

Modeling & Forecasting COVID-19 in NM

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July 27, 2021

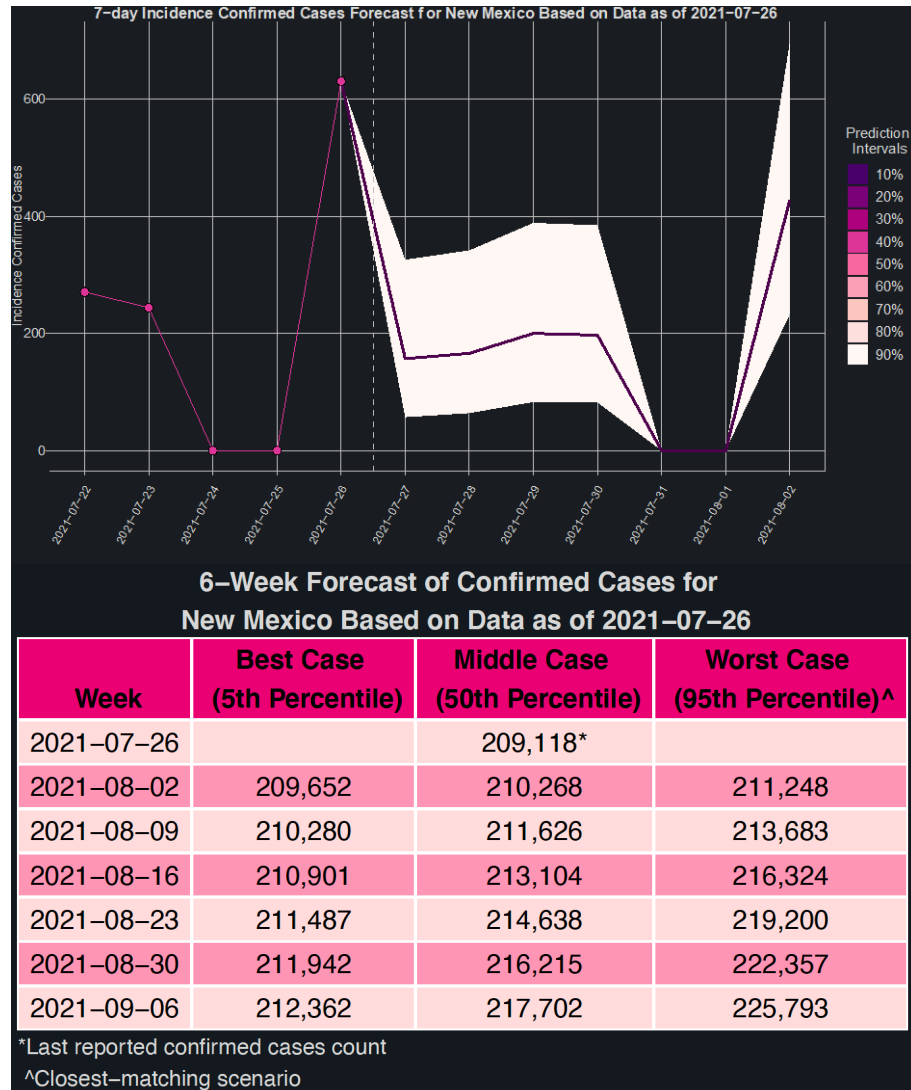
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Short- & Long-Term Forecast for NM: Cases



