

Houston Health Department 2023-2024 Weekly Influenza Report Syndromic Surveillance

MMWR Week 2024 08 (ending 02/24/2024)

Key Highlights:

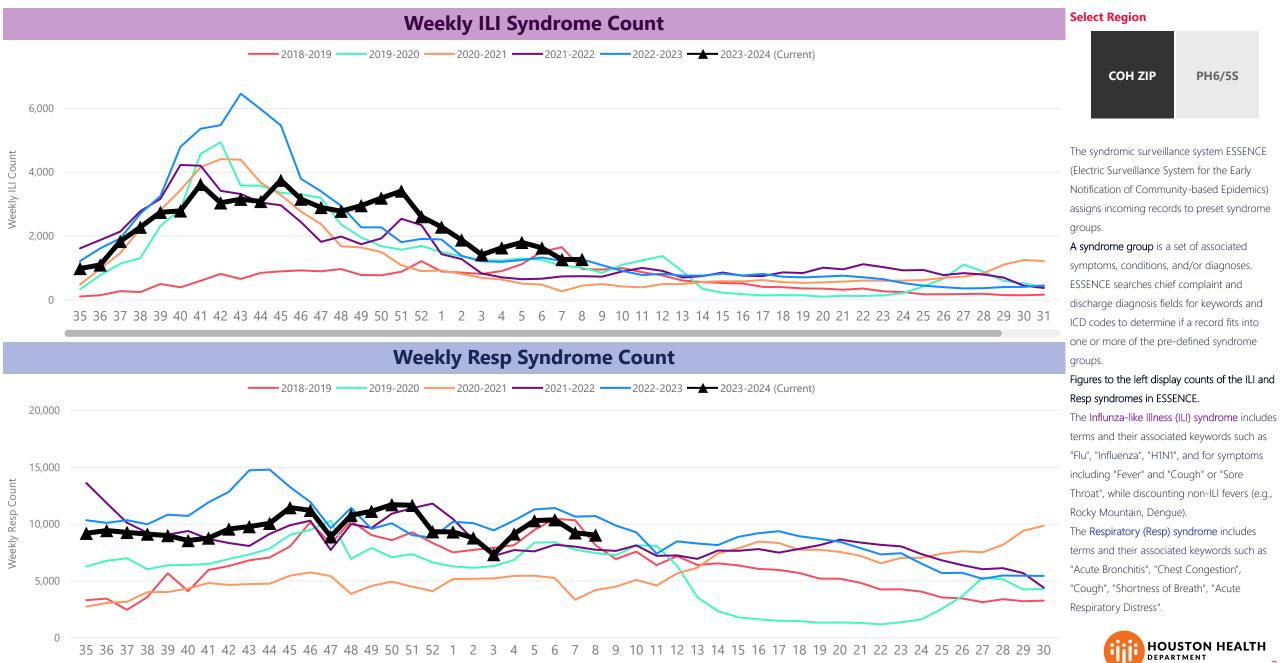
Historically, the influenza season begins around the first of October, usually MMWR Week 40. Last season (2022-2023), HHD observed an uptick in influenza prior to Week 40. Because of this slight change in timeline from the traditional influenza season, all figures in this report currently begin on Week 35. There is a 7 day lag for state and national values reported. Last 5 weeks of syndromic data are subject to change.

Figures begin on page 3 of this report. Please note that wastewater was not sampled for 2024 Week 3 due to weather events.

