HIV/AIDS Surveillance Data Base

User’s Guide
New Features

- **Source Search Tab:**
  - In the new version, the “Source Searches” tab has changed to “Sources” tab, which indicates the new format for the source search criteria. (Chapter 4 for detail)

- **All views:**
  - In the new version, the Download, Print, and Help icons have been moved to the top left, while the “Submit Feedback” remains in the top right.

- **Map change**
  - Western Sahara is now part of Morocco.
The December 2021 Data Base Update represents the latest major update to the HIV/AIDS Surveillance Data Base compiled and maintained by the International Programs, Population Division, U.S. Census Bureau. The current update incorporates additional epidemiological information for developing countries presented at the following conferences:

- 19th International Conference on AIDS and STIs in Africa, Abidjan, Cote d'Ivoire;
- 20th International Conference on AIDS and STIs in Africa, Kigali, Rwanda;
- 23rd International AIDS Conference, 2020 AIDS Virtual;
- 2020 COVID-19 International AIDS Society Virtual Conference;
- 2021 COVID-19 International AIDS Society Virtual Conference;
- 2021 Conference on Retroviruses and Opportunistic Infections, Virtual;
- 11th International AIDS Society on HIV Science, 2021 Virtual;
- and other reports and literatures.

The HIV/AIDS Surveillance Data Base includes information from incidence studies. Incidence studies are difficult and expensive to conduct, so there are not many of them. Thus, there may not be any studies conducted in the specific country in which you are interested.

For all users experiencing difficulty in using the Data Base, please contact the Health Studies Branch, International Program Center, Population Division, for assistance email: pop.international@census.gov

We welcome comments and suggestions from users of the Data Base. Also, we welcome copies of articles or references to information that may have been overlooked.

Special Note: After 35 years of service, Health Studies Branch, International Program Center, Population Division, International Program Center, Health Studies Branch will be retiring the HIV/AIDS Surveillance Data Base in 2023.
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HIV/AIDS Surveillance Data Base

Population Division
U.S. Census Bureau

Developed with support from the U.S. President’s Emergency Plan For AIDS Relief.

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For technical assistance contact:

Health Studies Branch
Telephone: 1-301-763-1433
E-mail: pop.international@census.gov
HIV/AIDS Surveillance Data Base Overview

Concept

The concept of the HIV/AIDS Surveillance Data Base was developed at the Center for International Research, (now the International Programs) U.S. Bureau of the Census, in 1987 based on an assessment of the situation with regard to publication and dissemination of the results of the multitude of seroprevalence surveys that were being undertaken. Several facts were clear at that time:

- The data being collected typically were not based on general population samples.
- The samples were not typically geographically representative.
- Relatively little in the way of comparative or trend analysis was conducted.
- Much of the information from HIV seroprevalence surveys was not available in published form. A large quantity of data was being presented at regional and international conferences in oral sessions or in poster form. Much of this information did not appear in the scientific literature.

The above facts argued for the establishment of a database that would compile in a single location the summary results from all available surveys being conducted in developing countries. This database would allow several activities to be accomplished. First, by making all data available in a single location, users are presented with the entire range of information for the area of interest. Since the data are not generally representative, a single study or number from a study will not adequately portray the situation. Frequently, results from studies of various population groups or disparate geographic areas must be combined to form a composite whole. Secondly, by making previously unattainable information accessible to a wider audience, information that would otherwise be lost can be preserved and can be used in the analysis of data and in the design and decision process for funding intervention projects.

Since its inception, the HIV/AIDS Surveillance Data Base has been a valuable tool for the many government agencies involved in HIV/AIDS work. The database is used for gathering information for the U.S. President’s Emergency Plan For AIDS Relief (PEPFAR).

