



Central Iowa COVID19 Update

Monday, October 19, 2020



Statistical Consulting

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Quick Stats¹

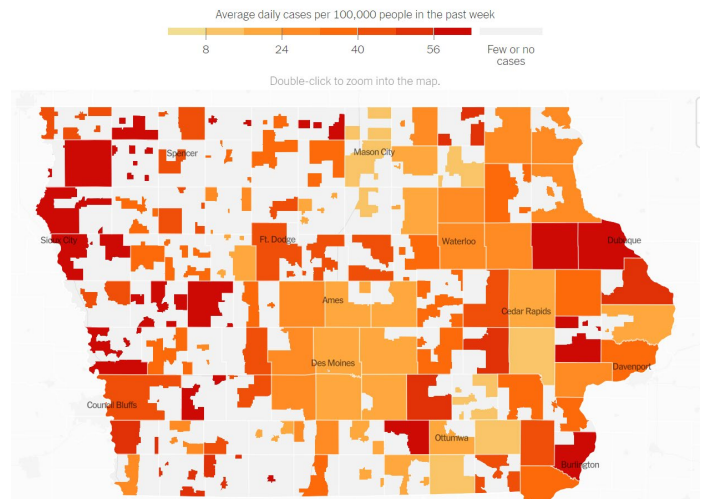
	Polk County	Iowa
7d Lab Test Positivity	7%	8%
14d Lab Test Positivity	7%	10%
Total cases per 100,000	147	228
Average daily cases the last 7d	103	1029
Average 7-day new cases per 100,000	21	33

¹All data are sourced from <https://coronavirus.iowa.gov/pages/case-counts> with previous days refreshed daily. When recent data are unavailable, data from <https://github.com/nytimes/covid-19-data> may be used. Population of Polk County used is 490,161. Population of Iowa used is 3.155 million. Averages and percent positivity are subject to change with retrospectively refreshed data.

Critical Points

- Covid-19 activity is increasing nationally. Iowa activity is still concentrated in the western half of the state, with pockets of hot spots throughout. At present, 18 counties have percent positivity above 15.
- Polk County is increasing with a rate per 100,000 of 147 for the past 7 days. Percent positivity is only slightly higher as testing continues to expand with the surge.
- Hospitalizations are the highest of any point in the outbreak at 501.

	TOTAL CASES	PER 100,000	CASES IN LAST 7 DAYS	PER 100,000	WEEKLY CASES PER CAPITA
					FEWER MORE
+ North Dakota MAP >	32,642	4,283	4,714	619	
+ South Dakota MAP >	33,836	3,825	4,705	532	
+ Montana MAP >	23,503	2,199	4,088	382	
+ Wisconsin MAP >	183,177	3,146	17,226	296	
+ Nebraska MAP >	58,068	3,002	5,686	294	
+ Idaho MAP >	54,123	3,029	4,937	276	
Guam	4,725	2,804	460	273	
+ Utah MAP >	95,562	2,981	8,550	267	
+ Wyoming MAP >	9,311	1,609	1,414	244	
+ Iowa MAP >	107,747	3,415	7,393	234	



