COVID-19 Data Report

Data through January 13, 2022

Updated January 14, 2022

Update Schedule: Every Monday, Wednesday and Friday (excluding holidays) by 3pm

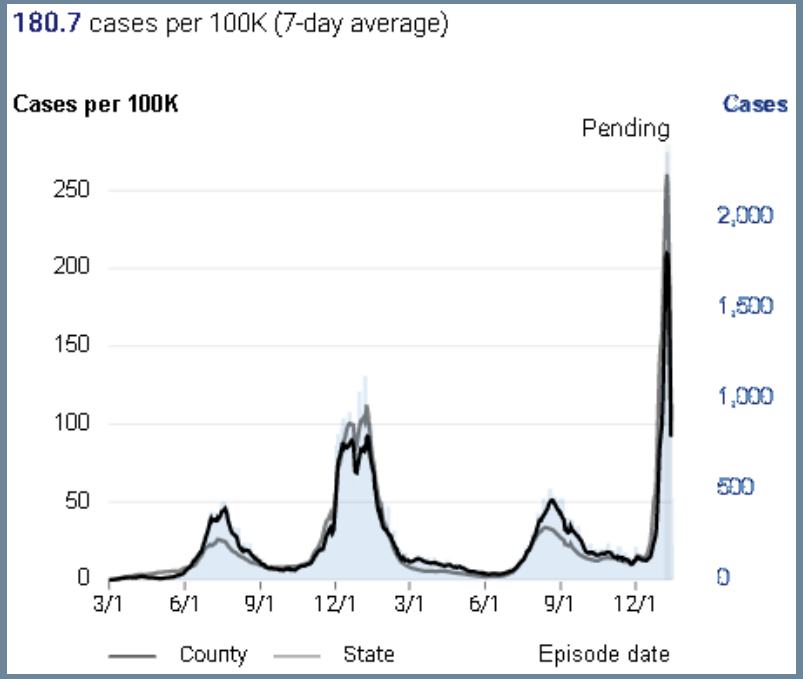
Report produced by: San Joaquin County, Public Health Services, Epidemiology

San Joaquin County
Public Health Services
health grows here

Total Number of Cases and Deaths

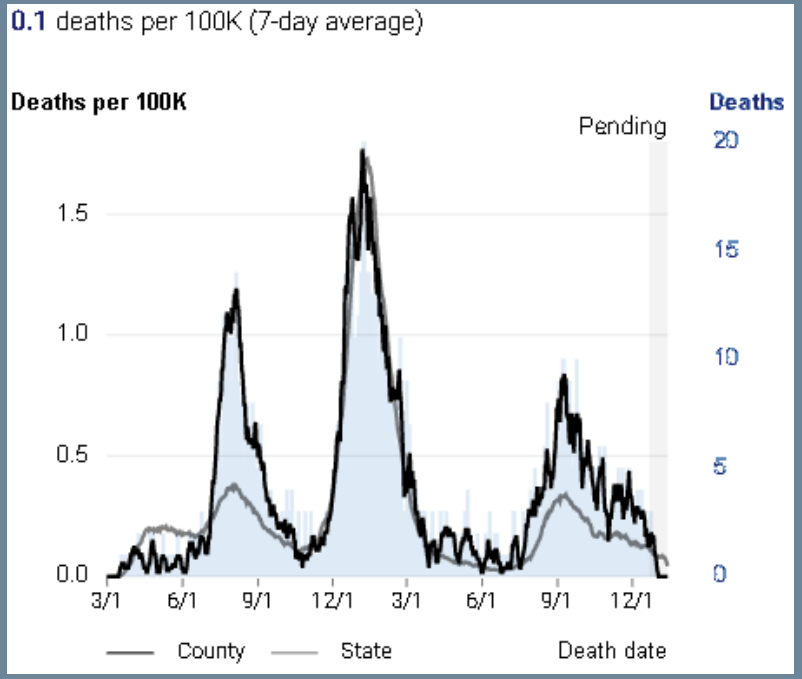
Total Cases

- **Total Number of Cases: 119,994**
- **Total New Cases Since Previous Report: 1,239**



Total Deaths

- **Total Number of COVID-19 Related Deaths: 1,956**
- **Total New Deaths Since Previous Report: 9**



Note: Case and Death Totals presented without lag. Case rate is based on a 7-day average with a 7-day lag. Rates of deaths is based on a 7-day average with a 21-day lag due to delays in receiving death certificates. Directional change is compared to the prior 7-day period Data is provided by the California Department of Public Health. The total number of cases and deaths noted here is since the beginning of the pandemic on March 1, 2020. Total new cases and new deaths are the difference between the updated weekly report and the previous report. Source: https://covid19.ca.gov/state-dashboard/

There are currently Data transmission issues causing major delays in case counts due to such a large influx of cases. This is an issue that is affecting other counties as well. We are currently reporting all available data until the issue is resolved.

Cases and Deaths by Jurisdiction

Jurisdiction	Case Total	New Cases	Death Total	New Deaths	Case Rate per 10K (Total)
Unincorporated	20,851	213	332	1	1,237.7
Escalon	1,211	11	19	0	1,619.4
Lathrop	3,993	44	33	0	1,488.1
Lodi	10,354	53	214	0	1,524.2
Manteca	11,377	103	183	2	1,341.6
Ripon	2,260	22	29	0	1,418.7
Stockton	49,955	489	971	6	1,568.3
Tracy	13,189	196	116	0	1,374.8

Note: New cases and deaths are new reports that were received since the last update. The total number of cases and deaths noted here is since the beginning of the pandemic on March 1, 2020.

Cases and Deaths by ZIP Code (1 of 2)

Zip Code	Case Count	New Cases	Death Count	New Deaths	Case Rate per 10K (Total)
95202	1,048	4	40	0	1,448.1
95203	2,559	18	45	0	1,448.5
95204	4,716	38	105	1	1,489.0
95205	6,692	61	149	0	1,558.7
95206	11,764	116	195	2	1,604.9
95207	8,107	84	192	1	1,526.8
95209	7,123	83	121	2	1,591.4
95210	6,519	67	133	1	1,472.0
95211	10	0	0	0	43.3
95212	4,574	36	61	0	1,608.0
95215	3,675	30	72	0	1,386.7
95219	3,736	52	54	0	1,184.1
95220	864	4	16	0	1,074.4
95227	89	2	1	0	790.4
95230	50	2	1	0	952.4
95231	646	4	15	0	1,305.1
95234	0	0	0	0	0.0
95236	566	8	9	0	1,173.5
95237	492	1	6	0	1,385.9

Note: New cases and deaths are new reports that were received since the last update. The total number of cases and deaths noted here is since the beginning of the pandemic on March 1, 2020.

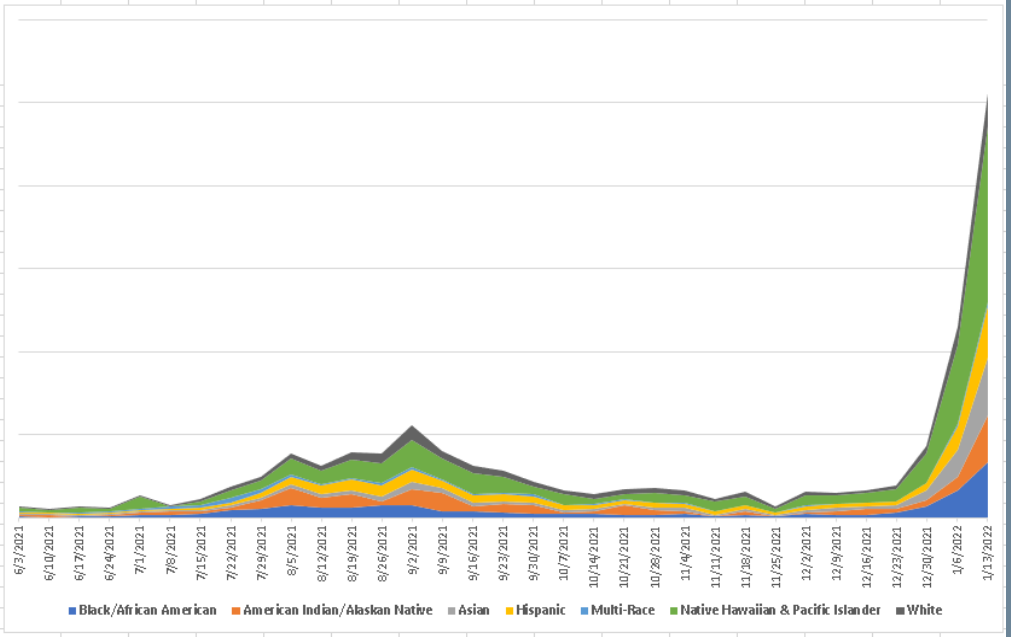
Cases and Deaths by ZIP Code (2 of 2)

Zip Code	Case Count	New Cases	Death Count	New Deaths	Case Rate per 10K (Total)
95240	7,994	42	192	0	1,500.1
95242	3,664	21	50	0	1,275.5
95253	0	0	0	0	0.0
95254	0	0	0	0	0.0
95258	606	0	10	0	1,446.6
95304	1,932	27	14	0	1,117.6
95320	1,886	16	27	0	1,321.9
95330	4,034	45	34	0	1,998.0
95336	6,270	59	114	1	1,303.8
95337	5,997	55	85	1	1,682.8
95361	50	0	2	0	822.4
95366	2,535	24	30	0	1,362.2
95367	2	0	0	0	606.1
95376	8,016	97	90	0	1,416.2
95377	4,738	96	24	0	1,355.3
95391	1,979	38	6	0	842.0
95632	117	1	1	0	790.5
95686	140	0	3	0	920.4

Note: New cases and deaths are new reports that were received since the last update. The total number of cases and deaths noted here is since the beginning of the pandemic on March 1, 2020.