Products that have been produced at the Census Bureau from the database include numerous reviews and presentations of current HIV infection levels among various population groups in selected developing countries. Additionally, information on HIV seroprevalence was published in a chapter in AIDS in the World (Mann, Tarantola, and Netters, eds., 1992)\(^1\) and in another chapter in AIDS in the World II (Mann and Tarantola, eds., 1996).\(^2\)

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Funding support was obtained from USAID in mid-1987 for the development of an initial database and the supporting software providing users access to the data. In addition, support from the Joint United Nations Programme on HIV/AIDS (UNAIDS) was obtained in mid-1996. Funding from USAID, under the President's Emergency Plan for AIDS Relief (PEPFAR), has continued to the present time.

**Purpose and Use**

The primary purpose of the *HIV/AIDS Surveillance Data Base* is to collect and disseminate information on HIV prevalence and incidence rates from available studies from developing countries. So, users would have at their fingertips the full range of data, including both official sentinel surveillance data and data available from other studies.

The information within the *HIV/AIDS Surveillance Data Base* is then used to:

- Provide program managers, researchers, policy makers, donor agencies, and the international assistance community within country with the most complete, up to date information on the status and trends of HIV seroprevalence in these countries
- Produce and disseminate reports on the status and trends of these HIV/AIDS epidemics,
- Assist in the development of improved tools and models to determine HIV/AIDS/STI levels, trends, and program impacts, and
- Estimate AIDS mortality levels and incorporate them into the population projections for the countries most seriously affected by HIV/AIDS.

**Methodology**

One of the unique characteristics of the database involves the data collection method. Staff from the International Programs attend International AIDS Conferences and selected regional conferences to obtain the most up-to-date information. Early in the data collection process, it became clear that scientific meetings and conferences represented a valuable source of information for HIV seroprevalence data. Initial attempts to collect information by handwritten notes proved frustrating, and the sheer volume of information argued for another approach. Consequently, we began to record information from both poster sessions and from slides presented in oral presentations using a 35mm camera and black and white film, now updated to digital cameras. This method has proven to be quite reliable and allows for the collection of large volumes of data. The Census Bureau has estimated that 80 percent of the data presented at conferences is never published in scientific journal articles. Furthermore, the small proportion that is published is generally delayed by one or more years.

We also regularly review the medical and scientific journals, professional papers, official statistics, newspapers, magazines, materials from the World Health Organization, and the Internet for relevant information. These photos, abstracts, and articles are coded and added to the previous database. The *HIV/AIDS Surveillance Data Base* is updated at least annually, incorporating all available epidemiological information for developing countries. It is our goal to incorporate all available data from seroprevalence studies conducted in developing countries.
The **HIV/AIDS Surveillance Data Base** also includes information from incidence studies. Incidence studies are difficult and expensive to conduct, so there are not that many of them. What results have been found are included in the database. At present, the database covers the compilation of information for countries and areas of the world with at least 5,000 population, with the exception of Northern America (including the United States) and U.S. territories.

### Data Quality and Qualifications

With rare exception, surveys of HIV seroprevalence are not based on national samples. Therefore, every seroprevalence estimate has a bias if generalized beyond its sample population. The amount of bias is determined by how different the sampled population group or geographic area is from the generalized description placed on the estimate. For instance, an estimate of the HIV seroprevalence of pregnant women in Kinshasa, the Democratic Republic of Congo, may be generalized to “urban, low-risk group.” Yet, Kinshasa is not representative of all areas in the Democratic Republic of Congo, and pregnant women are not representative of all low-risk adults (since by definition they may be more sexually active than many low-risk groups, such as the aged).

Several factors contribute to biases or confusion surrounding HIV seroprevalence estimates:

