

### Virginia December 18, 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.

The data shows how visits to places, such as grocery stores and parks, are changing in each geographic region. Learn how you can use this report in your work by visiting Community Mobility Reports Help.

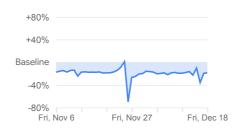
Location accuracy and the understanding of categorized places varies from region to region, so we don't recommend using this data to compare changes between countries, or between regions with different characteristics (e.g. rural versus urban areas).

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

-18%

compared to baseline

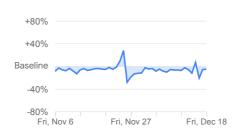


Mobility trends for places like restaurants, cafes, shopping centers, theme parks, museums, libraries, and movie theaters.

Grocery & pharmacy

-5%

compared to baseline

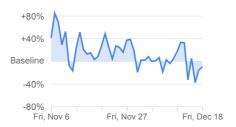


Mobility trends for places like grocery markets, food warehouses, farmers markets, specialty food shops, drug stores, and pharmacies.

**Parks** 

-10%

compared to baseline

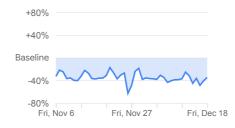


Mobility trends for places like national parks, public beaches, marinas, dog parks, plazas, and public gardens.

Transit stations

-34%

compared to baseline

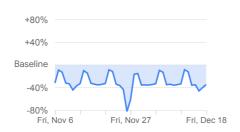


Mobility trends for places like public transport hubs such as subway, bus, and train stations.

Workplaces

-35%

compared to baseline

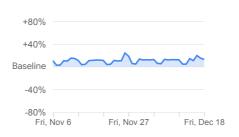


Mobility trends for places of work.

Residential

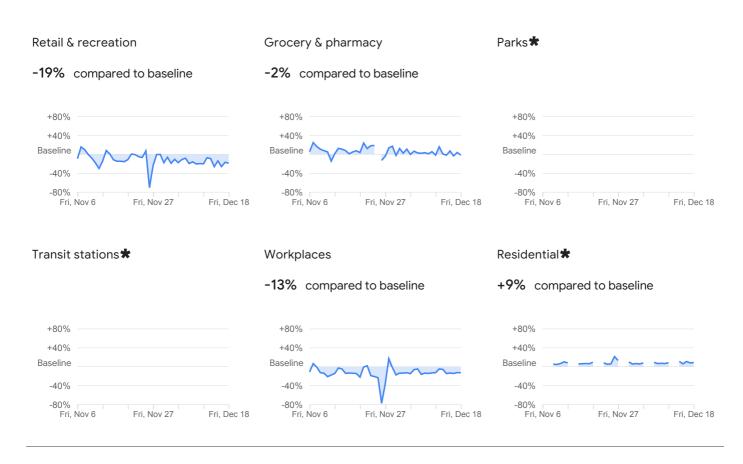
+13%

compared to baseline

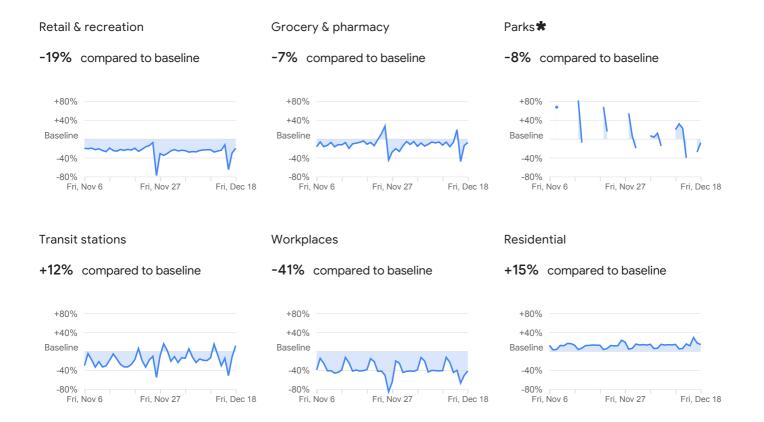


Mobility trends for places of residence.

### **Accomack County**

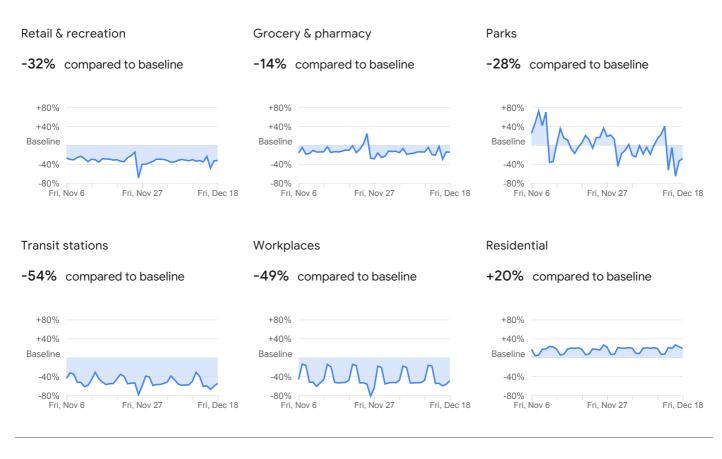


# Albemarle County

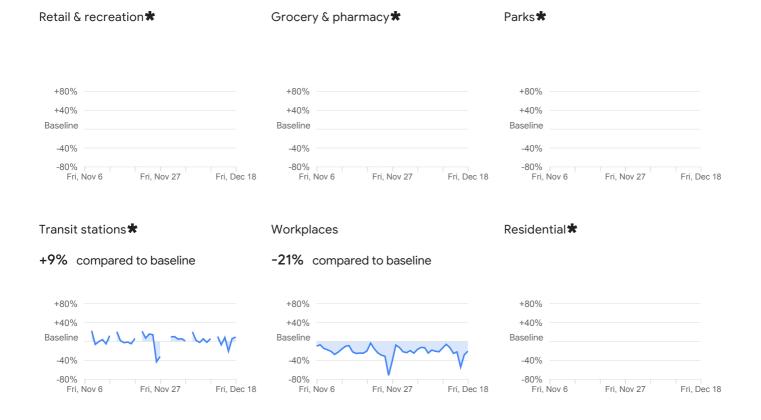


<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

### Alexandria

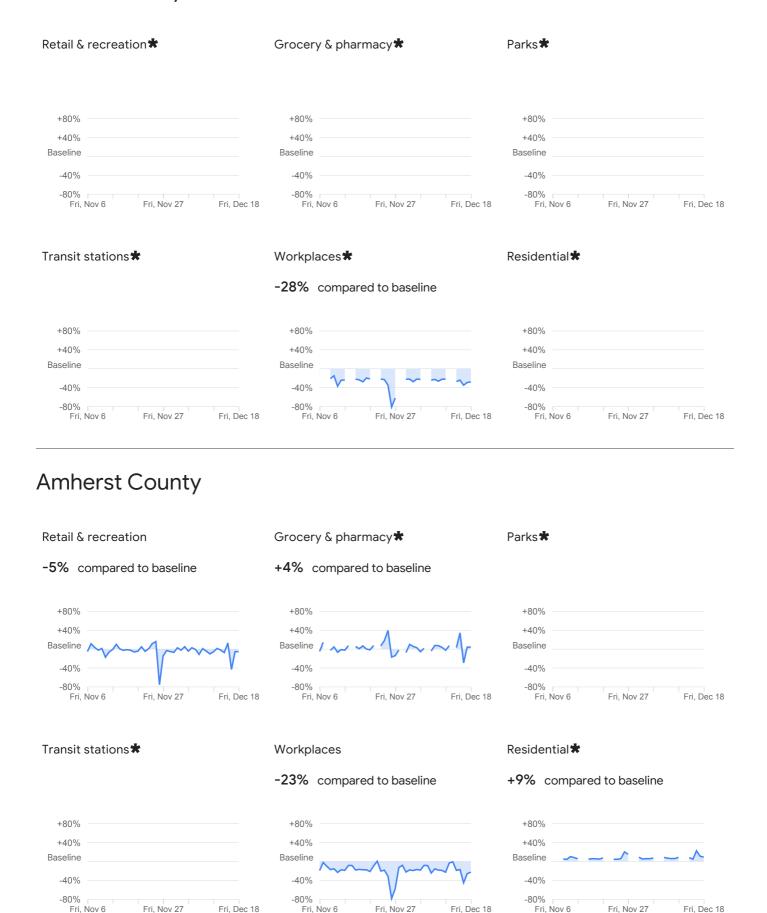


# **Alleghany County**



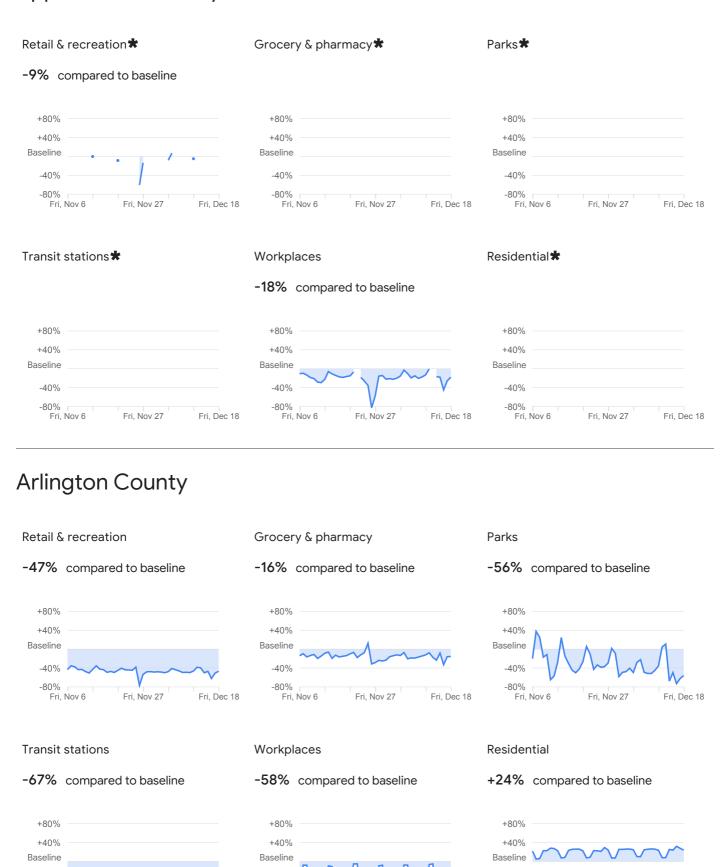
<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

