

# Virginia June 23, 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

-11%

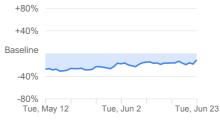
compared to baseline

+40% Baseline -40% -80% Tue, May 12 Tue, Jun 2

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

Grocery & pharmacy

compared to baseline

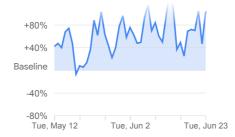


+80% +40% Baseline -40% -80% Tue. May 12 Tue. Jun 2 Tue. Jun 23

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

**Parks** 

compared to baseline

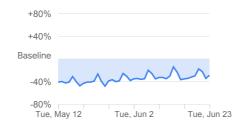


Mobility trends for places like national parks, public beaches, marinas, dog parks, plazas, and public gardens.

Transit stations

-29%

compared to baseline

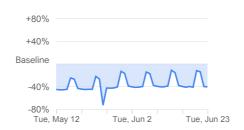


Mobility trends for places like public transport hubs such as subway, bus, and train stations.

Workplaces

-40%

compared to baseline

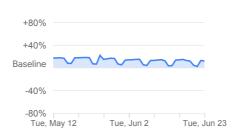


Mobility trends for places of work.

Residential

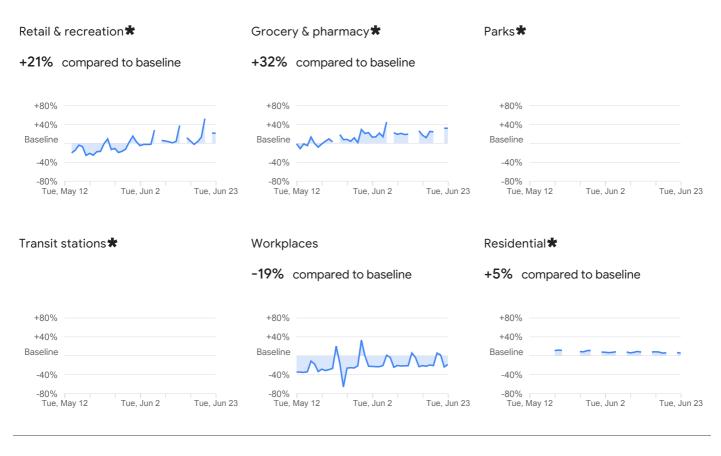
+12%

compared to baseline

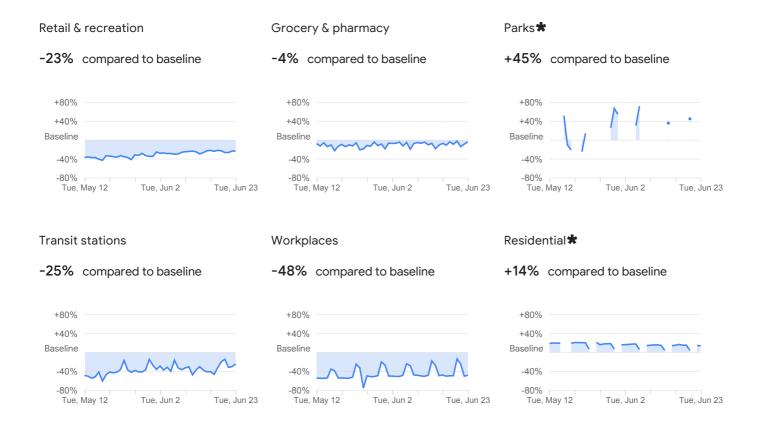


Mobility trends for places of residence.

# **Accomack County**

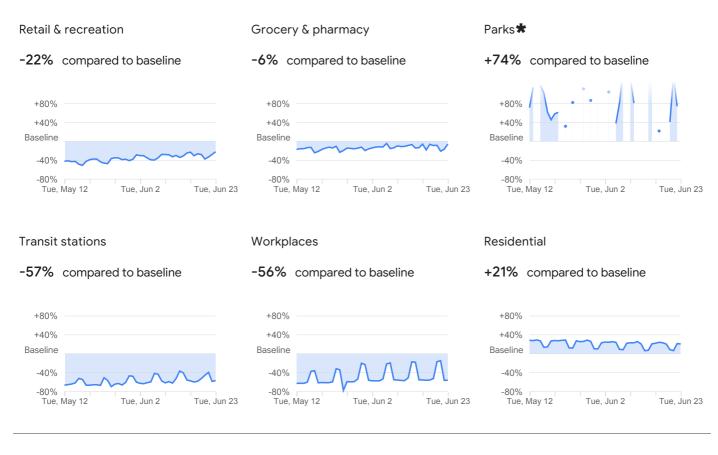


# Albemarle County

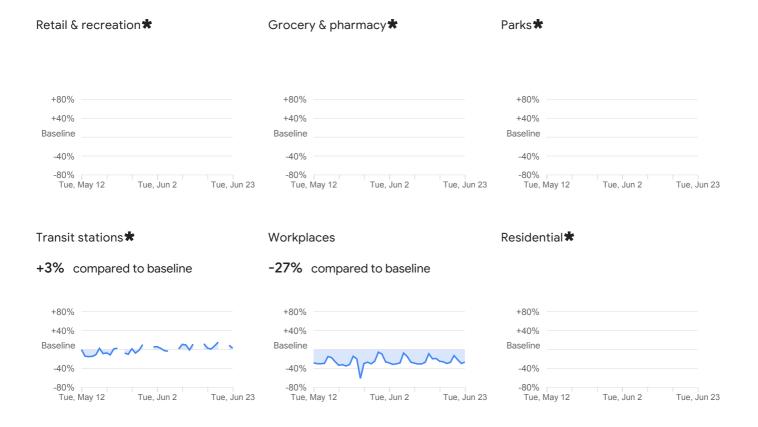


<sup>\*</sup> Not enough data for this date: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

#### Alexandria



# **Alleghany County**

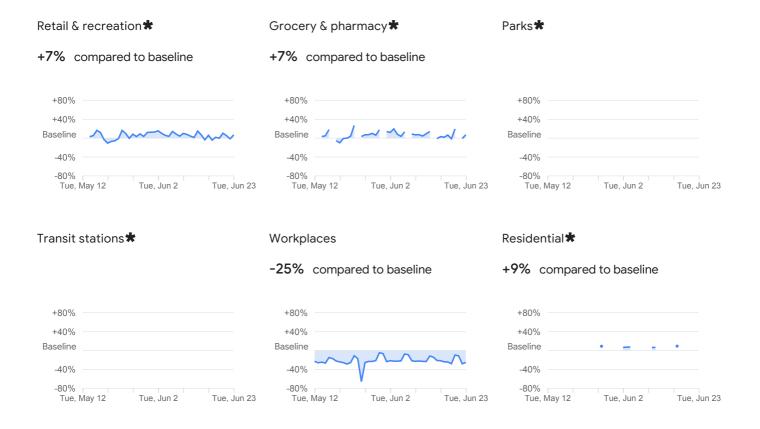


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# **Amelia County**

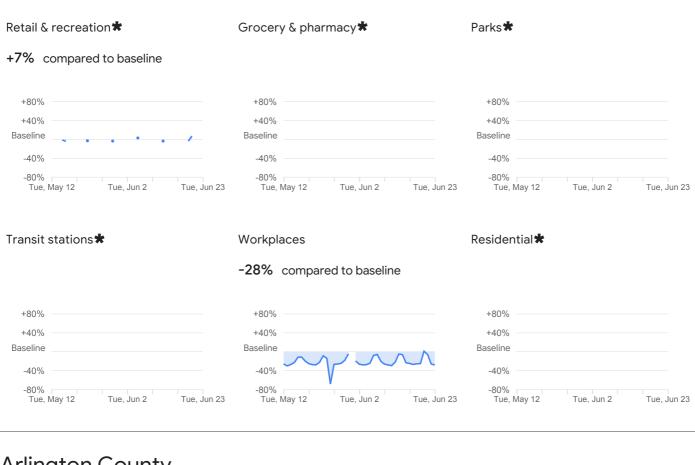


# **Amherst County**

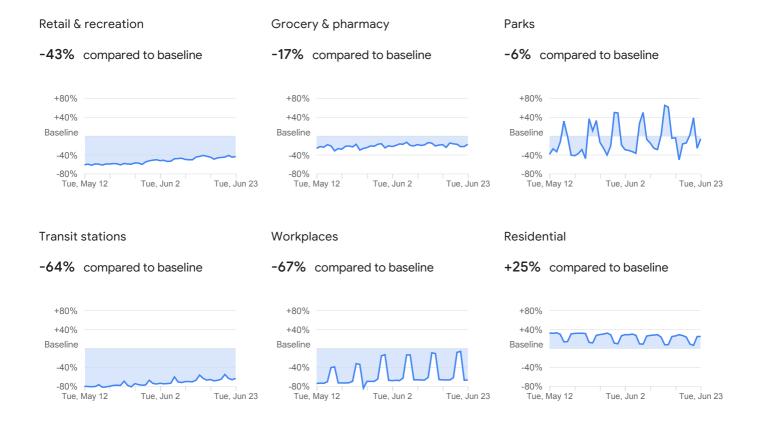


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# **Appomattox County**

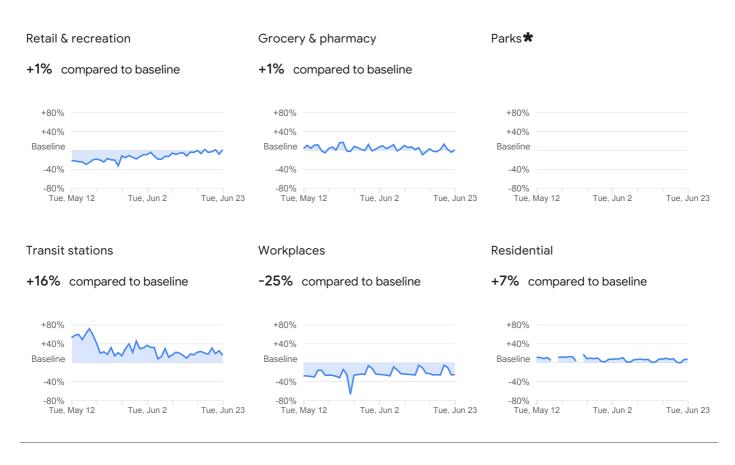


# **Arlington County**

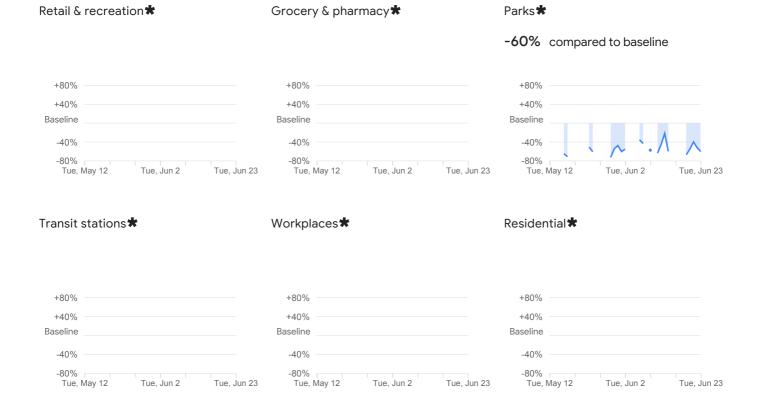


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# Augusta County

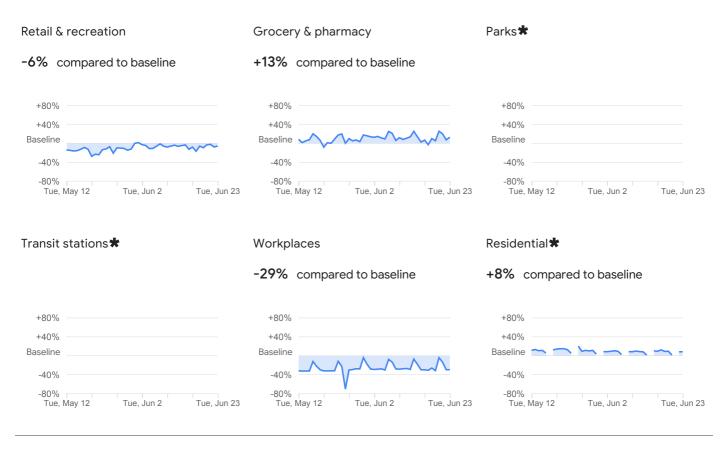


# **Bath County**

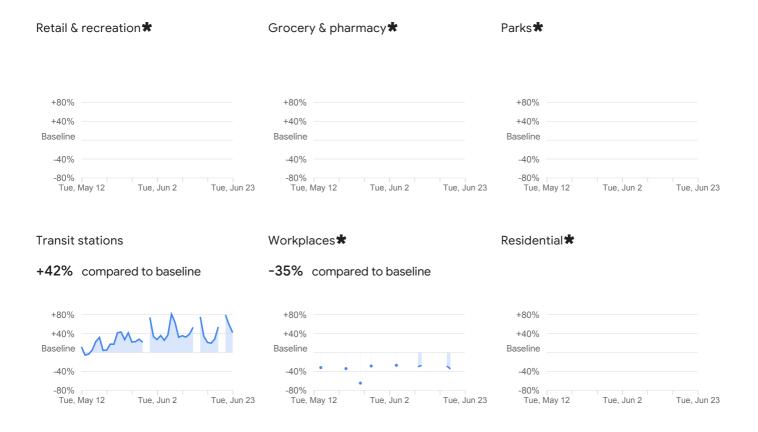


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# **Bedford County**

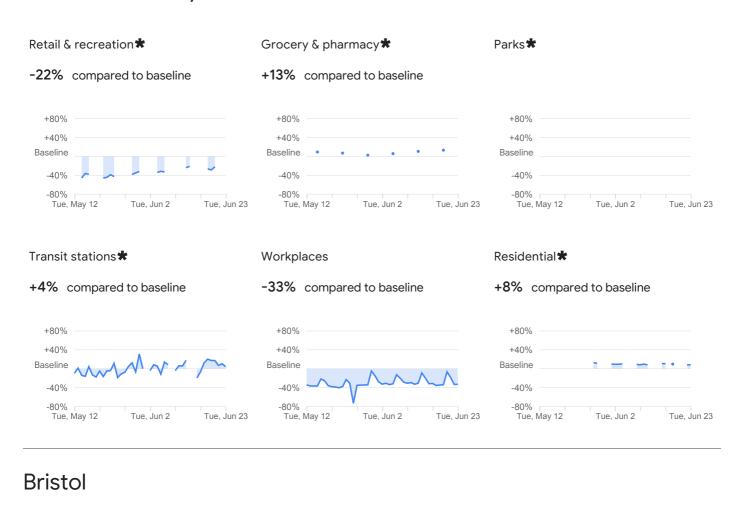


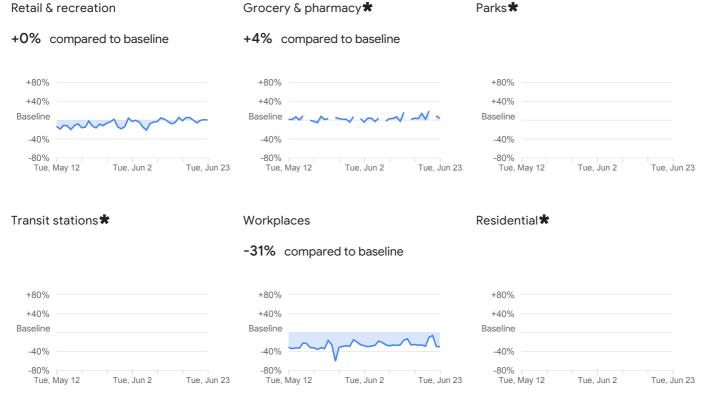
# **Bland County**



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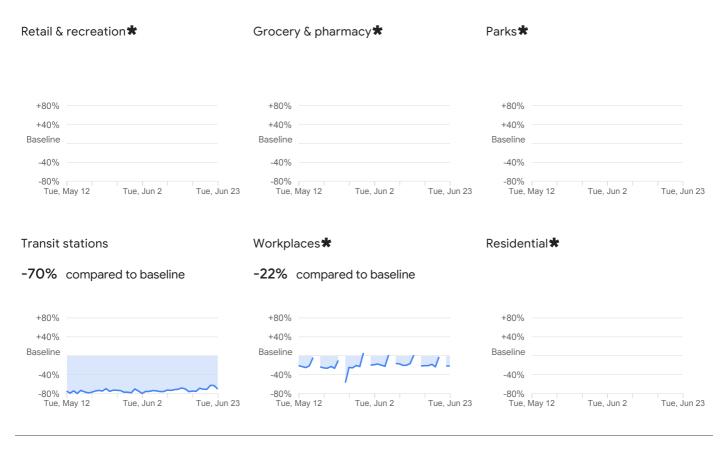
# **Botetourt County**



