



# Central Iowa COVID19 Update

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## Quick Stats

	Polk County	Iowa
7d Lab Test Positivity <sup>1</sup>	7%	8%
14d Lab Test Positivity <sup>1</sup>	9%	10%
Total cases per 100,000 <sup>2</sup>	159	219
Average daily cases the last 7d <sup>3</sup>	111	802

<sup>1</sup>Daily positivity is taken directly from <https://coronavirus.iowa.gov/pages/case-counts> with previous days refreshed daily.

<sup>2</sup>Case counts are drawn from <https://github.com/nytimes/covid-19-data> with totals aligned with state totals. Population used is 490,161.

<sup>3</sup>Average cases are drawn from <https://github.com/nytimes/covid-19-data> with totals aligned with state totals.

## Critical Points

- Polk County and Iowa cases remain high, but decreasing.
- Iowa and the Dakotas still have the highest case counts per capita.
- In order for Polk County to drop to 100 cases or lower per 100,000 (the past 7 days), the average daily case count needs to be 70 or lower.
- Conversely, in order for Polk County to reach 15% positivity, the county would have to average 1200 tests per day and 180 new cases per day. That rate would result in 284 cases per 100,000.

### Cases and deaths by state and county

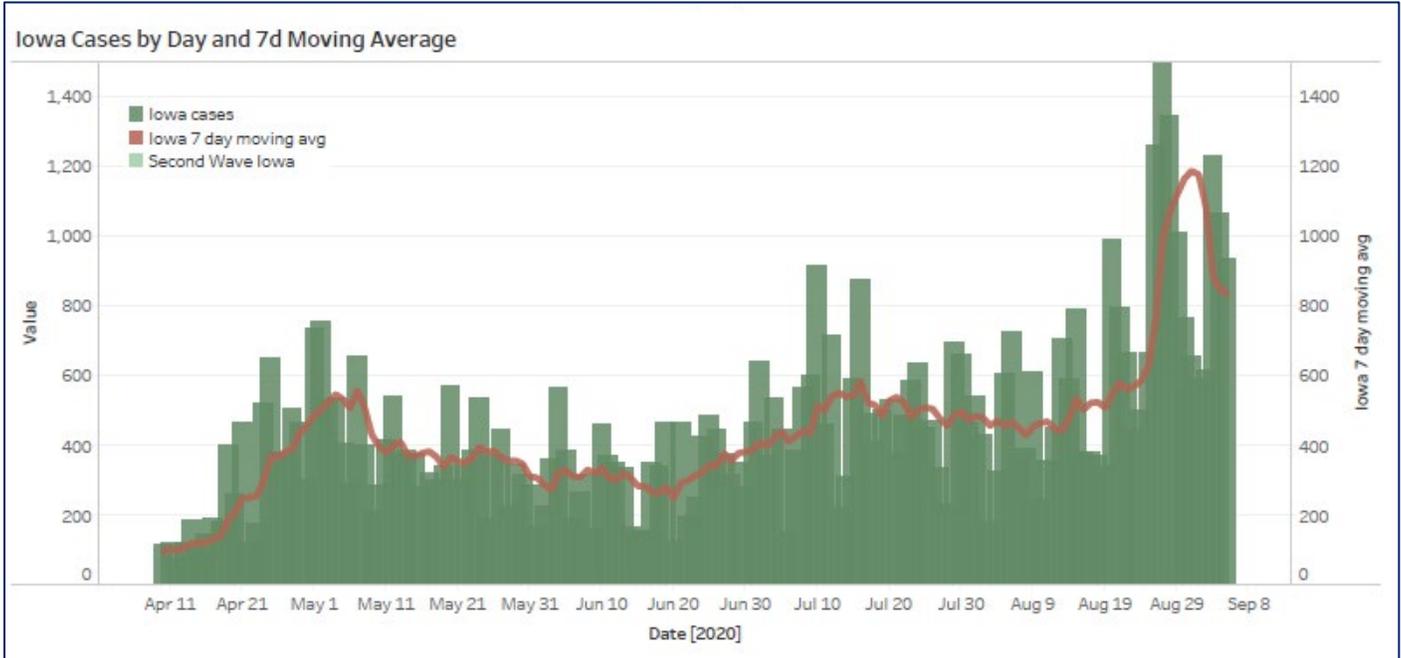
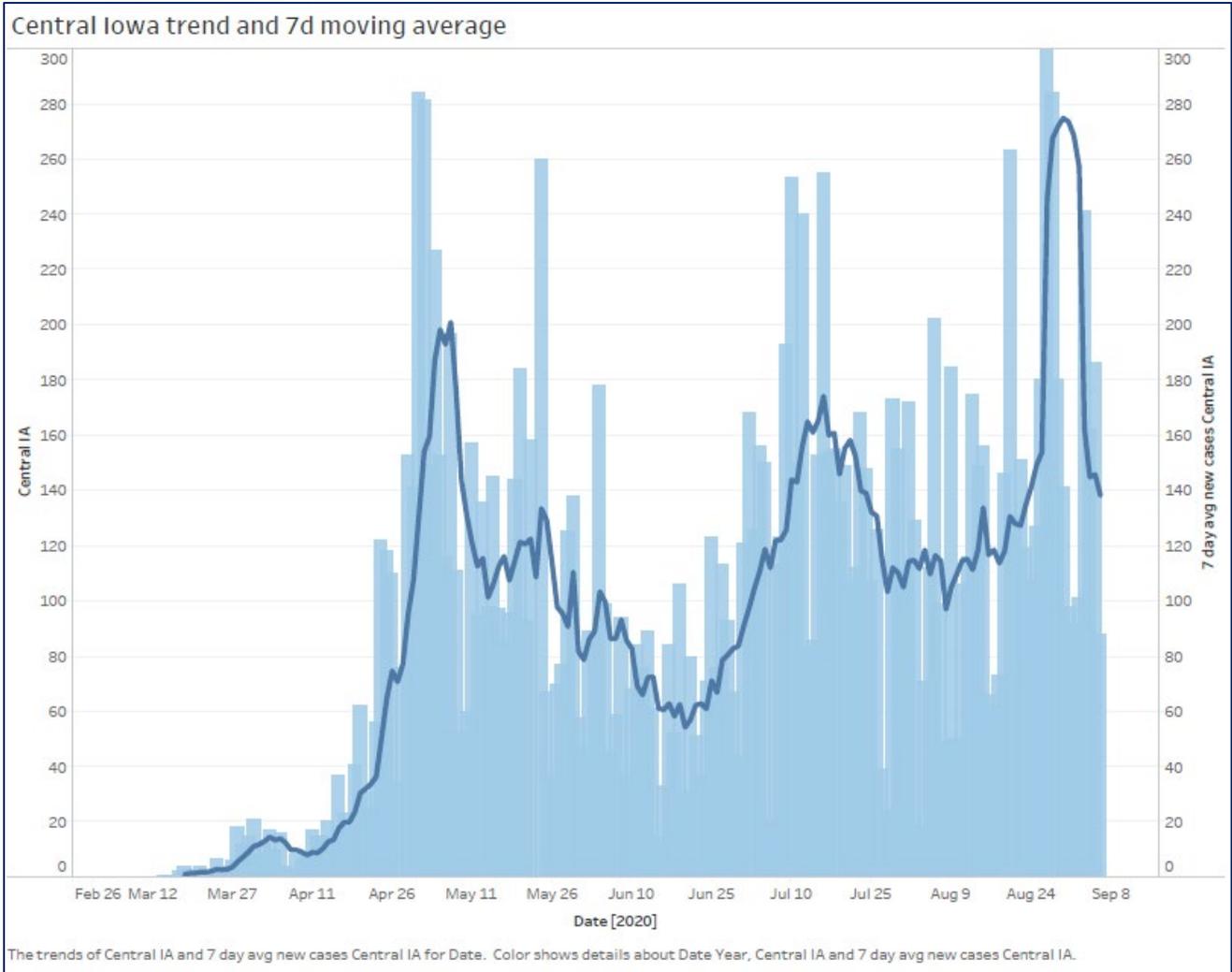
This table is sorted by places with the most cases per 100,000 residents in the last seven days. Charts are colored to reveal when outbreaks emerged.