### **Amelia County**



<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

### **Appomattox County**



Fri, Dec 18

-40%

-80%

Fri, Nov 6

Fri, Nov 27

-40%

-80%

Fri. Nov 6

Fri. Nov 27

-40%

-80%

Fri. Nov 6

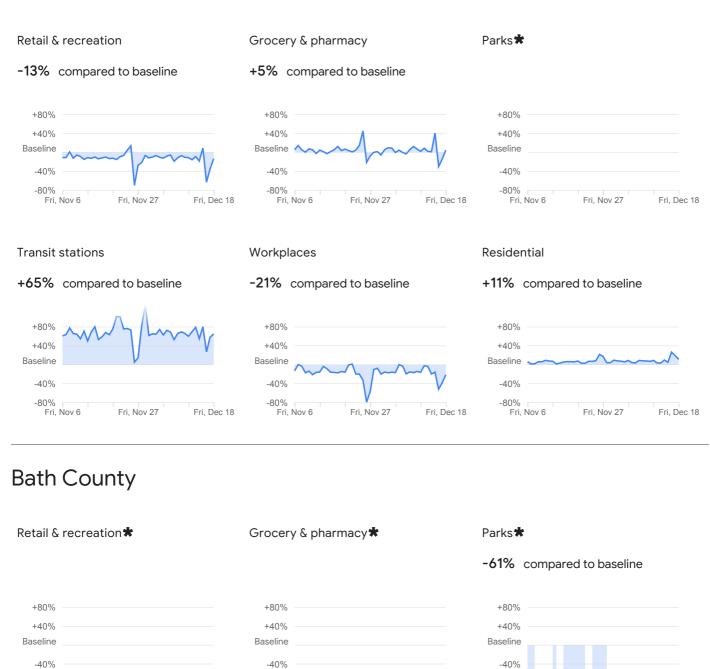
Fri. Dec 18

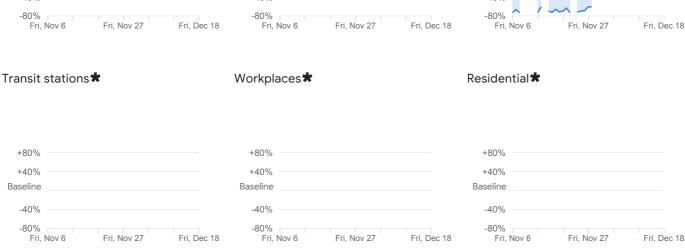
Fri, Nov 27

Fri, Dec 18

<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

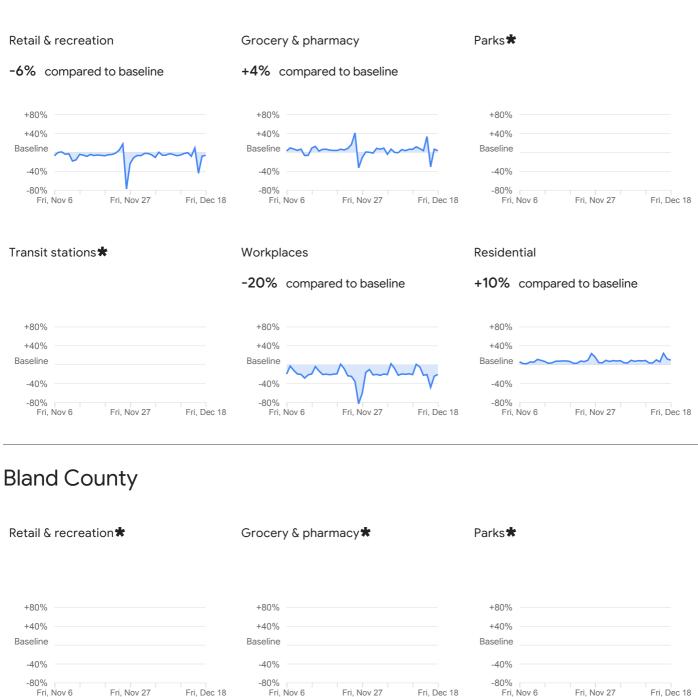
### Augusta County

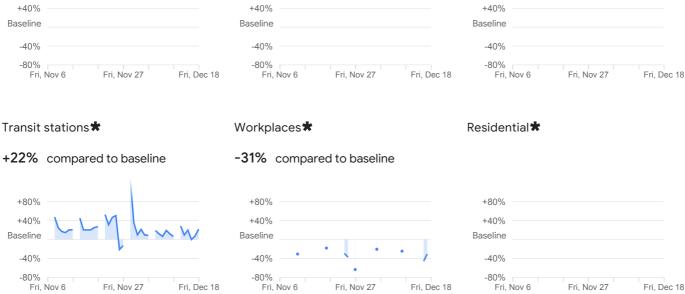




<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

# **Bedford County**





<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

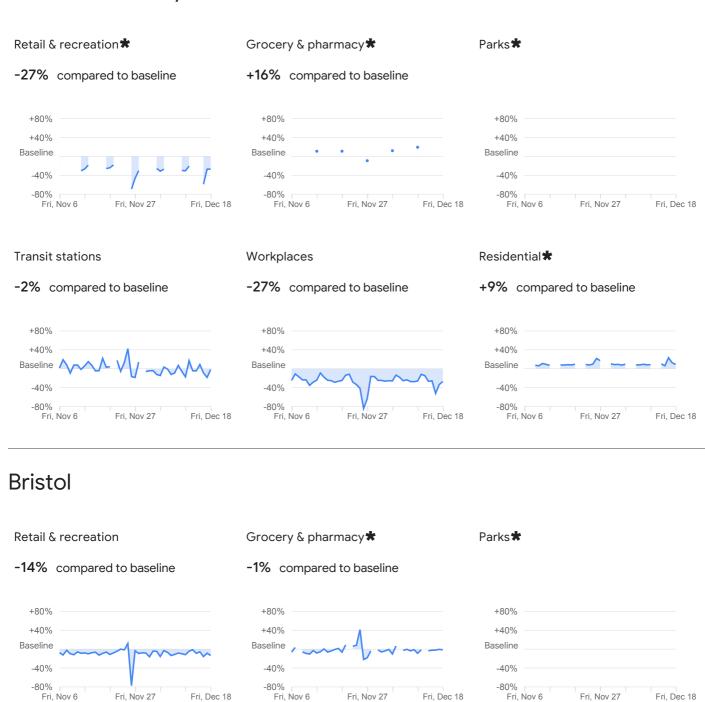
### **Botetourt County**

Transit stations\*

+80%

+40%

Baseline





Residential\*

+80%

+40%

Baseline

+7% compared to baseline

Workplaces

+80%

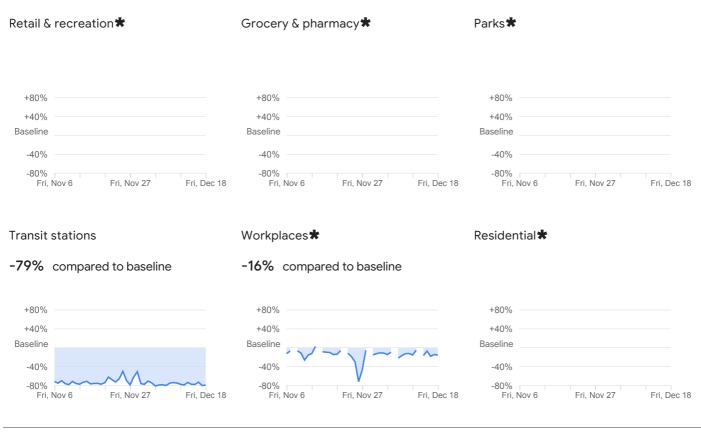
+40%

Baseline

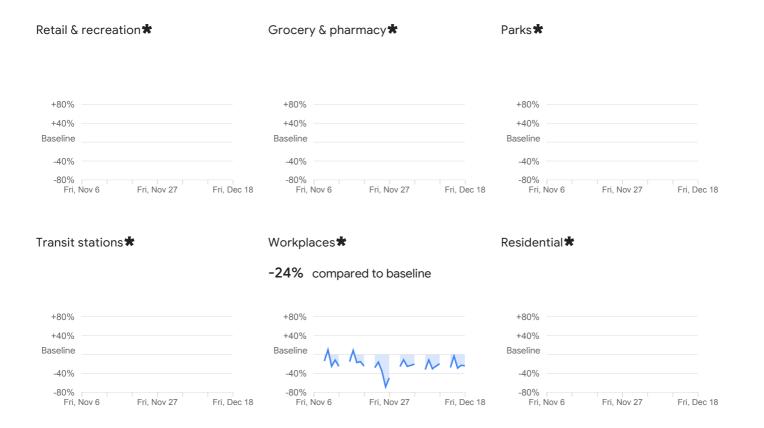
-25% compared to baseline

<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

# **Brunswick County**

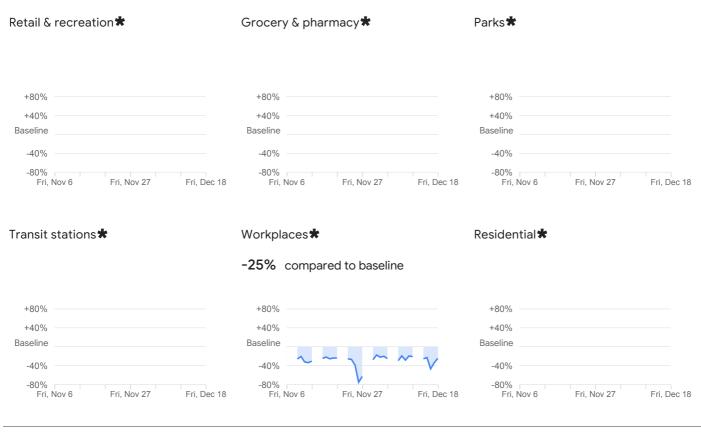


# **Buchanan County**



<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

### **Buckingham County**

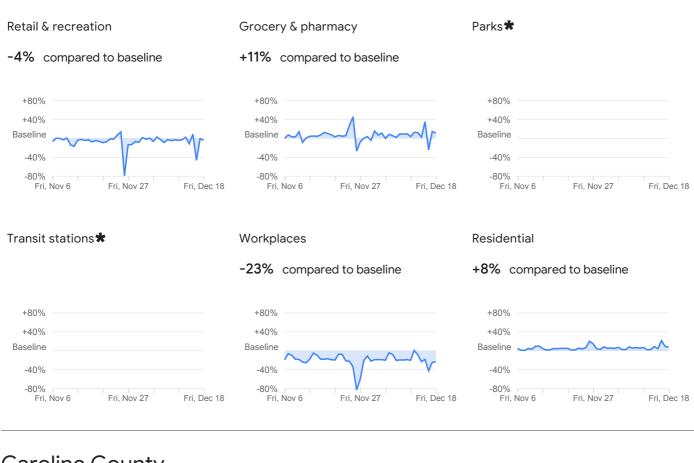


### Buena Vista

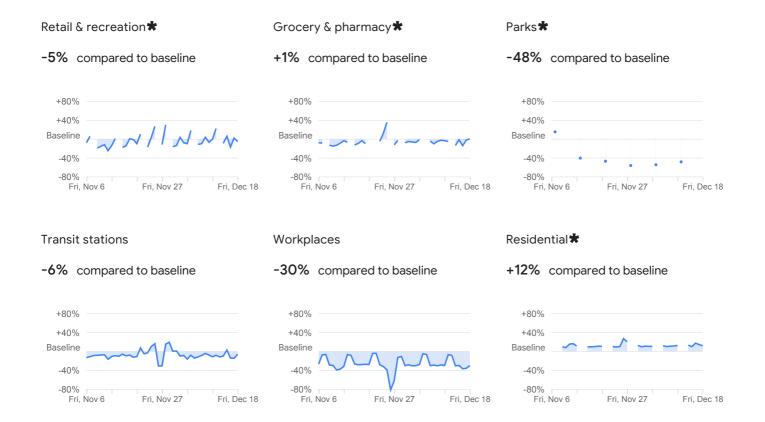


<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

### Campbell County

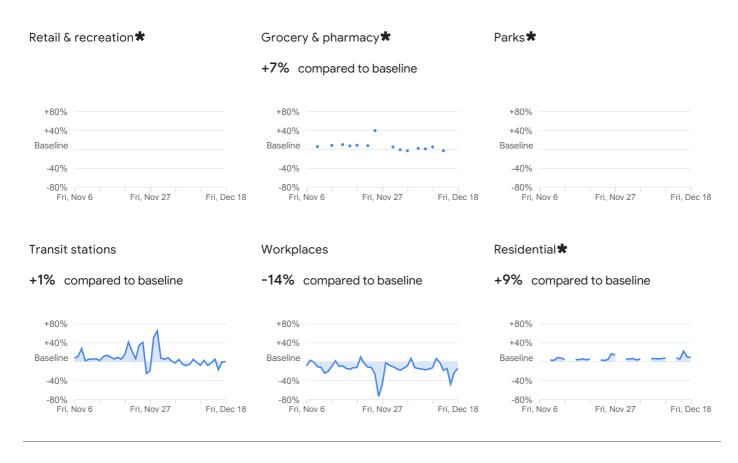


# Caroline County

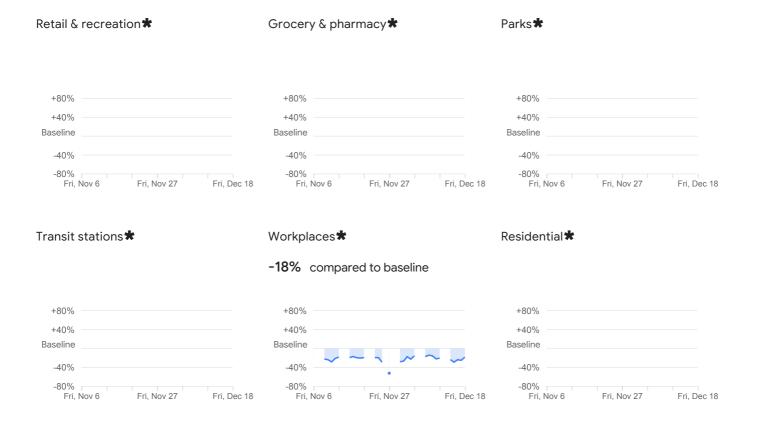


<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

# Carroll County

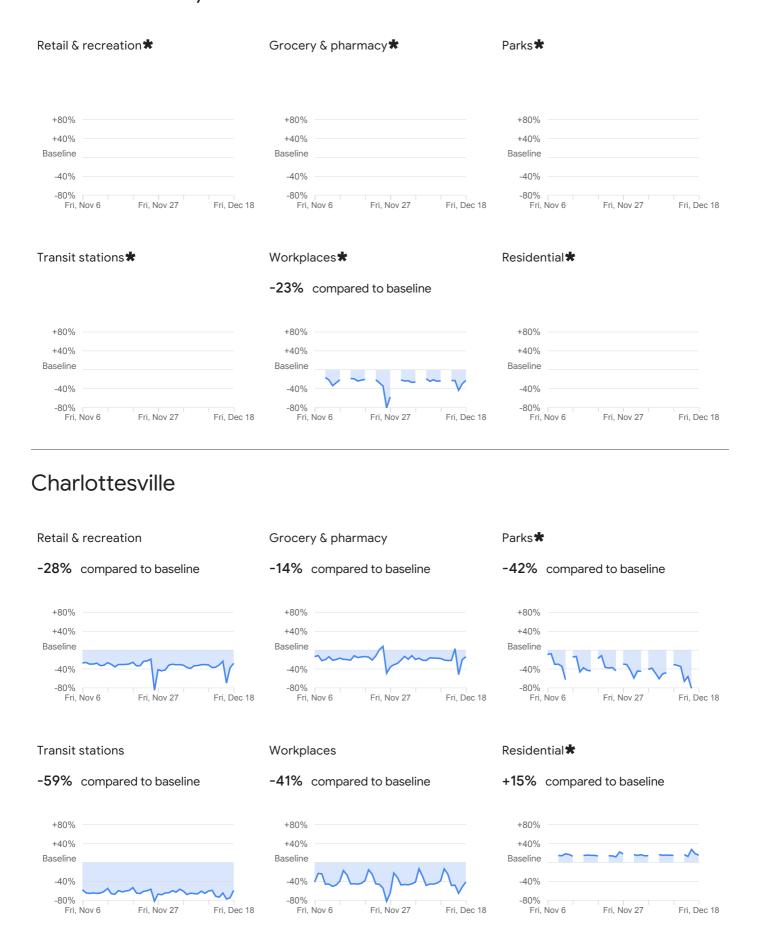


# Charles City County



<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

### Charlotte County

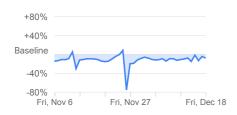


<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

### Chesapeake

#### Retail & recreation

-8% compared to baseline



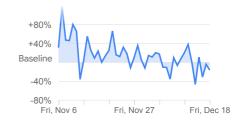
#### Grocery & pharmacy

+5% compared to baseline



#### Parks

-16% compared to baseline



#### Transit stations

-19% compared to baseline



#### Workplaces

-33% compared to baseline



#### Residential

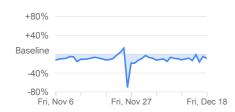
+11% compared to baseline



# **Chesterfield County**

#### Retail & recreation

-9% compared to baseline



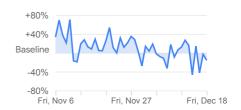
#### Grocery & pharmacy

-2% compared to baseline



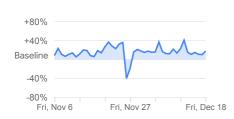
#### Parks

-15% compared to baseline



#### Transit stations

+18% compared to baseline



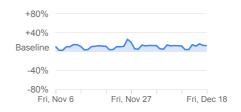
#### Workplaces

-35% compared to baseline

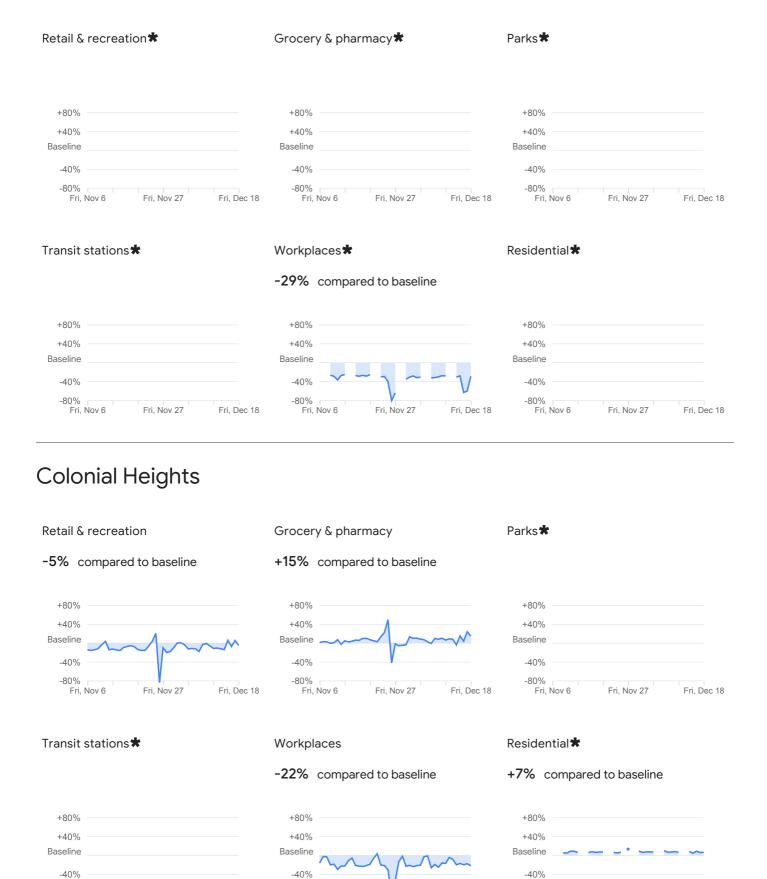


#### Residential

+12% compared to baseline



# Clarke County



Fri, Dec 18

-80%

Fri, Nov 6

Fri, Nov 27

-80%

Fri. Dec 18

Fri, Nov 6

Fri, Nov 27

Fri, Dec 18

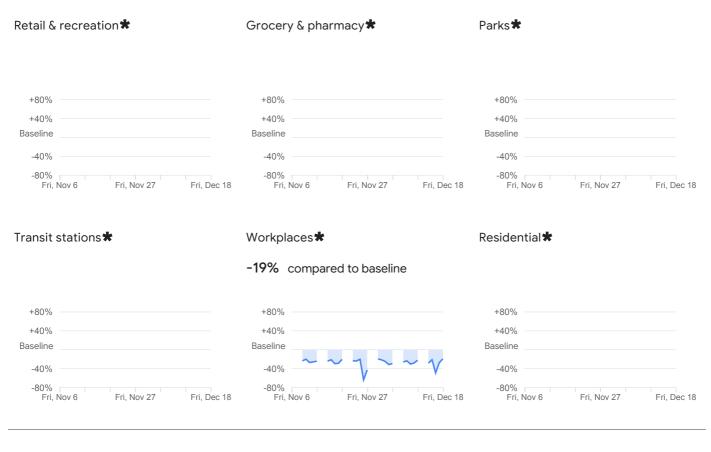
-80%

Fri, Nov 6

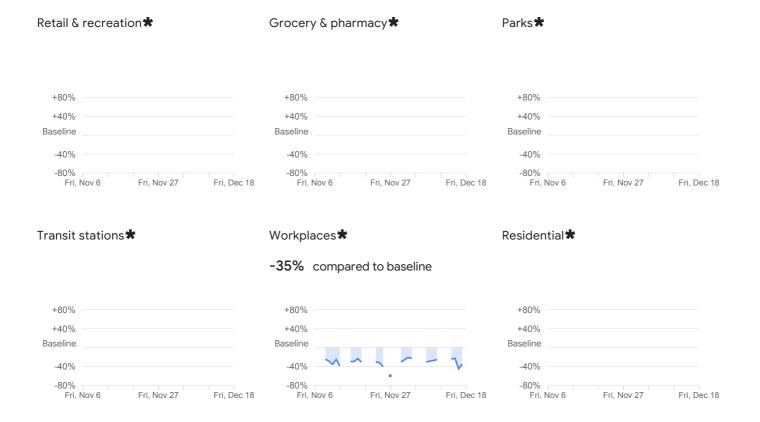
Fri, Nov 27

<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

# Covington

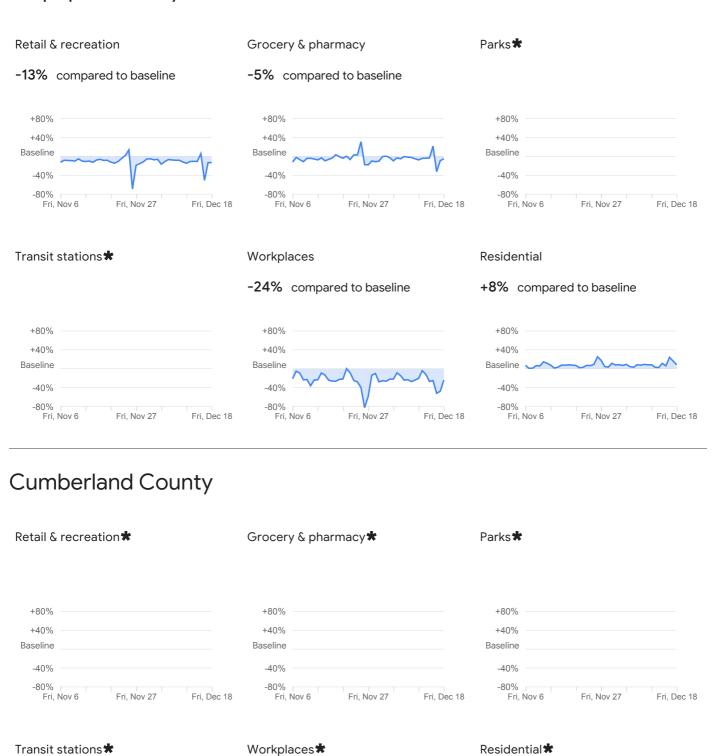


# Craig County



<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

# **Culpeper County**





+80%

+40%

-19% compared to baseline

+80%

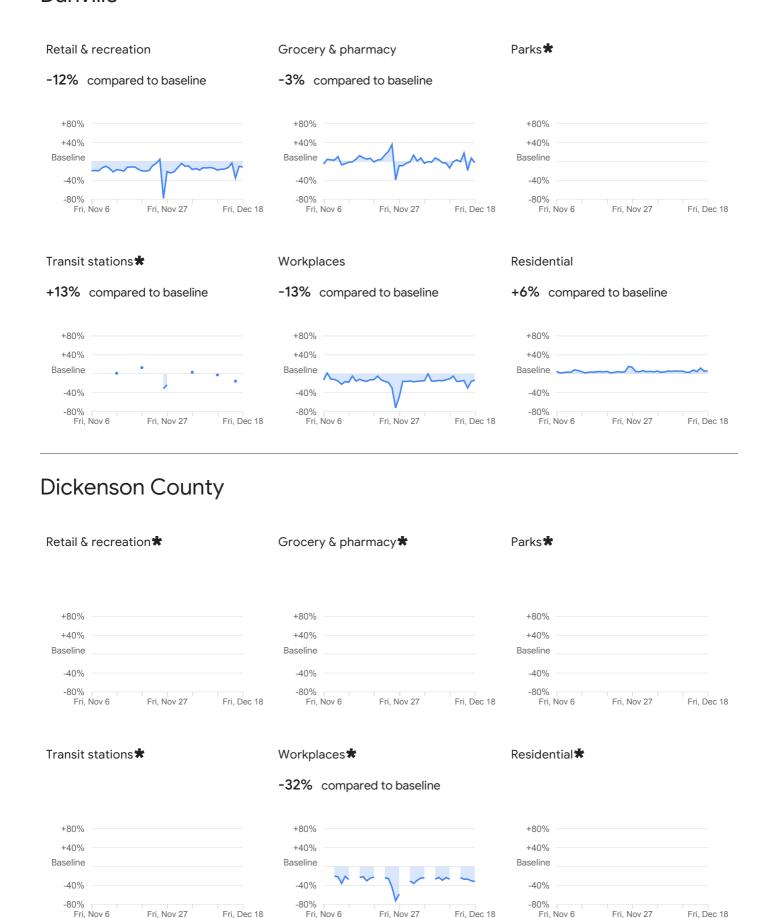
+40%

+80%

+40%

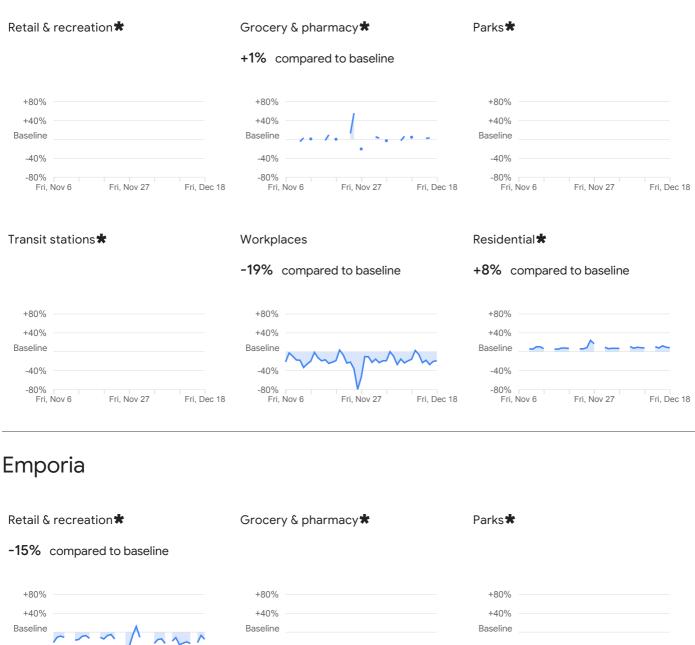
<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