Case Rate Over Time by Race/Ethnicity

				Race/Ethnicity			
Date	Black/African American	American Indian/Alaskan Native	Asian	Hispanic	Multi-Race	Native Hawaiian & Pacific Islander	White
6/3/2021	42	25.3	21.1	32.1	34.7	104.7	21.6
6/10/2021	21.9	50.6	17	31.8	19.3	52.3	21.2
6/17/2021	53	0	20.3	27.2	27	130.9	22.4
6/24/2021	51.2	25.3	24.3	26.8	42.4	52.3	19.2
7/1/2021	60.3	75.9	26	28.4	42.4	287.9	21.2
7/8/2021	67.6	101.1	21.9	30.3	46.2	26.2	25.6
7/15/2021	104.2	50.6	34.9	53.4	65.5	104.7	51.9
7/22/2021	182.7	75.9	55.2	62.4	119.4	183.2	61.5
7/29/2021	228.4	202.3	63.3	102.7	88.6	209.4	88.6
8/5/2021	303.4	429.8	77.9	167.6	80.9	366.4	126.2
8/12/2021	250.4	227.6	92.5	199.4	30.8	340.2	119.8
8/19/2021	259.5	303.4	112.8	244	34.7	444.9	178.5
8/26/2021	301.5	101.1	123.3	268.1	38.5	497.3	217.6
9/2/2021	323.5	379.3	179.3	298.3	57.8	628.1	356.6
9/9/2021	160.8	455.1	106.3	191.6	23.1	497.3	169.3
9/16/2021	175.4	101.1	80.3	188.2	23.1	523.4	172.9
9/23/2021	126.1	202.3	73	175.7	23.1	392.6	157.3
9/30/2021	107.8	202.3	73	137.6	42.4	183.2	138.2
10/7/2021	95	25.3	74.7	108.9	15.4	261.7	95.4
10/14/2021	93.2	75.9	44.6	89.3	27	130.9	107.4
10/21/2021	74.9	227.6	43	93.3	19.3	130.9	109.4
10/28/2021	73.1	126.4	63.3	101.1	3.9	235.5	107.4
11/4/2021	96.9	75.9	72.2	107.4	15.4	183.2	129.4
11/11/2021	51.2	0	33.3	65.2	7.7	235.5	60.7
11/18/2021	78.6	75.9	60.9	97.4	7.7	209.4	114.2
11/25/2021	34.7	0	47.1	45.3	0	104.7	46.3
12/2/2021	100.5	25.3	69	86.4	19.3	235.5	94.2
12/9/2021	73.1	101.1	82	79	19.3	183.2	69.9
12/16/2021	65.8	151.7	73.8	65.2	3.9	235.5	73.5
12/23/2021	120.6	101.1	96.6	82.1	11.6	287.9	92.6
12/30/2021	279.6	151.7	226.4	181.9	11.6	706.6	168.9
1/6/2022	674.3	303.4	674.4	546.1	61.6	1910.5	443.6
1/13/2022	1341.3	1137.8	1391.7	1229.9	84.7	4239.7	823.8

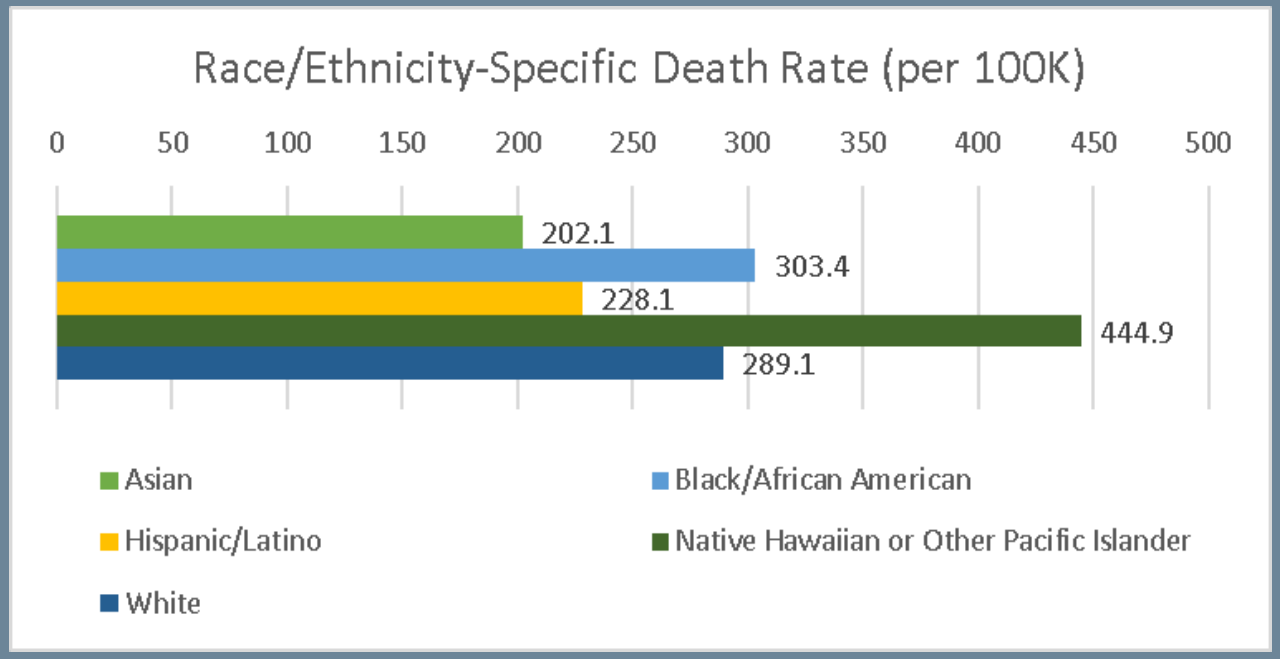


Notes: 7-day case rate (episode date with no lag). This stacked area shows the magnitude of change over time and to draw attention to total cases over time. American Indian/Alaskan Native and Native Hawaiian/Other Pacific Islander are now included in the graph , which has affected the color legend. Additionally, these race/ethnicity populations have unstable rates so use caution when interpreting their results.

- **In August, there was an increase in case rate among our most prominent race/ethnicity populations within our County. (i.e. White, Hispanic)**
- **Since the beginning of September there has been a steady decrease in case rate among all race/ethnicity populations.**
- **In the end of October and into the beginning of November the was a slight increase in case rate among most race/ethnicity groups, which has since decreased.**
- **Since the end of November, there has been an increase in case rate among most race/ethnicity populations.**

Deaths by Race/Ethnicity

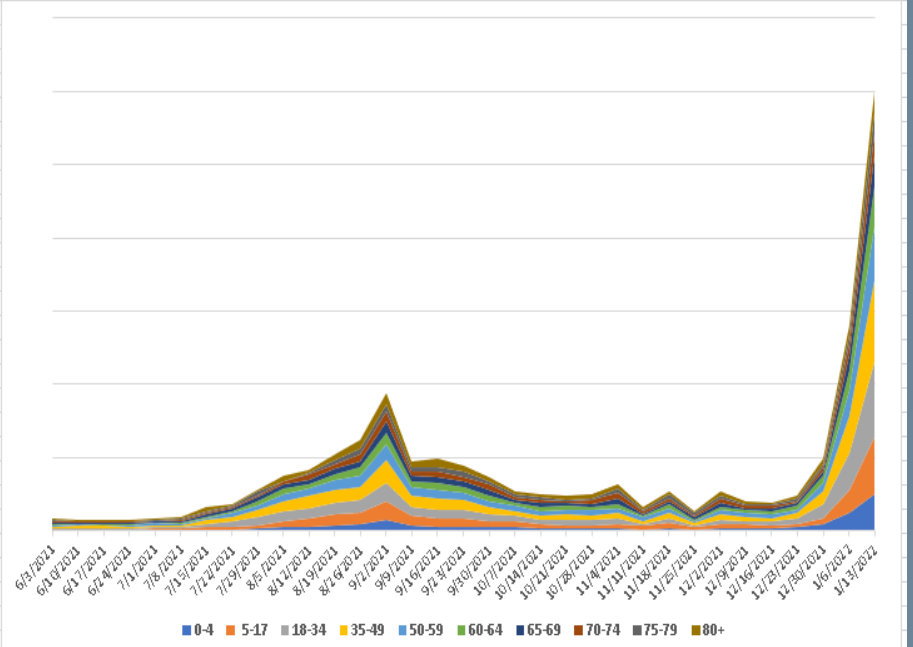
Race/Ethnicity	% Pop	Total Deaths	% Deaths
Asian	15.7	249	12.7
Black/African American	7.0	166	8.5
Hispanic/Latino	40.9	731	37.4
Native Hawaiian or Other Pacific Islander	0.5	17	0.9
White	32.0	724	37.0



Note: The total number of deaths noted here is since the beginning of the pandemic on March 1, 2020. The Native Hawaiian or Other Pacific Islander population has an unstable rate so use caution when interpreting their results.

