 error code. These variables coincide with the questions on the RVCT form.

**Error\_Variable\_2\_Desc:** Is the description of the second PHIN Variable ID code for a particular RVCT question. e.g., TB111 is the PHIN Variable ID for Date Counted.

**Content\_Variable\_Value\_2:** This field shows the data received in your message. e.g., 2/2/2009 (Notice that the count date is before the report date, therefore it will appear on this report.)

**TB\_Create\_Date:** Date the report was created.

### **Content Validation Report**

**State\_Cd:** The numeric state FIPS code.

**State\_Alpha\_Cd:** The state abbreviation.

**State\_Alpha\_Cd\_Desc:** The state name.

**Originating\_System:** The surveillance system the case originated from (NBS, eRVCT, COT or State Developed).

**Case\_Status:** The status of the case (all, counted, burden, no case, suspect, and unknown).

**Record\_Status:** Indicates if the record is new or updated.

**Last\_Update\_Date:** The date the state sent the case to CDC.

**Case\_Local\_ID:** Sending system-assigned local ID of the case investigation with which the subject is associated.

**State\_Case\_ID:** Is a unique 15-character identifier assigned by the state and used for reporting TB cases to CDC using the Report of a Verified Case of Tuberculosis (RVCT) form. The first four characters are the locally assigned identification number, e.g., 2006GA200602203.

**City\_County\_Case\_ID:** Other local identification number for the case.

**County\_Cd:** The numeric county FIPS code.

**County\_Cd\_Desc:** The County name.

**Report\_Date:** Is the date (usually month and year) the health department first suspected that the patient might have TB, or the date the health department first received notification from a health-care provider that a patient was suspected of having TB, e.g., 10/2011.

**Error\_Variable\_1\_Desc:** Is the description of the *first* PHIN Variable ID code for a particular RVCT question (e.g., TB100 is the PHIN Variable ID for Date Reported).

**Content\_Variable\_Value\_1:** This field shows what was received in your message. e.g., 2/5/2009

**Error\_Variable\_2:** This is a Public Health Information Network (PHIN) variable ID. This is the second variable that appears in a message for a particular HL7 error code. These variables coincide with the questions on the RVCT form.

**Error\_Variable\_2\_Desc:** Is the description of the *second* PHIN Variable ID code for a particular RVCT question. e.g., TB111 is the PHIN Variable ID for Date Counted.

**Content\_Variable\_Value\_2:** This field shows the data received in your message. e.g., 2/2/2009

*(Notice that the count date is before the report date, therefore it will appear on this report.)*

**TB\_Create\_Date:** Date the report was created.

### **Case Verification**

**State\_Desc:** The state name.

**State\_Case\_ID:** Is a unique 15-character identifier assigned by the state and used for reporting TB cases to CDC using the Report of a Verified Case of Tuberculosis (RVCT) form. The first four characters are the report year, the next two characters are the state abbreviation, and the remaining characters are a locally assigned identification number, e.g., 2006GA200602203

**Local\_System\_ID:** Is a unique identifier assigned and used by the state. e.g., ID = 400

**Report\_Year:** Is the four digit year the health department first suspected that the patient might have TB, or the date the health department first received notification from a health-care provider that a patient was suspected of having TB.

**State\_Vercrit\_Cd:** The code calculated or selected from your state system for verified cases.

**State\_Vercrit\_Desc:** The description of verified cases from your state system

**CDC\_Vercrit\_Cd:** The code calculated by CDC for verified cases. 0, 1, 1A, 2, 3, 4 and 5.

**CDC\_Vercrit\_Desc:** The description of the verified cases calculated by CDC. Suspect, Not a Verified Case, Positive Culture, Positive NAA, Positive Smear/Tissue, Clinical Case Definition, and Verified by Provider Diagnosis.

**TB\_Create\_Date:** Date the report was created.

### **Inconsistent Data Report**

**State\_Cd:** The numeric state FIPS code.

**State\_Alpha\_Cd:** The state abbreviation.

**State\_Alpha\_Cd\_Desc:** The state name.

**Originating\_System:** The surveillance system the case originated from (NBS, eRVCT, COT or State Developed).

**Case\_Status:** The status of the case (all, counted, burden, no case, suspect, and unknown).

**Record\_Status:** Indicates if the record is new or updated.

**Last\_Update\_Date:** The date the state sent the case to CDC.

**Case\_Local\_ID:** Sending system-assigned local ID of the case investigation with which the subject is associated.

**State\_Case\_ID:** Is a unique 15-character identifier assigned by the state and used for reporting TB cases to CDC using the Report of a Verified Case of Tuberculosis (RVCT) form. The first four characters are the locally assigned identification number, e.g., 2006GA200602203.

