

How to Run Resident COVID-19 Vaccination Data Reports for Long-Term Care Facilities for June 2023 and Forward

Introduction

Line listings for COVID-19 vaccination summary data can be produced in NHSN for healthcare personnel, long-term care (LTC) residents, and dialysis patients. The line listing is an organized, detailed list of each record entered into NHSN, available to both facilities and groups. The purpose of this resource is to provide step-by-step instructions for using the “**All COVID-19 Vaccination Cumulative Summary Data**” line listing report to view weekly rates of COVID-19 vaccination.

*Note: Information on primary vaccination series is no longer collected for residents beginning with Quarter 3, 2023 (June 26, 2023- September 24, 2023). As such, for guidance on how to review data from June 26, 2023, onward, please use this document. If you are interested in only reviewing data from before June 26, 2023, please see this document:

[How to Run COVID-19 Vaccination Reports for Long-Term Care Facilities Prior to June 2023](#)

After the January 2024 release, the primary series questions were removed from the healthcare worker form. As such, if you would like to view healthcare data prior to January 1, 2024, please use this document. If you are interested in viewing healthcare worker data from January 1, 2024 or later, please see the following document:

[How to Run Healthcare Personnel COVID-19 Vaccination Data Reports for Long-Term Care Facilities: January 2024 and Forward.](#)

Example

Say you would like to determine the number of residents who are up to date with COVID-19 vaccines beginning with the week of June 26, 2023 and onward.

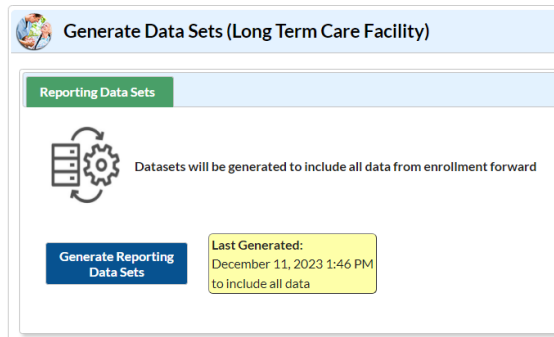
To view this information, you can modify a line listing report to include the variables of interest. The steps below show how to do this.

Generating Data Sets

Generating datasets is the first step to performing analysis in NHSN. This process will freeze your NHSN data at the current date and time by copying those data into defined datasets. When you wish to view updates to the data contained in your NHSN reports or to include data entered since the datasets were last generated, you must regenerate datasets for those updates to be reflected. Datasets are user-specific; therefore, each user in NHSN who wishes to analyze data must generate datasets.

To generate datasets in NHSN, navigate to Analysis > Generate Data Sets. Then, on the Reporting Data Sets tab, click “Generate Reporting Data Sets”. A pop-up alert will appear, asking the user if it is ok for datasets previously generated to be overwritten.





Creating the Line Listing

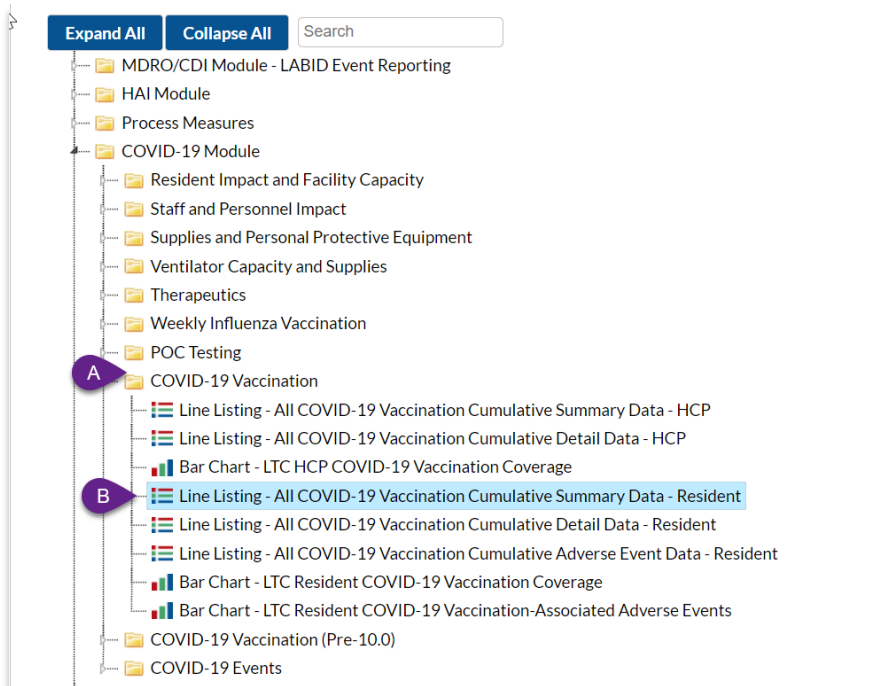
Once you have generated your datasets, you are ready to produce a line listing report.