NYT US Activity

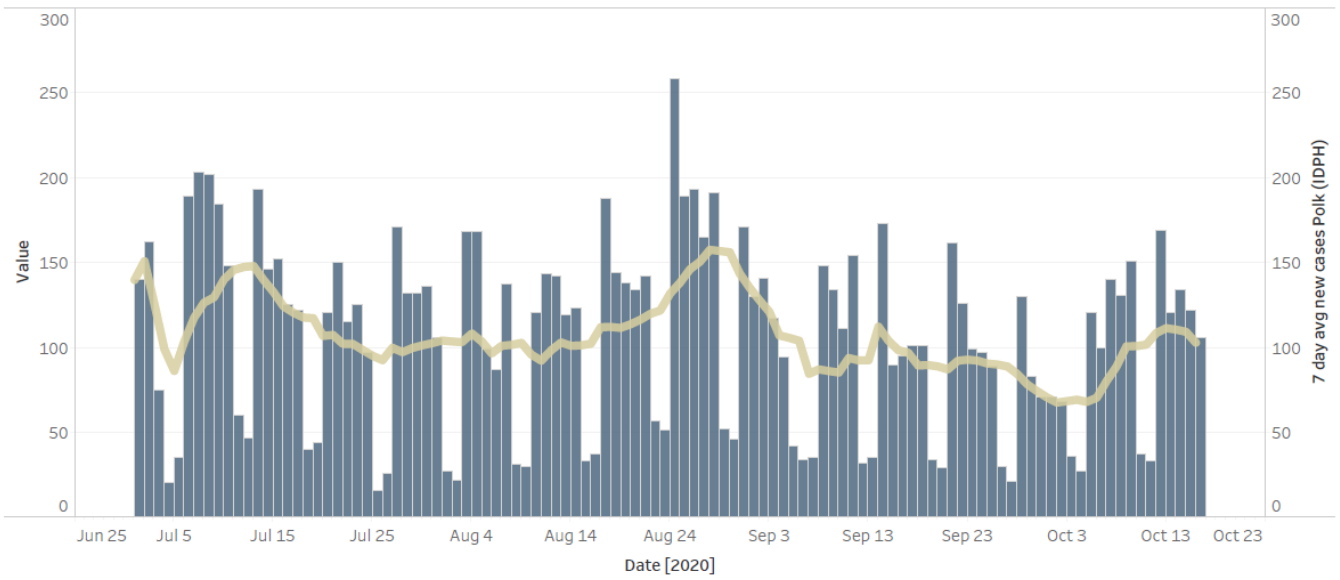
Research & Media

- School reopening in a Salt Lake City district resulted in more than 90 cases within two weeks. At the time of reopening, the county case rate was approximately 187 per 100,000.
- <https://www.nytimes.com/2020/10/18/us/coronavirus-schools-reopening-outbreak.html>
- The risk of contracting coronavirus disease 2019 (COVID-19) during air travel is lower than from an office building, classroom, supermarket, or commuter train.
- <https://jamanetwork.com/journals/jama/fullarticle/2771435>
- A recent study demonstrated universal reduction in COVID-19 spread in 46/51 US jurisdictions prior to relaxing stay at home and other mobility orders. After relaxation of social distancing, the rate of transmission began increasing reaching a mean of 1.16 eight weeks later in all but 9 jurisdictions.
- <https://academic.oup.com/cid/advance-article/doi/10.1093/cid/ciaa1502/5917573>
- Median survival of COVID-19 on human skin is about 9-hours, but the virus completely inactivated with 15-second use of 80% ethanol-based hand sanitizer.
- <https://academic.oup.com/cid/advance-article/doi/10.1093/cid/ciaa1517/5917611>
- <https://www.nature.com/articles/s41591-020-1083-1>

