

Virginia December 22, 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.

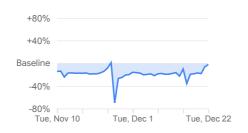
Location accuracy and the understanding of categorized places varies from region to region, so we don't recommend using this data to compare changes between countries, or between regions with different characteristics (e.g. rural versus urban areas).

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

-2%

compared to baseline

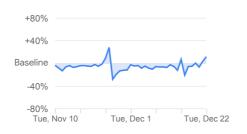


Mobility trends for places like restaurants, cafes, shopping centers, theme parks, museums, libraries, and movie theaters.

Grocery & pharmacy

+12%

compared to baseline

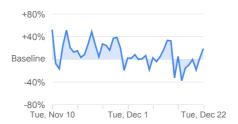


Mobility trends for places like grocery markets, food warehouses, farmers markets, specialty food shops, drug stores, and pharmacies.

Parks

+19%

compared to baseline



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

Transit stations

-32%

compared to baseline



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

Workplaces

-41%

compared to baseline

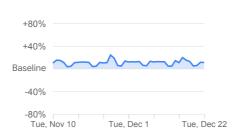


Mobility trends for places of work.

Residential

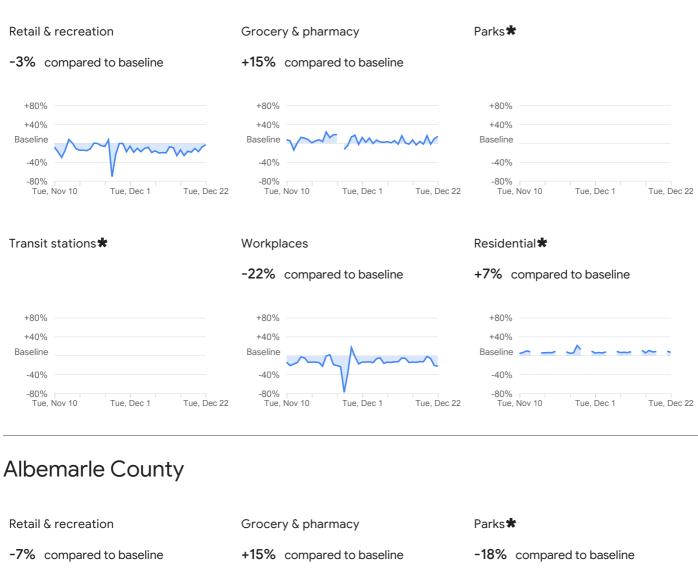
+11%

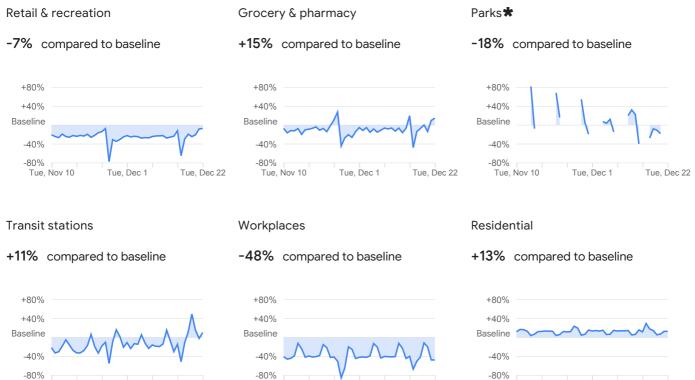
compared to baseline



Mobility trends for places of residence.

Accomack County





Tue. Dec 1

Tue. Dec 22

Tue, Dec 1

Tue. Nov 10

Tue, Dec 22

Tue. Nov 10

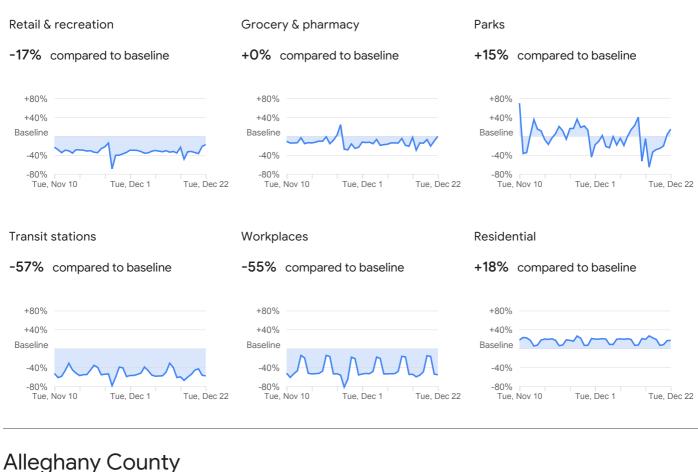
Tue. Dec 22

Tue. Nov 10

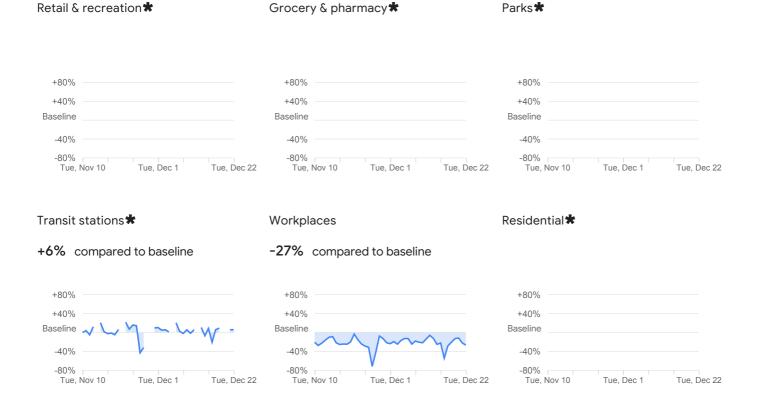
Tue. Dec 1

^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Alexandria

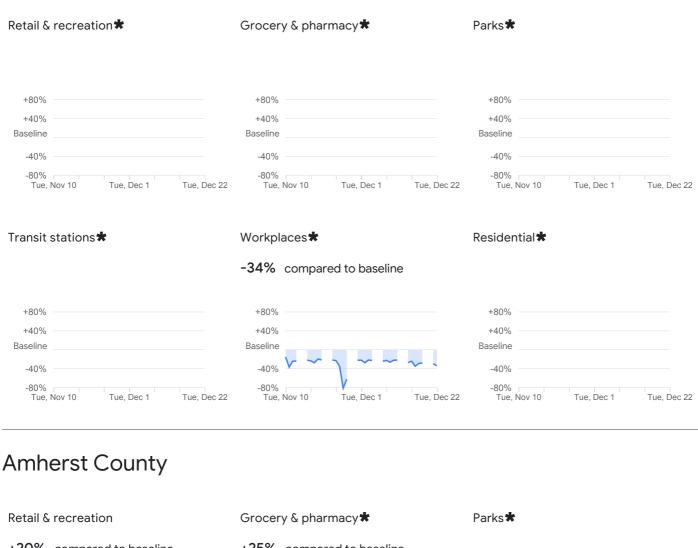


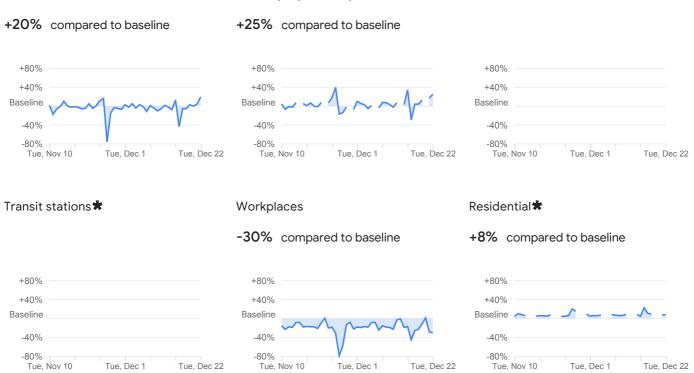
Alleghany County



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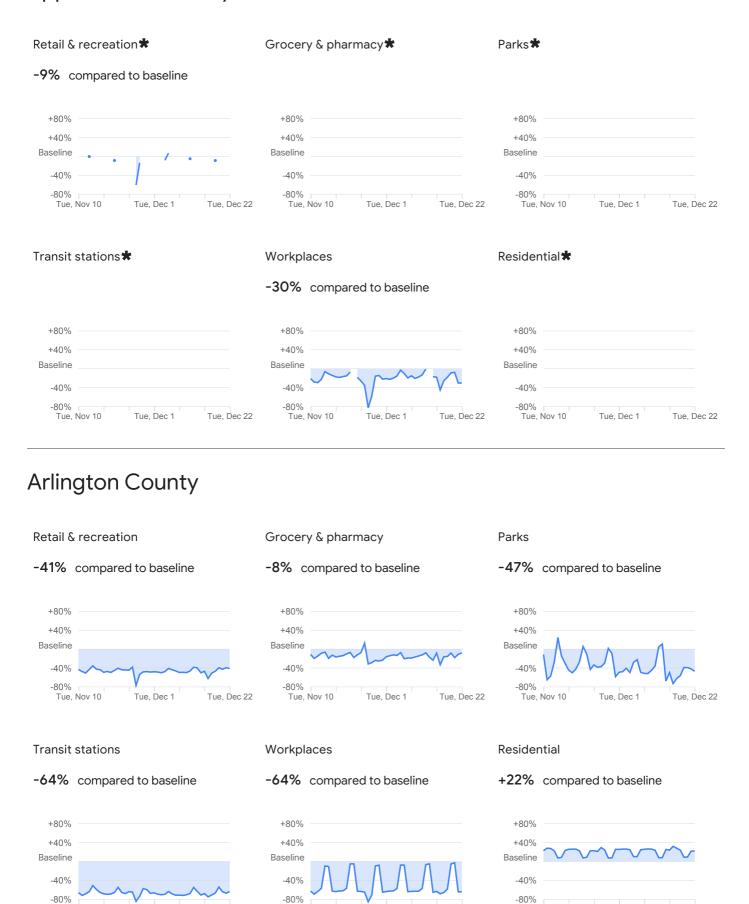
Amelia County