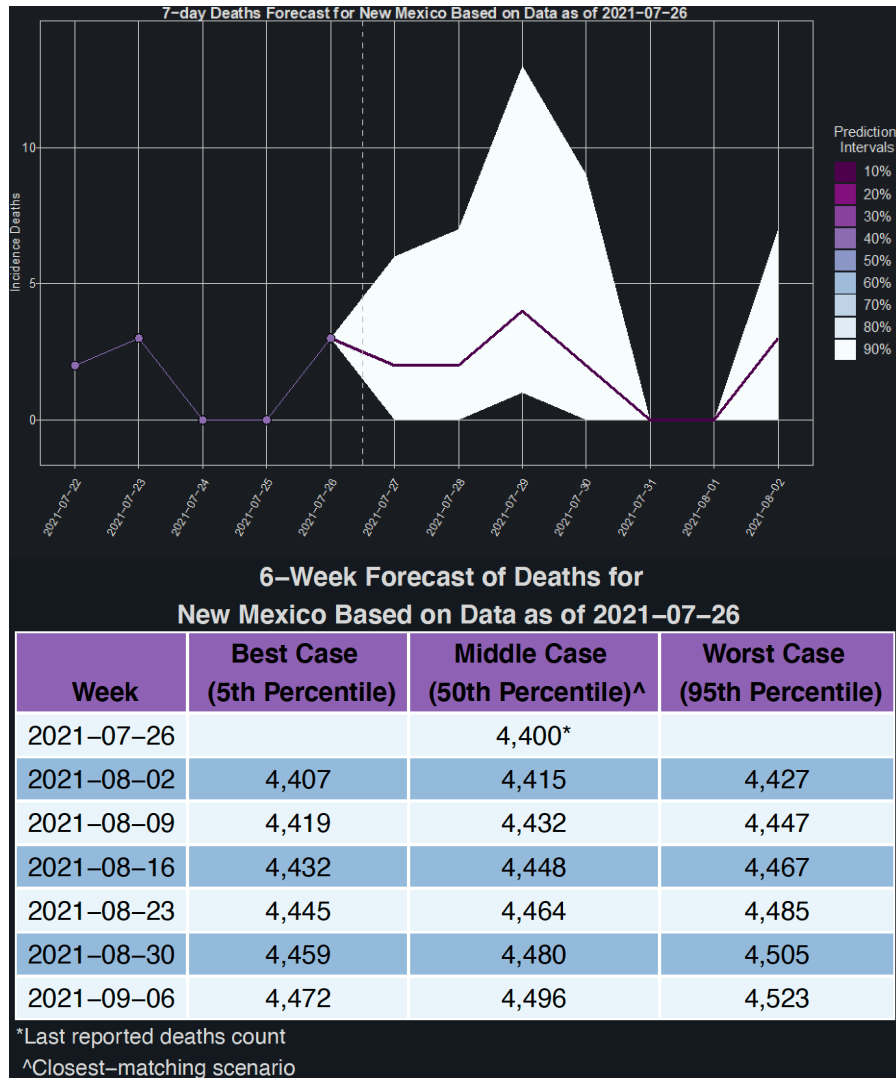
6-Week Forecast of Daily Average of Confirmed Cases for New Mexico Based on Data as of 2021-07-26

Week End Date	Best Case (5th Percentile)	Middle Case (50th Percentile)	Worst Case (95th Percentile) [^]
2021-07-26		222*	
2021-08-02	74	164	306
2021-08-09	87	194	353
2021-08-16	85	210	397
2021-08-23	75	215	435
2021-08-30	65	216	466
2021-09-06	54	214	506

*Last reported confirmed cases count
[^]Closest-matching scenario

So what?
The daily number of cases are expected to range between 306 and 397 in the next few weeks

Short- & Long-Term Forecast for NM: Deaths



6-Week Forecast of Daily Average of Deaths for New Mexico Based on Data as of 2021-07-26

