



# Protecting Chicago: Phase IV Re-Opening Metrics Update

**January 16th, 2021**

**(Data current through 1/13/2021)**

# CDPH COVID-19 Phase IV starting June 26 2020

	Stop: May need to delay moving ahead	Caution: Pause and monitor	Go: Cautious progress	Go: Continued progress	Go: Advanced progress
<b>Cases</b> 7-day rolling daily average	Any sustained (consecutive) increase >14 days within the past 28 days	Increase 0-14 days (in most recent 14 -day period)	Stable or decrease 0-13 days (w/o increase in most recent 14-day period)	Stable or decrease 14-28 days	Stable or decrease >28 days and/or sustained <200 new cases per day (~100 cases per 100,000 persons)
<b>Hospitalizations</b> 7-day rolling daily average					
<b>Deaths</b> 7-day rolling daily average					
<b>COVID Emergency department visits</b> 7-day rolling daily average					
<b>Positivity rate</b> 7-day rolling daily average	>10%	5% - 10%	3% - 5% of all daily tests are confirmed positive	<3% of all daily tests are confirmed positive	<=1% of all daily tests are confirmed positive
<b>Hospital system capacity</b> 7-day rolling daily average	>1200 non-ICU beds >250 ICU beds >300 ventilators	>1000 non-ICU beds >150 ICU beds >150 ventilators	<1000 non-ICU beds occupied by COVID patients <150 ICU beds occupied by COVID patients <150 ventilators occupied by COVID patients	<500 non-ICU beds occupied by COVID patients <75 ICU beds occupied by COVID patients <75 ventilators occupied by COVID patients	<250 non-ICU beds occupied by COVID patients <50 ICU beds occupied by COVID patients <50 ventilators occupied by COVID patients
<b>Testing capacity</b> 7-day rolling daily average	Unexplained decline in testing <4500 total tests/day	Explained decline in testing <4500 total tests/day	Stable testing >4500 total tests/day	Stable testing >6750 total tests/day	Stable testing >9,000 total tests/day
<b>Response capacity</b>	N/A	N/A	Assign case for investigation within 24h for 50% of cases	Assign case for investigation within 24h for 75% of cases	Assign case for investigation within 24h for 100% of cases

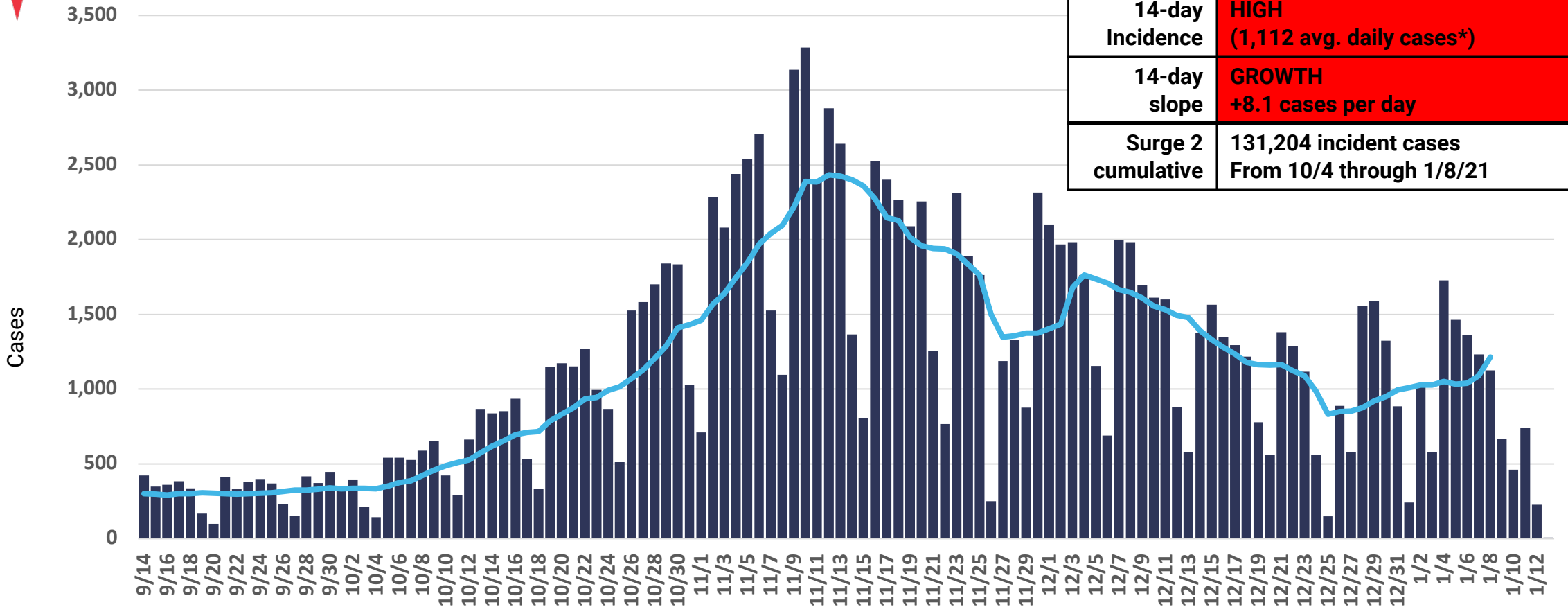


# COVID-19 Confirmed Cases

# COVID-19 case incidence is still very high and stable or increasing. Monitor closely to see if recent jump continues.



COVID-19 cases, daily counts and rolling 7-day average, specimen



Recent trend	Longer-term declines but holiday disruptions make interpretation difficult
14-day Incidence	<b>HIGH</b> (1,112 avg. daily cases*)
14-day slope	<b>GROWTH</b> +8.1 cases per day
Surge 2 cumulative	131,204 incident cases From 10/4 through 1/8/21

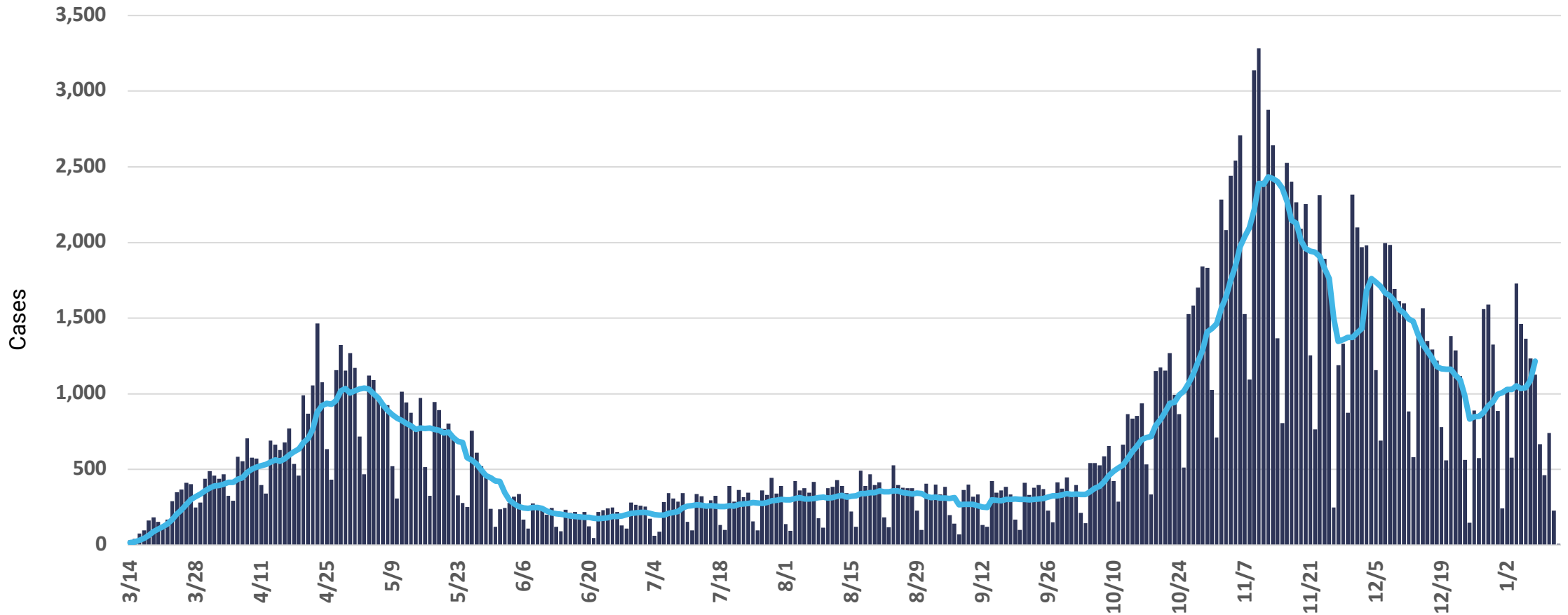
Daily COVID-19 cases with known specimen report date. \*14-day incidence is calculated by summing all new cases in the most recent 14-day period and dividing by 14 days to find an average daily count. Incidence gating rank is determined using 14-day cumulative incidence/100,000 population. The gating rank categories are defined as. LOW (1-10); MODERATELY LOW (11-25); MODERATE (26-50); MODERATELY HIGH (51-99); HIGH (100+) and presented as corresponding daily counts color-coded to gating category. Daily counts for most recent dates displayed are likely incomplete.