Case Rate Over Time by Age Group

	Age Group									
Date	0-4	5-17	18-34	35-49	50-59	60-64	65-69	70-74	75-79	80+
6/3/2021	12.5	21.8	50.5	45	27.9	44.4	32.1	29.3	36.2	36.6
6/10/2021	14.6	20.5	52	49.9	34.3	28.1	26.3	22	20.7	40.7
6/17/2021	6.2	24.5	55	47.8	31.1	35.1	38	18.3	15.5	40.7
6/24/2021	12.5	27.3	45.1	40.9	18.2	42.1	35	29.3	25.9	36.6
7/1/2021	29.1	27.3	56.9	51.9	47.2	28.1	11.7	22	41.4	32.6
7/8/2021	22.9	34.8	50.5	48.5	40.8	30.4	52.6	32.9	31.1	20.4
7/15/2021	47.8	49.8	102.5	90	61.2	49.1	49.6	54.9	41.4	89.6
7/22/2021	43.7	75.7	140.1	127.4	100.9	65.5	46.7	51.2	41.4	40.7
7/29/2021	70.7	90	207.4	193.2	129.9	107.5	122.6	62.2	93.2	52.9
8/5/2021	101.9	170.5	274.3	275.6	186.8	140.3	119.7	87.8	15.5	130.3
8/12/2021	122.7	221.6	290.1	319.2	200.7	140.3	113.9	128.1	67.3	73.3
8/19/2021	166.3	283.7	333.7	326.8	264	184.7	137.2	142.7	93.2	146.6
8/26/2021	172.6	331.4	339.6	369.1	300.5	219.8	181	179.3	155.3	240.2
9/2/2021	291.1	518.2	509.4	607.3	428.3	320.3	309.5	267.2	217.4	297.2
9/9/2021	131	274.8	249	301.9	231.8	168.3	151.8	109.8	113.9	175.1
9/16/2021	124.7	227.7	234.2	304	231.8	194.1	154.7	142.7	139.8	203.6
9/23/2021	124.7	232.5	226.3	256.9	184.6	156.6	166.4	109.8	150.1	166.9
9/30/2021	101.9	175.9	179.7	210.5	159.9	154.3	146	135.4	72.5	142.5
10/7/2021	118.5	150.7	133.2	148.9	124.5	102.9	73	73.2	62.1	89.6
10/14/2021	66.5	120.7	114.4	135	111.6	116.9	125.6	43.9	88	73.3
10/21/2021	56.1	110.5	127.2	160	126.7	109.9	70.1	47.6	51.8	101.8
10/28/2021	56.1	112.5	122.8	142	129.9	74.8	108	106.1	51.8	109.9
11/4/2021	62.4	135	130.7	172.4	123.4	123.9	140.2	161	108.7	122.1
11/11/2021	49.9	80.5	72.3	82.4	78.4	39.7	58.4	62.2	51.8	61.1
11/18/2021	87.3	143.2	132.2	142.6	126.7	100.5	90.5	84.2	93.2	89.6
11/25/2021	37.4	54.5	53.5	67.2	65.5	44.4	67.2	47.6	62.1	57
12/2/2021	87.3	108.4	124.3	130.2	119.1	81.8	105.1	131.8	67.3	109.9
12/9/2021	72.8	115.9	93.1	118.4	83.7	112.2	35	76.9	41.4	69.2
12/16/2021	58.2	103.6	89.1	109.4	92.3	79.5	81.8	76.9	25.9	61.1
12/23/2021	97.7	88	150.5	159.3	94.5	112.2	87.6	36.6	67.3	52.9
12/30/2021	187.1	165	393.1	347.6	234	177.7	140.2	98.8	93.2	126.2
1/6/2022	515.6	623.9	986.2	1019.3	693.4	528.4	438	314.8	243.3	264.6
1/13/2022	995.8	1565.6	2055.6	2211.7	1486.6	1094.2	849.7	581.9	564.2	602.6

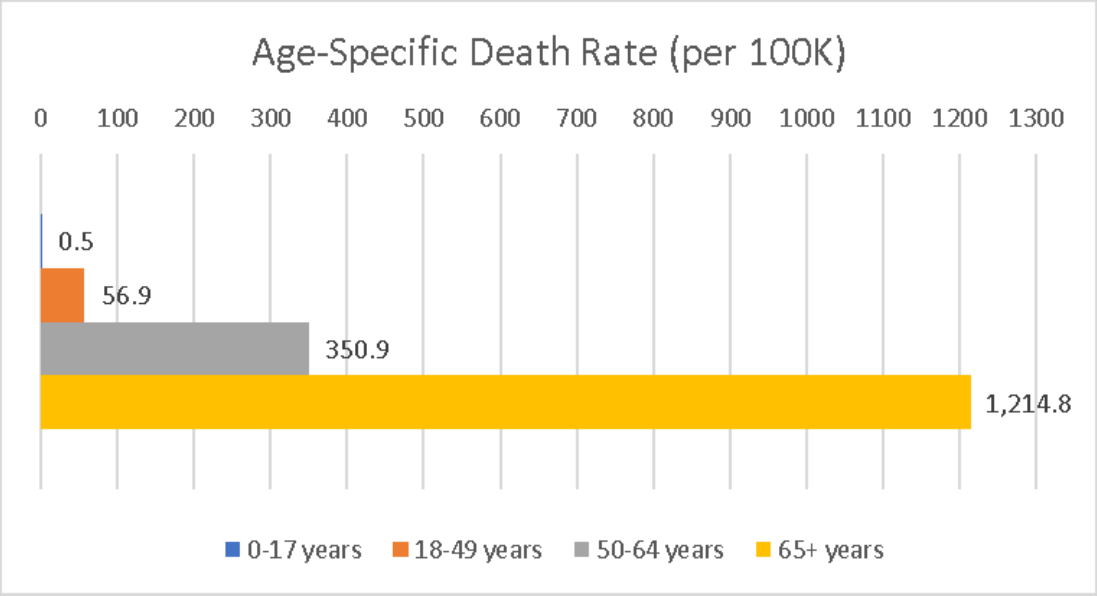


Note: 7-day case rate (episode date with no lag). This stacked area shows the magnitude of change over time and to draw attention to total cases over time.

- **In August, there was a dramatic increase in case rate for 5-17-year-olds within our County.**
- **Since the beginning of September there has been a steady decrease in case rate among all age groups.**
- **In the end of October and into the beginning of November the was a slight increase in case rate among most age groups, which has since decreased.**
- **Since the end of November, the case rate amongst all age groups has increased in December.**

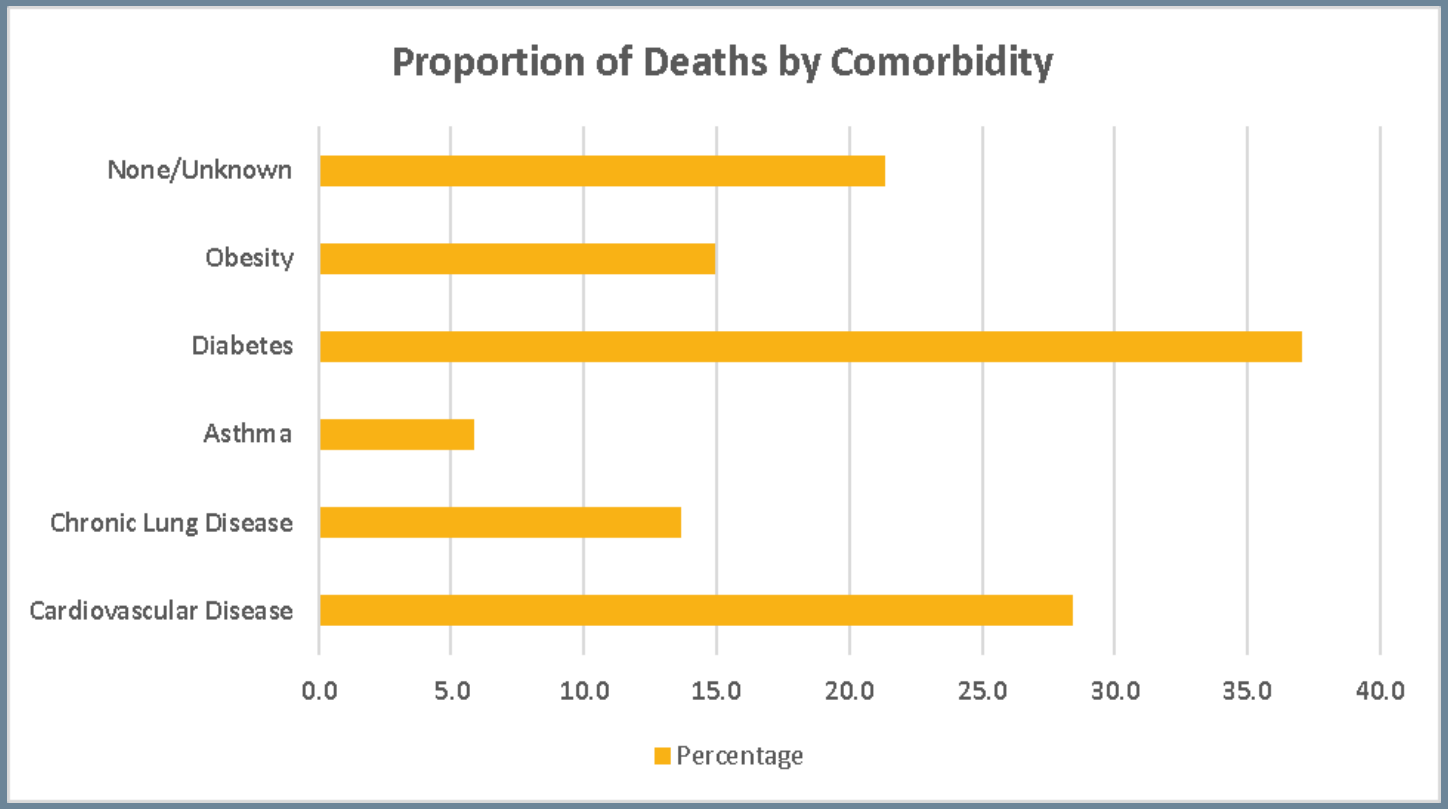
Deaths by Age Group

Age Group	% Pop	Total Deaths	% Deaths
0-17 years	24.9	1	0.1
18-49 years	44.3	197	10.1
50-64 years	17.4	477	24.4
65+ years	13.5	1281	65.5