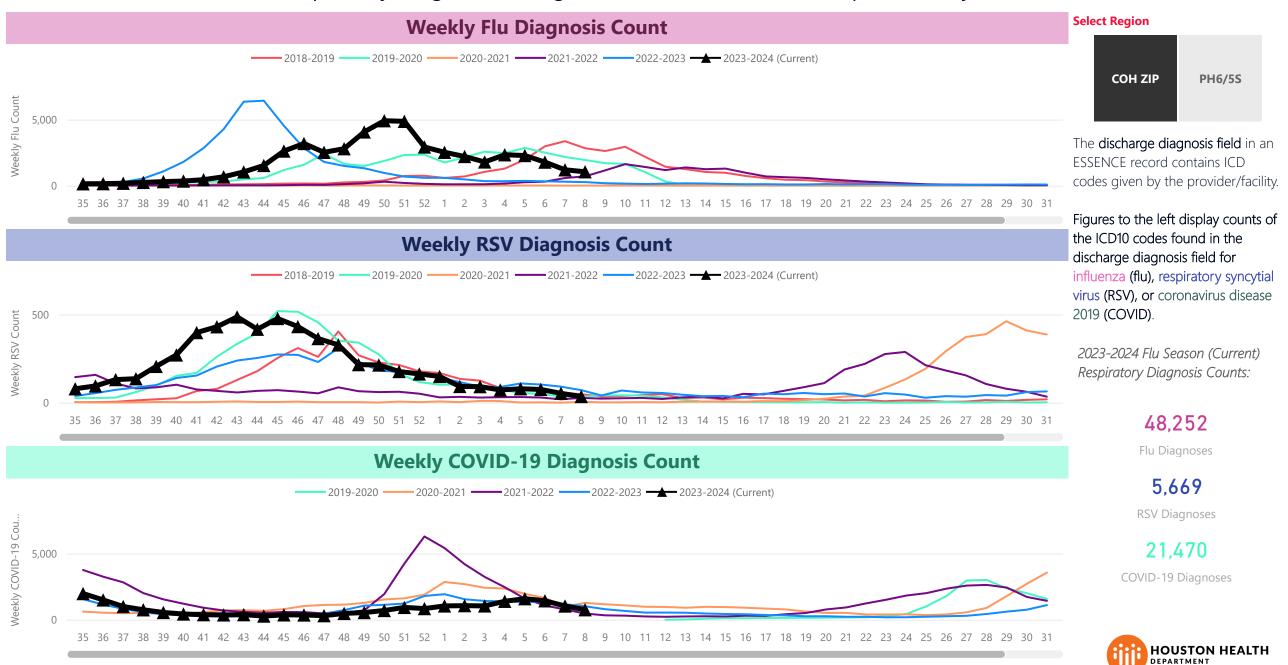
- ILI & Resp Syndrome Historical (COH), page 3: The weekly ILI syndrome count is slightly up from the previous week and overall trend has been decreasing the past few weeks. The weekly Resp syndrome count is slightly down from last week, consistent with previous seasons for the timeframe.
- Respiratory Diagnoses Historical (COH), page 4: The weekly flu diagnosis count is down from last week and has been decreasing the past several weeks. The weekly RSV diagnosis count is down from previous week and trending downward for the past few months/leveling out the past few weeks. The weekly COVID-19 diagnosis count is down from the previous week, similar to trends and counts seen in previous seasons for this timeframe.
- Current Respiratory Diagnoses with Wastewater data, page 5: the weekly influenza diagnosis count is down from the previous week, while the wastewater level is up from the previous week. The RSV diagnosis count is down from the previous week, while the wastewater level is up from the previous week. The COVID-19 diagnosis count and wastewater level are down from the previous week.
- Current Flu Season with Texas and National trends, pages 6: Both national and Texas counts of positive influenza tests by clinical laboratories and ILINet % of visits for ILI are potentially leveling out/trending down after weeks of increasing trends.
- Demographics of Flu Diagnoses for COH (past 5 weeks), page 7: a majority of the current seasons flu diagnoses in the past 5 weeks in COH are children ages 5 to 17 and this age group and children under 5 age group have the highest ILI visit percentages. Males and females make up close to equal proportions of flu diagnoses, with males having a slightly higher % ILI visits. Hispanic followed by NH White and NH Black make up a majority of flu diagnoses for the past 5 weeks, NH Black, Hispanic, and NH Asian have the highest ILI visit percentage the past few weeks.
- Page 8 & 9 are the same figures shown in pages 3 and 4, except the display trends for the whole PH6/5S region, which currently mirror the trends of COH.



