How to Run Respiratory Pathogens and Vaccination Line List Reports for Residents of Long-Term Care Facilities: Beginning September 30, 2024

Introduction

Facilities can review submitted respiratory pathogens and vaccination (RPV) summary data in NHSN for residents of long-term care facilities through line listings (detailed lists of each record entered into NHSN). Line listings are available to both facilities and groups. This guidance document provides step-by-step instructions for using the "**Respiratory Pathogens and Vaccination – Resident Cumulative Summary Data"** line listing report.

If you would like to view healthcare personnel (HCP) COVID-19 vaccination data from January 1, 2024 to September 29, 2024, please see the following document: How to Run Healthcare Personnel COVID-19 Vaccination Data Reports for Long-Term Care Facilities: January 2024 – September 29,2024 (cdc.gov).

If you would like to view HCP COVID-19 vaccination data prior to January 1, 2024 or additional resources pertaining to data analysis, please refer to the following webpage: Respiratory Pathogens and Vaccination Resources | NHSN | CDC.

Example

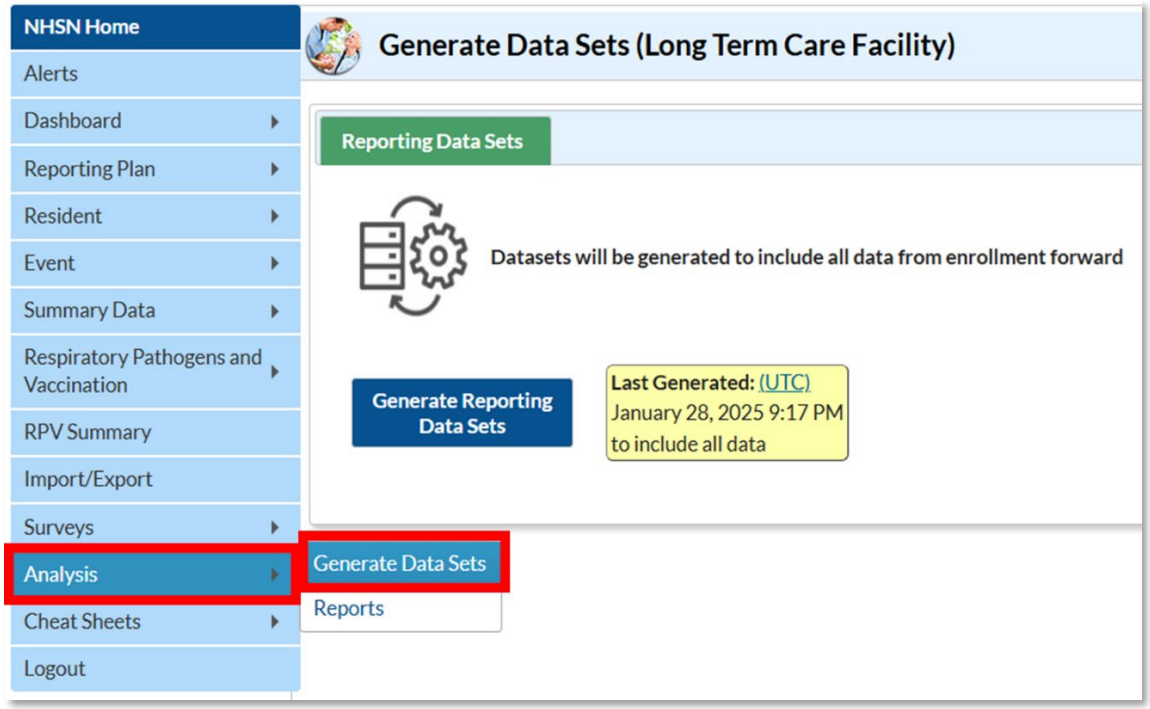
The example below describes a facility that is interested in confirming the **Create Date, Date Last Modified, and Form Completed Date** for their RPV data and outlines how a facility can review COVID-19, influenza, and RSV cases, hospitalization, and vaccination data for residents beginning with the week of January 6, 2025.