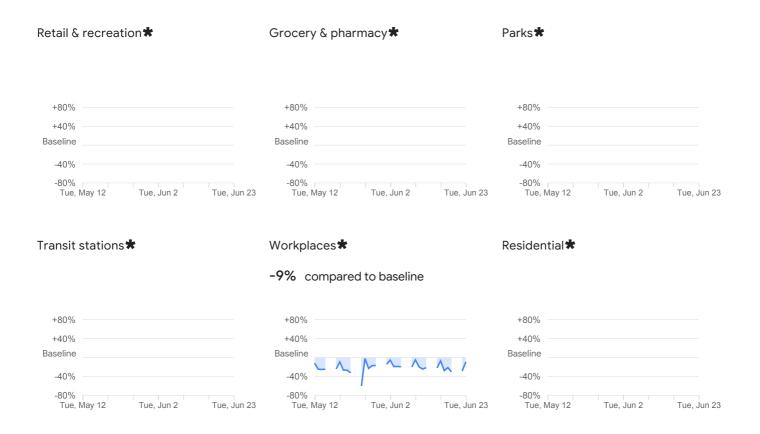


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# **Brunswick County**

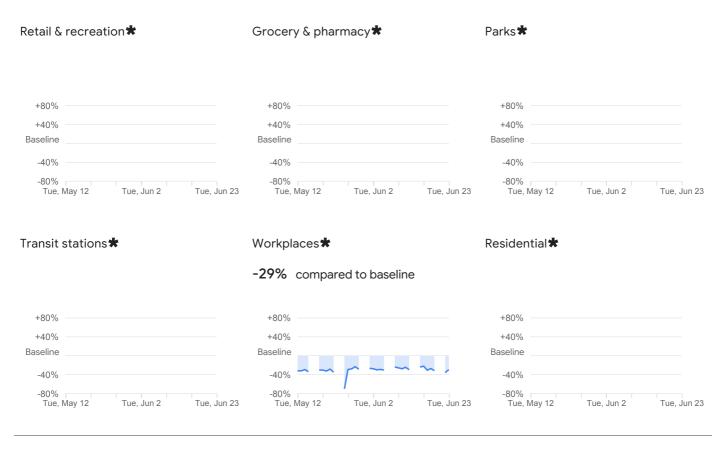


# **Buchanan County**

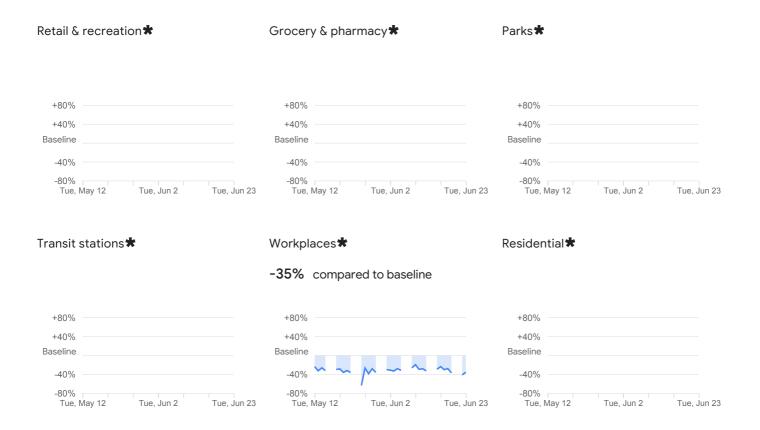


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# **Buckingham County**

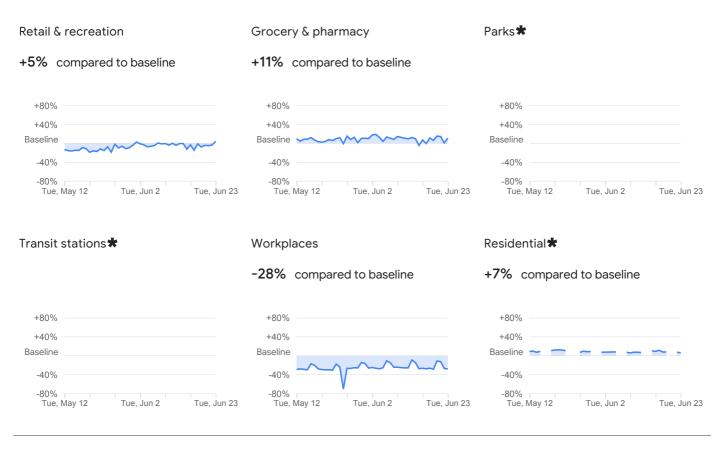


#### Buena Vista

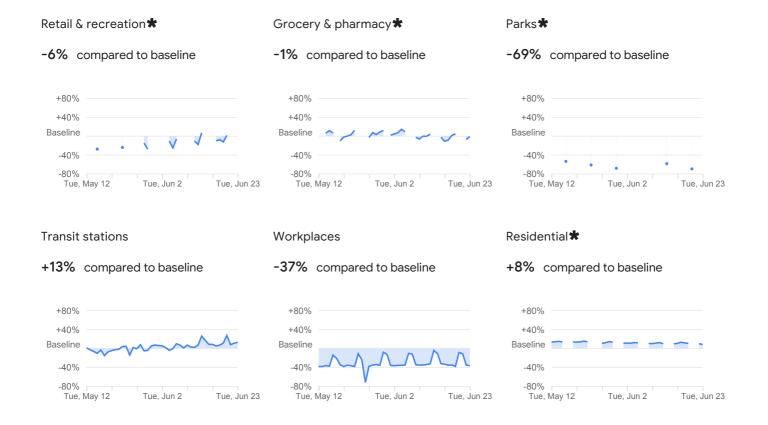


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# Campbell County

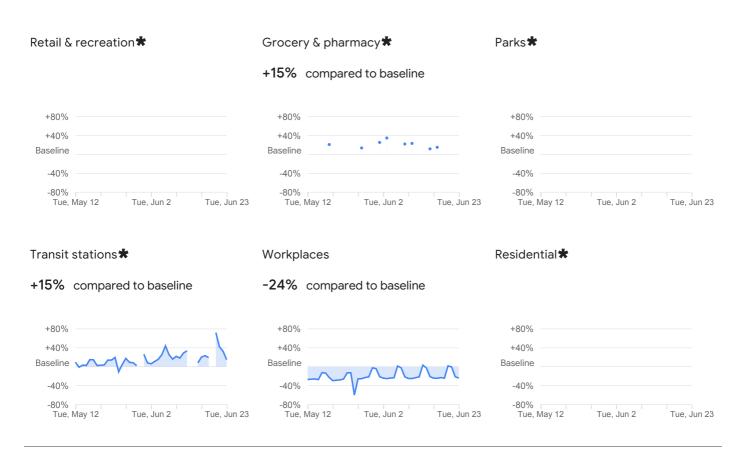


# Caroline County

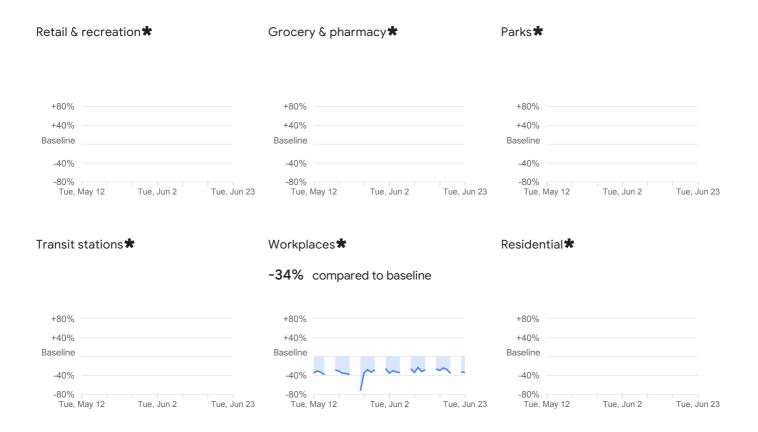


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# Carroll County

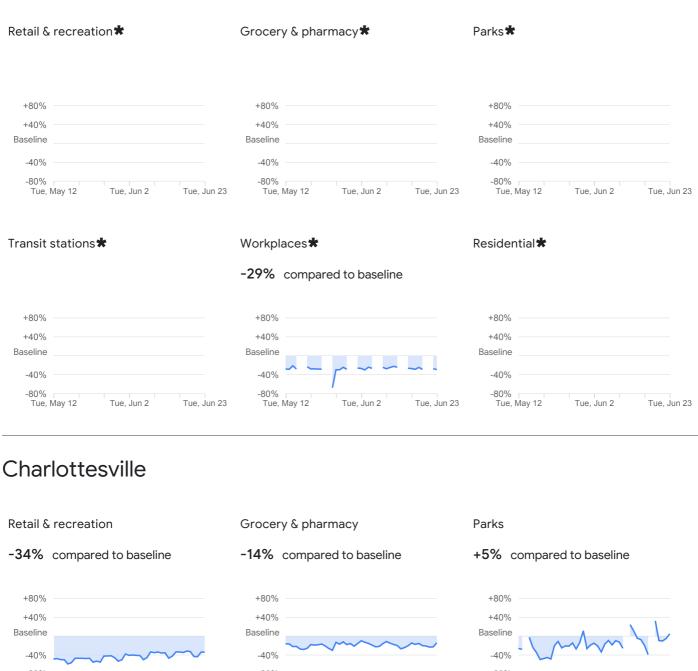


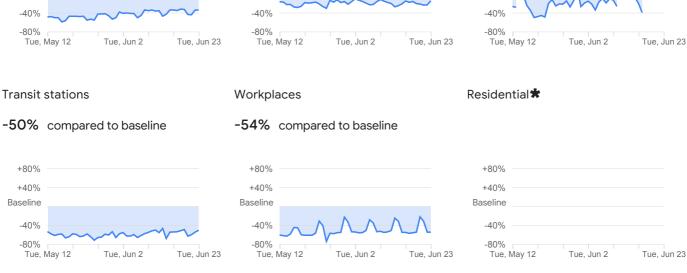
# Charles City County



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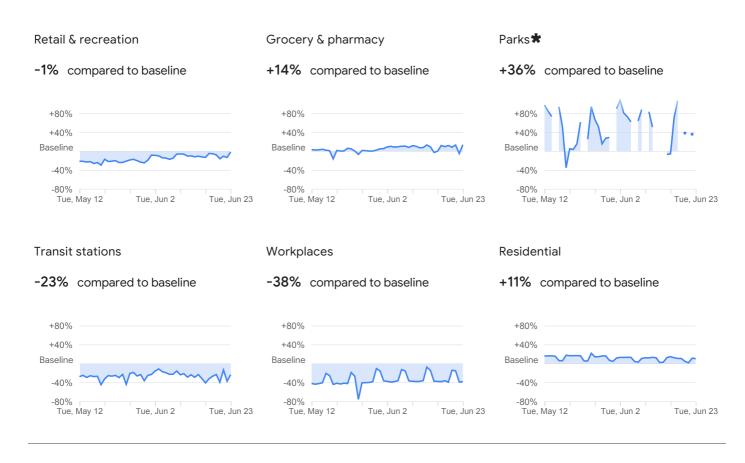
# Charlotte County



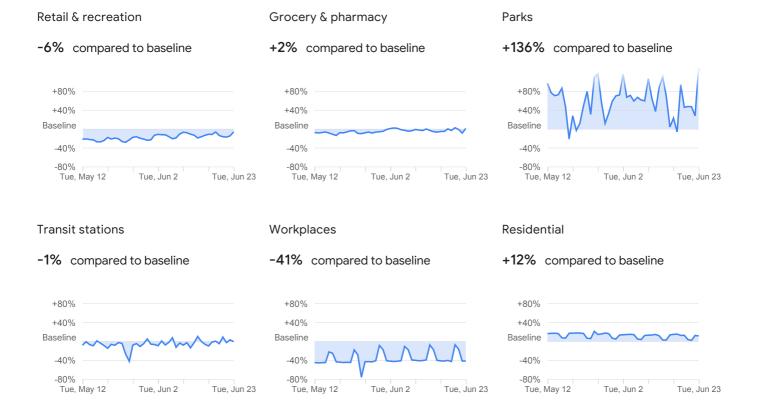


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#### Chesapeake

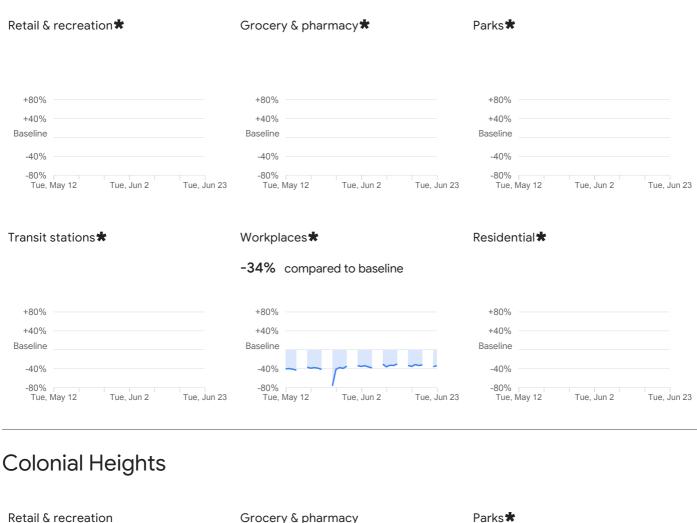


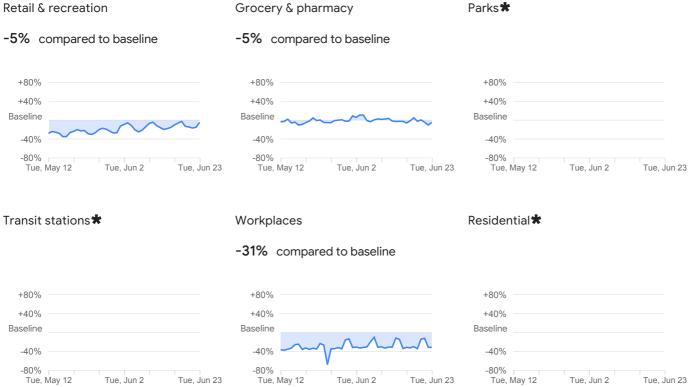
# **Chesterfield County**



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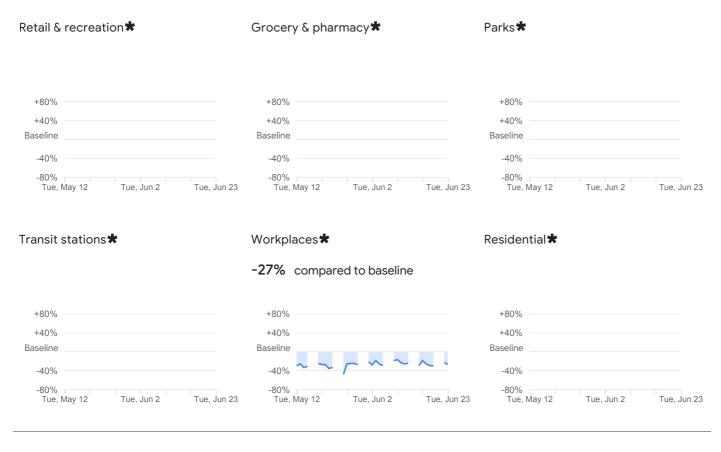
# Clarke County