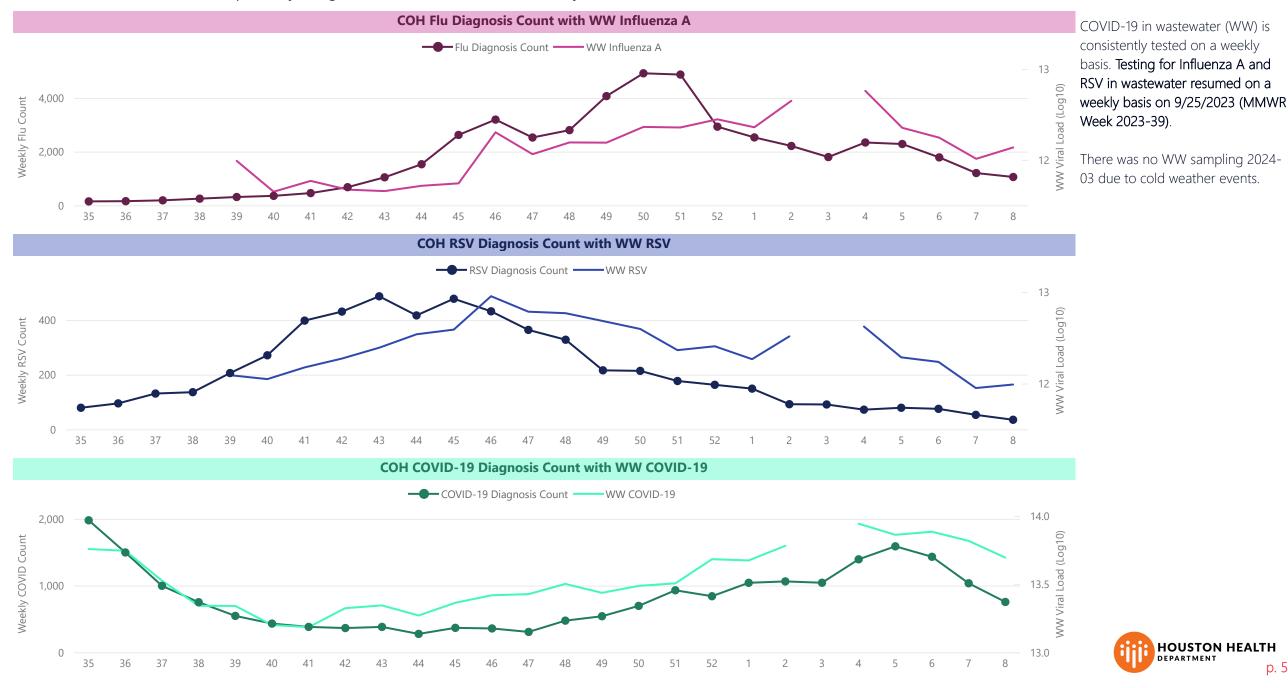
ILI & Resp Syndrome during Flu Season: 2023-2024 and previous 5 years



<u>Respiratory Diagnosis during Flu Season: 2023-2024 and previous 5 years</u>

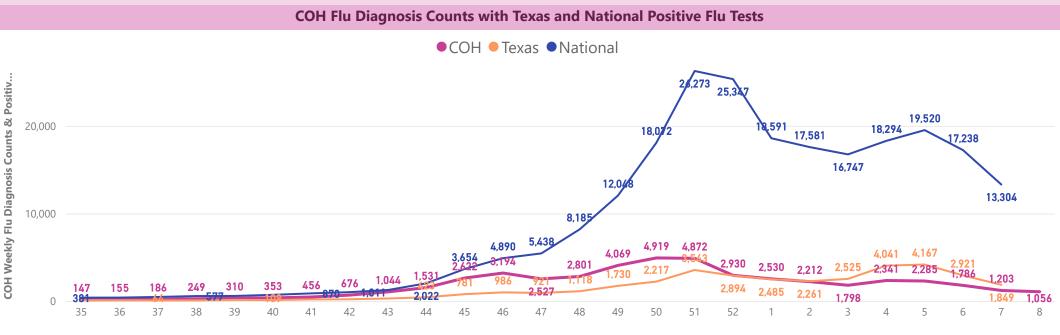


Respiratory Diagnoses (Flu, RSV, COVID) Weekly Counts with Wastewater Trends for Current 2023-2024 Flu Season



p. 5

COH Flu Diagnosis Weekly Counts & Percentage of Visits with National and Texas Flu Trends for Current 2023-2024 Flu Season

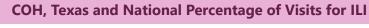


Note on top figure: this figure is for comparison of general trends only. National and Texas weekly values (influenza positive tests reported to CDC by clinical laboratories) are sourced from CDC's FluView and are displayed with weekly syndromic flu diagnosis counts for the COH 126 ZIP codes.

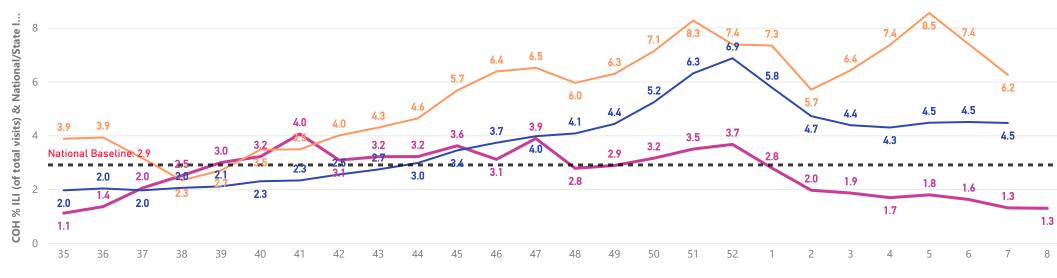
Note on bottom figure: this figure is for comparison of general trends only. National and Texas weekly values (percentage of visits for ILI) are sourced ILINet via CDC's FluView and are displayed with weekly percent ILI (out of total visits) from ESSENCE for the COH 126 ZIP codes.

