

Houston Health Department 2023-2024 Weekly Influenza Report Syndromic Surveillance

MMWR Week 2024 01 (ending 01/06/2024)

Key Highlights:

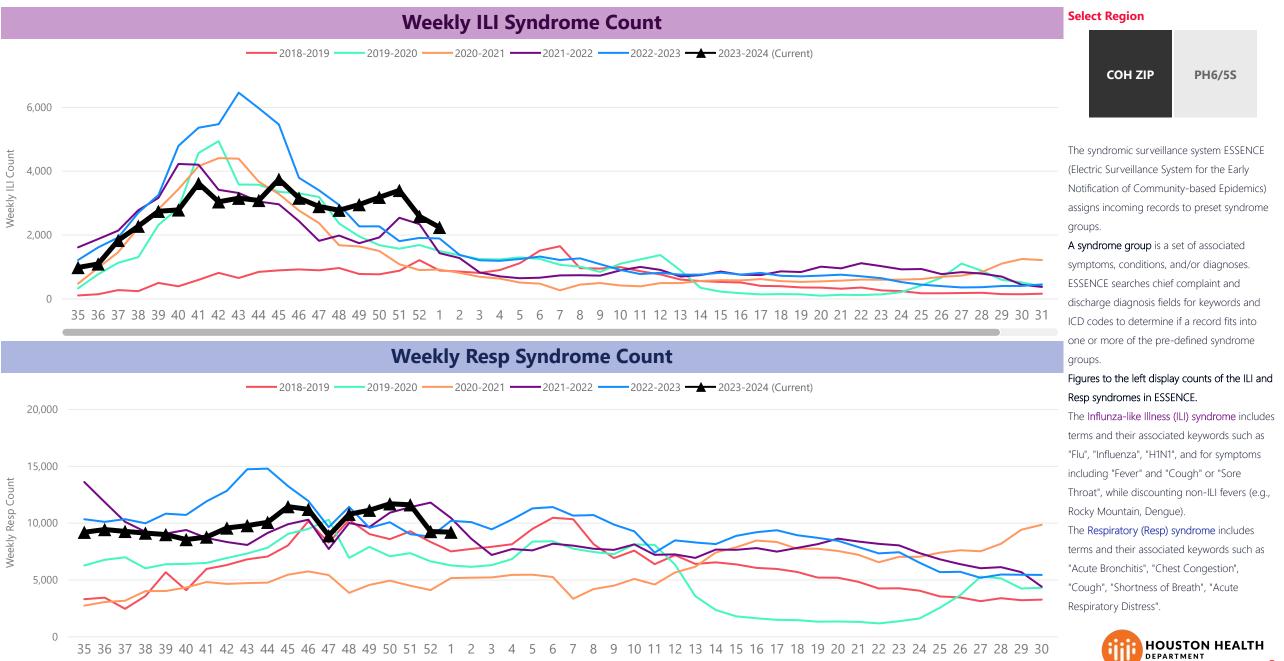
Historically, the influenza season begins around the first of October, usually MMWR Week 40. Last season (2022-2023), HHD observed an uptick in influenza prior to Week 40. Because of this slight change in timeline from the traditional influenza season, all figures in this report currently begin on Week 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 2023 Week 52 & 2024 Week 01 overall had low counts potentially due to the holidays. Additionally, there is no updated wastewater levels this week for 2024 Week 01.