- **Sample-Size Bias**: The sample sizes of seroprevalence studies are very small. Small samples of nonrandom populations may tend to overestimate the seroprevalence.
- **Non-representative Samples**: Many surveys are taken of populations convenient for the medical team drawing blood for testing. Therefore, many are “samples of convenience,” taken in clinics or hospitals where the available sample of people may be more symptomatic than those who do not attend the clinic.
- **Geographic Bias**: As in the case of samples of convenience, samples may also be taken in more-accessible rather than less-accessible geographic areas. Given what is known regarding the spread of HIV infections, we would expect that this would tend to bias upward the estimate of HIV seroprevalence, if the available sources are taken to represent the country as a whole. Note, however, that this particular factor may not bias estimates of seroprevalence in the geographic areas that were, in fact, surveyed.
- **Testing Bias**: In the first several years of the HIV epidemic, the Thalassa test was the predominant test used to determine seropositivity. The ELISA test, however, gives a number of false positives and, therefore, the test results must be confirmed by a second test, generally the Western Blot. Current practices now include two ELISA and/or RAPID tests using alternative methodologies or various combinations of different antibody assays and ELISA. However, not all studies report confirmatory testing, although they increasingly do so.
- **HIV-1 and HIV-2 Overlap**: In countries where both HIV-1 and HIV-2 are present, tests are done for both viruses and often find people who test positive for both. To report the people, who are only infected with HIV-1, will understate the total infected population because it does not take into account the joint infections. Thus, care must be used in discussions of data from these areas to avoid either double counting or omitting various categories of infected population.
Since the *HIV/AIDS Surveillance Data Base* is a compilation of available seroprevalence information, there are multiple opportunities for analysis of trends over time in a particular population group and area or comparative analysis of similar sampled population groups in different countries or regions.

**Countries Covered**

The *HIV/AIDS Surveillance Data Base* contains information for all countries and areas of the world with at least 5,000 population, with the exception of Northern America (including the United States) and U.S. territories.

**Data Base Sources**

The Health Studies Branch (HSB) compiles data for the *HIV/AIDS Surveillance Data Base*. Data included in the *HIV/AIDS Surveillance Data Base* are drawn from medical and scientific journals, professional papers, official statistics, State Department cables, newspapers, magazines, materials from the World Health Organization, conference abstracts, and the Internet. Sources are scanned and reviewed for data. The sources from which the data are accumulated can be categorized as the following:

- Articles requested through the library system,
- Journals subscribed to by HSB from which articles can be copied directly,
- Reports by statistical offices or governments,
- Reports and articles from the Internet, and
- Conference abstracts, posters, and oral presentations from meetings or the Internet.

**Summary**

The *HIV/AIDS Surveillance Data Base* represents a valuable resource that can be used for a variety of purposes. Among the applications of the data are policy awareness efforts, surveillance, program (intervention) planning, research and modeling exercises, global or regional assessments, and analysis of the pandemic. This resource has continued to grow and serve multiple needs of the AIDS community.
Introduction

Introduction to the HIV/AIDS Surveillance Data Base

Information on the AIDS pandemic and the HIV seroprevalence (infection) in population groups in developing countries is mostly available in widely scattered small-scale surveys. The *HIV/AIDS Surveillance Data Base*, developed by the U.S. Census Bureau, is a compilation of information from those studies appearing in the medical and scientific literature, presented at international conferences, and appearing in the press. This application was developed using JavaScript and is web based with a user-friendly interface. Available information for population groups in a selected country based on selected criteria can be easily retrieved and displayed on the computer screen, printed in tabular format, or saved. In addition, the user has the option to download all of the data in a zip file. This will allow users to manipulate the data as they see fit.

General Information

The following comments and defaults apply throughout the program:

- Clicking on an option by using the mouse button toggles a selection on and off when more than two options are available under RECORDS BY TYPE, except for the DATA TYPE selection.
- The Default settings are:
  - Data Type selection - “Prevalence”; and
  - All other selections – “All.”

  This will subset the data and allow the user to see all Prevalence data upon entry without specifying search criteria.
- The labels on the filter buttons reflect the selections made by the user. If no selection is made in a category, “All” will remain in the label.
- Data column widths within the data display area can be adjusted to allow the user to view more information.
- Use filter check boxes to select more than one criterion. To remove selected criteria uncheck the selected criteria.
- The ‘Download a zipped file of the entire database’ link is present no matter which selection button you choose from the toolbar at the bottom left of the application.
- The print and save (CSV or PDF) Icons on the top toolbar of selected data become active after a selection is made in Records by Type or Sources.
Printing

All print jobs are sent to the default printer selected within Windows. The print mode needs to be modified by the user. No default orientation is defined.