The dashed line on figure corresponds to the 2023-2024 national baseline value.









Demographics of Flu Diagnoses for 2023-2024 Flu Season (Last 5 weeks, COH 126 ZIP Codes)

16%

50%

23%

2024-04

50%

50%

2024-04

100%

50%

0%

100%

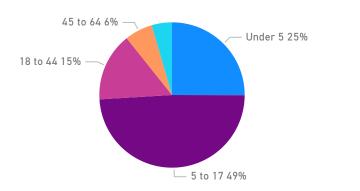
50%

0%

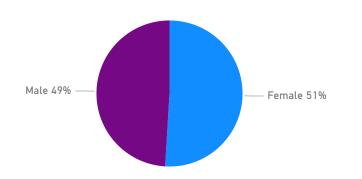
Last 5 Weeks: Flu Diagnosis Count

8.555

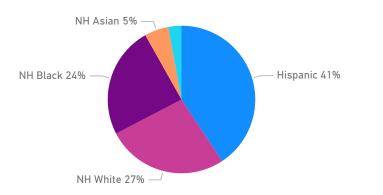
AGE GROUP: % Distribution for Current Season



SEX: % Distribution for Current Season



RACE-ETHNICITY: % Distribution for Current Season



AGE GROUP: % Distribution by Week

15%

51%

25%

2024-06

48%

52%

2024-06

SEX: % Distribution by Week

18%

45%

26%

2024-07

48%

52%

2024-07

17%

43%

26%

48%

52%

2024-08

13%

52%

26%

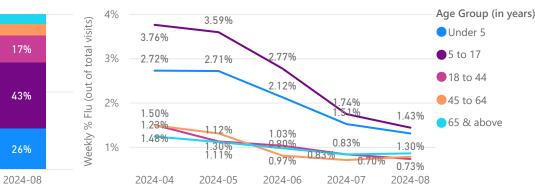
2024-05

50%

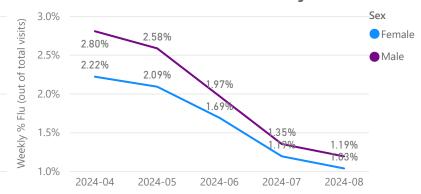
50%

2024-05

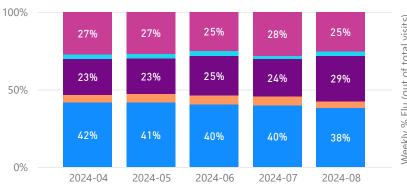
AGE GROUP: % Flu of Total Visits by Week