1. On the “Analysis Reports” screen, click on the “COVID-19 Module” folder.
2. Select the “COVID-19 Vaccination” subfolder (indicated by an “A” in the screenshot below). Since this guide discusses resident, not healthcare personnel data, the folder “COVID-19 Vaccination” is selected in the example below, regardless of the time period included in the output*.

**Note that the folder “COVID-19 Vaccination” includes default output variables for reporting weeks after the surveillance week of 9/27/2021-10/3/2021 for healthcare personnel data while the folder “COVID-19 Vaccination (Pre-10.0)” includes default output variables for weeks prior to the surveillance week of 9/27/2021-10/3/2021 for healthcare personnel data. This is because many variable names changed for healthcare personnel data following an NHSN application update on September 27, 2021.*

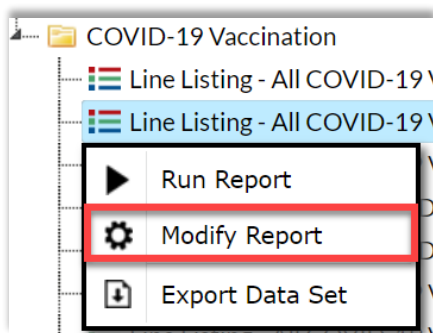
3. Click on the report that you would like to run. In our example, “Line Listing – All COVID-19 Vaccination Cumulative Summary Data – Resident” (indicated by a “B” in the screenshot below).





Modifying the Report

Using the “Modify Report” option allows you to customize your report. You can add a title to the output, select a time period, add filters, select additional variables, or remove variables from the default list, choose how to sort variables, and select display options. Below are modifications for this example.