**City\_County\_Case\_ID:** Other local identification number for the case.

**County\_Cd:** The numeric county FIPS code.

**County\_Cd\_Desc:** The County name.

**Report\_Date:** Is the date (usually month and year) the health department first suspected that the patient might have TB, or the date the health department first received notification from a health-care provider that a patient was suspected of having TB, e.g., 10/2011.

**Derived\_Report\_Quarter:** The quarter the case was reported. The format is yyyy.q e.g., 2010.4 digit year and a 1 digit quarter.

**Count\_Date:** The date that the count authority reviewed the RVCT and determined whether to officially count the case. The format is YYYYMMDD. e.g., 20071031

**Derived\_Count\_Quarter:** The quarter the case was counted. The format is yyyy.q e.g., 2010.4 digit year and a 1 digit quarter.

**Inconsistent\_Error\_Cd:** A unique code for each error e.g., ID0802

**Inconsistent\_Error\_Cd\_Desc:** The RVCT question number and a detailed description of the error received, e.g. Q08 Age at Report (DEM115-Date of Birth and INV111-Date Reported) is less than 18 years and greater than or equal to 75 years old

**Content\_Variable\_1:** This is a Public Health Information Network (PHIN) variable ID. This is the first variable that appears in a message for a particular HL7 error code. These variables coincide with the questions on the RVCT form.

**Content\_Variable\_Desc\_1:** Is the description of the *first* PHIN Variable ID code for a particular RVCT question. e.g., CALC (INV111-DEM115); the calculated age (INV111) Date Reported minus (DEM115) Date of Birth).

**Content\_Variable\_Value\_1:** This field shows what was received in your message. The age of 5 will display. e.g., (INV111) 2/5/2011 - (DEM115) 3/6/2006

**Content\_Variable\_2:** This is a Public Health Information Network (PHIN) variable ID. This is the second variable that appears in a message for a particular HL7 error code. These variables coincide with the questions on the RVCT form.

**Content\_Variable\_Desc\_2:** Is the description of the *second* PHIN Variable ID code for a particular RVCT question. e.g., Q28 resident of a federal prison (TB129-Resident of Correctional Facility at Time of Diagnosis).

**Content\_Variable\_Value\_2:** This field shows the data received in your message. e.g., PHC46 – Federal Prison.

*(Notice that the patient is 5 years old and is a resident of a Federal Prison, therefore it will appear on this report.)*

### **Invalid Missing and Unknown Report (MUNK)**

**TB\_State\_Reporting:** The name of the state reporting to CDC.

**Case\_Status\_Desc:** Indicates whether the case is counted or not counted.

**State\_Case\_NUM:** Is a unique 15-character identifier assigned by the state and used for reporting TB Cases to CDC using the Report of a Verified Case of Tuberculosis (RVCT) form. The first four characters are the report year, the next two characters are the state abbreviation, and the remaining characters are a locally assigned identification number, e.g., 2006GA200602203

**Local\_System\_ID:** Is a unique identifier assigned and used by the state. e.g., ID = 400

**City\_County\_Case\_Num:** Is a locally assigned unique 15-character identifier assigned by the state,  
e.g., 2006GA123456789

**Reporting\_County\_Desc:** Indicates the county in which the patient lived at the time the case was reported.

**Date\_Reported:** The date the health department first suspected that the patient might have TB, or the date the health department first received notification from a health-care provider that a patient was suspected of having TB. The format is YYYYMM. e.g., 200703

**Date\_Quarter:** Is the count date, but if the count date is null then the report is used; it also indicates the quarter of the year. Jan-March = 1, Apr-Jun = 2, Jul-Sept=3 and Oct-Dec = 4<sup>th</sup>. The format is YYYY.quarter. e.g., 2007.1

**Question\_Desc:** The description of the missing or unknown information.

**Value:** This field shows the data value received in your message. e.g., UNK

**Value\_Desc:** The description of the data value entered. e.g., Unknown

**TB\_Create\_Date:** The date the report was created.

### **Counted Case Report**

**State:** The name of the state reporting to CDC.

**County:** The full county name.

**Year/Count\_Year (Summary):** The year that the case was counted, XXXX is the four digit year.

**Quarter/Count\_Quarter (Summary):** The quarter that the case was counted, XXXX.X is the four digit year plus the quarter i.e. 2012.2

**Counted/Case\_Count:** The number of cases counted in a particular year and quarter by county.

**Subtotal:** The total number of cases counted by county.

**Year total:** The total number of cases counted.

### **Non-Counted Case Report**

**State:** The name of the state reporting to CDC.

**County:** The full county name.

**Year/Report\_Year (Summary):** The year that the case was reported, XXXX is the four digit year.

**Quarter/Report\_Quarter (Summary):** The quarter that the case was reported, XXXX.X is the four digit year plus the quarter i.e. 2012.2