Generating Data Sets

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

To generate datasets in NHSN:

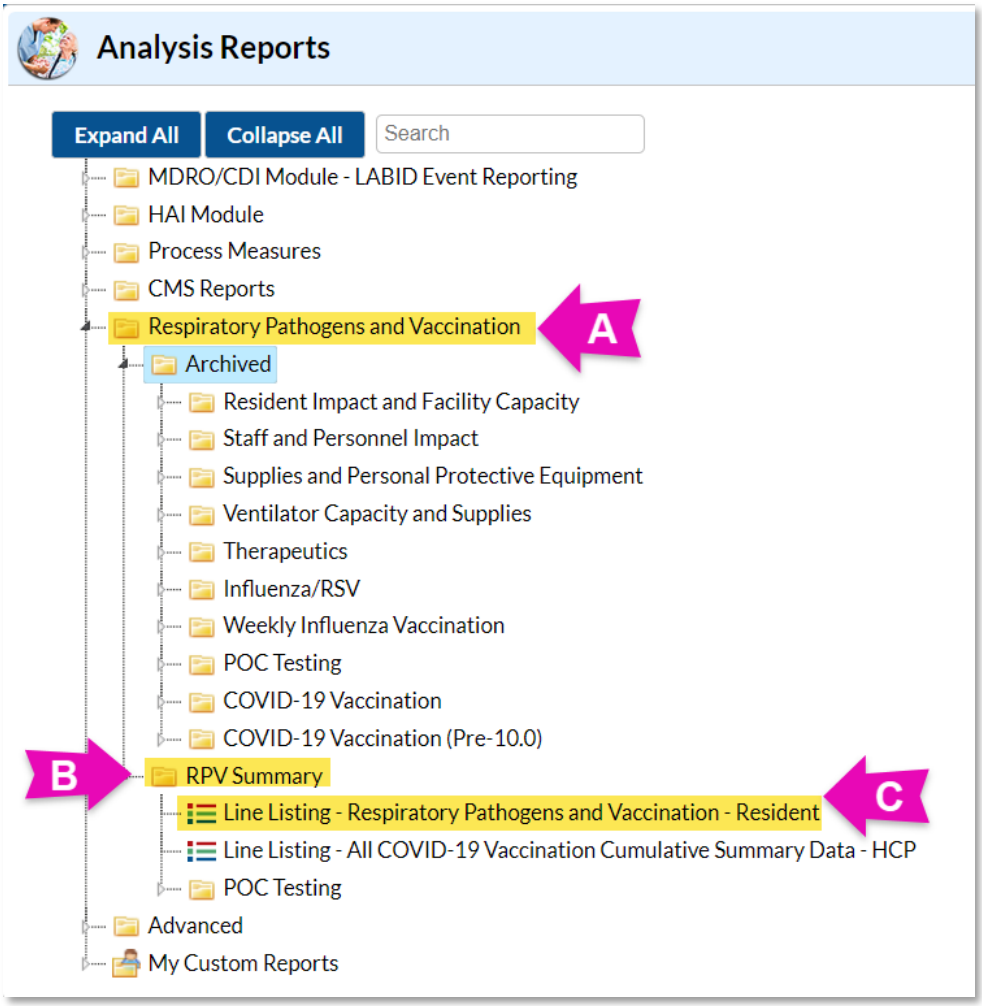
1. Navigate to **Analysis** and **Generate Data Sets**.
2. Next, on the "Reporting Data Sets" tab, click **Generate Reporting Data Sets**. A pop-up alert will appear, asking "The current data sets will be updated. Are you sure you want to continue?"
3. Click **Ok**.



Creating the Line Listing

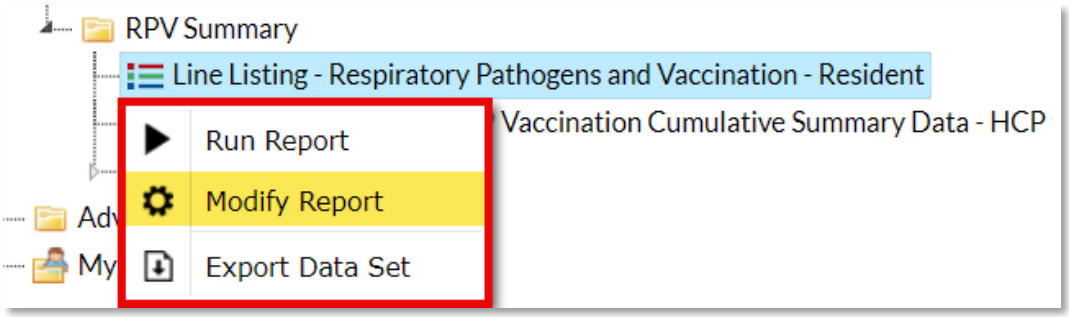
Once you have generated your datasets, you can produce a line listing report. First, navigate to “Analysis” > “Reports.”

