

Data.set:

1. United_States_COVID-19_County_Level_of_Community_Transmission_Historical_Changes_-_ARCHIVED.csv

- start.date = "2020-07-01" to "2022-10-20" daily
- County level
- Two other transmission level added I:

Transmission level based on test and
Transmission based on case

	Low	Moderate	Substantial	High
New cases per 100,000 persons in the past 7 days*	<10	10-49.99	50-99.99	≥100
Percentage of positive NAATs tests during the past 7 days**	<5%	5-7.99%	8-9.99%	≥10.0%

state_name	county_name	fips_code	date	cases_per_100K_7_day_count_change
Length:3225222	Length:3225222	Min. : 1001	Min. :2020-01-22	Min. : 0.0
Class :character	Class :character	1st Qu.:19029	1st Qu.:2020-09-28	1st Qu.: 38.8
Mode :character	Mode :character	Median :30022	Median :2021-06-05	Median : 127.7
		Mean :31375	Mean :2021-06-05	Mean : 189.9
		3rd Qu.:46105	3rd Qu.:2022-02-10	3rd Qu.: 273.1
		Max. :72153	Max. :2022-10-18	Max. :1000.0
				NA's :756252
percent_test_results_reported_positive_last_7_days	community_transmission_level	transmission_level.newcase		
Min. : 0.0	low : 482482	low : 459000		
1st Qu.: 3.8	moderate : 481022	moderate : 237929		
Median : 8.6	substantial: 392845	substantial: 360499		
Mean : 11.5	high :1846212	high :1411542		
3rd Qu.: 16.2	NA's : 22661	NA's : 756252		
Max. :100.0				
NA's :401338				
transmission_level.positivetest				
low : 898820				
moderate : 430224				
substantial: 237975				
high :1247524				
NA's : 410679				

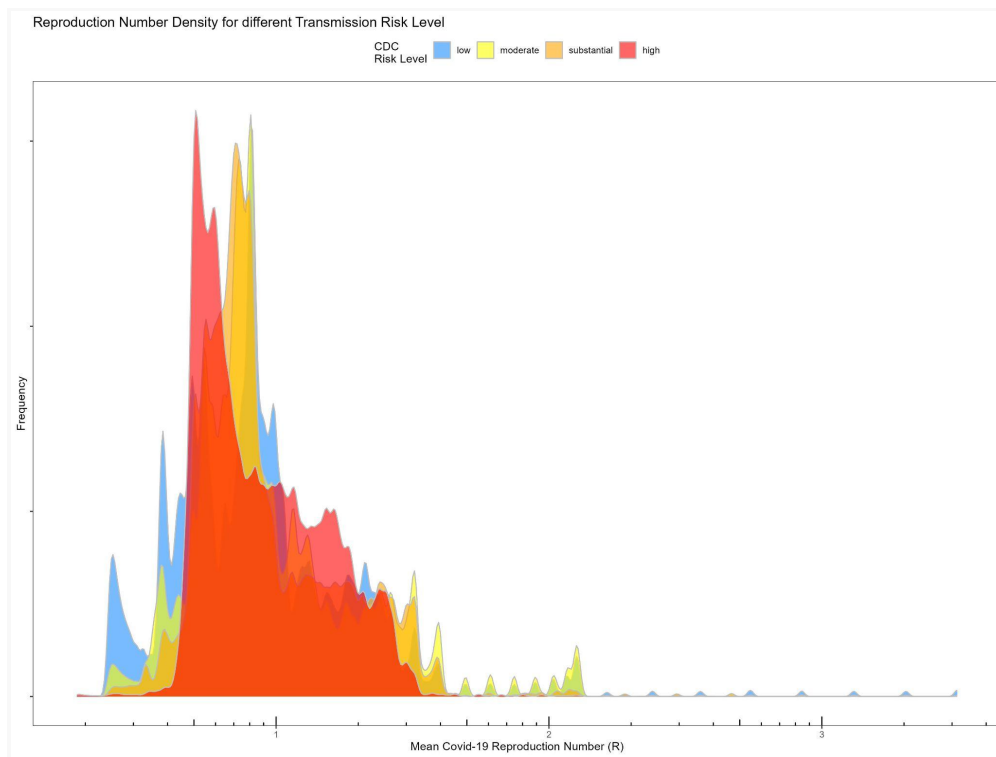
2. Harvard National and Subnational Estimates of the Covid 19 Reproduction Number (R) for the United States of America Based on Test Results

- start.date = "2021-11-30" to "2022-04-05" daily (limited time)
- State level
- Only estimate type have been used (not forecast)