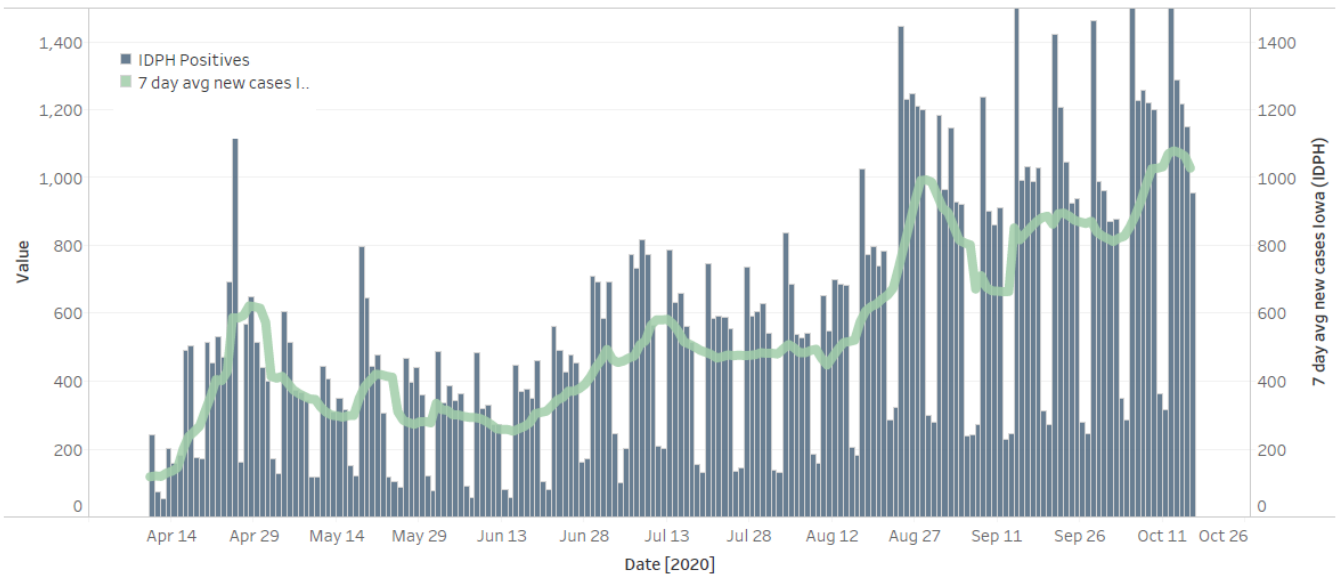
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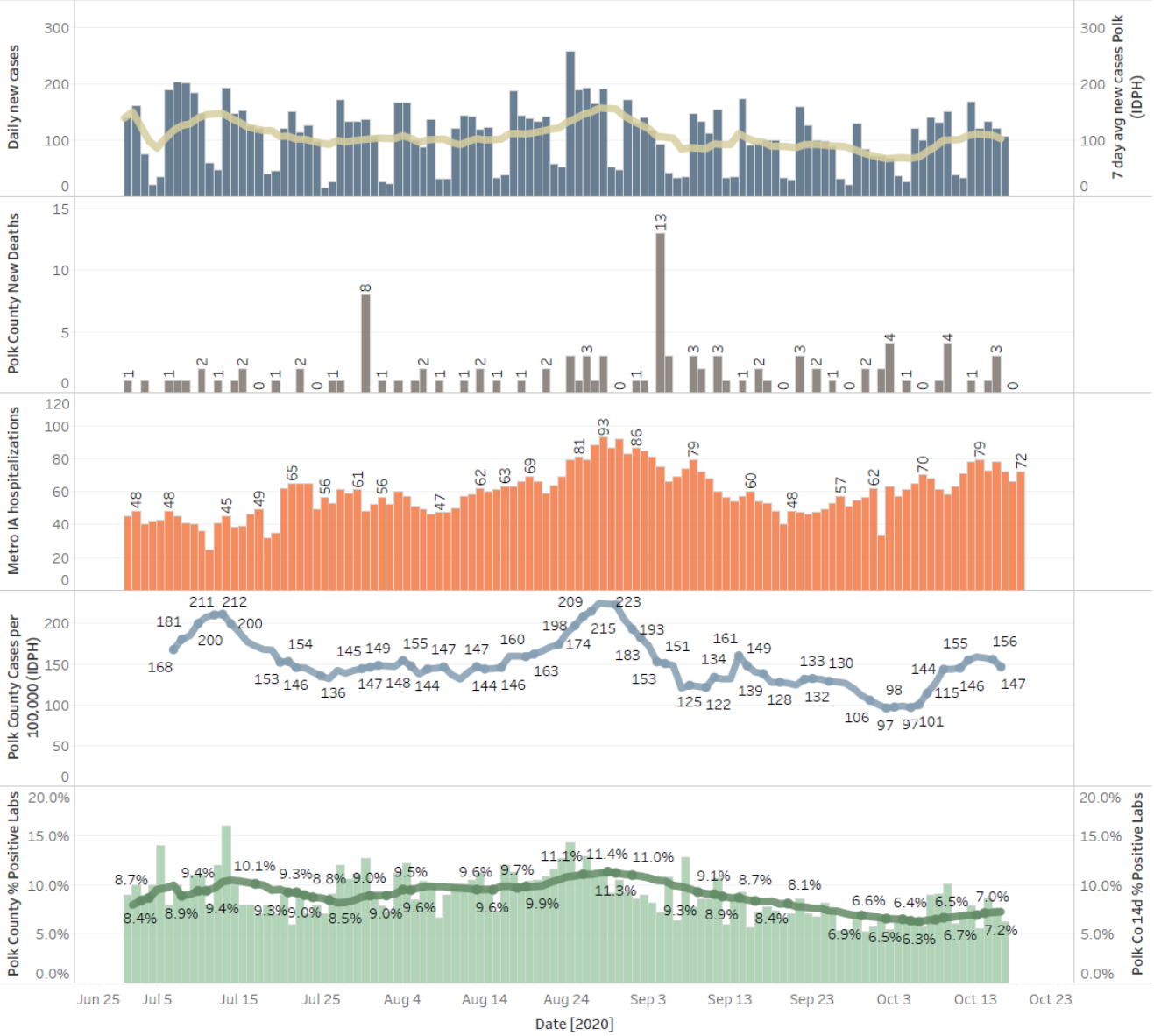
Polk County Cases by Day and 7d Moving Average