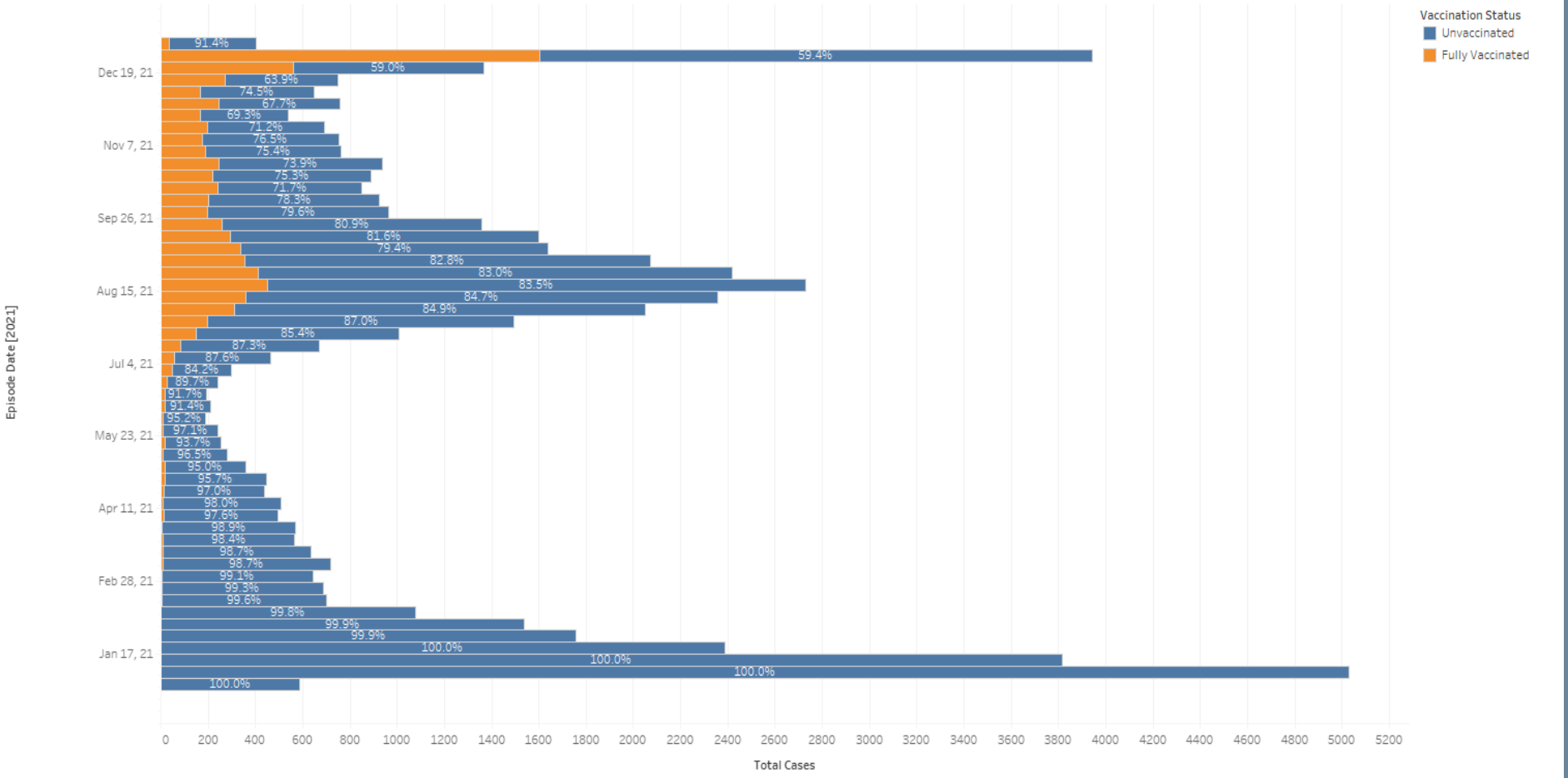
Note: The total number of deaths noted here is since the beginning of the pandemic on March 1, 2020.

Deaths by Comorbidities



Note: Will not total 100%. Cases may have more than one comorbidity.

Post-Vaccine Breakthrough Cases by Week

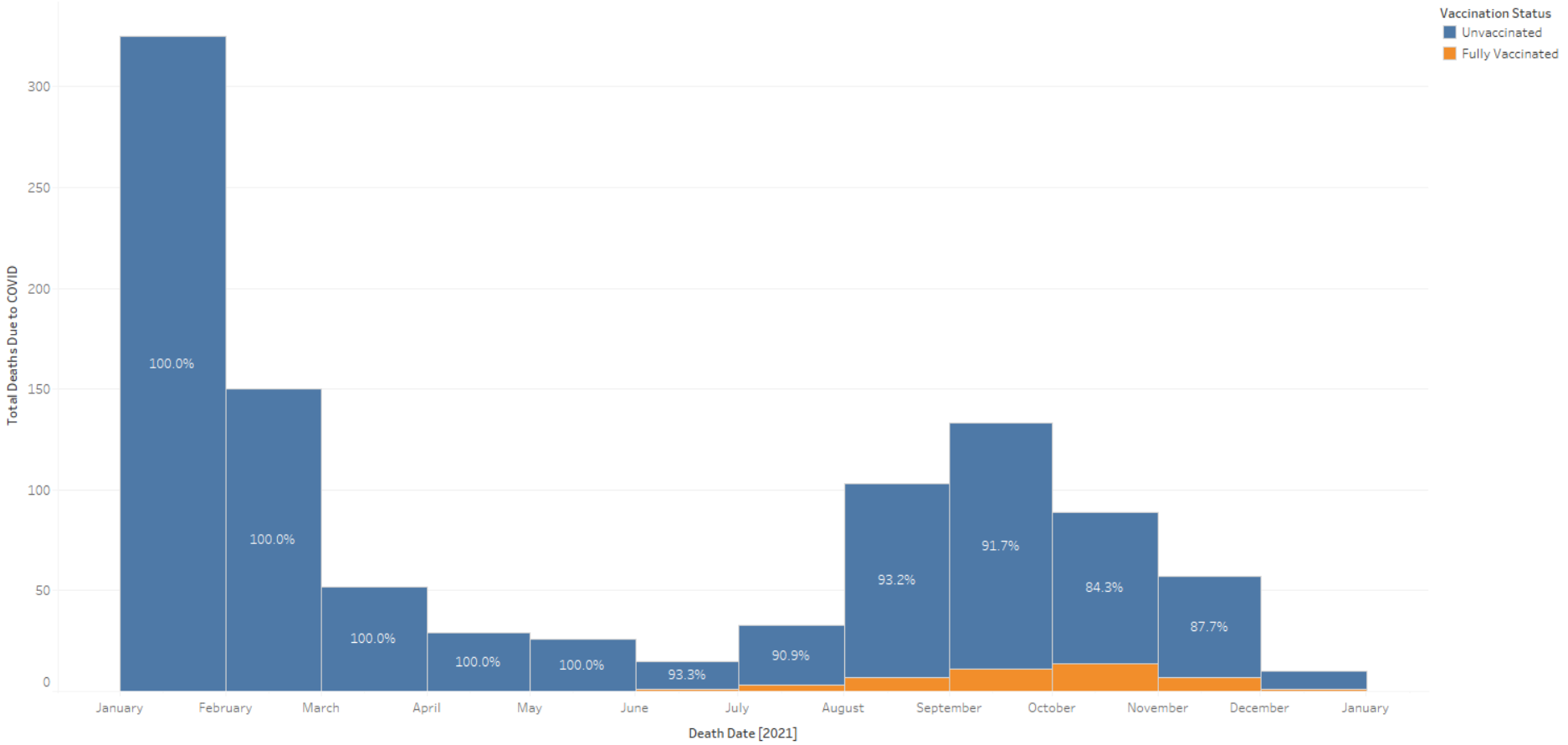


The plot of Total Cases for Episode Date Week. Color shows details about Vaccination Status. The marks are labeled by % of Total Cases, excluding Partially Vaccinated Cases. The data is filtered on Episode Date Year, which keeps 2021 and 2022.

Note: Case Vaccination Status determined by probabilistic matching of the immunization registry and case data, performed by the California Department of Public Health. Per the data provided by CDPH, the blue has been updated to only include Unvaccinated Cases. Partially Vaccinated Cases are not included in this data. Data through January 3, 2022. Updated every Friday.

- **The total case count grew in the week of December 26, 2021, with unvaccinated cases making up around 59% of the total.**
- **1.35% of our County's fully vaccinated population are breakthrough cases. (*This is not depicted in the graph above*)**
- **No updates for post-vaccine breakthrough cases this week as updated vaccination status data is currently unavailable.**

Post-Vaccine Breakthrough COVID-19 Related Deaths by Month



The plot of Total Deaths Due to COVID for Date of Death Month. Color shows details about Vaccination Status. The marks are labeled by % of Total Deaths Due to COVID, excluding Partially Vaccinated Cases. The data is filtered on Death Status, Date of Death Year, and COVID Death Status. The Death Status filter keeps Yes. The Date of Death Year filter keeps 2021 and 2022. The COVID Death Status filter keeps Yes.

Note: Case Vaccination Status determined by probabilistic matching of the immunization registry and case data, performed by the California Department of Public Health. Per the data provided by CDPH, the blue has been updated to only include Unvaccinated Cases. Partially Vaccinated Cases are not included in this data. Data through January 3, 2022. Updated every Friday.