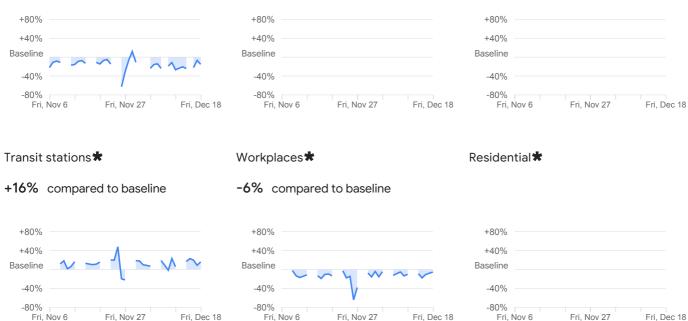
### Danville



<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

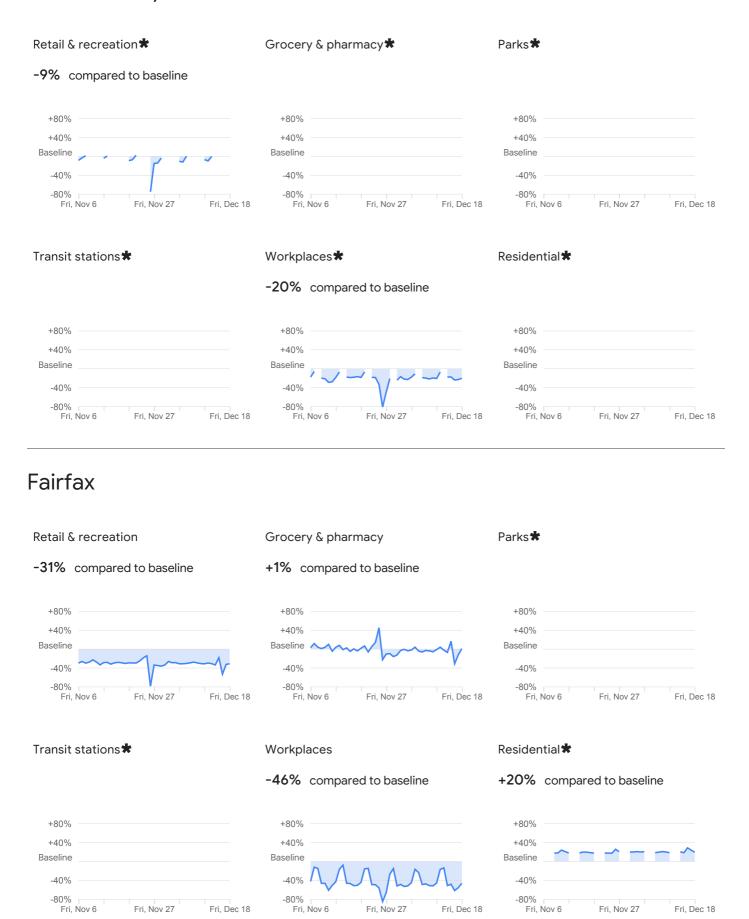
### **Dinwiddie County**





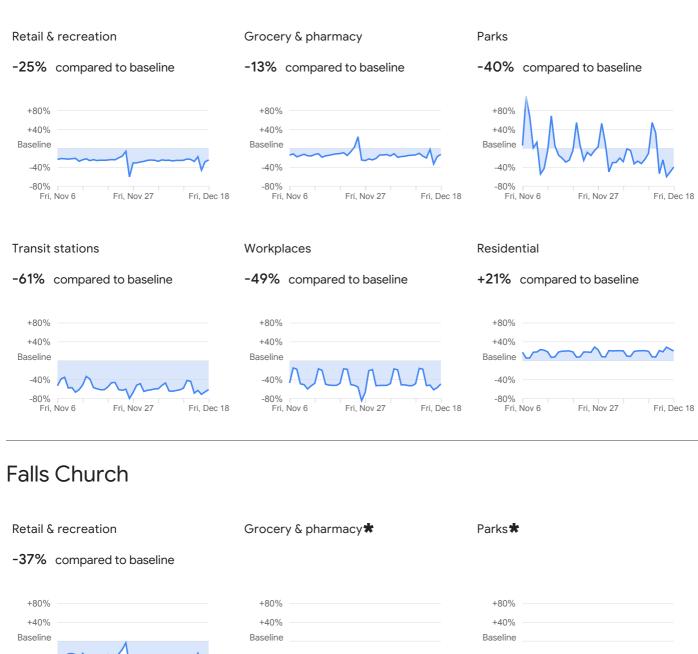
<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

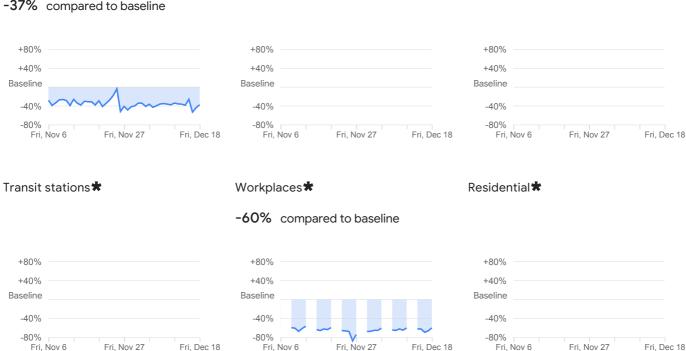
### **Essex County**



<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

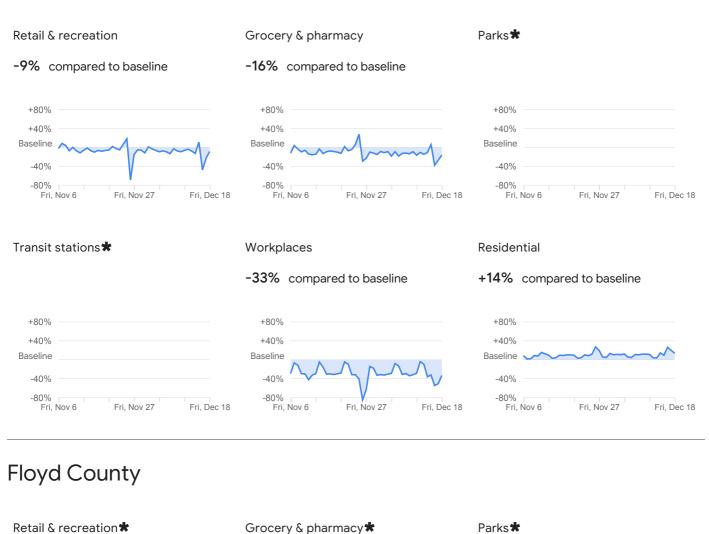
# Fairfax County

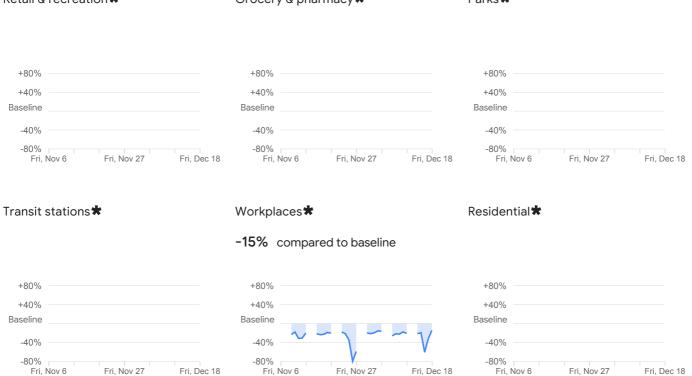




<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

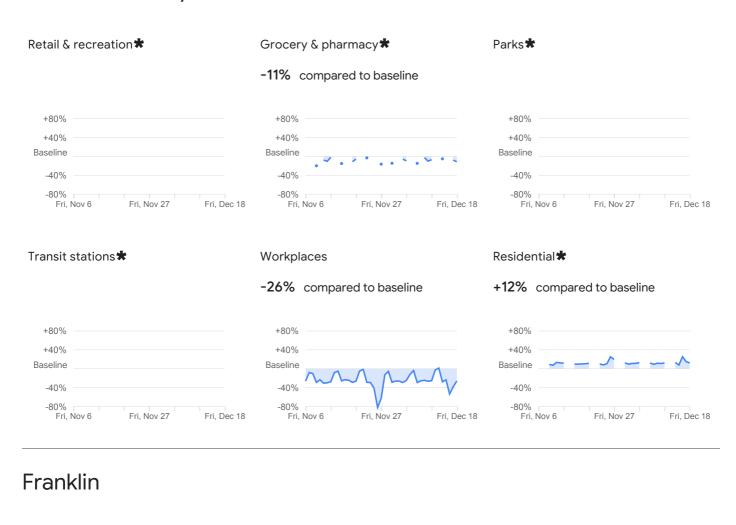
# **Fauquier County**

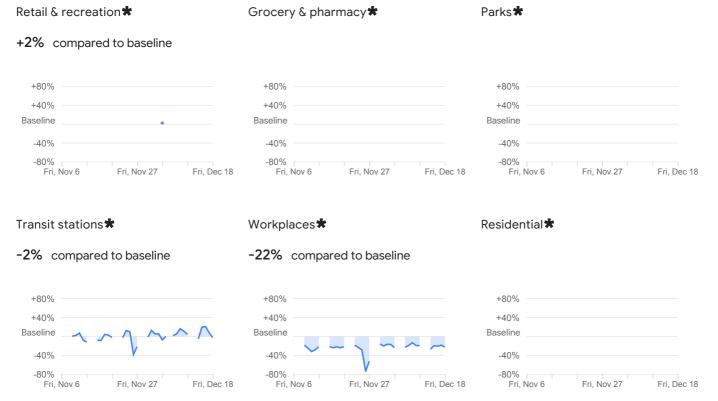




<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

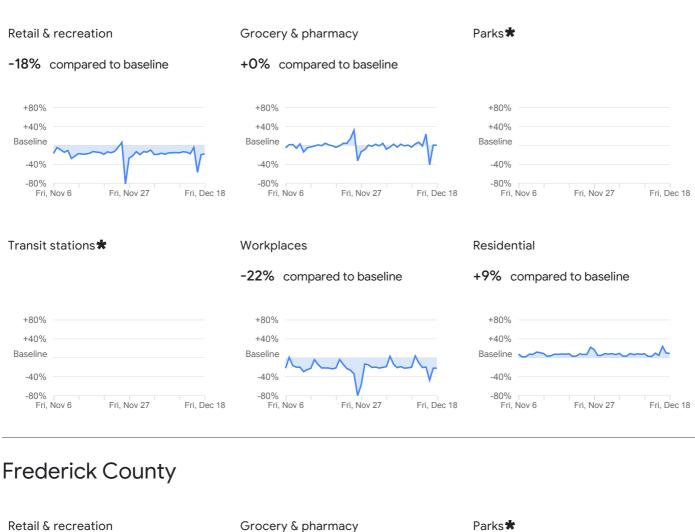
### Fluvanna County





<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

### Franklin County





<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

# Fredericksburg

+80%

+40%

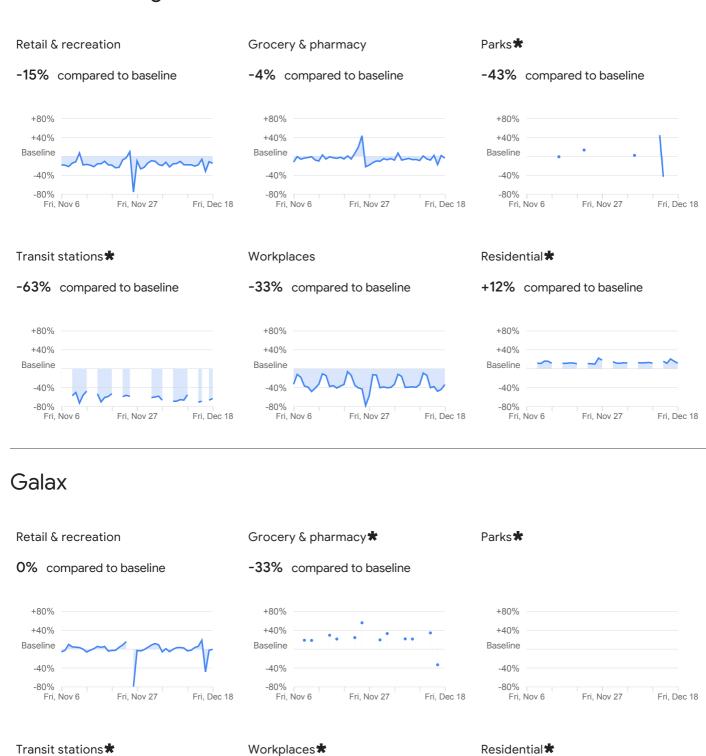
-40%

-80%

Fri, Nov 6

Fri, Nov 27

Baseline



-22% compared to baseline

Fri, Nov 27

+80%

+40%

-40%

-80%

Fri. Dec 18

Fri, Nov 6

Fri, Nov 27

Fri, Dec 18

Baseline

+80%

+40%

-40%

-80%

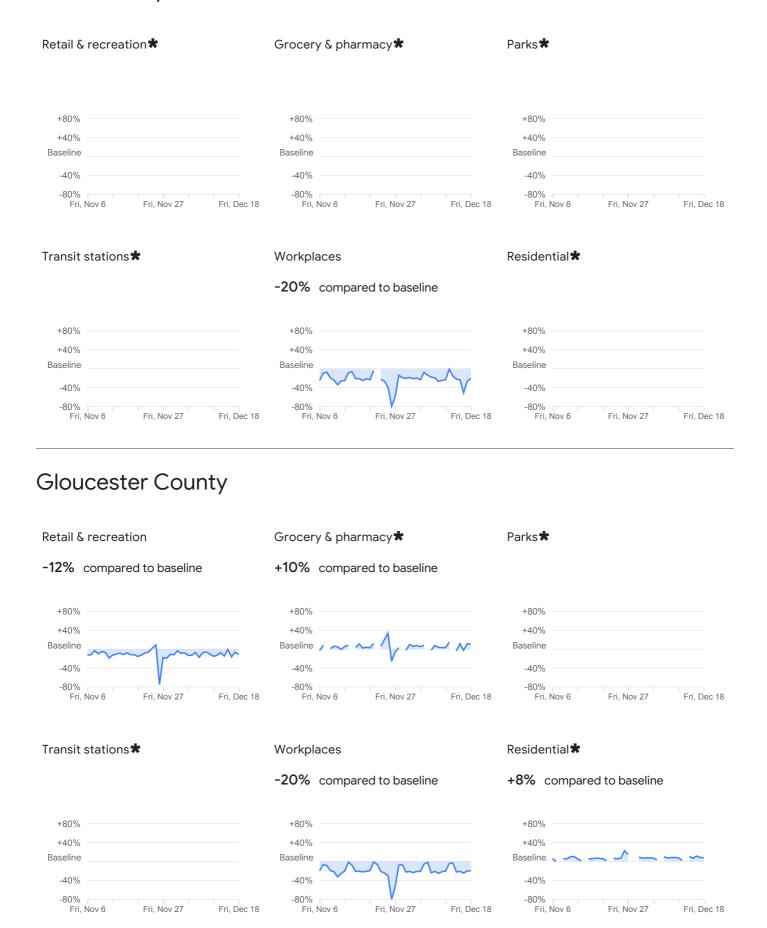
Fri. Nov 6

Baseline

Fri, Dec 18

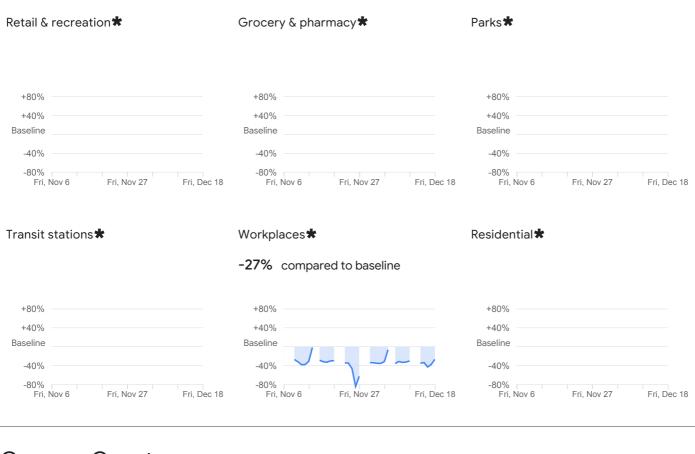
<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