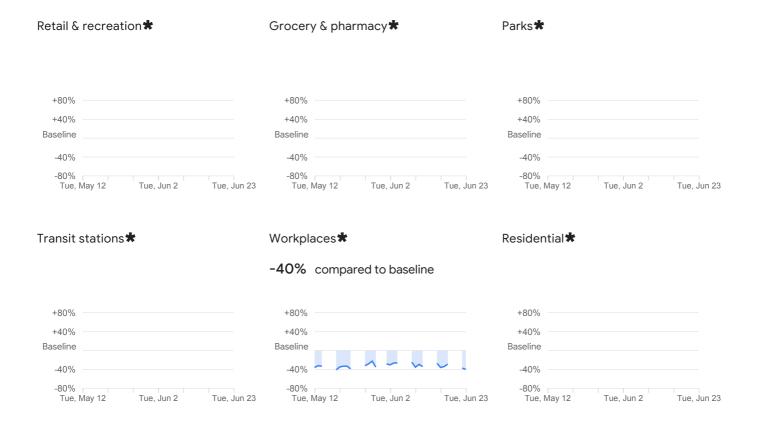


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# Covington

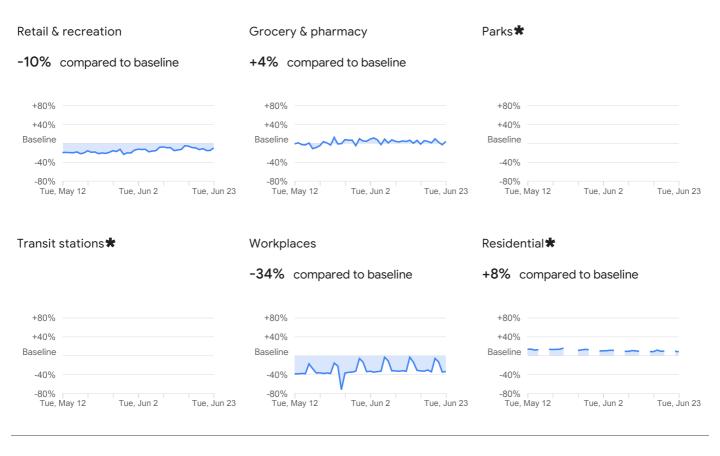


# **Craig County**

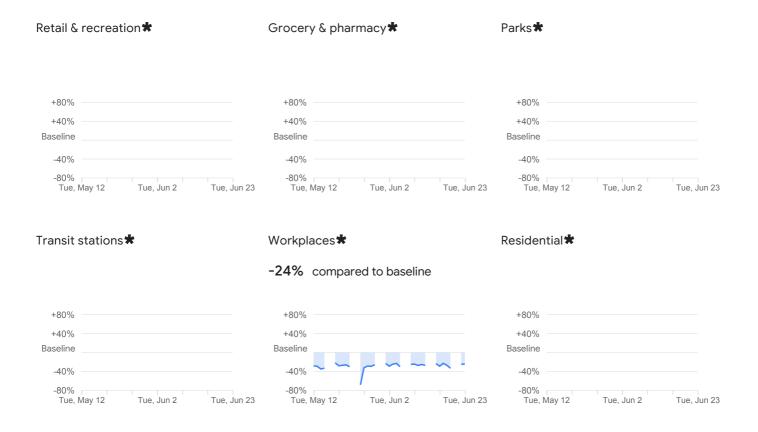


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# **Culpeper County**

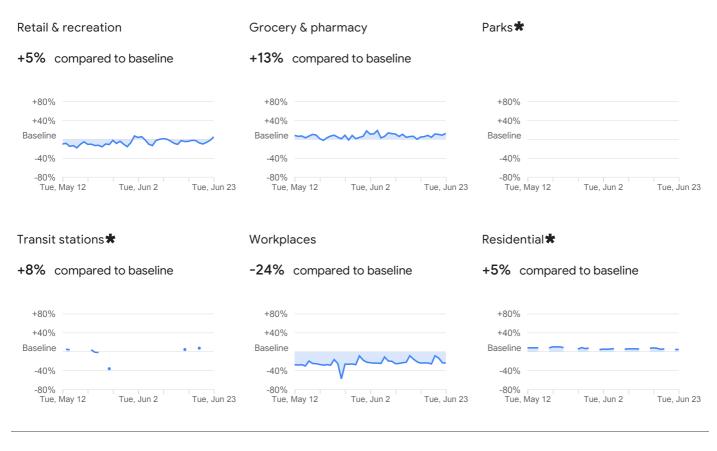


# **Cumberland County**

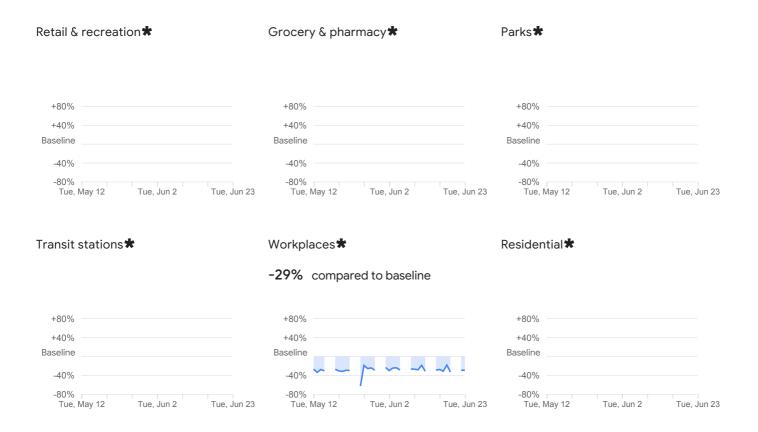


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#### Danville

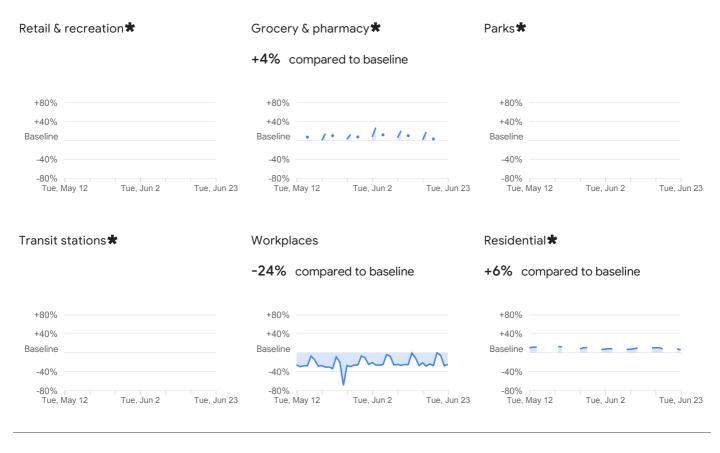


# **Dickenson County**

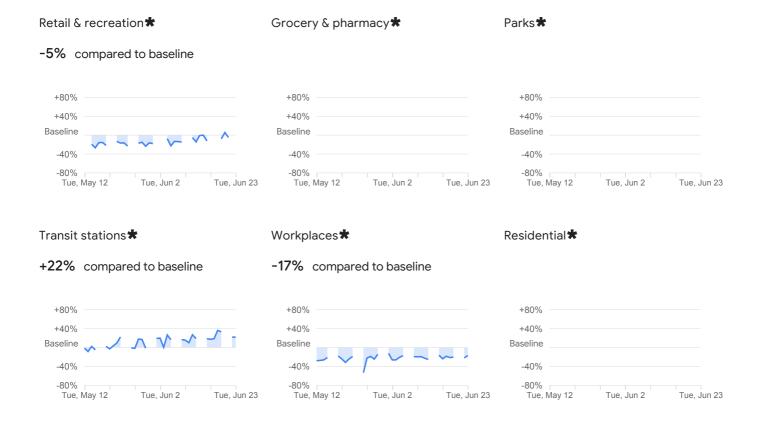


<sup>\*</sup> **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

# **Dinwiddie County**

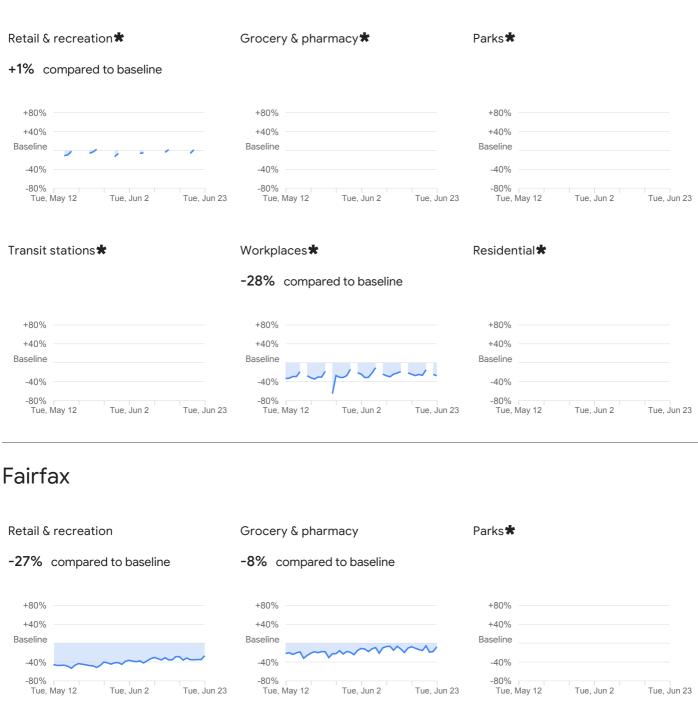


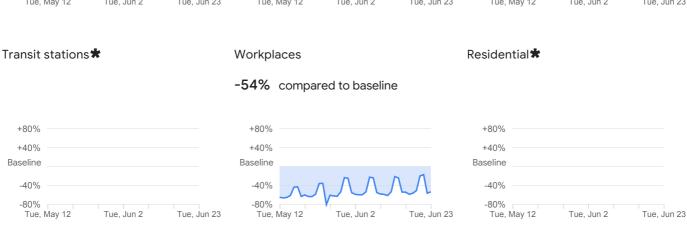
# **Emporia**



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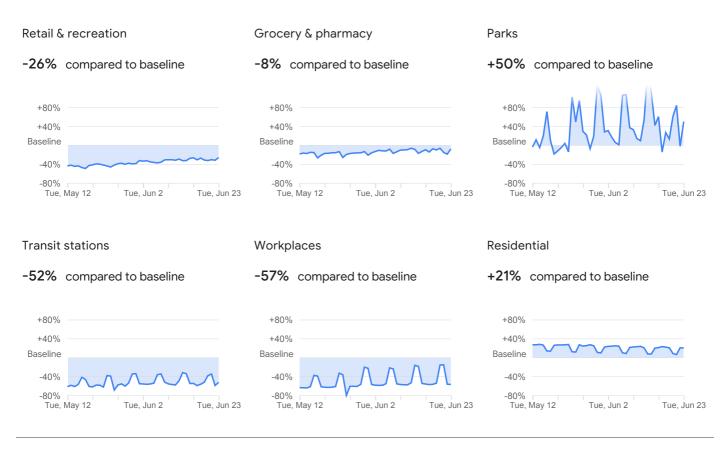
# **Essex County**



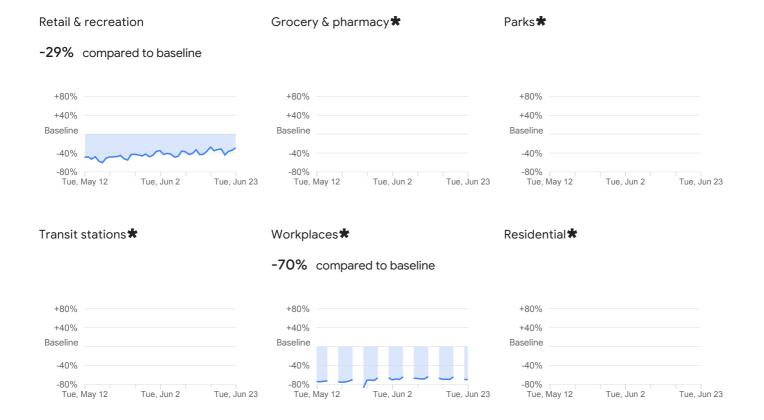


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# Fairfax County

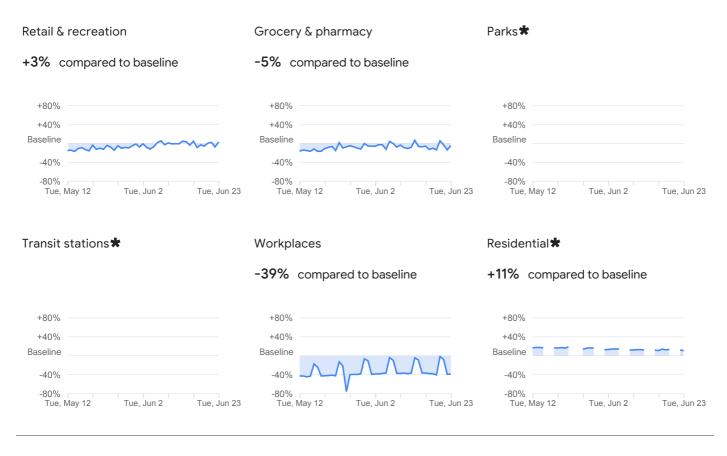


#### Falls Church

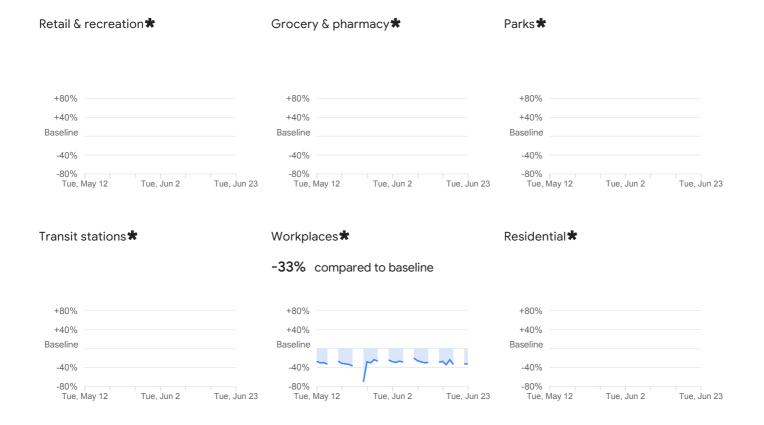


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# **Fauquier County**

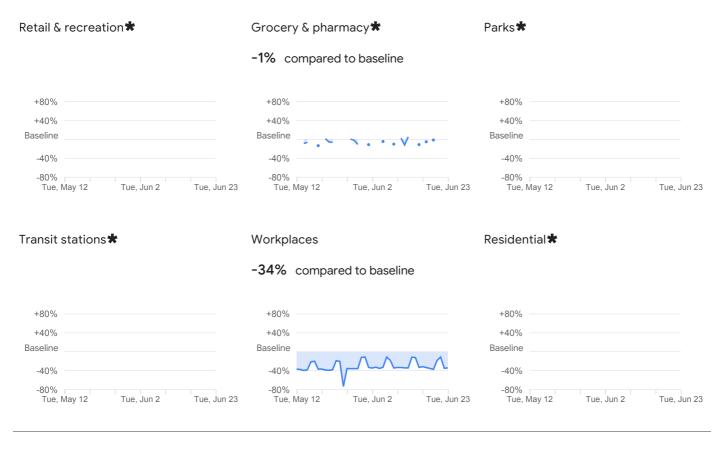


# Floyd County

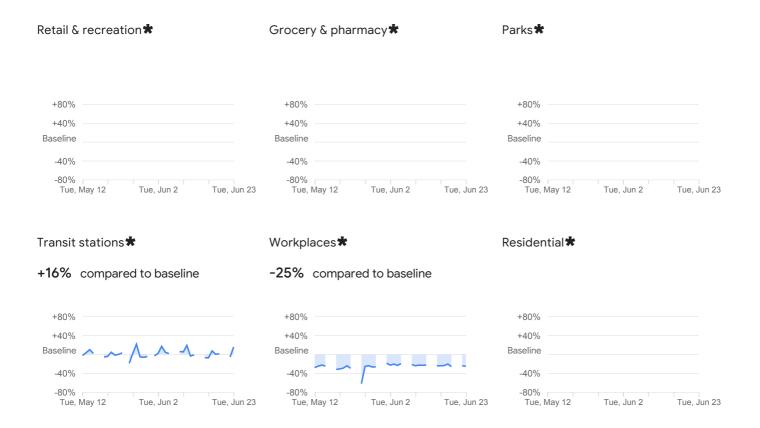


<sup>\*</sup> **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

# Fluvanna County

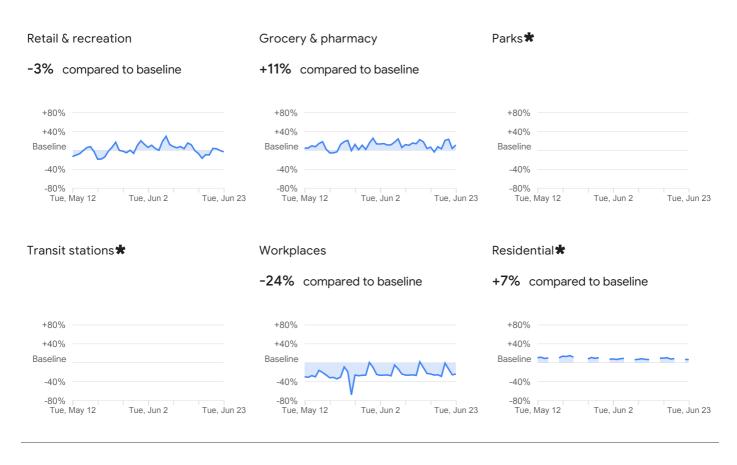


#### Franklin

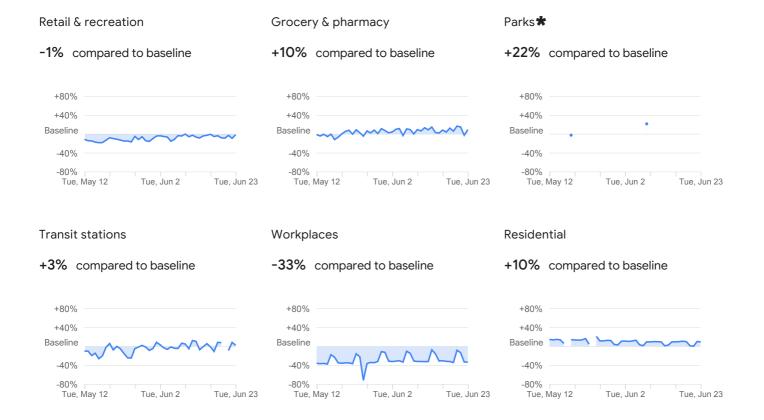


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# Franklin County

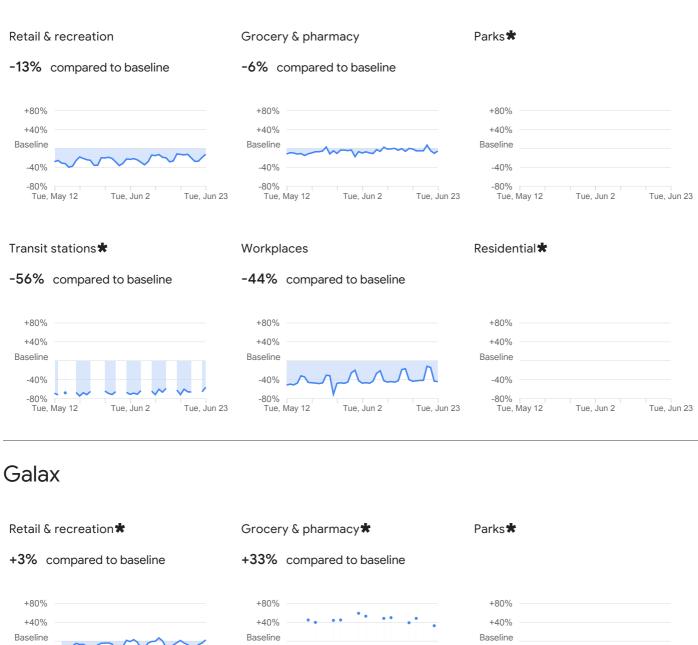


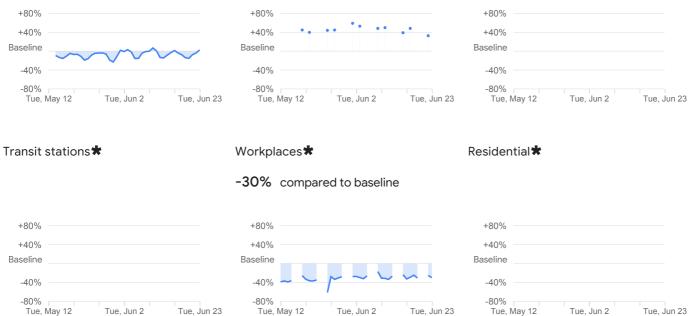
# Frederick County



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# Fredericksburg





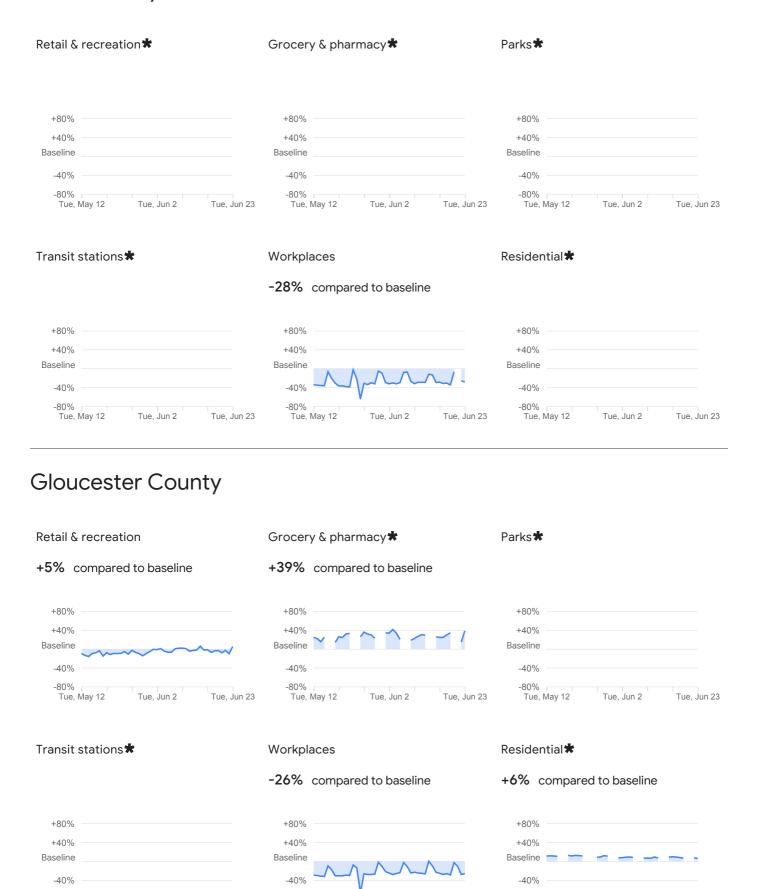
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# Giles County