Printing Data Limitation Rule:

If either the Print or PDF Icon is clicked and the number of records is greater than 10,000 and will print more than approximately 800 pages, the user has an option to save the records as a CSV or ZIP file.
Chapter 1: Initial Application Screen

Initial Application Screen

The initial application screen (Figure 1) contains the *HIV/AIDS Surveillance Data Base* Toolbar area, the Search area, and the Data Display area. The Search area allows one to select criteria, while the Data Display area shows the selected results. The Search options are different for each section in the application. Details are in each section chapter. The *HIV/AIDS Surveillance Data Base* Toolbar area at the top of the application provides navigation to other areas in the application and the tools that are available to the user.
Components on the Toolbar Area

Components on the toolbar area (Figure 2) consist of three elements.

1. Tab Options (Map, Records by Type, Source Searches)
2. Title Bar with Icons
3. General Icons, (downloads, print, help)

**Tab Options**

**Map**
Produce a map for total number of records within the country selected. See Chapter 2 for details.

**Records by Type**
Produce a table report for user specified countries and selection criteria. See Chapter 3 for details.

**Sources**
Produce a report for a specific source. See Chapter 4 for details.

**Title Bar w/ Icons**

**Hide/Show Sidebar**
This Icon will collapse and expand the Search area menu. See Chapters for details.

**Title**
Provides the information title of a report in the data display area for user specified countries and selection criteria.

**Feedback**
This Icon will allow the user to provide feedback on both the application and the data by sending an email to one of two addresses. See Chapter 2
General Icons: 

**Download**
Users can download the data in the table as a comma-separated values (CSV) file or as a PDF. See each Chapter for details.

**Print**
This Icon allows the user to print the selected records as a .pdf file. If the number of records is greater than 10,000 and will print more than approximately 800 pages, the user will be forced to save the file as a CSV or ZIP file.

**Help**
This Icon will give the user basic help and some general terms as well as a link to the User’s Guide.
Chapter 2: Map

Background/Context

The MAP option (Figure 3) is the tool default view upon opening the **HIV/AIDS Surveillance Data Base** tool, which displays thematic maps to provide a visual overview of the database metadata. There are eight elements that are described in this chapter. There are five on Map Search Area and three on the Map Data Display Area, which will be described throughout this chapter.

Maps can be used as a COUNTRIES data filter tool as well, allowing for interactivity between the web maps and data-grid databases. The Map option defaults to a global view displaying the Prevalence Data Type thematic maps.

![Figure 3](image)

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**Supported by the President's Emergency Plan for AIDS Relief (PEPFAR) through an Interagency Agreement with USAID under the terms of Award number USAID-GH-T-16-00031.**
Interactive Map Controls: Search Area Tools

The map search area is an interactive map that allows the user control over the extent and scale of the data displayed. (Figure 4)

MAPS

The map shows the total number of records in the database with the selected data type. Click a country to see a pop-up with the number.

Countries symbolized with white background and diagonal hatching are those that do not exist in this database. For more information, visit the database Overview page.

Data Type:
- Prevalence
- Incidence
- AIDS Cases Reported

Filter By:
- Countries: —All—
- Reset

1. Hide/Show sidebar
2. Map-specific Notes
3. Select One
4. Use Countries Filter to Select
5. Return Map to Default Settings

Figure 4

The intended use of these tools are to allow a user to specify a subset of data for rendering in the map display area.
1. Hide/Show sidebar Icon

The Hide/Show sidebar Icon (Figure 5) allows a user to toggle back and forth the visibility of the data filtering tools. When the menu is hidden, the display area increases to the full screen width. (Figure 6)
2. Notes Box

The Notes Box (Figure 7) provides a description of the map thematic layers and map pop-up functionality. It also provides a description of the countries symbolized with hatching.