# COVID-19 case incidence in Chicago varies over time. Lower testing volume in Spring make comparisons difficult.



COVID-19 cases, daily counts and rolling 7-day average, specimen

Peak 7-day rolling average	2,364 avg. daily cases 11/11/2020
Surge 2 cumulative cases	131,204 incident cases From 10/4 through 1/8/21



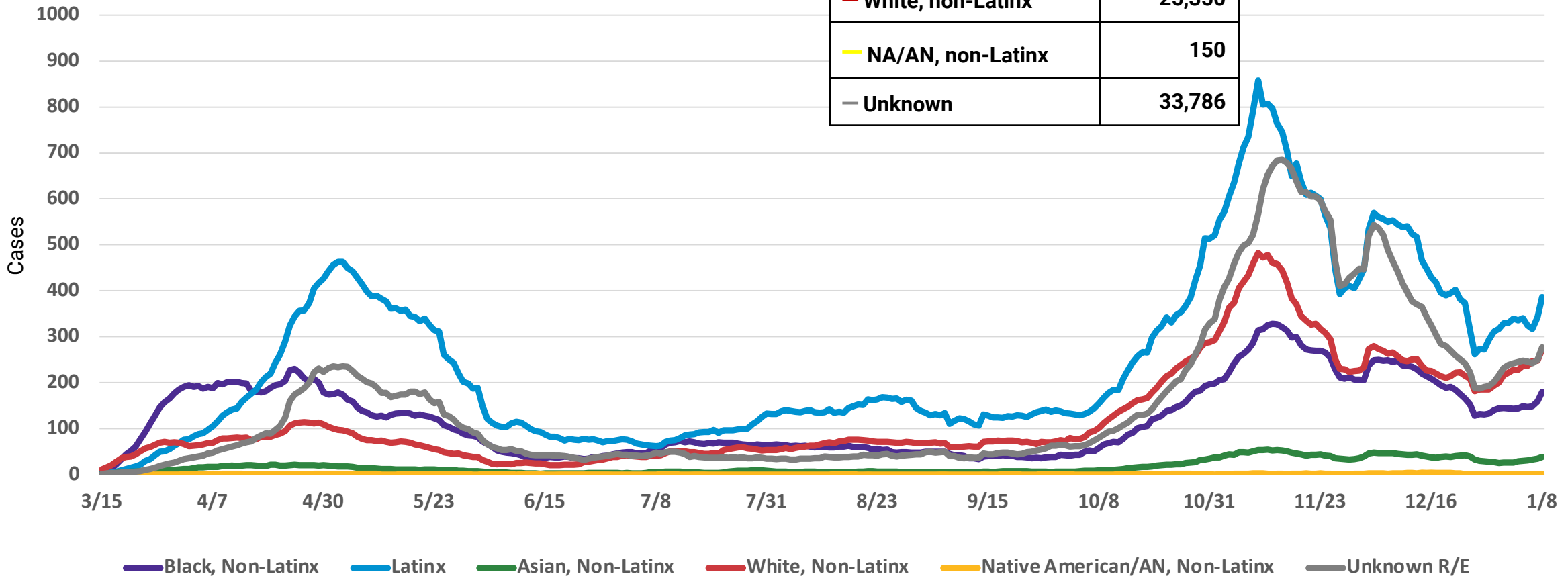
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# Surge 2 cumulative case counts by race/ethnicity, since 10/4/2020



COVID-19 cases among Chicago residents by race/ethnicity, rolling 7-day average, specimen collection date

Surge 2 Cumulative Cases (10/4/2020-01/08/2021)	
Latinx	43,536
Black, non-Latinx	18,864
Asian, non-Latinx	3,360
White, non-Latinx	25,350
NA/AN, non-Latinx	150
Unknown	33,786

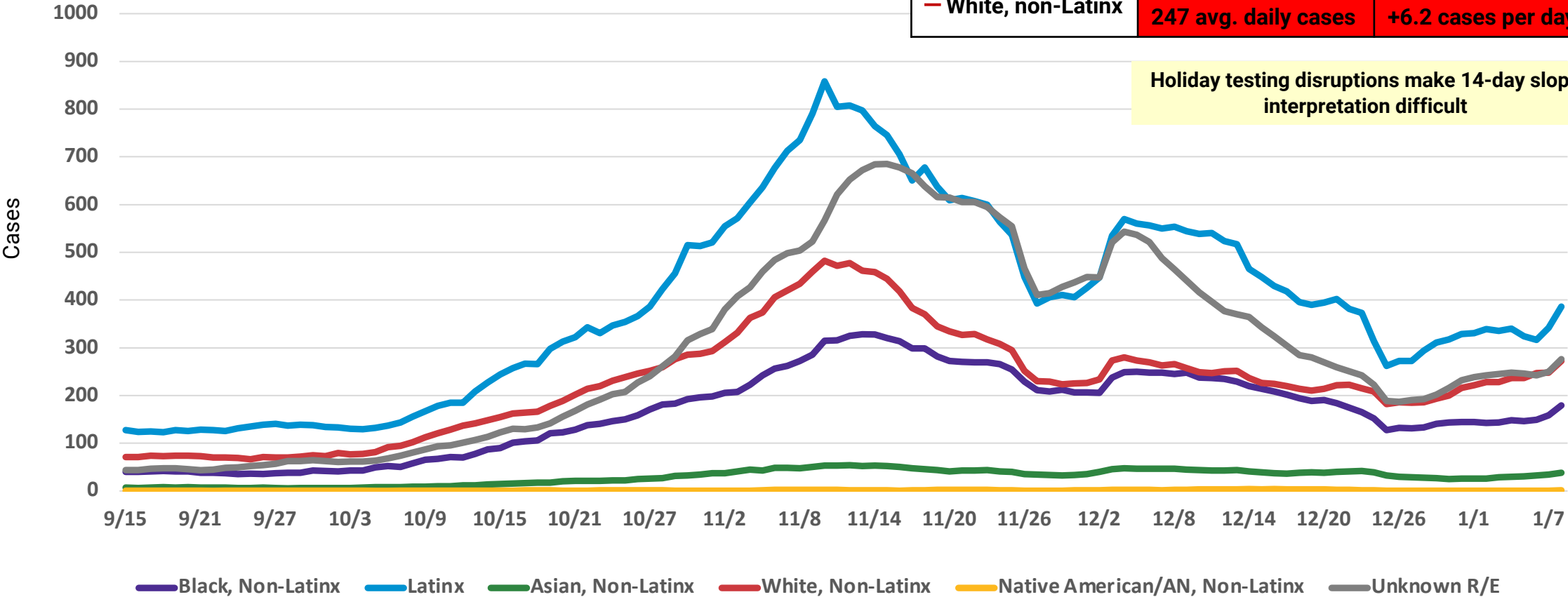


Daily COVID-19 cases with known specimen report date and race/ethnicity information.

# COVID-19 case incidence is highest among Latinx Chicagoans.



COVID-19 cases among Chicago residents by race/ethnicity, rolling 7-day average, specimen collection date



Daily COVID-19 cases with known specimen report date and race/ethnicity information. Approximately 30% of cases used to calculate 14-day incidence are missing race/ethnicity information, therefore the reported 14-day incidence represents an undercount of true incidence.