Iowa Cases by Day and 7d Moving Average



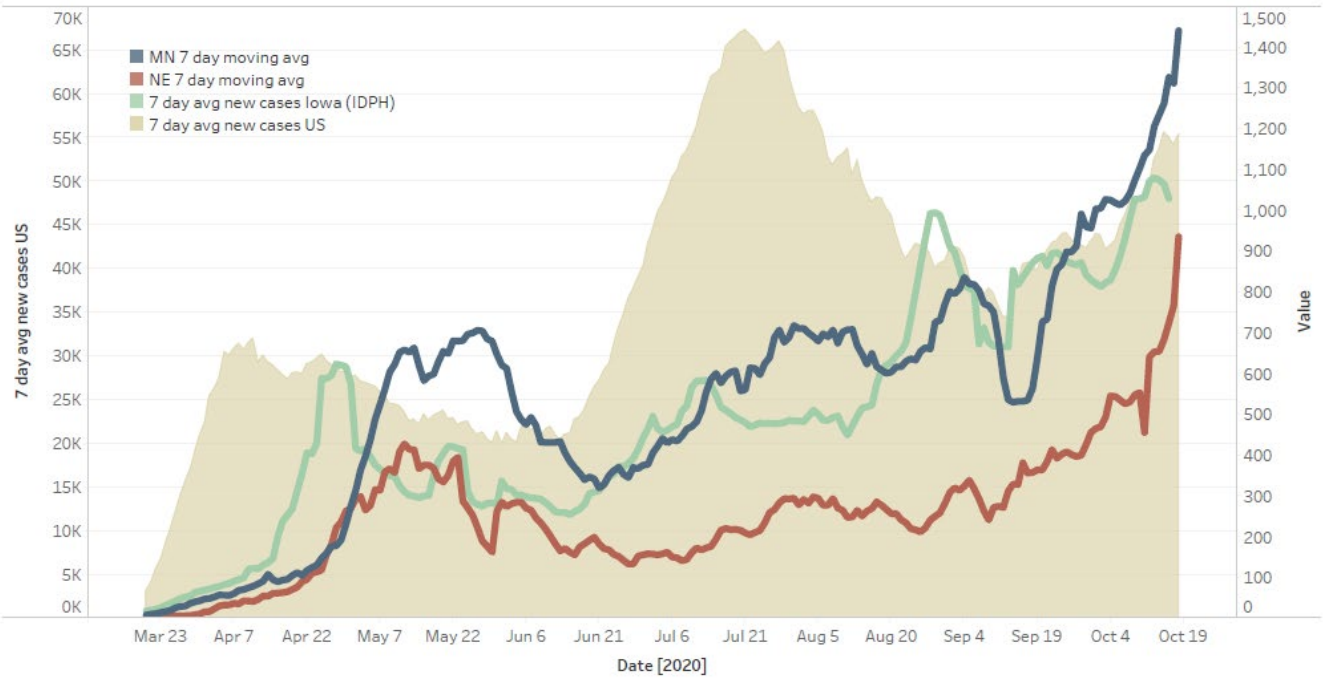
Polk County Activity View



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US and Border State Cases



US, Iowa, MN, NE New Daily Cases