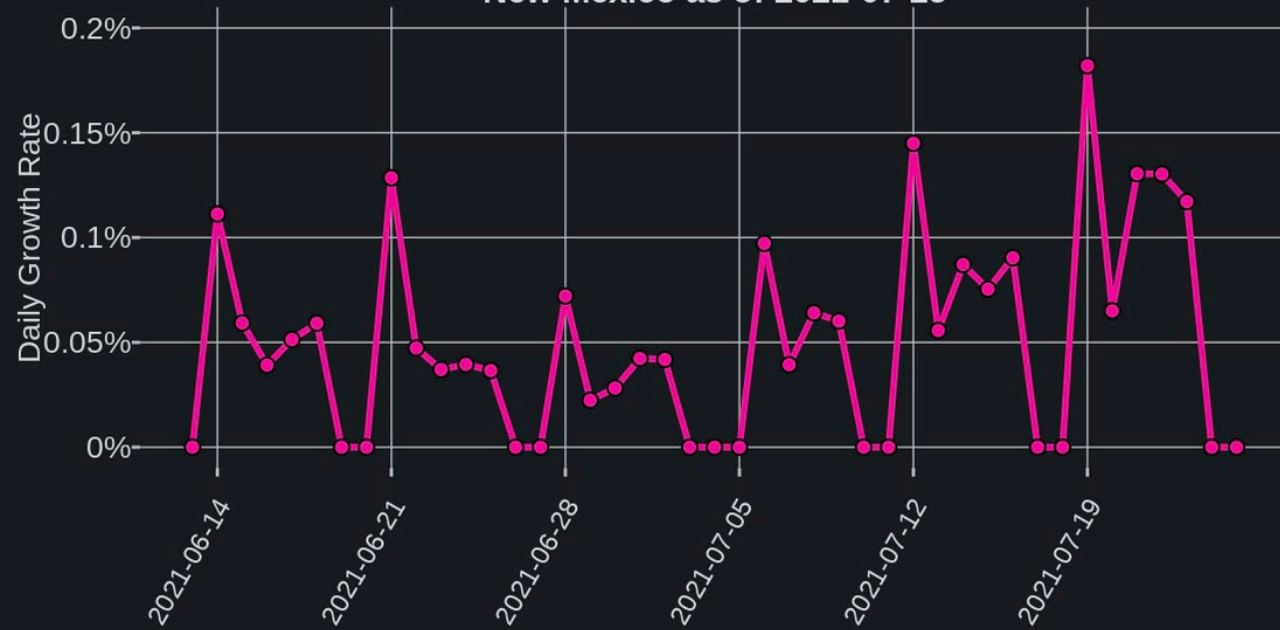
Week Start Date	Best Case (5th Percentile)	Middle Case (50th Percentile) [^]	Worst Case (95th Percentile)
2021-07-26		2*	
2021-08-02	0	2	6
2021-08-09	0	2	6
2021-08-16	0	2	6
2021-08-23	0	2	6
2021-08-30	0	2	6
2021-09-06	0	2	6

*Last reported confirmed deaths
[^]Closest-matching scenario

So what?
The daily number of deaths are expected to range between 2 and 6 in the next few weeks

Growth Rate for NM

Daily Growth Rate for the Past Six Weeks in New Mexico as of 2021-07-25



6-Week Forecast of the Average Weekly Growth Rate for New Mexico Based on Data as of 2021-07-25

Week	Best Case (5th Percentile)	Middle Case (50th Percentile) [^]	Worst Case (95th Percentile)
2021-07-25		0.089%*	
2021-08-01	0.031%	0.067%	0.12%
2021-08-08	0.037%	0.077%	0.13%
2021-08-15	0.037%	0.083%	0.15%
2021-08-22	0.031%	0.083%	0.16%
2021-08-29	0.029%	0.080%	0.17%
2021-09-05	0.023%	0.080%	0.17%