1. On the “Analysis Reports” screen, click on the “Respiratory Pathogens and Vaccination” folder (see screenshot below).
    - Note: The archived folder (listed immediately under the Respiratory Pathogens and Vaccination line) is where reports preset for COVID-19 vaccination and pathways data for reporting weeks prior to 9/30/2024.
2. Select the “RPV Summary” subfolder. Since this guide discusses resident data and not healthcare personnel data, the “Respiratory Pathogens and Vaccination” folder is selected in the example below, regardless of the time period included in the output.
3. Click on the report that you would like to run. For this example, “Line Listing – Respiratory Pathogens and Vaccination – Resident” has been selected.



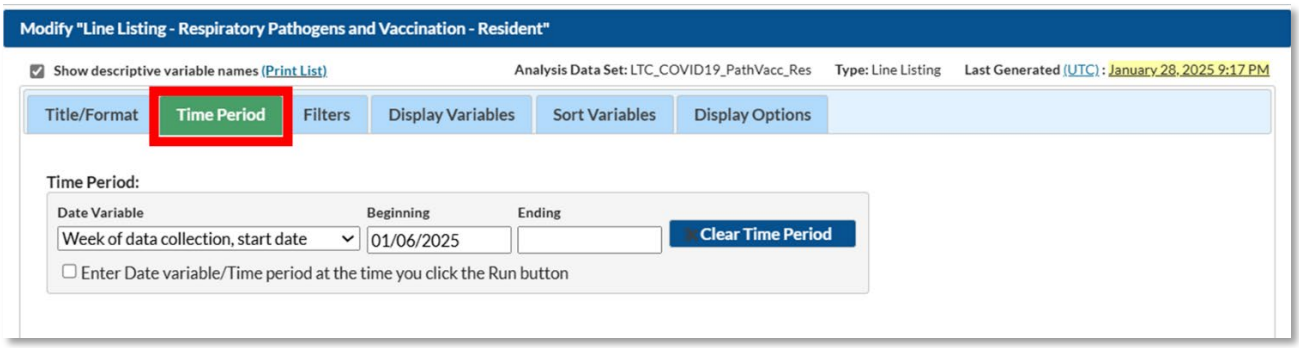
Modifying the Report

Using the "Modify Report" option allows you to customize your report. You can add a title to the output, select a time period, and add filters. You may also select additional variables, remove variables from the default list, choose how to sort variables, and select display options. Facilities can also select **Run Report** to run the line list report without modifying any variables. 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. If you do not select a time period, your report will include all data from your previously generated dataset. For this example, since we are interested in RPV data beginning with the week of January 6, 2025, we will adjust the time period as shown below.



