

# NW HPA Enhanced surveillance for TB Web Site User Guide

**IMPORTANT: This site uses pop-up windows. If your web browser uses a pop blocker, change the options to allow pop-ups from this site. If you are unsure how to do this contact your IT support.**

## Data Analysis

This option enables interrogation of the NW HPA Enhanced Surveillance TB dataset. Using this function tables and charts of aggregated TB data can be produced. Analysis can be performed at North West region, Strategic Health Authority, Primary Care Trust and Local Authority level. Data is available from 2000 onwards. Where denominator data is available it is possible to calculate rates in addition to analysis of frequency. The following variables are available for analysis Quarter, Year, Age Band, Sex, Ethnic group, Born in the UK, Site of Disease and Sputum Result.

To access this option click on the "Data Analysis" button on the index page.

The page shown below should now be visible. The arrows indicate the five simple steps required to analyse the data and produce a table of the results.

Area Size	<input checked="" type="radio"/> Region <input type="radio"/> SHA <input type="radio"/> PCT <input type="radio"/> Local Authority	1
Area	North West	2
Year	All Years	3
Output	<input checked="" type="radio"/> Numbers <input type="radio"/> Rates	4
Select Data	County	5
Order By	None	

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### Step 1. Selecting the correct area size for analysis

There are four options for area size Region, SHA (Strategic Health Authority), PCT (Primary Care Trust), Local Authority. Click on the radio button to the left of the area size you wish to use.

- **Region** – if you have selected this option “North West” will be shown in the drop down list below. Analysis will include all cases notified in the North West.
- **SHA** – if you have selected this option, you must chose either “Cheshire & Merseyside”, “Cumbria & Lancashire” or “Greater Manchester” from the drop down list below. Analysis will include all cases notified within SHA you have selected.
- **PCT** – the drop down list below will contain all PCTs in the North West listed alphabetically. Select the PCT you wish to analyse the data for. All cases resident in this PCT will be included in the analysis.
- **Local Authority** – the drop down list below will contain all Local Authorities in the North West listed alphabetically. Select the Local Authority you wish to analyse the data for. All cases resident in this Local Authority will be included in the analysis.

## Step 2. Selecting the time period for analysis

It is possible to analyse by a single year or to include all cases from 2000 onwards. Select the year you require or all years from the drop down list. If you select a specific year all cases notified in that year will be included. It is not possible to select multiple years other than all years.

## Step 3. Selecting the output type

The values shown in the table can be either total numbers or rates. To select the output type you require click on the appropriate radio button. Rate calculations are only possible if there is denominator data available. It is possible to produce rates for analysis by geographical area, age band, sex and ethnic group. For detailed information on the denominator data used to calculate rates click on the “Information on Denominator Data” link on the index page.

## Step 4. Select the analysis variables

It is possible to analyse by one or two variables. To analyse by one variable select an option from the “Select Data” drop down list and select “None” in the “Order By” drop down list. To analyse by two variables select an option in the “Select Data” drop down list and select a different option from the “Order By” drop down list. The option selected in the “Select Data” list will appear in the rows of the table and the option selected in the “Order By” list will appear in the columns of the table. The variables available are as follows: -

- **County** – this option categorises the data by the cases’ county of residence, either Cheshire, Cumbria, Lancashire, Manchester or Merseyside. Missing includes cases where no county of residence has been reported for the case.
- **PCT** – this option categorises the data by the cases’ PCT of residence. Missing includes cases where no PCT of residence has been reported for the case.
- **Local Authority** – this option categorises the data by the cases’ Local Authority of residence. Missing includes cases where no Local Authority of residence has been reported for the case.
- **SHA** - this option categorises the data by the cases’ SHA of residence, either Cheshire & Merseyside, Cumbria, & Lancashire or Greater Manchester
- **Quarter** –this option groups data by date of notification into years and quarters. Quarter 1 = Jan – Mar, Quarter 2 = Apr – Jun, Quarter 3 = Jul – Sep, Quarter 4 = Oct –Dec.
- **Year** - this option groups data by date of notification into years. This option will only work if “All Years” has been selected as the time period.
- **Age band** – data is grouped into six age bands 0-14, 15-34, 35-54, 55-74, 74+ and unknown.
- **Sex** – data is grouped into Male, Female and Unknown
- **Ethnic Group** – data is grouped into Bangladeshi, Black African, Black Caribbean, Black Other, Chinese, Indian, Other, Pakistani, Unknown and White.
- **Born in the UK** –this option allows cases born in the UK to be separated from cases born abroad. True indicates the case was born in the UK, false indicates the case

was born outside the UK and Unknown includes cases where place of birth was unknown.

