

## Michigan June 5, 2020

## Mobility changes

This dataset is intended to help remediate the impact of COVID-19. It shouldn't be used for medical diagnostic, prognostic, or treatment purposes. It also isn't intended to be used for guidance on personal travel plans.

Each Community Mobility Report dataset is presented by location and highlights the percent change in visits to places like grocery stores and parks within a geographic area. How to use this report.

Location accuracy and the understanding of categorized places varies from region to region, so we don't recommend using this data to compare changes between countries, or between regions with different characteristics (e.g. rural versus urban areas).

We'll leave a region out of the report if we don't have statistically significant levels of data. To learn how we calculate these trends and preserve privacy, read About this data.

Retail & recreation

-24%

compared to baseline

+80% +40% Baseline -40% -80% Fri, Apr 24 Fri, May 15

+80%

+40%

-40%

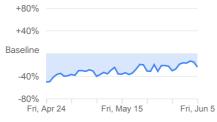
-80% Fri. Apr 24

Baseline

Mobility trends for places like restaurants, cafes, shopping centers, theme parks, museums, libraries, and movie theaters.

Grocery & pharmacy

compared to baseline

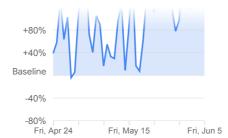


Fri. Jun 5

Mobility trends for places like grocery markets, food warehouses, farmers markets, specialty food shops, drug stores, and pharmacies.

**Parks** 

compared to baseline



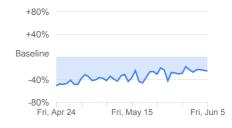
Fri. May 15

Mobility trends for places like national parks, public beaches, marinas, dog parks, plazas, and public gardens.

Transit stations

-24%

compared to baseline



Mobility trends for places like public transport hubs such as subway, bus, and train stations.

Workplaces

-39%

compared to baseline

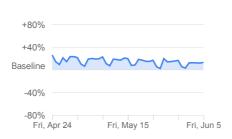


Mobility trends for places of work.

Residential

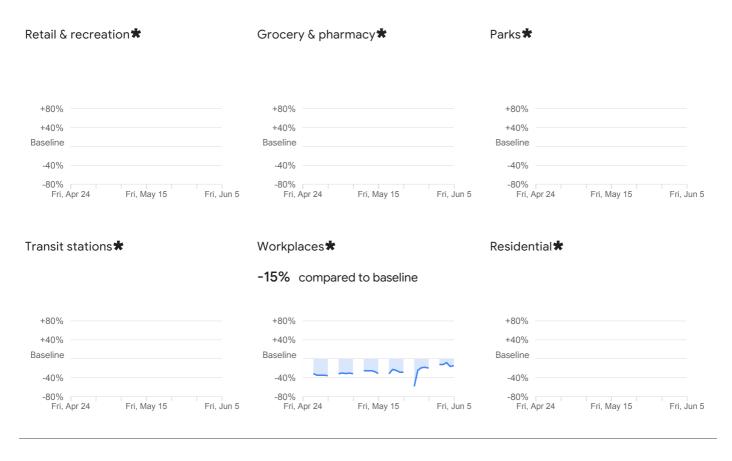
+13%

compared to baseline

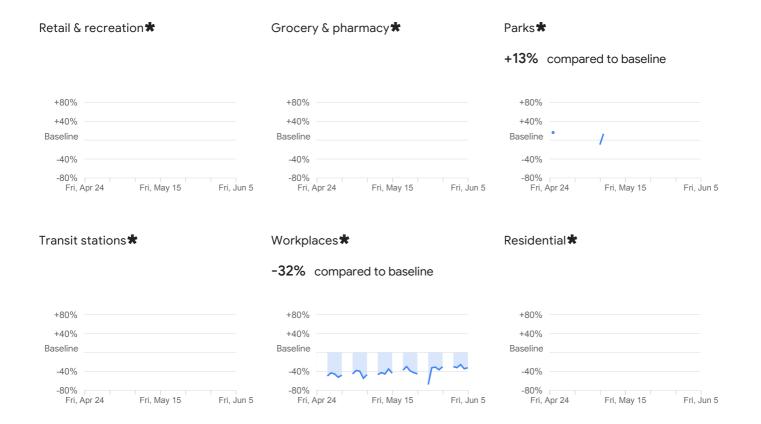


Mobility trends for places of residence.