# COVID-19 Severe Outcomes

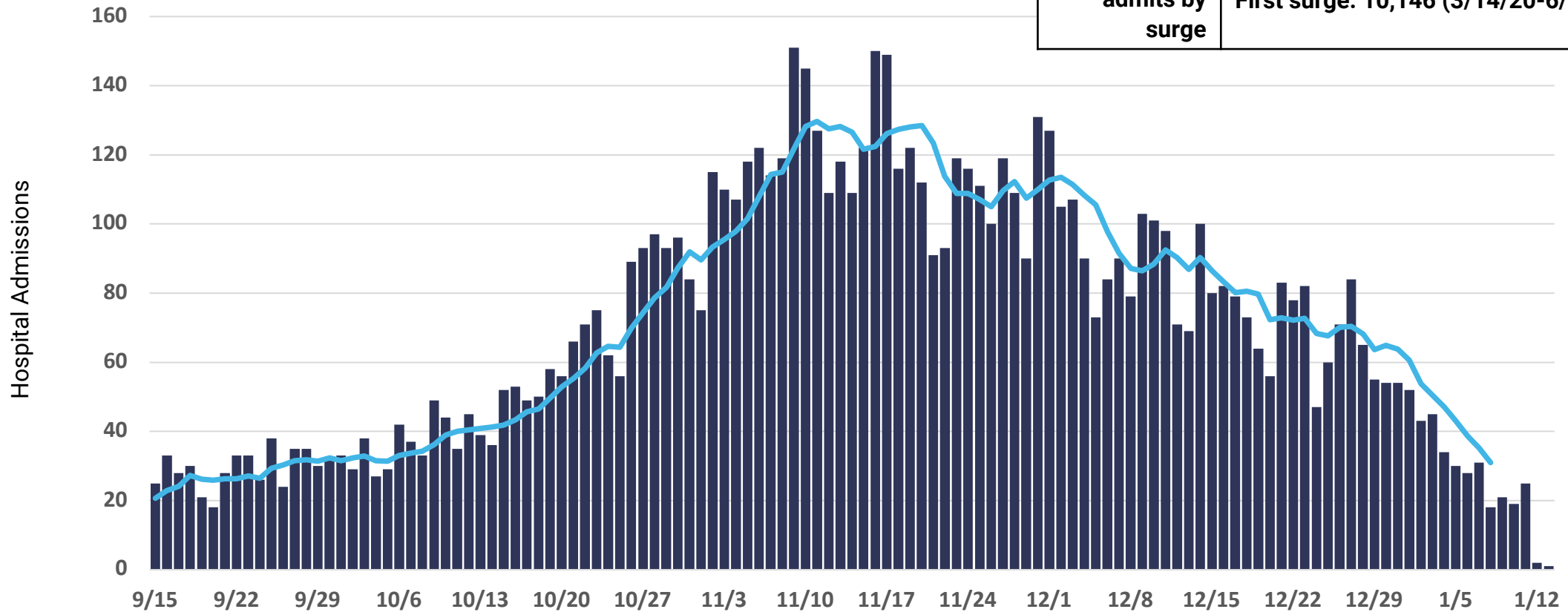


# Daily COVID-19 hospital admissions are declining in recent week(s).



COVID-19 Hospital admissions, daily counts and rolling 7-day average, first known hospital admit date

Recent trend	Stable or declining 19 days (12/20/20-1/8/21) <i>may be influenced by holiday patterns</i>
Peak 7-day rolling average	173 avg. daily admissions 4/12/2020
Cumulative hospital admits by surge	Current surge: 7,589 (10/10/20-1/8/21) First surge: 10,146 (3/14/20-6/11/20)



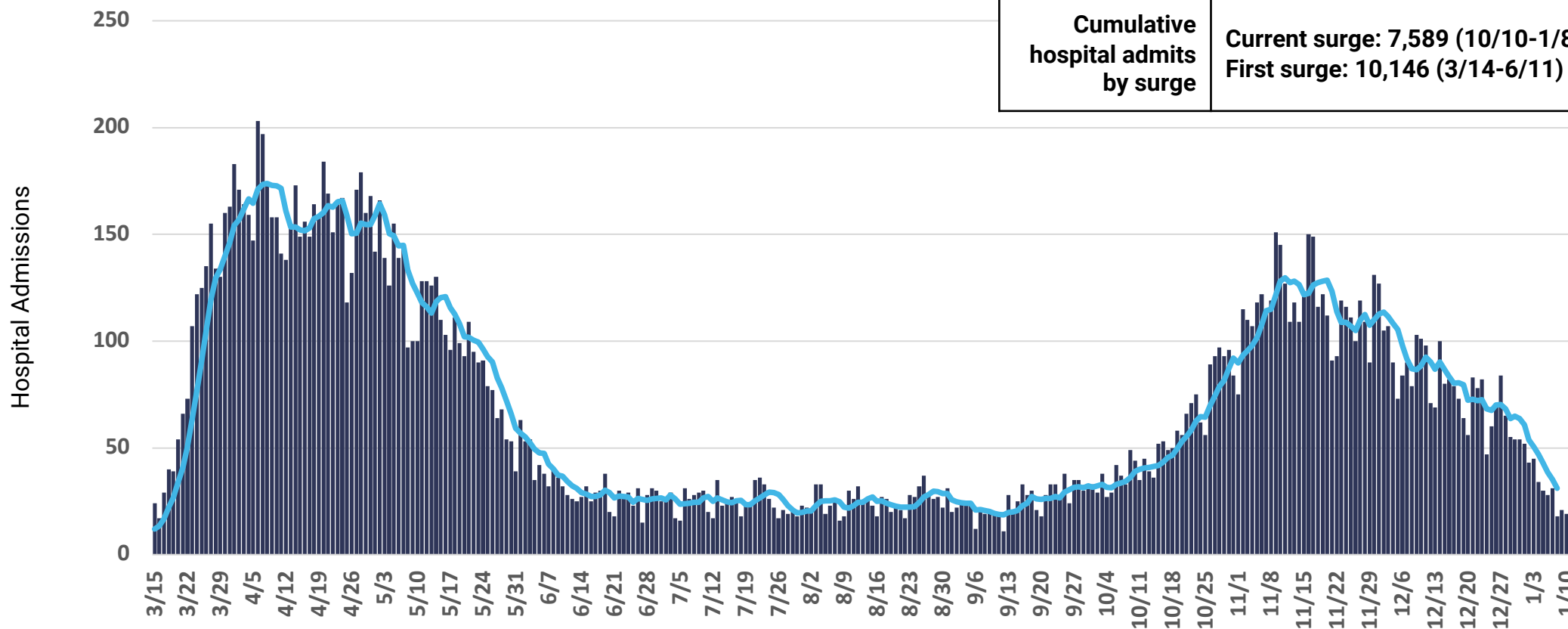
Hospitalizations are reported to CDPH by hospitals into I-NEDSS and ESSENCE and self-reported by patients via an online survey. Daily counts for most recent dates displayed are likely incomplete. Cases who are not indicated to have been hospitalized across any of the three data sources are assumed to not have been hospitalized. Six records with hospital admit dates from January and February 2020 are excluded from this chart. Peak daily admissions based on rolling 7-day average.

# Daily COVID-19 hospital admissions are on pace to reach 75% of first (Spring) surge.



COVID-19 Hospital admissions, daily counts and rolling 7-day average, first known hospital admit date

<b>Peak 7-day rolling average</b>	<b>173 avg. daily admissions 4/12/2020</b>
<b>Cumulative hospital admits by surge</b>	<b>Current surge: 7,589 (10/10-1/8/21) First surge: 10,146 (3/14-6/11)</b>

