California Department of Public Health's County Monitoring Metrics

1. Case rate
2. Testing positivity percentage

Reference: California Department of Public Health website: https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/COVID19CountyMonitoringOverview.aspx accessed 8/28/2020.

Case Rate Formula
(effective 8/28/2020)

7-DAY AVERAGE WITH A 7-DAY LAG
(by episode date):

$$\frac{(\text{\# new cases over 7 days}/7)}{3{,}370{,}418} \times 100{,}000$$

Case Rate Tiers

Tier	Case Rate (per 100,000)
1 (Purple)	>7.0
2 (Red)	4.0-7.0
3 (Orange)	1.0-3.9
4 (Yellow)	<1.0

Case Rate Calculation

Case Count	Case Count Excluding State and Federal Prison Inmates	Episode Date	Update Date
279	279	8/10/2020	9/1/2020
258	258	8/11/2020	9/1/2020
262	262	8/12/2020	9/1/2020
205	205	8/13/2020	9/1/2020
228	228	8/14/2020	9/1/2020
182	181	8/15/2020	9/1/2020
158	157	8/16/2020	9/1/2020
245	245	8/17/2020	9/1/2020
252	251	8/18/2020	9/1/2020
289	265	8/19/2020	9/1/2020
223	219	8/20/2020	9/1/2020
205	205	8/21/2020	9/1/2020
163	163	8/22/2020	9/1/2020
143	140	8/23/2020	9/1/2020
241	220	8/24/2020	9/1/2020
208	203	8/25/2020	9/1/2020
188	188	8/26/2020	9/1/2020
210	202	8/27/2020	9/1/2020
154	152	8/28/2020	9/1/2020
66	63	8/29/2020	9/1/2020
26	26	8/30/2020	9/1/2020
4	4	8/31/2020	9/1/2020

7-day lag

- Case counts by episode date are available to download at: https://sdgis-sandag.opendata.arcgis.com/
- Previously reported case counts by episode date are updated every day as new cases are investigated
- For the most current case rate, look for the most recent "Update Date" (9/1/2020)
- 7-day lag = ignore case counts with episode dates from August 25th through August 31st
- 7 days of interest = episode dates August 18th through August 24th
- Sum of case count excluding State and Federal prison inmates over 7 days with episode dates from August 18th through August 24th and divide by 7 = 1,463/7 = 209

7-DAY AVERAGE WITH A 7-DAY LAG (by episode date):

$$\frac{(1,463/7)}{3,370,418} \times 100,000$$

$$= 6.2 \text{ per } 100,000$$

TESTING POSITIVITY PERCENTAGE
Formula will remain the same

Testing Positivity Percentage Formula

The Testing Positivity Percentage formula is going to remain the same.

7 DAYS WITH A 7-DAY LAG
(by specimen collection date):

$$\frac{\text{\# positive test results}}{\text{\# total tests}} \times 100$$

Testing Positivity Percentage Tiers

Tier	Testing Positivity Percentage
1 (Purple)	>8.0%
2 (Red)	5.0-8.0%
3 (Orange)	2.0-4.9%
4 (Yellow)	<2.0%

Testing Positivity Percentage Calculation

Specimen Collection Date	Positives	All Tests
8/18/2020	277	8,820
8/19/2020	324	7,807
8/20/2020	291	7,406
8/21/2020	309	7,597
8/22/2020	183	4,527
8/23/2020	113	2,989
8/24/2020	302	7,833
Total	1,799	46,979

- Tests by specimen collection date are not currently available to the public
- When calculating the testing positivity percentage on September 1st, ignore tests with specimen collection date from August 25th through August 31st
- 7 days of interest = specimen collection date August 18th through August 24th
  - Positive test results = 1,799
  - All tests = 46,979

7 DAYS WITH A 7-DAY LAG
(by specimen collection date):

$$\frac{1,799}{46,979} \times 100$$

=3.8% testing positivity

Case Rate

Tier	Case Rate (per 100,000)
1 (Purple)	>7.0
2 (Red)	4.0-7.0
3 (Orange)	1.0-3.9
4 (Yellow)	<1.0

San Diego County = 6.2/100,000

Testing Positivity

Tier	Testing Positivity Percentage
1 (Purple)	>8.0%
2 (Red)	5.0-8.0%
3 (Orange)	2.0-4.9%
4 (Yellow)	<2.0%

San Diego County = 3.8%

Based on calculations made on September 1st, San Diego County is in Tier 2.
When metrics are in different tiers, the stricter of the tiers is where the County will be categorized.