Figure 7
3. Data Type Selection

The Data Type Selection allows a user to select one of the following data types: Prevalence – the first selection (Figure 8), Incidence – the second selection (Figure 9), or AIDS Cases Reported – the third selection (Figure 10). The map displays the selected thematic maps which have unique color schemes. Additionally, class breaks and legends are updated.

The default is PREVALENCE.

Figure 8
Figure 9

Figure 10
4. Filter By: Countries

The Filter By selection (Figure 11) acts as a filter, allowing users to select any single country, or multiple countries. When the countries filter is selected, a pop-up window opens prompting the user to select any country(ies). Once the desired filtering options are selected, the OK button is used to update the data rendered in the map display area. (Figure 12)

The default is All. If no selection is made, all available countries will be displayed at the default global view.

![Figure 11](image1)

![Figure 12](image2)
5. Reset Button

The Reset Button sets all selected criteria (Figure 13) back to the defaults (Figure 14), which are:

- **Data Type**: Prevalence
- **Countries**: All
- **Extent**: Default global view
Interactive Map Controls: Map Data Display Area

The Map Data Display Area contains three Icons (Figure 15). Once the data are rendered, a user will typically use the pan and zoom tools to explore the map.

6. **Zoom-In/Out Icons** – The Zoom-In/Out Icons cause the current display scale to increase/decrease by a single increment on the center of the current map display extent.
   a. **Zoom-In**
      When clicked, the Zoom-In button causes the current display scale to increase by a single increment on the center of the current map display extent.
   
   b. **Zoom-Out**
      When clicked, the Zoom-Out button causes the current display scale to decrease by a single increment on the center of the current map display extent.

7. **Navigate Home Icon** – The Navigate Home Icon zooms the map display to the default extent of the global view maintaining any selected countries. Therefore, it restores the full view of the map. If the current map display scale and the extent is already at the default global view, then there is no perceptible system response.
8. **Legend Icon** – displays the map legend in the bottom left corner of the map display area. (Figure 16) The legend Icon displays classes and categories, and is updated per data filter selection.

When clicked, the tool response is to display the appropriate map legend box for each Data Type. (Figures 17) The legend box displays classes and categories, and is updated per data filter selection.

![Figure 16](image1)

![Figure 17](image2)
Interactive Map Controls: Map Layer Attributes

When clicking a country, a pop-up (info-window) displays with the country name, country code, and the record counts for the selected data type (Figure 18). The selected country polygon is outlined with a turquoise boundary. The appropriate information is displayed for each Data Type. This does not place the country within the Filter By box of the Search Area.

![Figure 18](image1.png)

However, users can also use the map to select country(ies). Selections made on the map carry over to other views, so you can easily focus on a specific local area. A single country can be selected by double-clicking the country, which zooms in and outlines the selected country in red, and places the country name within the Search Area - Filter By box (Figure 19).

![Figure 19](image2.png)
Multiple countries may be selected by **holding the Shift key** while double-clicking another country to add to an existing selection. Remember double clicking on a country will automatically zoom into the area. However, the user may have to click on the Navigate Home Icon to continue to select countries, which will take one to the global view with the current selections. Selected country(ies) will have a red border (Figure 20). The Search Area - Filter By box will automatically update with this selection.

![Map of countries with selected countries highlighted]

**Figure 20**

To deselect multiple countries, click on the Filter by selection on the left panel and uncheck selected countries. To clear all countries at once, click on the reset button.
Interactive Map Controls: Download and Printing

The Download Icon displays "JPEG" and "PDF" options. After clicking either option a new tab opens in the browser containing the map image.

The Print button opens a new tab as a browser PDF viewer, from where the map PDF can be printed or saved.
Chapter 3: Records by Type

Custom Reports

The RECORDS BY TYPE option (Figure 22) allows the user to filter data for viewing or printing. The *HIV/AIDS Surveillance Data Base* contains information for each country on a wide range of population subgroups. The default is to show all records for all COUNTRIES for the Data Type Prevalence. Data may be filtered by either going through the filter control and specifying characteristics for the data to meet, or clicking on the Source Searches option to search by source information (see Chapter 4).