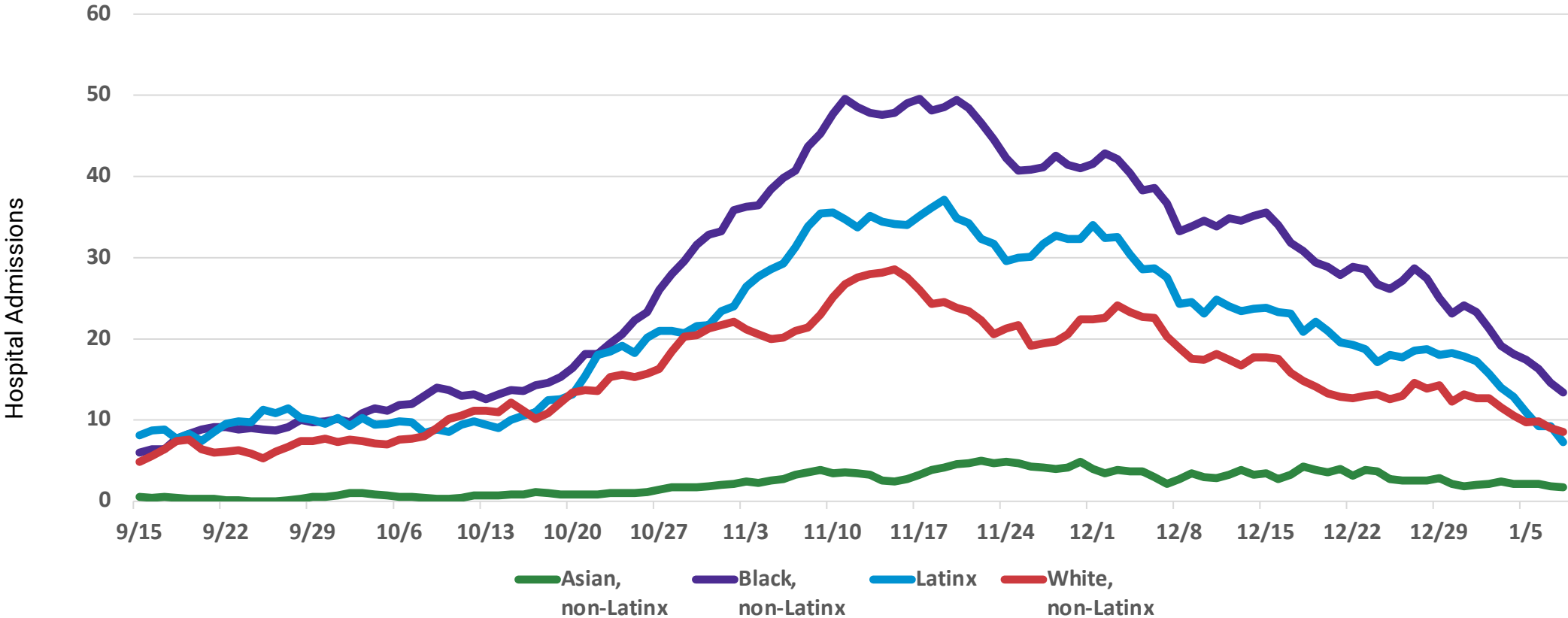


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# Daily COVID-19 hospital admissions are highest for Black, non-Latinx in the second surge. Largest drop among Latinx



COVID-19 Hospital admissions, by Race/Ethnicity, rolling 7-day average, first known hospital admit date

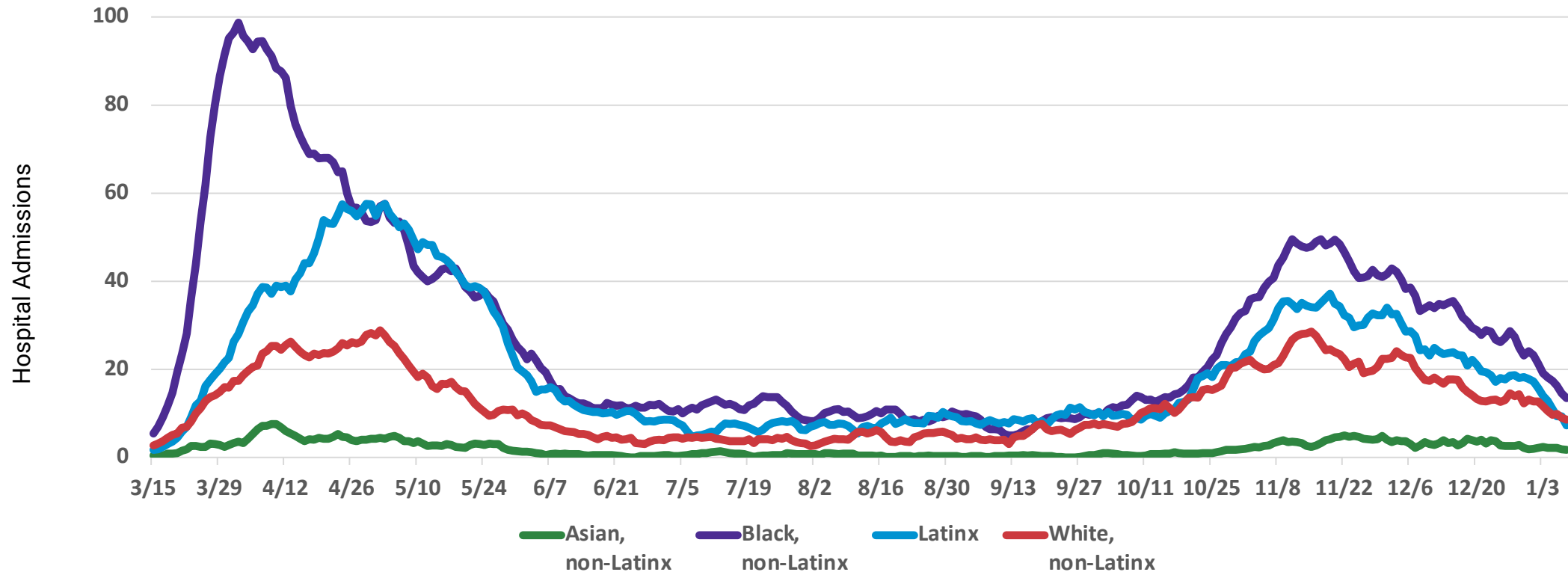


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# Daily COVID-19 hospital admissions are highest for Black, non-Latinx in the second surge.



COVID-19 Hospital admissions, by Race/Ethnicity, rolling 7-day average, first known hospital admit date



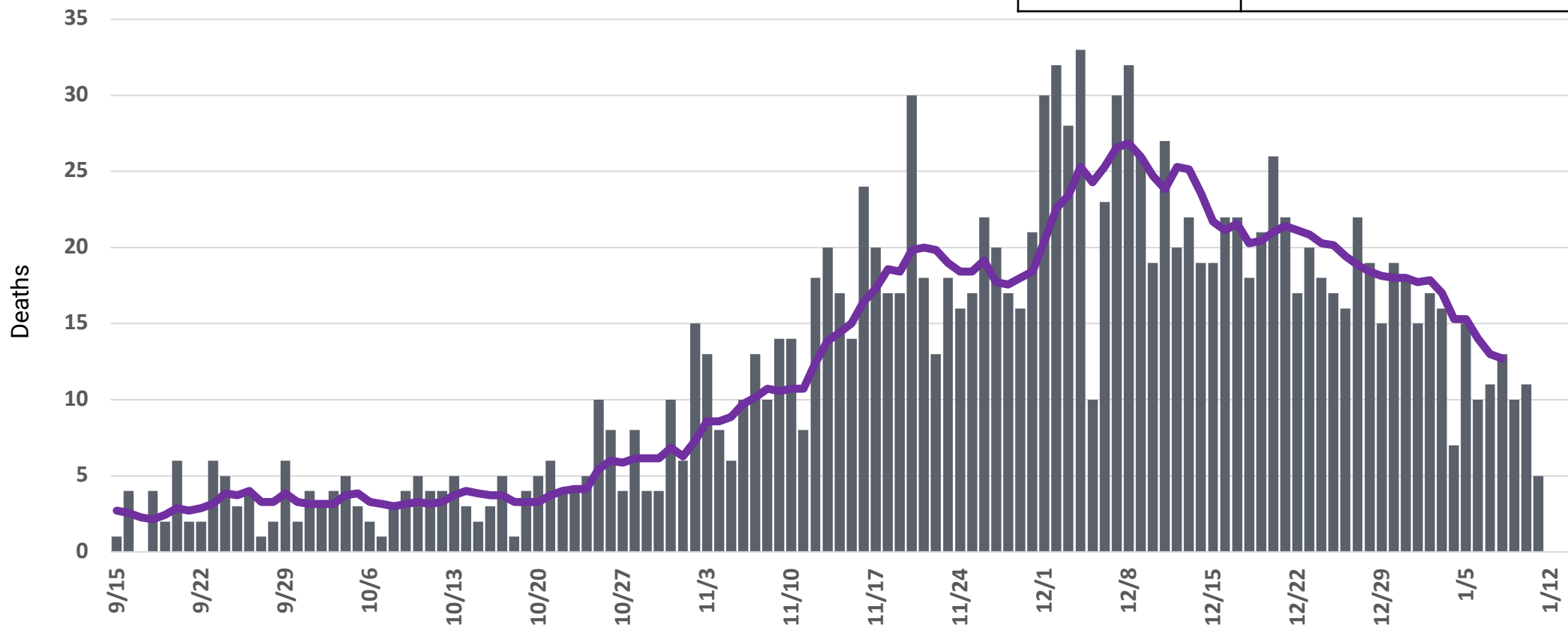
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# 1,306 deaths in second surge. Remains >10 per day