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Appomattox County



Tue, Dec 1

Tue. Dec 22

Tue. Nov 10

Tue. Nov 10

Tue. Dec 1

Tue. Dec 22

Tue, Dec 22

Tue, Nov 10

Tue, Dec 1

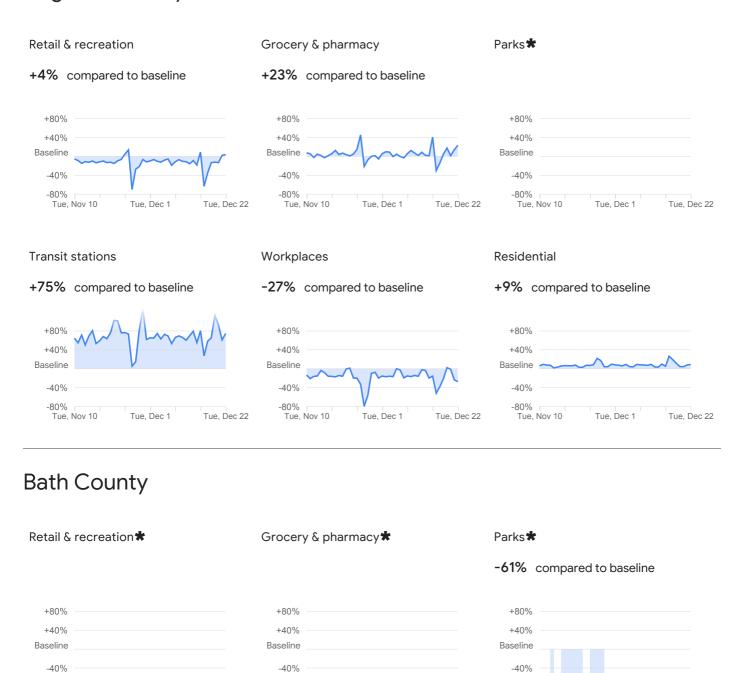
^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