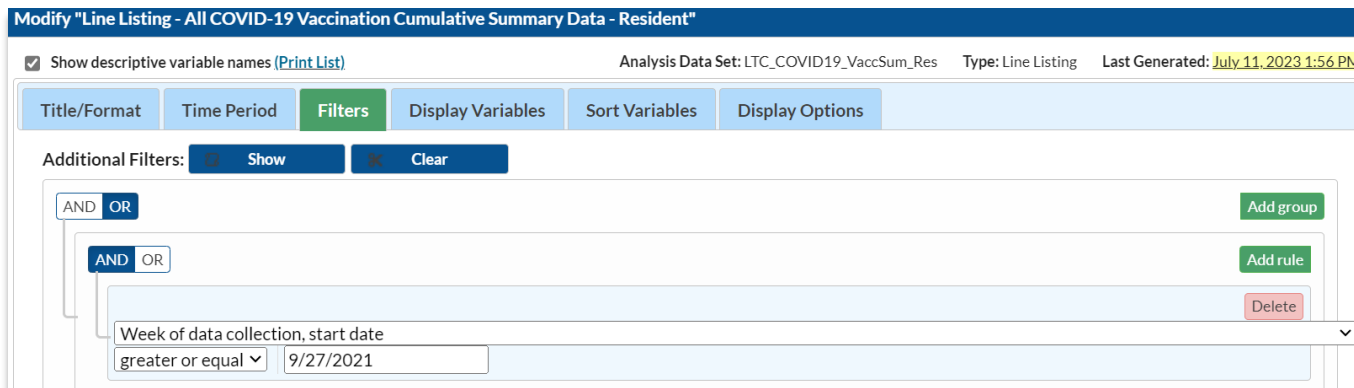
Time Period

To filter the data by time period, choose the “Time Period” tab at the top of the page. For our example, we will not need to modify the time period. If you do not select a time period, your report will include all data from your previously generated dataset.



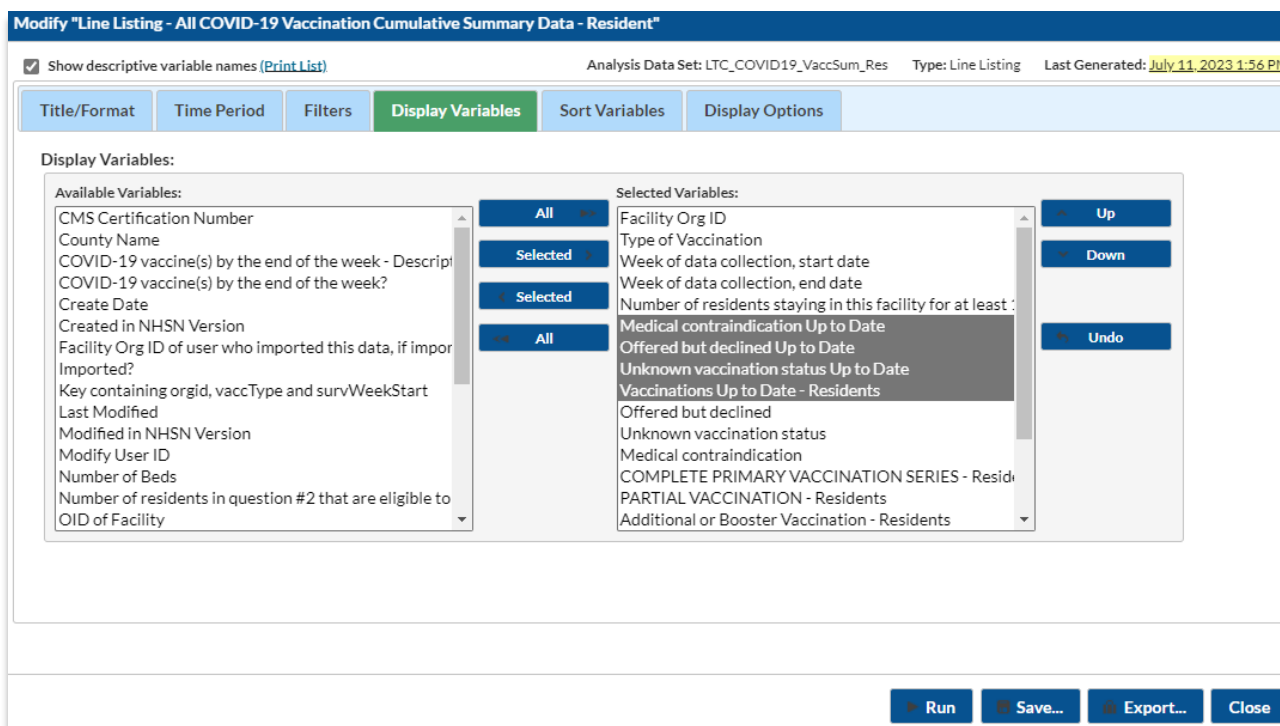
Filters

The “Filters” tab allows you to further filter the data that display in the report. The default filter will restrict output data from 9/27/2021 and onward. You can remove this filter to create reports that include data entered before 9/27/2021 by simply clicking “Delete.” For our example, we do not need to filter the data.