COVID-19 deaths, daily counts and rolling 7-day average, deceased date

Recent trend	Decreasing 17 days (12/22/20-1/8/21)
Cumulative deaths by surge	Current surge: 1,306 (10/25-1/8/21) First surge: 2,382 (3/25-6/8/20)



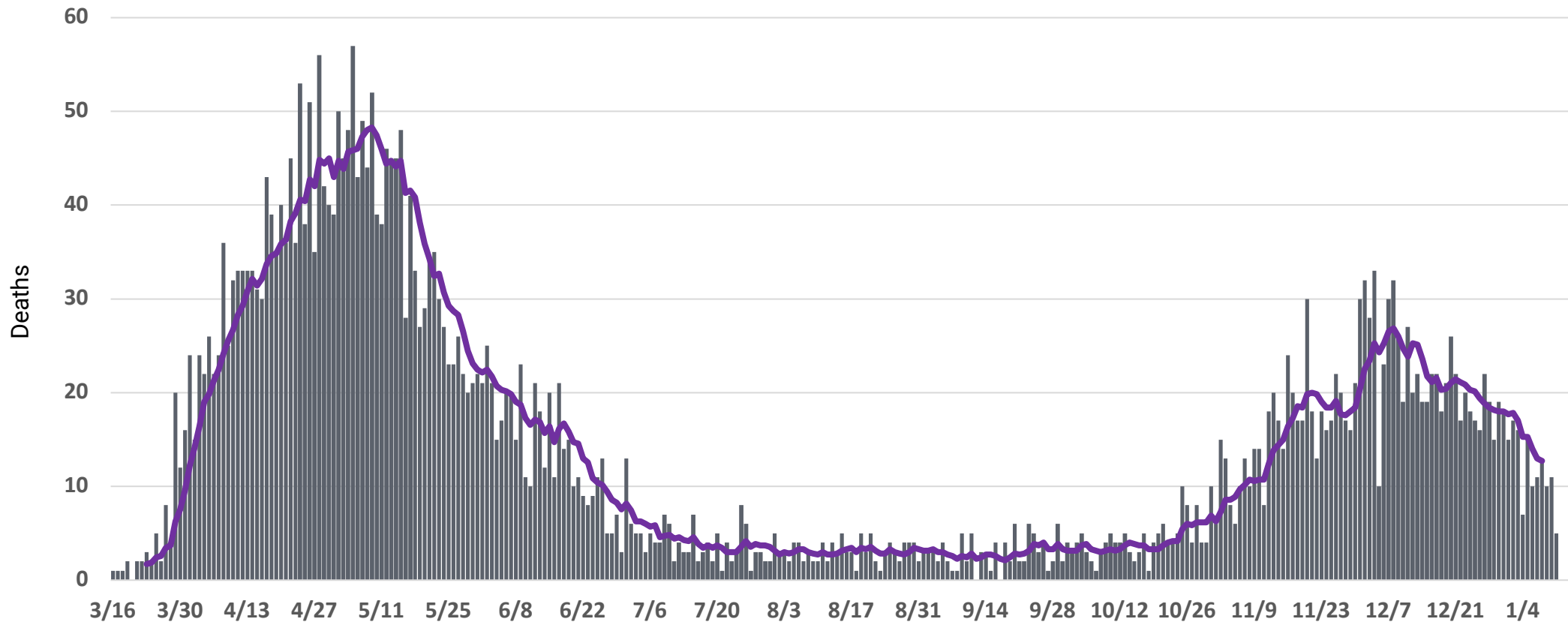
Daily COVID-19 deaths reported for Chicago residents with known death date. Data source: INEDSS. Daily counts for most recent dates displayed are likely incomplete.

# COVID-19 deaths are on pace to surpass half of the deaths in first surge.



COVID-19 deaths, daily counts and rolling 7-day average, deceased date

Peak 7-day rolling average	48 avg. daily deaths 5/9/2020
Cumulative deaths by surge	Current surge: 1,306 (10/25-1/8/21) First surge: 2,382 (3/25-6/8/20)



Daily COVID-19 deaths reported for Chicago residents with known death date. Data source: INEDSS. Daily counts for most recent dates displayed are likely incomplete.

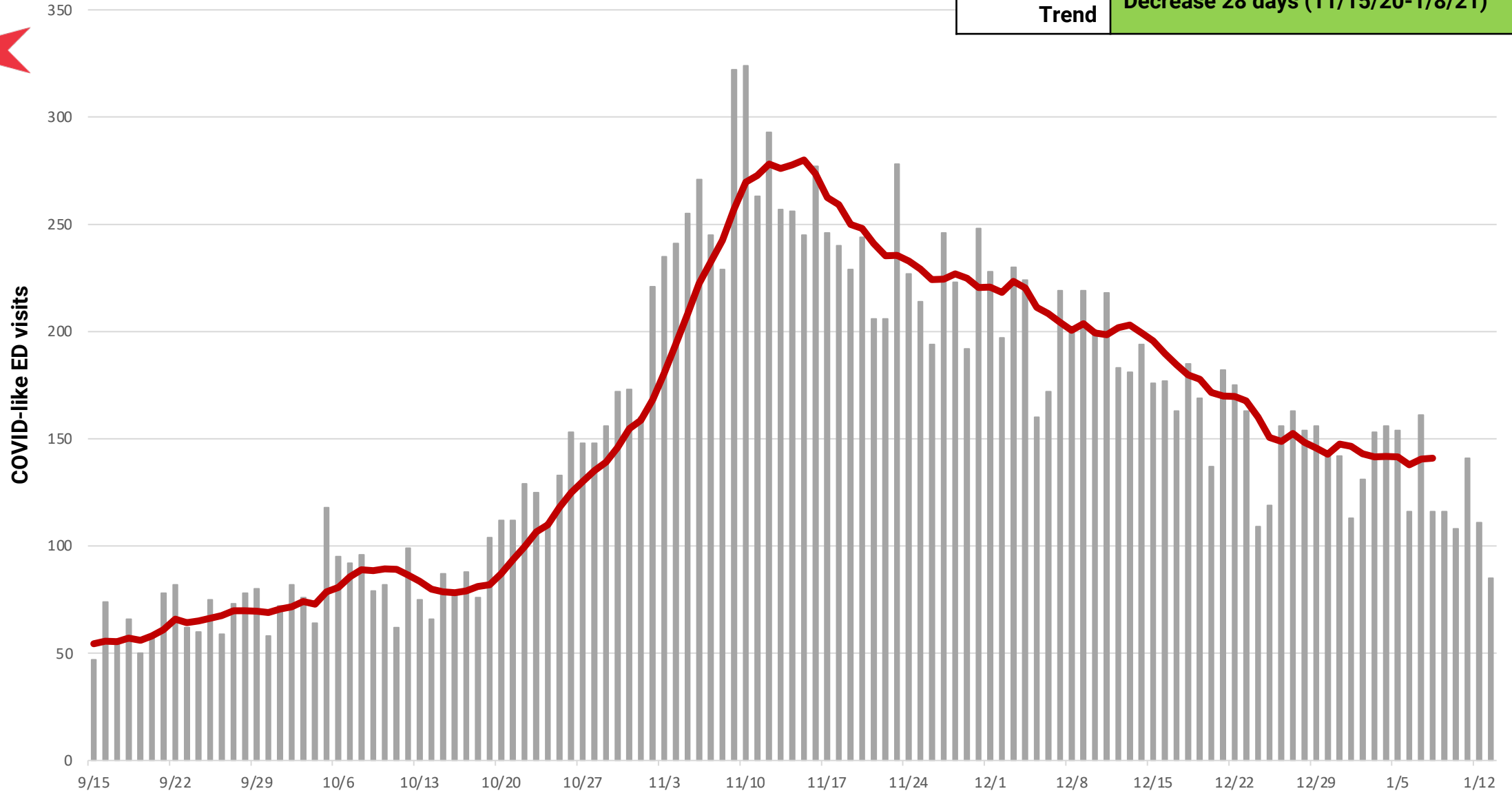


# Emergency Department Visits

# ED visits for COVID-like illness have been stable or decreasing for 54 days.



Recent Trend: Decrease 28 days (11/15/20-1/8/21)



Percentage of all emergency department visits reported with COVID-like symptoms among Chicago residents.  
Data Source: Illinois Hospital Emergency Departments reporting to CDPH through the National Syndromic Surveillance Project.