### Giles County

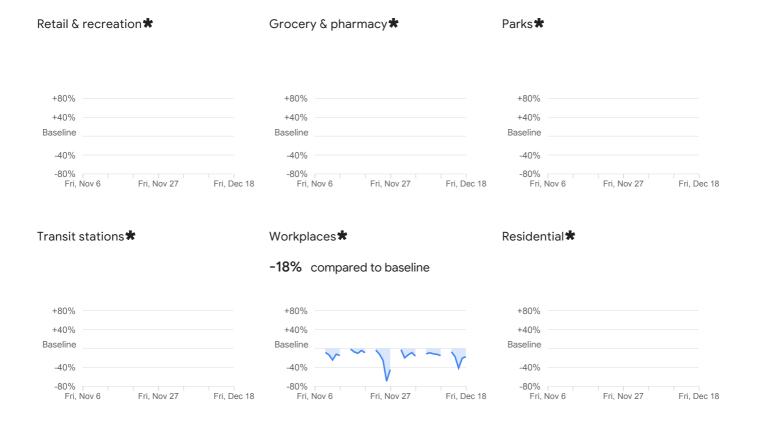


<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

# **Goochland County**

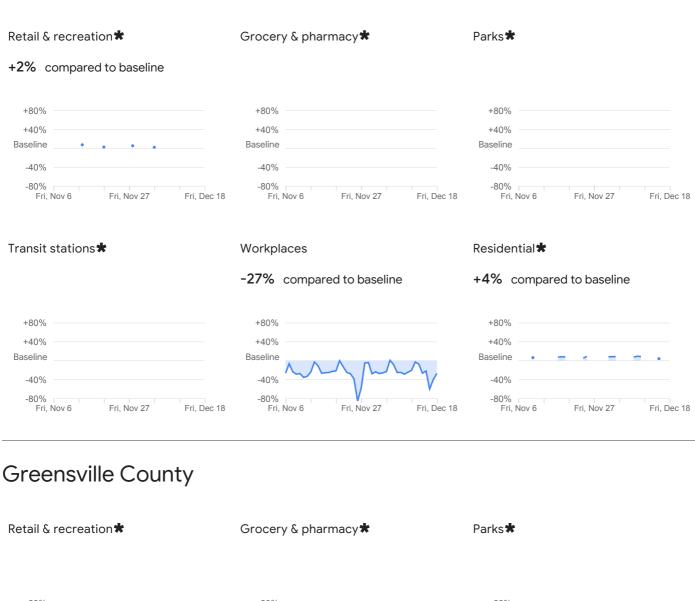


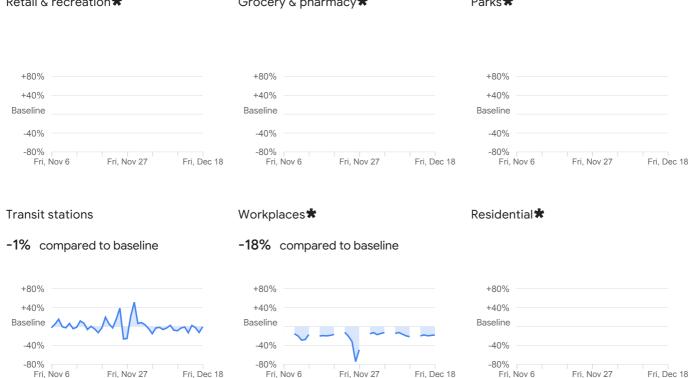
# **Grayson County**



<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

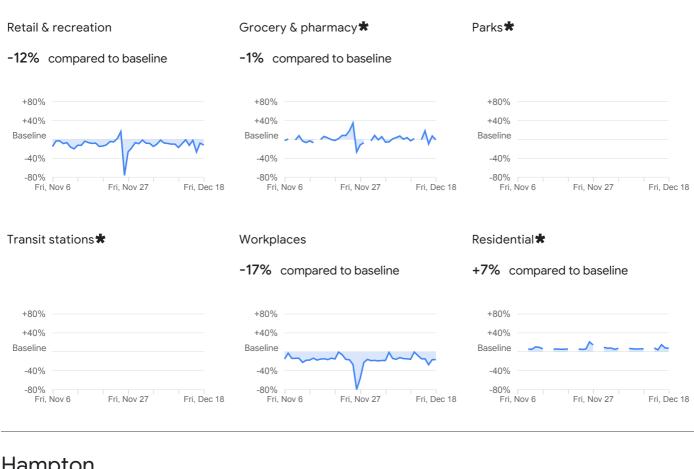
### **Greene County**



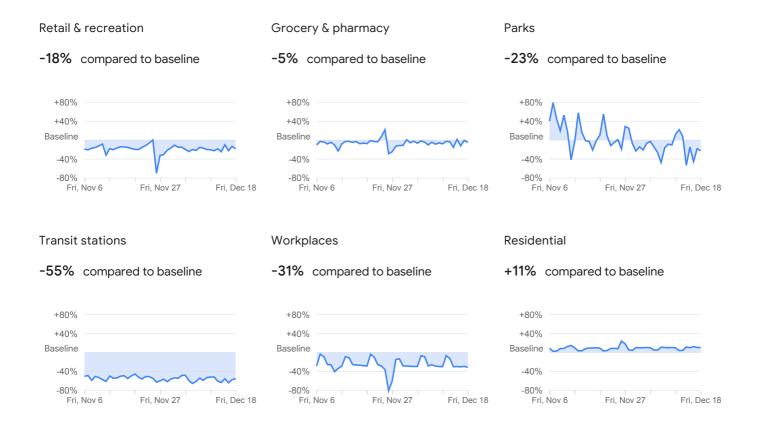


<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

### Halifax County

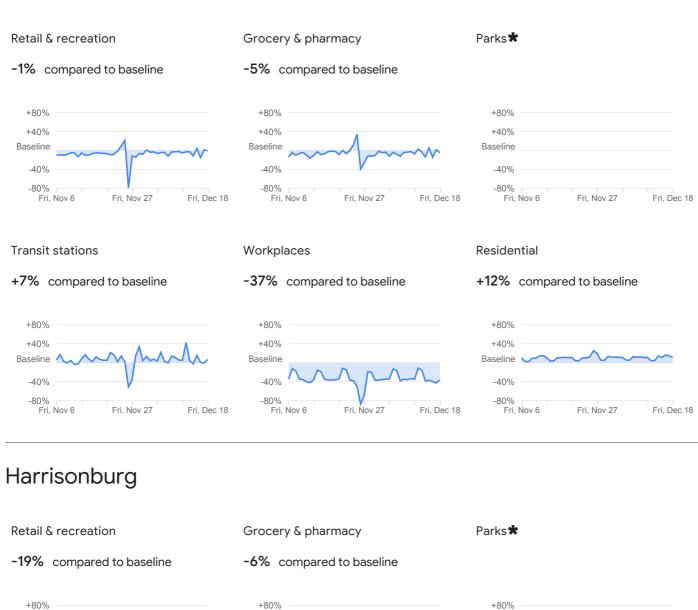


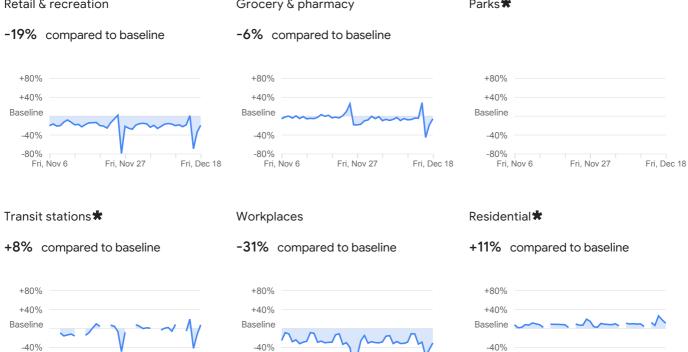
# Hampton



<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

### **Hanover County**





Fri, Nov 27

-80%

Fri. Dec 18

Fri, Nov 6

Fri, Nov 27

Fri, Dec 18

Fri, Dec 18

-80%

Fri, Nov 6

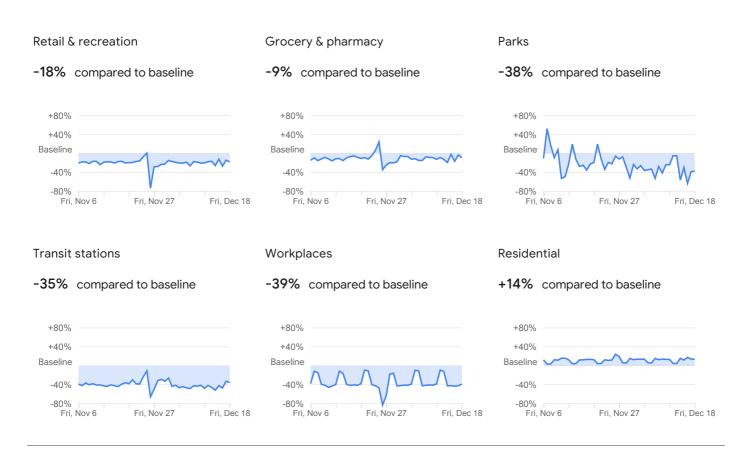
-80%

Fri. Nov 6

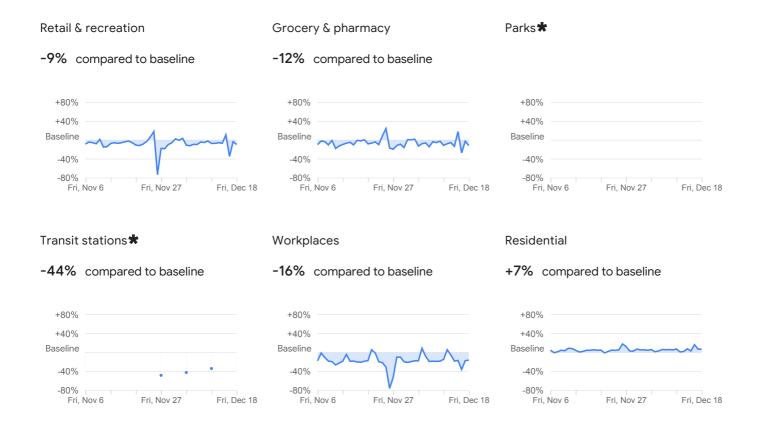
Fri, Nov 27

<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

# Henrico County

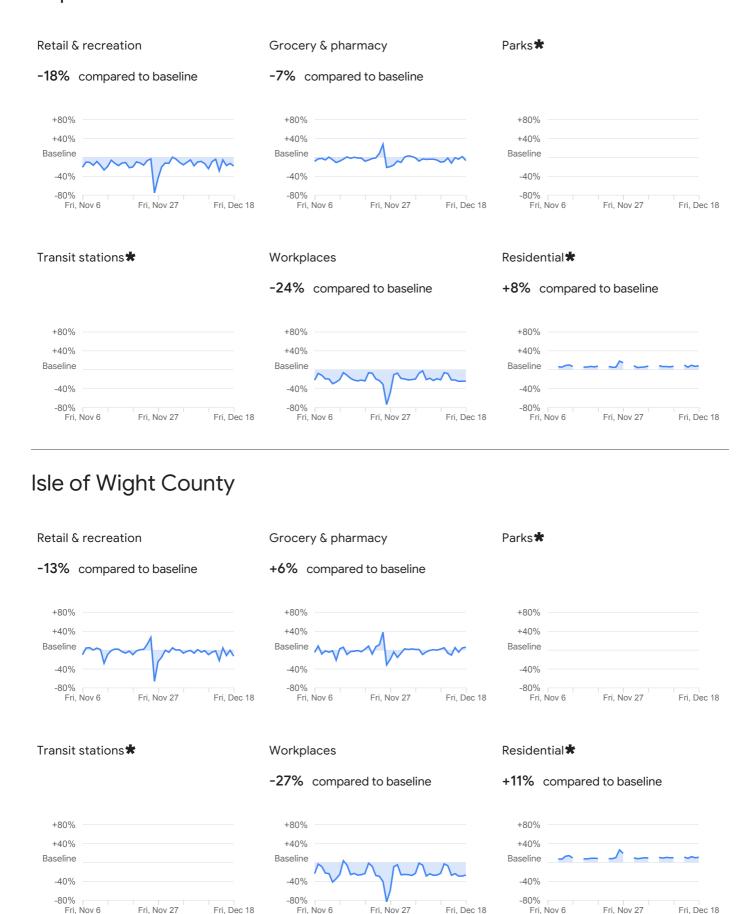


# **Henry County**



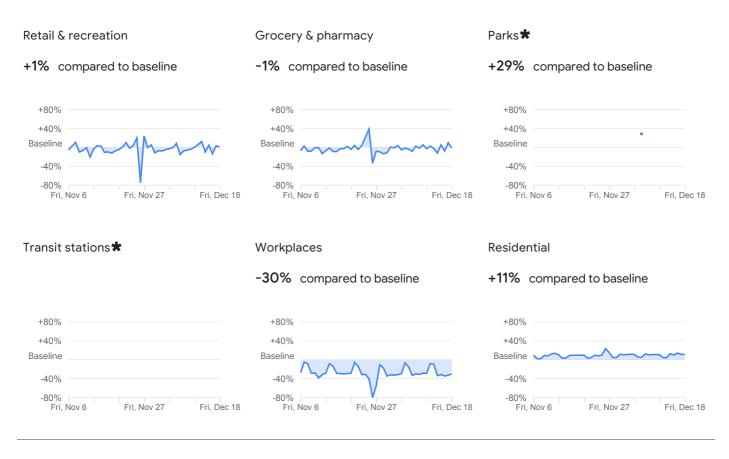
<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