-80%

Tue, May 12

Tue, Jun 2



Tue, Jun 2

-80%

Tue, Jun 23

Tue, May 12

Tue, Jun 23

Tue. Jun 2

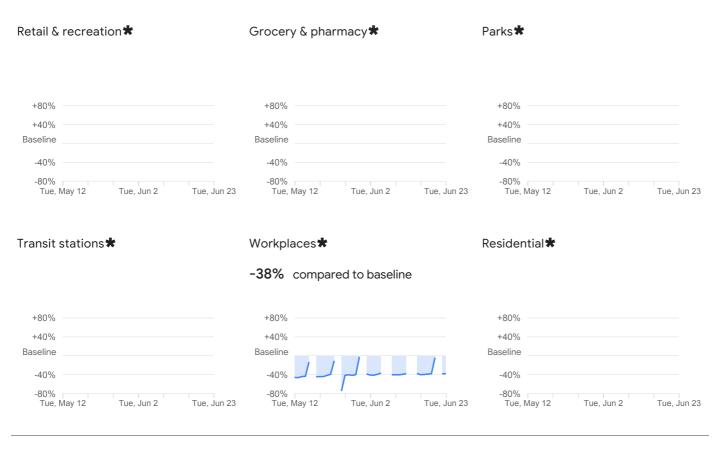
-80%

Tue, Jun 23

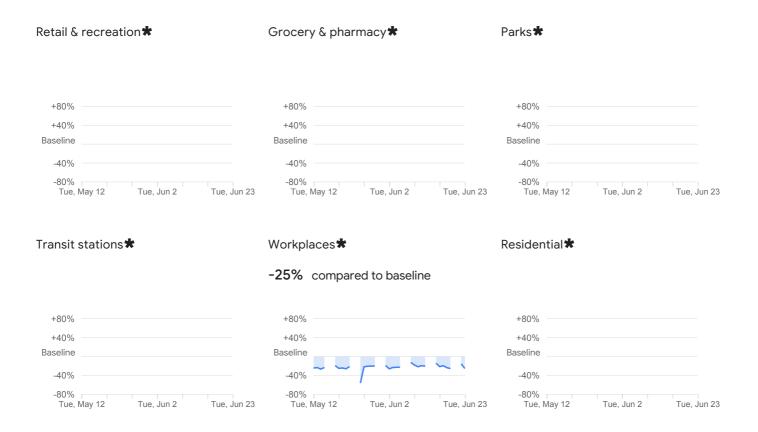
Tue, May 12

<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.