## Alcona County

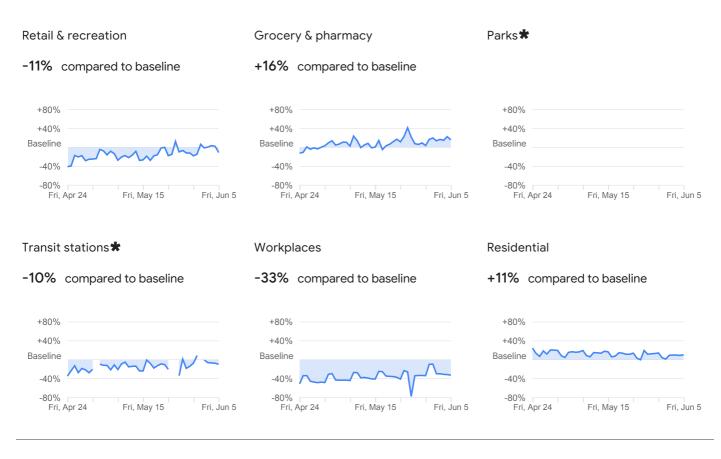


## **Alger County**

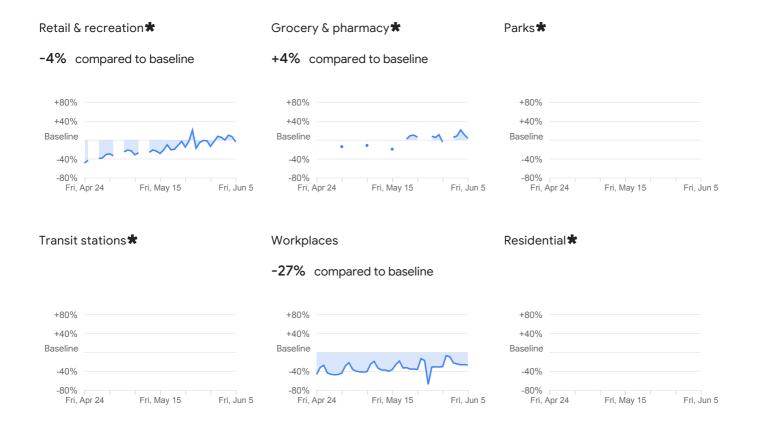


<sup>\*</sup> **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

## Allegan County

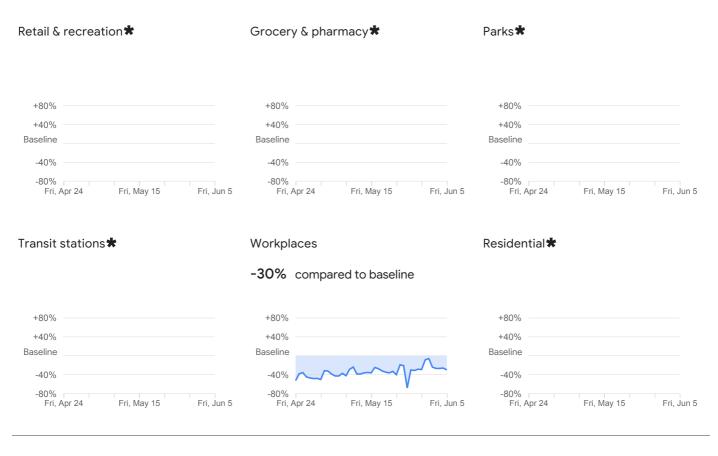


# Alpena County

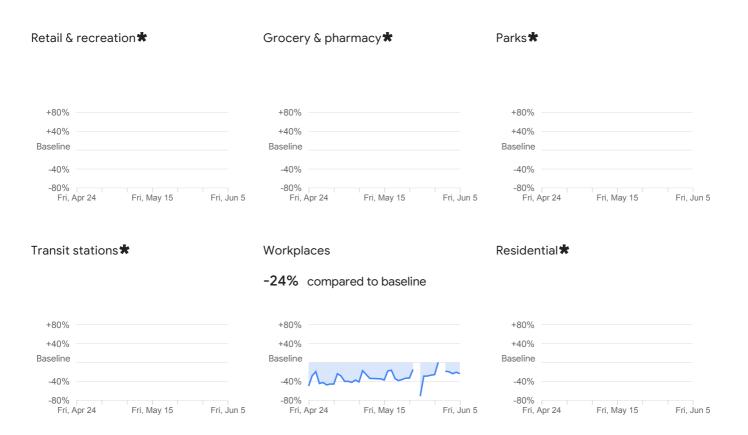


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## **Antrim County**

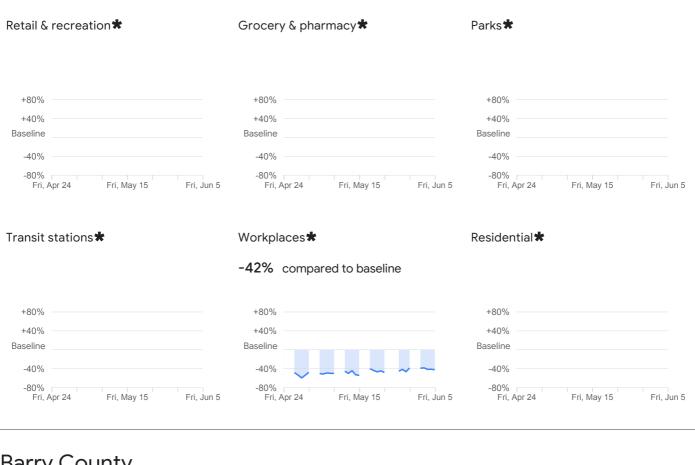


## **Arenac County**

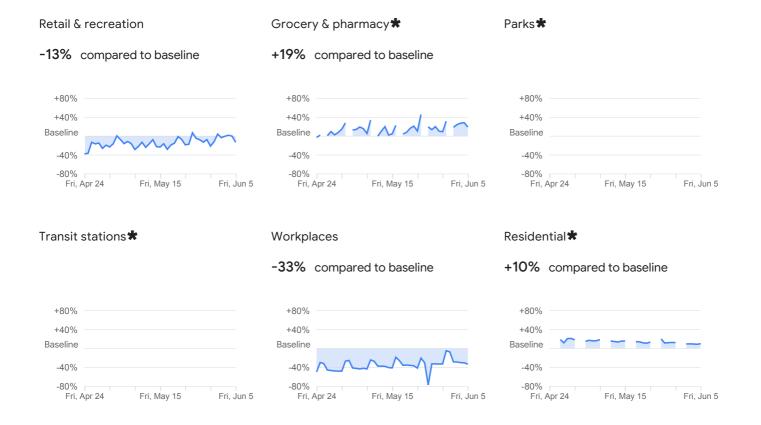


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#### Baraga County

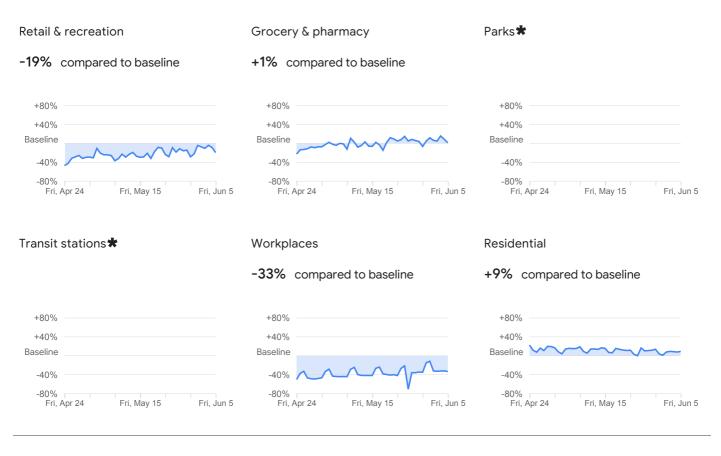


## **Barry County**

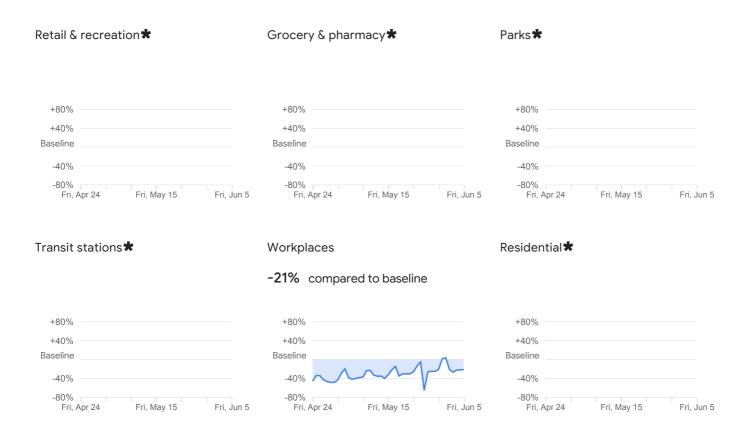


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## **Bay County**

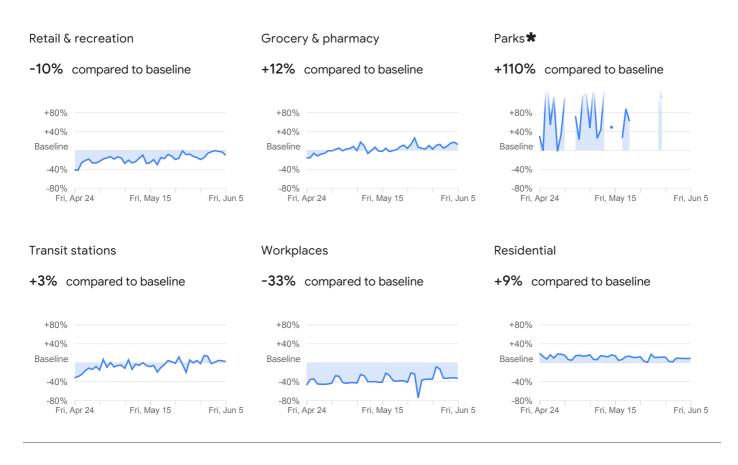


## **Benzie County**

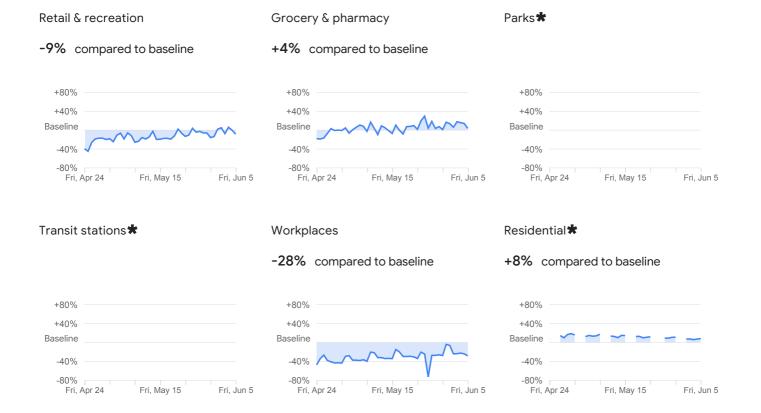


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## **Berrien County**

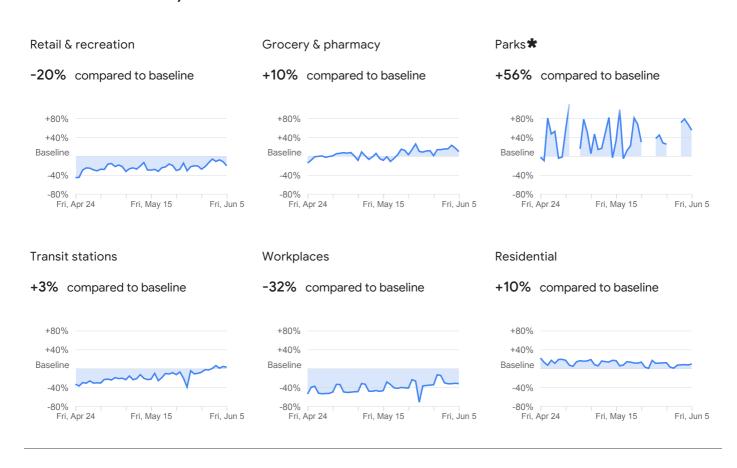


## **Branch County**

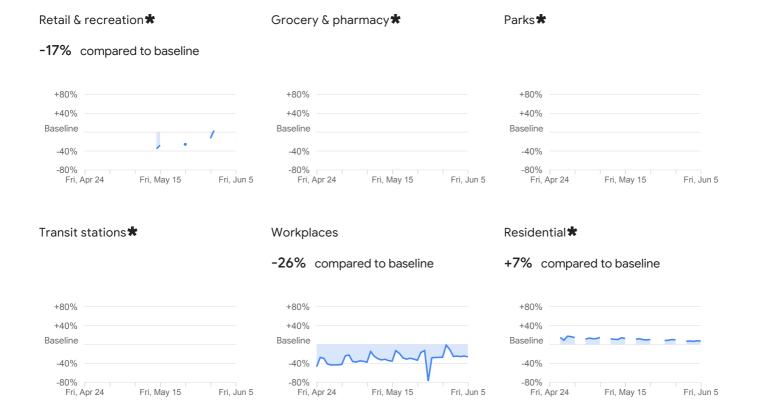


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## Calhoun County

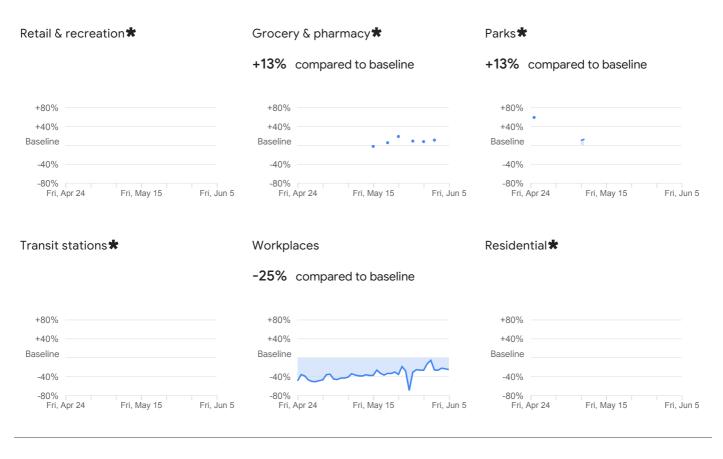


## Cass County

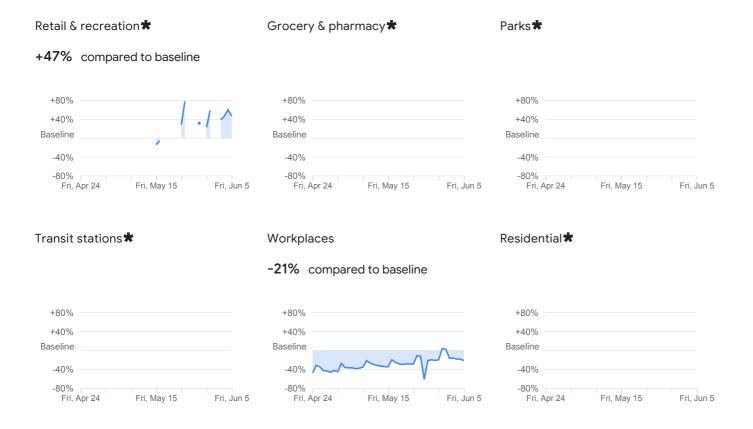


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## Charlevoix County

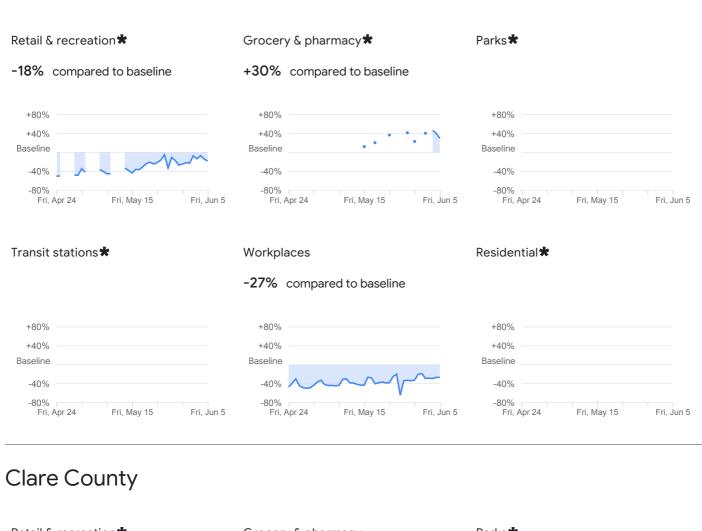


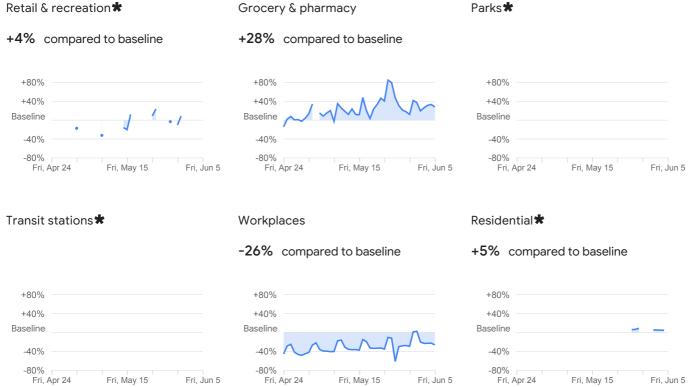
## Cheboygan County



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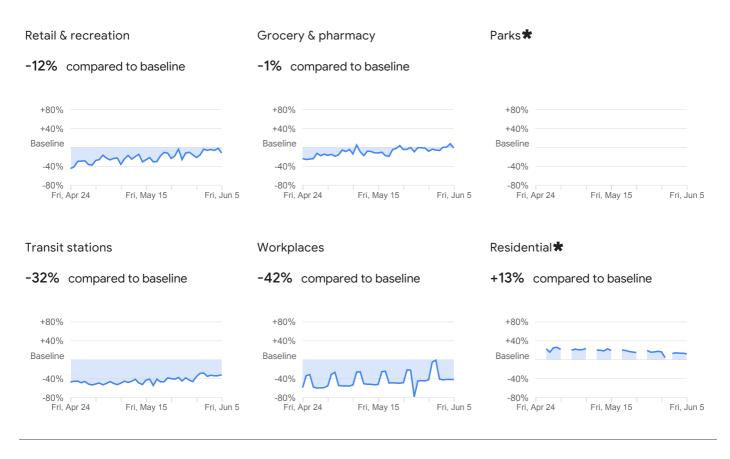
## Chippewa County