![Figure 22](image-url)
Data Type Selection

This option (Figure 23) allows the choice of looking at HIV prevalence, HIV incidence, or AIDS cases. The default is PREVALENCE. The AIDS CASES REPORTED option includes mostly AIDS cases reported by the World Health Organization (WHO). Only one selection may be used. General term definitions are found in Appendix A.
Country Selection

The COUNTRIES option (Figure 24) is used to specify countries. The default is All. The scroll bar may be used to move around in the table of countries. In addition, typing the first letter of a country’s name after clicking on the drop down arrow in the box under country will cause the list to scroll to the appropriate area of the table. Click on the desired country to select it. More than one country may be selected at a time by selecting the check boxes next to the countries. The list of countries selected will appear on the button control label. Hovering over the list will display all countries selected. Click on Clear link below the list to de-select all previous country selections.

Figure 24
Geographic Coverage Selection

This option (Figure 25) allows different geographic criteria to be selected. The default is All. To select specific geographic criteria, click on the button control that says Geographic Area. More than one criterion can be selected. (Note: If ALL OTHER URBAN DATA is selected, CAPITAL CITY DATA will not be automatically included.) The option of ADMINISTRATIVE AREAS includes areas such as districts, states, and provinces.

Figure 25
Reference Date Selection

This option (Figure 26) allows specific years or all available years to be chosen. The default is All. If no selection is made, all available years will be used. The list allows for multiple selections. Any value selected will be searched, whether as a part of a range or as a specific value. Click on Clear link below the list to de-select all previous selected years.

A reference date with a (?) indicates that the data source did not provide a date for data collection. The year provided is the source year of publication.

Figure 26
Population Subgroup Selection

This option (Figure 27) allows one or more subgroups to be selected. The default is All. More than one selection may be made.

The option of TWO KNOWN MIXED GROUPS includes those who fall into two different subpopulations but are reported as one. An example is pregnant women and STD clinic patients who are reported as one group. The option of OTHER NON-REPRESENTATIVE includes those such as high-risk individuals and clients of sex workers, who do not fall into any of the other subpopulations.

The option CHILDREN includes all children except for those who are TB patients or transfusion recipients. HOMOSEXUALS include people with known homosexual contacts. IV DRUG/NEEDLE USERS include drug users. MILITARY/ARMED FORCES include police forces. SEX WORKERS include sex workers of either sex and other highly sexually active women such as bar workers. TRANSFUSION RECIPIENTS include recipients of blood and hemophiliacs. Further information on the sub-populations is found in Appendix A.
Sex Selection

The SEX option (Figure 28) includes the selection of male samples, female samples, or both sexes samples. Once the criteria have been selected, the user can view the data by clicking on the OK button. The default for this option is All.
Age Selection

The AGE option (Figure 29) allows the data to be broken down by age or the totals with no age breakdown. Once the criteria have been selected, to view the data click on the OK button. The default option is All, which means all available age data are shown. The “Sample Totals Only – All” displays the totals without any age breakdown; while Age Detail Only shows the available age detail.

Age is not always available for some populations and for some countries.
Data Quality Selection

The DATA QUALITY option (Figure 30) allows selection of different qualities of data or the selection of all available data. Once the criteria have been selected, click on the OK button to view the data.

The default is All, which means all available data of all qualities will be displayed.

Categories of data quality:

- Data meeting high scientific standards with full description of methodology, sample selection, etc., (e.g., peer-reviewed journals or books).
- Apparently good data, with some information incomplete or unknown (e.g., WHO statistics, poster sessions, abstracts, draft manuscripts, self-published books, and sentinel surveillance reports).
- Data of unknown quality, often with missing details of methodology, sample selections, etc. (e.g., newspapers articles, unpublished non-government reports).

Figure 30
Sorting

After viewing the data, the user can sort the data only on one field at a time. For illustration purpose sorting is being done on the “Reference Date” field.

Figure 31 illustrates the original view.
Figure 32 illustrates the ascending view.
Figure 33 illustrates the descending view.