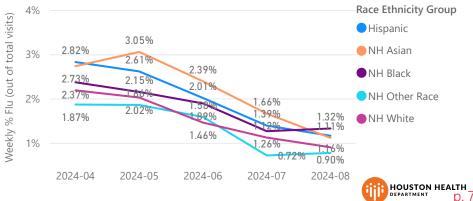
SEX: % Flu of Total Visits by Week



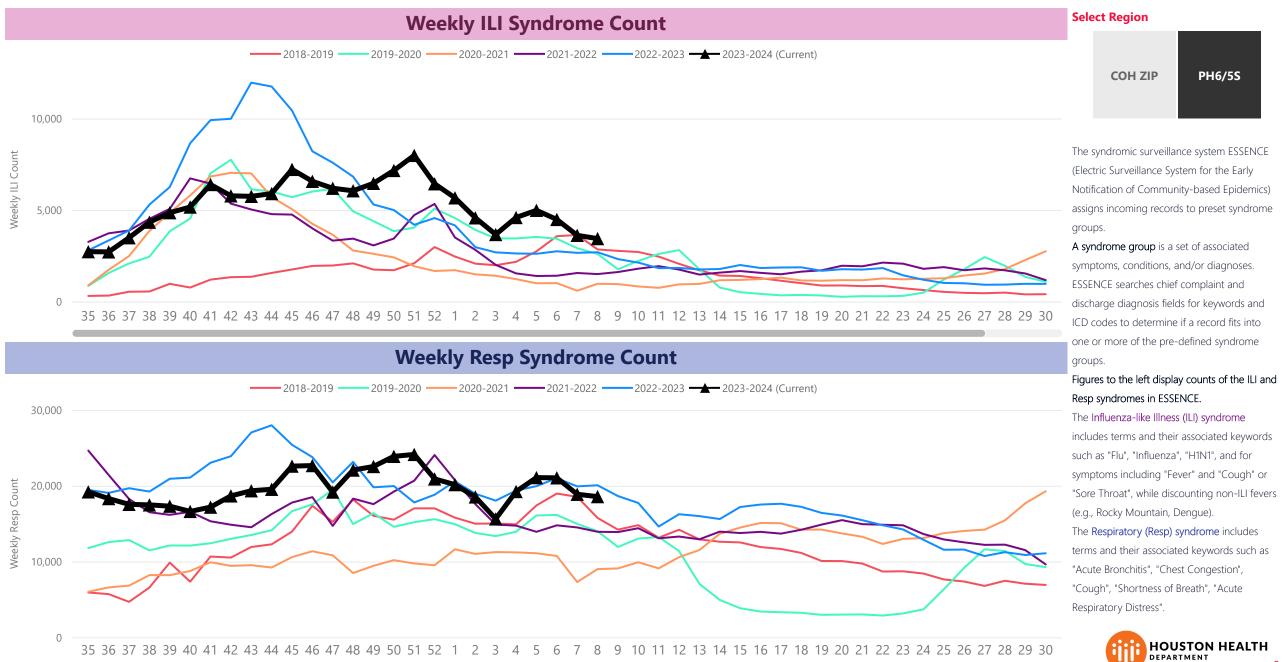
RACE-ETHNICITY: % Distribution by Week



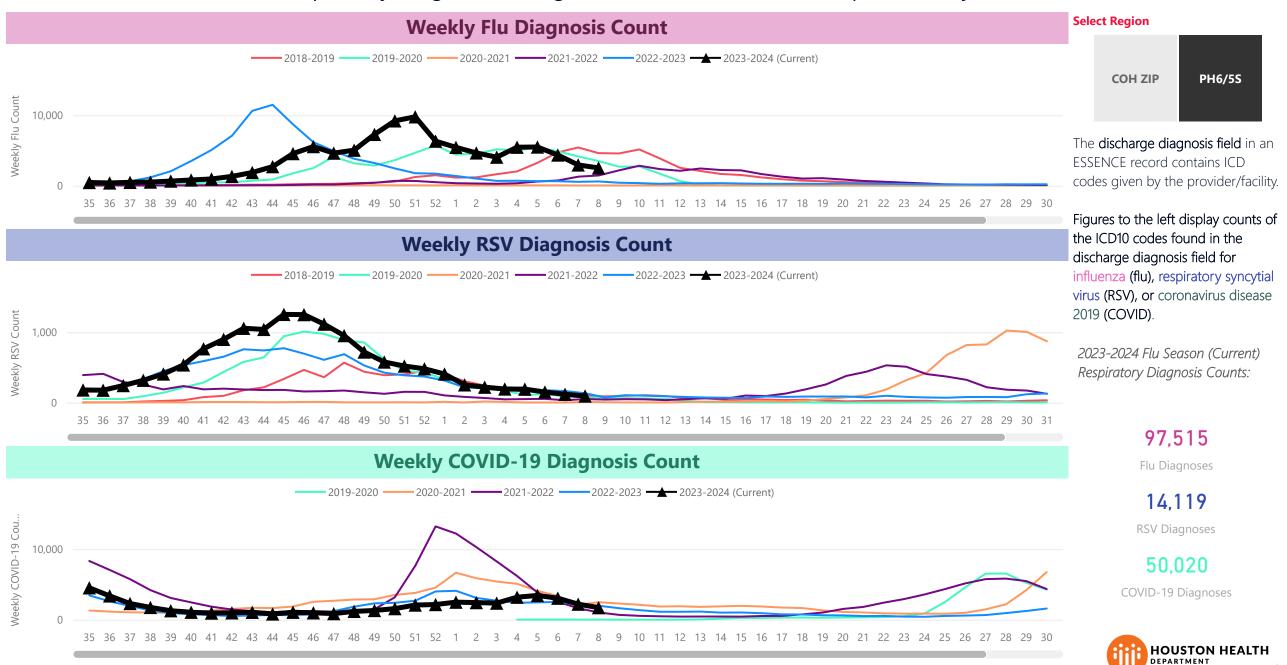
RACE-ETHNICITY: % Flu of Total Visits by Week



ILI & Resp Syndrome during Flu Season: 2023-2024 and previous 5 years



<u>Respiratory Diagnosis during Flu Season: 2023-2024 and previous 5 years</u>



p. 9