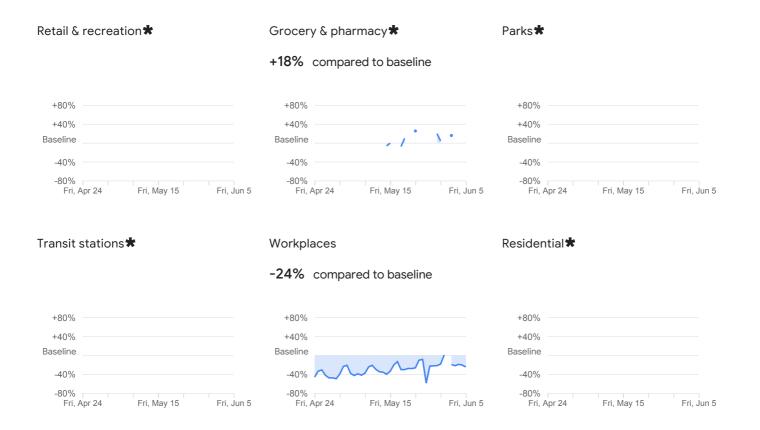


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## **Clinton County**

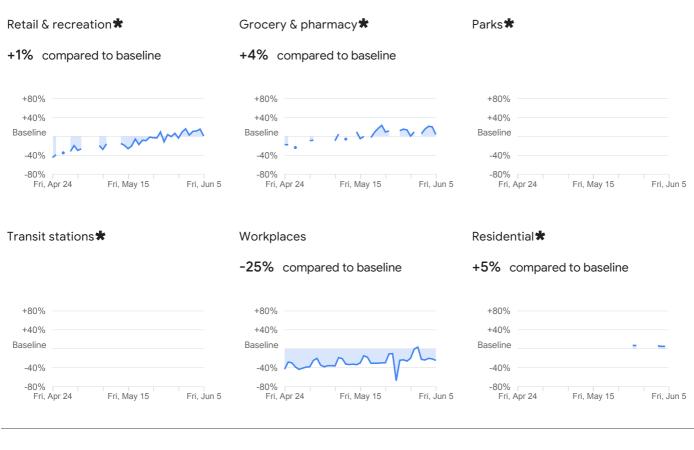


## **Crawford County**

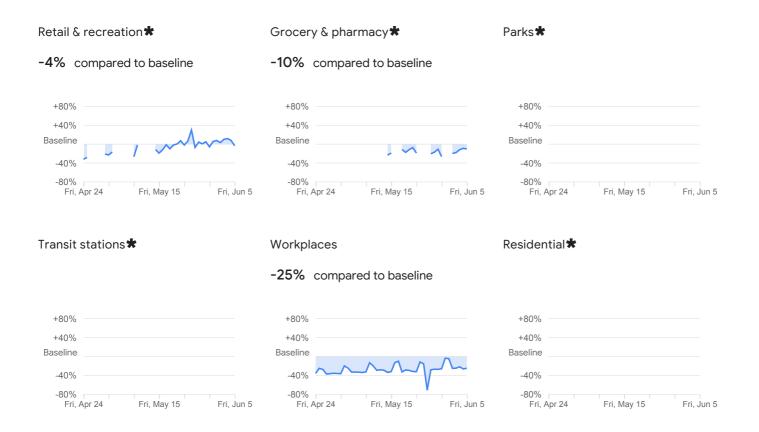


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## **Delta County**

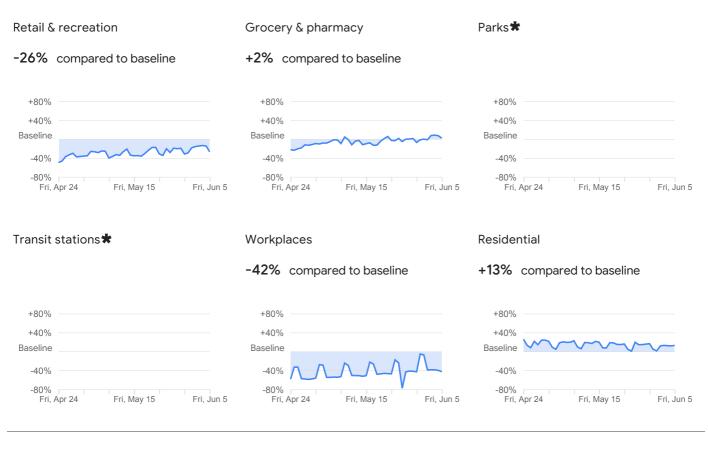


# **Dickinson County**

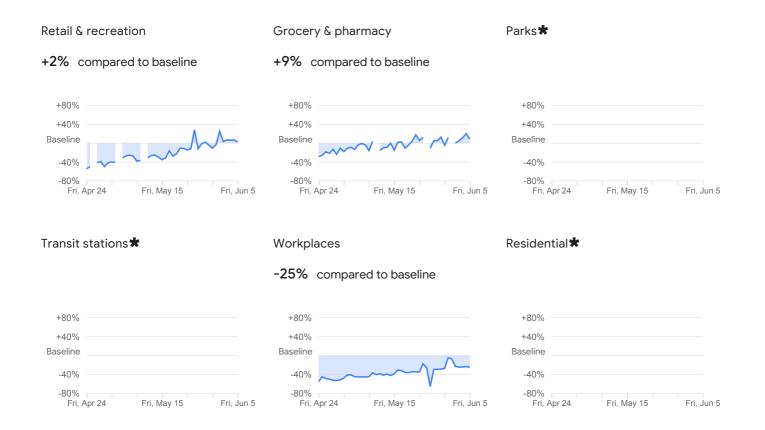


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## **Eaton County**

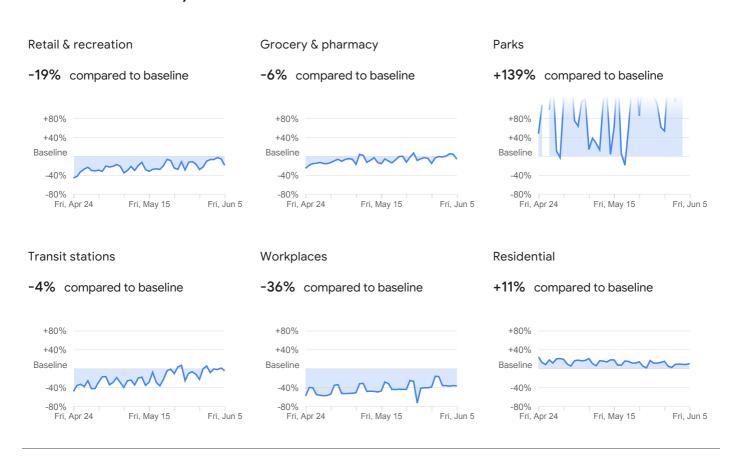


## **Emmet County**

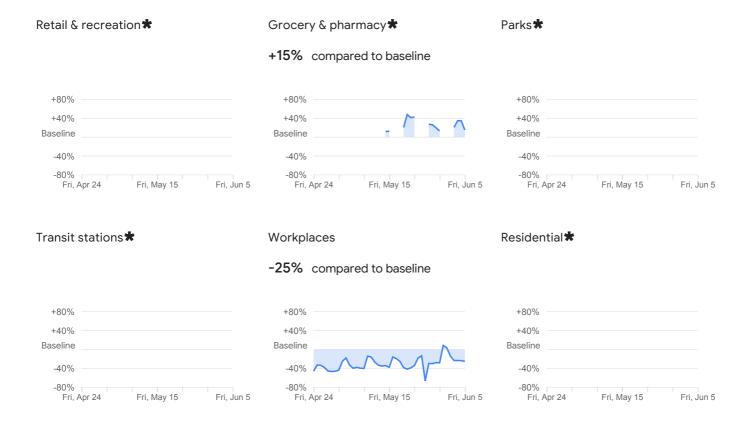


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## Genesee County

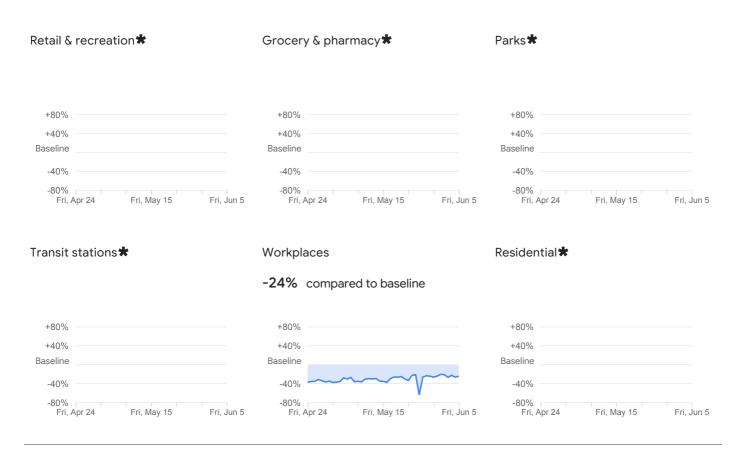


## Gladwin County

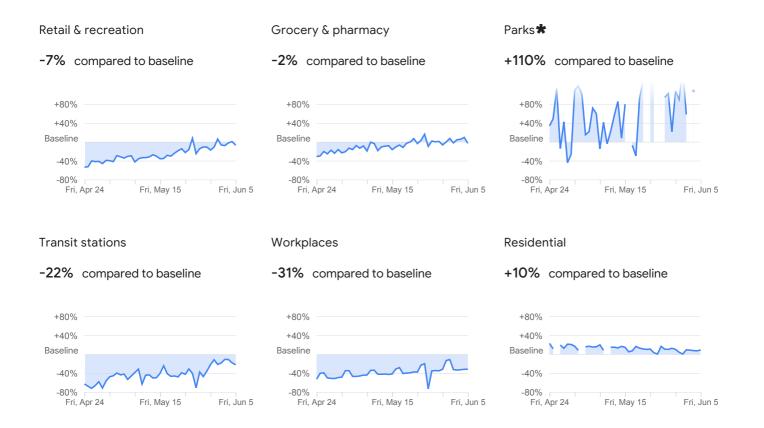