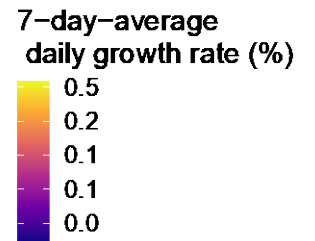
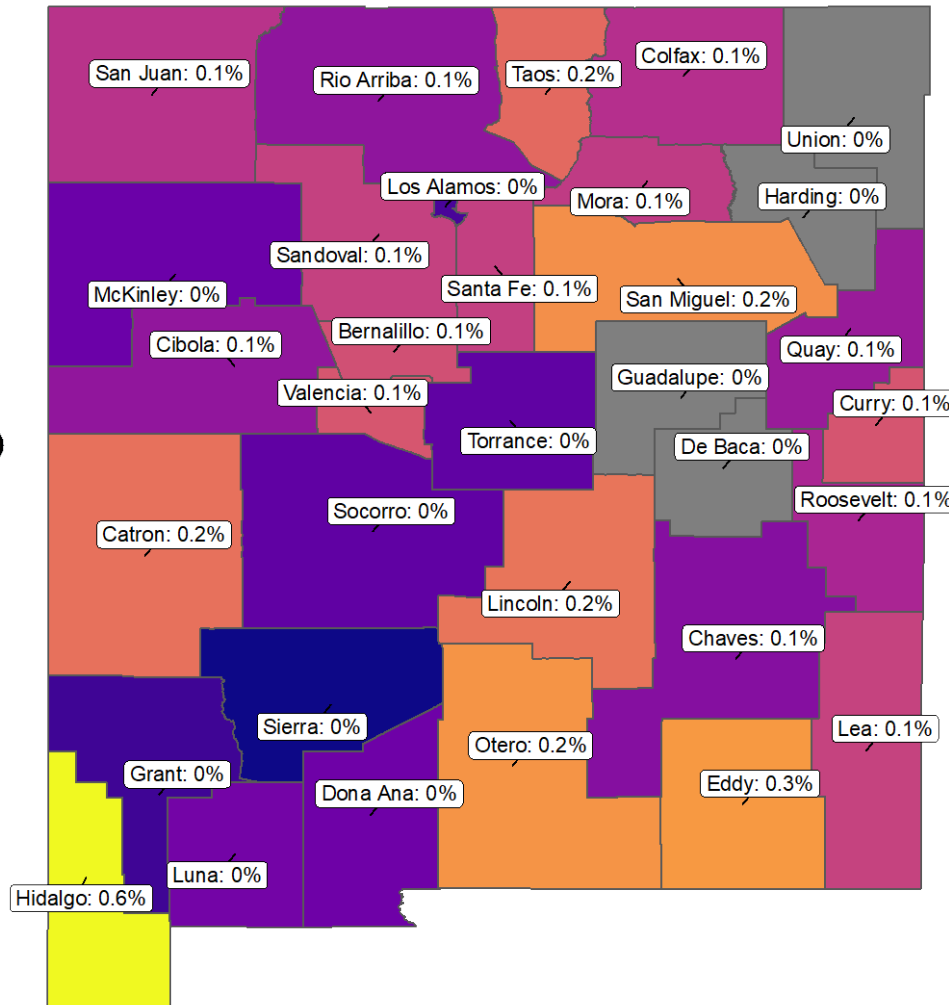