	TOTAL CASES	PER 100,000	CASES IN LAST 7 DAYS	▼ PER 100,000	WEEKLY CASES PER CAPITA
					FEWER MORE
North Dakota MAP »	13,635	1,789	1,850	243	
South Dakota MAP »	15,109	1,708	1,947	220	
Guam	2,588	1,536	332	197	
Iowa MAP »	69,958	2,217	5,854	186	
Alabama MAP »	131,803	2,688	7,914	161	
Missouri MAP »	93,583	1,525	9,689	158	
Tennessee MAP »	159,893	2,341	10,583	155	
Mississippi MAP »	86,888	2,919	4,449	149	
Oklahoma MAP »	63,607	1,607	5,834	147	
Arkansas MAP »	64,690	2,144	4,312	143	

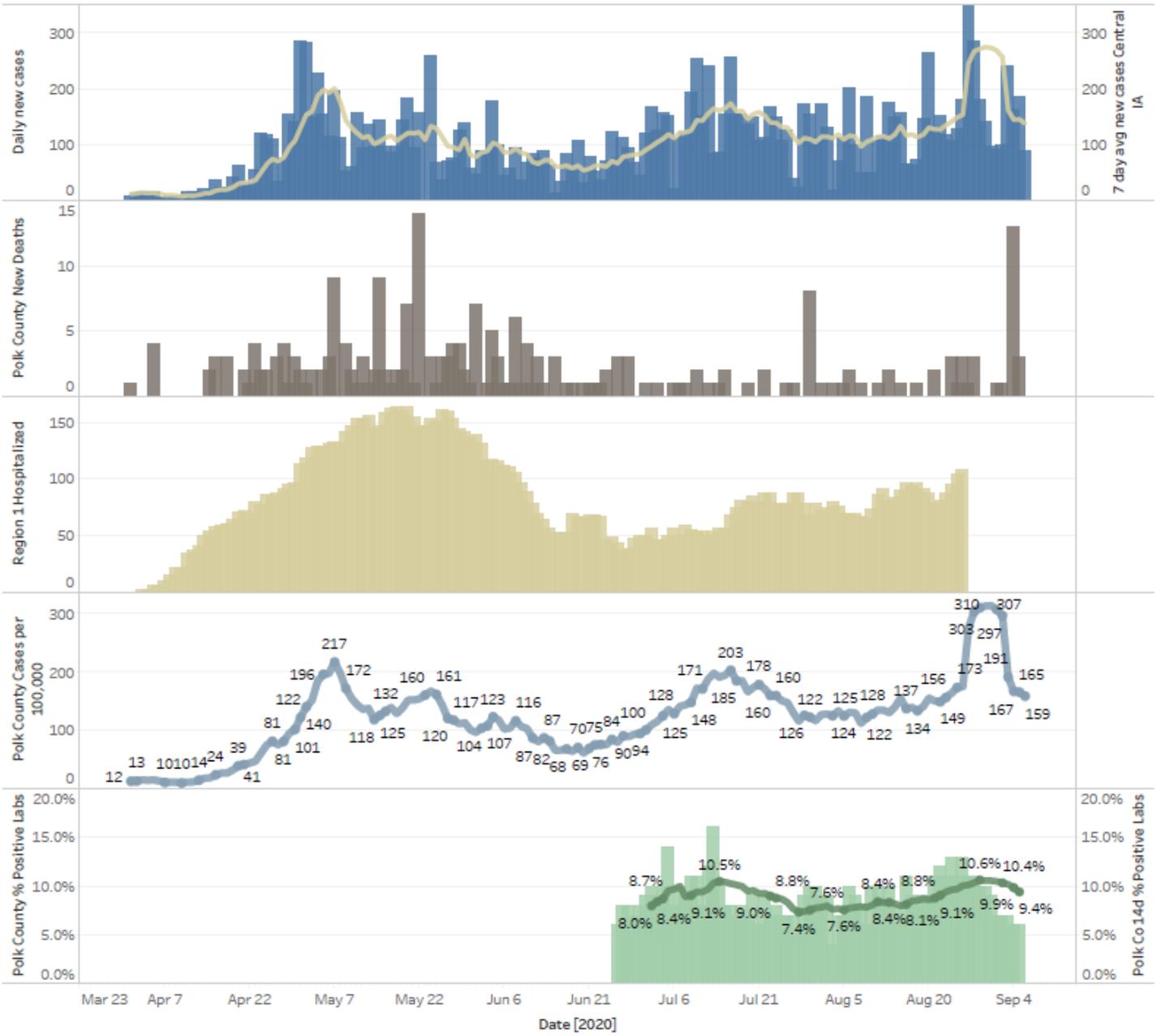
## Research & Media

- Multiple media outlets are reporting the potential for a COVID-19 vaccine by the end of October. It is likely only small amounts will be available at first, with the majority of the population vaccinated by mid-2021; the world target is two billion doses by the end of 2021.
  - Both frontrunner vaccines are mRNA, which is a new type of vaccine. The vaccine works by targeting the S protein and its variants, as the primary antigen.
  - <https://www.nature.com/articles/d41573-020-00151-8>
- Iowa surpassed 70,000 cases this weekend.
- <https://www.kcci.com/article/iowa-coronavirus-data-september-7/33942517>
- A large-scale population study in Iceland had multiple findings – immunity was generally retained for at least four months, 0.3% of infections resulted in death, and 44% of infections were not diagnosed by PCR.
- [https://www.nejm.org/doi/full/10.1056/NEJMoa2026116?query=featured\\_coronavirus](https://www.nejm.org/doi/full/10.1056/NEJMoa2026116?query=featured_coronavirus)