To sort, click on the desired field label and the data will automatically sort in the ascending order (Figure 32). In order to change or reverse the date order, click on the down arrow next to the field label resulting in the descending order (Figure 33). Click on the arrow once again, returns the data back to the original order (Figure 31).
Reset Button

The Reset button will refresh all of the filters and return to the default selections. (Figure 34). The reset button should be used between different searches.
Hide/Show Sidebar Icon

This Icon is located at the top left of the Toolbar area. (Figure 35) The Left Arrows (Figure 36) allows the user to expand the data display area to fit the whole screen as seen in Figure 37. The Right Arrows (Figure 35) will allow the user to return to the original view and change selection criteria in order to search again as shown in Figure 36.

Figure 35

Figure 36

Figure 37
Download and Printing

Users can download the data in the table as a comma-separated values (CSV) file, or as a PDF. The entire table can be printed by using the utility buttons on the top left of the page. (Figure 38)

![Figure 38](image)

For printing or PDF download, the table will first open in a new window that displays the PDF document. Depending on one’s browser and the version of Adobe Reader installed, the user will see controls for printing or saving that document. The document is divided up by country, with one section for all the data records for that country (given user’s current filter) and another section for the corresponding sources.

If the user’s filter selects more than 10,000 rows, one will not be able to print or create a PDF. The user can see the total number of rows in the lower right corner of the table. However, the data can still be downloaded as a CSV file, regardless of the total number of rows.

Alternatively, users can download the entire database in compressed form (ZIP); the link is located at the bottom of the left panel. (Figure 39)

![Figure 39](image)
Chapter 4: Sources

Sources Option

The Sources option (Figure 40) allows the user to filter one or more of the tabs above the test boxes. The user can filter sources by using several attributes. The user can locate all information available from a particular source, author, etc.

When the Sources option tab is clicked, every source used in the HIV/AIDS Surveillance Data Base is displayed by default. Use the filters above the columns to narrow down the results. User can use multiple filters at once, and the reset button to erase all filters.

Figure 40

The attribute names above the text box columns are: (Figure 41)

Author, Title & Publication Information – letters or numbers
Source ID – one letter and/or up to four numbers only
Year – the 4-digit publication year (numbers only)
Users can fine tune each filter by selecting the funnel next to the text box.

![Filter Funnel](image)

**Figure 42**

Each filter can be applied with the using one of the following phrases: (Figure 43):

- Contains: filtered column contains all characters entered
- Not contains: filtered column excludes all characters entered
- Equals: filtered column includes all numerical values entered exactly
- Not equal: filtered column excludes all numerical values entered
- Starts with: filtered column starts with all characters entered
- Ends with: filtered column ends with all characters entered

![Filter Options](image)

**Figure 43**
Only the year column & publication have an additional filter by “AND” and/or “OR” button which allows for multiple searchers under the same filtered column (Figure 44 & 45).

![Figure 44](image)

![Figure 45](image)

After filtered search criteria are selected, click “enter”. This will populate the grid on the right hand side of the screen with all sources that met the filtered column criteria. (Figure 46)

For each source that met the search criteria, there will be a link with “source ID number.” A source ID number is a unique number assigned to every source in the database. To display the data from a source, click on the relevant source ID number.
The following screen appears after clicking the source ID number (Figure 46). There are three Icons located on this screen. The user can download, print or close the information that appears on the screen.

Click Download Icon to open or save as CSV.
Click Print Icon to open a PDF form that can be printed or saved.
Click Close Icon to return or clear the selected screen.

To reset all column filters, use the “reset” button on the left side bar. (Figure 47)
Download and Printing

Users can download the data in the table as a comma-separated values (CSV) file, or as a PDF. The entire table can be printed by using the utility buttons on the top left of the page. (Figure 48) Alternatively, users can download the entire database in compressed form (ZIP); the link is located at the bottom of the left panel.

For printing or PDF download, the table will first open in a new window that displays the PDF document. Depending on the browser and the version of Adobe Reader installed, one will see controls for printing or saving that document.

