PMC U.S. COVID-19 Report for October 27, 2025. pmc19.com/data

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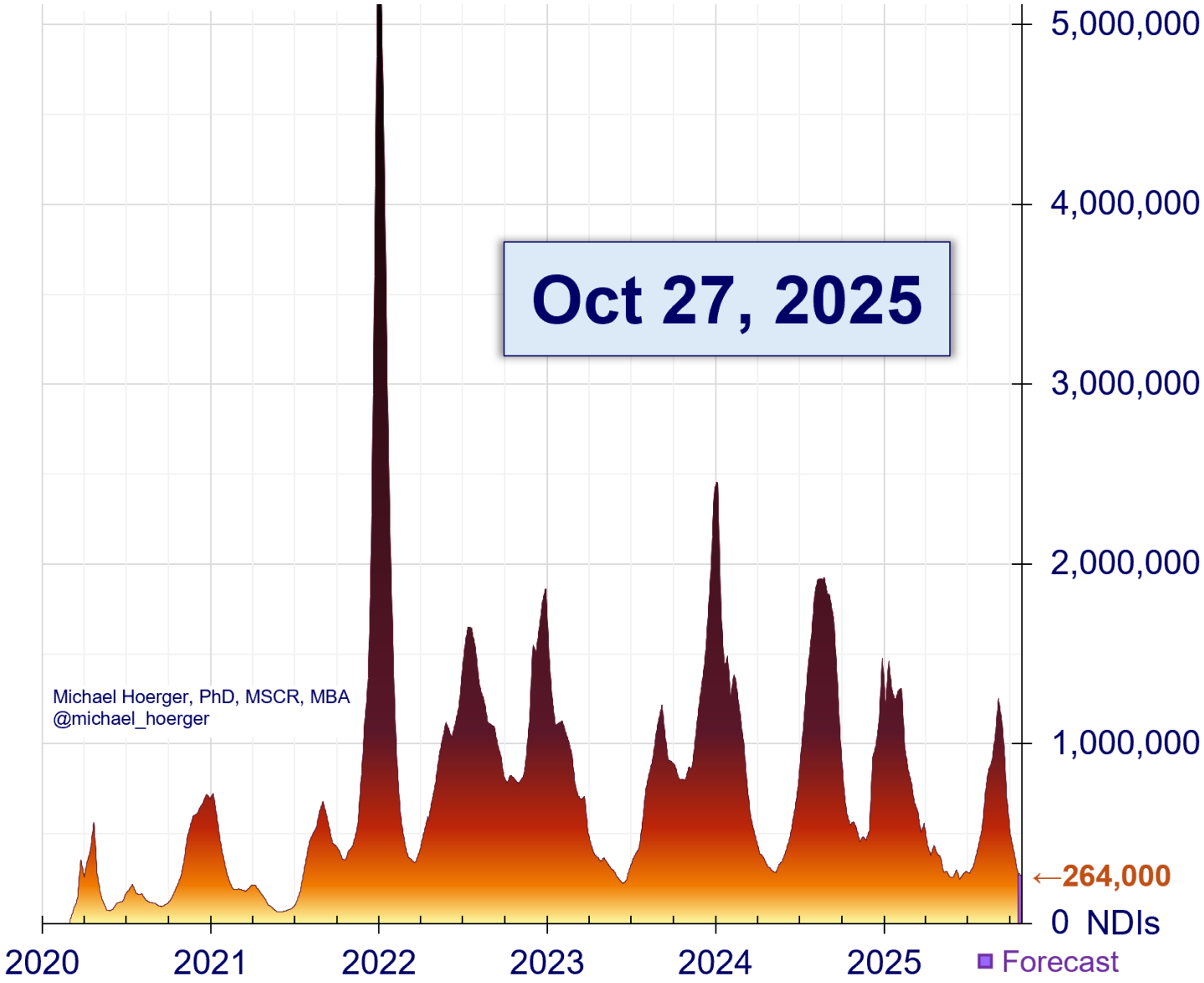