- **Site of Disease** – this option separates cases into pulmonary cases and non-pulmonary cases.
- **Sputum Result** – data is grouped into Negative, Positive, Test Not Done and Unknown depending on the result of the smear test performed on a patient’s saliva. This analysis only includes patients with pulmonary TB.

**Note:** The option selected from the “Select Data” list will comprise the x-axis of the chart and the option selected from the “Order By” list will comprise the series of the chart.

### Step 5. Perform analysis

Once the correct analysis criteria has been selected click on the “Analyse Data” button.

A pop up window similar the one shown below should appear.

**If the table does not appear check whether there is a pop-up blocker active within your web browser. It is possible to change the options to allow pop-ups from selected sites. If you are unsure how to do this contact your IT support.**

EXCLUDE	Ethnic Group	Pulmonary	Non-Pulmonary
<input type="checkbox"/>	Bangladeshi	36	50
<input type="checkbox"/>	Black African	160	126
<input type="checkbox"/>	Black Caribbean	18	16
<input type="checkbox"/>	Black Other	5	5
<input type="checkbox"/>	Chinese	21	26
<input type="checkbox"/>	Indian	234	339
<input type="checkbox"/>	Other	76	58
<input type="checkbox"/>	Pakistani	425	503
<input type="checkbox"/>	Unknown	11	15
<input type="checkbox"/>	White	866	245

If you wish to save this table to your local drive there are two options. Data can be exported in excel format or CSV (comma separated values) format. Alternatively you can view the data in a chart.

### Exporting to Excel

Click on the “Export to Excel” button in the pop-up window of the table you wish to save. An excel sheet containing the data will now appear in a new web browser window. To save the data to a local drive simply click on the “File” menu item. Select the “Save As” menu option. The Save As dialog box will appear and you can save the excel sheet to the location of your choice.

## Exporting to CSV

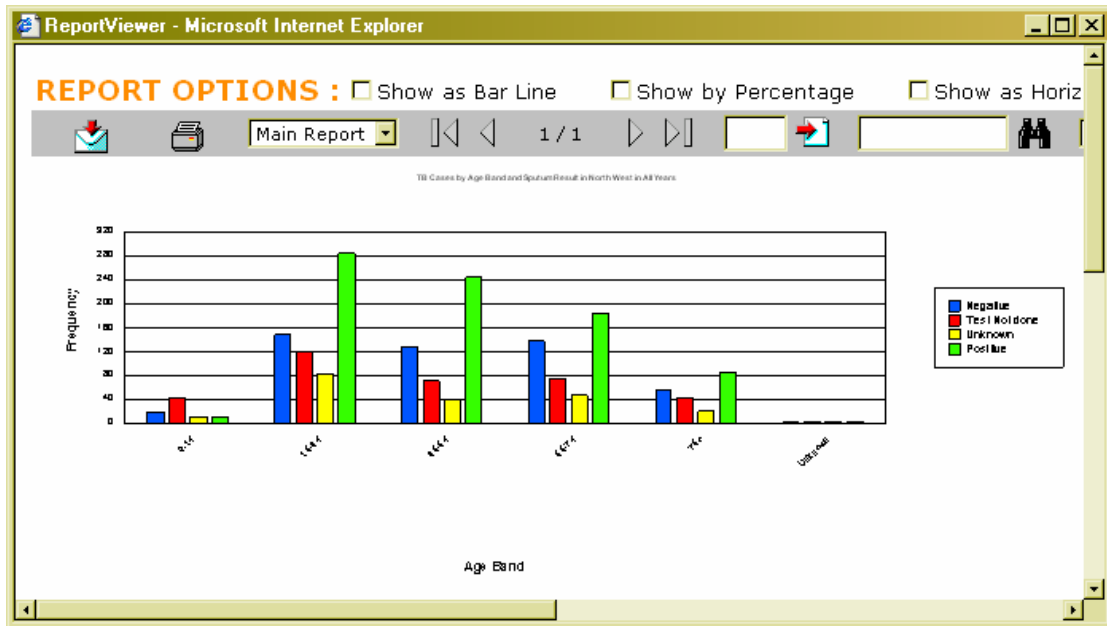
This is a text file and it is the fastest way to export the data in the table.