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## **Gogebic County**

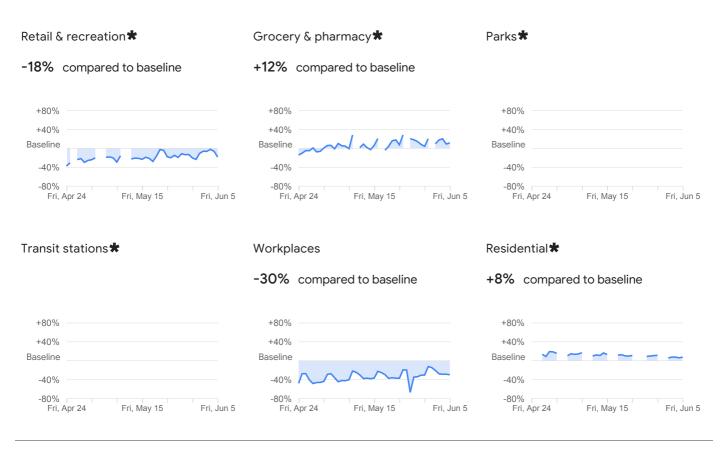


## **Grand Traverse County**

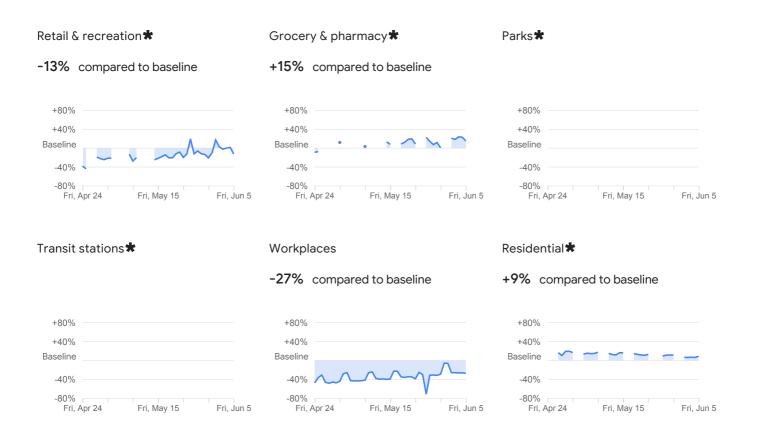


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## **Gratiot County**

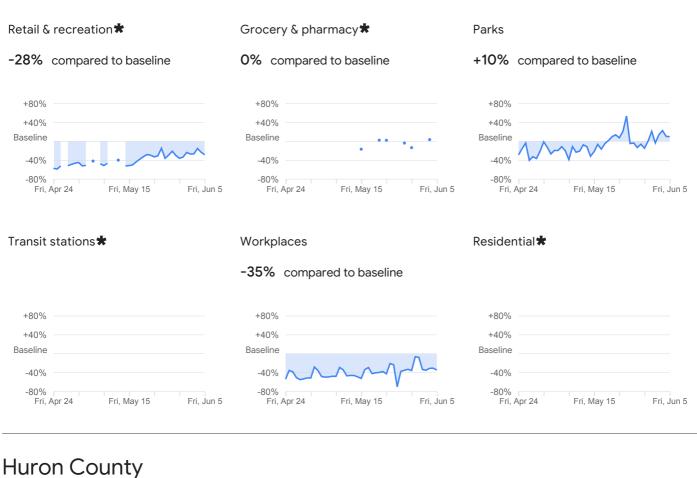


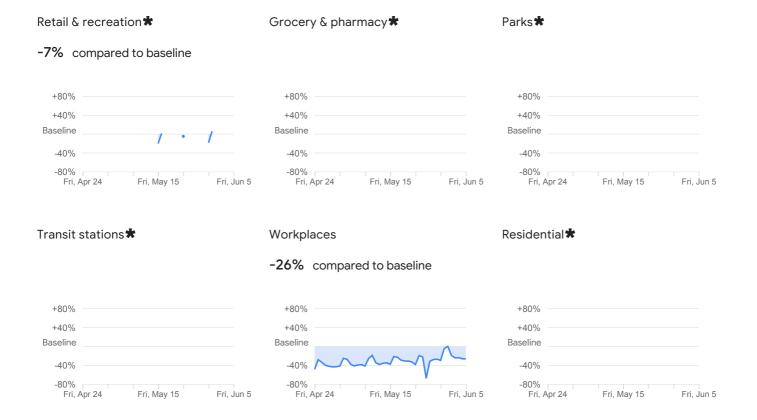
## Hillsdale County



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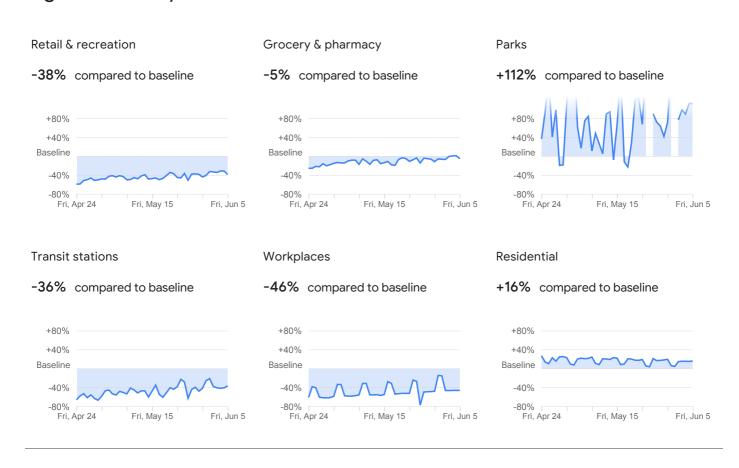
## **Houghton County**



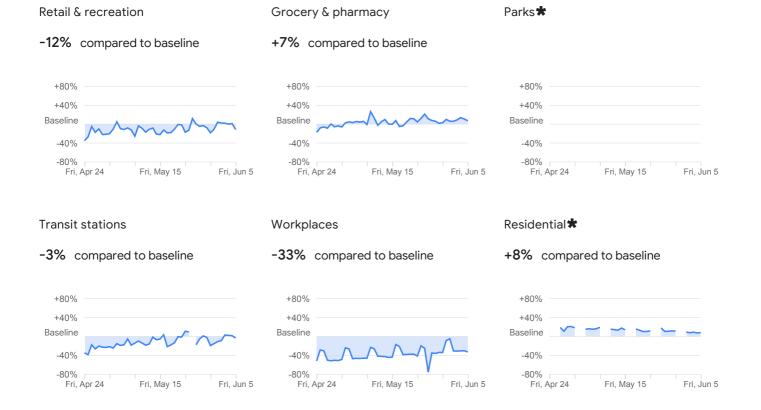


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## Ingham County

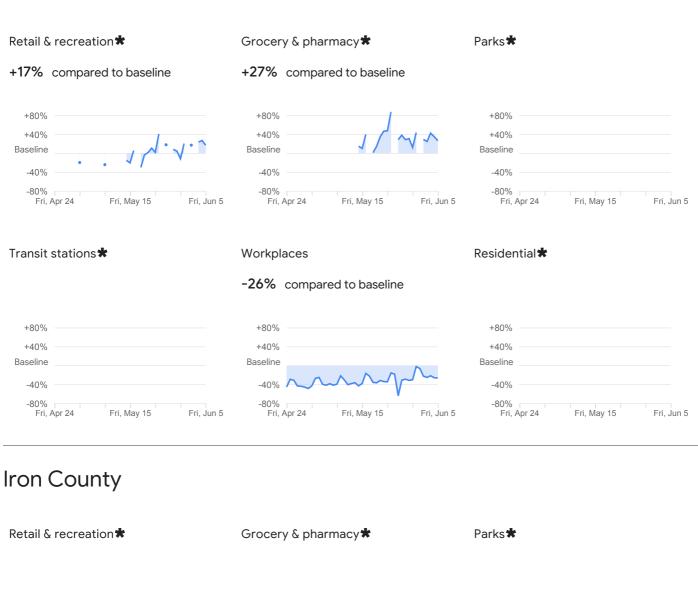


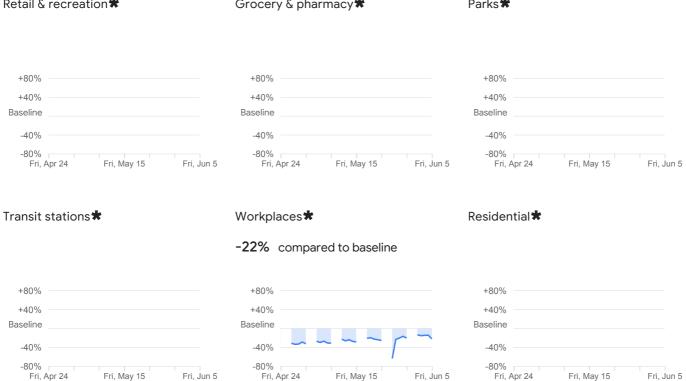
## Ionia County



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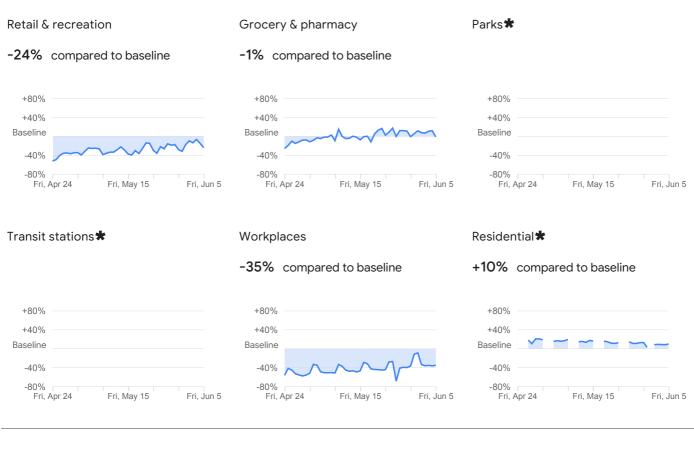
## **losco County**