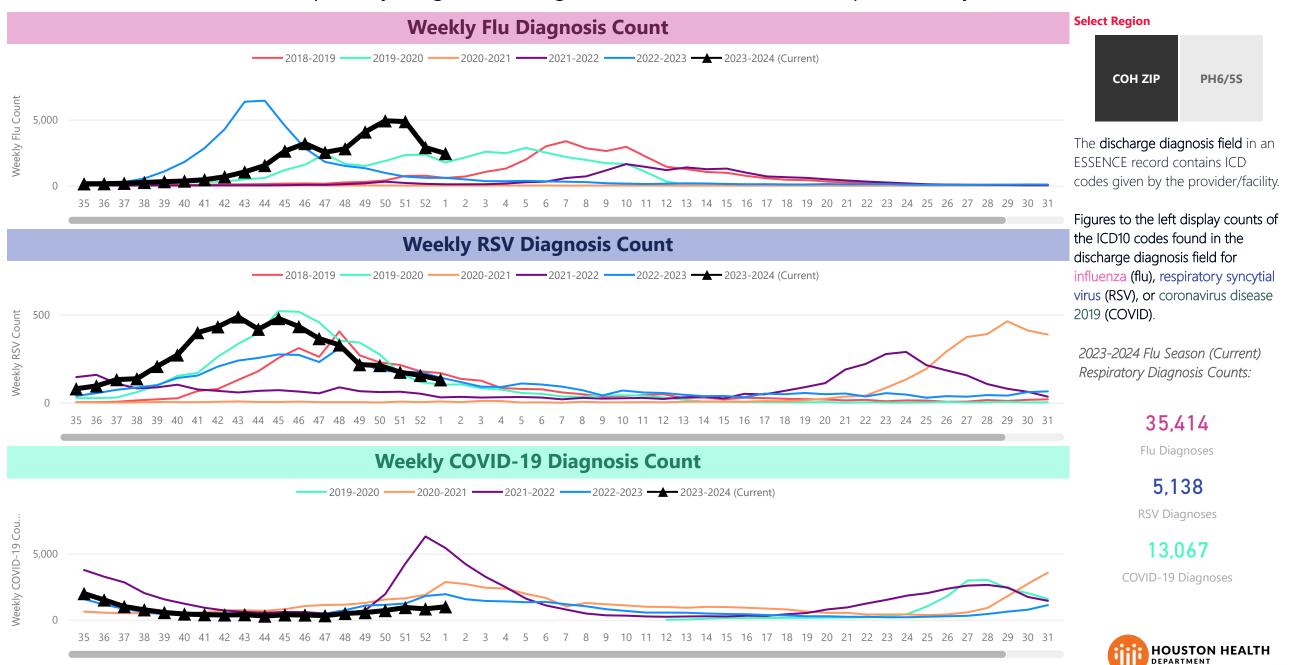
- ILI & Resp Syndrome Historical (COH), page 3: The weekly ILI syndrome count is down from the previous week and overall trend has been decreasing for the past 3 weeks, similar to the trend of the 2021-2022 season for the city of Houston. The weekly Resp syndrome count is slightly down from last week, 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 trending downward the past 3-4 weeks. The weekly RSV diagnosis count is slightly down from previous week and trending downward for the past 9 weeks. The weekly COVID-19 diagnosis count is slightly up from the previous week and trending slightly upward, 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 has been increasing since 2023 Week 40. The RSV diagnosis count is down from the previous week and the wastewater level has been trending downward for the past 8 weeks. The COVID-19 diagnosis count is slightly up from the previous week and the wastewater level has been trending upward for the past 12 weeks.
 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 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, however, recent weeks show the age group distribution and rates are changing. Males and females make up close to equal proportions of flu diagnoses, however, recent weeks show that females make up slightly higher proportion of diagnoses (males still have a slightly higher ILI percentage of total visits).
 Hispanics followed by NH Blacks make up a majority of flu diagnoses, and both these groups have the highest ILI percentage of total visits.
- 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.