Click on the "Export to CSV" button in the pop-up window of the table you wish to save. A text file containing the data will now appear in a new web browser window. To save the data to a local drive simply click on the "File" menu item. Select the "Save As" menu option. The Save As dialog box will appear and you can save the excel sheet to the location of your choice.

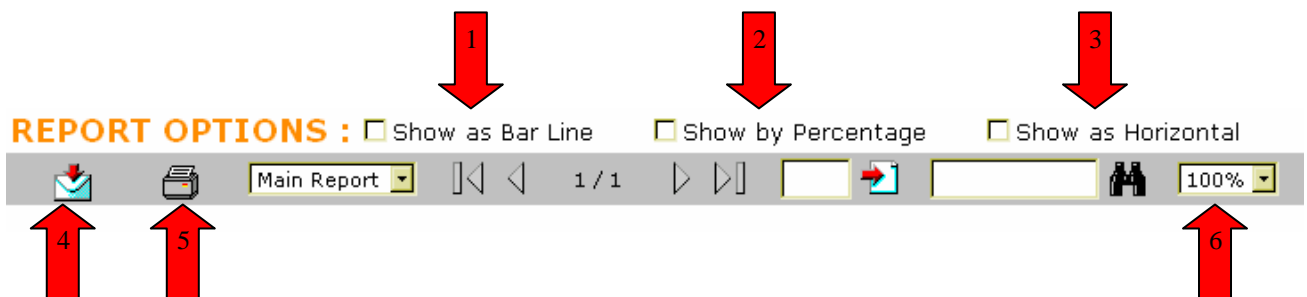
## Viewing the data in a chart

If you wish to view the data as a chart click on the "Show As Chart" button in the window of the table.

A chart similar to the one shown below should appear.

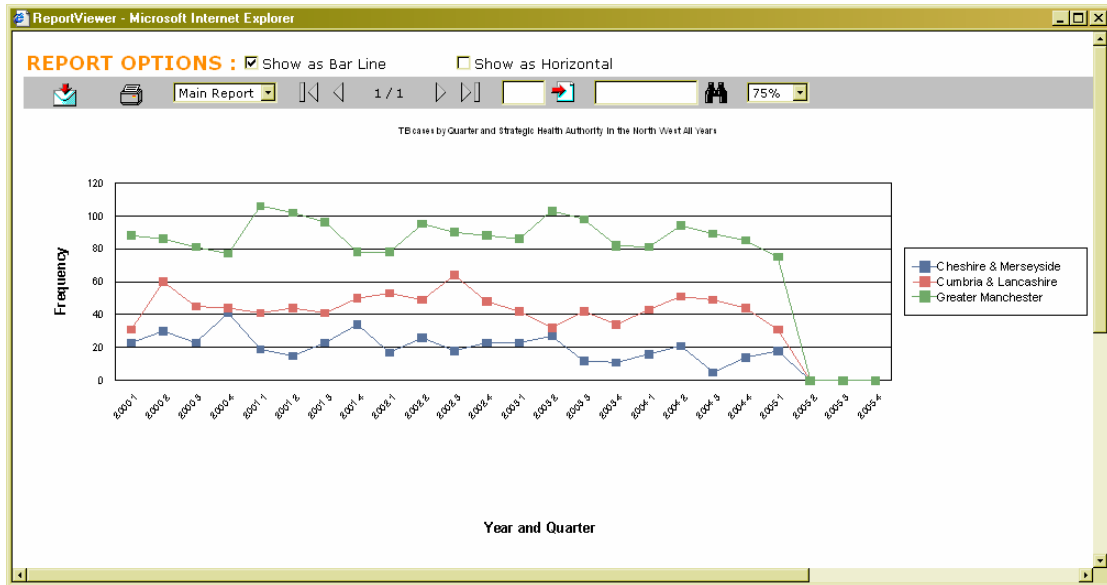


Using the option bar at the top it is possible to change the type of chart, save the chart and print the chart (see below).