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Announcements

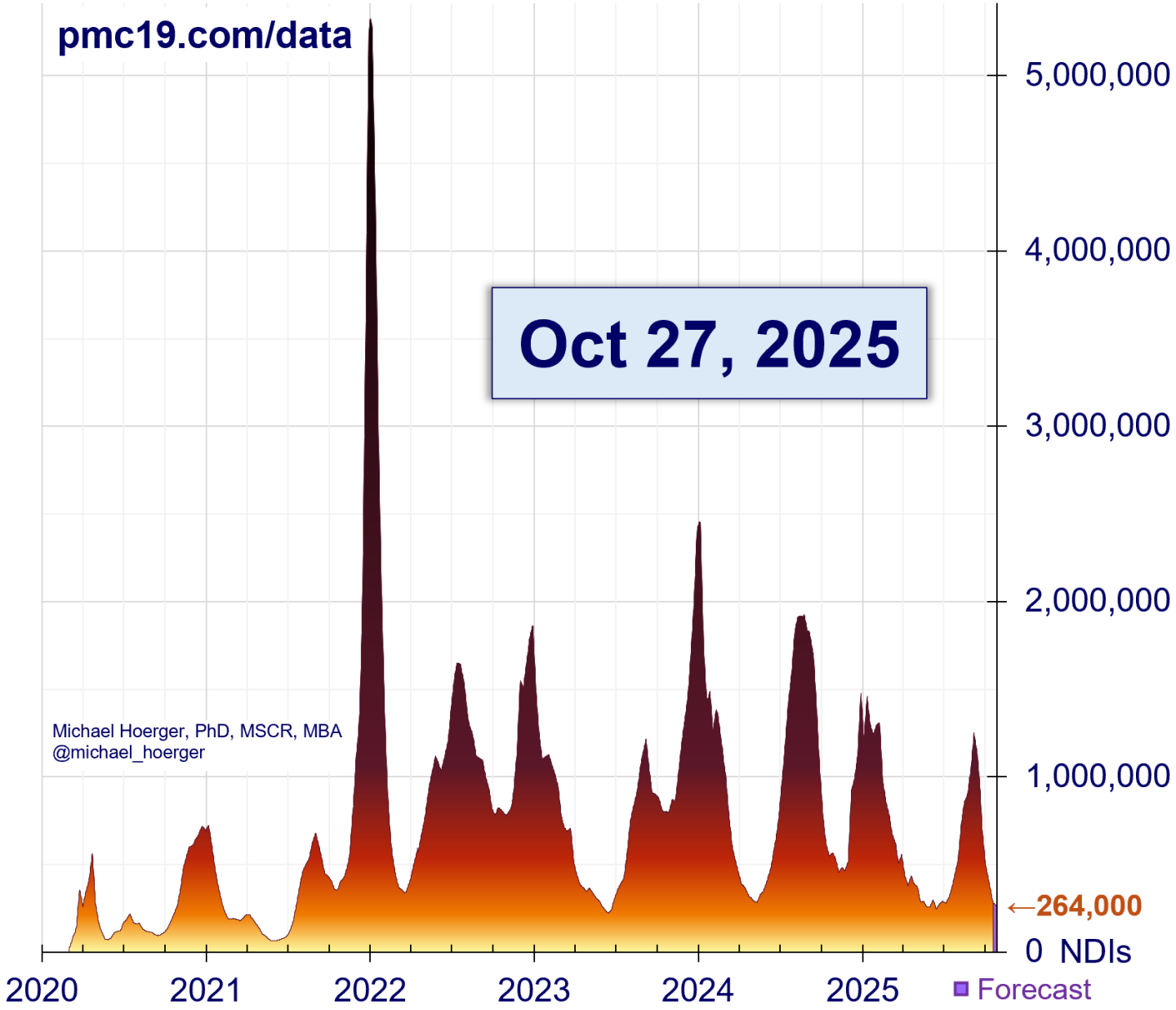
Popular and News Media Coverage:

- FOX8 News (Oct 20): https://www.fox8live.com/2025/10/21/government-shutdown-affects-health-data-jobs-numbers-more/
- Stateline (Oct 20): https://stateline.org/2025/10/20/shutdown-leaves-gaps-in-states-health-data-possibly-endangering-lives/
- PRISM (Oct 27): https://prismreports.org/2025/10/27/cdc-cuts-covid-19-vaccines/

Data Quality

- The report continues to rely on limited data from Biobot amid the ongoing federal 'shutdown.' Normally, the model uses a combination of CDC (80% model weight) and Biobot data (20% model weight). With the CDC data paused, we are relying exclusively on Biobot for incoming data, and during lapses in Biobot reporting, substitute data on trends from WastewaterSCAN. Last week, we had to rely on WastewaterSCAN entirely, but this week Biobot is back. The substitute estimates last week from WastewaterSCAN correlated r=.97 (near perfect) with the now updated transmission estimates from Biobot. However, while Biobot was paused, the retroactively increased the magnitude of the most recent peak and subsequent weeks, making the current estimates of the relative "lull" a little higher than previously estimated last week. Expect the estimates to bounce around inconsequentially week-over-week while the CDC data remain on pause.

SARS-CoV-2 New Daily Infections, Wastewater-Derived Estimates (U.S.)



Current transmission is estimated as about 20% of that of the summer peak 7 weeks ago. Levels remain very high in the absolute sense, but this is important risk reduction in relative terms. Many COVID conscious patients are scheduling appointments during the next 3 weeks, albeit without localized CDC data.

National COVID-19 Estimates (U.S.)

Oct 27, 2025 **pmc19.com/data**

Infections

Proportion Actively Infectious	1 in 185 (0.5%)
New Daily Infections	264,000
Infections the Past Week	1,880,000
Infections in 2025	194,000,000
Cumulative Infections per Person	4.71

Long COVID

Long COVID Cases Resulting from New Daily Infections	13,000 to 53,000
Long COVID Cases Resulting from New Weekly Infections	94,000 to 380,000

Excess Deaths

Excess Deaths Resulting from New Daily Infections	80 to 130
Excess Deaths Resulting from New Weekly Infections	500 to 900

The estimated 264,000 new daily infections for October 27. Transmission is basically flat. Do not expect it to fall consequentially further.