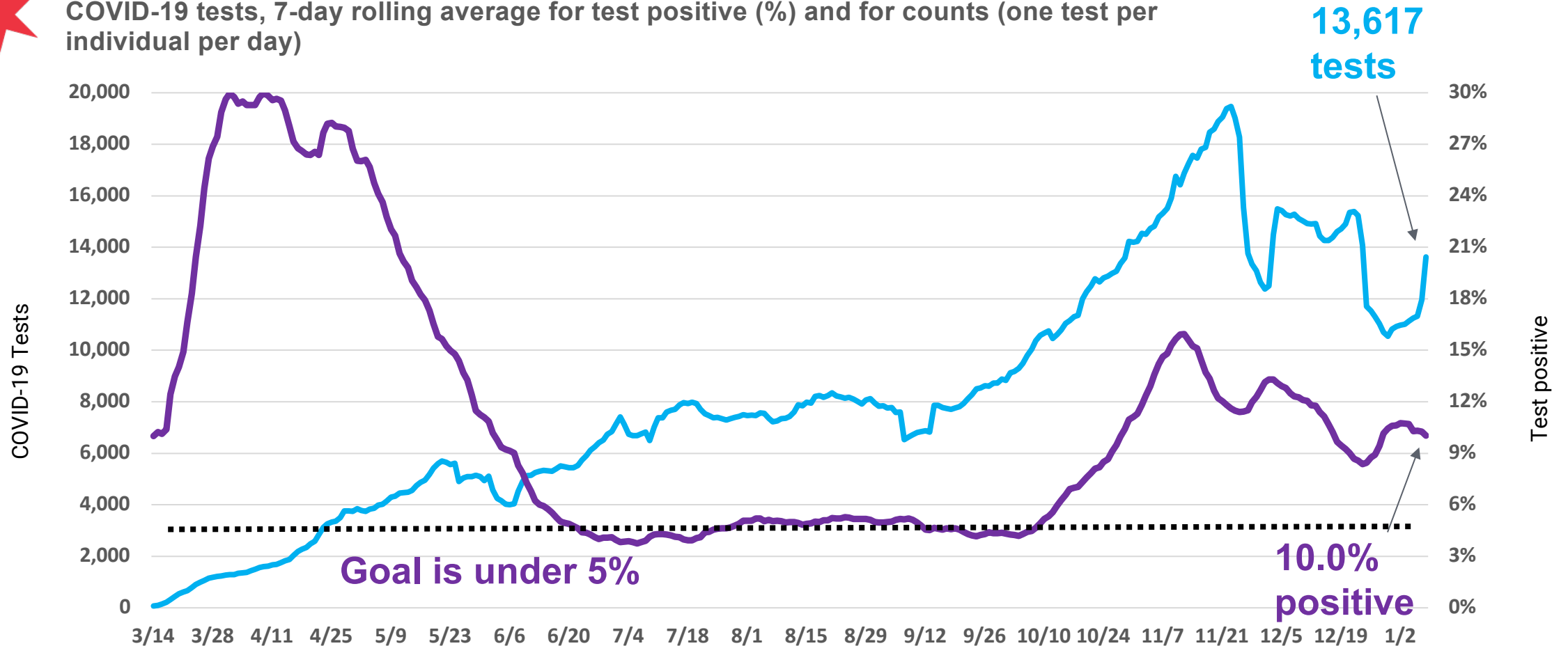


# Test Positivity

# Test positivity and testing count have varied greatly over the entire duration of the epidemic.



COVID-19 tests, 7-day rolling average for test positive (%) and for counts (one test per individual per day)



Test positivity is the number of positive tests divided by all tests performed (Source: INEDSS).

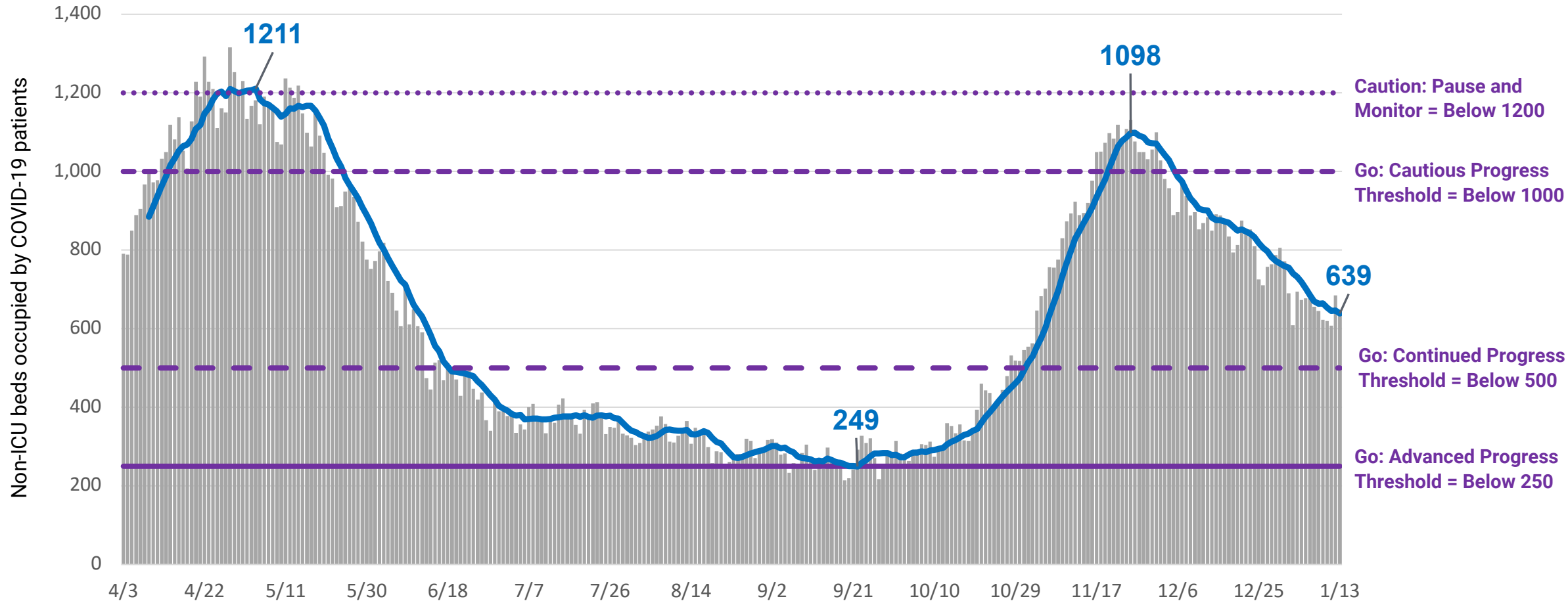


# Hospital System Capacity

# Non-ICU bed occupancy from COVID-19 in Surge 2 reached 91% of Surge 1 peak occupancy and has been declining since 11/25.



COVID-19 acute/non-ICU beds occupied, daily counts, 7 day average and reopening threshold, daily occupancy census (04/03/2020-01/13/2021)