### Hopewell

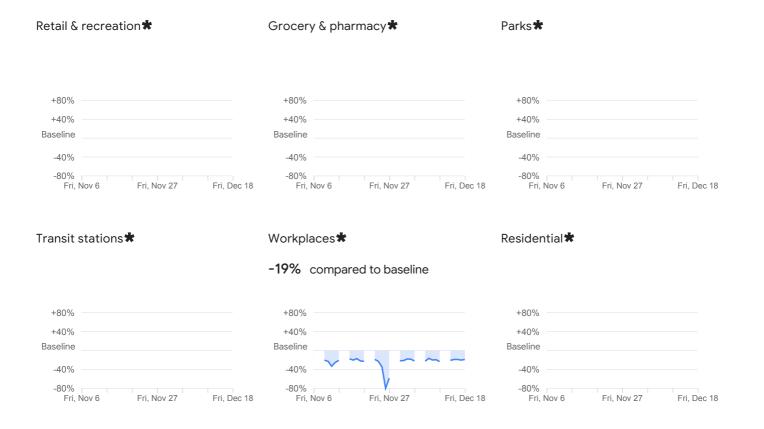


<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

# James City County

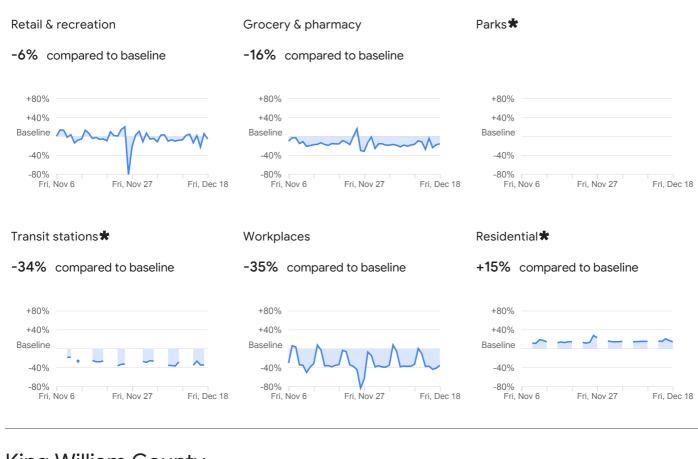


# King and Queen County

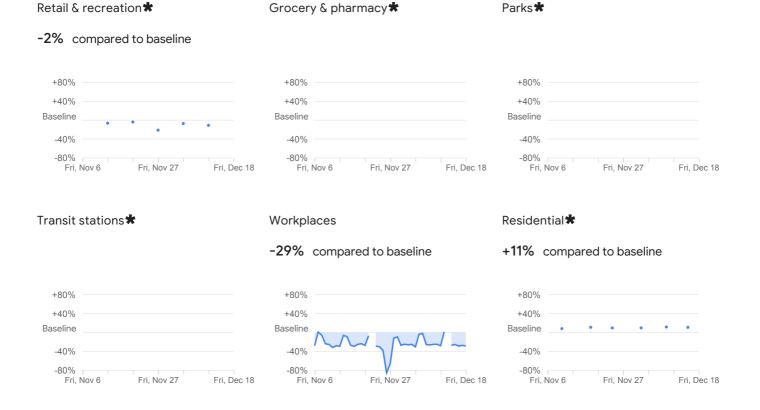


<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

### King George County



# King William County



<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

### **Lancaster County**



-25% compared to baseline

Fri, Nov 27

+80%

+40%

-40%

-80%

Fri, Nov 6

Baseline

+5% compared to baseline

Fri, Nov 27

Fri, Dec 18

+80%

+40%

-40%

-80%

Fri, Nov 6

Fri, Dec 18

Baseline

Fri, Dec 18

+80%

+40%

-40%

-80%

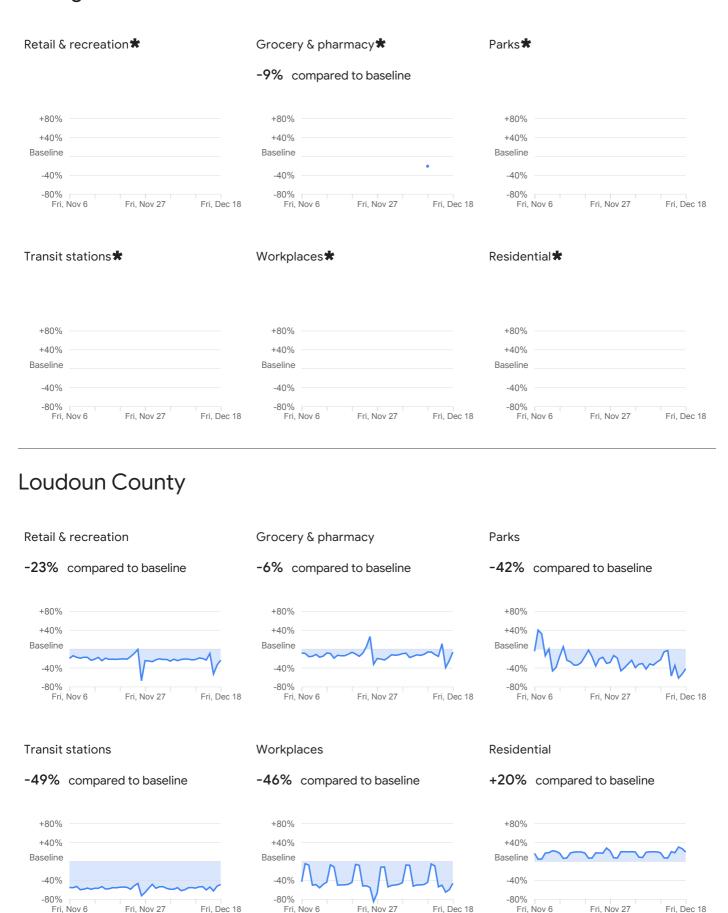
Fri, Nov 6

Fri, Nov 27

Baseline

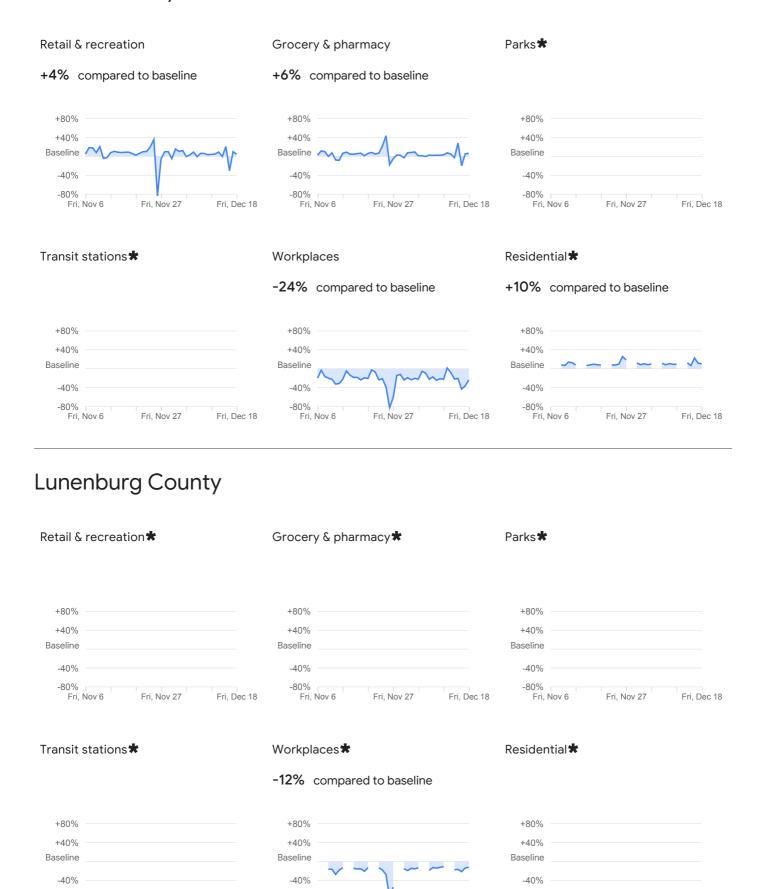
<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

#### Lexington



<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

#### Louisa County



Fri, Dec 18

-80%

Fri, Nov 6

Fri, Nov 27

-80%

Fri, Nov 6

Fri, Nov 27

Fri, Dec 18

Fri, Dec 18

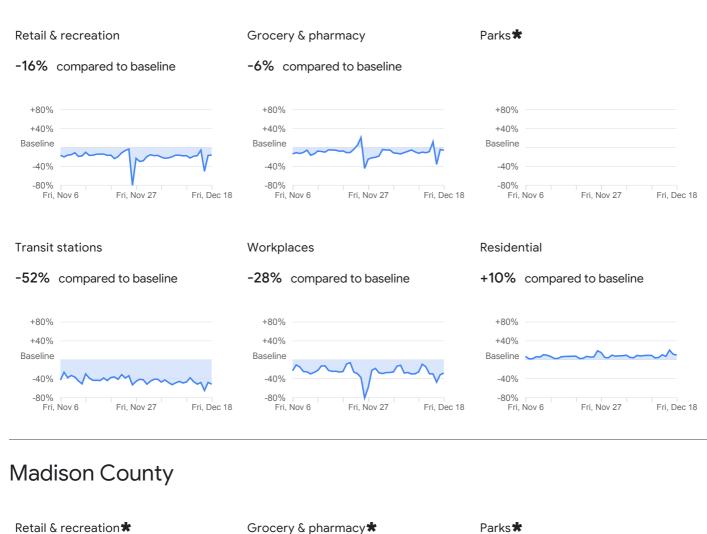
-80%

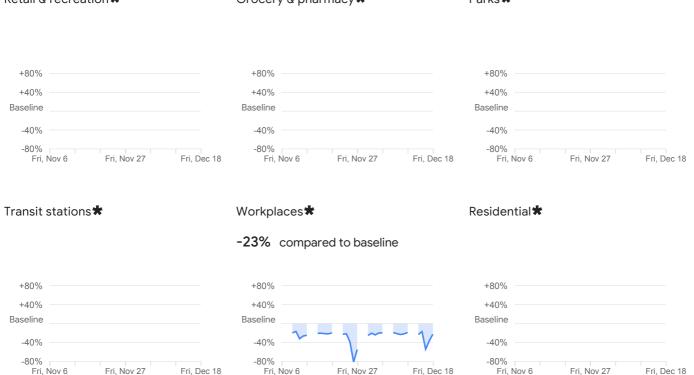
Fri, Nov 6

Fri, Nov 27

<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

#### Lynchburg





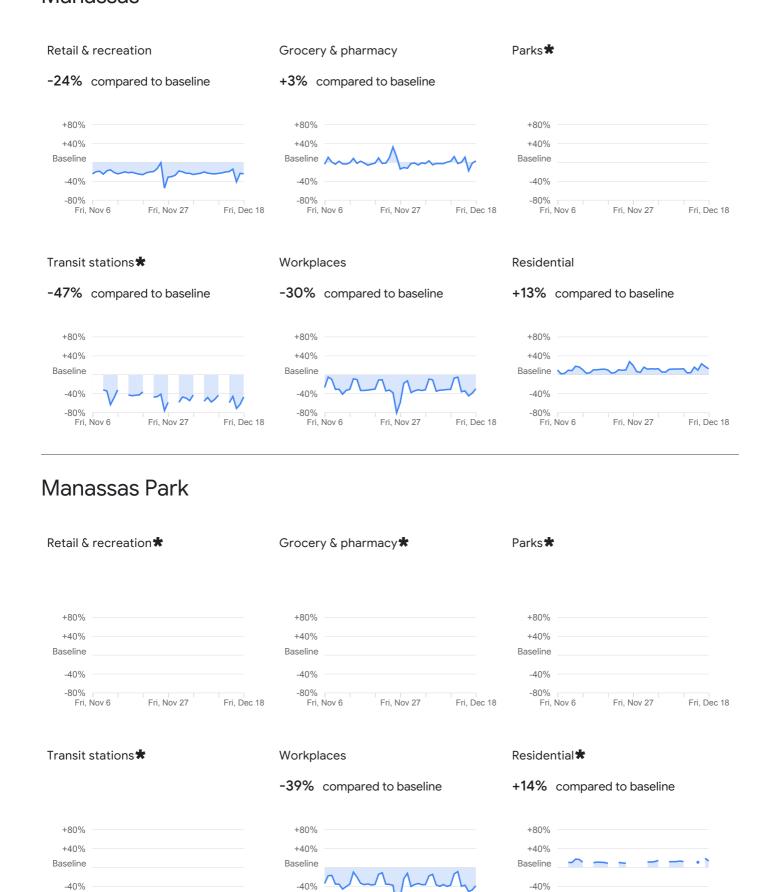
<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