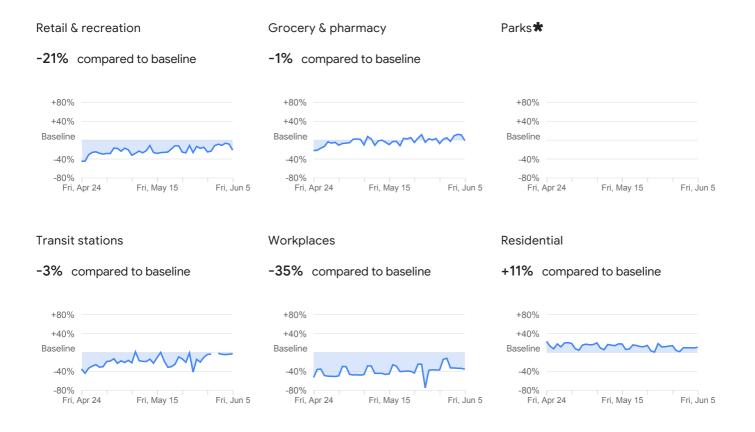


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## Isabella County

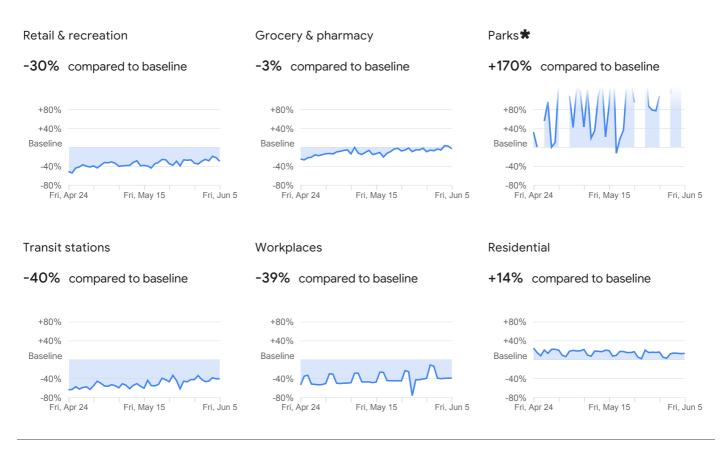


## **Jackson County**

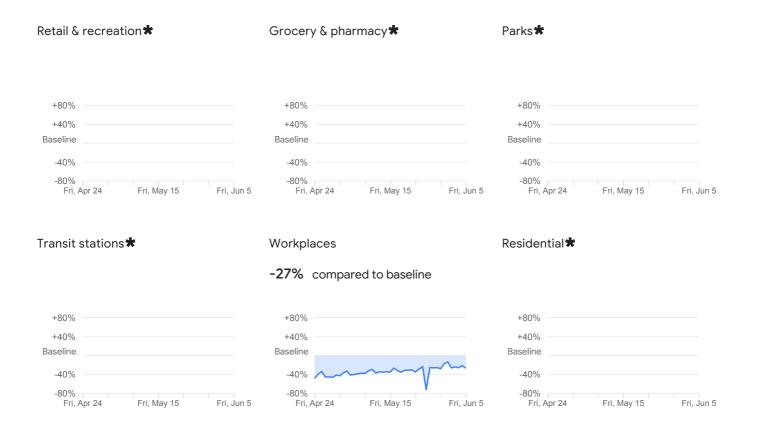


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## Kalamazoo County

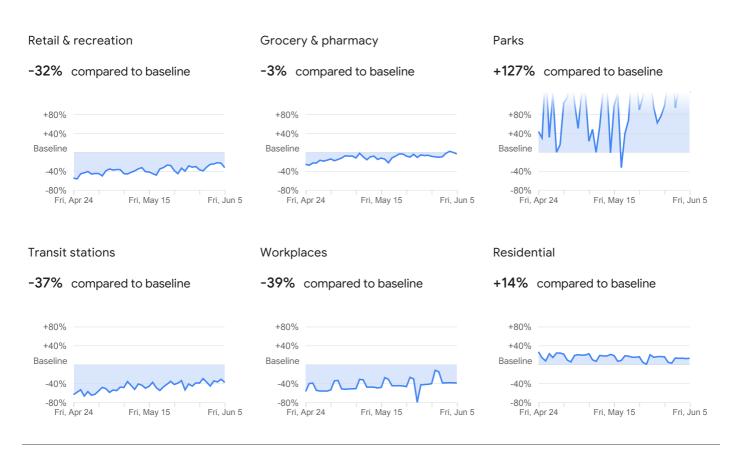


## Kalkaska County

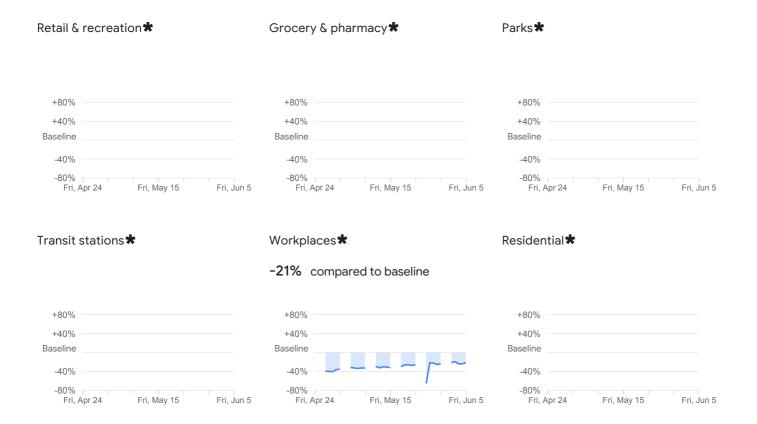


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## Kent County

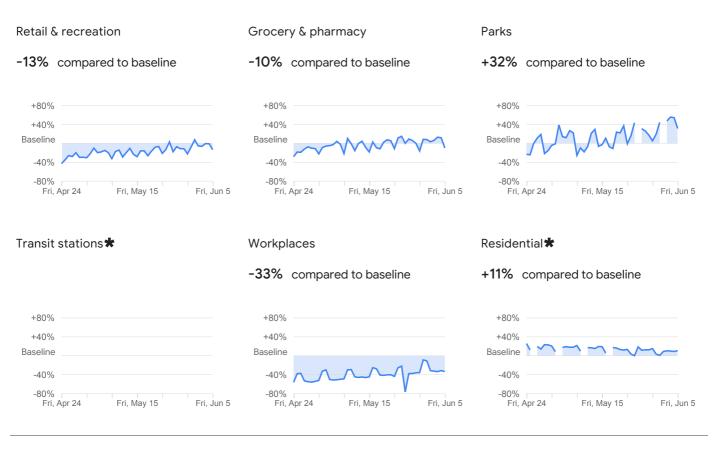


## Lake County

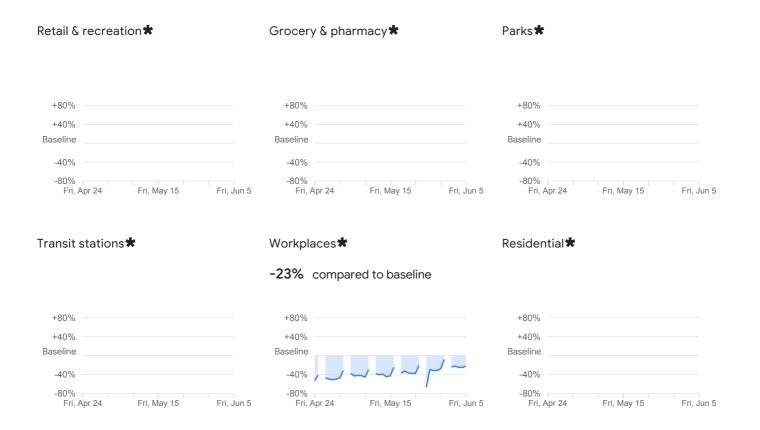


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## **Lapeer County**

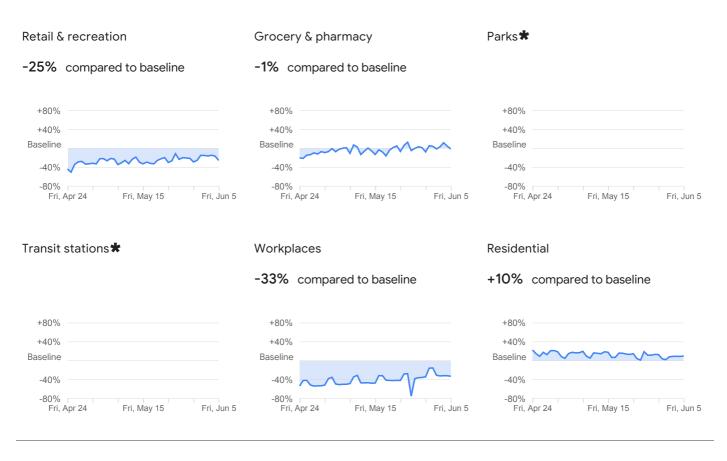


## Leelanau County

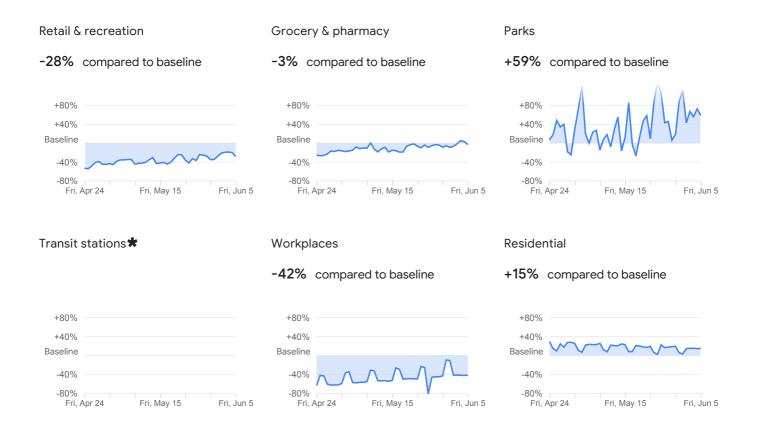


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## Lenawee County

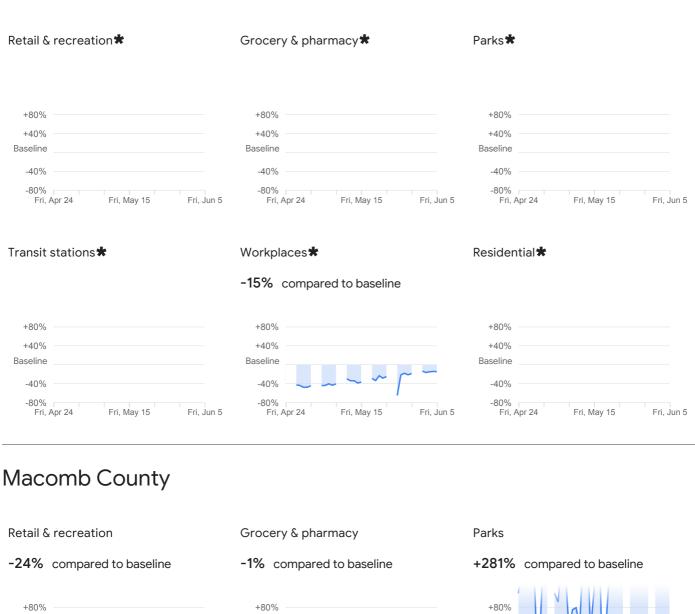


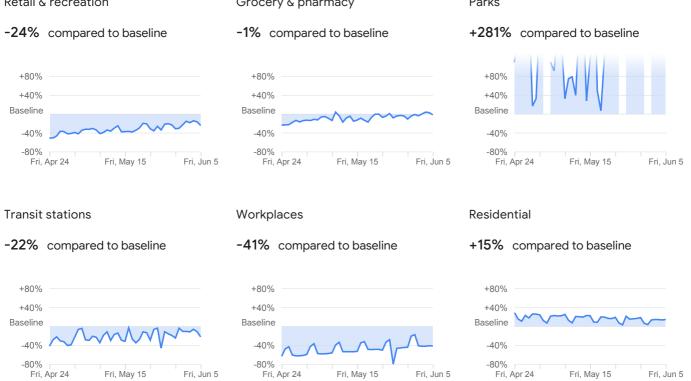
## **Livingston County**



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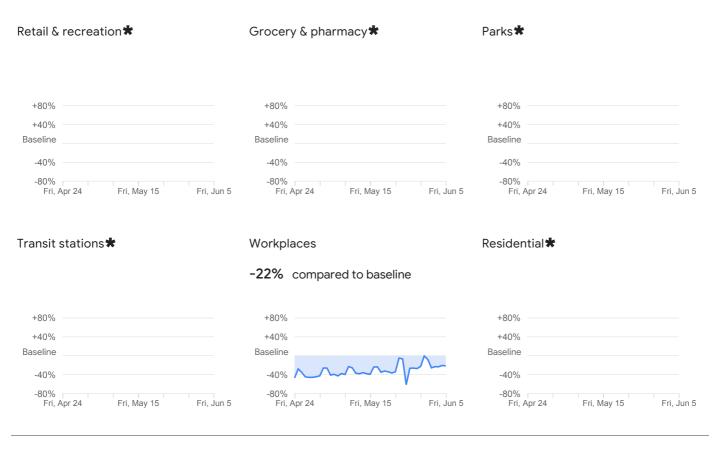
## Mackinac County