# **Goochland County**

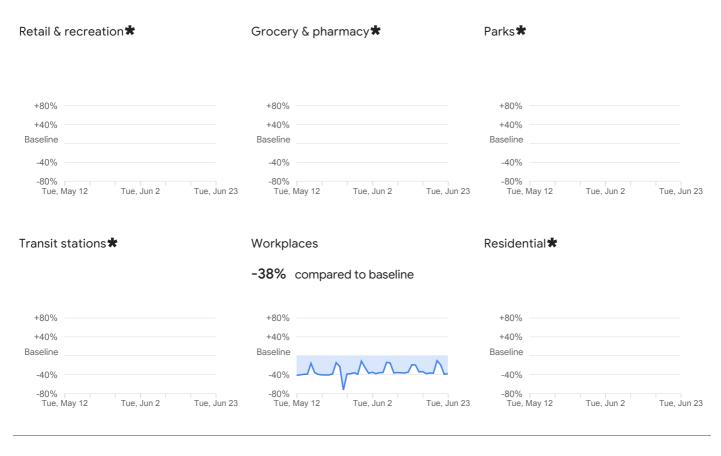


# **Grayson County**

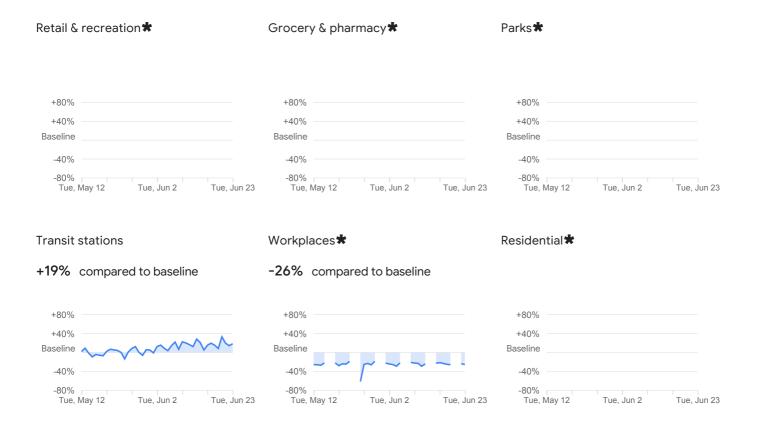


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# **Greene County**

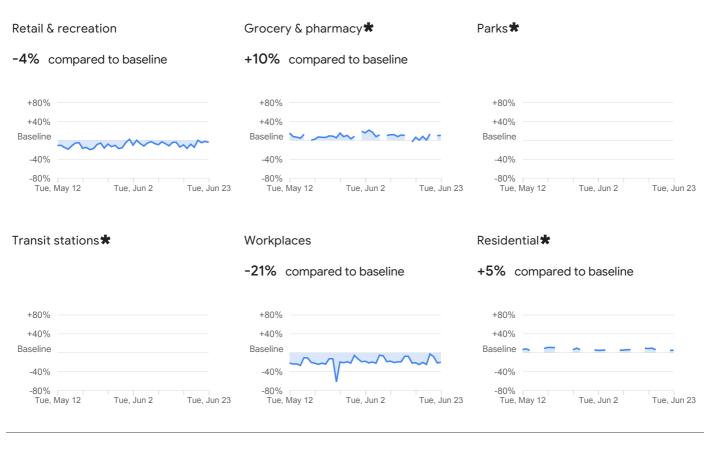


# Greensville County

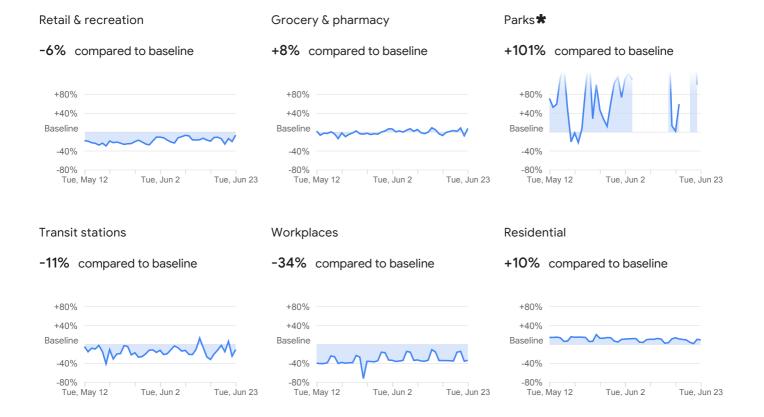


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# Halifax County

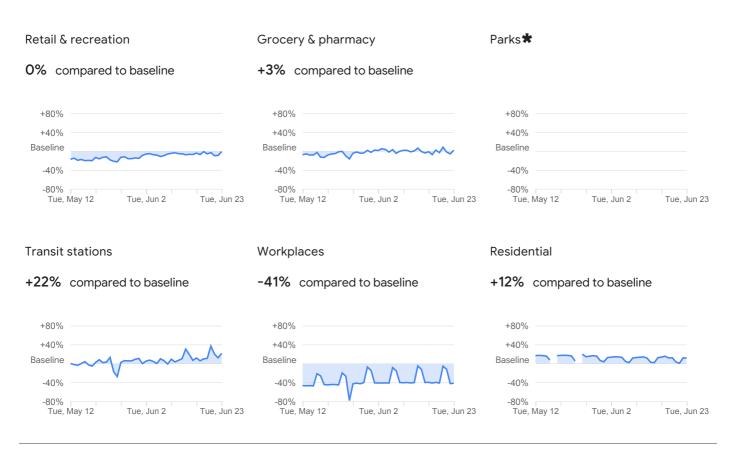


# Hampton

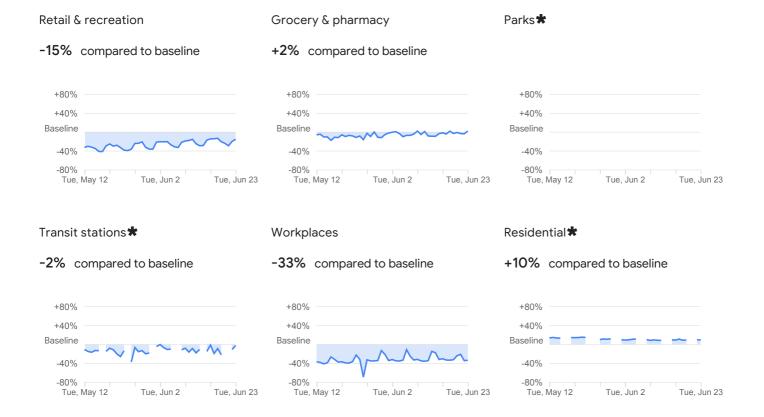


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# **Hanover County**

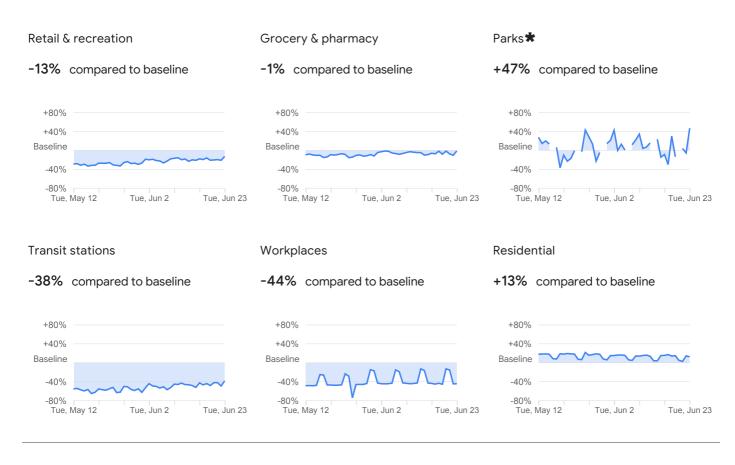


# Harrisonburg

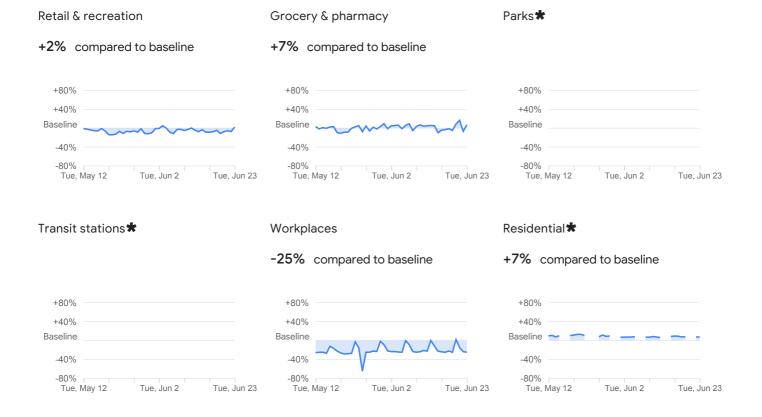


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# Henrico County

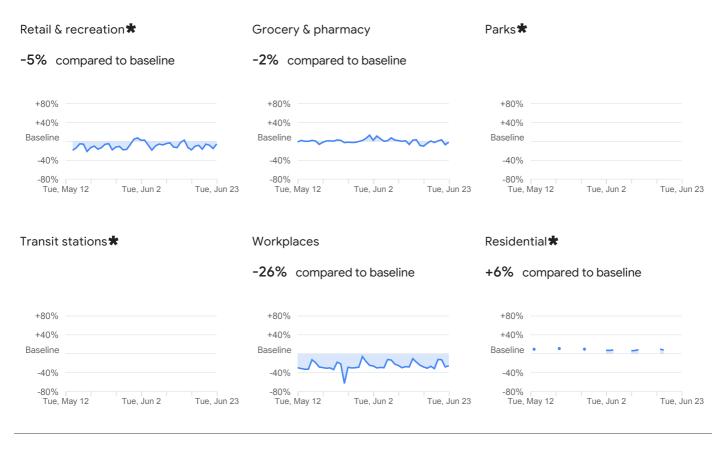


# **Henry County**

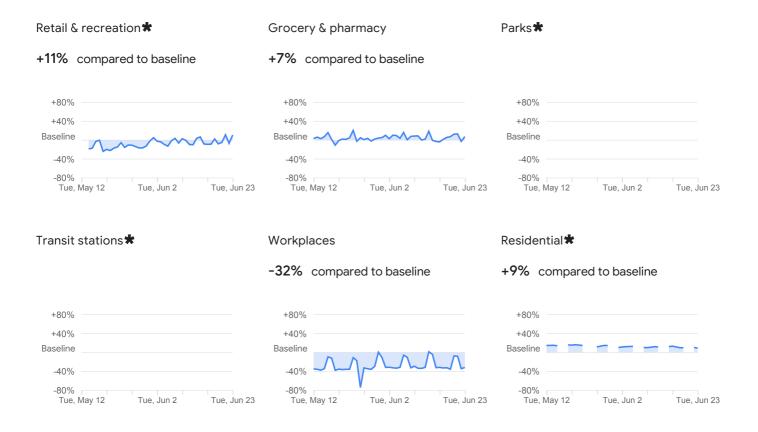


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# Hopewell

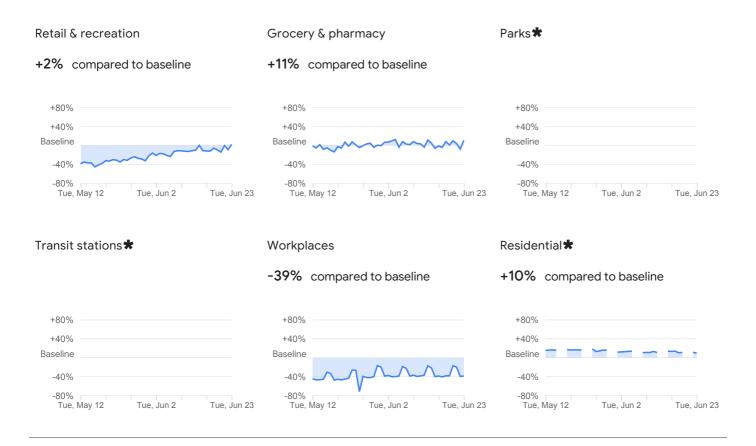


# Isle of Wight County

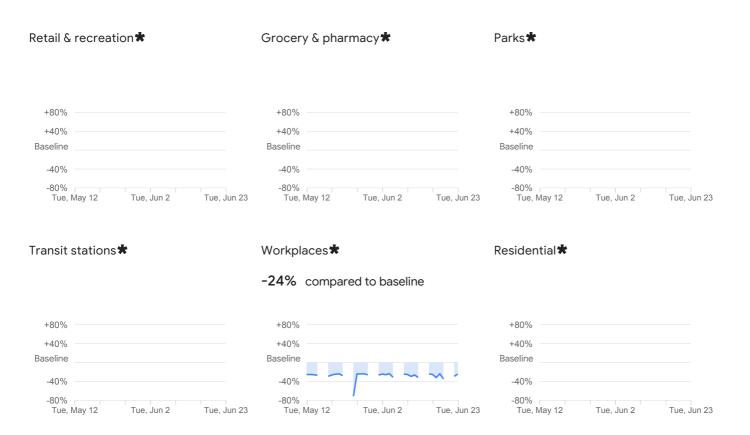


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# James City County

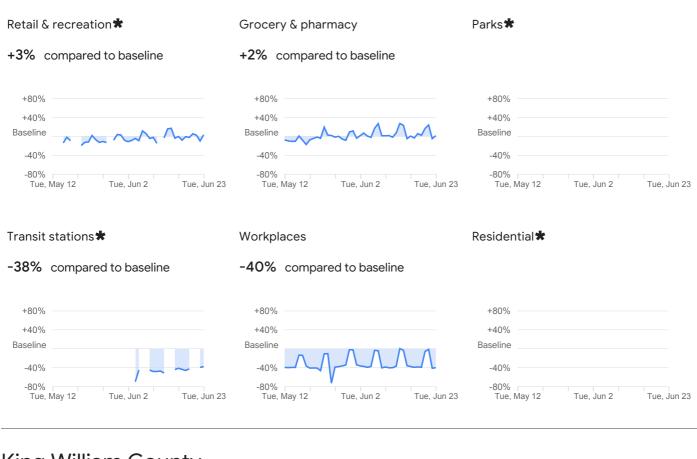


# King and Queen County

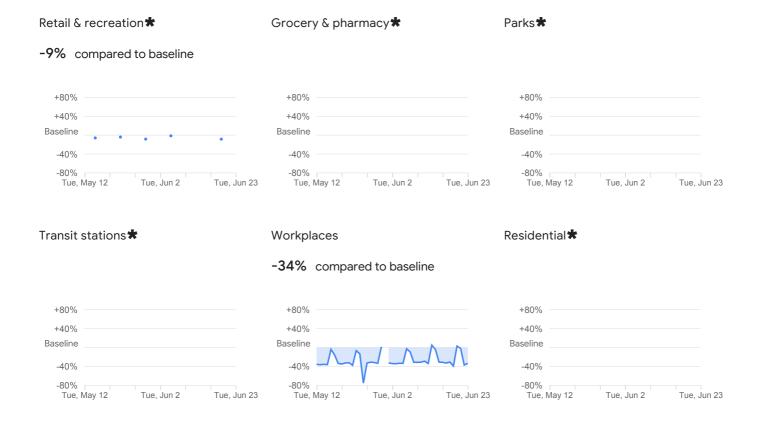


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# King George County

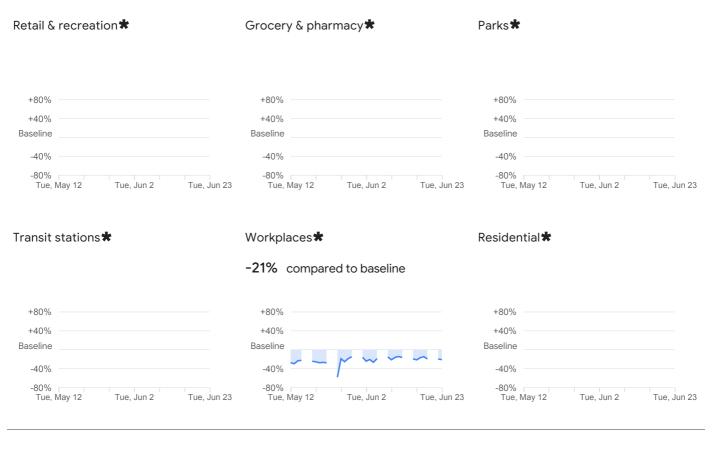


# King William County

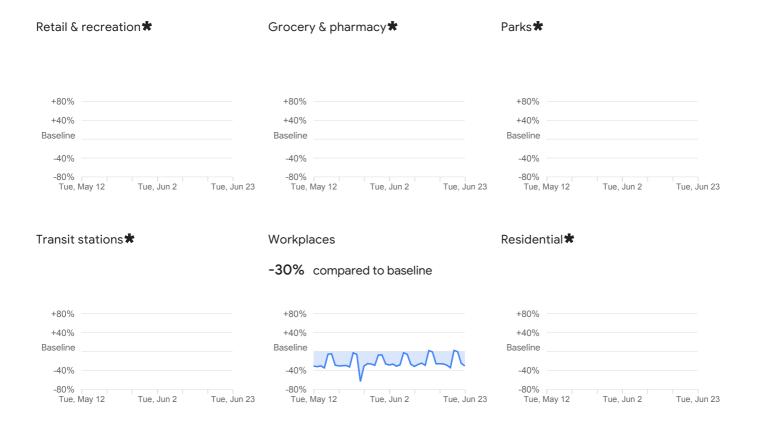


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# **Lancaster County**

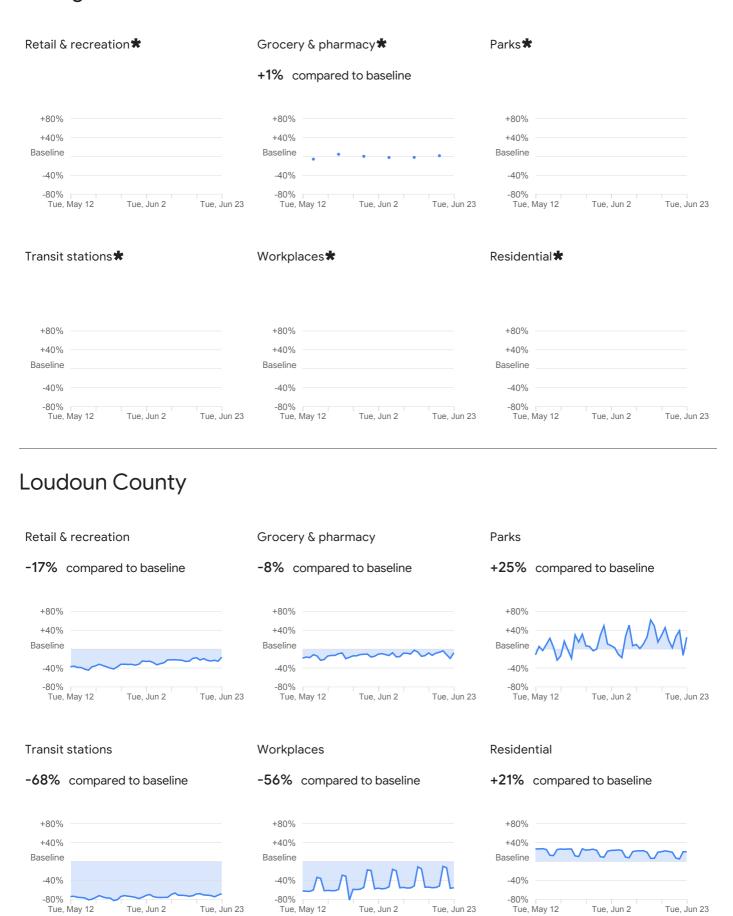


# Lee County



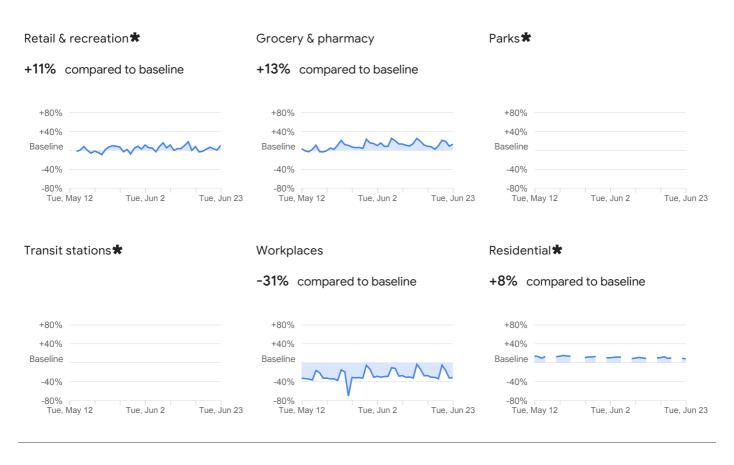
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#### Lexington