Filters

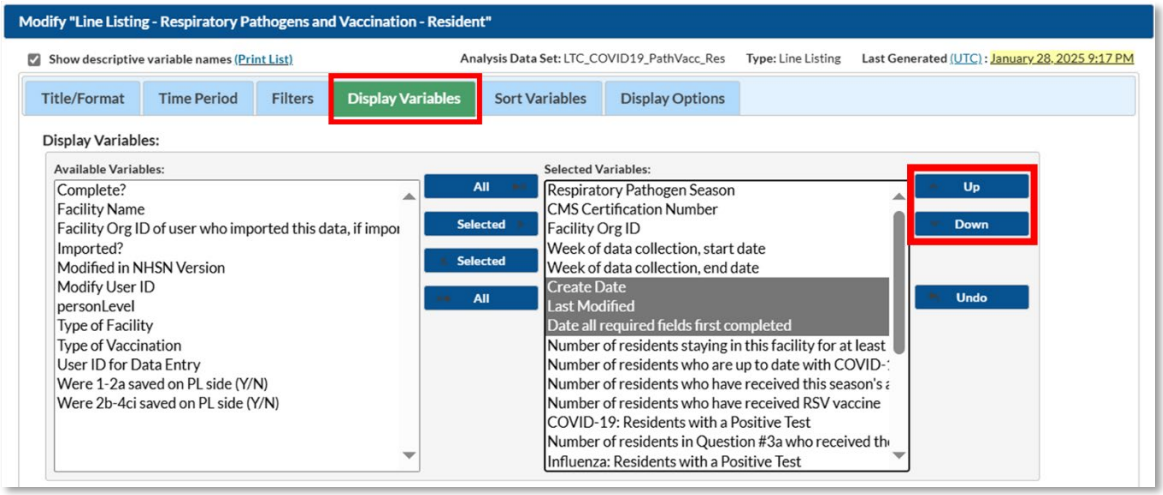
The "Filters" tab allows you to filter the data displayed in the report. For example, you may choose to view only a subset of the data, such as the vaccination data.

Display and Sort Variables

The "Display Variables" and "Sort Variables" tabs allow you to display and sort specific variables in a line listing 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.

Select "Show descriptive variable names" under the report title in the upper left corner to create a more detailed view.

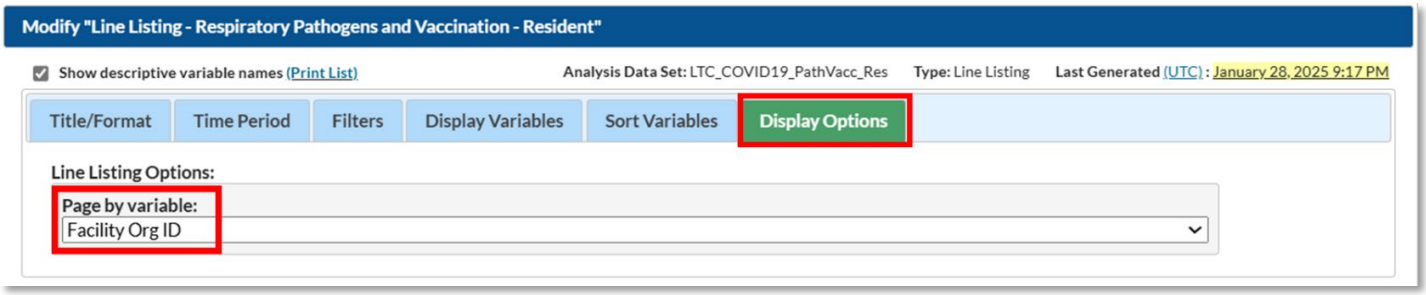
You can also re-order the selected variables using the "Up" and "Down" buttons found to the right of the selected variables list. For this example, the required variables for the report—**Create Date, Last Modified**, and the **Date all required fields first completed**—are already in the Selected Variables column. The variables were moved up from their initial position so that they were grouped together for ease of viewing the report.



Tip: *Not sure of the meaning of the variables in the list? Use this variable reference list: https://www.cdc.gov/nhsn/xls/covid-19-rpv-public-data-dictionary.xlsx*