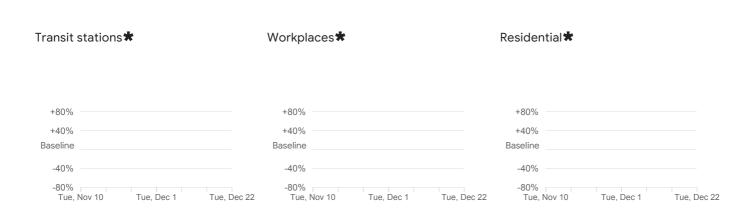
Augusta County

-80%

Tue, Nov 10

Tue. Dec 1





Tue. Dec 1

-80%

Tue, Nov 10

Tue, Dec 1

Tue, Dec 22

Tue. Dec 22

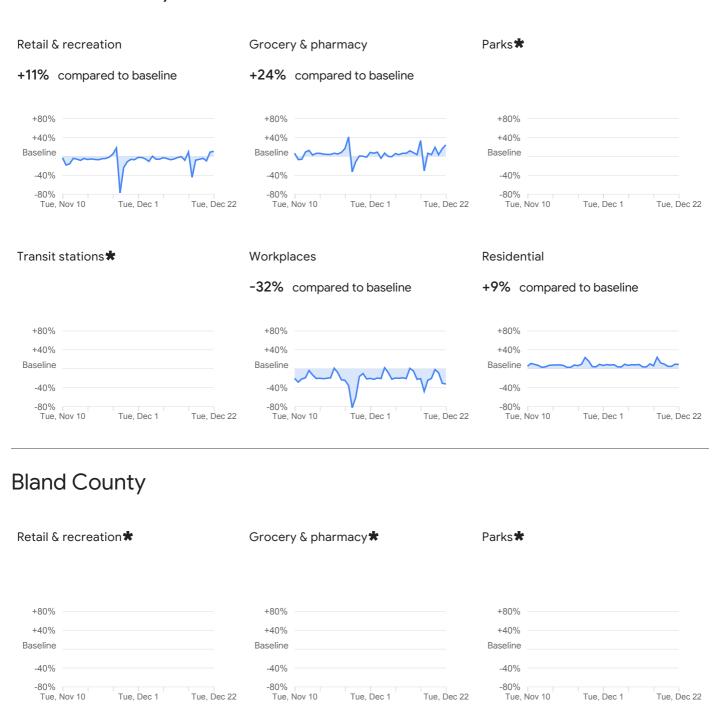
-80%

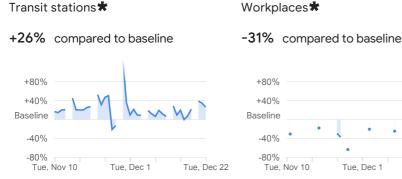
Tue, Nov 10

Tue. Dec 22

^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Bedford County







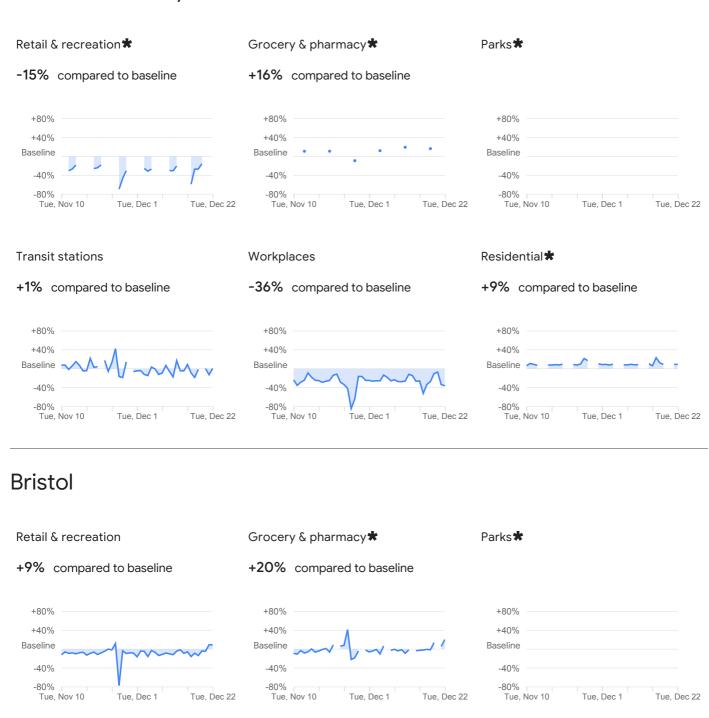
Residential*

^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Botetourt County

Transit stations*

+80%





-27% compared to baseline

Residential*

+80%

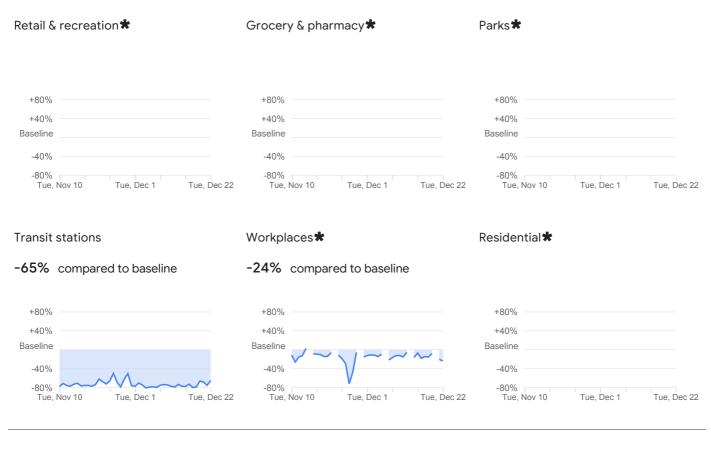
+4% compared to baseline

Workplaces

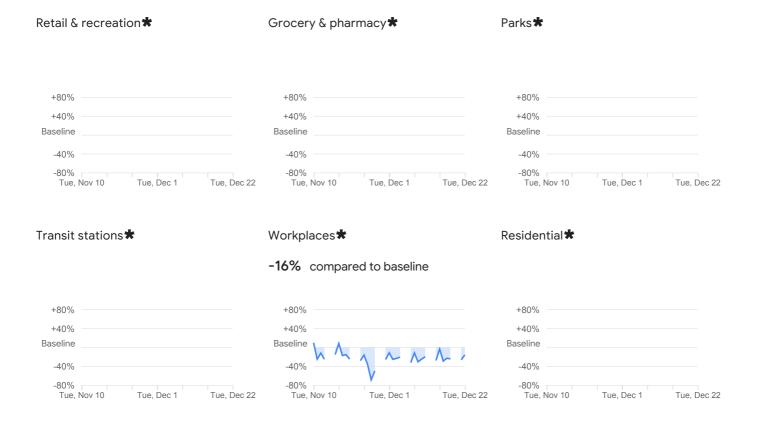
+80%

^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Brunswick County

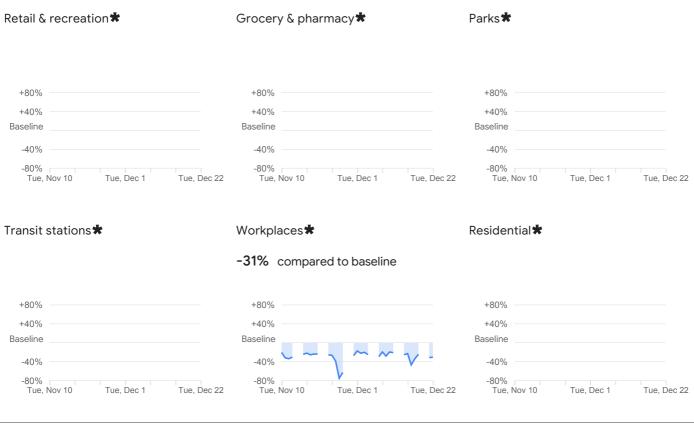


Buchanan County

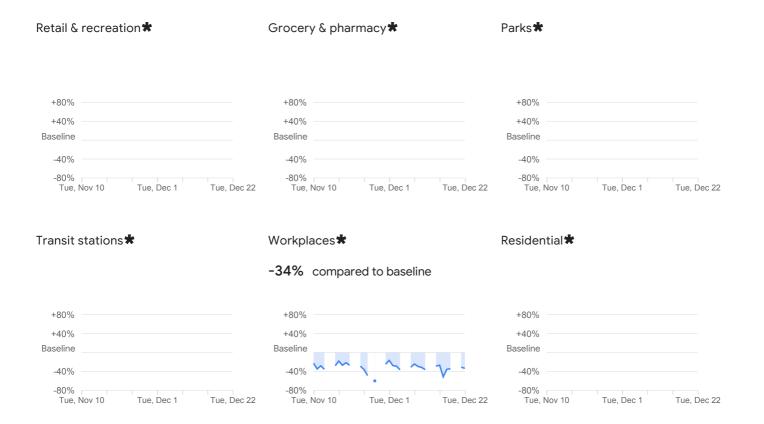


^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Buckingham County

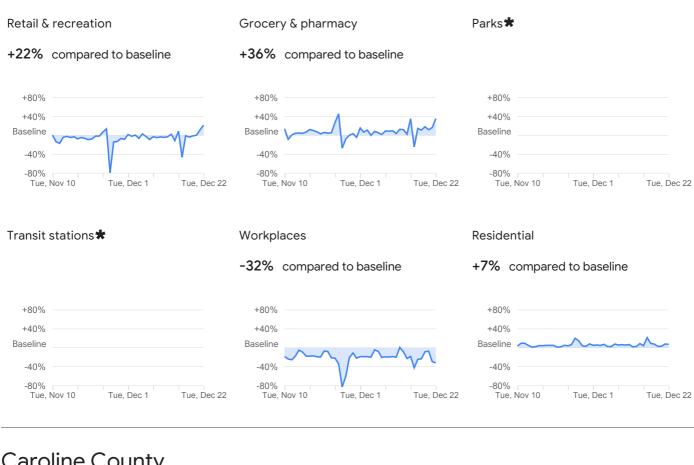