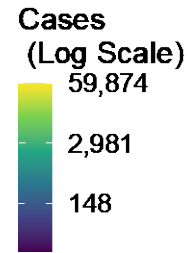
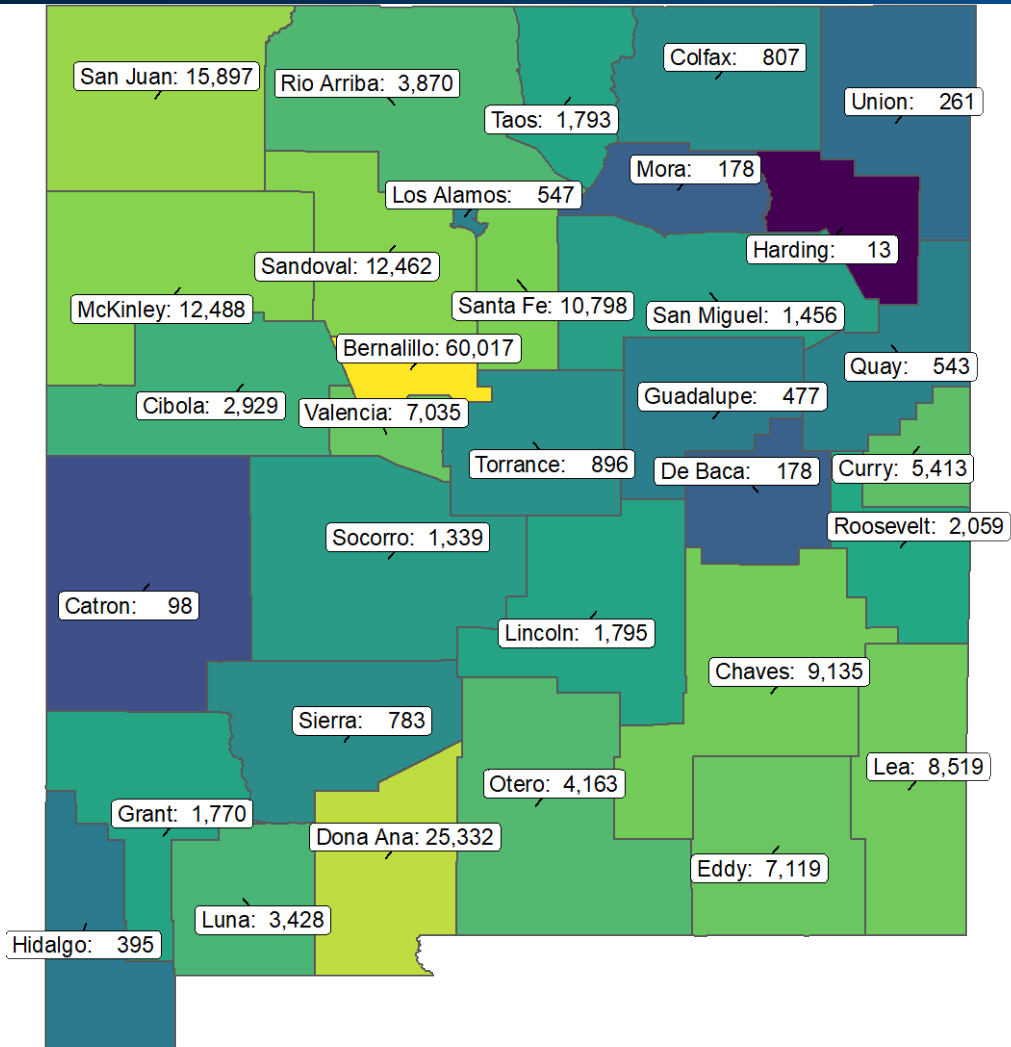
*Last weekly mean daily growth rate