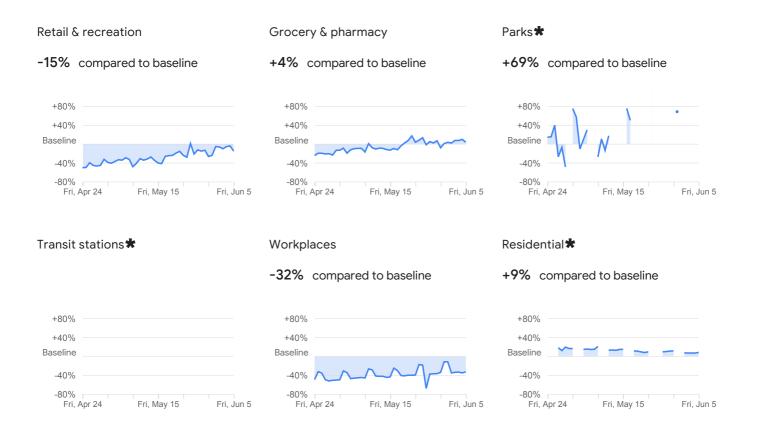


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## Manistee County

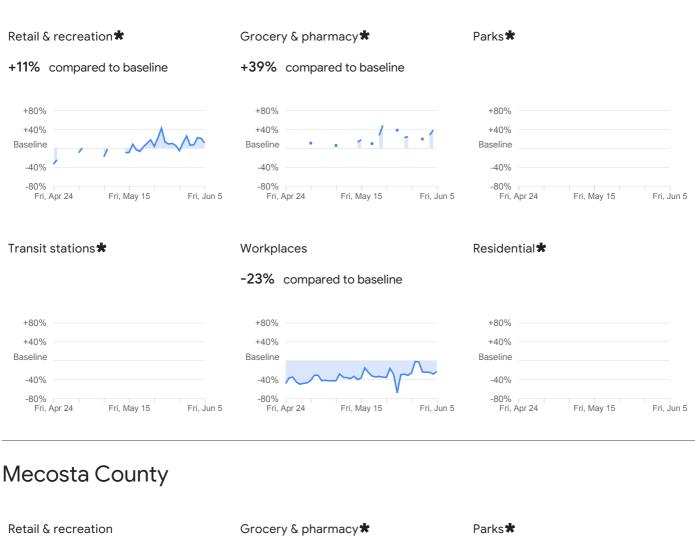


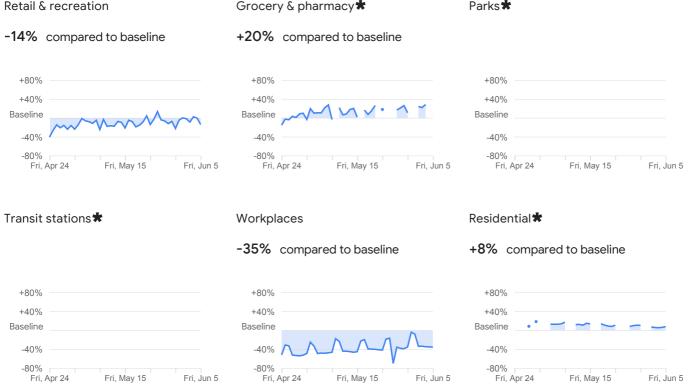
## Marquette County



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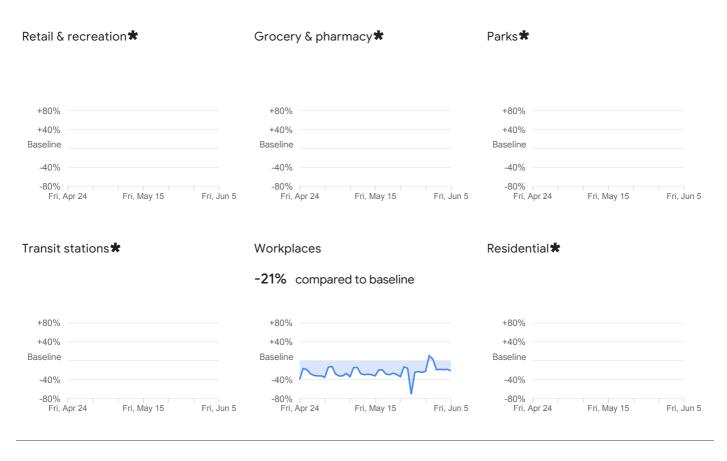
## Mason County