Buena Vista

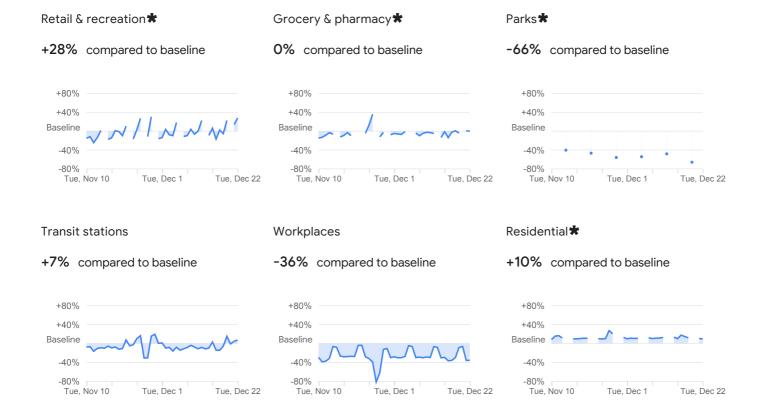


^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Campbell County

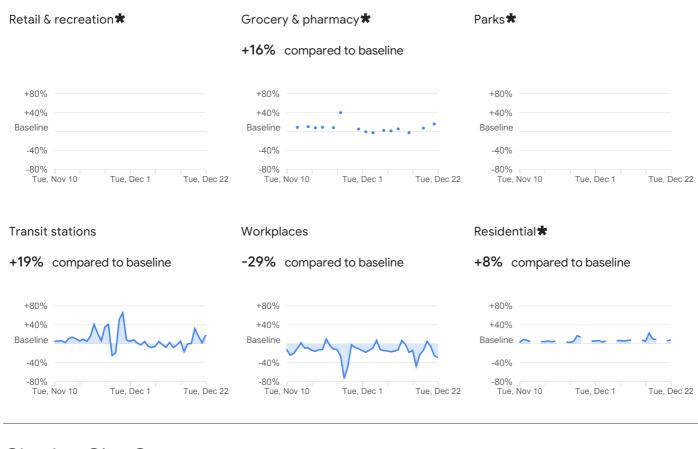


Caroline County

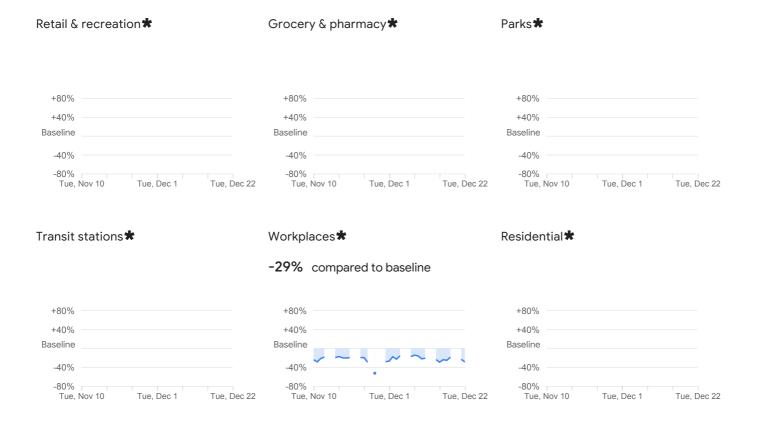


^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Carroll County

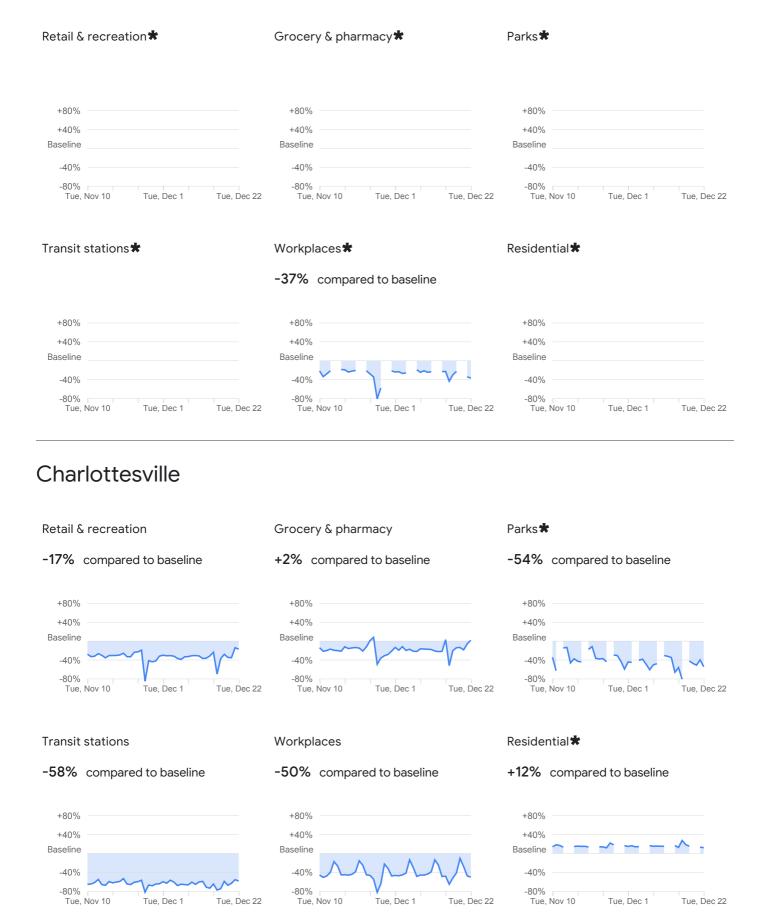


Charles City County



^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Charlotte County

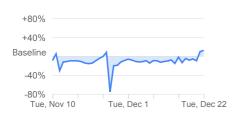


^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Chesapeake

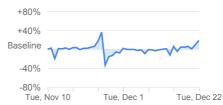


+13% compared to baseline



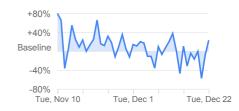
Grocery & pharmacy

+19% compared to baseline



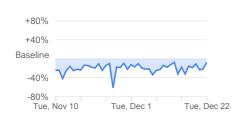
Parks

+24% compared to baseline



Transit stations

-8% compared to baseline



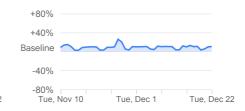
Workplaces

-41% compared to baseline



Residential

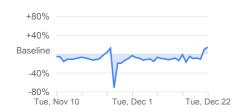