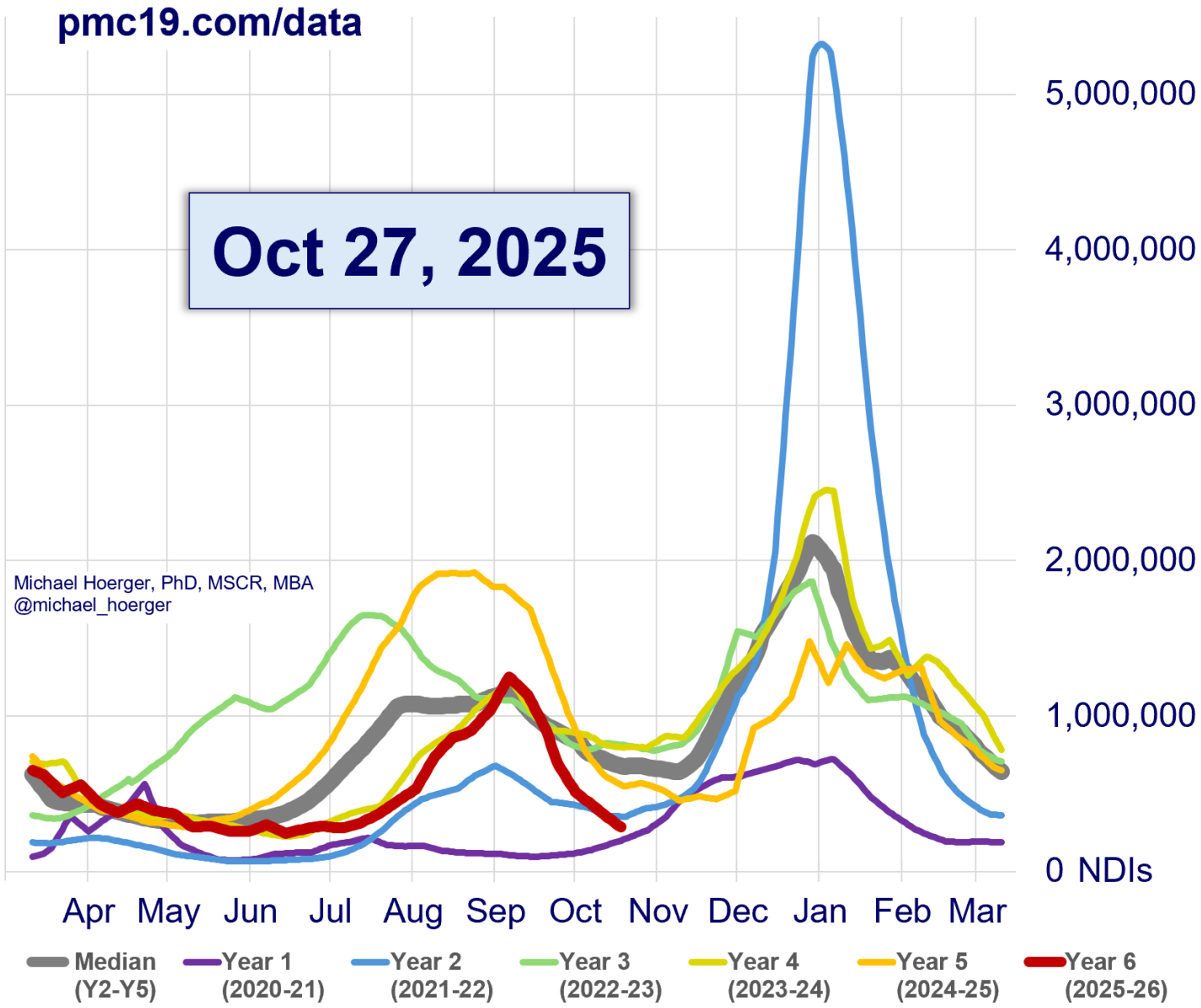
National COVID-19 Risk Table (U.S.)

Oct 27, 2025 pmc19.com/data

Number of People	Chances Anyone is Infectious
1	0.5%
2	1.1%
3	1.6%
4	2.1%
5	2.7%
10	5.3%
15	7.8%
20	10.3%
25	12.7%
30	15.0%
50	23.8%
75	33.4%
100	41.9%
200	66.2%
300	80.4%

This national risk table indicates the probability of a SARS-CoV-2 exposure based on number of social interactions, if the individuals are of average national risk and not engaging in testing or isolation protocols. Even with just 1 in 185 people (0.5%) estimated actively infectious, exposure risk remains troubling in schools and much larger gatherings.

SARS-CoV-2 Year-Over-Year Estimates of Transmission (U.S.)



After current transmission (red) was closely tracking that of two years ago (yellow), notice the significant departure, with a steep decline in transmission more like a year ago (orange). The lack of resemblance between current and prior years' transmission creates uncertainty about the winter.

SARS-CoV-2 Transmission Forecast, Wastewater-Derived Estimates (U.S.)