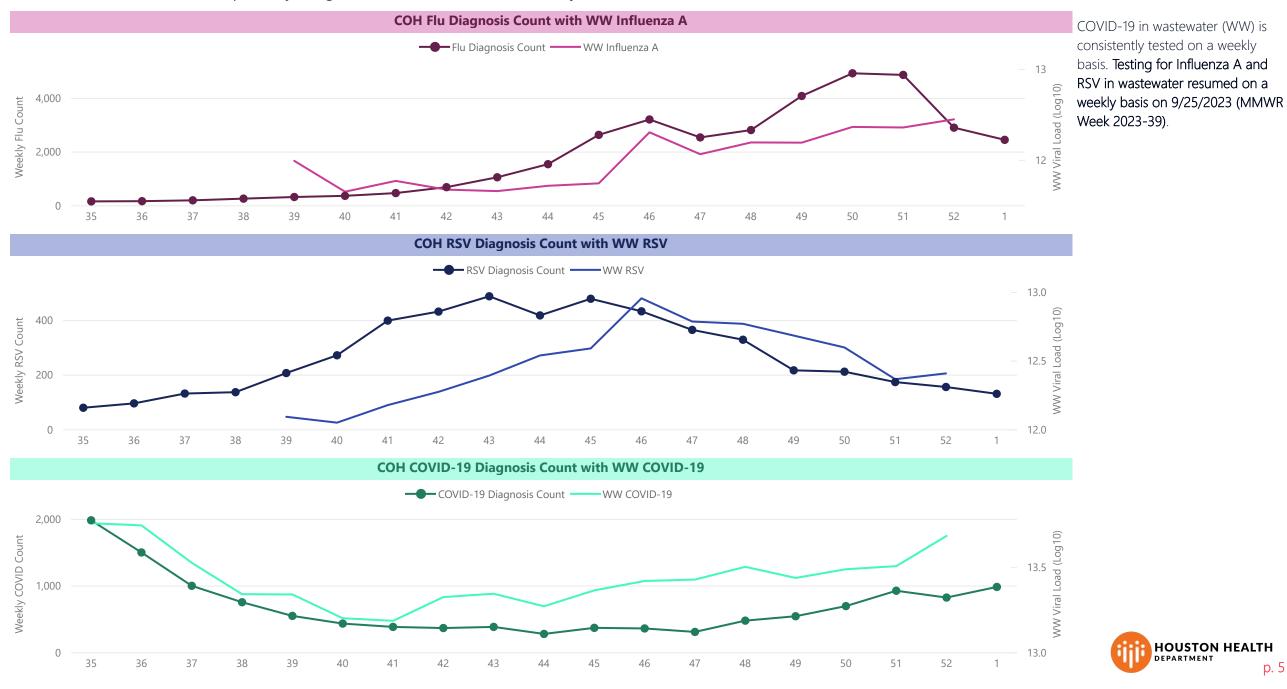
ILI & Resp Syndrome during Flu Season: 2023-2024 and previous 5 years



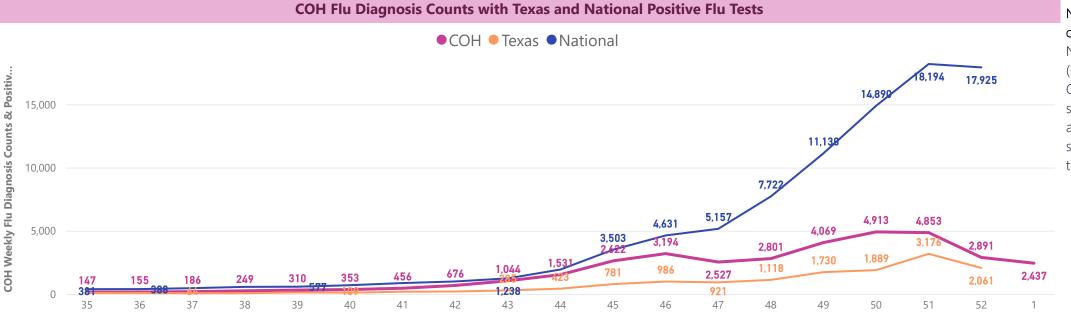
<u>Respiratory Diagnosis during Flu Season: 2023-2024 and previous 5 years</u>



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



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

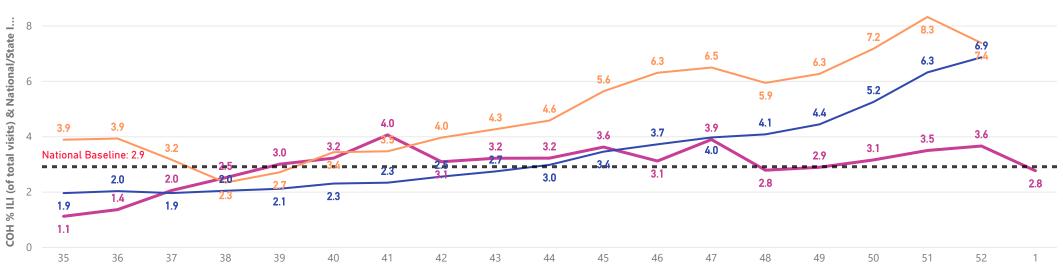


Note on top figure: this figure is for comparison of general trends only. National and Texas weekly values

(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.