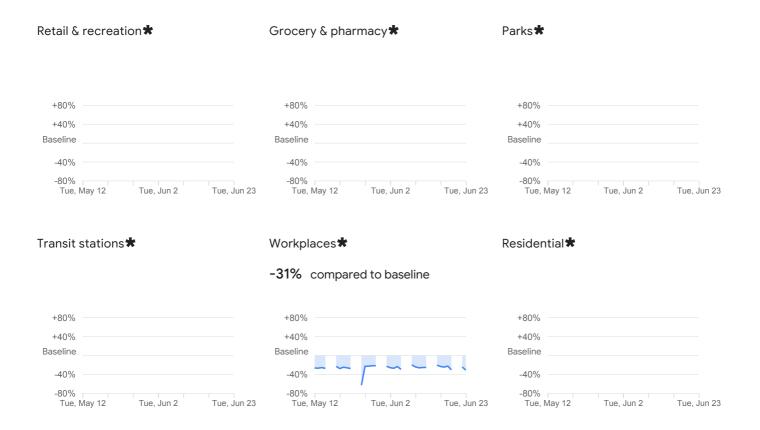


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## Louisa County

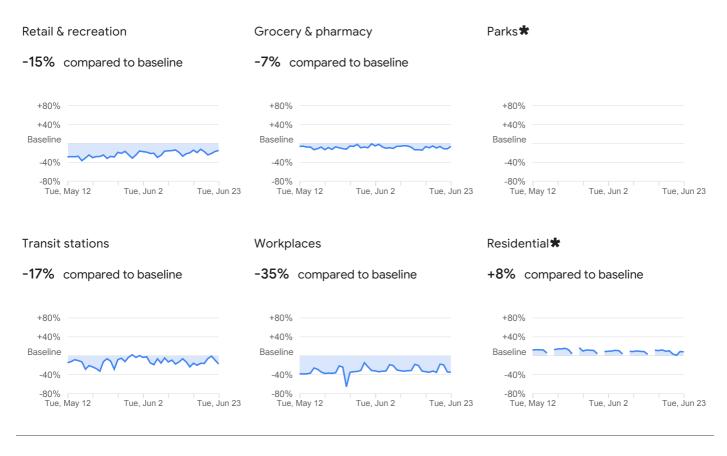


# **Lunenburg County**

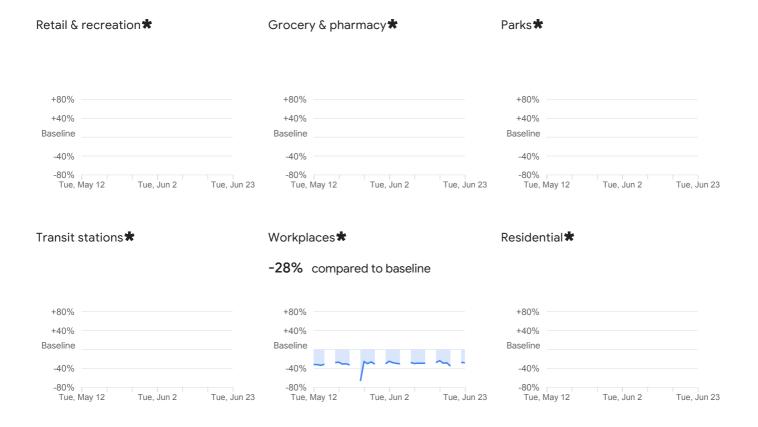


<sup>\*</sup> **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

#### Lynchburg

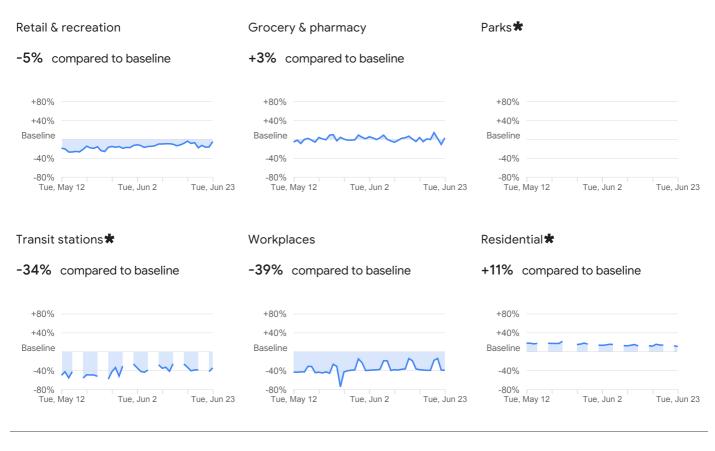


# **Madison County**

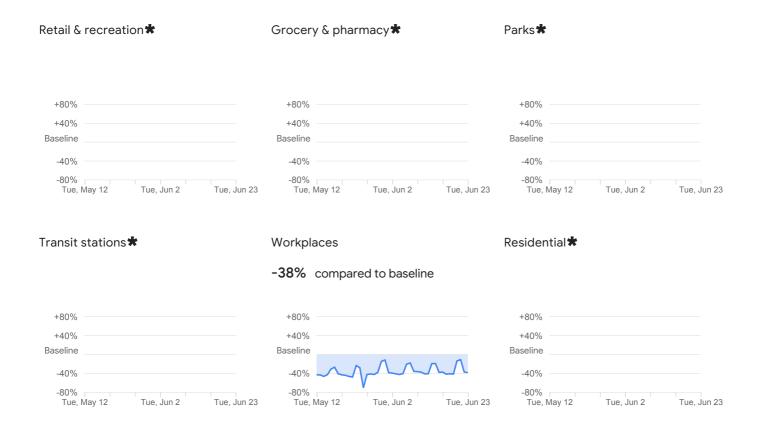


<sup>\*</sup> **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

#### Manassas

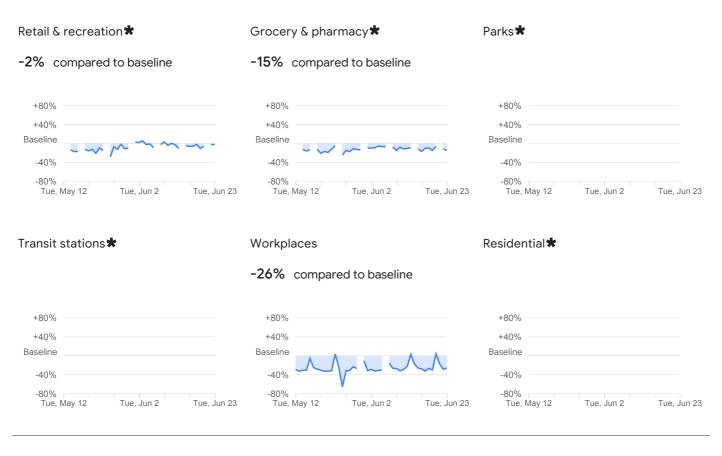


#### Manassas Park

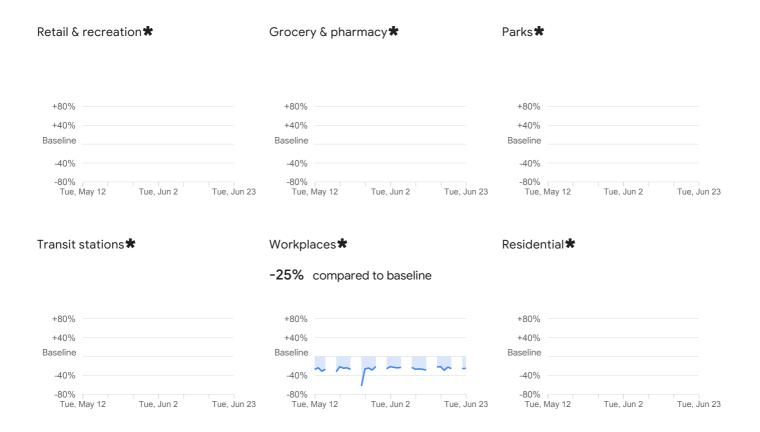


<sup>\*</sup> **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

#### Martinsville

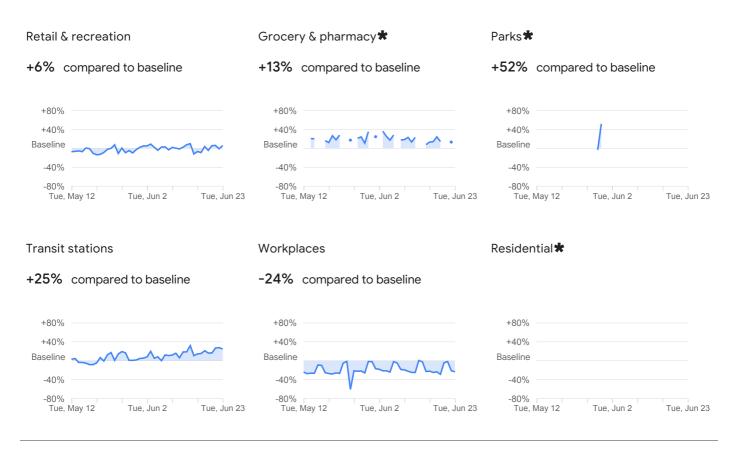


# Mathews County

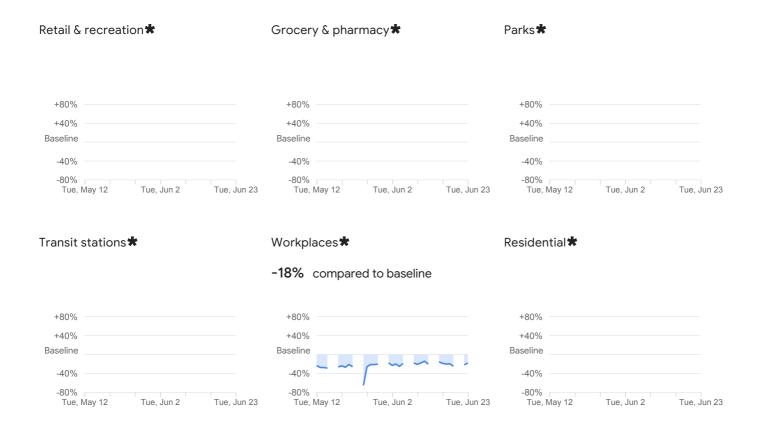


<sup>\*</sup> **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

## Mecklenburg County

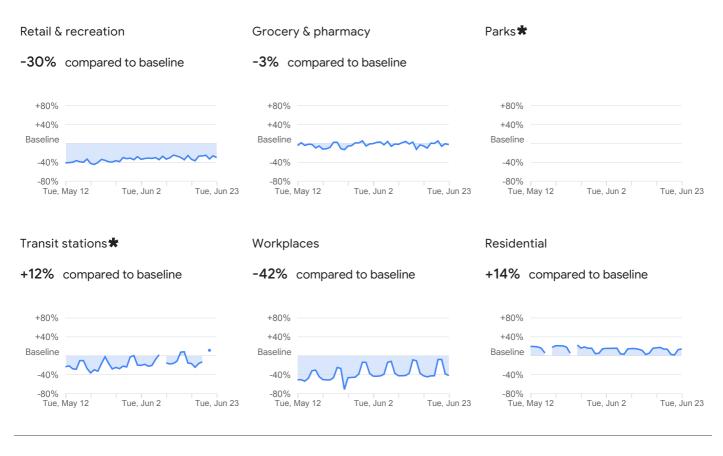


# Middlesex County

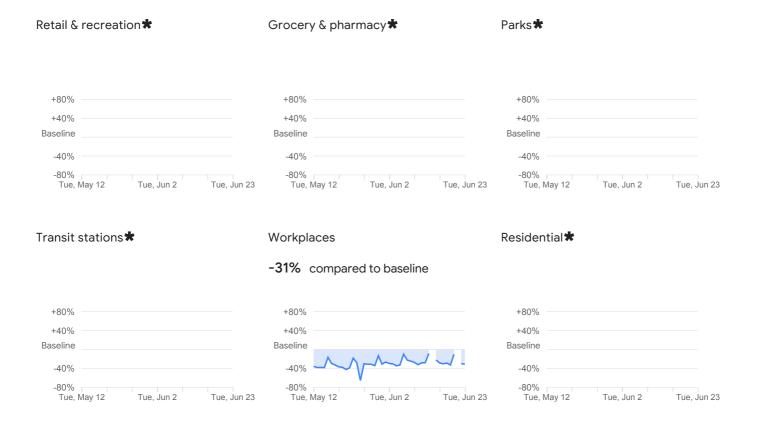


<sup>\*</sup> **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

## **Montgomery County**

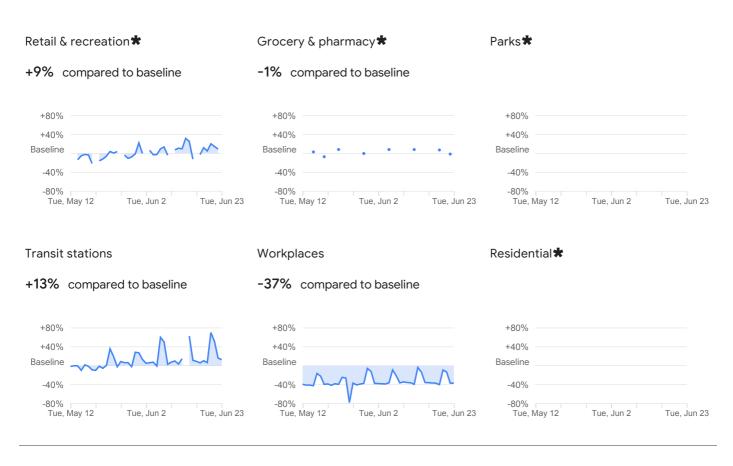


# **Nelson County**

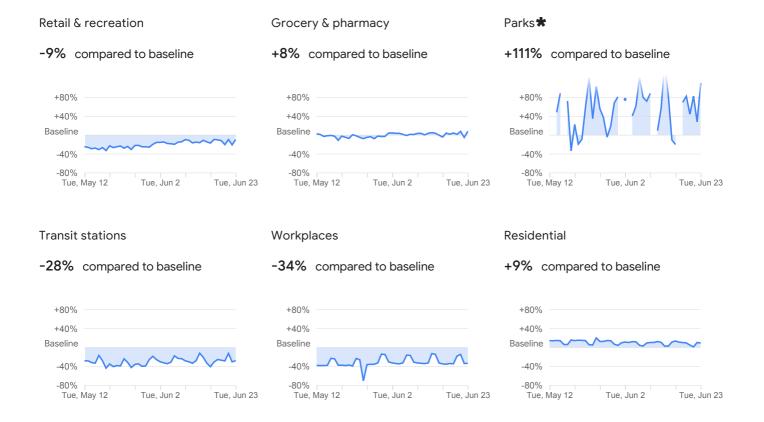


<sup>\*</sup> **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

## **New Kent County**

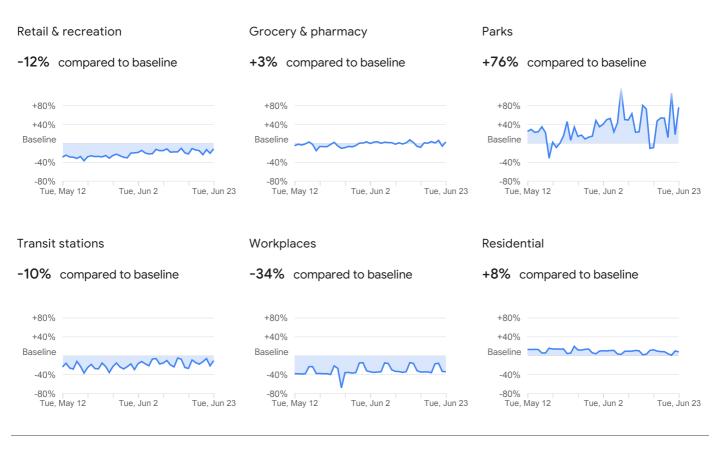


## **Newport News**

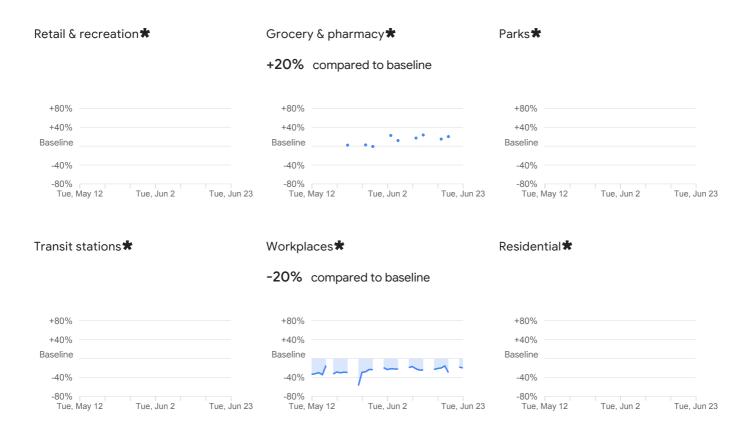


<sup>\*</sup> **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

#### Norfolk

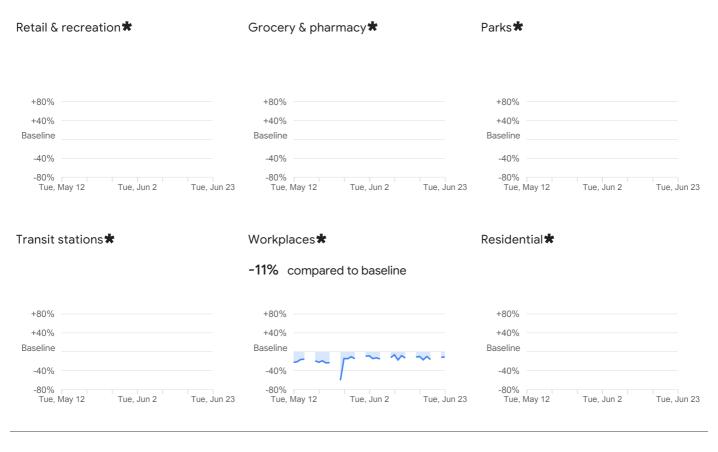


# Northampton County

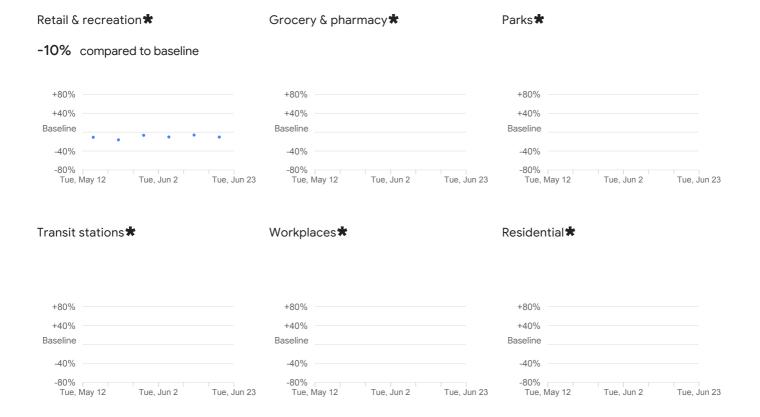


<sup>\*</sup> **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

# Northumberland County



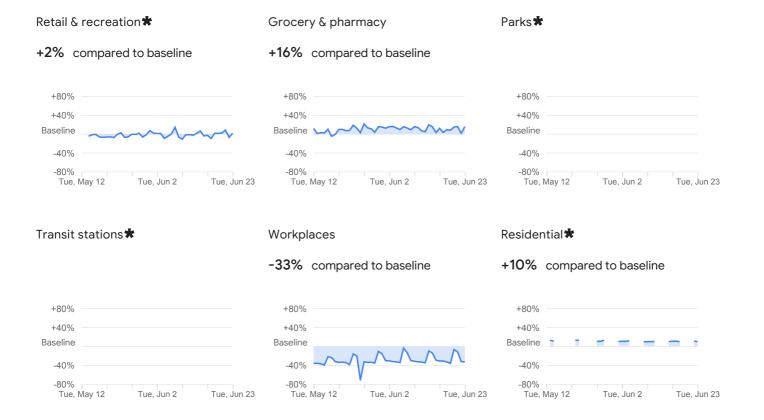
#### Norton



<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.

## **Nottoway County**

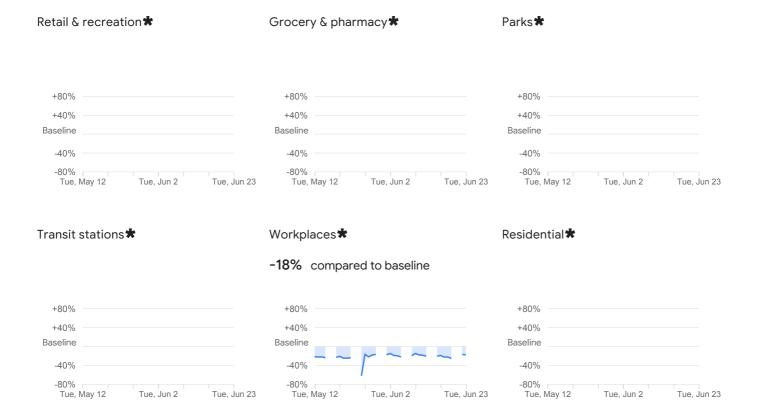




<sup>\*</sup> Not enough data for this date: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

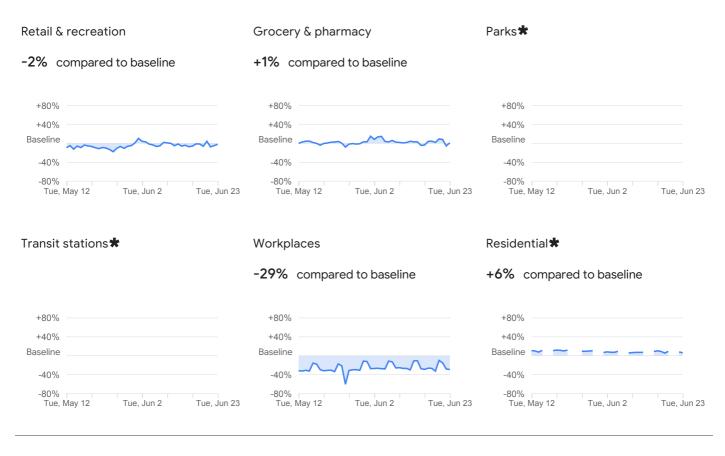
## Page County



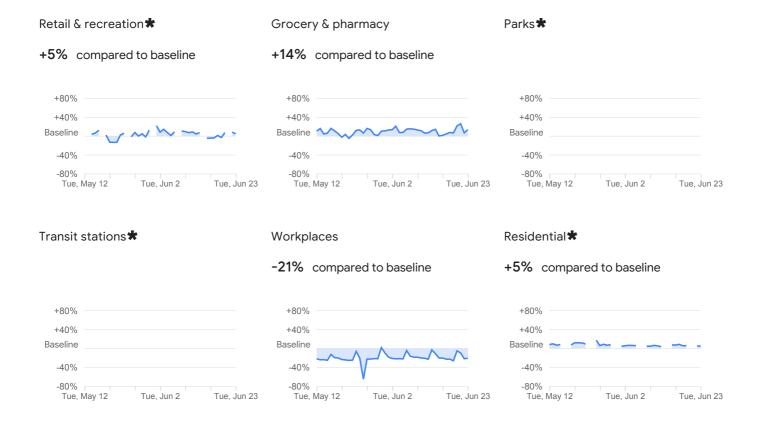


<sup>\*</sup> Not enough data for this date: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

## Petersburg

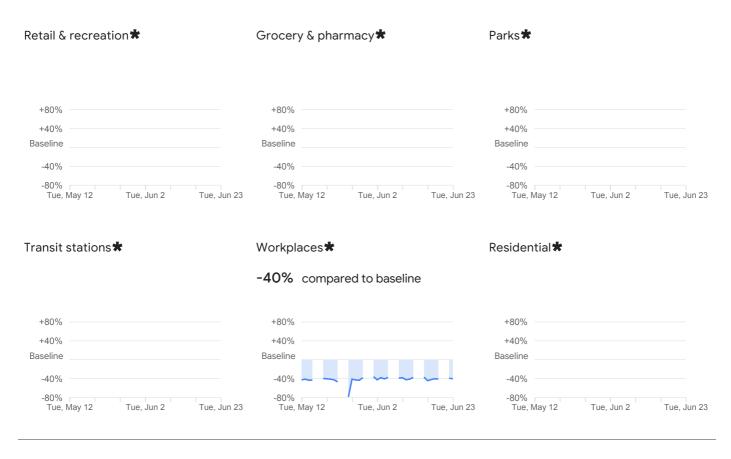


# Pittsylvania County

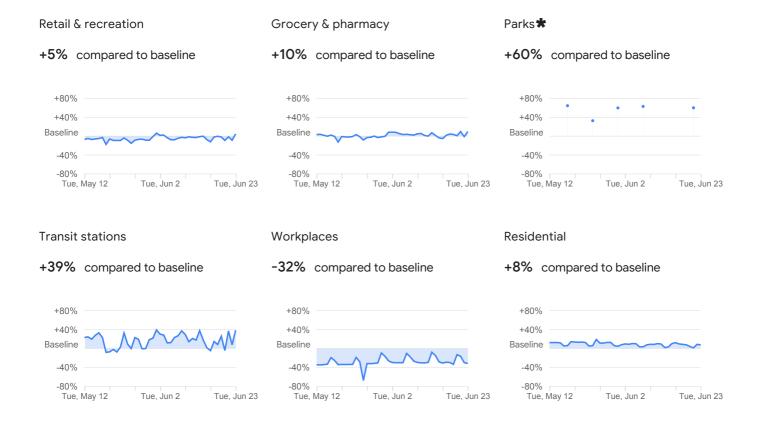


<sup>\*</sup> **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

#### Poquoson

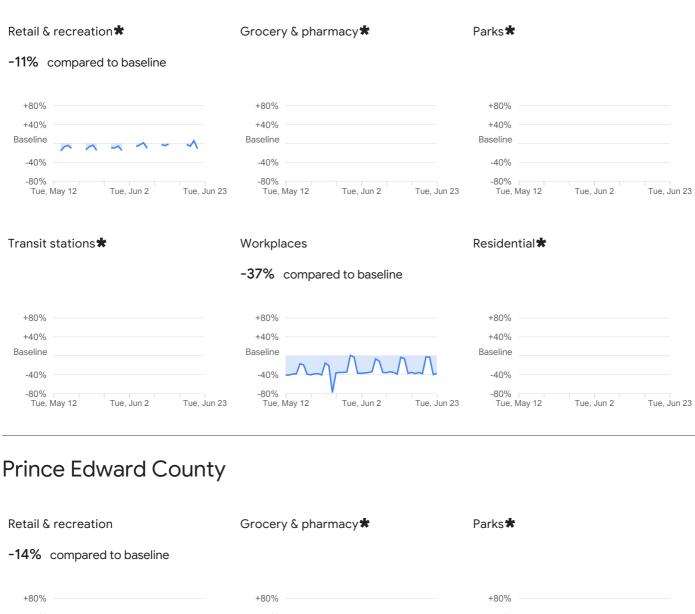


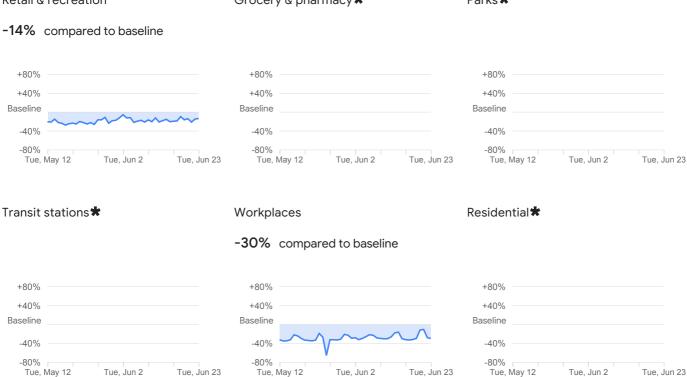
#### Portsmouth



<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.

