Nevada's County COVID-19 Elevated Disease Transmission Tracker

Background

Nevada's counties are diverse in so many ways and have been impacted by COVID differently. In order to ensure that each county is assessed for elevated disease transmission, the Nevada Health Response Team, a collaboration between the Governor's Office, Department of Health and Human Services, and the Division of Emergency Management, has created a county tracker. This tracker will be updated regularly to monitor progress.

Understanding the Data Being Monitored

When reviewing the data, a few assumptions should be noted, such as:

- COVID positive case rates amongst state and federal prison inmates and staff are also included in the disease transmission data;
- Testing data may help explain or provide context for interpreting the elevated disease transmission data.

Elevated Disease Transmission

The 14-day case rate and 7-day testing positivity rate are used to assess the level of COVID-19 burden in a county. For each measure, the higher the number, the more a county is impacted by COVID-19. However, it is important to look at this data in the context of average number of tests per day, as well as who is being tested. In general, higher number of tests per day indicates more widespread testing for COVID-19 beyond individuals who have symptoms. This means that more individuals who either do not have COVID-19 or have COVID-19 but are asymptomatic will be tested. As a result, as the number of tests per day increases, the case rate may increase (due to the identification of asymptomatic cases) and the testing positivity rate may decrease (due to more testing among individuals who do not have COVID-19).

A county is flagged for elevated disease transmission if it meets two of the three criteria:

1. **Average number of tests per day (per 100,000) < 150.** The average number of cases resulted during the previous week in a county, divided by the number of people living in the county. This number is then multiplied by 100,000 to control for varying populations in counties.
2. **Case rate (per 100,000) >100.** The total number of cases diagnosed and reported over a 14-day period divided by the number of people living in the county. This number is then multiplied by 100,000 to control for varying populations in counties.
3. **Case rate (per 100,000) >25 AND testing positivity >7.0%.** The total number of positive polymerase chain reaction (PCR) tests divided by the total number of PCR tests conducted. This number is then multiplied by 100 to get a percentage. Due to reporting delay (which may be different between positive and negative tests), there is a 7-day lag.

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Tracker Results as of 7/9/20

Elevated Disease Transmission
Case Rate > 100 per 100,000 OR Case Rate > 25 and Positivity > 7%

	Threshold	<150		
County	Average # of test per day per 100,000	Case Rate per 100,000 (last 14 days)	Test Positivity (7 day average, with 7 day lag)	# of Criteria Met
Carson City	199.3	95.5	15%	1
Churchill	175.6	61.8	2%	0
Clark	297.7	336.4	10%	2
Douglas	53.5	40.2	6%	1
Elko	208.9	160.0	11%	2
Esmeralda	220.0	0.0	0%	0
Eureka	72.7	0.0	0%	1
Humboldt	118.1	46.9	22%	2
Lander	159.6	100.1	21%	2
Lincoln	27.5	0.0	0%	1
Lyon	79.8	55.2	13%	2
Mineral	178.5	21.9	0%	0
Nye	77.5	204.6	18%	3
Pershing	90.3	57.5	0%	1
Storey	16.0	0.0	0%	1
Washoe	200.7	193.2	8%	2
White Pine	1775.9	28.3	1%	0