### Option 1. Show as Bar Line

If you click on the check box of this option the chart will change from a bar chart to a line chart. An example of this type of chart is shown below.



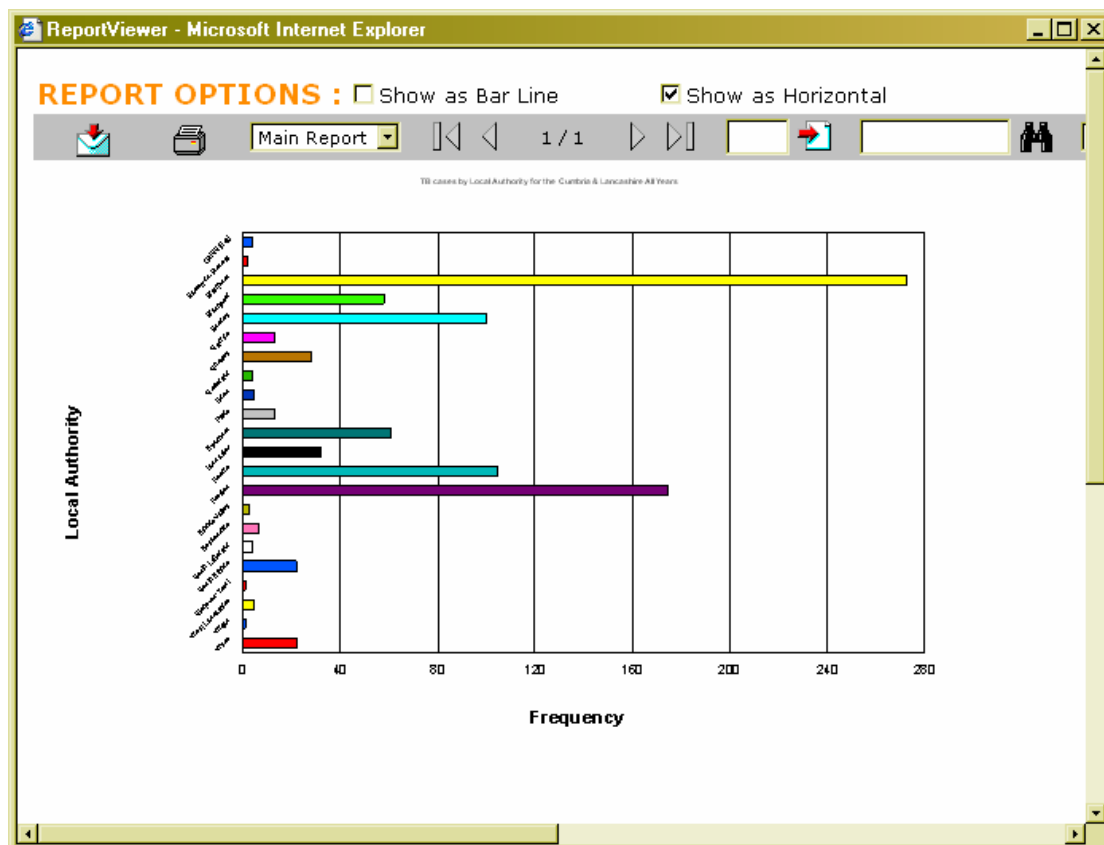
### Option 2. Show by Percentage

If you click on the check box of this option the Y-axis of the chart will change from total cases to percentage of cases. An example of this type of chart is shown below. This option is not available if the data is output as a rate.