[^]Closest-matching scenario

So what?

As of July 25th, the average growth rate in NM is at 0.089% (up as two weeks ago)

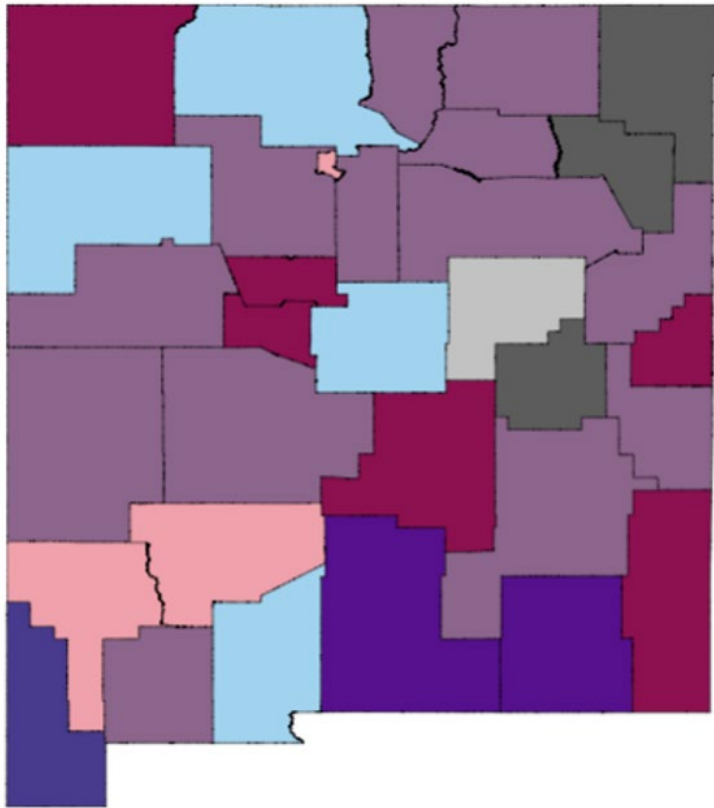
Cumulative Cases & Daily Growth Rate for NM: July 26



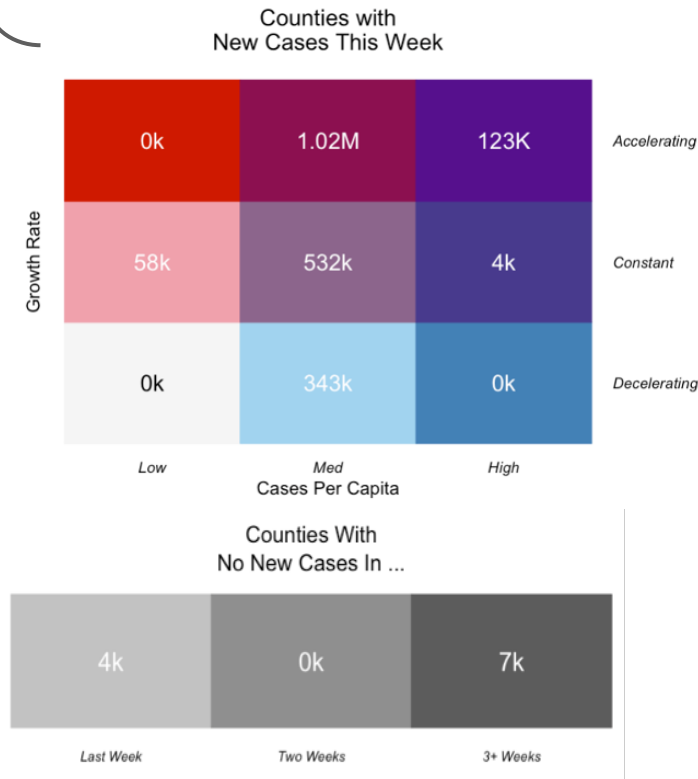
So what? A few counties are seeing growth in case counts

*Growth rate is in cumulative cases

Weekly Growth Rate for NM: Another View (July 26)



Impacted New Mexicans



So what?

- Most people in New Mexico are living in a county that is **medium per-capita case counts with accelerating growth**
- Otero, Eddy, Curry, Lea, Lincoln, San Juan, Valencia are accelerating

Number of New Mexicans living in regions with particular combinations of per capita case counts and 7-day growth rates

Low <10 cases/100k per week
 Med 10-99 cases/100k per week
 High >100 cases/100k per week

Variants in New Mexico

Bette Korber, 7/25/2021

New Mexico, like everywhere else, is moving towards a Delta Epidemic

To get a notion of the phenotypic changes in the Delta variant, please see : B. Li, et al. 2021. Viral infection and transmission in a large well-traced outbreak caused by the Delta SARS-CoV-2 variant. Virological. <https://virological.org/t/viral-infection-and-transmission-in-a-large-well-traced-outbreak-caused-by-the-delta-sars-cov-2-variant/724>