+11% compared to baseline



Chesterfield County

Retail & recreation

+15% compared to baseline



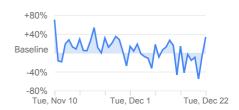
Grocery & pharmacy

+14% compared to baseline



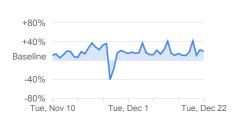
Parks

+34% compared to baseline



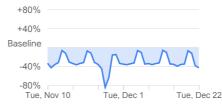
Transit stations

+19% compared to baseline



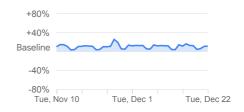
Workplaces

-43% compared to baseline

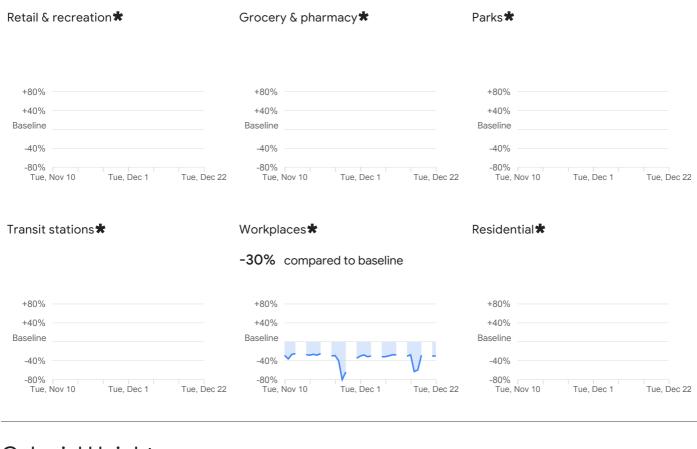


Residential

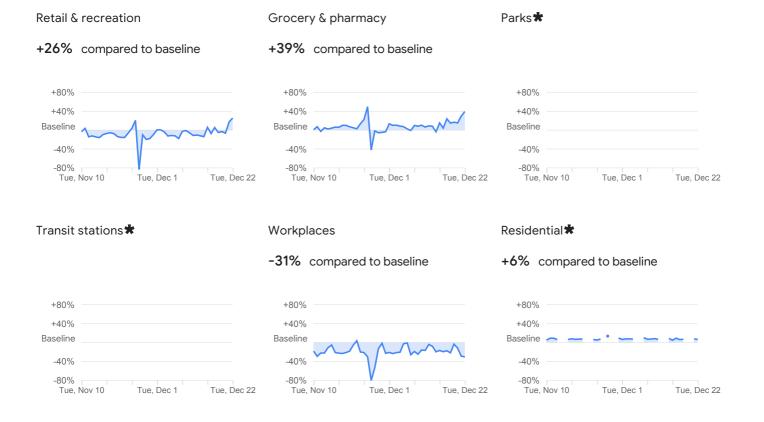
+11% compared to baseline



Clarke County

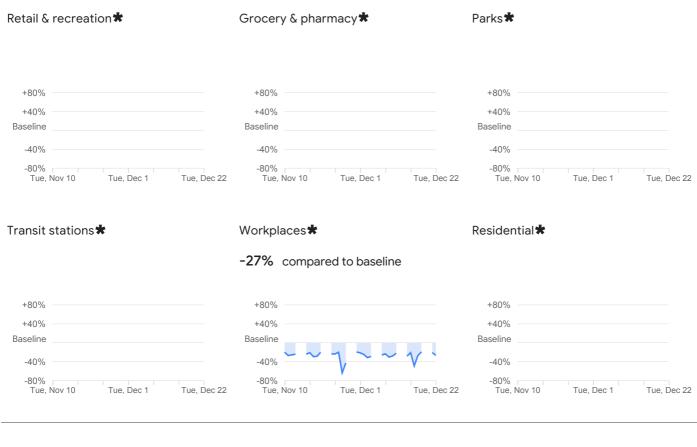


Colonial Heights

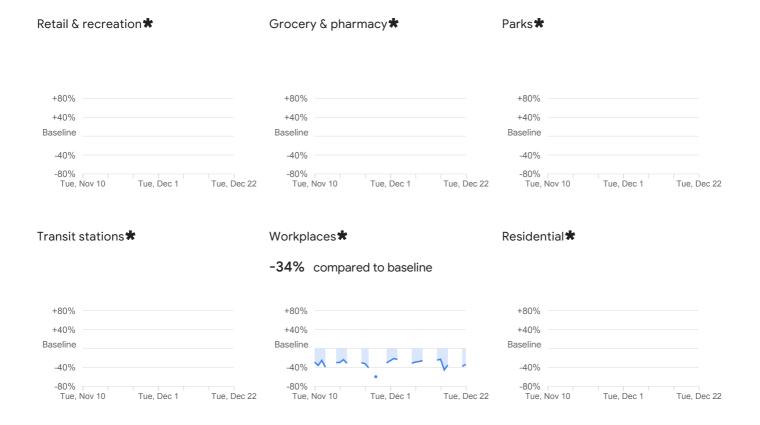


^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Covington

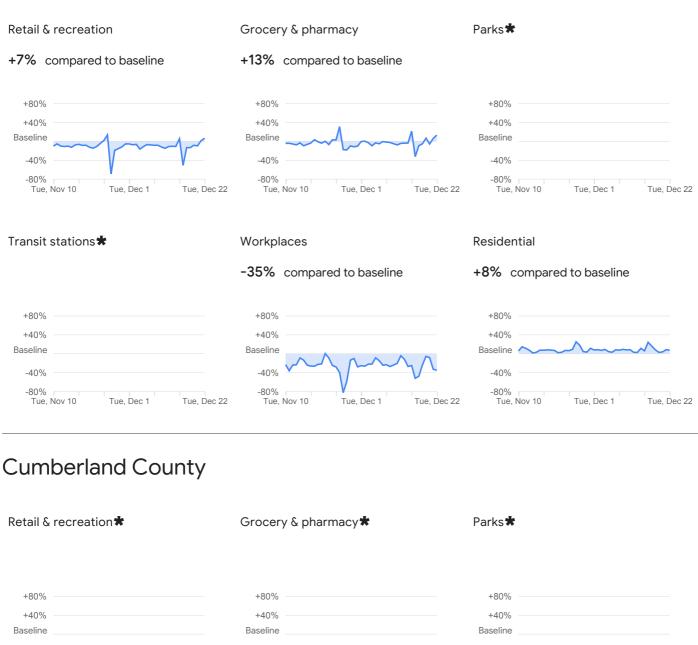


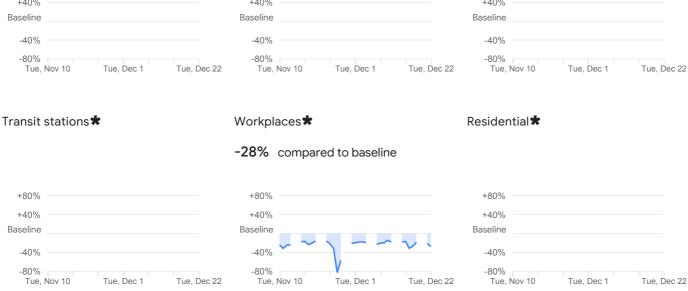
Craig County



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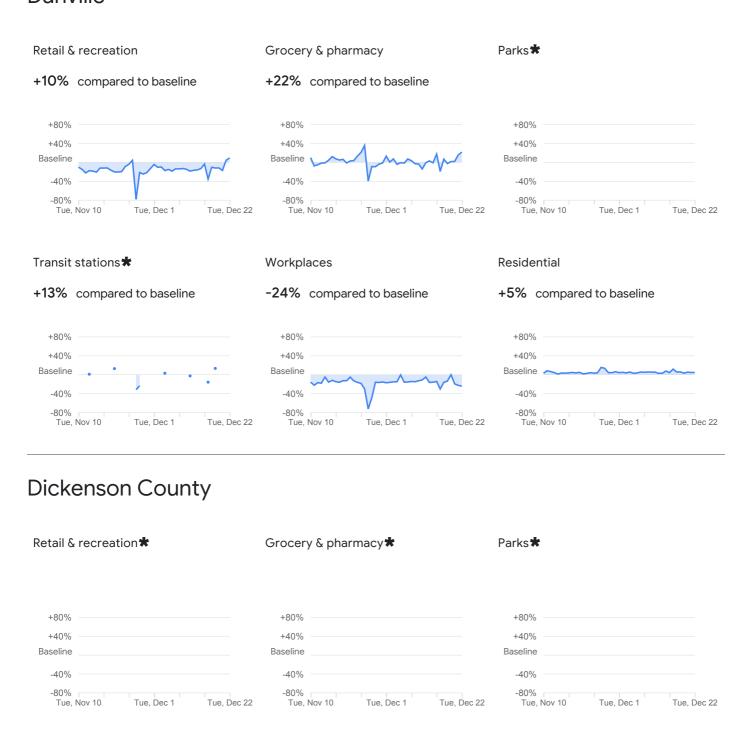
Culpeper County