### Option 3. Show as Horizontal

If you click on the check box of this option the chart is rotated through 90 degrees. An example of this type of chart is shown below.



**Option 4. Save Chart**

To save a chart, click on the envelope icon. A window will open asking you to select the format you wish the chart to be saved in. Recommended formats are MS Excel or PDF. A new web browser window will appear containing the chart. To save the data to a local drive simply click on the “File” menu item. Select the “Save As” menu option. The Save As dialog box will appear and you can save the excel sheet to the location of your choice. If a PDF file type was chosen click on the Disk icon to save the chart.

Alternatively it is possible to right click on the chart and select the Save Picture As option from the pop up menu.

**Option 5. Print Chart**

To print a chart, click on the printer icon. A window will open, click on the “OK” button. A new web browser window will appear containing the chart in PDF format. Click on the printer icon to print the report. This option will not work if Adobe Acrobat is not installed on your computer.

Alternatively it is possible to right click on the chart and select the Print Picture option from the pop up menu.

**Option 6. Resize chart**

This drop down list can be used to control the size of the chart in the web browser window.

**Excluding data from a chart**

To exclude a row of data from the table appearing in the chart, check the box for that row in the table. When you click on the “Show As Chart” button that row will be excluded.

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By clicking on this button you will be returned to the index page.

## Extract Online

This option is only available to medical staff with sufficient security permissions. The “Extract Online” button on the index page will only be visible to staff with the correct security status. If you cannot see the “Extract Online” button and need access contact the system administrator. This can be done using the “Email System Administrator” link on the index page.

This option allows staff to access individual records from the Enhanced Surveillance TB dataset for the purposes of case management, more detailed analysis and audit.

To access this option click on the “Extract Online” button on the index page.

The page shown below should now be visible. The arrows indicate the four simple steps required to extract data.

Health Protection Agency

Username : Administrator [LogOff]  
Login Time : 1/12/2006 2:26:19 PM

Home > NW HPA Enhance Surveillance for TB

Select Area	North West	1
Select Year	All Years 2000 2001	2
Include PID	<input type="checkbox"/>	
Include Site of Infection	<input type="checkbox"/>	
Include Ethnicity	<input type="checkbox"/>	
Include Microbiology	<input type="checkbox"/>	3
Include Antibiotic Resistance	<input type="checkbox"/>	
Include Treatment	<input type="checkbox"/>	
Include Social Factors	<input type="checkbox"/>	
Include Mycobnet Data	<input type="checkbox"/>	
Get All Fields	<input type="checkbox"/>	

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### Step 1. Select area

It is possible to select all cases in the North West, cases notified to a specific HPU or cases resident within a Local Authority. Select the area size you require from the drop down list.

### Step 2. Select time period

It is possible to extract data for a single year or to include all cases from 2000 onwards. Select the year you require or all years from the drop down list. If you select a specific year all cases notified in that year will be included.

### Step 3. Choose fields for inclusion in extract

A core set of fields is returned for any extract. These are UniqueID as used in the Enhanced Surveillance TB database, Notify indicating whether the case is still considered to be TB, Sex, Age, Date of Onset, Local Authority, PCT, HPU, ClassConfirmed indicating whether the diagnosis is clinical or culture confirmed and Date Of Notification.

To add other fields to the extract check the boxes beside the options listed. "Get All Fields" will return the entire dataset for a specific time period and area. Any combination of options can be checked for inclusion in the extract criteria. "Get All Fields" is the exception since this returns the entire dataset no other options can be used in combination with this option. The fields selected for each option are listed below.