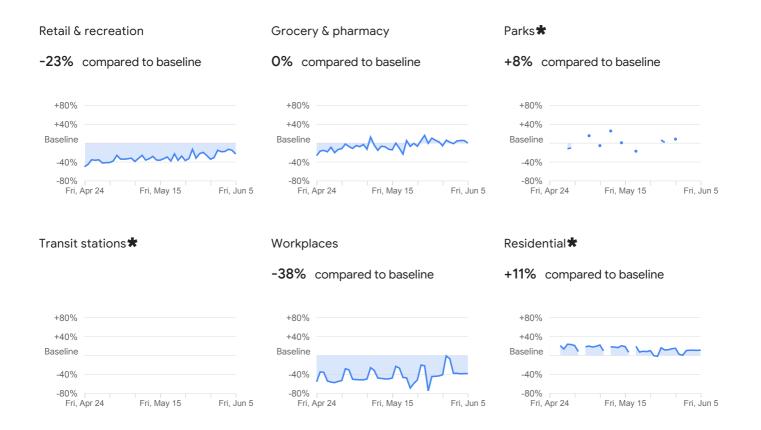


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## Menominee County

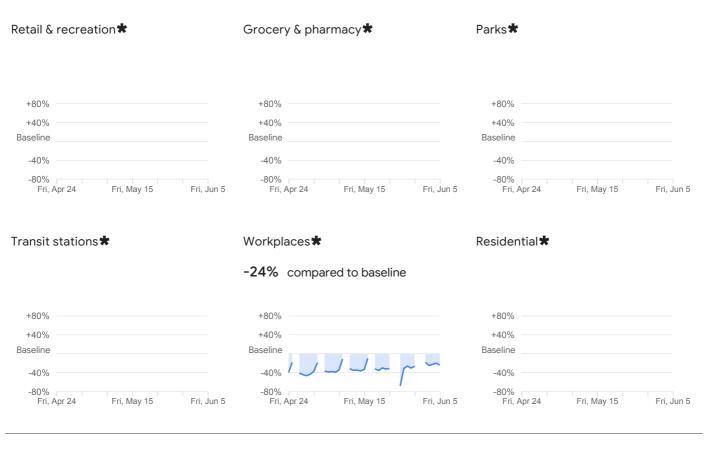


## Midland County

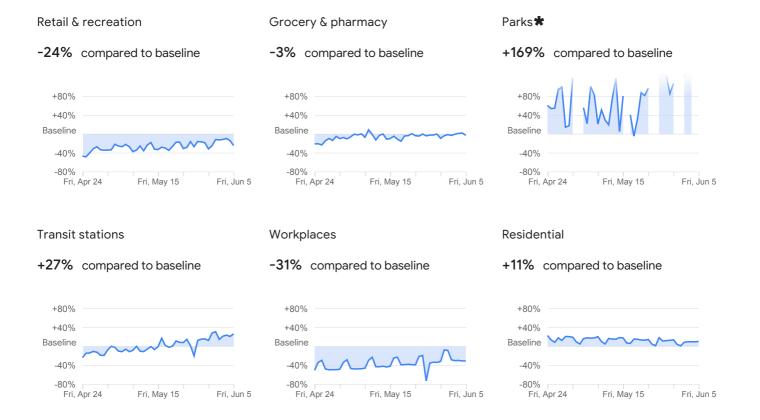


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## Missaukee County

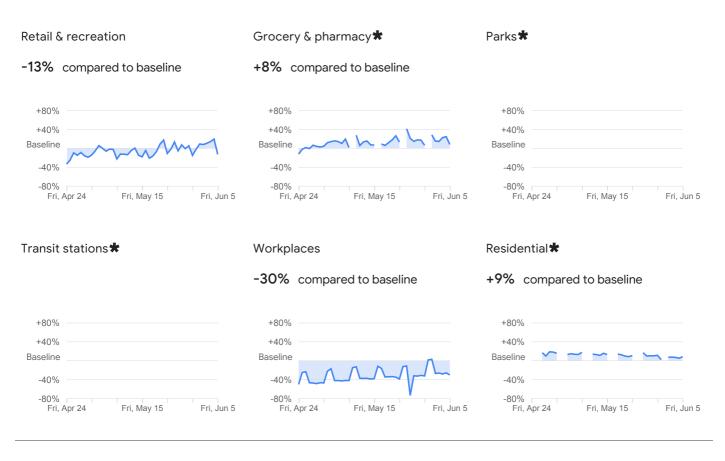


## Monroe County

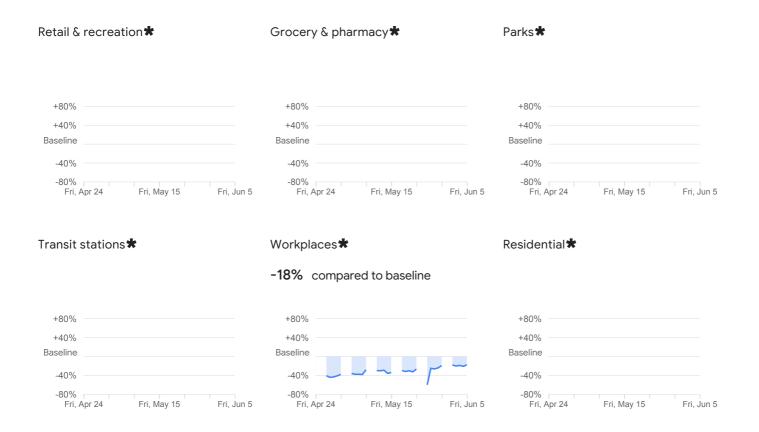


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## Montcalm County

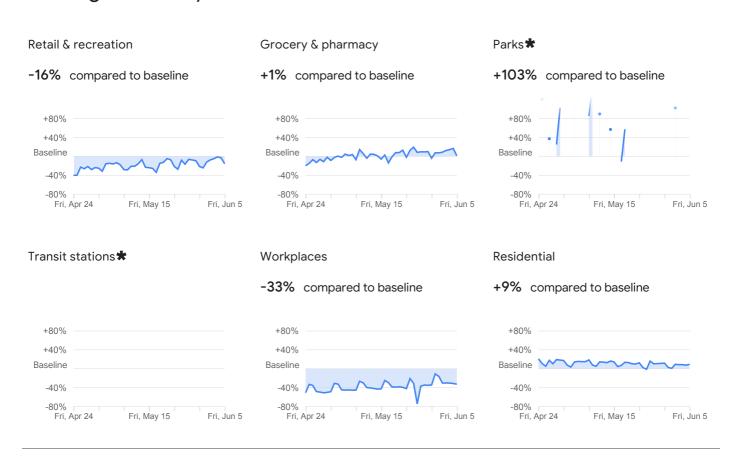


## **Montmorency County**

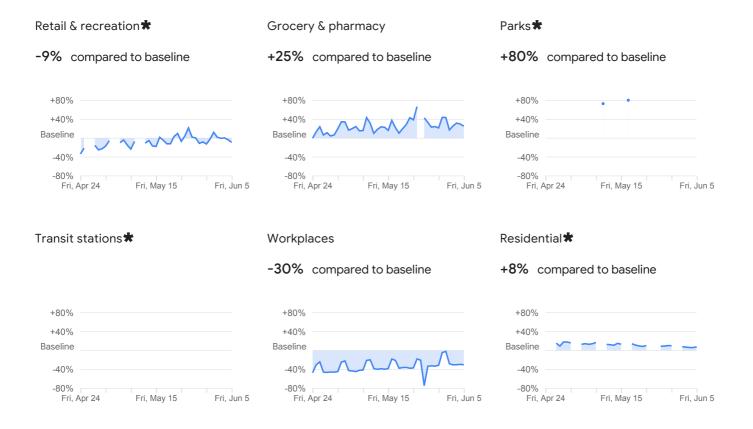


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## Muskegon County

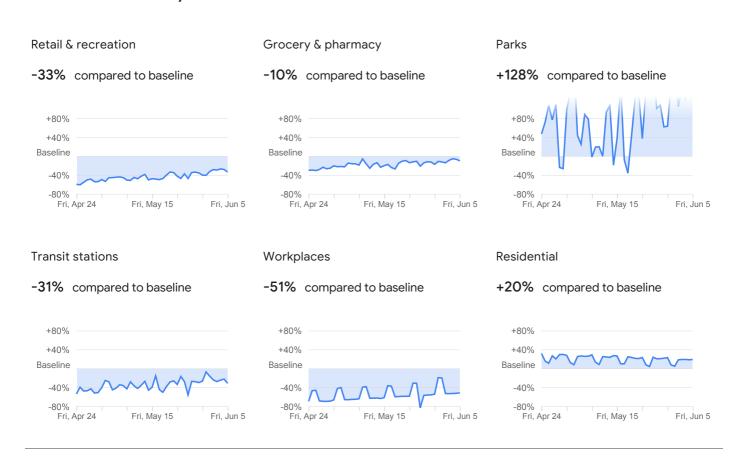


#### Newaygo County

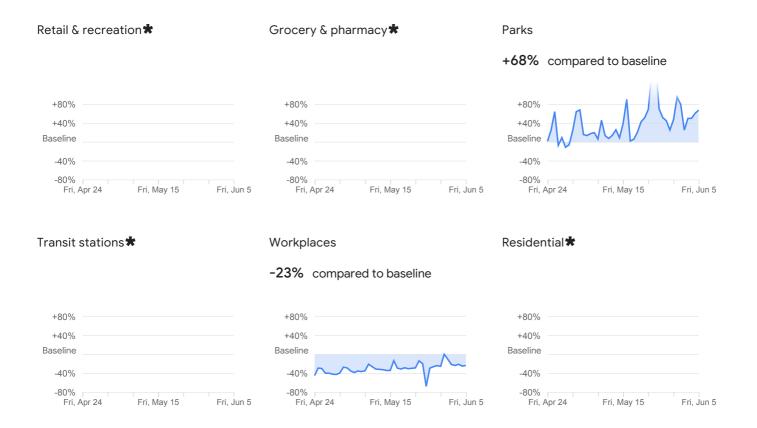


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## Oakland County

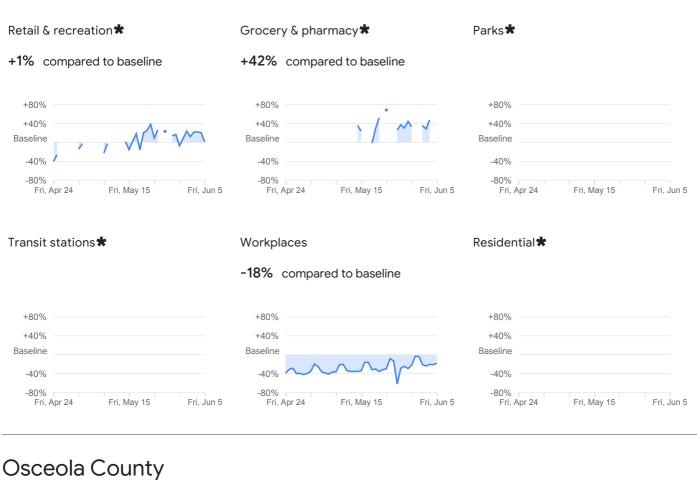


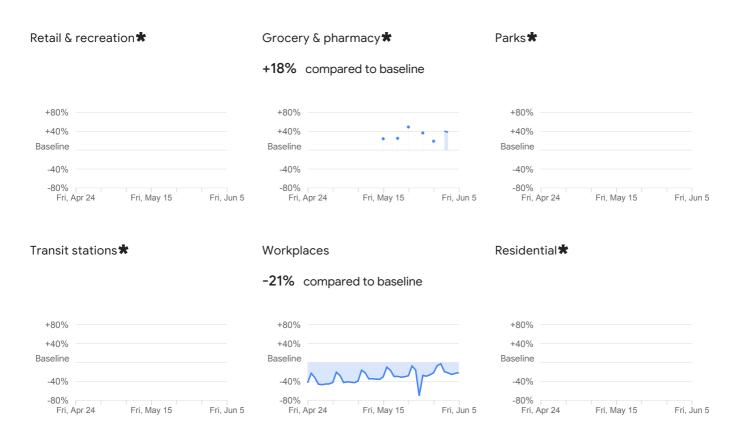
## Oceana County



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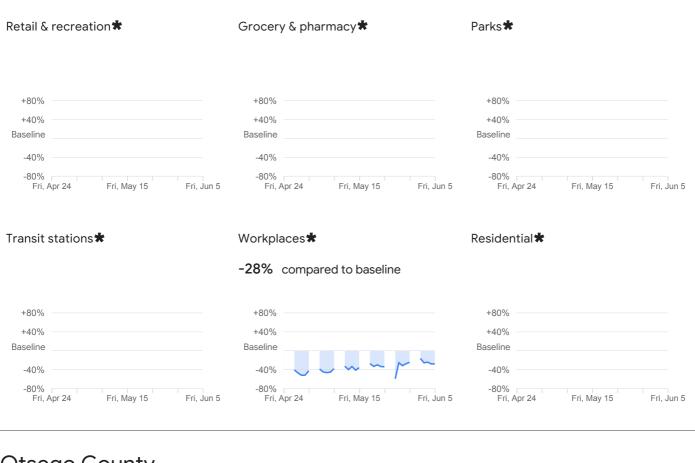
## **Ogemaw County**