**Counted/Case\_Count:** The number of cases counted in a particular year and quarter by county.

**Subtotal:** The total number of cases counted by county.

**Year total:** The total number of cases counted.

**Unknown/Unknown\_Count:** Cases that do not fall into any of the categories below.

**No Case/No Case Count:** Cases classified as Not TB.

**Suspect/Count Suspect:** Cases that do not have enough information to be verified as a case.

**Burden/Burden Count:** Cases reported in one jurisdiction and counted in another.

### **Missing Date Report**

**State\_Cd:** The numeric state FIPS code.

**State\_Alpha\_Cd:** The state abbreviation.

**State\_Alpha\_Cd\_Desc:** The state name.

**Originating System:** The surveillance system the case originated from (NBS, eRVCT, COT or State Developed).

**Case\_Status:** The status of the case (all, counted, burden, no case, suspect, and unknown).

**Record\_Status:** Indicates if the record is new or updated.

**Last\_Update\_Date:** The date the state sent the case to CDC.

**Case\_Local\_ID:** Sending system-assigned local ID of the case investigation with which the subject is associated.

**State\_Case\_ID:** Is a unique 15-character identifier assigned by the state and used for reporting TB cases to CDC using the Report of a Verified Case of Tuberculosis (RVCT) form. The first four characters are the locally assigned identification number, e.g., 2006GA200602203.

**City\_County\_Case\_ID:** Other local identification number for the case.

**County\_Cd:** The numeric county FIPS code.

**County\_Cd\_Desc:** The County name.

**Report\_Date:** Is the date (usually month and year) the health department first suspected that the patient might have TB, or the date the health department first received notification from a health-care provider that a patient was suspected of having TB, e.g., 10/2011.

**Derived\_Report\_Quarter:** The quarter the case was reported. The format is yyyy.q e.g., 2010.4 digit year and a 1 digit quarter.

**Count\_Date:** The date that the count authority reviewed the RVCT and determined whether to officially count the case. The format is YYYYMMDD. e.g., 20071031

**Derived\_Count\_Quarter:** The quarter the case was counted. The format is yyyy.q e.g., 2010.4 digit year and a 1 digit quarter.

### **Deleted Case Report**

**State\_Cd:** The numeric state FIPS code.

**State\_Alpha\_Cd:** The state abbreviation.

**State\_Alpha\_Cd\_Desc:** The state name.

**Originating\_System:** The surveillance system the case originated from (NBS, eRVCT, COT or State Developed).

**Case\_Status:** The status of the case (all, counted, burden, no case, suspect, and unknown).

**Record\_Status:** Indicates if the record is new or updated.

**Last\_Update\_Date:** The date the state sent the case to CDC.

**Case\_Local\_ID:** Sending system-assigned local ID of the case investigation with which the subject is associated.

**State\_Case\_ID:** Is a unique 15-character identifier assigned by the state and used for reporting TB cases to CDC using the Report of a Verified Case of Tuberculosis (RVCT) form. The first four characters are the locally assigned identification number, e.g., 2006GA200602203.

**City\_County\_Case\_ID:** Other local identification number for the case.

**County\_Cd:** The numeric code for county..

**County\_Cd\_Desc:** The County name.



**Report\_Date:** Is the date (usually month and year) the health department first suspected that the patient might have TB, or the date the health department first received notification from a health-care provider that a patient was suspected of having TB, e.g., 10/2011.

**Derived\_Report\_Quarter:** The quarter the case was reported. The format is yyyy.q e.g., 2010.4 digit year and a 1 digit quarter.

**Count\_Date:** The date that the count authority reviewed the RVCT and determined whether to officially count the case. The format is YYYYMMDD. e.g., 20071031

**Derived\_Count\_Quarter:** The quarter the case was counted. The format is yyyy.q e.g., 2010.4 digit year and a 1 digit quarter.

### **Message Transmission Report**

**State\_Alpha\_Cd:** The state abbreviation.

**State\_Desc:** The state name.

**Date\_Updated:** The date the state sent the case to CDC.

**Total\_Message\_Count:** The number of HL7 messages received.

### **Variables Never Sent Report**

**State\_Alpha\_Cd:** The state abbreviation.

**PHIN\_Variable:** HL7 data element that corresponds to an RVCT question, e.g., INV173 is the PHIN variable for Question 3. State Case Number.

**RVCT\_Question:** Question on the RVCT form.

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