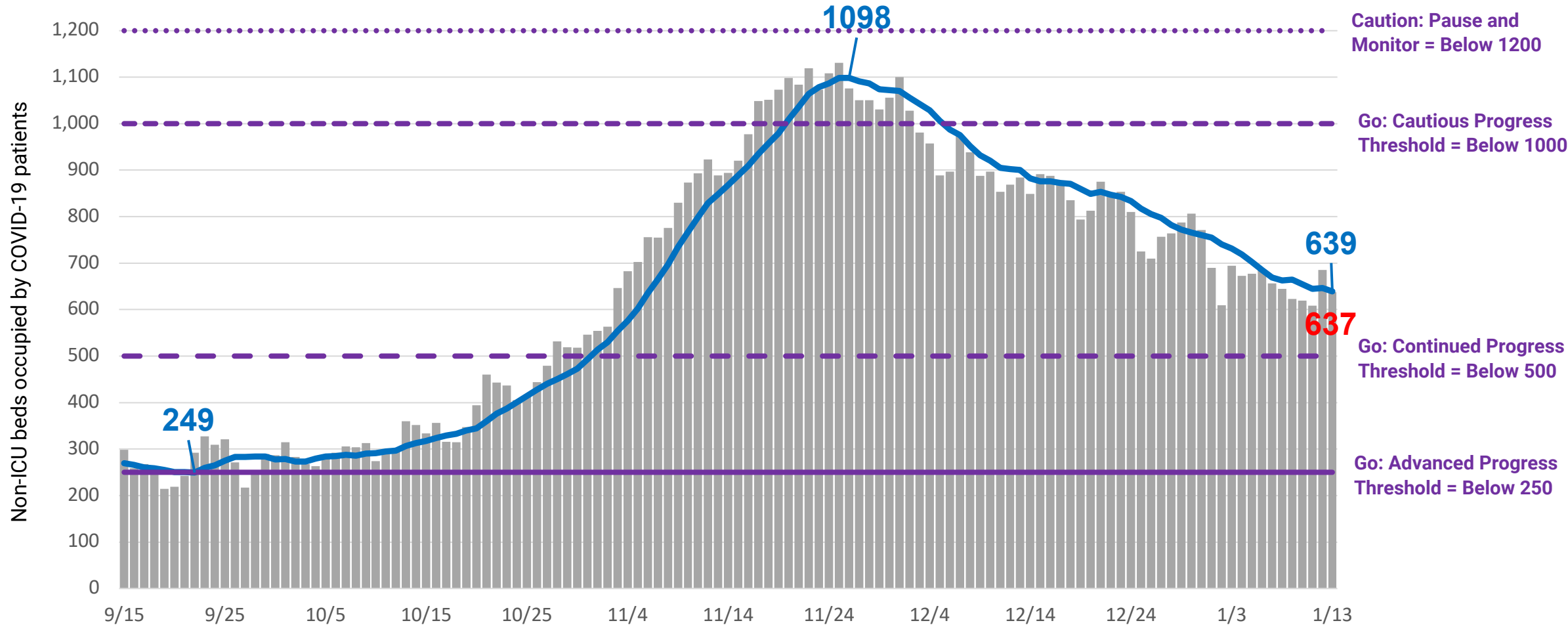


Includes all Chicago hospitals. Hospitals report daily to CDPH via EMResource, beginning April 3 (acute non-ICU occupancy). Acute non-ICU bed counts include burn, emergency department, med/surg, other, pediatrics and psychiatry beds in Chicago hospitals. Includes Chicago and non-Chicago residents. Includes confirmed and suspected COVID-19 cases.

# Non-ICU bed occupancy from COVID-19 remains high but has been declining since 11/25. Now at Go: Cautious Progress



COVID-19 acute non-ICU beds occupied, daily counts, 7 day average and reopening threshold, daily occupancy census (9/15/2020-01/13/2021)

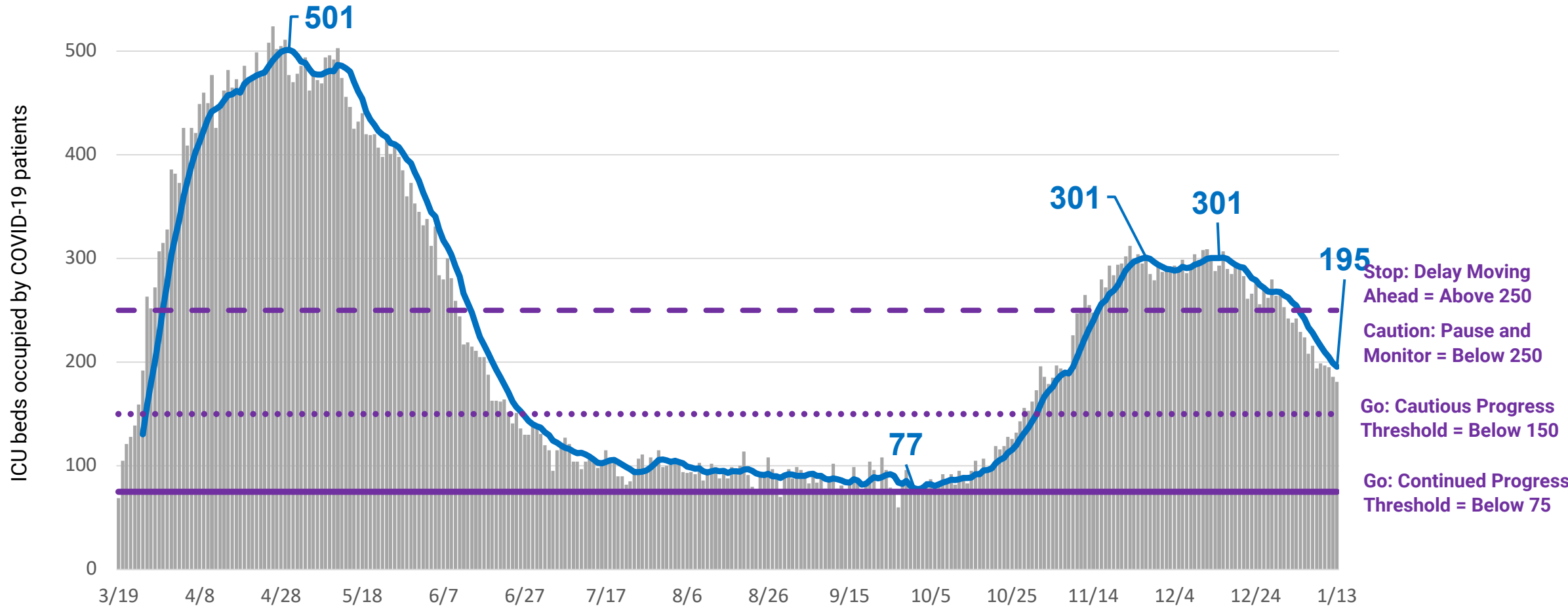


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# ICU occupancy from COVID-19 in Surge 2 reached 60% of Surge 1 peak occupancy and has been declining since 12/15.



COVID-19 ICU beds occupied, daily counts, 7 day average and progress threshold, daily occupancy census (03/13/2020 - 01/13/2021)

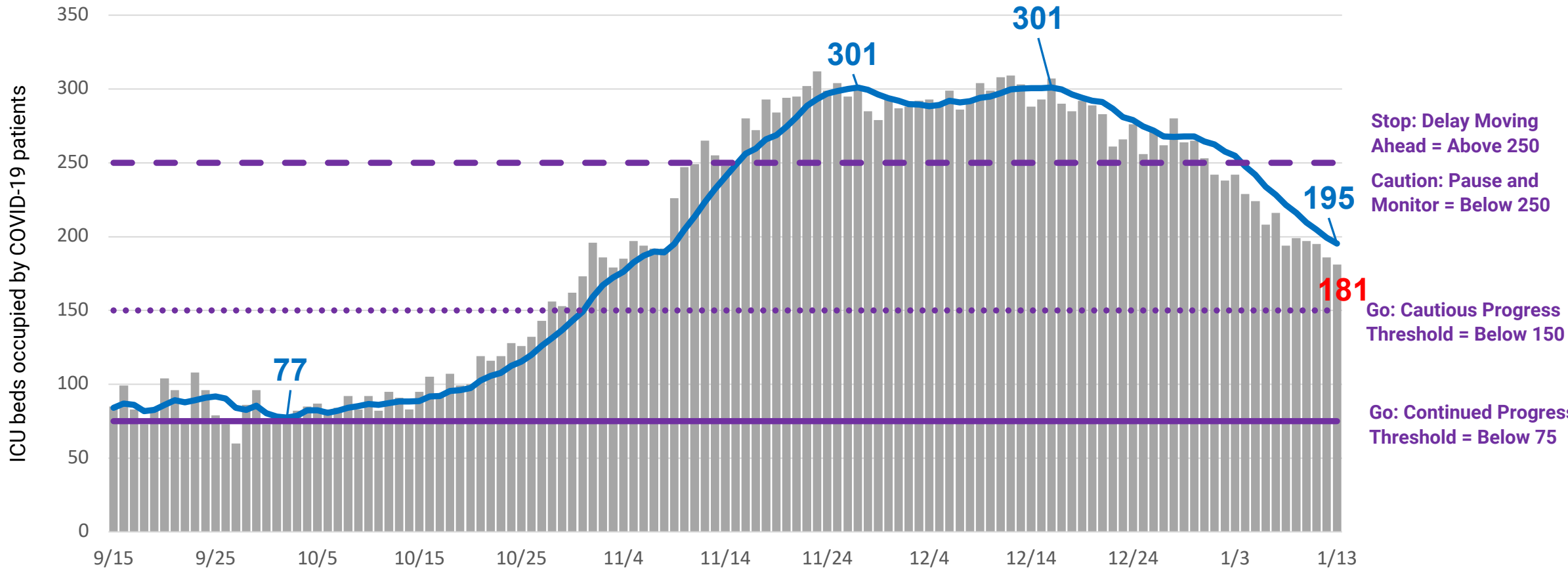


Includes all Chicago hospitals. Hospitals report daily to CDPH via EMResource, beginning March 19. ICU bed count includes all adult and pediatric ICU beds in Chicago hospitals. Includes Chicago and non-Chicago residents. Includes confirmed and suspected COVID-19 cases. Beginning 4/24/2020, the definition of ICU status changed as requested by HHS.