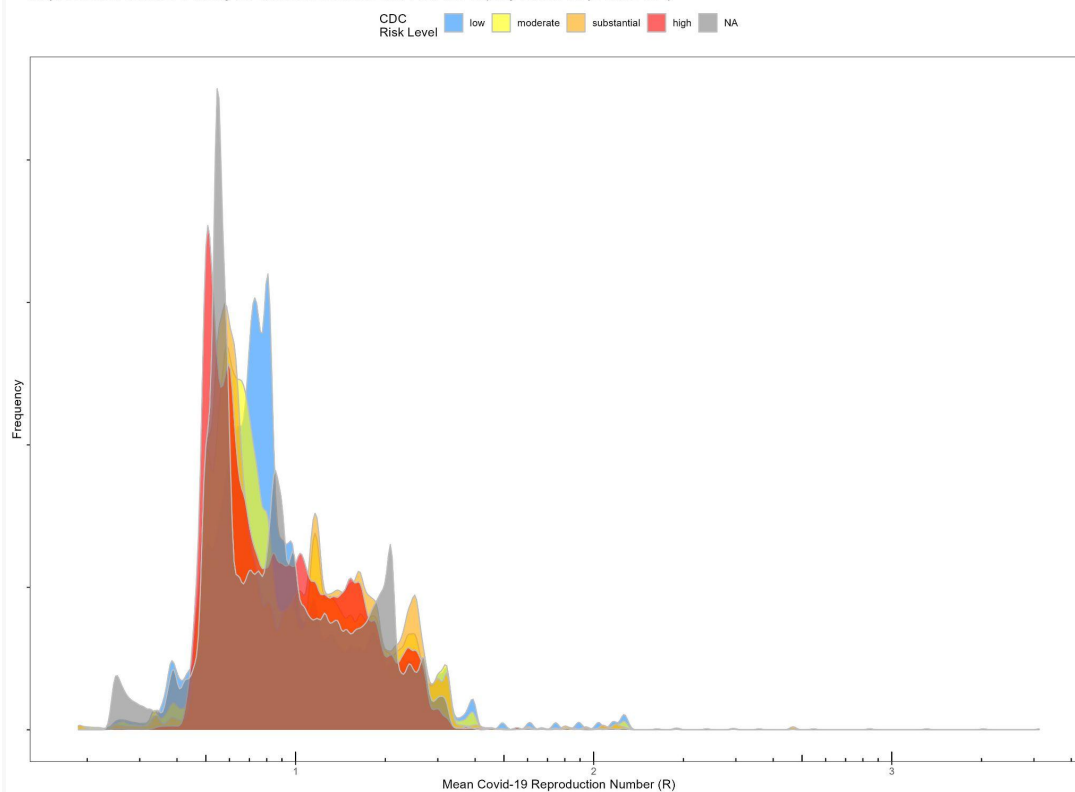
state	date	strat	type	median
Length:7110	Min. :2021-11-30	Mode:logical	:5878	Min. :0.2622
Class :character	1st Qu.:2021-12-31	NA's:7110	estimate based on partial data: 448	1st Qu.:0.7556
Mode :character	Median :2022-02-01		forecast : 784	Median :0.8914
	Mean :2022-02-01			Mean :0.9659
	3rd Qu.:2022-03-05			3rd Qu.:1.0919
	Max. :2022-04-05			Max. :4.3365

mean	sd	lower_90	lower_50	lower_20	upper_20
Min. :0.2697	Min. :0.02238	Min. :0.07467	Min. :0.1918	Min. :0.2368	Min. :0.2905
1st Qu.:0.7650	1st Qu.:0.07125	1st Qu.:0.60254	1st Qu.:0.6922	1st Qu.:0.7333	1st Qu.:0.7806
Median :0.9050	Median :0.09894	Median :0.72126	Median :0.8137	Median :0.8559	Median :0.9217
Mean :0.9790	Mean :0.14282	Mean :0.77370	Mean :0.8837	Mean :0.9342	Mean :0.9993
3rd Qu.:1.0973	3rd Qu.:0.14246	3rd Qu.:0.93048	3rd Qu.:1.0244	3rd Qu.:1.0670	3rd Qu.:1.1206
Max. :4.6928	Max. :2.02461	Max. :2.23625	Max. :3.2091	Max. :3.8719	Max. :4.8905

upper_50	upper_90
Min. :0.3362	Min. :0.4424
1st Qu.:0.8180	1st Qu.:0.9058
Median :0.9807	Median :1.1251
Mean :1.0590	Mean :1.2291
3rd Qu.:1.1828	3rd Qu.:1.3684
Max. :5.9191	Max. :8.6069



Reproduction Number Density for different Transmission Risk Level (only based on positive test)



Reproduction Number Density for different Transmission Risk Level (only based on new case)