If the user’s filter selects more than 10,000 rows, one will not be able to print or create a PDF. The total number of rows are located in the lower right corner of the table. Users can still download the data as a CSV file, regardless of the total number of rows.
Appendix A: General Terms

Geographic Coverage (Geo. Area) Standard

National data
Capital city
Other urban areas
Rural areas
Other (e.g., mixed non-national)
Administrative areas: Provinces, states, regions, districts, territories, parishes, departments, prefectures

Subpopulation Standard (Subpop)

Blood donors
Children, pediatric patients
Truck drivers and their assistants
Pregnant women
MSM/Homosexuals/persons with known homosexual contacts
IV drug users/needle sharers and drug users
Prisoners
Other patients
Military/Armed and police forces
Normally-healthy adults
Other nonrepresentative groups (e.g., transgender individuals, testing center attendees, contacts of HIV+ individuals, etc.)
Sex Workers and other highly sexually mobile individuals
Sexually-transmitted infection (STI) patients
Transfusion recipients/hemophiliacs
TB patients
Two known mixed groups with only one sample size

Sex Code

B Both sexes
F Females
M Males
Date Type

- HIV: Human Immunodeficiency Virus (HIV)
  -- non-specified probably HIV1
- HIV1: HIV1 (or HTLV III) - - so specified
- HIV2: HIV2 (or HTLV IV) - - so specified
- HIV1&2: CO-infection of HIV1 and HIV2
- HIV1,2: Overall combined of HIV1 and HIV2
- AIDS: Acquired Immune Deficiency Syndrome

Specimen Type

The specimen type refers to what fluid was collected and how it was collected from the donor.

- BW: Whole blood
- BS: Blood spots
- B: Blood (unspecified)
- O: Oral/Saliva
- U: Urine

Test Type

- ELISA: Enzyme-linked immunosorbent assay or EIA
- ELISA*2, 3, ...: More than one ELISA test
- IFA: Indirect immunofluorescent assay or IF
- LIA: Line immunoassay
- PCR: Polymerase chain reaction
- RAPID: Rapid and simple assay
- RAPID *2, 3, ...: More than one Rapid assay
- RIA: Radioimmuno assay
- RIPA: Radioimmunoprecipitation assay
- UNK: Unknown
- WB: Western blot assay or IB

The test types are based on an article from AIDS Volume 7, Number 1, January 1993 by Neil T. Constantine.

Data Quality

Data meeting high scientific standards. Results of peer-reviewed journals, etc. Full description of methodology, sample selection, etc., generally available.

Apparentlly good data, with some information incomplete or unknown (e.g., WHO statistics, conference poster sessions, abstracts, draft manuscripts and sentinel surveillance reports, etc.)

Data of unknown quality, often with missing details of methodology, sample selection, etc. (e.g., newspaper articles, non-peer reviewed reports or articles, etc.)
**Comments**

Common acronyms used in the “Comments for selected record” section

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<tr>
<th>Acronym</th>
<th>Description</th>
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<td>AIS</td>
<td>AIDS Indicator Survey</td>
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<td>ART</td>
<td>Antiretroviral therapy</td>
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<td>AZT/ZDV</td>
<td>Zidovudine</td>
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<td>BBS</td>
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<td>BED-capture enzyme immunoassay</td>
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<td>Pre-exposure prophylaxis</td>
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<td>RDS</td>
<td>Respondent-driven sampling</td>
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<td>SS</td>
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<td>Serologic Testing Algorithm for Recent HIV Seroconversion</td>
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<td>Sexually transmitted infections</td>
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<td>TDF</td>
<td>Tenofovir disoproxil fumarate</td>
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<td>VCT</td>
<td>Voluntary counseling and testing</td>
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<td>VMMC</td>
<td>Voluntary male medical circumcision</td>
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## Appendix B: Alphabetic – Data Base Country Codes

Country codes have been updated to the Geopolitical, Entities, Names, and Codes (GENC) standard. Only Countries currently included in the *HIV/AIDS Surveillance Data Base* are listed.

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Country Codes – Cont’d