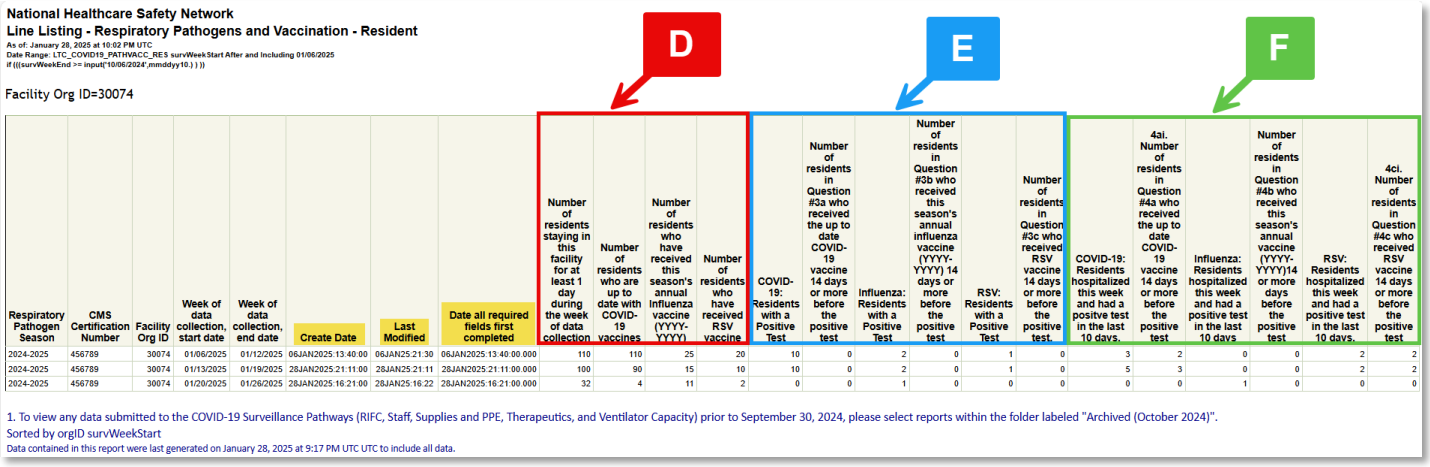
Display Options

Recommendation for Group-level Users: If you are analyzing data as a NHSN Group User, it is recommended to also select a "Page By" variable Facility 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 "Facility Org ID" as the Page by variable under the "Line Listing Options" heading.



Reviewing the Report

After modifying the report, you are now ready to view the output. Click **Run** to see a HTML output, as shown below.



National Healthcare Safety Network
Line Listing - Respiratory Pathogens and Vaccination - Resident
As of: January 28, 2025 at 10:02 PM UTC
Date Range: LTC_COVID19_PATHVACC_RES survWeekStart After and Including 01/06/2025
if (((survWeekEnd >= input('10/06/2024',mmddyy10.))))

Facility Org ID=30074

Respiratory Pathogen Season	CMS Certification Number	Facility Org ID	Week of data collection, start date	Week of data collection, end date	Create Date	Last Modified	Date all required fields first completed	Number of residents staying in this facility for at least 1 day during the week of data collection	Number of residents who are up to date with COVID-19 vaccines	Number of residents who have received this season's annual Influenza vaccine (YYYY-YYYY)	Number of residents who have received RSV vaccine	COVID-19: Residents with a Positive Test	Number of residents in Question #3a who received the up to date COVID-19 vaccine 14 days or more before the positive test	Influenza: Residents with a Positive Test	Number of residents in Question #3b who received this season's annual influenza vaccine (YYYY-YYYY) 14 days or more before the positive test	RSV: Residents with a Positive Test	Number of residents in Question #3c who received RSV vaccine 14 days or more before the positive test.	COVID-19: Residents hospitalized this week and had a positive test in the last 10 days.	4ai. Number of residents in Question #4a who received the up to date COVID-19 vaccine 14 days or more before the positive test	Influenza: Residents hospitalized this week and had a positive test in the last 10 days	Number of residents in Question #4b who received this season's annual vaccine (YYYY-YYYY)14 or more days before the positive test	RSV: Residents hospitalized this week and had a positive test in the last 10 days.	4ci. Number of residents in Question #4c who received RSV vaccine 14 days or more before the positive test
2024-2025	456789	30074	01/06/2025	01/12/2025	06JAN2025:13:40:00	06JAN25:21:30	06JAN2025:13:40:00.000	110	110	25	20	10	0	2	0	1	0	3	2	0	0	2	2
2024-2025	456789	30074	01/13/2025	01/19/2025	28JAN2025:21:11:00	28JAN25:21:11	28JAN2025:21:11:00.000	100	90	15	10	10	0	2	0	1	0	5	3	0	0	2	2
2024-2025	456789	30074	01/20/2025	01/26/2025	28JAN2025:16:21:00	28JAN25:16:22	28JAN2025:16:21:00.000	32	4	11	2	0	0	1	0	0	0	0	0	1	0	0	0

1. To view any data submitted to the COVID-19 Surveillance Pathways (RIFC, Staff, Supplies and PPE, Therapeutics, and Ventilator Capacity) prior to September 30, 2024, please select reports within the folder labeled "Archived (October 2024)".
Sorted by orgID survWeekStart
Data contained in this report were last generated on January 28, 2025 at 9:17 PM UTC UTC to include all data.