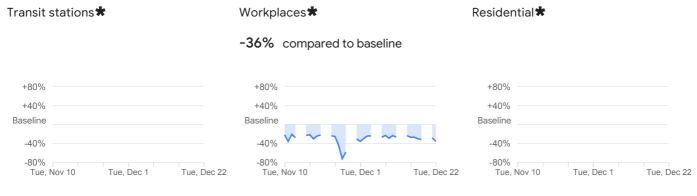




^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

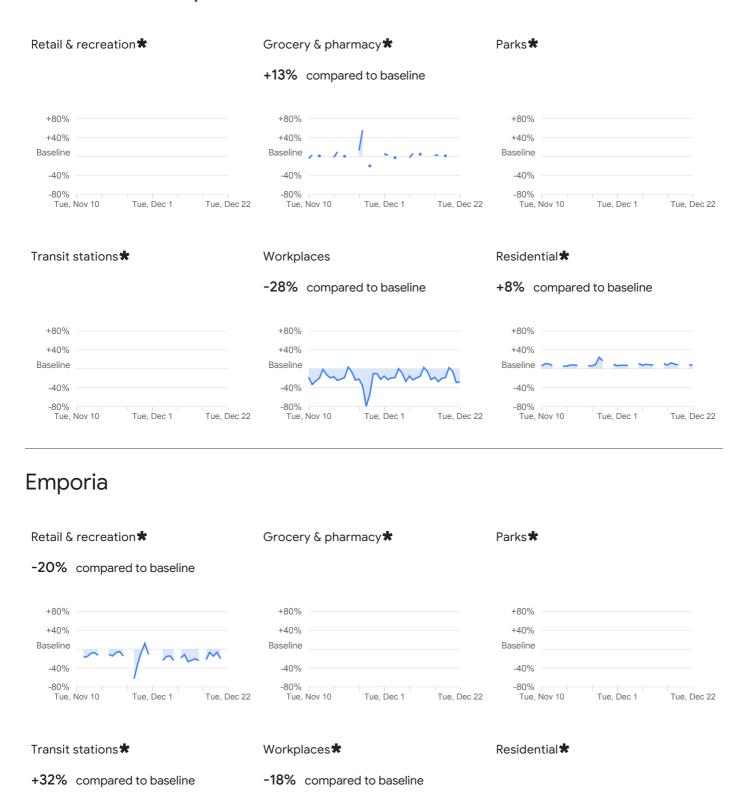
Danville





^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Dinwiddie County



Tue, Dec 22

+80%

+40%

-40%

-80%

Tue, Nov 10

Tue. Dec 1

Baseline

+80% +40%

Baseline

-40%

-80%

Tue. Dec 22

Tue, Nov 10

Tue, Dec 1

Tue, Dec 22

+80%

+40%

-40%

-80%

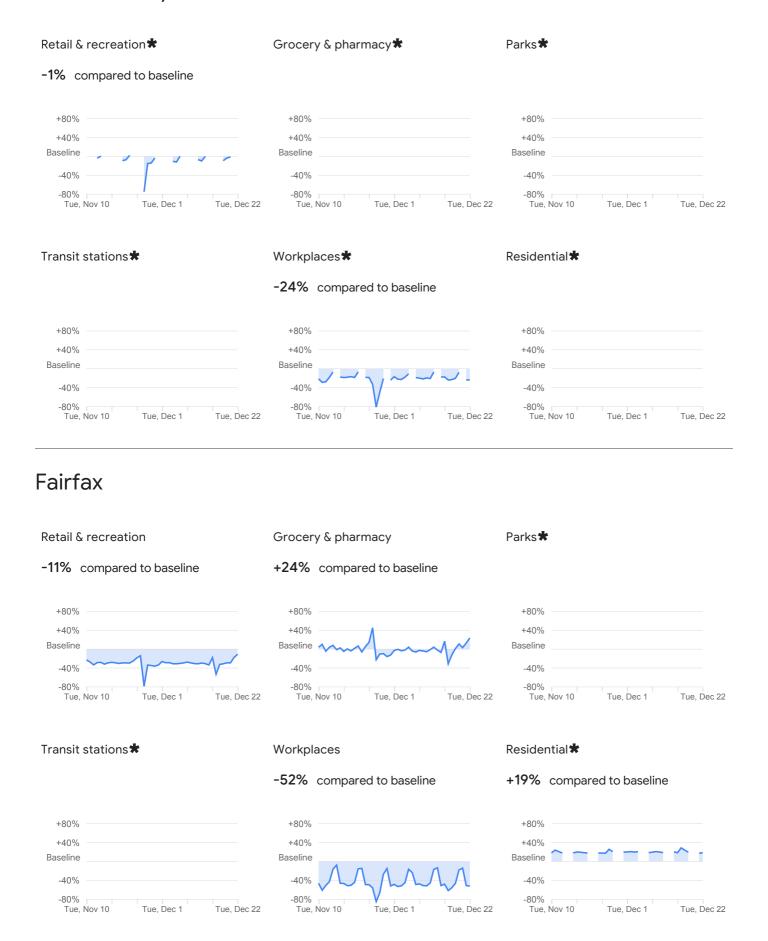
Tue. Nov 10

Tue, Dec 1

Baseline

^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Essex County



^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Fairfax County

Transit stations*

+80%

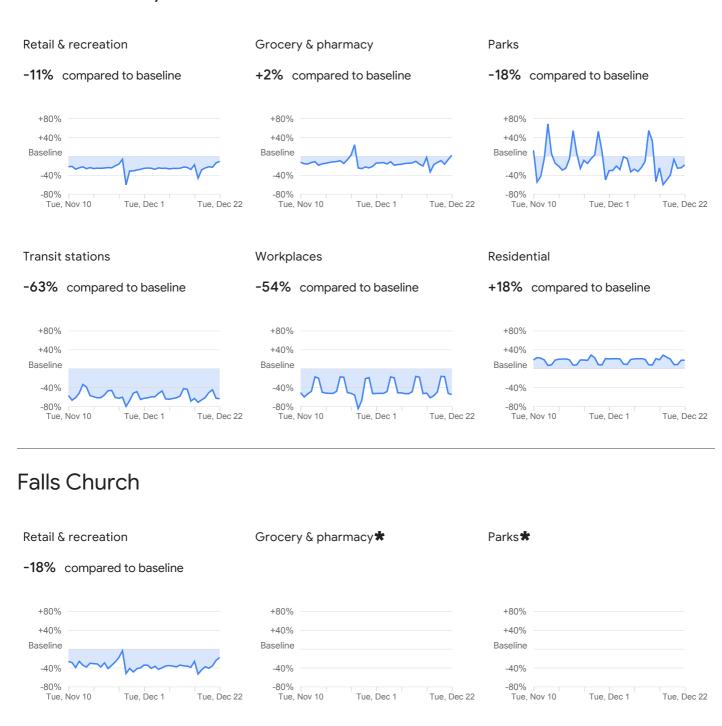
+40% Baseline

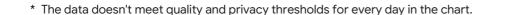
-40%

-80%

Tue, Nov 10

Tue, Dec 1





Tue, Dec 22

Workplaces*

+80%

+40%

-40%

-80%

Tue. Nov 10

Baseline

-63% compared to baseline

Tue, Dec 1

Residential*

+80%

+40%

-80%

Tue. Dec 22

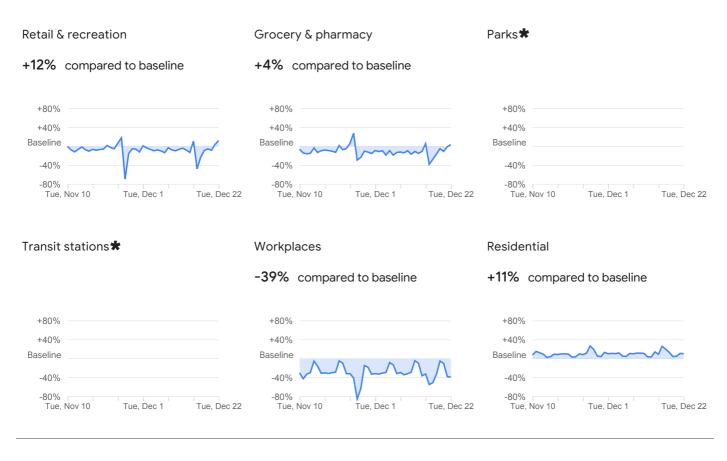
Tue, Nov 10

Tue, Dec 1

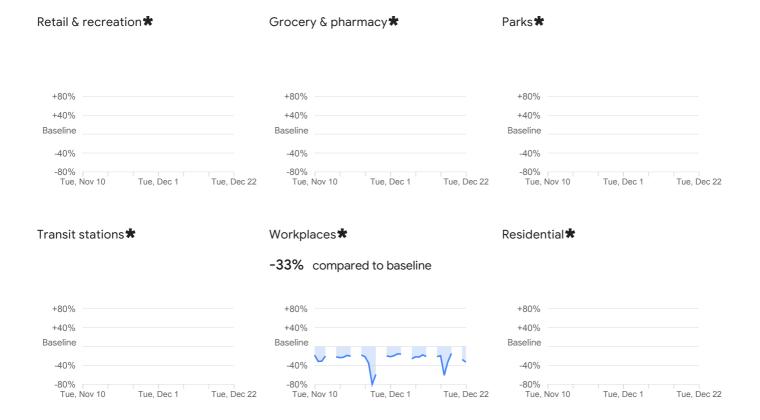