COH, Texas and National Percentage of Visits for ILI

●COH ● Texas ● National



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)

14%

57%

21%

2023-49

50%

100%

50%

0%

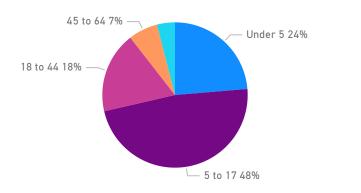
100%

Female 52%

Last 5 Weeks: Flu Diagnosis Count

18,921





SEX: % Distribution for Current Season

Male 48%

AGE GROUP: % Distribution by Week

17%

50%

23%

2023-51

48%

SEX: % Distribution by Week

25%

32%

28%

2023-52

46%

29%

25%

29%

2024-01

46%

13%

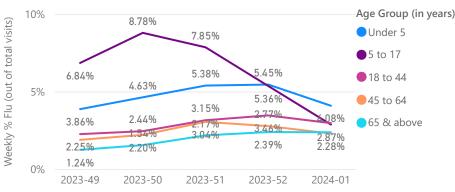
59%

21%

2023-50

50%

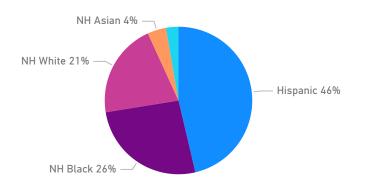
AGE GROUP: % Flu of Total Visits by Week



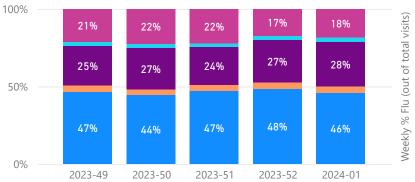
SEX: % Flu of Total Visits by Week



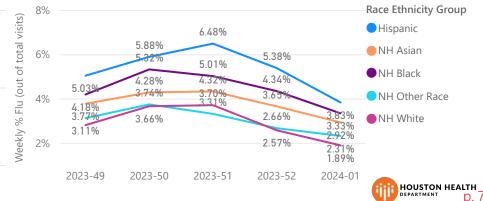
RACE-ETHNICITY: % Distribution for Current Season



RACE-ETHNICITY: % Distribution by Week



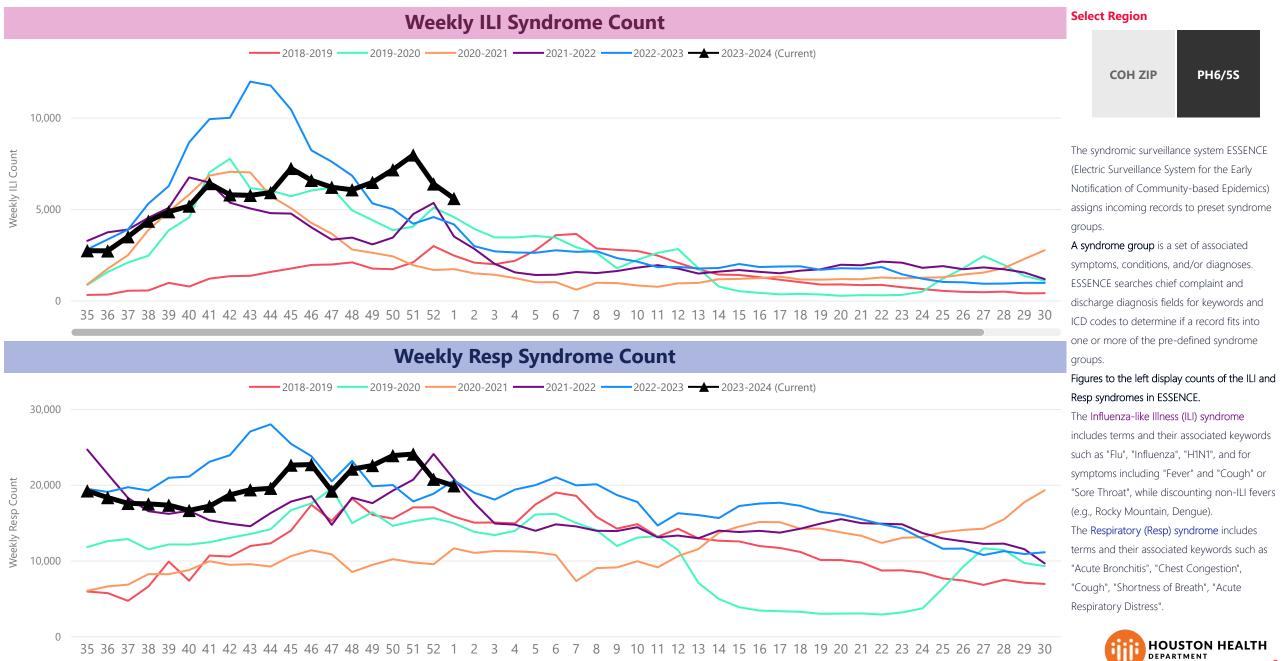
RACE-ETHNICITY: % Flu of Total Visits by Week