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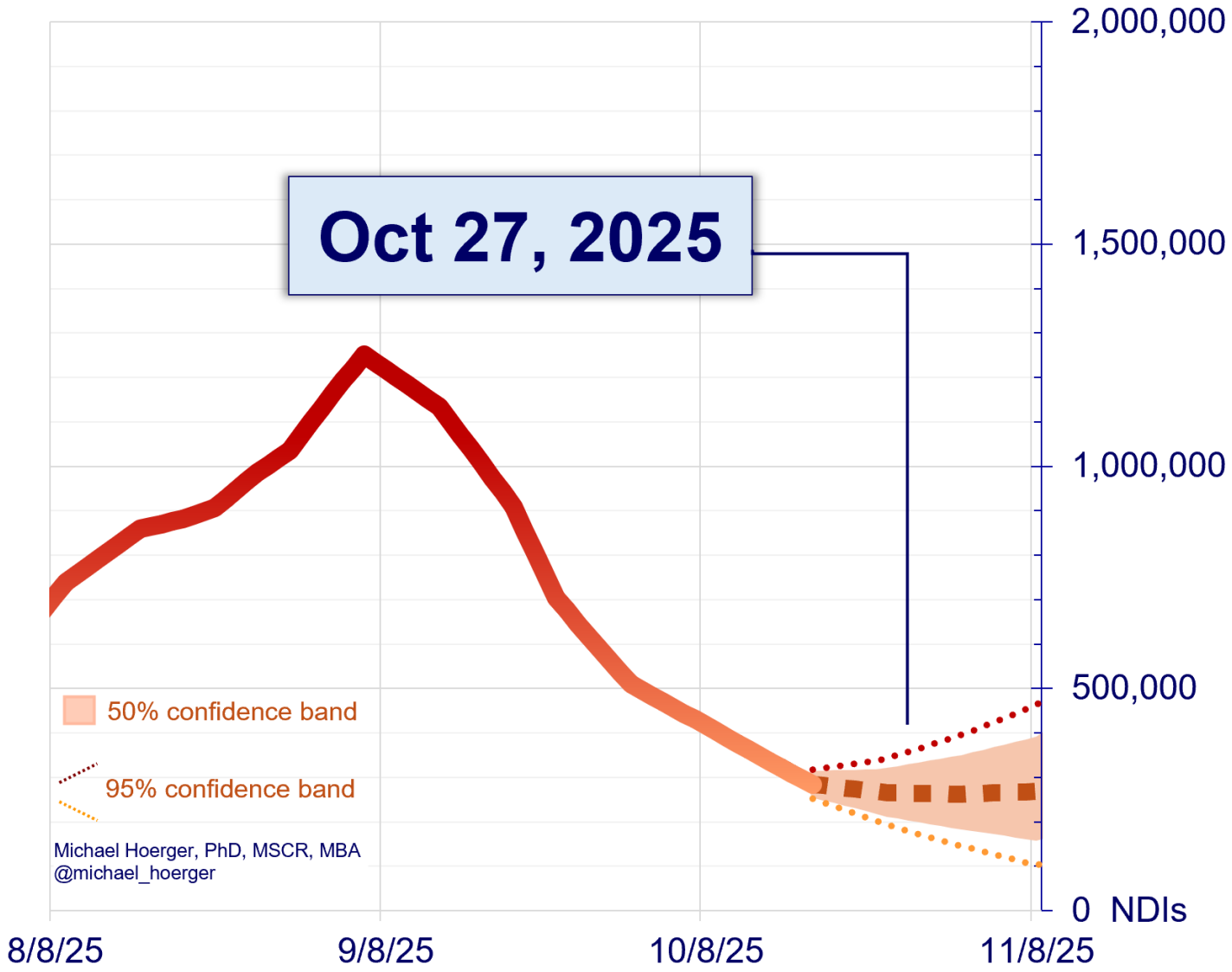
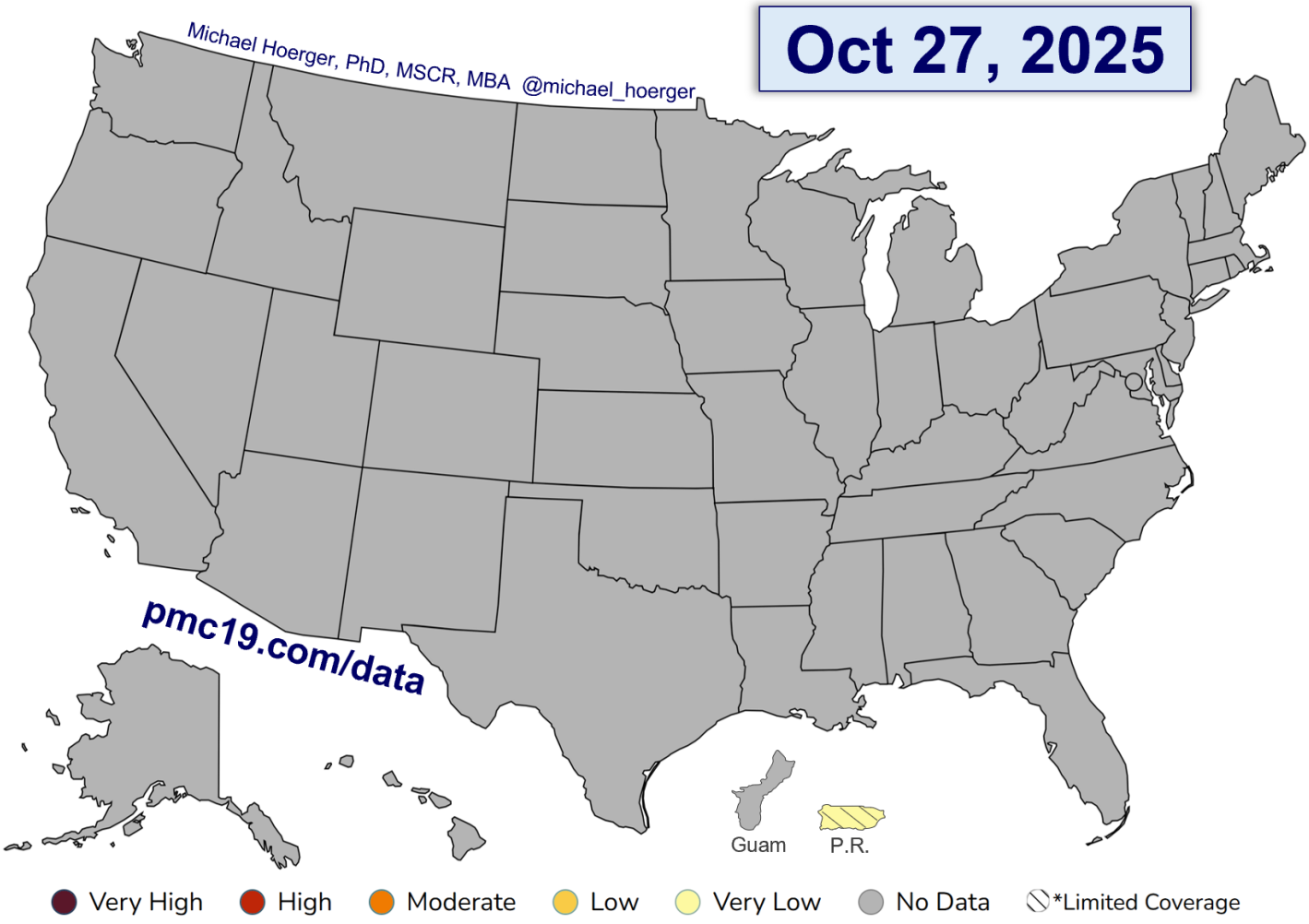


The forecast calls for stable transmission during this relative “lull.” Presently, there is no indication that transmission will depart from this lull prior to mid-November. Keep an eye out for isolated states rising on WastewaterSCAN as an early warning for departure from the national lull.

COVID-19 Heat Map, Based on CDC Wastewater Data and Levels (U.S.)



The heat map remains in a near-complete blackout with the CDC data offline and only Puerto Rico reporting separately. Transmission in PR closely matches the national trend of a steep decline into a relative lull. Consult localized dashboards and WastewaterSCAN. See https://pmc19.com/states for useful links. Take non-CDC estimates with a grain of salt, and focus more on the level of recent relative changes (e.g., down 50%); long-term comparisons are typically poorly standardized, and cross-regional estimates are of low rigor (e.g., WastewaterSCAN commonly has the West low, even when all other data sources indicate very high).

A separate document called a Technical Appendix appears on the dashboard page and has more methodologic info. Search for key answers there first, and then send a public comment tagging Dr. H. on Twitter if further help is needed.