- **Include PID** –Surname, Forename, NHS number, Date of Birth, Street, Town and Postcode.
- **Include Site of Infection** – SputumSmearPos, SitePulmonary , SiteNonPulmonaryPleural, SiteNonPulmonaryITLymphNodes, SiteNonPulmonaryLymphNode, SiteNonPulmonaryLymphNodeText, SiteNonPulmonaryBoneSpine, SiteNonPulmonaryBoneOther, SiteNonPulmonaryBoneOtherText, SiteNonPulmonaryCNSMeningitis, SiteNonPulmonaryCNSOther, SiteNonPulmonaryCNSOtherText, SiteNonPulmonaryGU, SiteNonPulmonaryGUText, SiteNonPulmonaryGI, SiteNonPulmonaryGIText, SiteNonPulmonaryLaryngeal, SiteNonPulmonaryCryptic, SiteNonPulmonaryMiliary, SiteNonPulmonaryMiliaryText, SiteNonPulmonaryOther, SiteNonPulmonaryOtherText, SiteNonPulmonaryUnknown, SiteUnknown, MicroscopySputumResult, OrganPartAffected.
- **Include Ethnicity** - EthnicGroup, EthnicGroupText, BornInUK, CountryOfBirth, CountryOfBirthOther, YearEntryUK
- **Include Microbiology** - CultureSpeciesMtuber, CultureSpeciesMbovis, CultureSpeciesMafricanum, CultureSpeciesOtherMycob
- **Include Antibiotic Resistance** - Isoniazid, Rifampicin, Streptomycin, Pyrazinamide, Ethambutol,
- **Include Treatment** - HospitalInPatient, PreviousTreatment , AdmissionDate, DateDeath, OutcomeReportFlag
- **Include Social Factors** - FldAgricworkswithCattle, AgricworkswithAnimals, TravelOutsideUK, Occupation, OccupationType, OccupationPrevCategory, OccupationOther
- **Include Mycobnet Data** - Source\_Year, Culture, MycIsoniazid, MycRifampicin, MycPyrazinamide, MycEthambutol, Combined\_SpeciesMtuber, Combined\_SpeciesMbovis, Combined\_SpeciesMafricanum, CombinedMicroscopySputumResult, Updated\_site\_pulmonary2, Nation, Pulmonaryextrapulmonary, cleanedBornInUK2, cleaned\_CountryOfBirth, cleaned\_CountryOfBirthOther, EuroTB\_country\_code, Derived\_Age, Derived\_AgeRange.

**Note:**

1) If you have selected North West or a geographical area outside the zone of your log in you will be unable use the “Include PID” option or the “Get All Fields” option.

2) Mycobnet data has come from the Centre for Infections by matching cases by Surname, Forename and Date of Birth to laboratory data. For some cases there will be not a match to Mycobnet data.

**Step 5. Extract Data**

Once the correct extract criteria has been selected click on the “Get Data” button.

A pop up window similar the one shown below should appear.

If the table does not appear check whether there is a pop-up blocker active within your web browser. It is possible to change the options to allow pop-ups from selected sites. If you are unsure how to do this contact your IT support.

fldUniqueID	Notify	Sex	fldAge	fldDateOnset	fldLocalAuthority	fldHPU	ClassConfirmed
0771769Z	Notified	M	52	11/01/1998	Vale Royal	Cheshire & Merseyside	Unknown
0772754Z	Notified	M	53	01/01/1900	Vale Royal	Cheshire & Merseyside	Unknown
0773905Z	Notified	F	36	03/01/1999	Vale Royal	Cheshire & Merseyside	Culture Positive
0774638Z	Notified	F	81	03/01/1999	Vale Royal	Cheshire & Merseyside	Unknown
077637Z	Notified	M	88	01/08/1999	Vale Royal	Cheshire & Merseyside	Unknown

1

**Exporting to Excel**

If you are satisfied that you have selected the correct data, click on the “Export to Excel” button. An excel sheet containing the data will now appear in a new web browser window. To save the data to a local drive simply click on the “File” menu item. Select the “Save As” menu option. The Save As dialog box will appear and you can save the excel sheet to the location of your choice.

**Exporting to CSV**

CSV (comma separated values) is a text file. This is the fastest way to export the extracted data and is recommended for large data extracts.

If you are satisfied that you have selected the correct data, click on the “Export to CSV” button. A text file will now appear in a new web browser window containing the data. To save the data to a local drive simply click on the “File” menu item. Select the “Save As” menu option. The Save As dialog box will appear and you can save the excel sheet to the location of your choice.

**Back to Main**

By clicking on this button you will be returned to the index page.