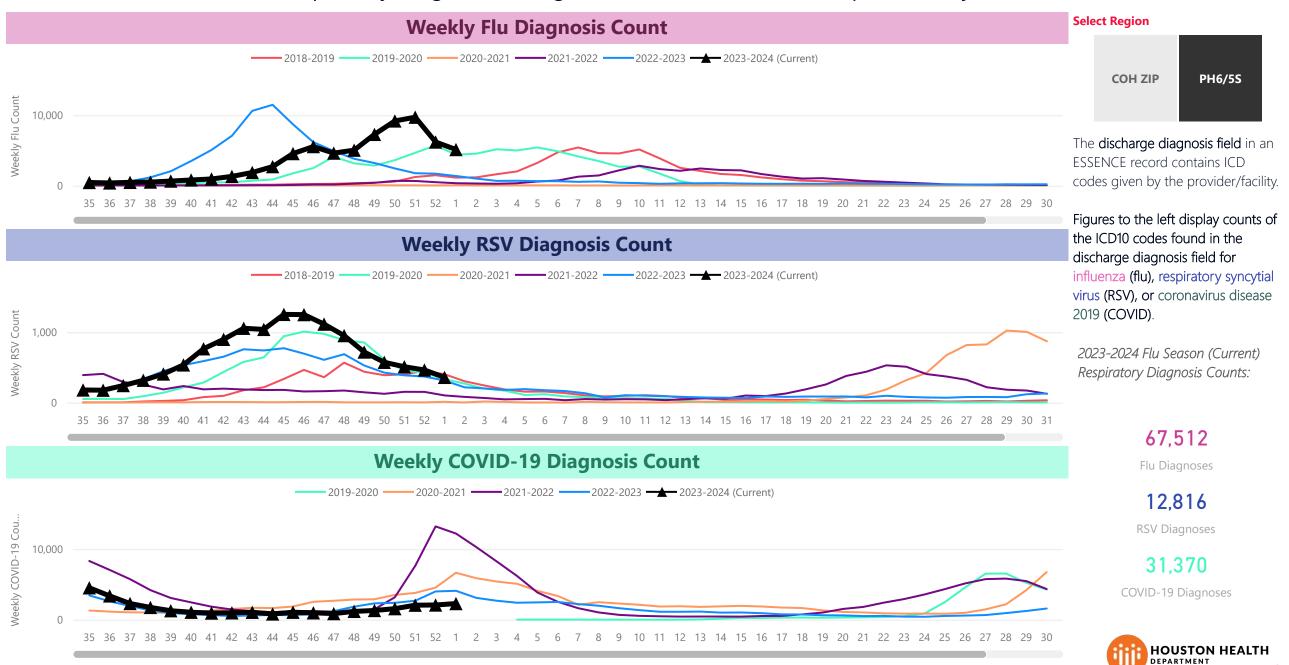
 50%
 50%
 50%
 52%
 54%
 54%

 0%
 2023-49
 2023-50
 2023-51
 2023-52
 2024-01

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