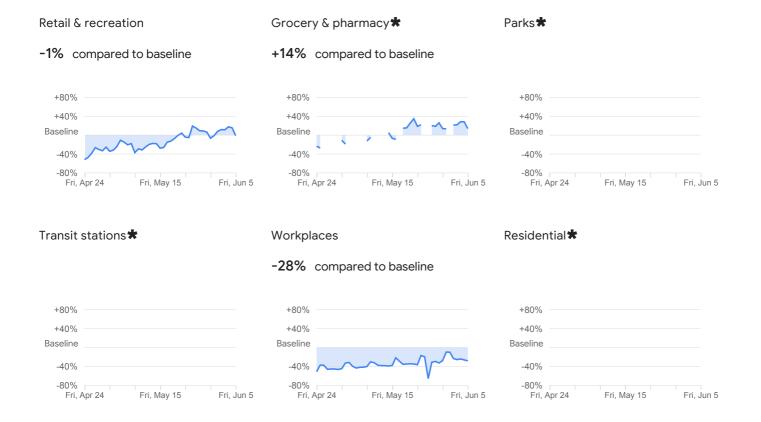


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## Oscoda County

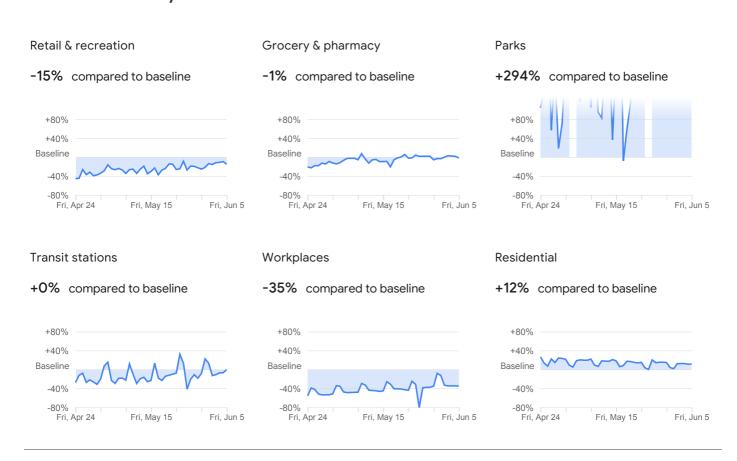


## Otsego County

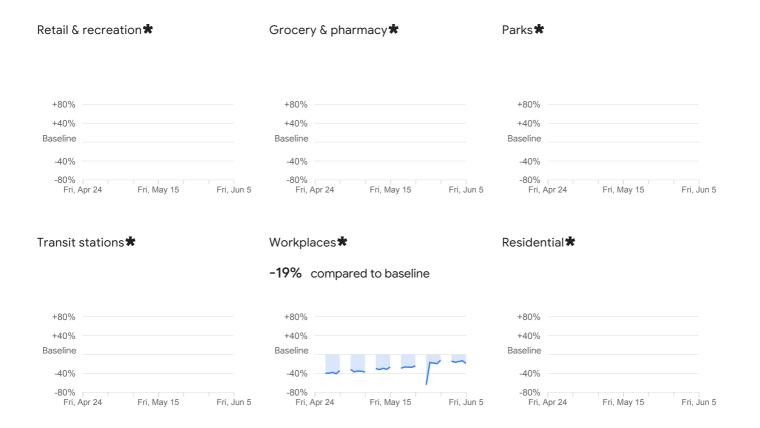


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## Ottawa County

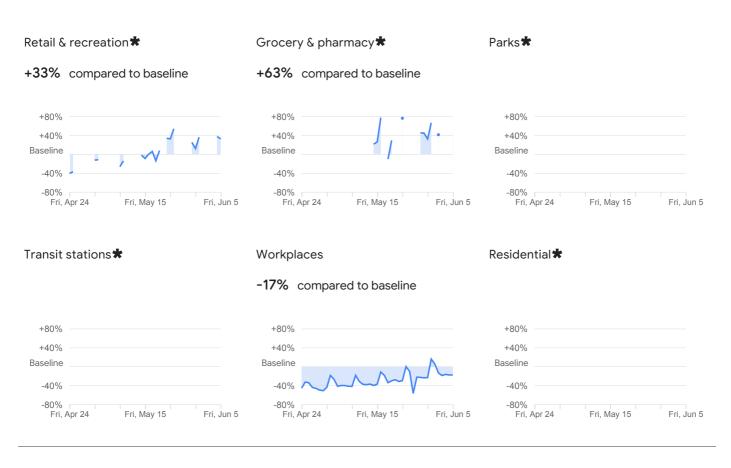


## Presque Isle County

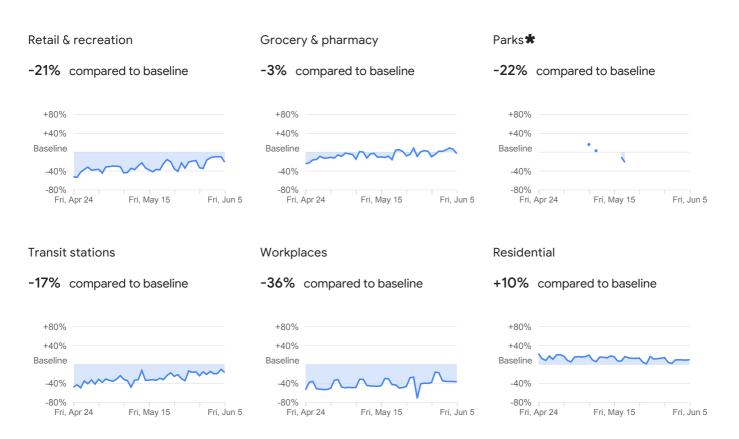


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#### Roscommon County

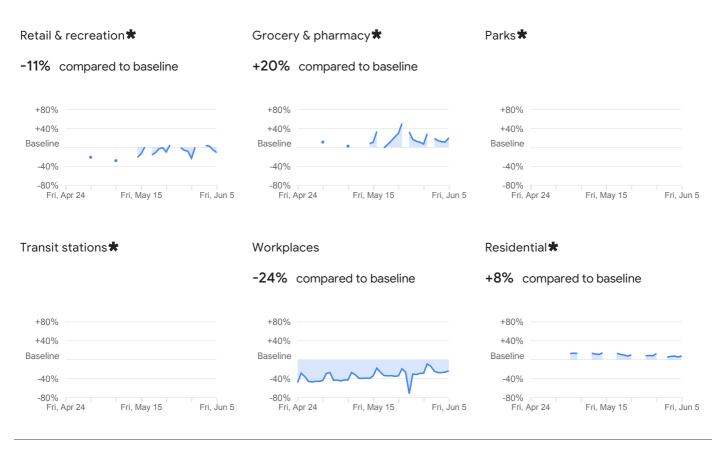


## Saginaw County

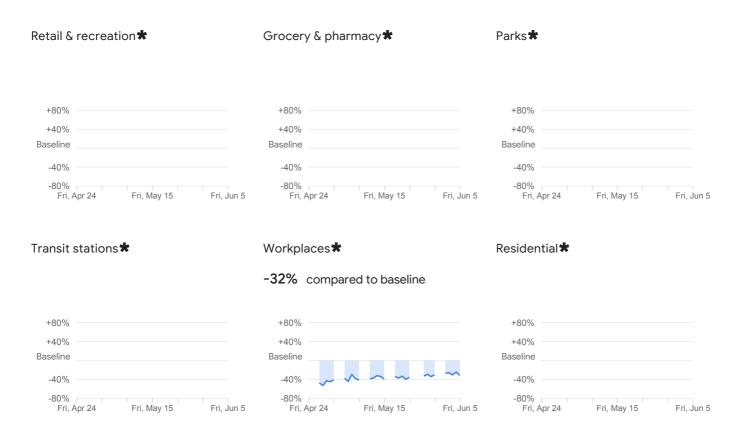


<sup>\*</sup> **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

## Sanilac County

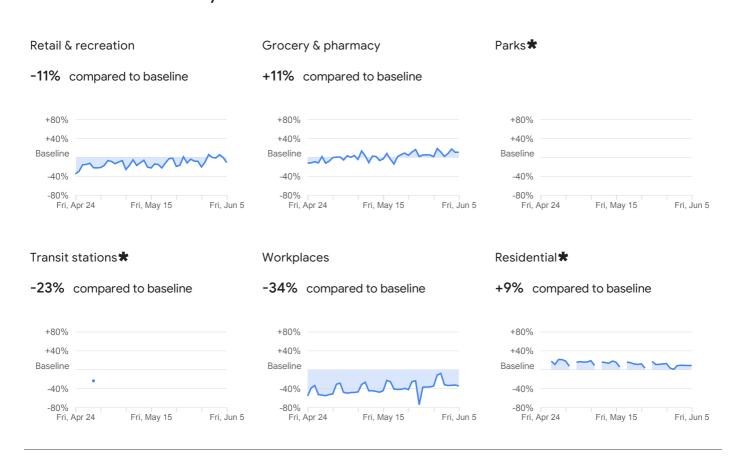


# Schoolcraft County

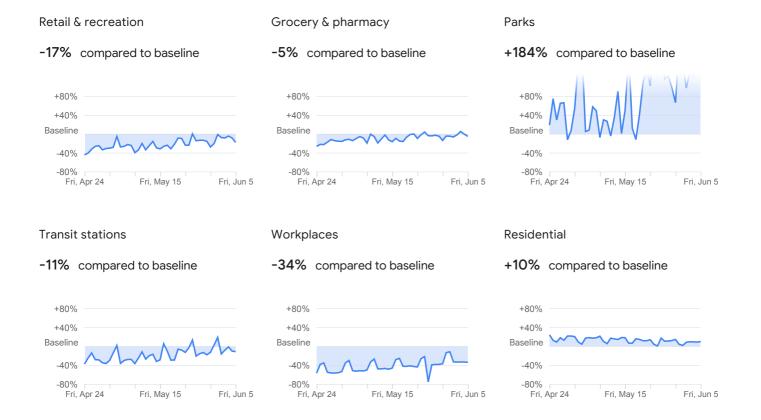


<sup>\*</sup> Not enough data for this date: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

## Shiawassee County

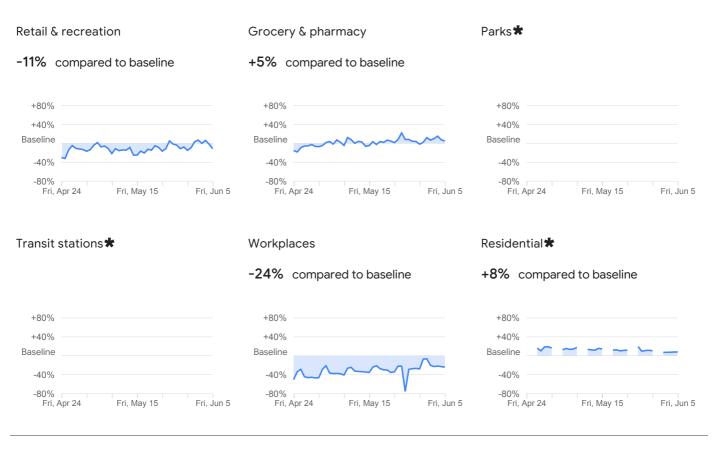


## St. Clair County

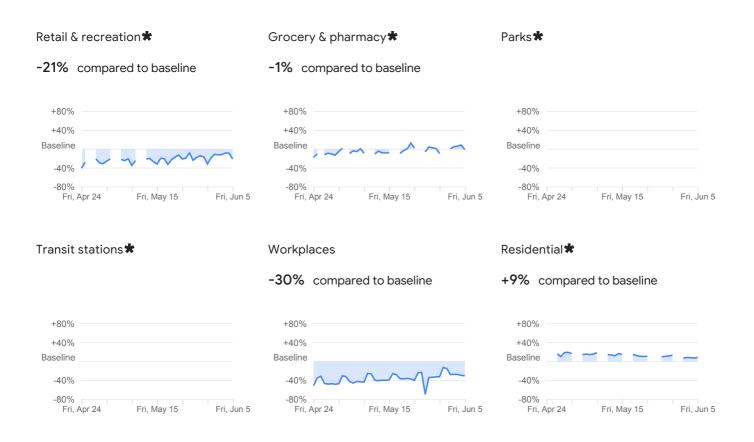


<sup>\*</sup> Not enough data for this date: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

## St. Joseph County

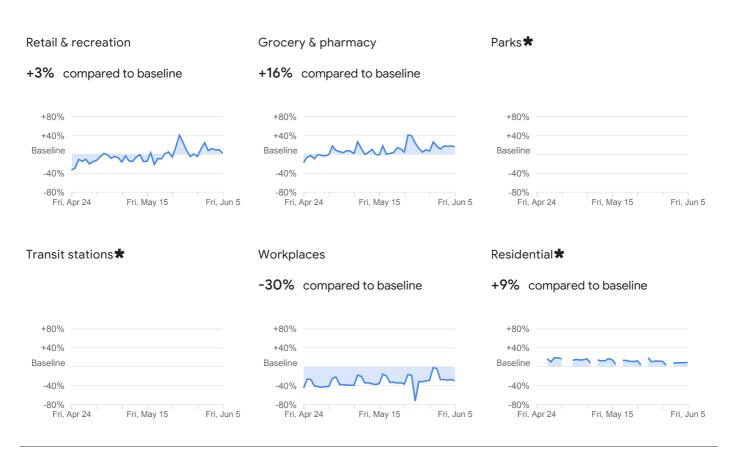


## Tuscola County

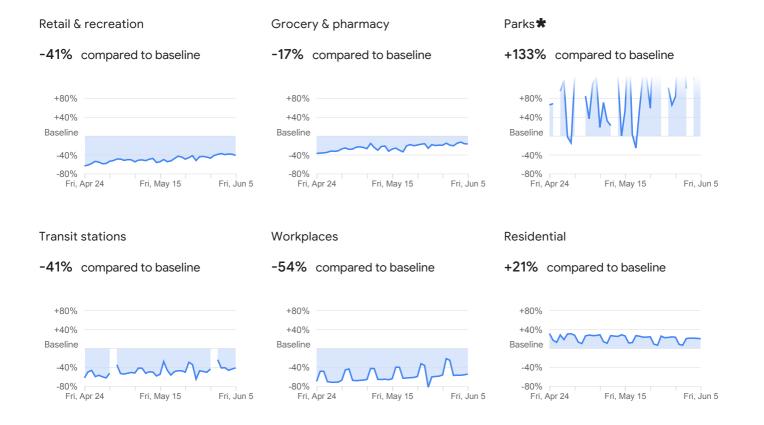


<sup>\*</sup> **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

## Van Buren County

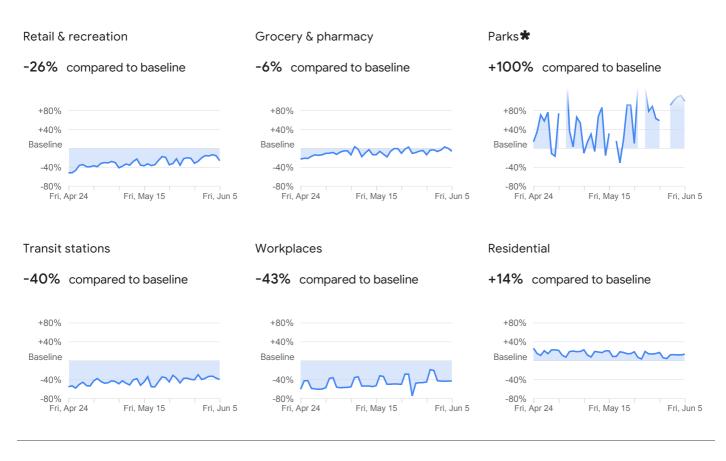


## Washtenaw County

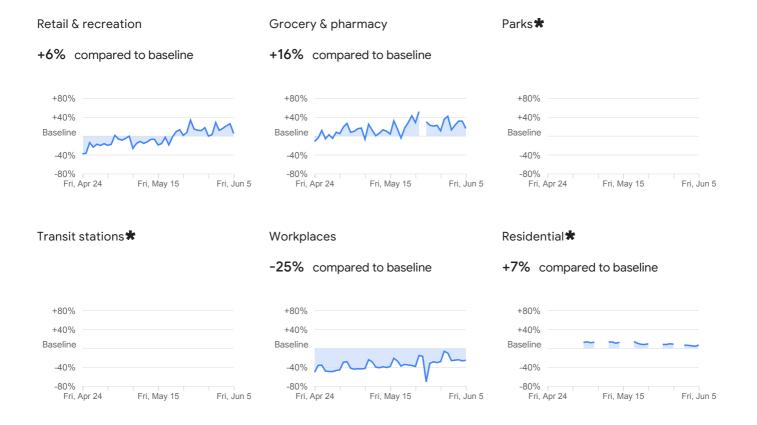


<sup>\*</sup> Not enough data for this date: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

## Wayne County



## **Wexford County**



<sup>\*</sup> **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

#### About this data

These reports show how visits and length of stay at different places change compared to a baseline. We calculate these changes using the same kind of aggregated and anonymized data used to show popular times for places in Google Maps.

Changes for each day are compared to a baseline value for that day of the week:

- The baseline is the *median* value, for the corresponding day of the week, during the 5-week period Jan 3-Feb 6, 2020.
- The reports show trends over several weeks with the most recent data representing approximately 2-3 days ago—this is how long it takes to produce the reports.

What data is included in the calculation depends on user settings, connectivity, and whether it meets our privacy threshold. If the privacy threshold isn't met (when somewhere isn't busy enough to ensure anonymity) we don't show a change for the day.

We include categories that are useful to social distancing efforts as well as access to essential services.

We calculate these insights based on data from users who have opted-in to Location History for their Google Account, so the data represents a sample of our users. As with all samples, this may or may not represent the exact behavior of a wider population.

## Preserving privacy

These reports were developed to be helpful while adhering to our stringent privacy protocols and protecting people's privacy. No personally identifiable information, like an individual's location, contacts or movement, is made available at any point.

Insights in these reports are created with aggregated, anonymized sets of data from users who have turned on the Location History setting, which is off by default. People who have Location History turned on can choose to turn it off at any time from their Google Account and can always delete Location History data directly from their Timeline.

These reports are powered by the same world-class anonymization technology that we use in our products every day and that keep your activity data private and secure. These reports use differential privacy, which adds artificial noise to our datasets enabling high quality results without identifying any individual person. These privacy-preserving protections also ensure that the absolute number of visits isn't shared.

#### Further resources

To learn how you can best use this report in your work, visit Mobility Reports Help.

To get the latest report, visit google.com/covid19/mobility