#### Manassas

-80%

Fri, Nov 6

Fri, Nov 27



Fri, Dec 18

-80%

Fri, Nov 6

Fri, Nov 27

-80%

Fri. Dec 18

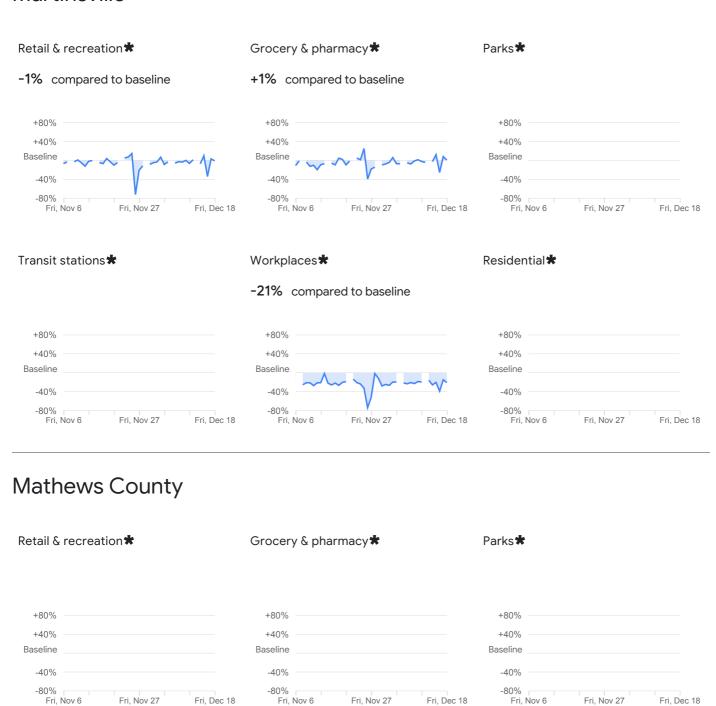
Fri, Nov 6

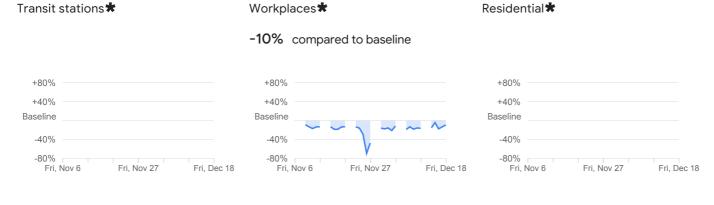
Fri, Nov 27

Fri, Dec 18

<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

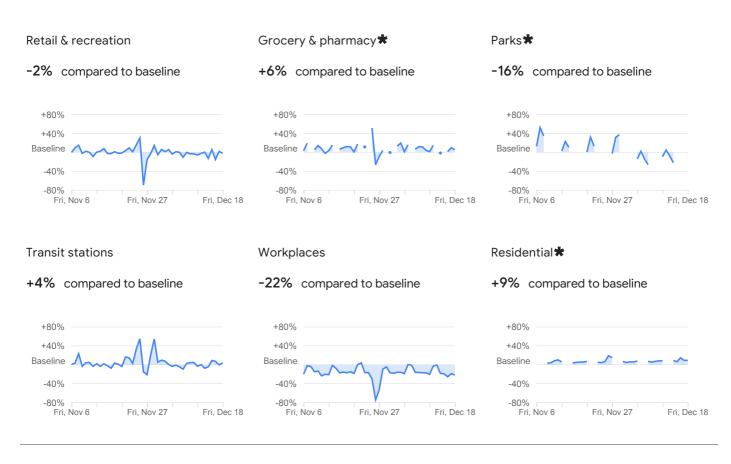
#### Martinsville



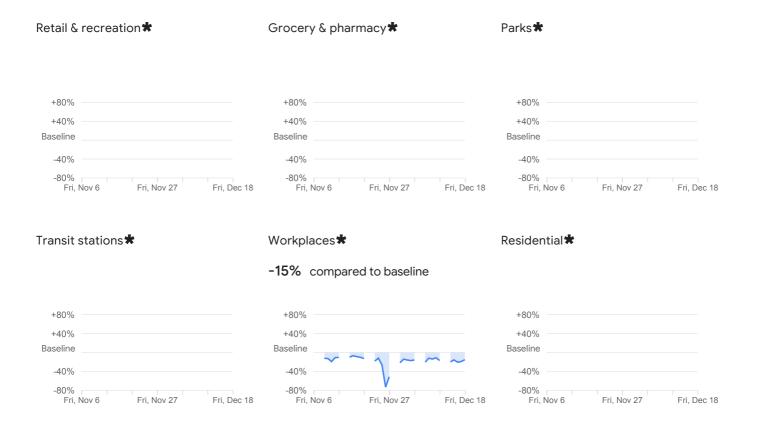


<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

#### Mecklenburg County

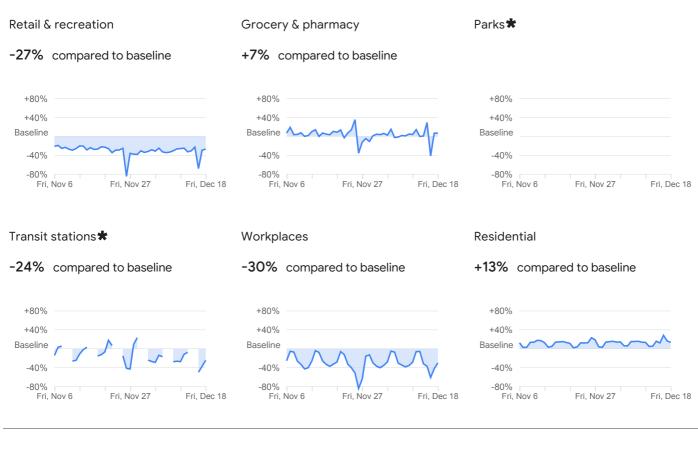


# Middlesex County

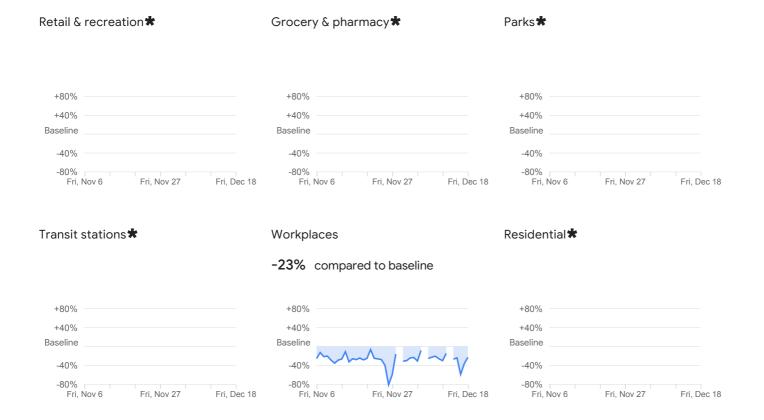


<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

#### **Montgomery County**

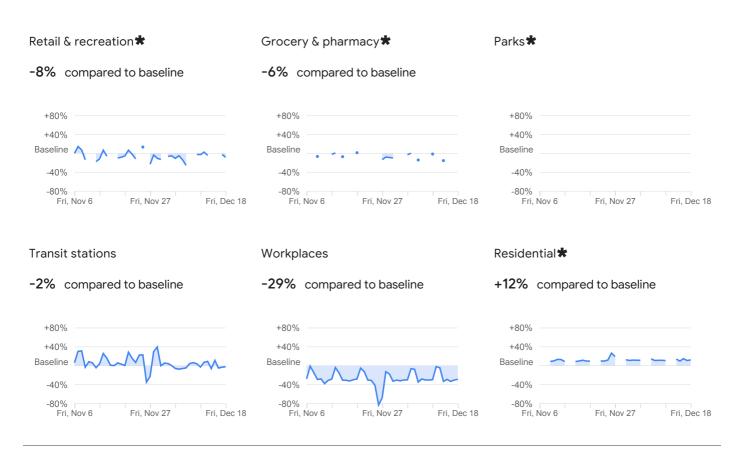


## **Nelson County**

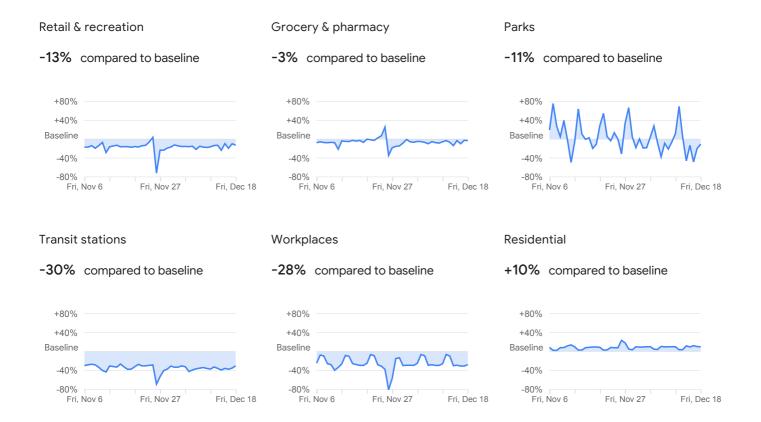


<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

#### **New Kent County**

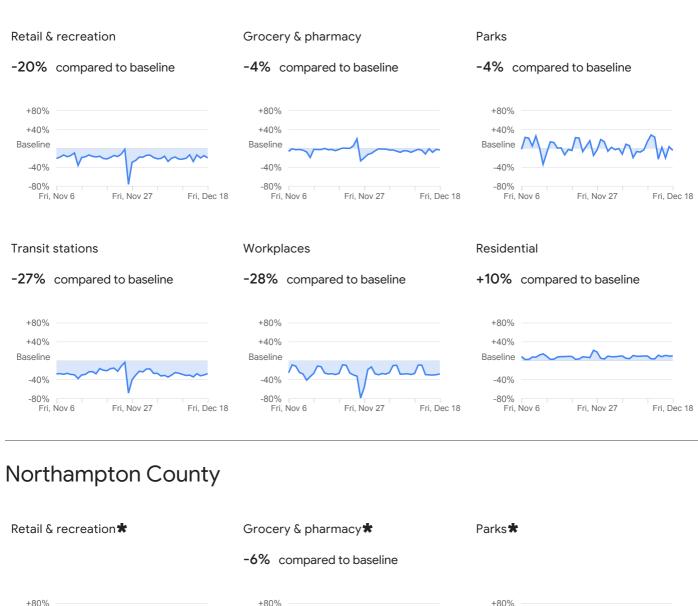


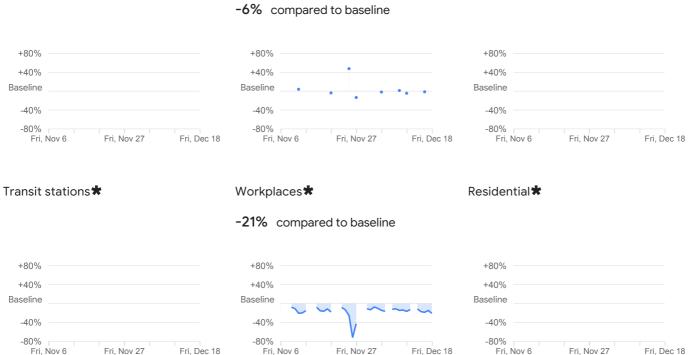
# **Newport News**



<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

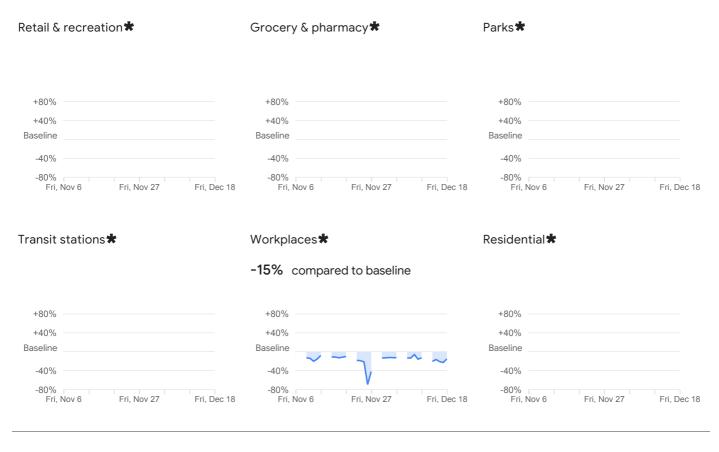
#### Norfolk



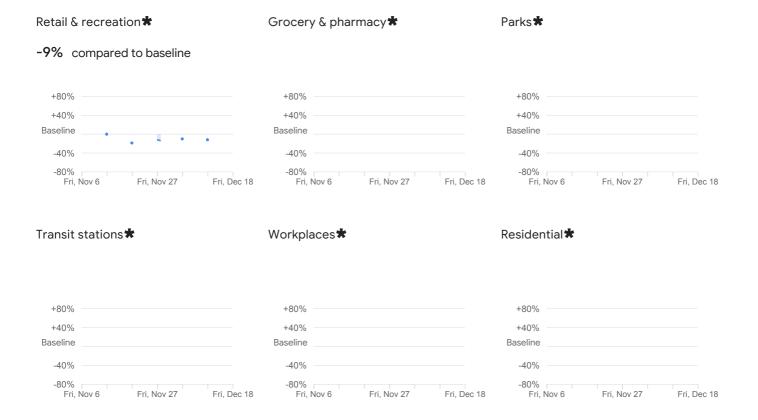


<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

## Northumberland County

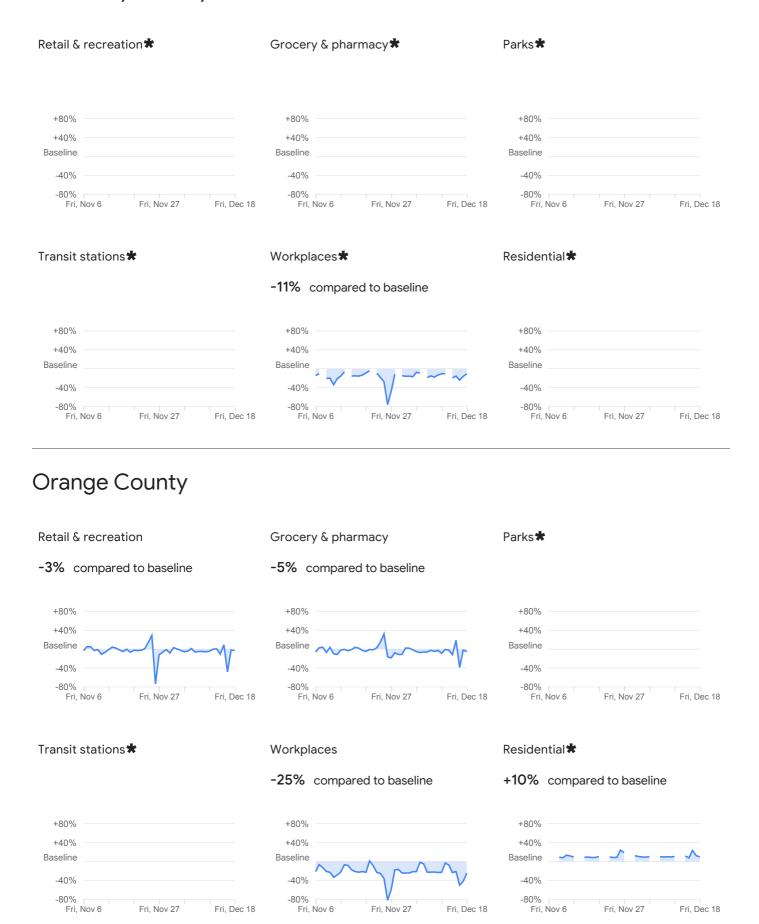


#### Norton



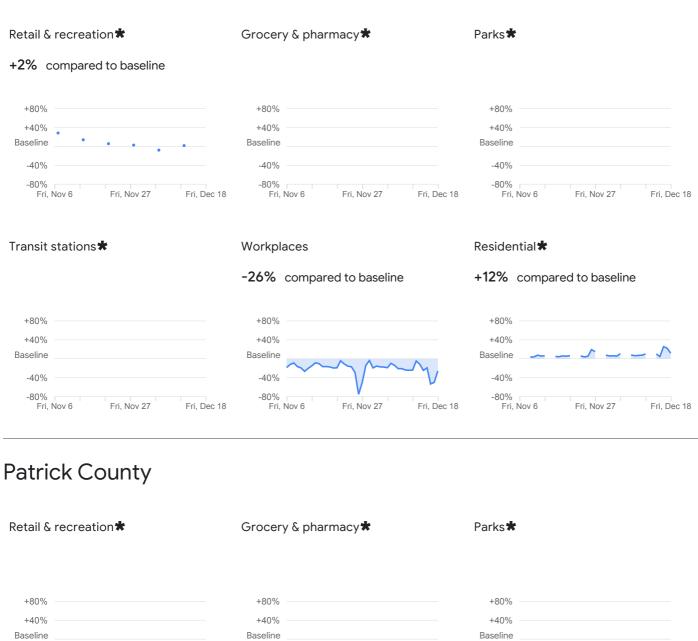
<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