Tue, Dec 22

Baseline -40%

Fauquier County

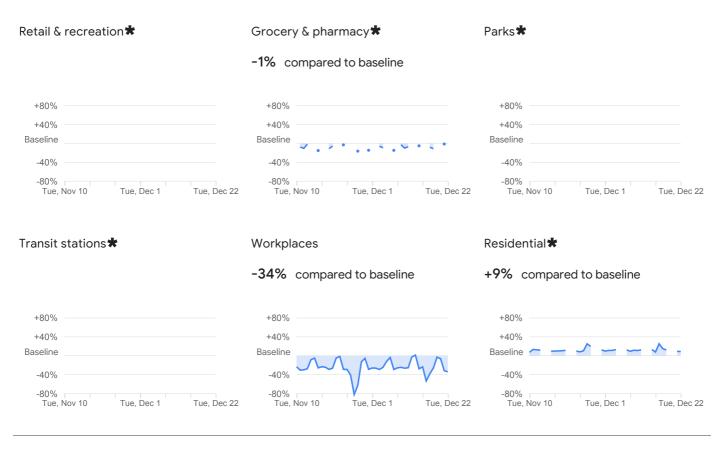


Floyd County

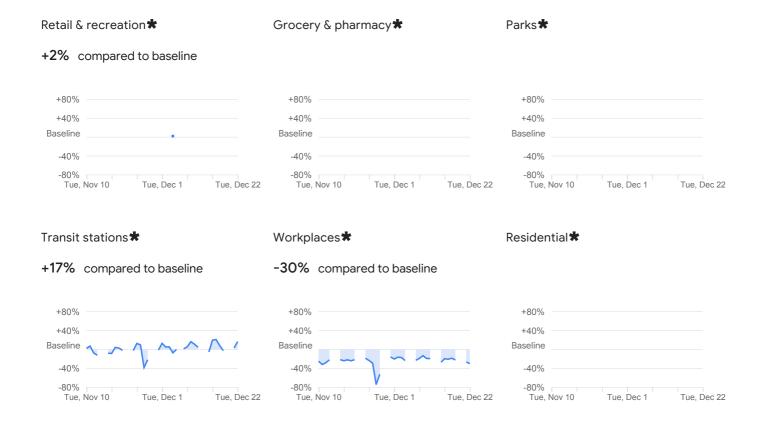


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Fluvanna County

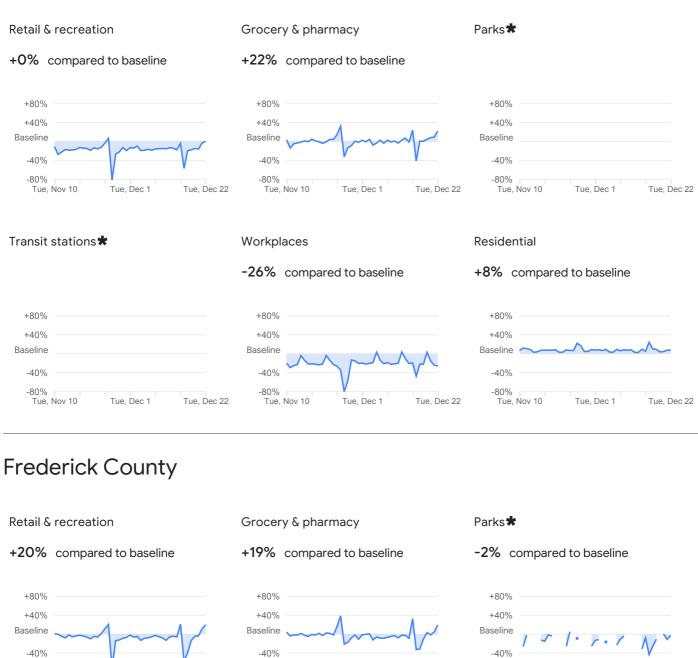


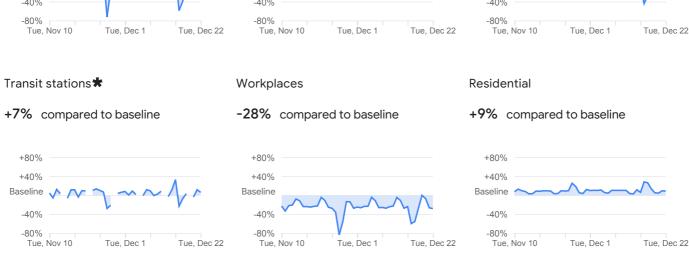
Franklin



^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

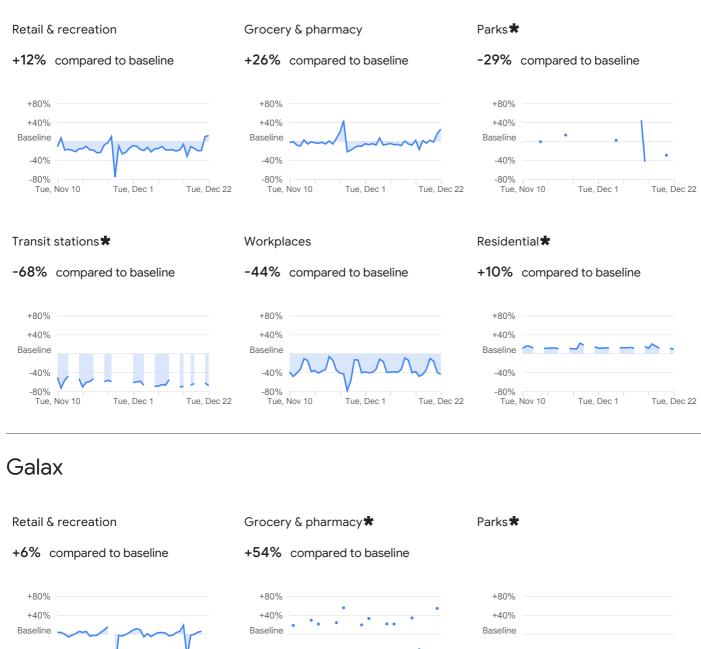
Franklin County

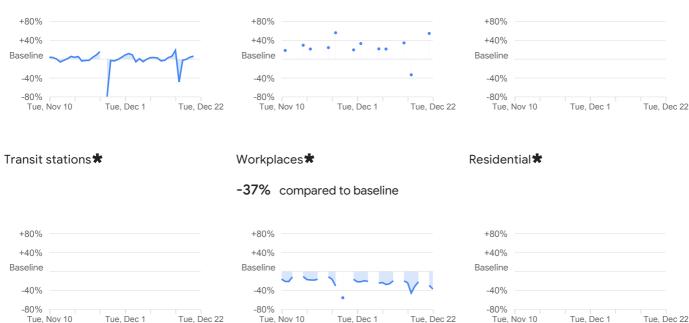




^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

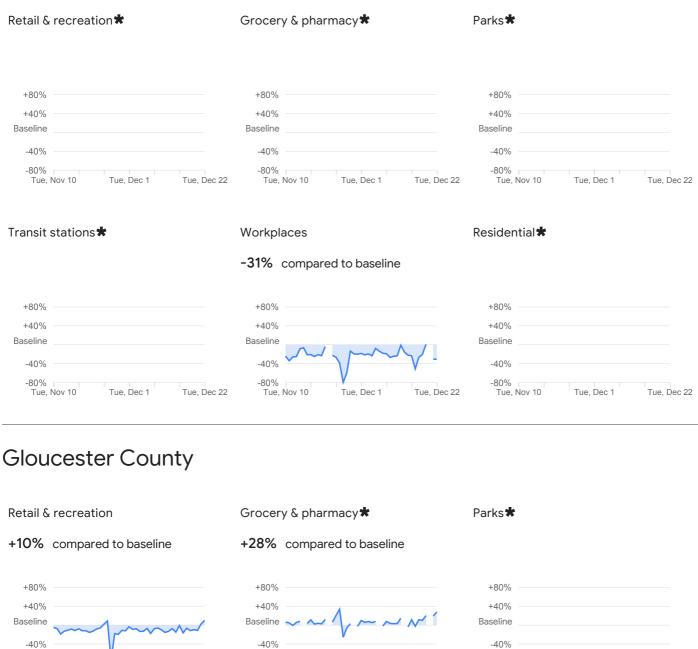
Fredericksburg

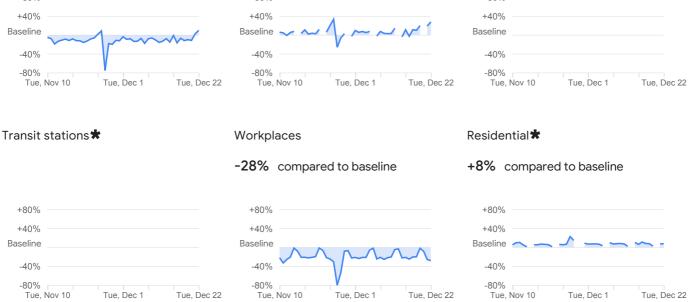




^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

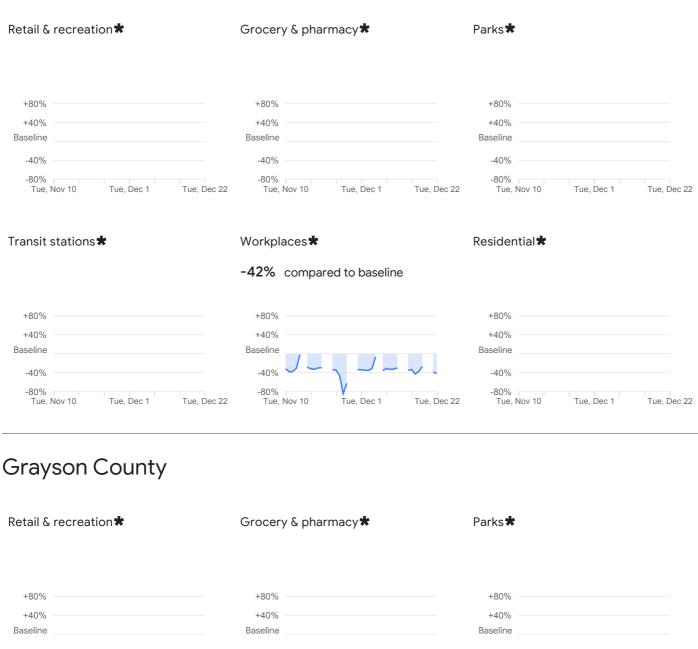
Giles County

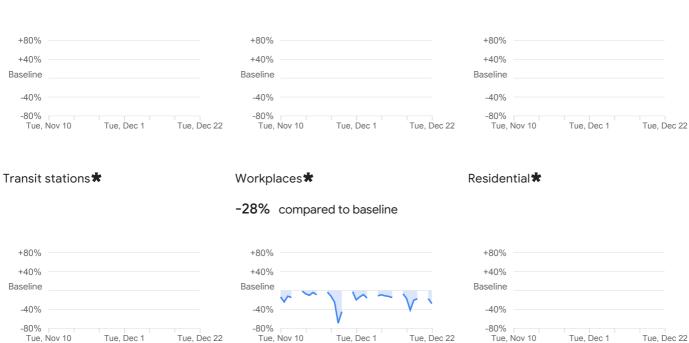




^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

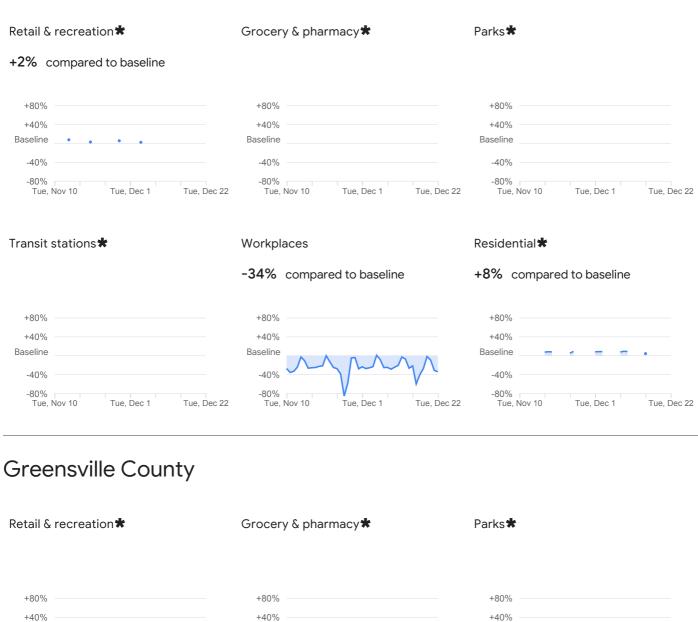
Goochland County

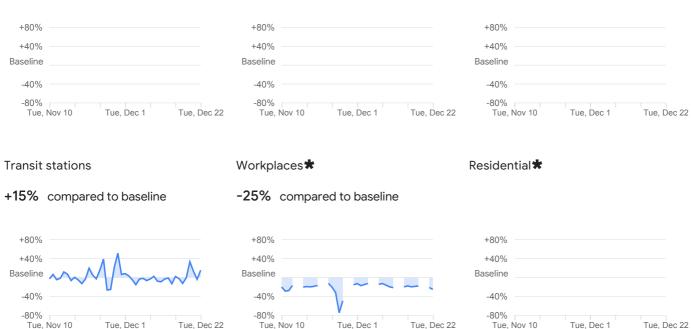




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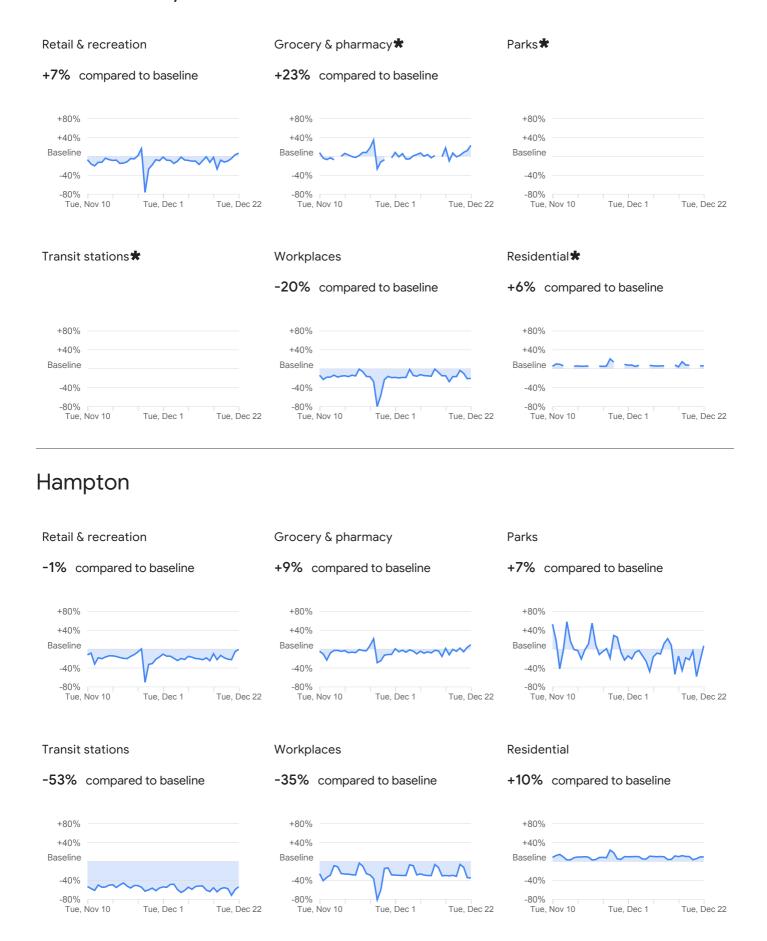
Greene County