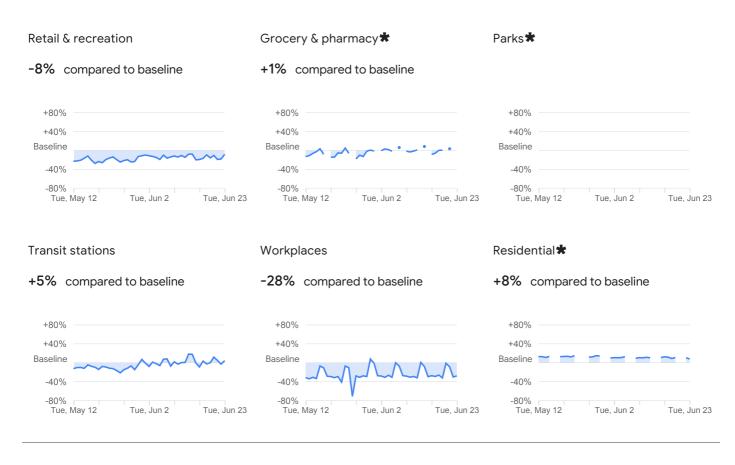
## **Powhatan County**



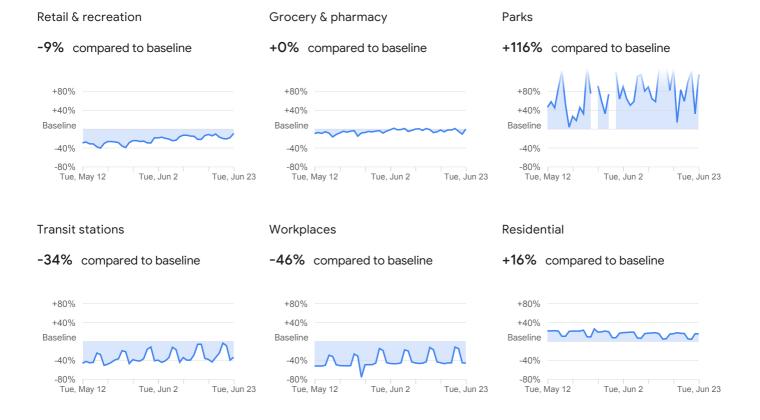


<sup>\*</sup> **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

## Prince George County

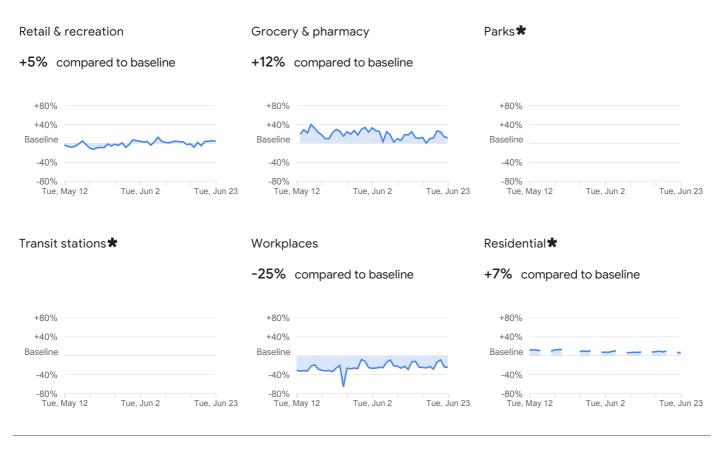


## Prince William County

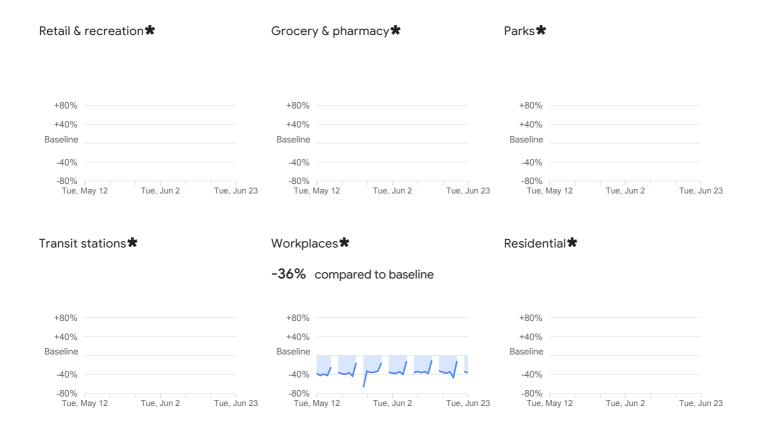


<sup>\*</sup> **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

## Pulaski County

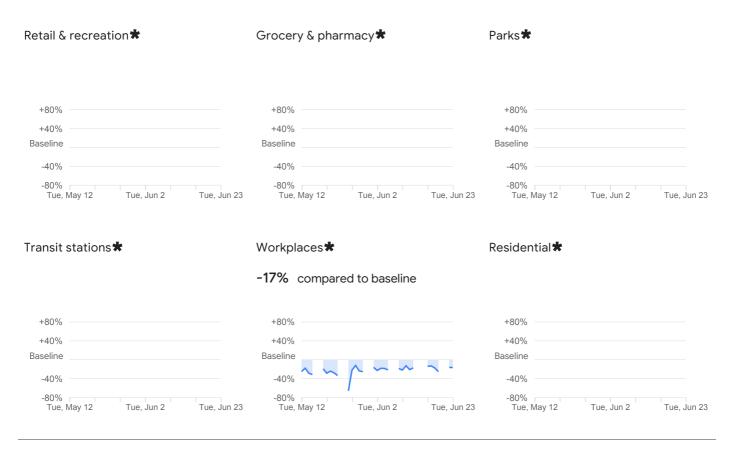


#### Radford

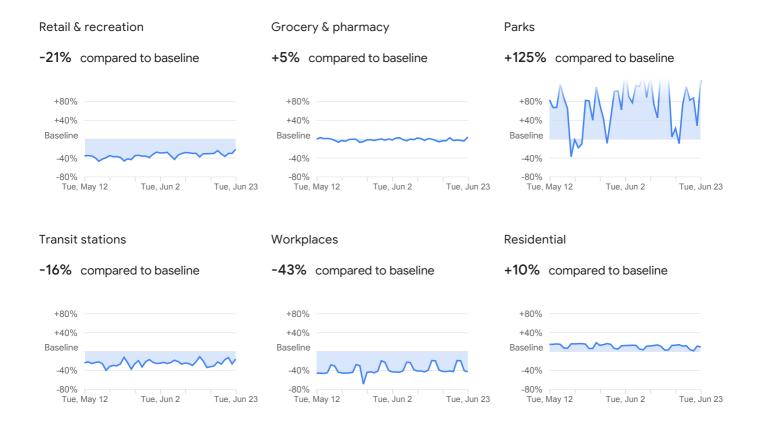


<sup>\*</sup> **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

## Rappahannock County

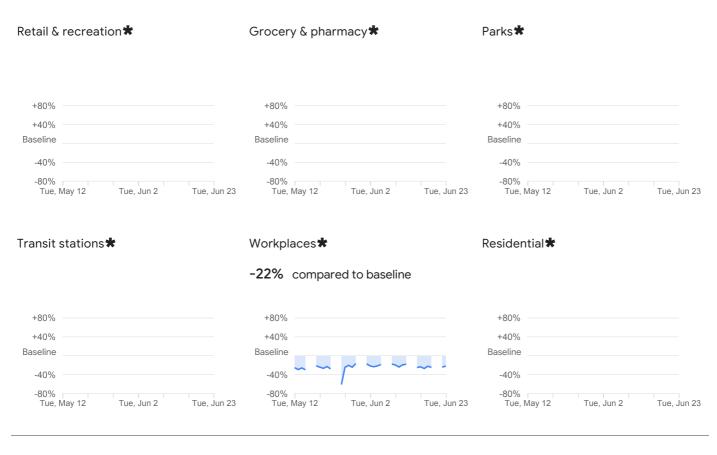


#### Richmond

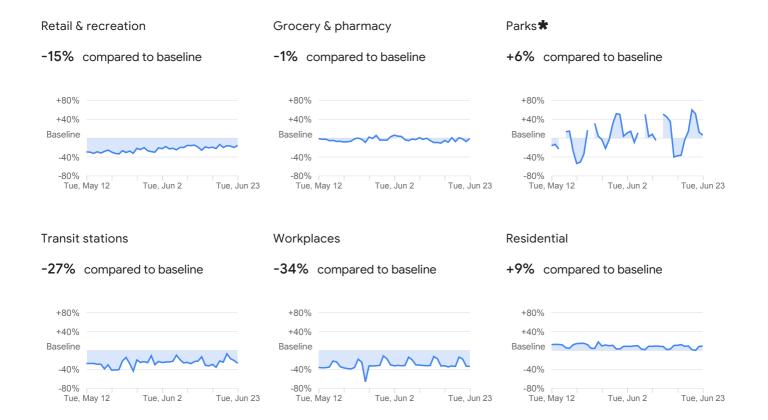


<sup>\*</sup> **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

## **Richmond County**

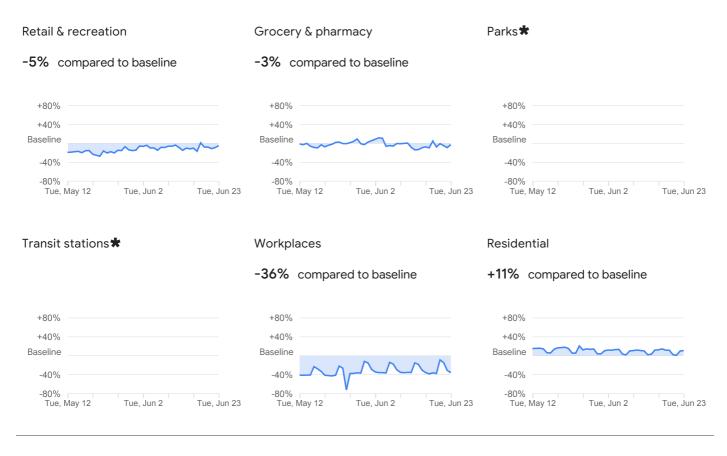


#### Roanoke

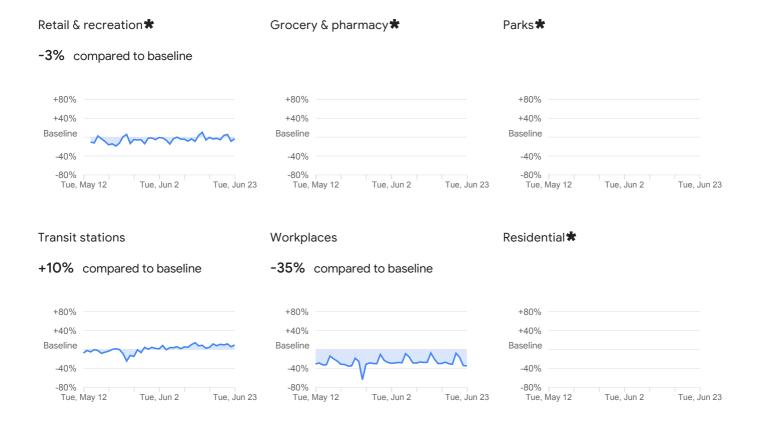


<sup>\*</sup> **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

## Roanoke County

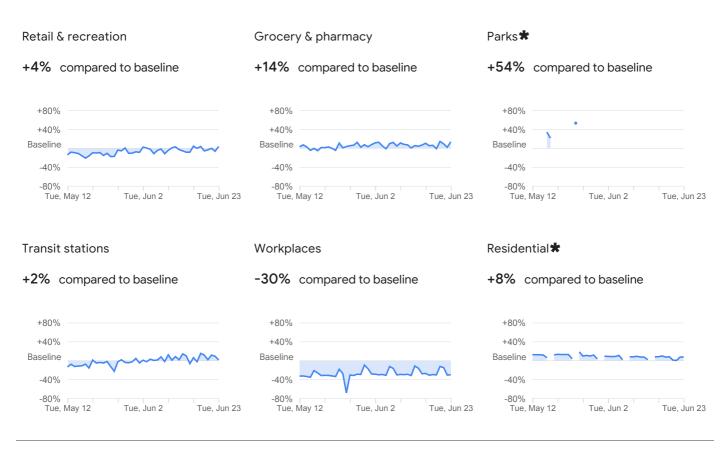


# Rockbridge County

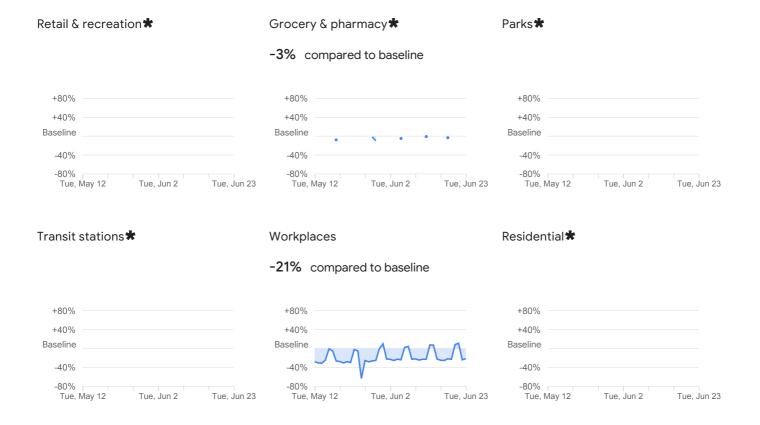


<sup>\*</sup> **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

## **Rockingham County**

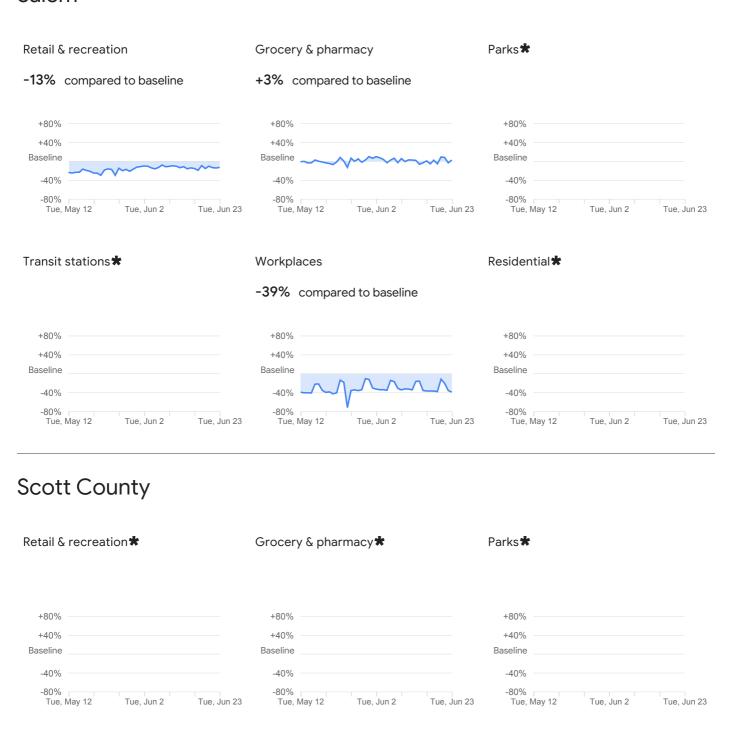


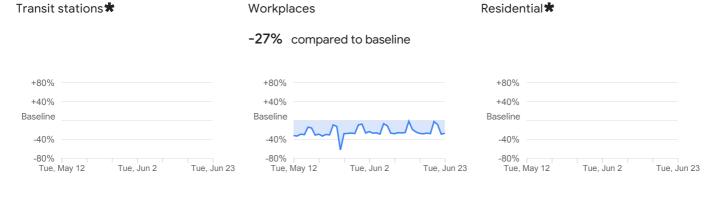
# **Russell County**



<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.

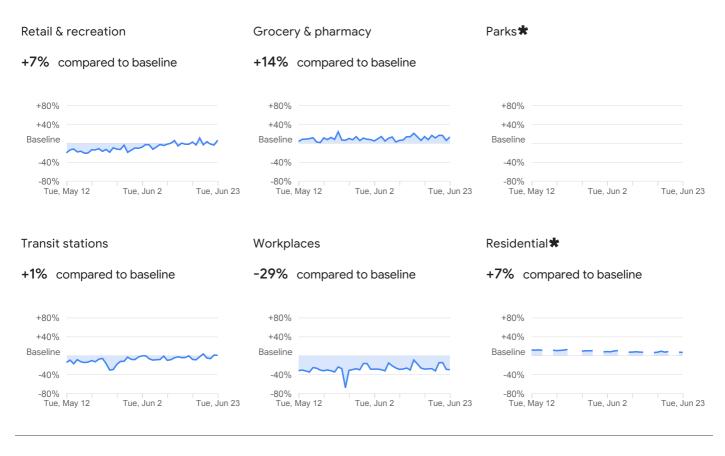
#### Salem



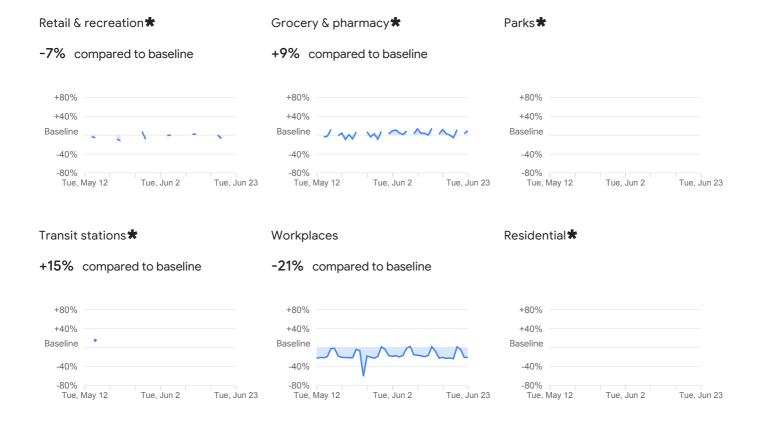


<sup>\*</sup> **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

## Shenandoah County

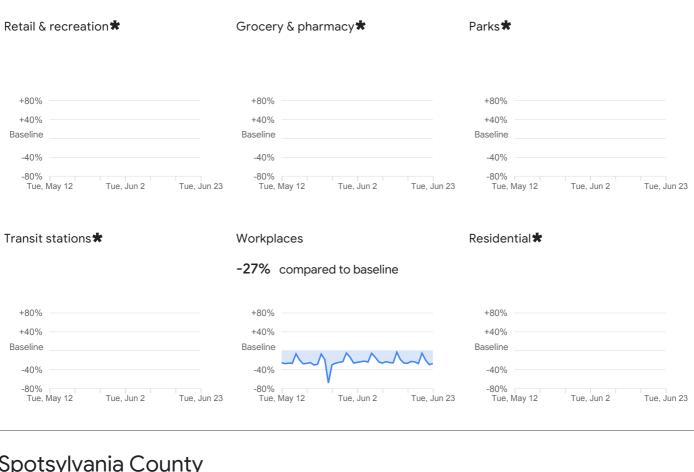


# **Smyth County**

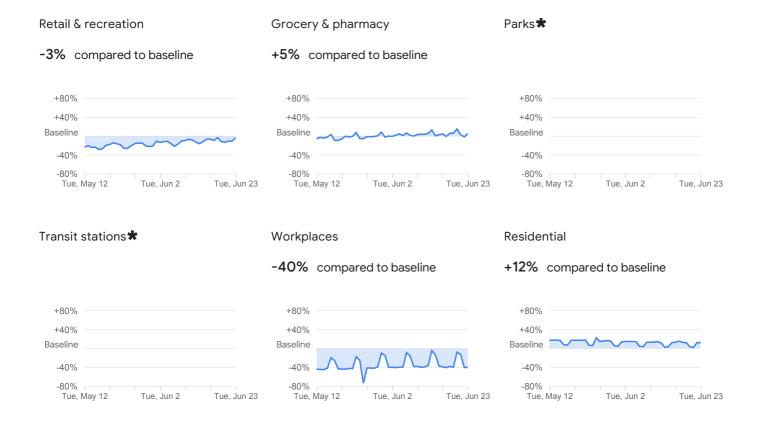


<sup>\*</sup> **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

## Southampton County

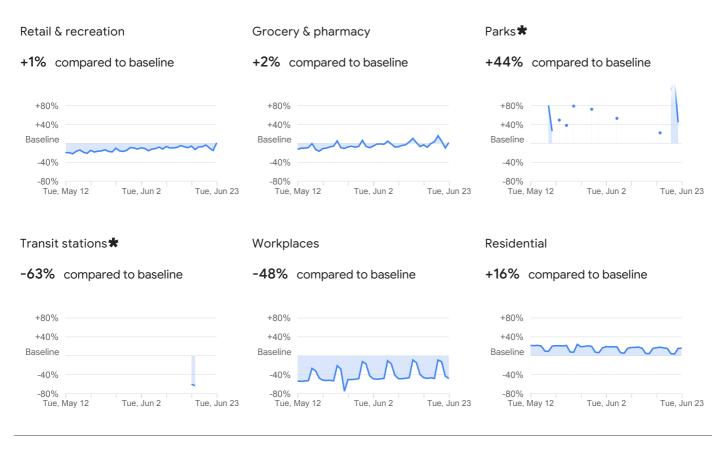


# Spotsylvania County

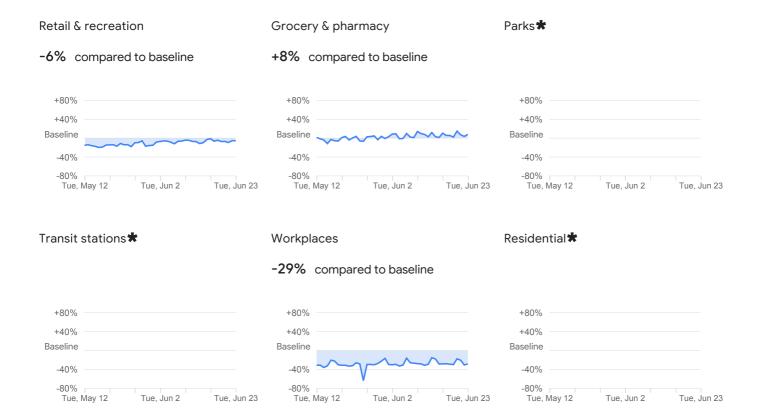


<sup>\*</sup> Not enough data for this date: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