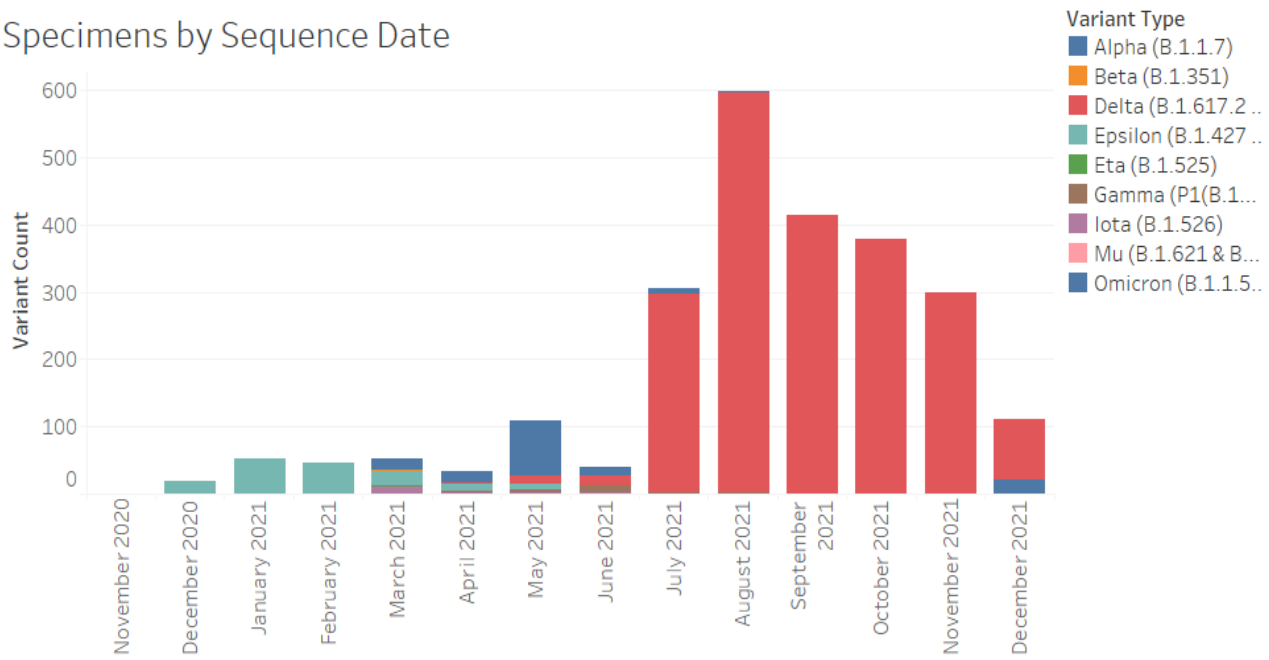
- **90% of the COVID-19 related deaths in December were unvaccinated San Joaquin County residents (excluding partially vaccinated cases).**
- **No updates for post-vaccine breakthrough cases this week as updated vaccination status data is currently unavailable.**

Variants of Interest/Concern

Total Variants

Alpha (B.1.1.7)	136
Beta (B.1.351)	1
Delta (B.1.617.2 & AY Lineages)	2,100
Epsilon (B.1.427 & B.1.429)	160
Eta (B.1.525)	1
Gamma (P1(B.1.1.28.1))	17
Iota (B.1.526)	21
Mu (B.1.621 & B.1.621.1)	4
Omicron (B.1.1.529)	21
Grand Total	2,461

Specimens by Sequence Date



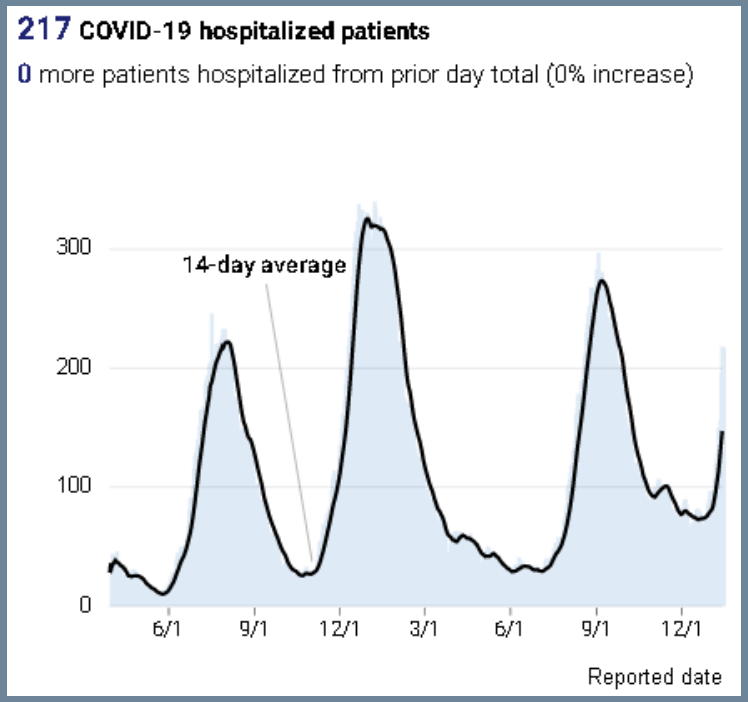
Variant Count by Type and Month

	November 2020	December 2020	January 2021	February 2021	March 2021	April 2021	May 2021	June 2021	July 2021	August 2021	September 2021	October 2021	November 2021	December 2021
Alpha (B.1.1.7)					17	17	80	13	8	1				
Beta (B.1.351)					1									
Delta (B.1.617.2 & AY Lineages)						1	13	15	294	594	414	378	300	90
Epsilon (B.1.427 & B.1.429)	1	19	52	47	22	11	8							
Eta (B.1.525)					1									
Gamma (P1(B.1.1.28.1))						1	5	9	1	1				
Iota (B.1.526)					12	4	2	3						
Mu (B.1.621 & B.1.621.1)									2	2				
Omicron (B.1.1.529)														21
Grand Total	1	19	52	47	53	34	108	40	305	598	414	378	300	111

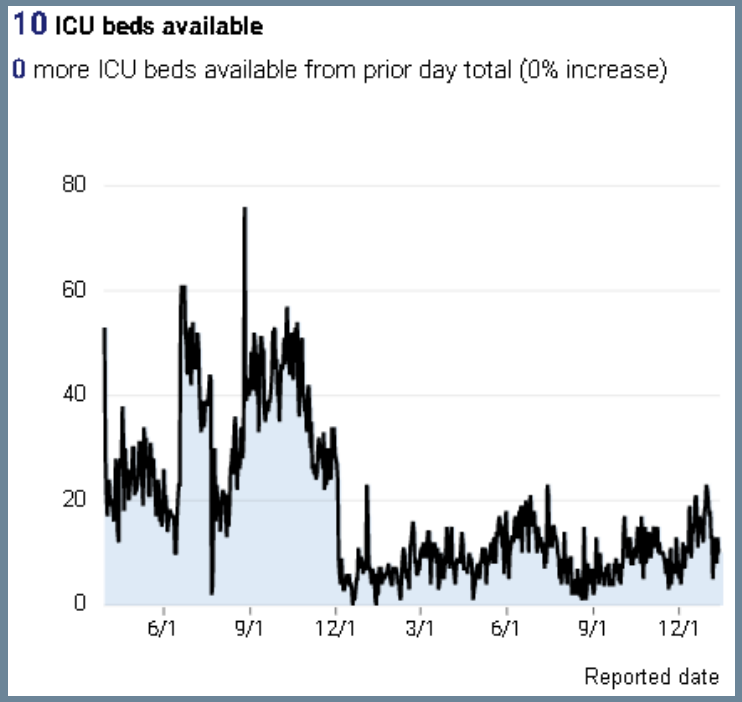
This slide includes only Electronic Lab Results. The data may differ from previous report since we are no longer counting manually entered results and only counting Electronic Labs results. There may be duplicate lab results that are currently being counted but are in the process of being cleaned from the data.