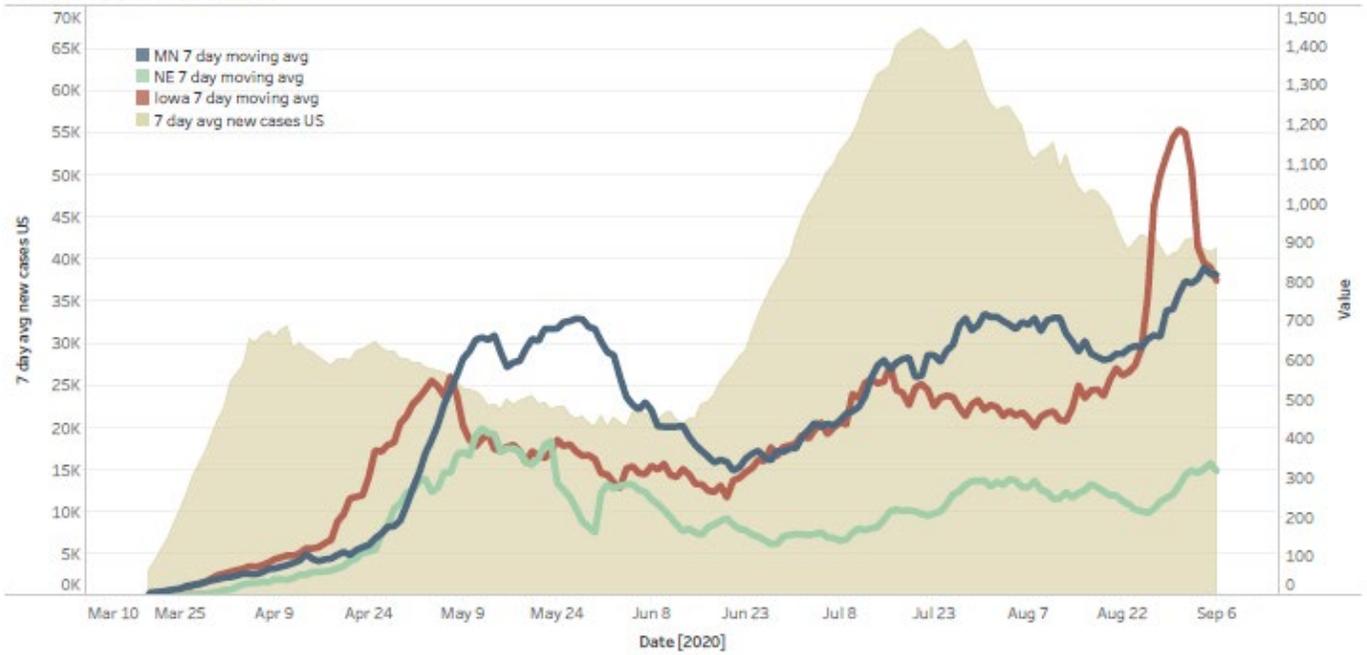
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