Display and Sort Variables

The “Display Variables” and “Sort Variables” tabs are specific to line listing reports and allow you to display and sort specific variables in your report. Both tabs allow you to move variables from the available list in the left column to the selected list in the right column by using the directional arrows in the center. You can also re-order the selected variables using the “Up” and “Down” buttons, found to the right of the selected variables list. For our example, the variables we want to see are already in the selected variables column. The variables were moved up from their initial position so that they were grouped together for ease of viewing in the report.



Recommendation for Group-level Users: If you are analyzing data as a NHSN Group User, it is recommended to also select a “Page By” orgID – this will result in one table per NHSN facility. To select a “Page By” variable, select the “Display Options” tab on the modification screen, and select “orgID” as the Page by variable.

Final Report

After modifying the report, you are now ready to see the output. Select “run” to see an HTML output, as shown below. The key columns with the variables of interest are within the red box.

National Healthcare Safety Network
Line Listing - All COVID-19 Vaccination Cumulative Summary Data - Resident
 As of: July 17, 2023 at 1:07 PM
 Date Range: LTC_COVID19_VACCSUM_RE5 survWeekStart After and Including 06/05/2023
 If (((survWeekStart >= input('06/27/2021',mmdyyy10,)))

Facility Org ID=

Facility Org ID	Type of Vaccination	Week of data collection, start date	Week of data collection, end date	Number of residents staying in this facility for at least 1 day during the week of data collection	Medical contraindication Up to Date	Offered but declined Up to Date	Unknown vaccination status Up to Date	COMPLETE PRIMARY VACCINATION SERIES - Residents	PARTIAL VACCINATION - Residents	Medical contraindication	Offered but declined	Unknown vaccination status	Additional or Booster Vaccination - Residents	Only One Booster - Residents	Two or More Boosters - Residents	Vaccinations Up to Date - Residents
39455	COVID19	06/05/2023	06/11/2023	100	-	-	-	70	10	10	10	0	50	20	30	60
39455	COVID19	06/12/2023	06/18/2023	100	-	-	-	70	10	10	10	0	50	20	30	60
39455	COVID19	06/19/2023	06/25/2023	100	-	-	-	70	10	20	0	0	50	20	30	60
39455	COVID19	06/26/2023	07/02/2023	110	0	10	0									100
39455	COVID19	07/03/2023	07/09/2023	110	10	10	10									80
39455	COVID19	07/10/2023	07/16/2023	110	10	20	0									80
39455	COVID19	07/17/2023	07/23/2023	110	10	20	0									80

Sorted by orgID survWeekStart
 Data contained in this report were last generated on July 17, 2023 at 1:05 PM to include all data.

Keep in mind, beginning June 26, 2023, questions on partial primary series vaccination and additional and booster doses were removed from the NHSN application. This means the cells highlighted in green will appear as missing (“.”) for weeks beginning with June 26, 2023.

If we look at the time period beginning with the week of 06/05/2023 and 06/11/2023, we can see the changes in variables over time. We can see that at the beginning of the time period, there were only 100 residents staying at the facility for at least 1 day and that 70 had a complete vaccination series, 50 had received an additional or booster, 20 received only one booster, 30 had received two or more boosters, and 60 residents were considered up to date with their vaccination status. Contraindications, declinations, or unknown status for up to date vaccination were not collected until June of 2023. This accounts for why these fields have a dash in the time period.

Looking at the end of the report time period, 7/17/2023 and 7/23/2023, after the change in questions on the data collection forms, there were 110 residents staying at the facility for at least 1 day. Eighty (80) were up to date with COVID-19 vaccination, 10 had medical contraindications to the up-to-date vaccine, and 20 were offered but declined the up-to-date vaccine. Please note the dashes in the fields highlighted in green are questions no longer included on the data collection form after June 26, 2023.

Note: The data in this example output are fictitious and intended for illustrative purposes only.





**Centers for Disease Control
and Prevention**
National Center for Emerging and
Zoonotic Infectious Diseases