Total Hospitalizations and ICU Beds

Total Hospitalizations



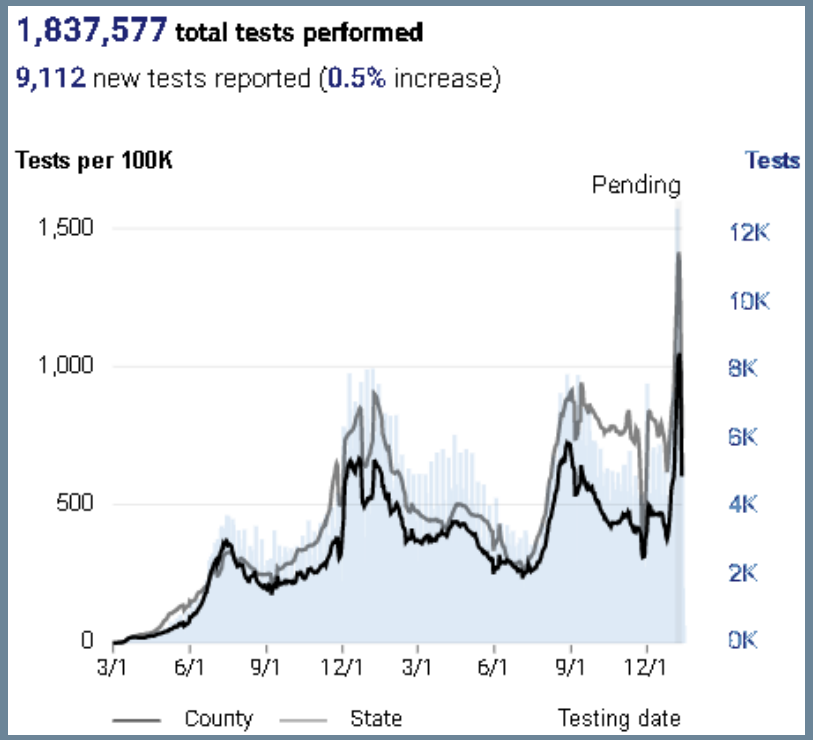
ICU Beds Available



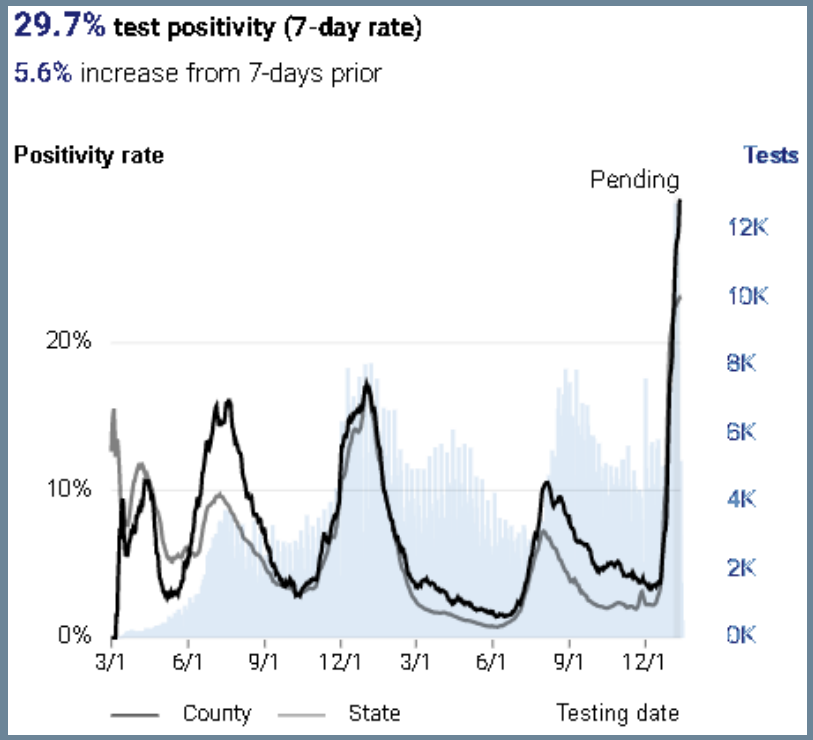
Note: Includes the number of licensed ICU beds and hospitalized patients in San Joaquin County, regardless of residency. Licensed ICU bed totals count the number of beds that can be staffed to provide intensive healthcare. Directional change is compared to the prior day. Data is provided by the California Department of Public Health. The total number is since the beginning of the pandemic on March 1, 2020.
Source: https://covid19.ca.gov/state-dashboard/

Testing and Positivity Rate

Tests Performed



Positivity Rate

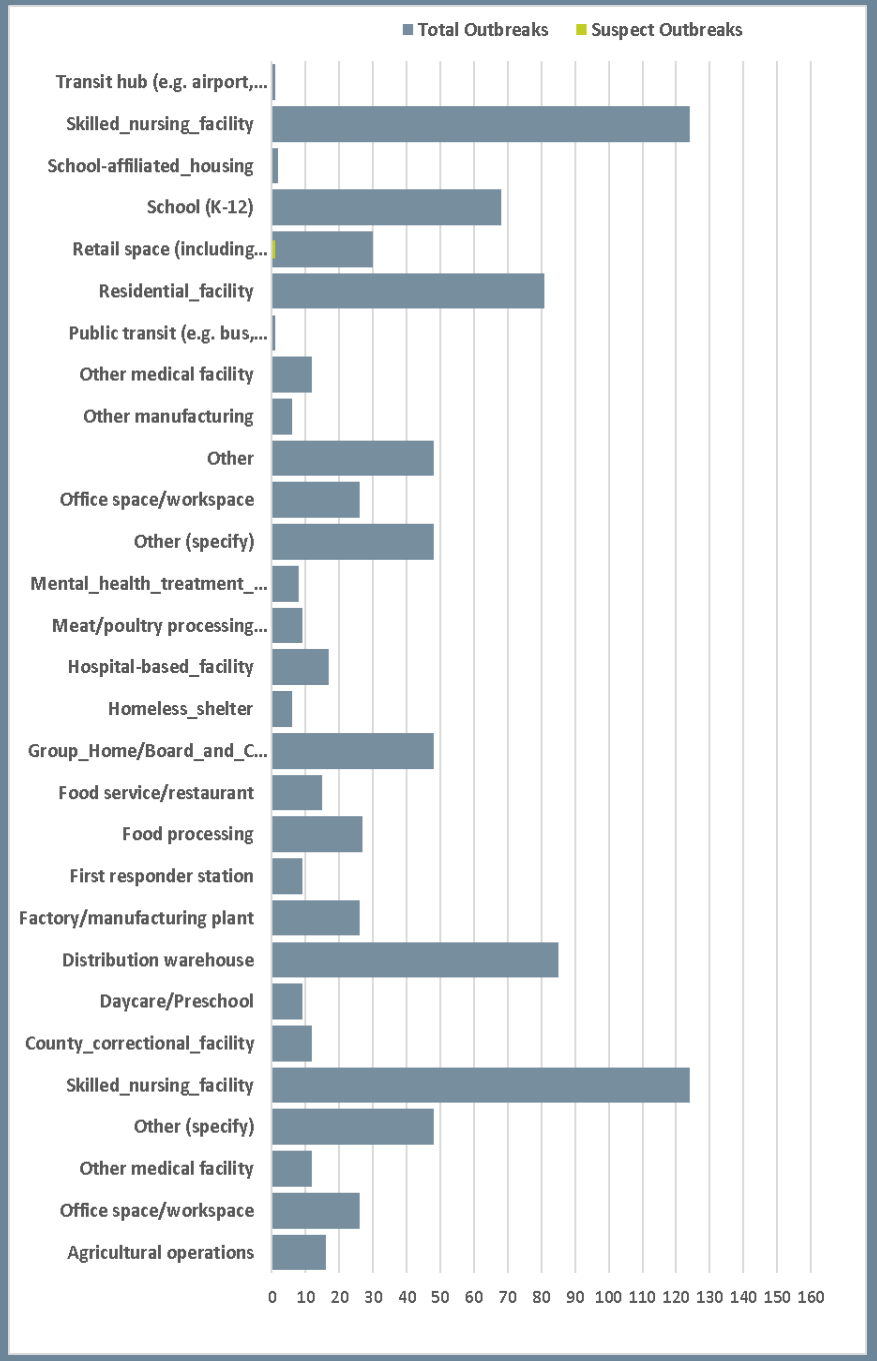


Note: Testing date is the date the test was administered. Test positivity is based on a 7-day average with no lag. Directional change is compared to the prior 7-day period. Data is provided by the California Department of Public Health. The total number is since the beginning of the pandemic on March 1, 2020. Source: https://covid19.ca.gov/state-dashboard/

Outbreaks by Industry

- Suspect outbreaks are outbreaks that have been reported to PHS since July ‘21 and are currently under investigation to determine whether the report constitutes a confirmed outbreak.
    - Suspect outbreak numbers can vary over time as information is verified.
- The same site can have multiple suspected outbreaks occurring at the same time.
- Total outbreaks are outbreaks that have been confirmed since the beginning of the pandemic, March 1, 2020.

(refer to Definitions – Outbreaks for more info)