# ICU occupancy from COVID-19 remains high but has been declining since 12/15. Now at Caution: Pause and Monitor.



COVID-19 ICU beds occupied, daily counts, 7 day average and progress threshold, daily occupancy census (09/15/2020 - 01/13/2021)

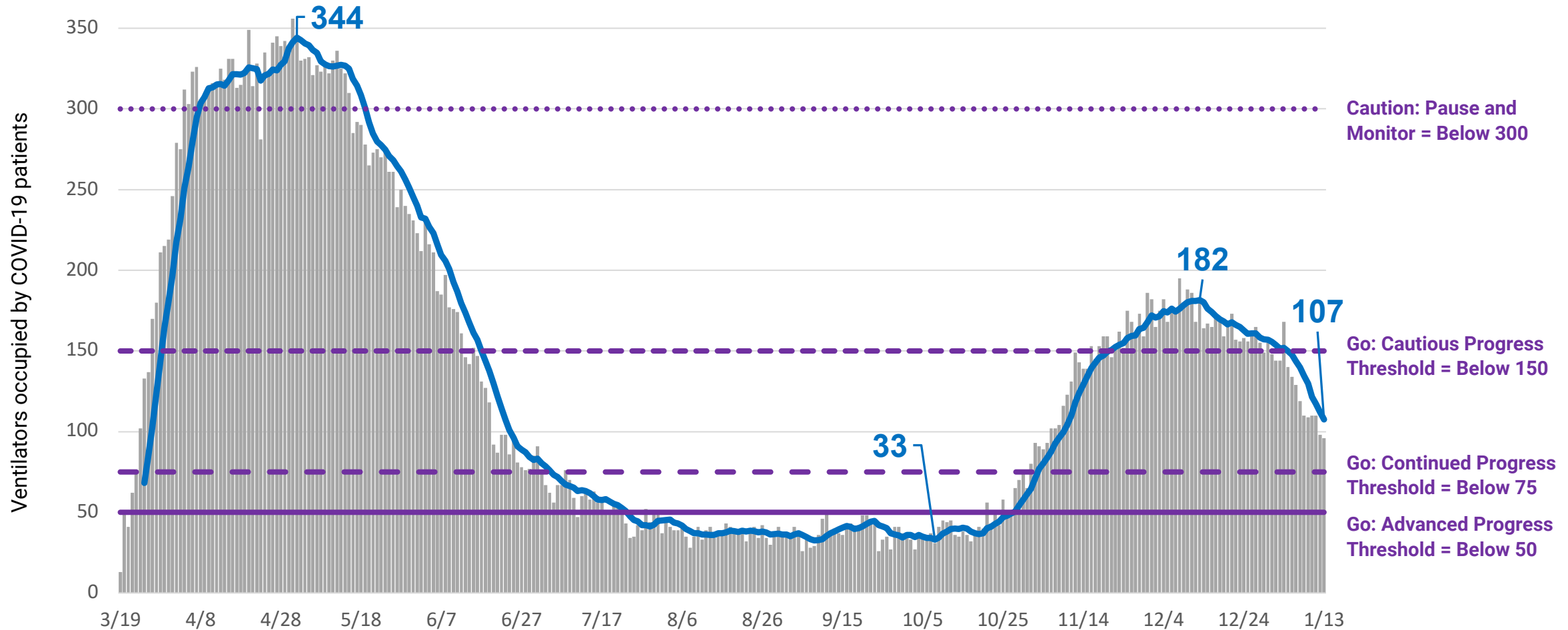


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# Ventilator utilization from COVID-19 in Surge 2 reached 53% of Surge 1 peak utilization and has been declining since 12/13.



COVID-19 ventilators in use, daily counts, 7 day average and reopening threshold, daily utilization census (3/19/2020-01/13/2021)



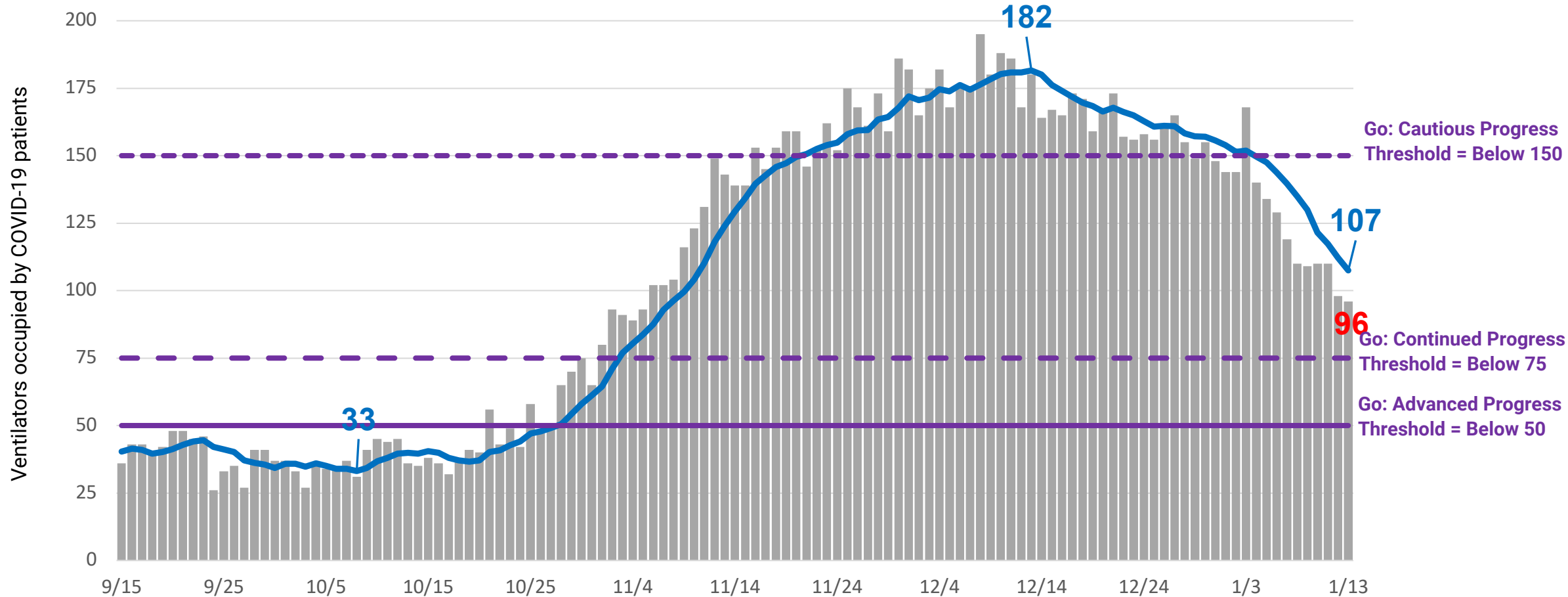
Includes all Chicago hospitals. Hospitals report daily to CDPH via EMResource, beginning March 19. Includes Chicago and non-Chicago residents. Includes confirmed and suspected COVID-19 cases. Beginning 4/24/2020, ventilator counts include all full-functioning mechanical ventilators, BiPAP, anesthesia machines and portable/transport ventilators.



# Ventilator utilization from COVID-19 has been declining since 12/13 (faster declines since 1/5), Now at Go: Cautious Progress



COVID-19 ventilators in use, daily counts, 7 day average and reopening threshold, daily utilization census (9/15/2020-01/13/2021)



Includes all Chicago hospitals. Hospitals report daily to CDPH via EMResource, beginning March 19. Includes Chicago and non-Chicago residents. Includes confirmed and suspected COVID-19 cases. Beginning 4/24/2020, ventilator counts include all full-functioning mechanical ventilators, BiPAP, anesthesia machines and portable/transport ventilators.