The "Create Date," "Last Modified," and "Date Completed" columns are all recorded in Coordinated Universal Time (UTC). For more information on UTC, please see the following document: UTC Guidance Document.

- "**Create Date**" is auto-populated when *any* data are initially entered and saved in the Weekly RPV Module.
- "**Last Modified**" is auto-populated based on the most recent date that changes were made to previously submitted Weekly RPV Module data.
- "**Date all required fields first completed**" (also known as the "**Date Completed**" variable) is auto-populated when all of the required fields of the Weekly RPV Module have been entered and saved. Users can confirm complete submission for a surveillance week by checking this column in the analysis report.

D

Number of residents staying in this facility for at least 1 day during the week of data collection	Number of residents who are up to date with COVID-19 vaccines	Number of residents who have received this season's annual Influenza vaccine (YYYY-YYYY)	Number of residents who have received RSV vaccine
110	110	25	20
100	90	15	10
32	4	11	2

E

COVID-19: Residents with a Positive Test	Number of residents in Question #3a who received the up to date COVID-19 vaccine 14 days or more before the positive test	Influenza: Residents with a Positive Test	Number of residents in Question #3b who received this season's annual influenza vaccine (YYYY-YYYY) 14 days or more before the positive test	RSV: Residents with a Positive Test	Number of residents in Question #3c who received RSV vaccine 14 days or more before the positive test.
10	0	2	0	1	0
10	0	2	0	1	0
0	0	1	0	0	0

F

COVID-19: Residents hospitalized this week and had a positve test in the last 10 days.	4ai. Number of residents in Question #4a who received the up to date COVID-19 vaccine 14 days or more before the positive test	Influenza: Residents hospitalized this week and had a positive test in the last 10 days	Number of residents in Question #4b who received this season's annual vaccine (YYYY-YYYY)14 or more days before the positive test	RSV: Residents hospitalized this week and had a positive test in the last 10 days.	4ci. Number of residents in Question #4c who received RSV vaccine 14 days or more before the positive test
3	2	0	0	2	2
5	3	0	0	2	2
0	0	1	0	0	0

This report contains data about COVID-19, influenza, and RSV vaccination, case, and hospitalization rates:

- **Section D** display COVID-19, influenza, and RSV **vaccination** data for residents at a long-term care facility.
- **Section E** display COVID-19, influenza, and RSV **case** data for residents at a long-term care facility.
- **Section F** display COVID-19, influenza, and RSV **hospitalization** data for residents at a long-term care facility.

Based on the data generated for the reporting week **1/6/2025 – 1/12/2025**, we can conclude the following:

- 110 Residents stayed at this facility for at least 1 day during the week of data collection.
- 110 Residents are up to date (UTD) with COVID-19 vaccines.
- 25 Residents received the influenza vaccine for the 2024-2025 influenza season.
- 20 Residents received the RSV vaccine.
- 10 Residents had a positive COVID-19 test.
- 0 Residents with a positive COVID-19 test received the UTD COVID-19 vaccine 14 or more days prior to the positive test.
- 2 Residents had a positive influenza test.
- 0 Residents with a positive influenza test received the 2024-2025 influenza vaccine 14 or more days prior to the positive test.
- 1 Resident had a positive RSV test.
- 0 Residents with a positive RSV test received the RSV vaccine 14 or more days prior to the positive test.
- 3 Residents hospitalized this week received a positive COVID-19 test in the last ten days.
- 2 of the Residents hospitalized for COVID-19 received the UTD COVID-19 vaccine 14 or more days prior to the positive test.
- 0 Residents hospitalized this week received a positive influenza test in the last ten days.
- 2 Residents hospitalized this week received a positive RSV test in the last ten days.
- 2 of the Residents hospitalized for RSV received the RSV vaccine 14 or more days prior to the positive test.
- The required fields of the Weekly RPV Module were first completed on January 6, 2025.

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