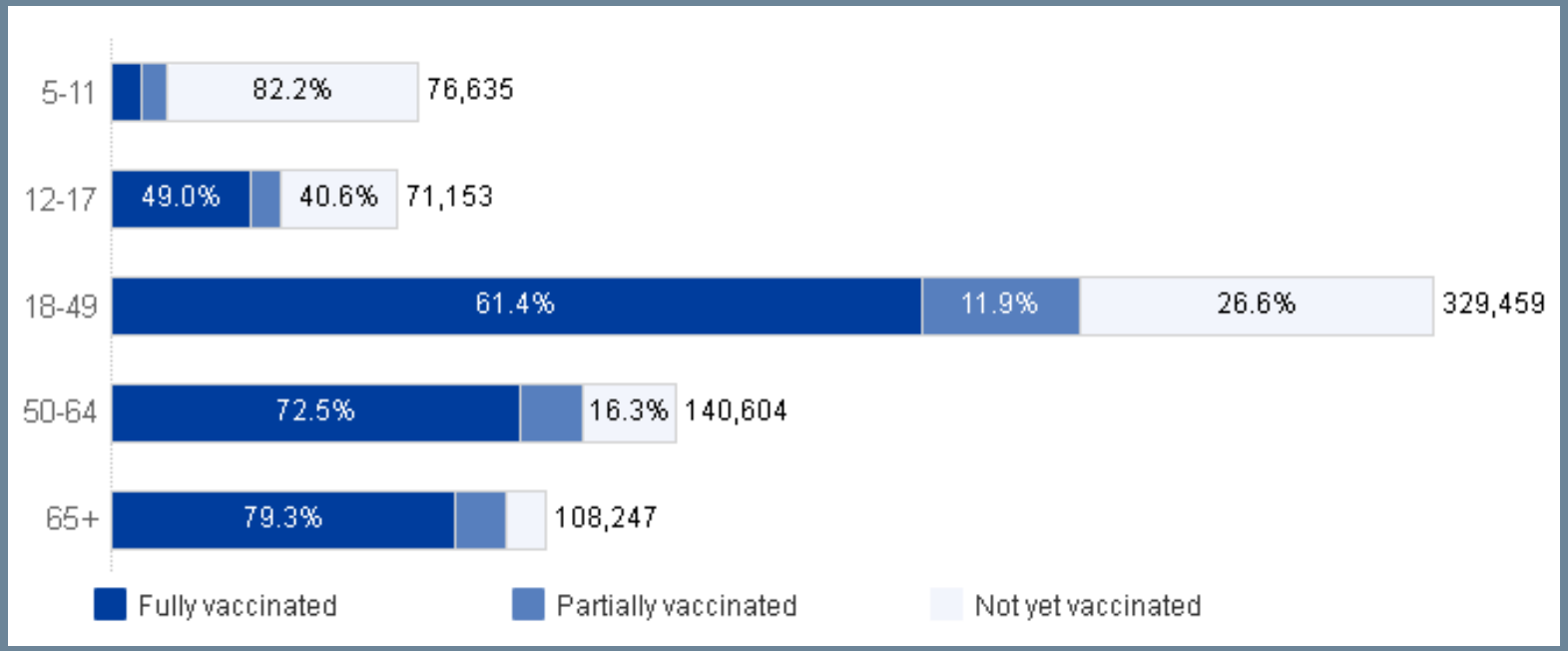


Vaccinations by Jurisdiction

Jurisdiction	Population	Total Vaccinations	Fully Vaccinated	% Fully Vaccinated	Partially Vaccinated	% Partially Vaccinated
Unincorporated	142,043	32,778	26,567	18.7	6,211	4.4
Escalon	6,746	7,302	6,159	91.3	1,143	16.9
Lathrop	20,571	21,913	17,885	86.9	4,028	19.6
Lodi	60,718	50,891	41,682	68.6	9,209	15.2
Manteca	73,611	64,263	53,423	72.6	10,840	14.7
Ripon	14,742	11,396	9,588	65.0	1,808	12.3
Stockton	286,655	253,833	204,147	71.2	49,686	17.3
Tracy	85,129	85,635	70,041	82.3	15,594	18.3
Unknown	*n/a*	1,380	951	*n/a*	429	*n/a*
Total	690,215	529,391	430,443	62.4	98,948	14.3

Note: Population estimates for each Jurisdiction have been updated to the 2019 American Community Survey (ACS) 5-Year Estimates. Population estimates are for individuals 5 years and older. The Total Population Estimate has been updated to the 2021 San Joaquin County Population Projection from the Department of Finance, to be consistent with the CDPH population denominator. Percentages may have changed due to the addition of 5-11 year olds to the vaccine eligible population.

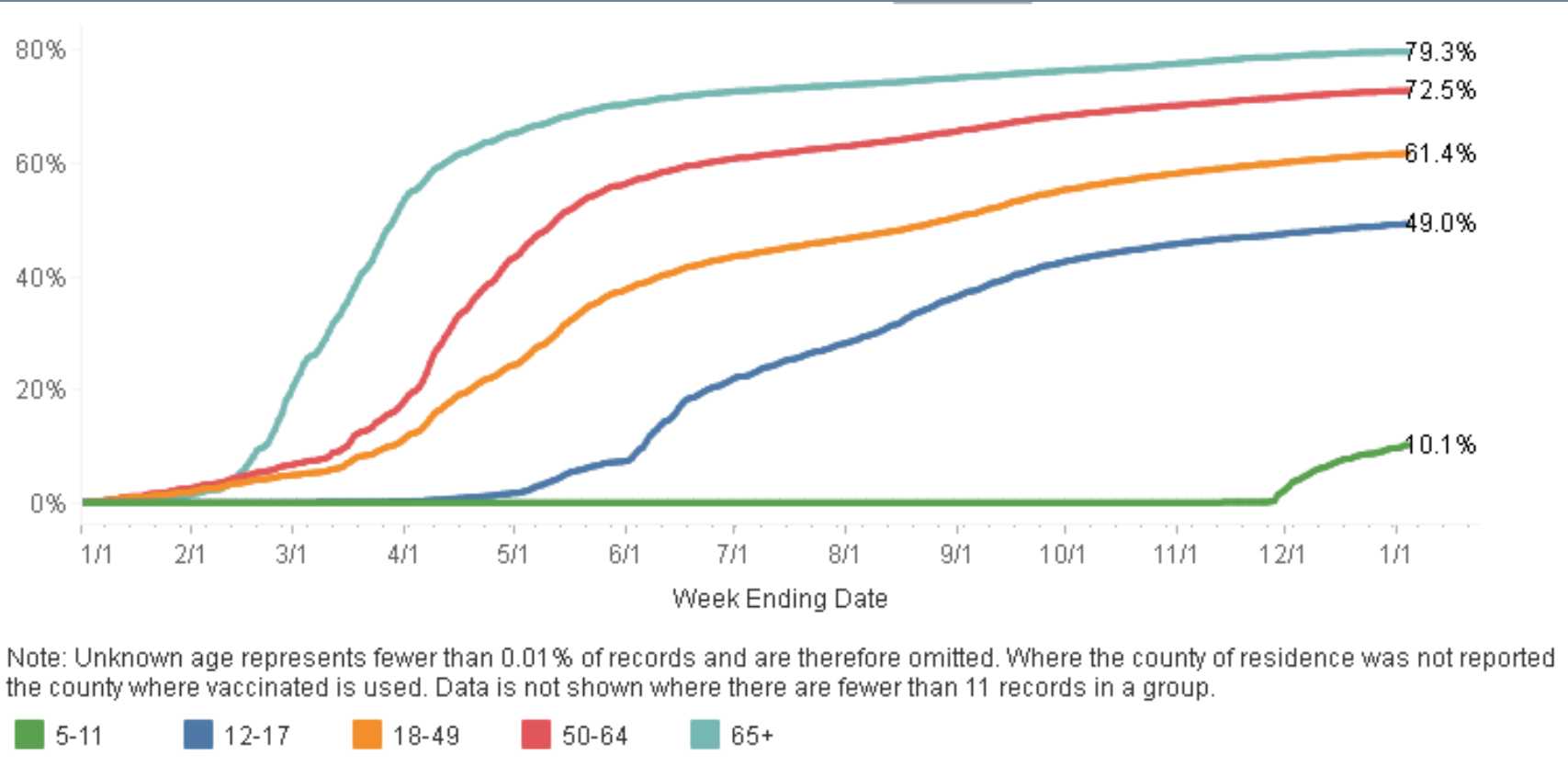
Vaccination Progress by Age Group



Note: Vaccination breakdowns are updated every Wednesday. Source: https://covid19.ca.gov/vaccination-progress-data/#equitably-across-groups

Percentages may have changed due to the addition of 5-11 year olds to the vaccine eligible population.

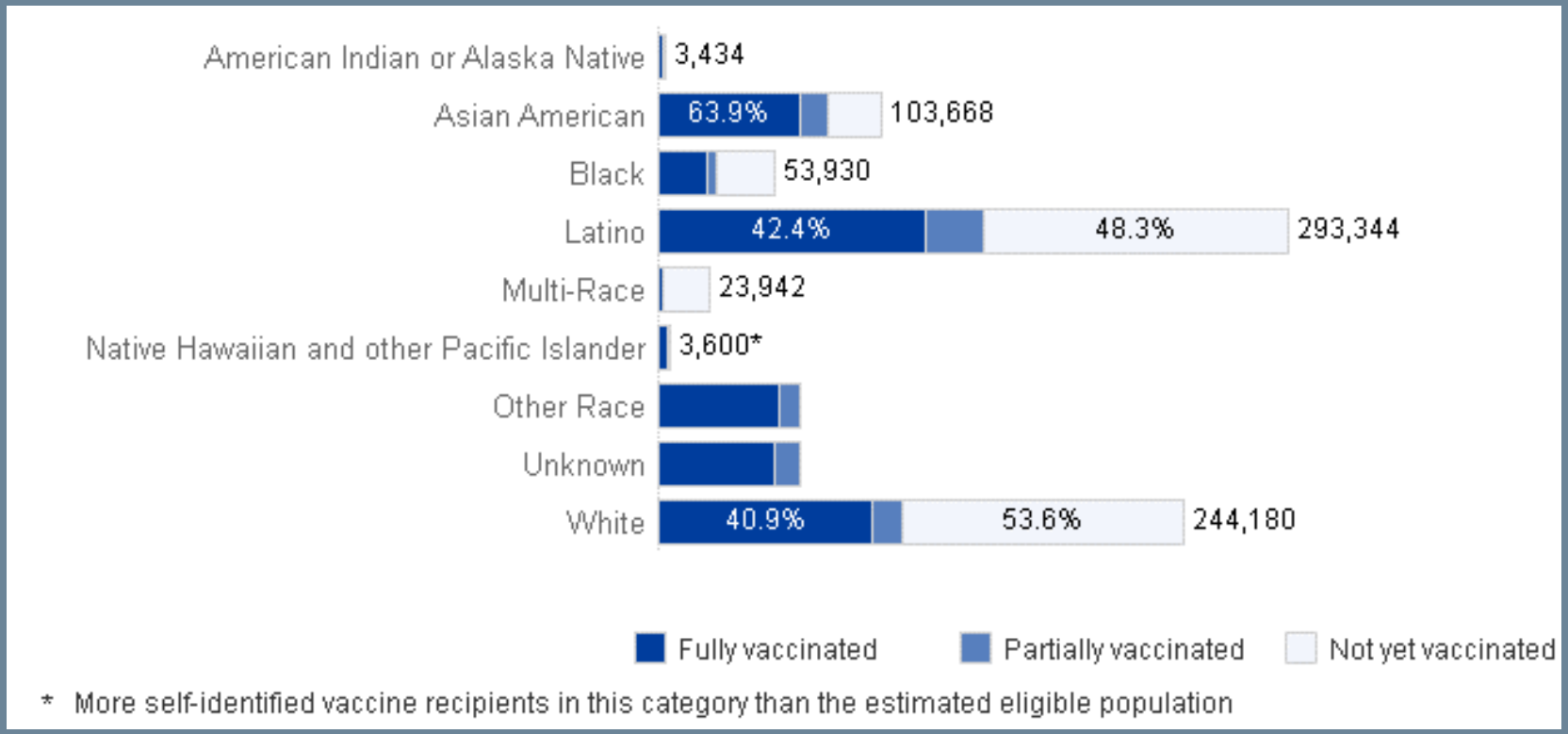
Fully Vaccinated Over Time by Age Group



Note: Vaccination breakdowns are updated every Wednesday. Source: https://covid19.ca.gov/vaccination-progress-data/#equitably-across-groups

Percentages may have changed due to the addition of 5-11 year olds to the vaccine eligible population.