## Stafford County

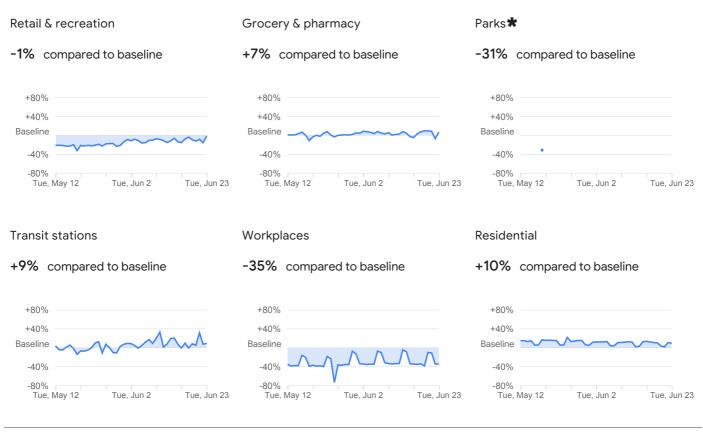


#### Staunton

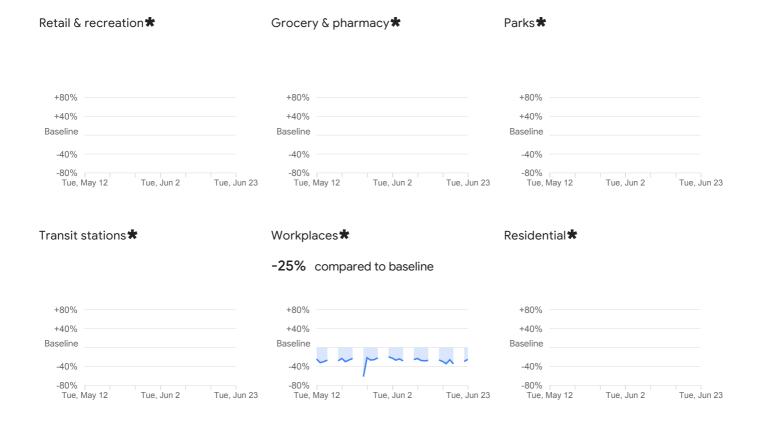


<sup>\*</sup> **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

#### Suffolk

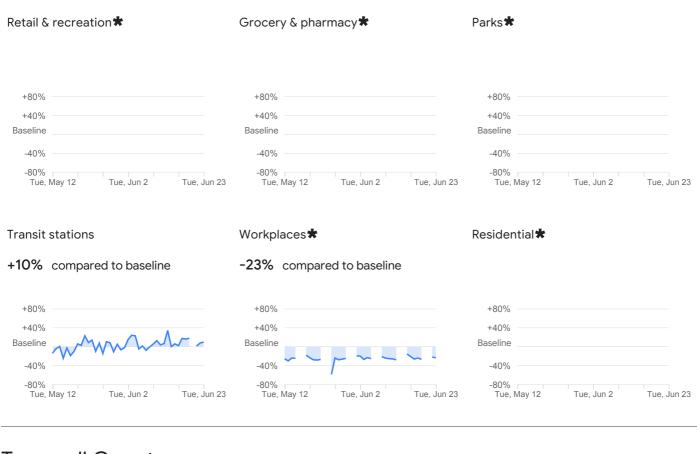


# **Surry County**

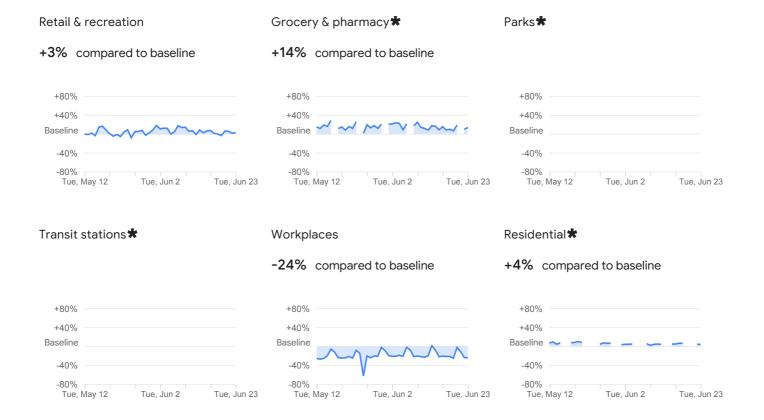


<sup>\*</sup> **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

## Sussex County

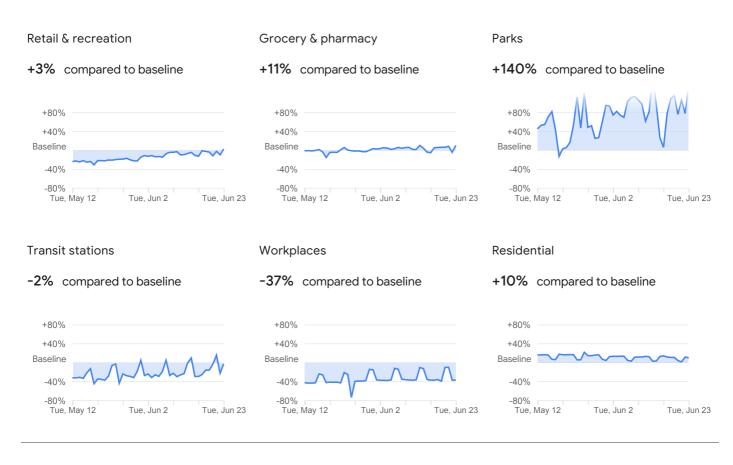


## **Tazewell County**

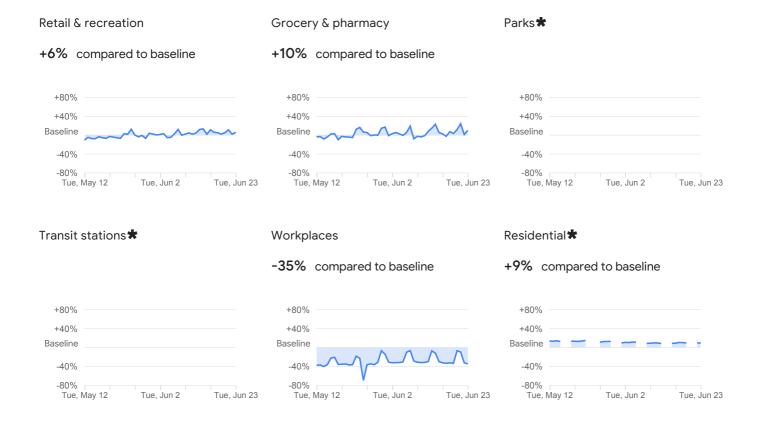


<sup>\*</sup> **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

#### Virginia Beach

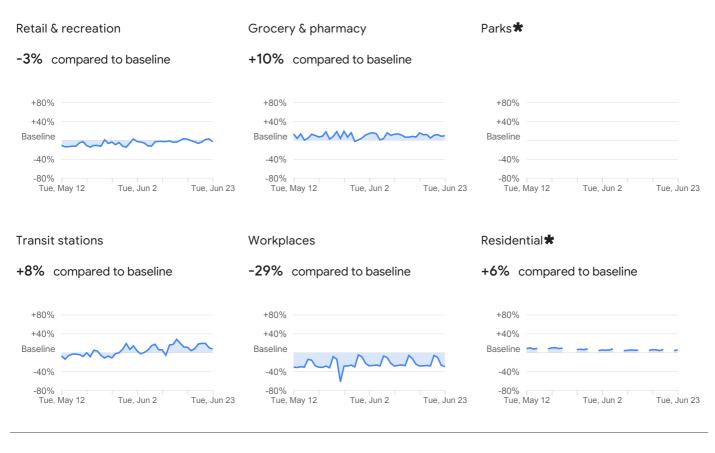


## Warren County

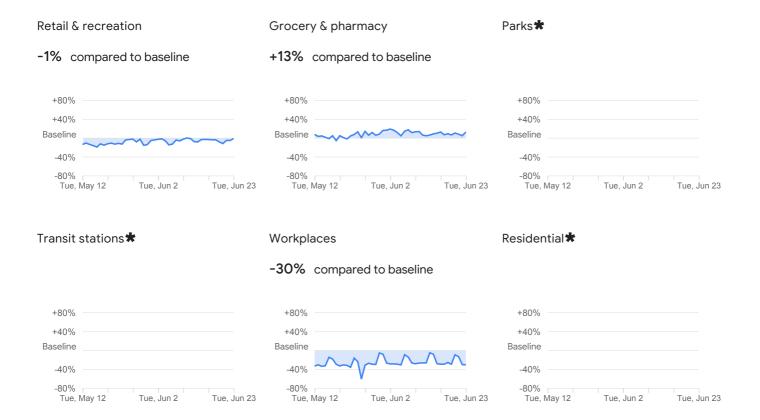


<sup>\*</sup> **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

## Washington County

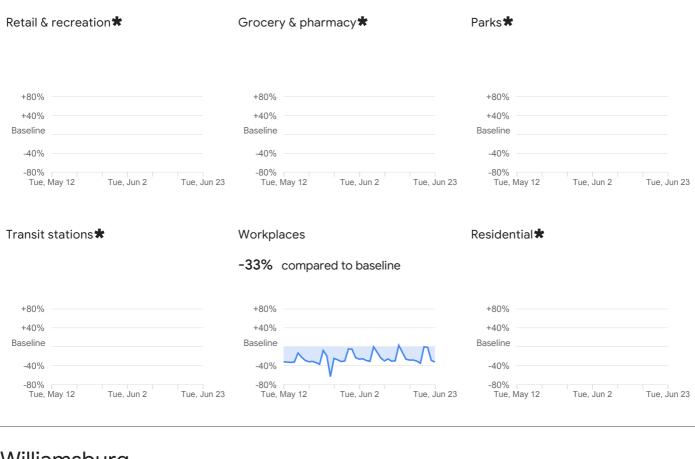


# Waynesboro

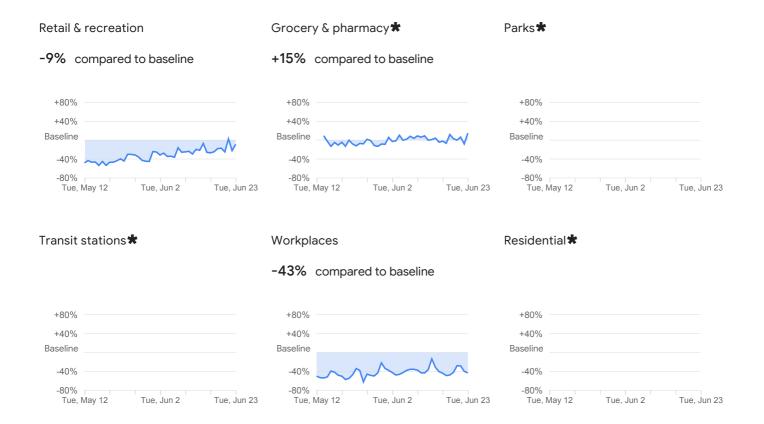


<sup>\*</sup> **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

## Westmoreland County

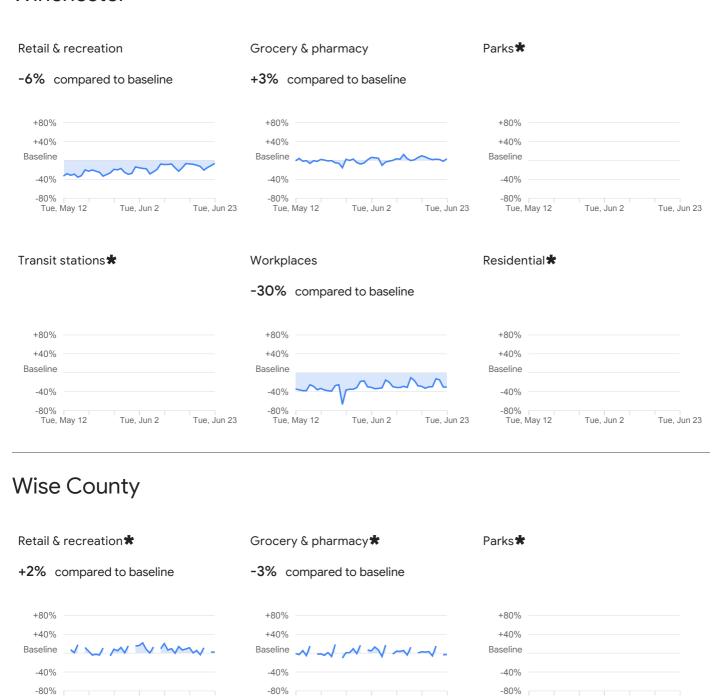


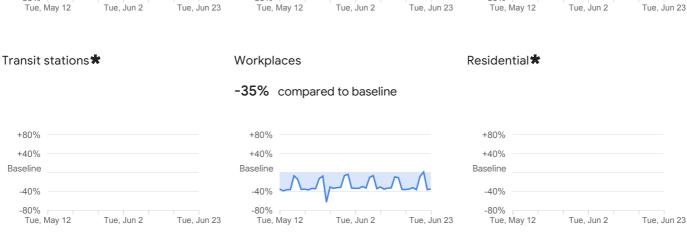
# Williamsburg



<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.

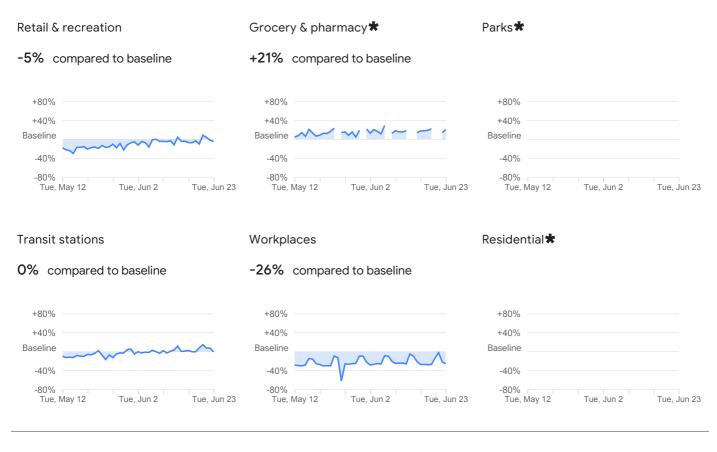
#### Winchester



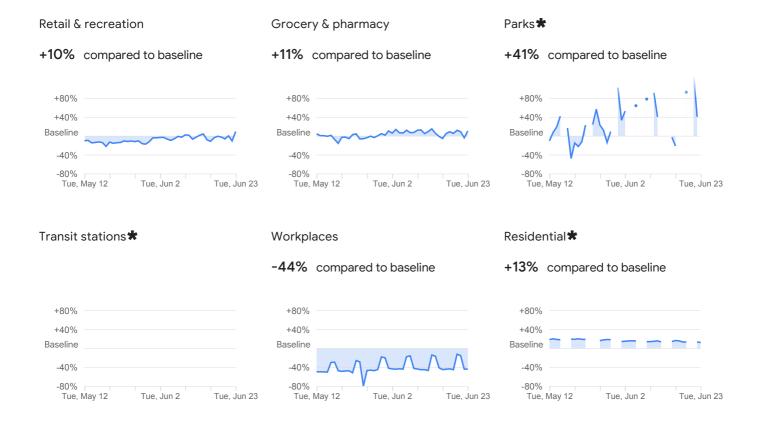


<sup>\*</sup> **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

## Wythe County



## York 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.

We continue to improve our reports as places close and reopen. We updated the way we calculate changes for *Groceries & pharmacy*, *Retail & recreation*, *Transit stations*, and *Parks* categories. For regions published before May 2020, the data may contain a consistent shift either up or down that starts between April 11–18, 2020.

#### 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 worldclass 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