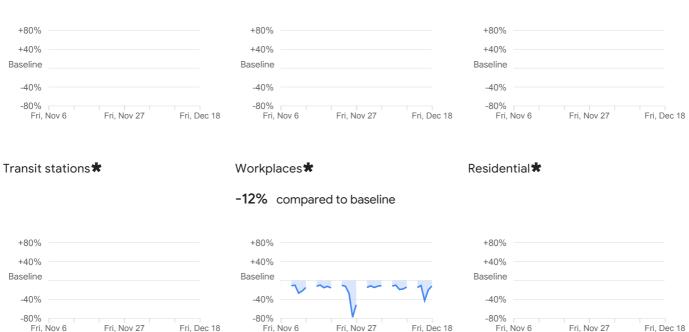
#### **Nottoway County**



<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

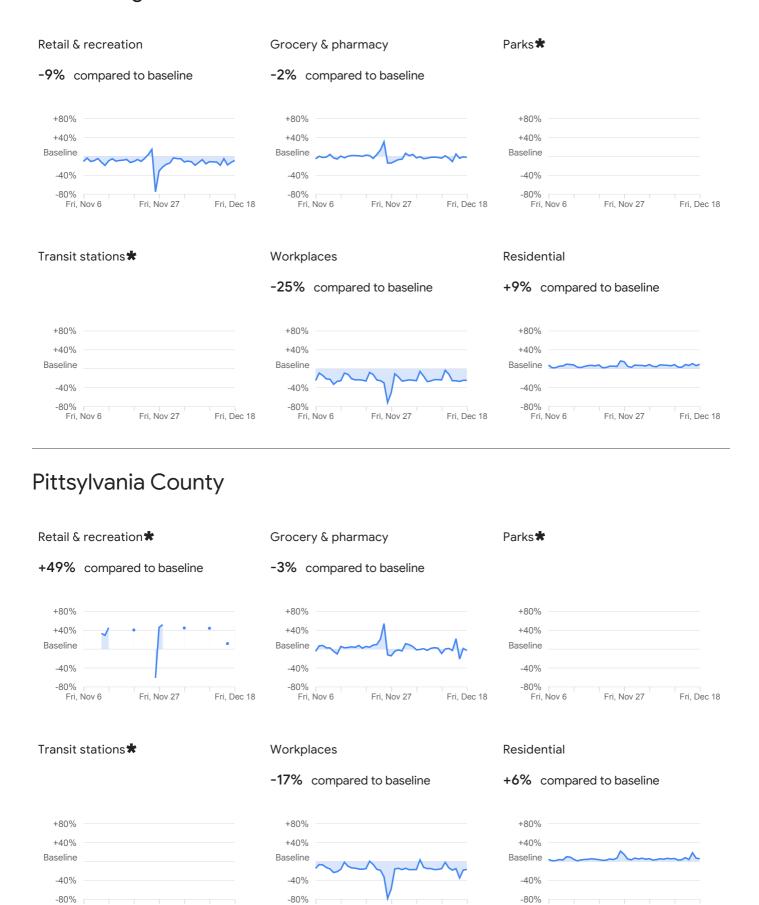
## Page County





<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

#### Petersburg



<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

Fri, Nov 6

Fri, Nov 27

Fri. Dec 18

Fri, Nov 6

Fri, Nov 27

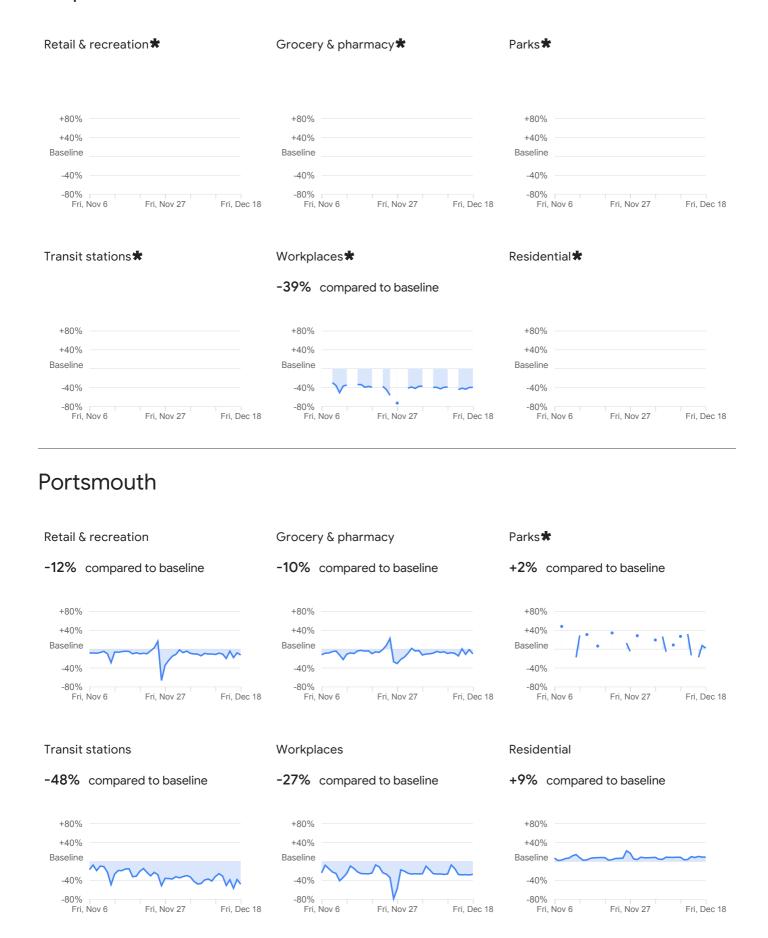
Fri, Dec 18

Fri, Dec 18

Fri, Nov 6

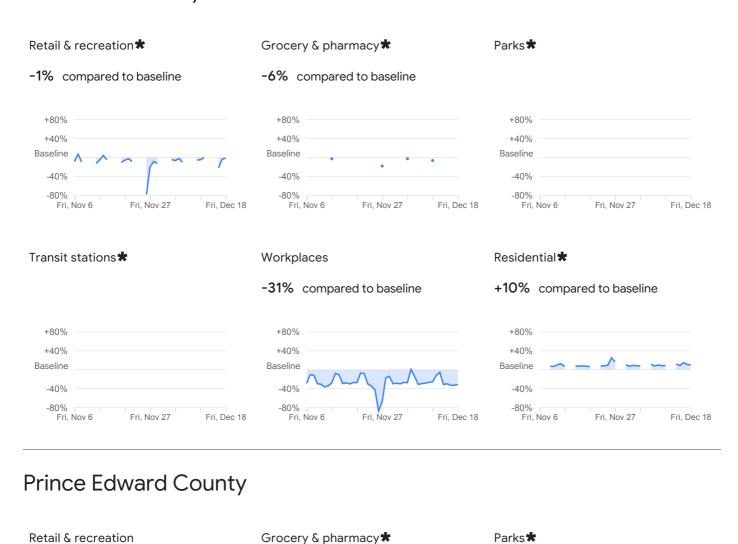
Fri, Nov 27

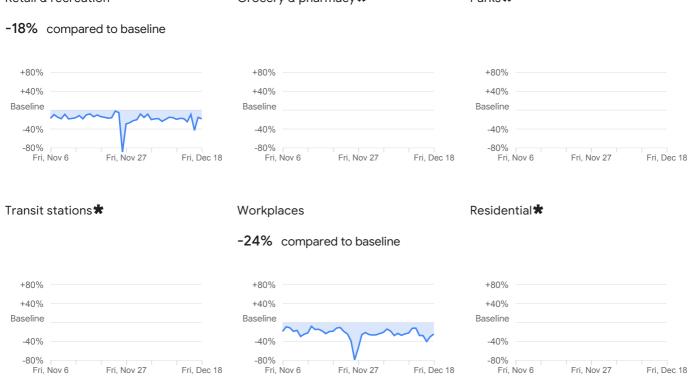
#### Poquoson



<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

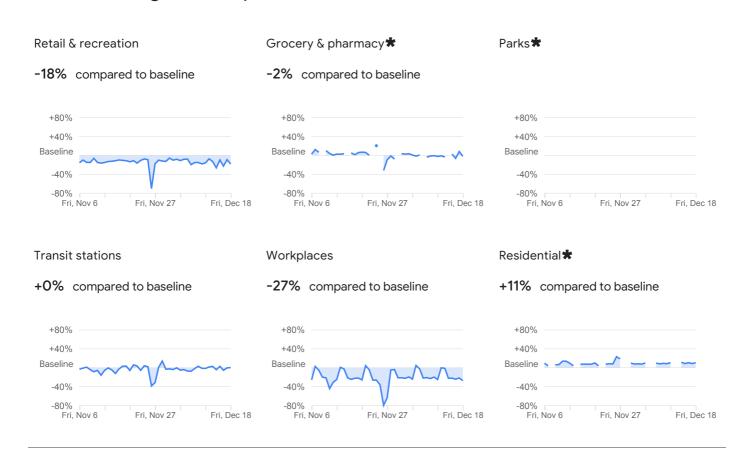
#### **Powhatan County**



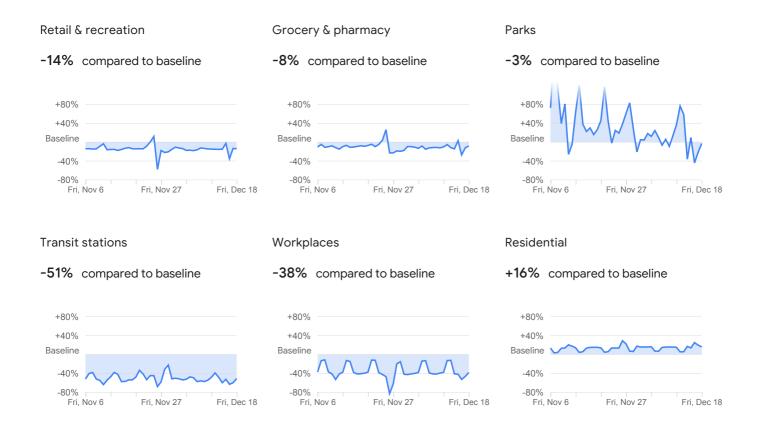


<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

#### Prince George County

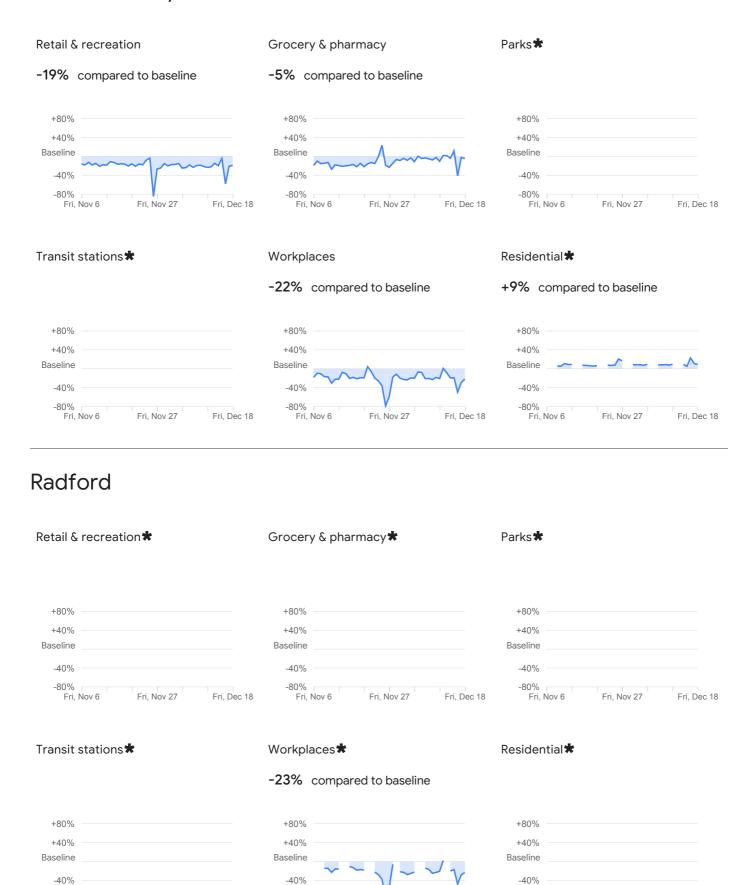


## Prince William County



<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

## Pulaski County



Fri, Dec 18

-80%

Fri, Nov 6

Fri, Nov 27

-80%

Fri, Nov 6

Fri, Nov 27

Fri, Dec 18

Fri, Dec 18

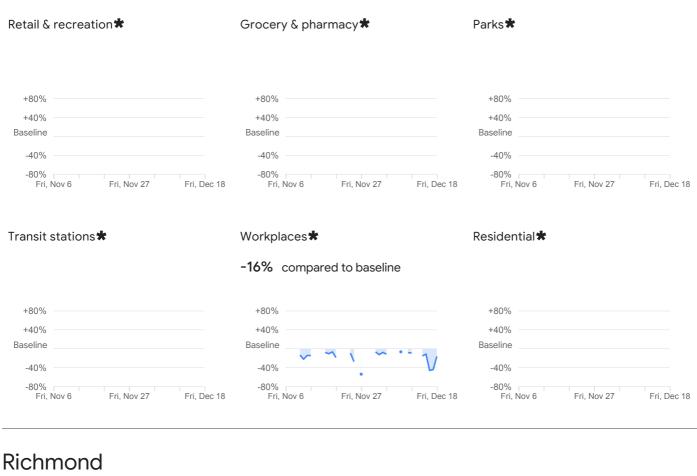
-80%

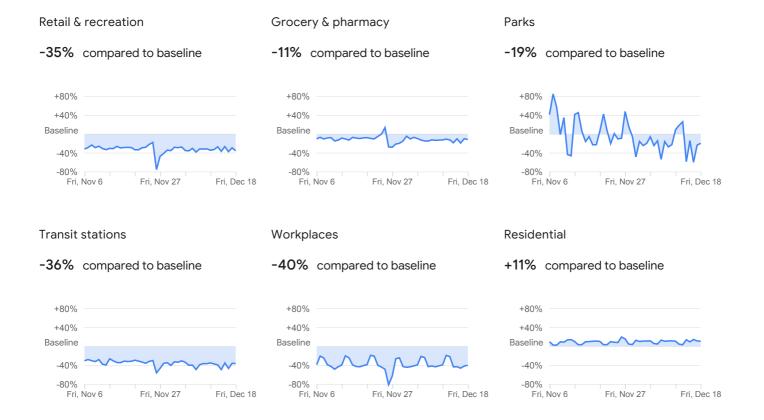
Fri, Nov 6

Fri, Nov 27

<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

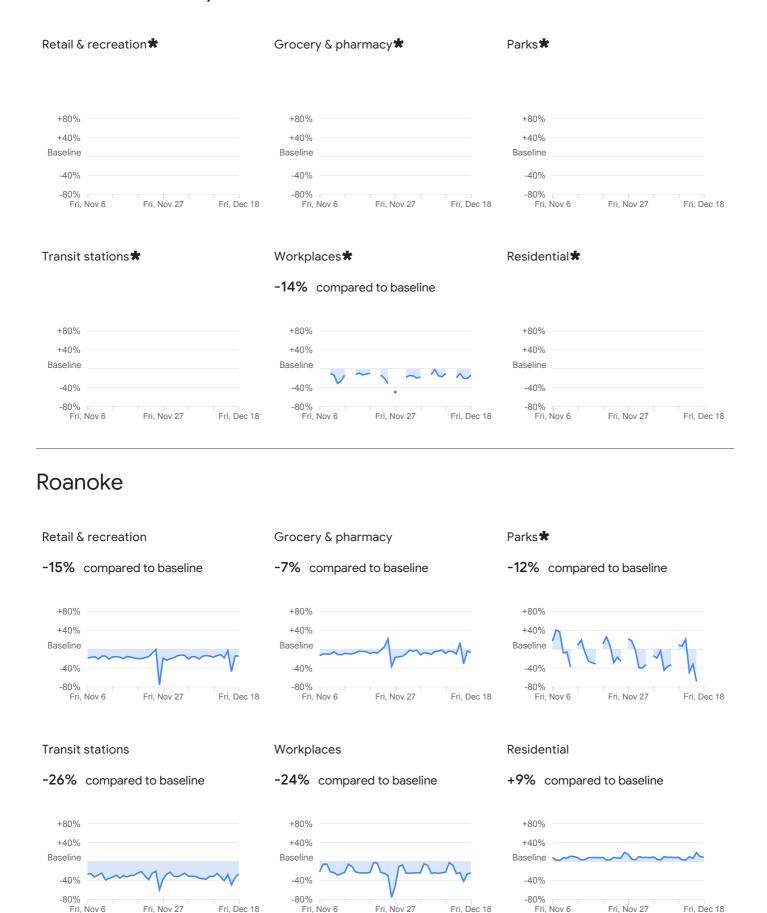
## Rappahannock County





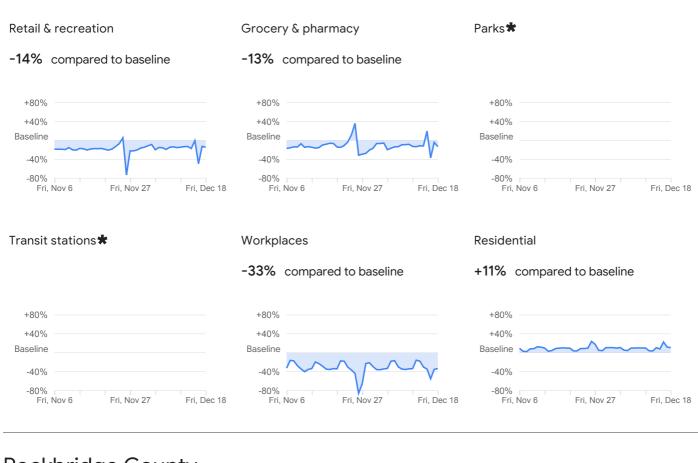
<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

#### **Richmond County**

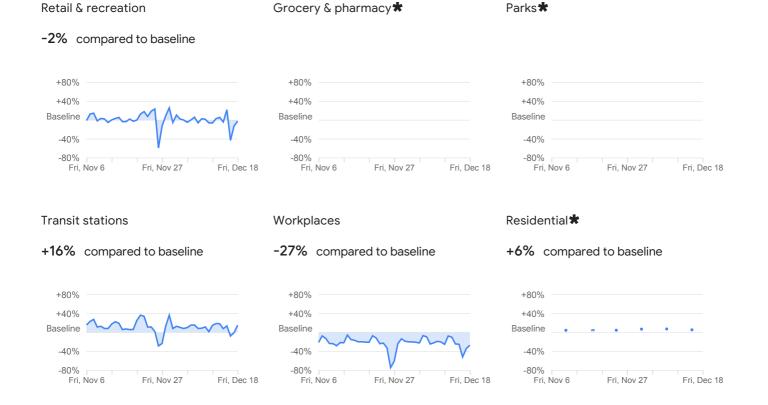


<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

#### Roanoke County

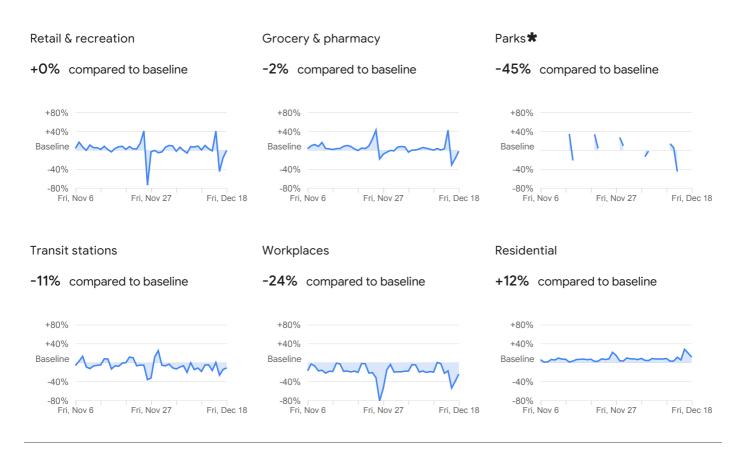


# Rockbridge County

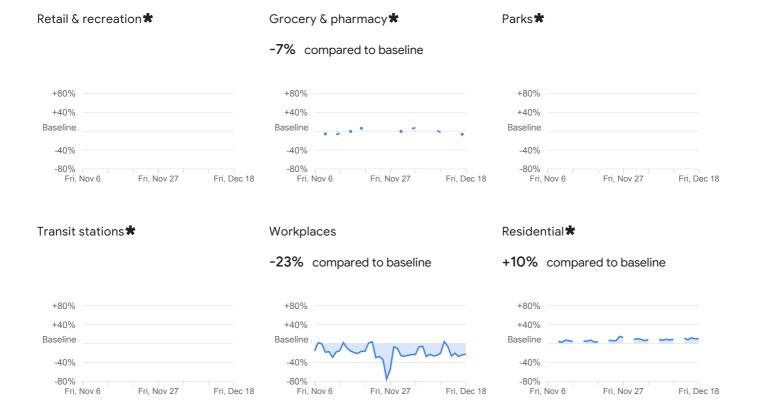


<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

#### **Rockingham County**

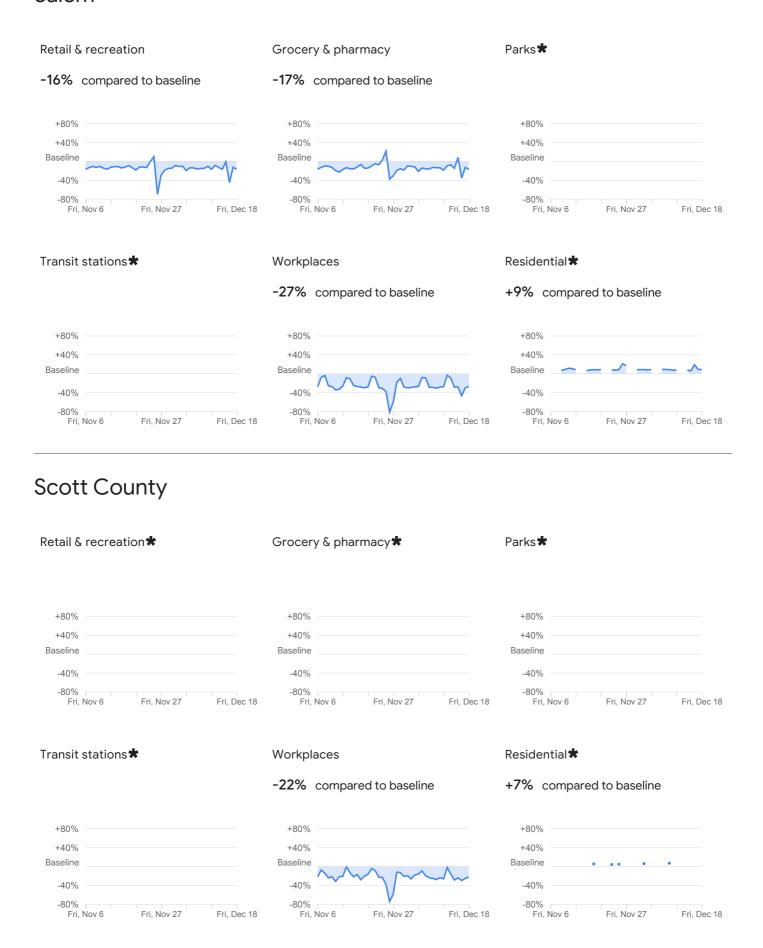


## **Russell County**



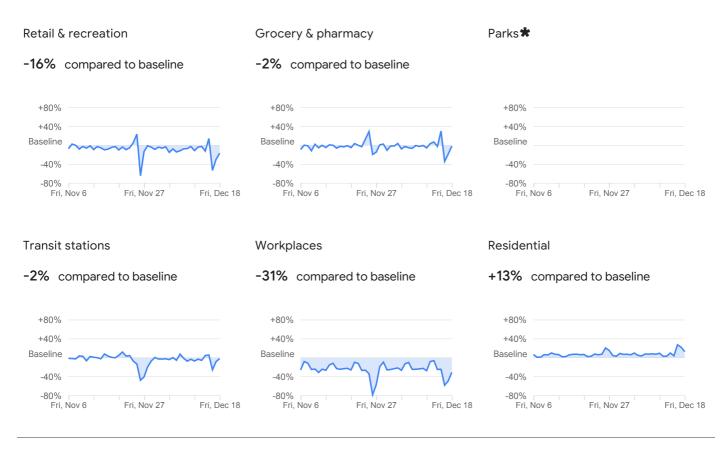
<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