Vaccination Progress by Race/Ethnicity



Note: Vaccination breakdowns are updated every Wednesday. Source: https://covid19.ca.gov/vaccination-progress-data/#equitably-across-groups

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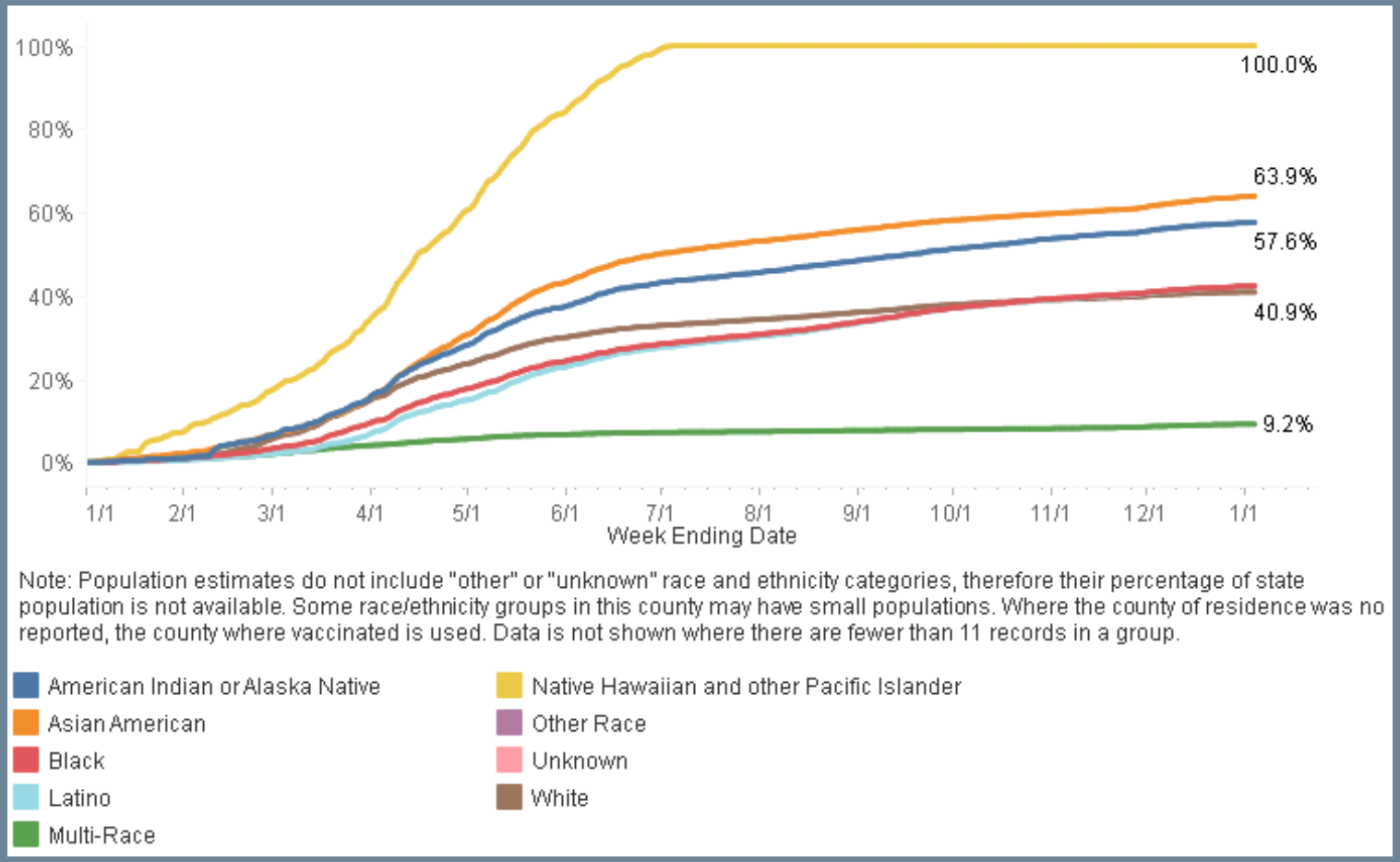
Fully Vaccinated Over Time by Race/Ethnicity



Note: Vaccination breakdowns are updated every Wednesday. Source: https://covid19.ca.gov/vaccination-progress-data/#equitably-across-groups

Percentages may have changed due to the addition of 5-11 year olds to the vaccine eligible population.

Definitions – Cases, Deaths, and Positivity Rate

- Cases:
  - Confirmed: Detection of SARS-CoV-2 RNA in a clinical specimen (swab) using a molecular amplification detection test (PCR).
    - A patient is counted only once if they have multiple positive tests.
  - Not Counted: Antigen or antibody tests.
  - Episode date is the estimated earliest date of the case's illness.
- Deaths:
  - COVID-19 is listed as the leading cause of death or significant condition on the death certificate as per CDPH's definition. May be removed from the total once the final ICD-10 code is received.
  - There is a substantial delay in receiving notification of deaths. Totals by week will change as PHS receives information.
- Positivity Rate:
  - Positivity rate is calculated as the number of positive molecular tests divided by the total molecular tests performed.

Definitions - Outbreaks

- **Health Care Facilities:**
  - Acute Hospital Facilities:
    - Patients: At least two lab confirmed COVID-19 in patients 7 days after admission for a non-COVID condition in which: (a) have a common source (i.e., unit and/or healthcare provider), (b) are not contacts to one another outside the facility, (c) are from different households.
    - Health Care Providers: 2-3 lab confirmed cases within two weeks in which (a) have a common source (i.e., unit), (b) are not contacts to one another outside the facility, (c) are from different households.
  - Long-Term Care Facilities: At least one lab confirmed COVID-19 in a resident, that was acquired in the facility.

For more detailed information, refer to https://www.cdph.ca.gov/Programs/CHCQ/LCP/Pages/AFL-20-75.aspx

- **Non-Health Care Facilities:**
  - Residential Congregate Settings (non-healthcare): At least three probable or confirmed cases (residents and/ or employees) within two weeks in which: (a) have common source and (b) are not identified as contacts to each other in any other case investigation.
    - Examples include dormitories, group homes, jails, prisons, shelters.
  - Non-Residential Congregate Settings (non-healthcare): At least three probable or confirmed cases within two weeks in which: (a) have a common source, (b) are from different households, (c) are not identified as contacts to each other in any other case investigation.
    - Examples include workplaces, childcare facilities, schools, weddings, churches.

For more detailed information, refer to https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/OutbreakDefinitionandReportingGuidance.aspx

Sources

- Data Systems:
  - California Reportable Disease Information Exchange (CalREDIE), Data Distribution Portal.
  - California Connected System (CalCONNECT).
  - Healthy Futures and California Immunization Registry (CAIR2) .
  - California Department Of Finance 2021 Population Projections.

- Websites:
  - “Tracking COVID-19 in California” https://covid19.ca.gov/state-dashboard/
  - “Vaccination Progress Data” https://covid19.ca.gov/vaccination-progress-data/
  - “California’s Commitment to Health Equity” https://covid19.ca.gov/equity/

Disclaimers

- Data are preliminary and subject to change as information is verified. Numbers do not represent true day-over-day changes as these results include cases from prior days. This information may not match other state websites due to differences in when the data was pulled, and the data sources used.
- Case/Death Counts by Jurisdiction and ZIP Code are processed through geocoding software to determine if they are found within the City Limits or ZIP Code boundaries. Cases without a known address, cases that are homeless, and cases with street addresses that cannot be accurately located are not included in the Case/Death Counts but are included in the County total.
- Variant cases: Do not represent the total number of variant infections. Positive COVID-19 samples are randomly selected and tested by CDPH and other labs. San Joaquin County Public Health Services does not control any aspect of the sampling completed by CDPH or other labs.
- Vaccinations: Population estimates are for individuals 12 years and older. The reporting of vaccine administration data into the immunization registries is consistently an under-count of actual number of doses administered locally, due to incomplete and delayed reporting into these systems. Providers that receive the vaccine are responsible for entering information into an immunization registry (Healthy Futures or CAIR2). Vaccine administration data is extracted from these registries. Administered doses are not counted if there is uncertainty regarding the county of residence. If the patient's address is missing, their administration site (i.e., Dameron) will be used as a proxy. May not include the following vaccinations of San Joaquin Residents: Individuals vaccinated but are not reported in California Immunization Registries or vaccinated at Federal facilities (VA, Prisons, Skilled Nursing Facilities).
- For “>99.9%” values: These values should be interpreted with caution as they may result from numerator-denominator mismatches for the following reasons: 1) Population projections are estimates and thus have a margin of error; this error can result in >99.9% values particularly for small populations. 2) Individuals identifying with race/ethnic groups outside of Federal Office of Management and Budget (OMB) classifications may cause those groups to exceed 99.9% (e.g. Asian ethnicities identifying as NHPI). 3) Metrics for small populations may be disproportionately affected by geocoding errors or non-resident individuals.