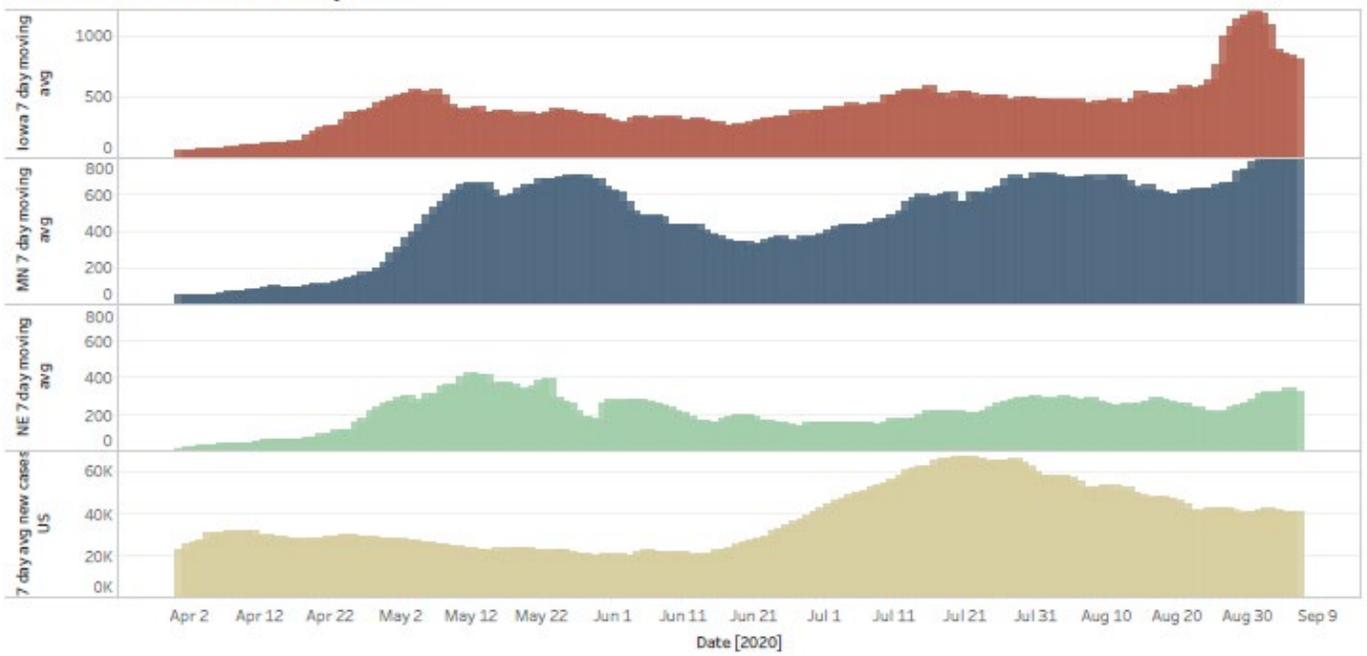
# Polk County Activity View