#### Salem

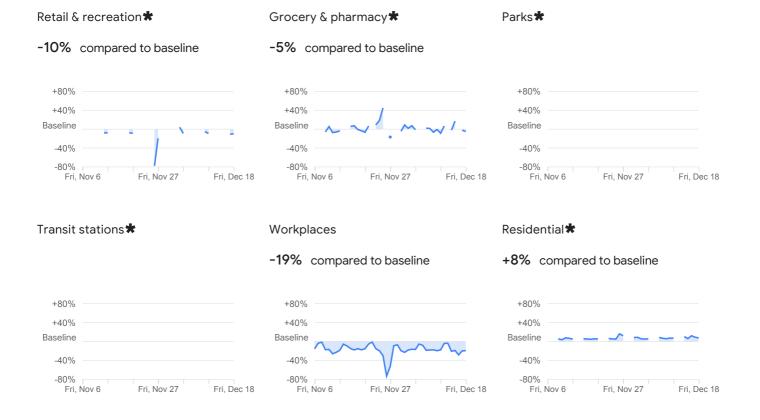


<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

#### Shenandoah County

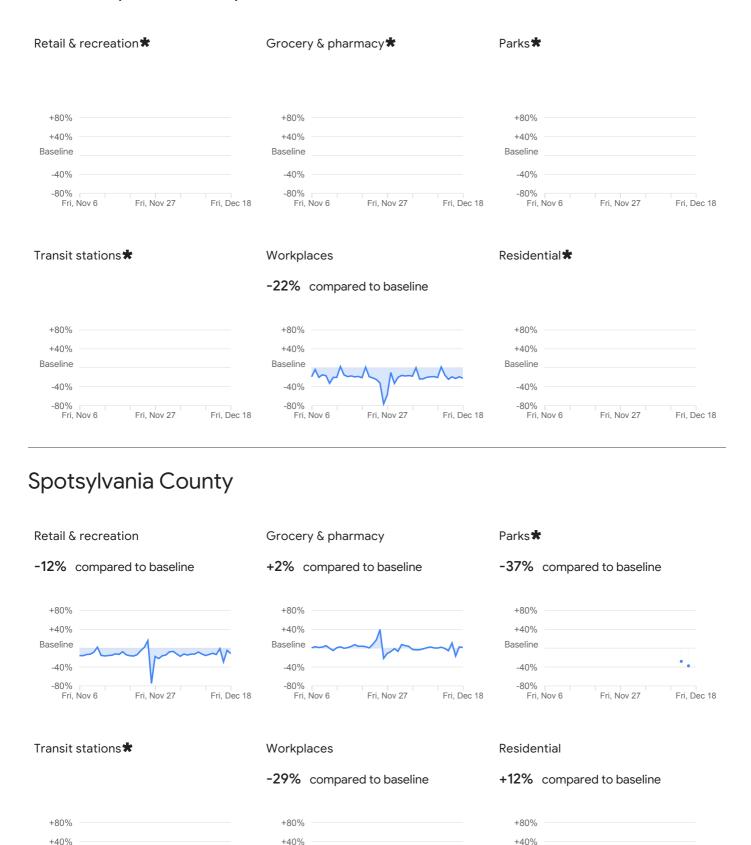


## **Smyth County**



<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

#### Southampton County



+40% Baseline

-40%

-80%

Fri. Dec 18

Fri, Nov 6

Fri, Nov 27

Fri, Dec 18

Fri, Dec 18

Baseline

-40%

-80%

Fri, Nov 6

Fri, Nov 27

+40%

-40%

-80%

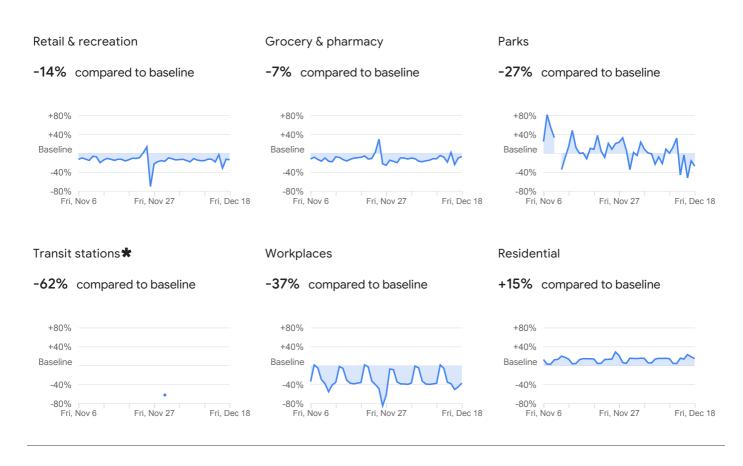
Fri, Nov 6

Fri, Nov 27

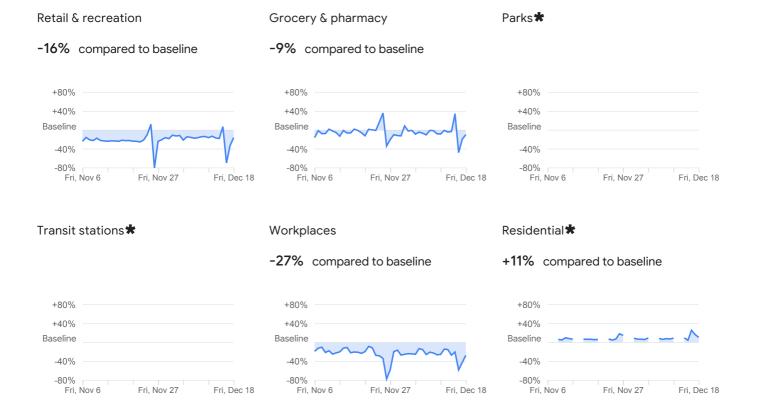
Baseline

<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

#### Stafford County



#### Staunton

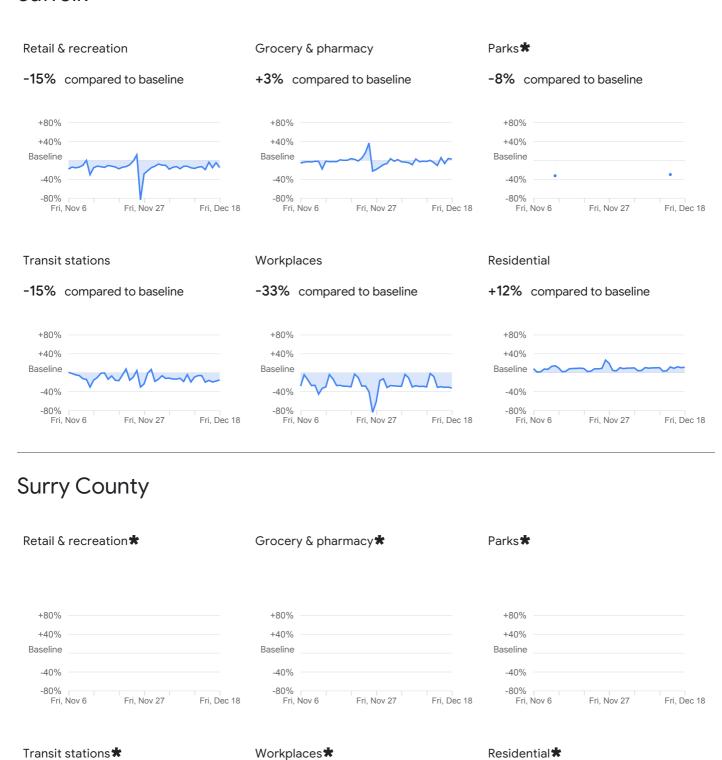


<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

#### Suffolk

+80%

+40%





+80%

+40%

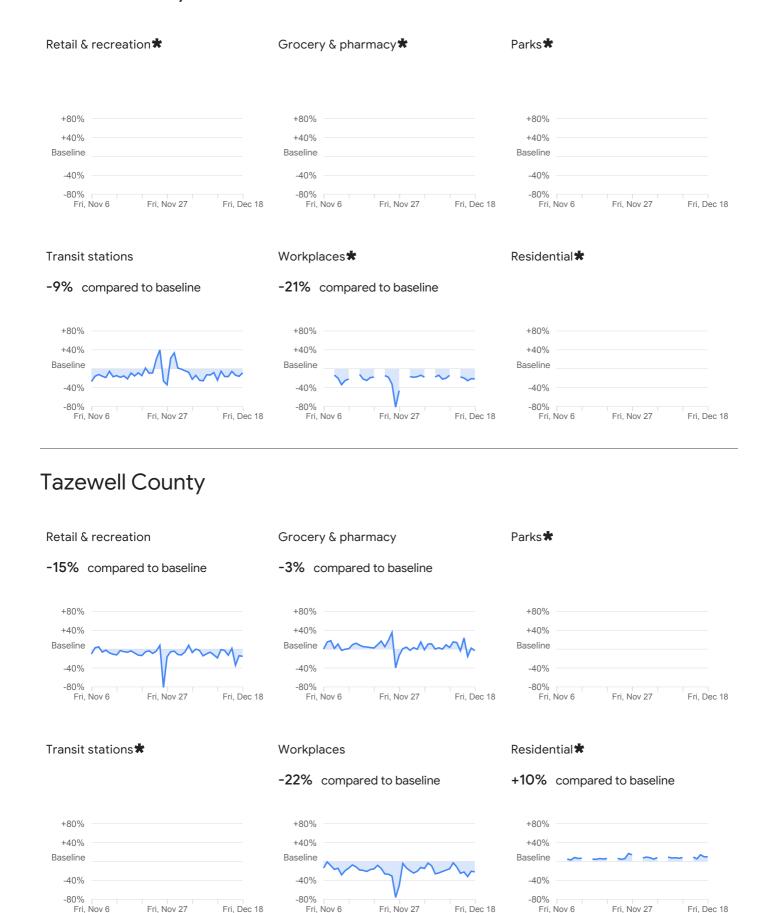
-28% compared to baseline

+80%

+40%

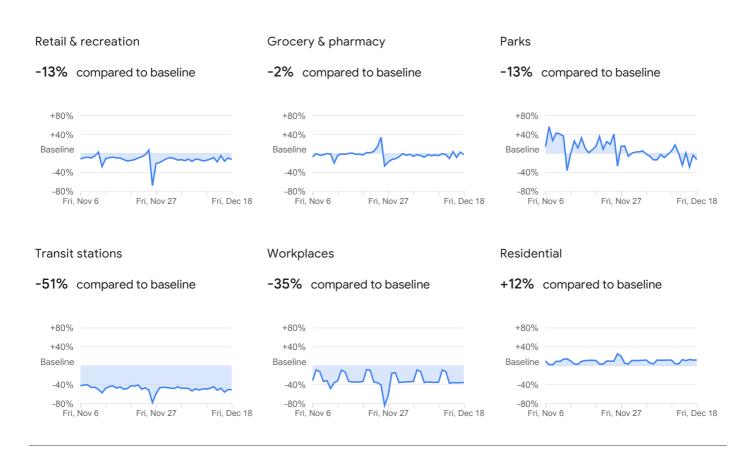
<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

#### Sussex County

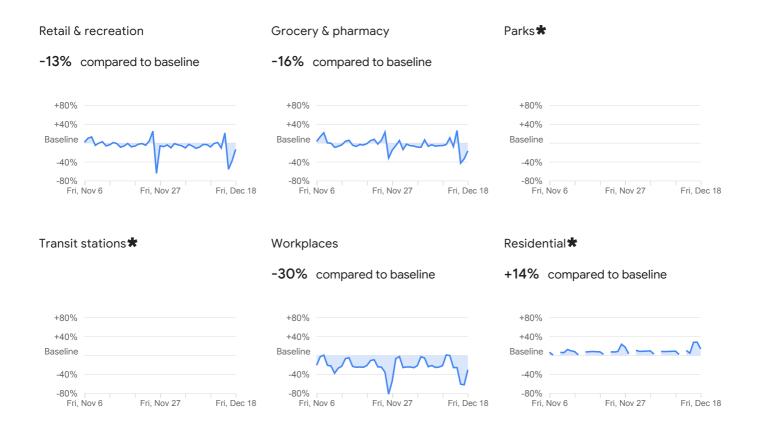


<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

#### Virginia Beach

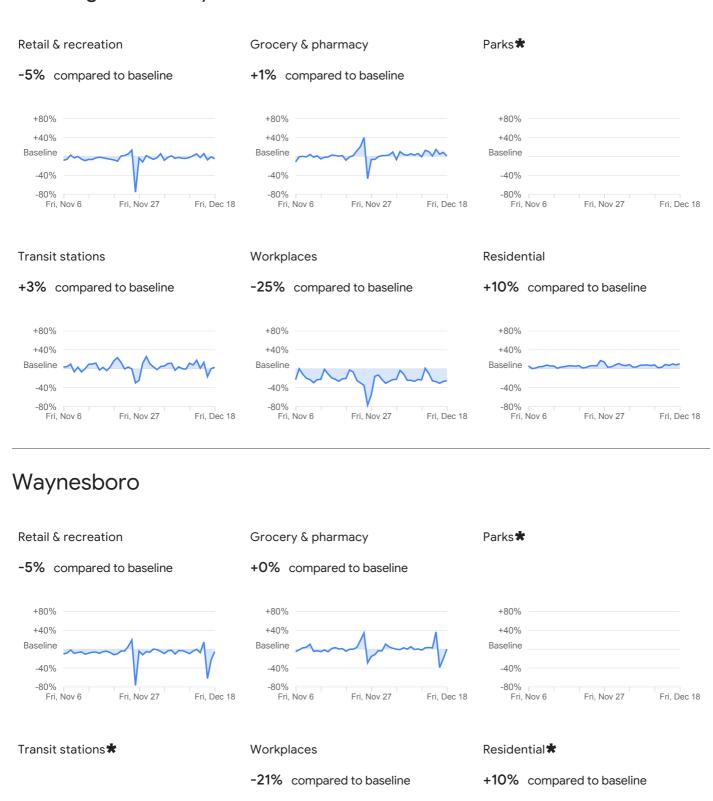


## Warren County



<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

#### Washington County



Fri, Dec 18

+80%

+40%

-40%

-80%

Fri, Nov 6

Fri, Nov 27

Baseline

+80%

+40% Baseline

-40%

-80%

Fri. Dec 18

Fri, Nov 6

Fri, Nov 27

Fri, Dec 18

+80%

+40%

-40%

-80%

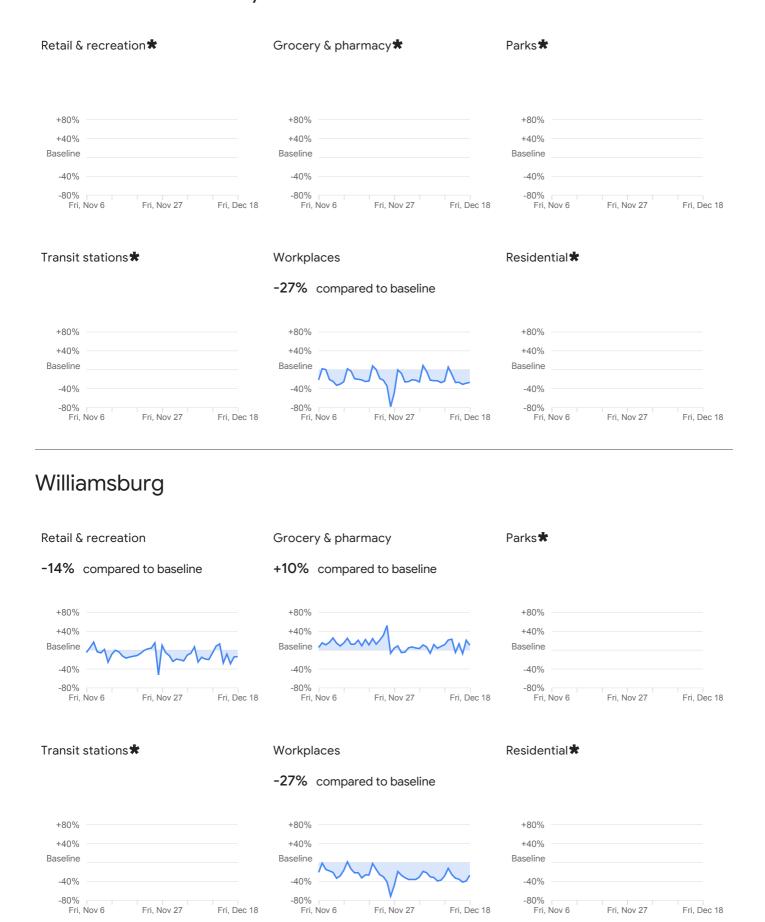
Fri, Nov 6

Fri, Nov 27

Baseline

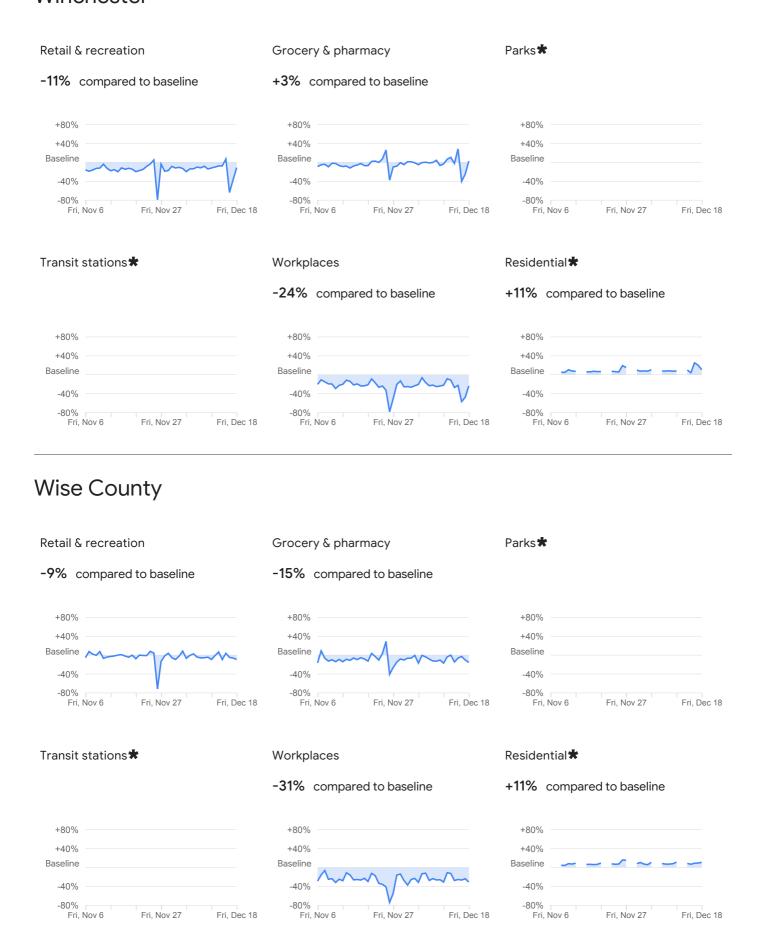
<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

## Westmoreland County



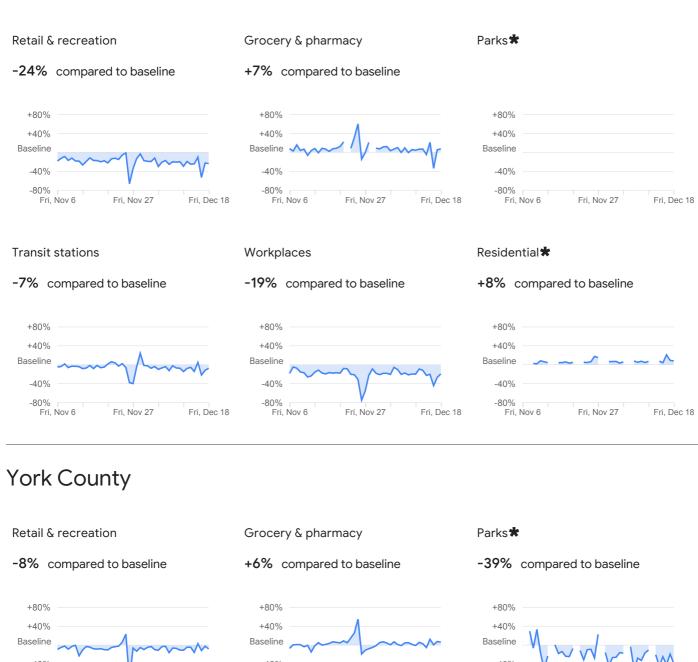
<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

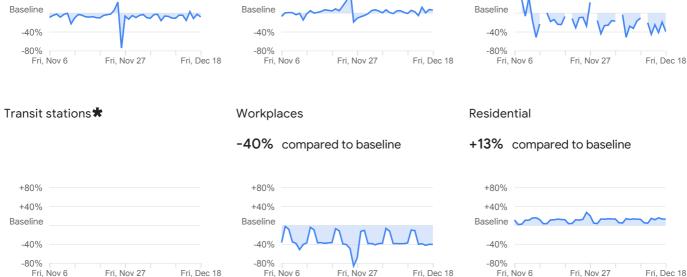
#### Winchester



<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

#### Wythe County





<sup>\*</sup> The data doesn't meet quality and privacy thresholds for every day in the chart.

#### 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