### US and Border State Cases

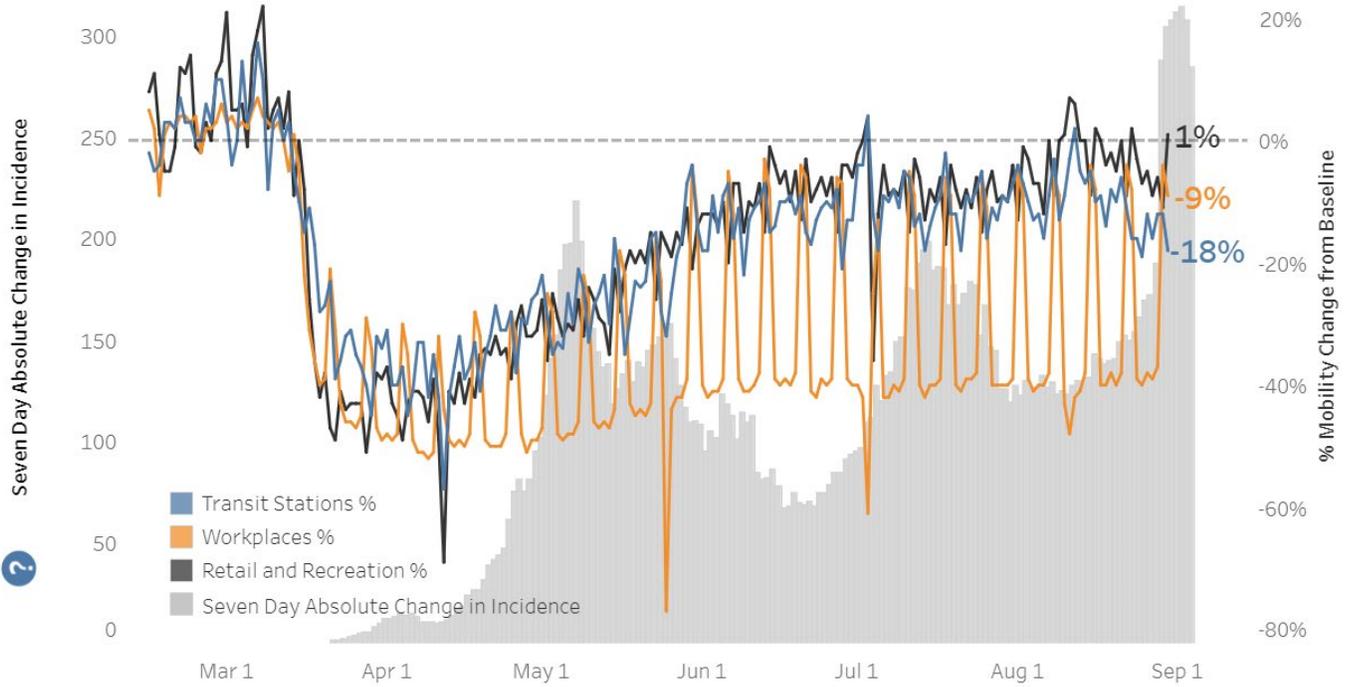


### US, Iowa, MN, NE New Daily Cases





### Polk County, IA



<p><b>WORKPLACES</b></p> <p><b>-9%</b></p>	
<p><b>RETAIL AND RECREATION</b></p> <p><b>1%</b></p>	
<p><b>TRANSIT STATIONS</b></p> <p><b>-18%</b></p>	
<p><b>% AT HOME</b></p> <p><b>25%</b></p>	
<p><b>MOBILITY INDEX</b></p> <p><b>3.8</b></p>	