^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Halifax County



^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Hanover County

Transit stations*

+80%

+40%

-40%

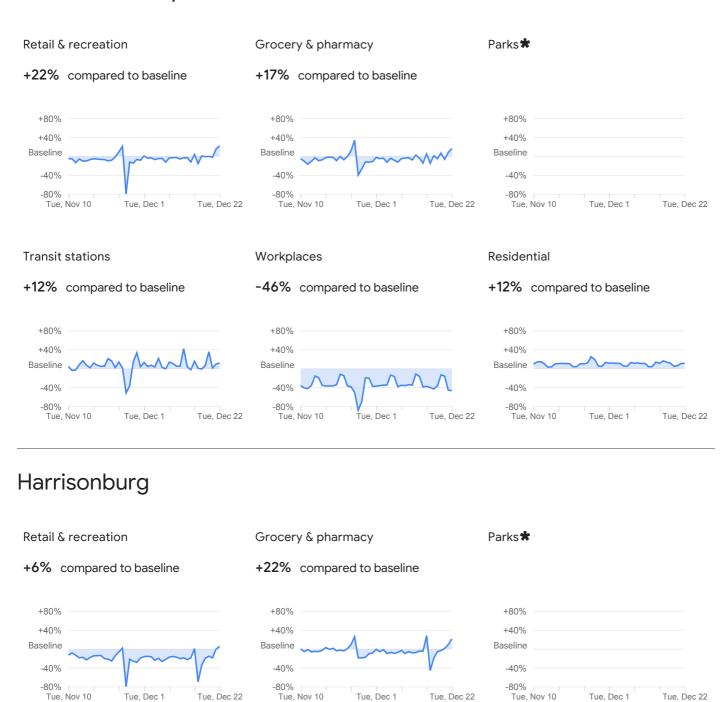
-80%

Tue. Nov 10

Baseline

+19% compared to baseline

Tue. Dec 1





Tue. Dec 22

* The data doesn't meet quality and privacy thresholds for every day in the chart.

Workplaces

+80%

+40%

-40%

-80%

Tue. Nov 10

Baseline

-34% compared to baseline

Tue. Dec 1

Residential*

+80%

+40% Baseline

-40%

-80%

Tue. Nov 10

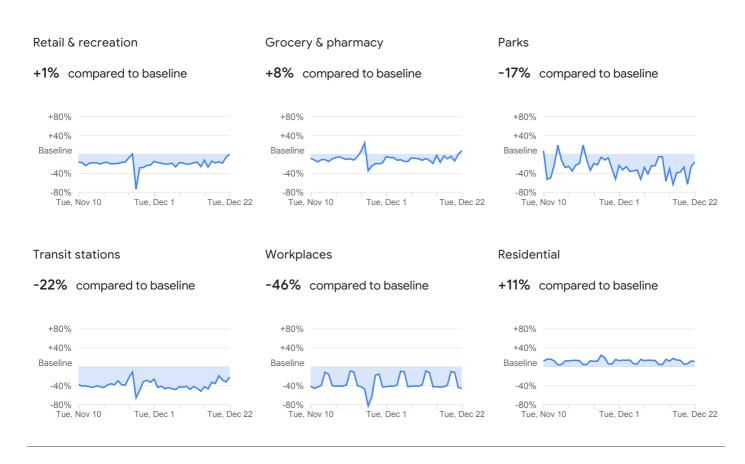
Tue. Dec 22

+7% compared to baseline

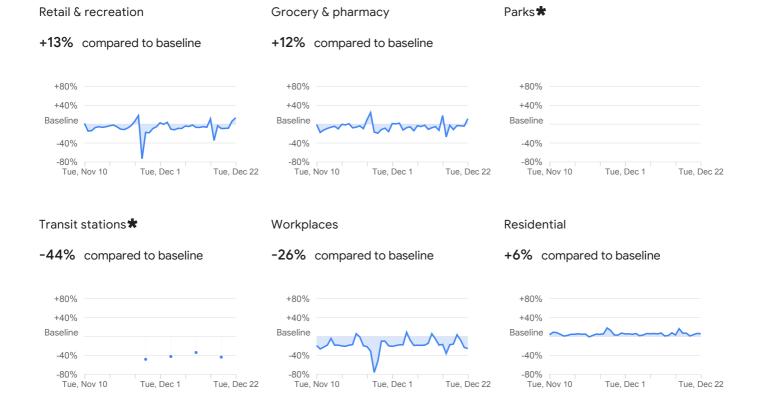
Tue, Dec 1

Tue, Dec 22

Henrico County

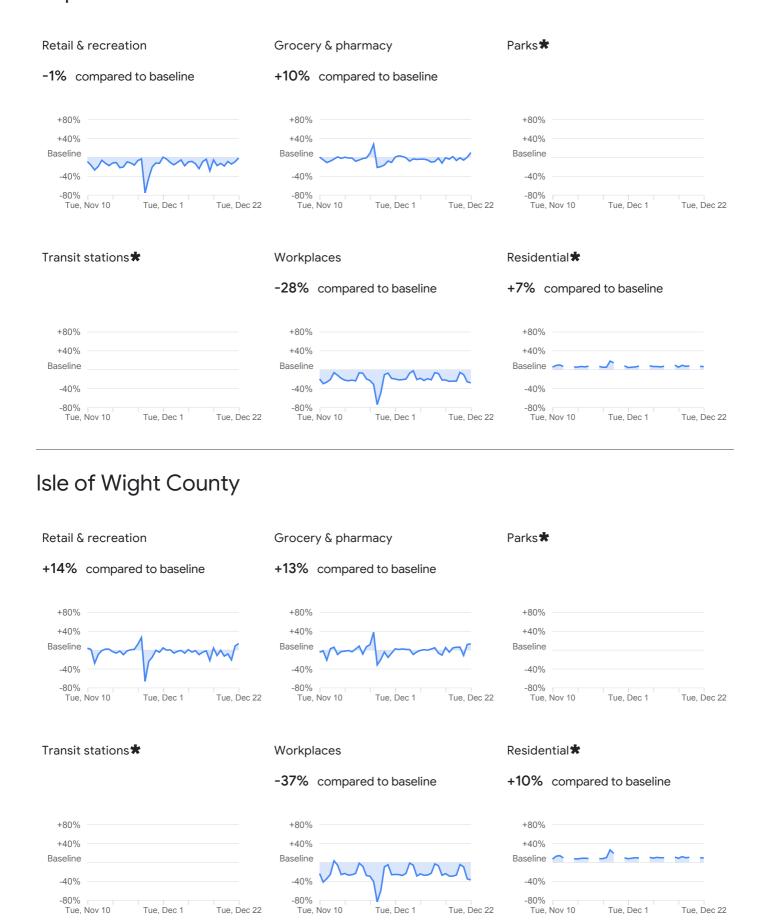


Henry County



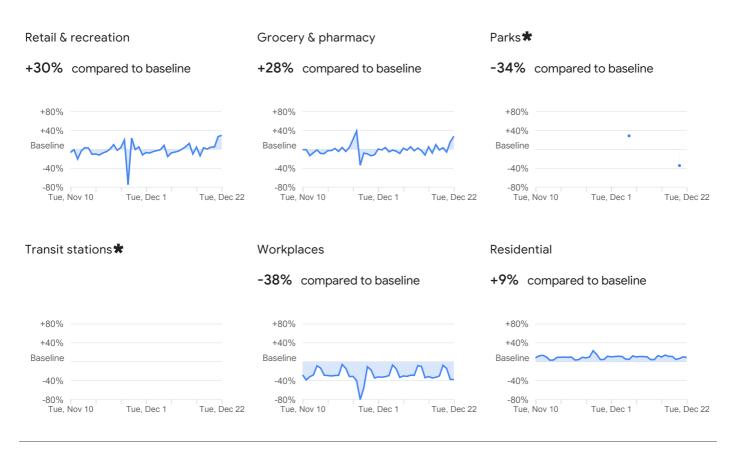
^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Hopewell

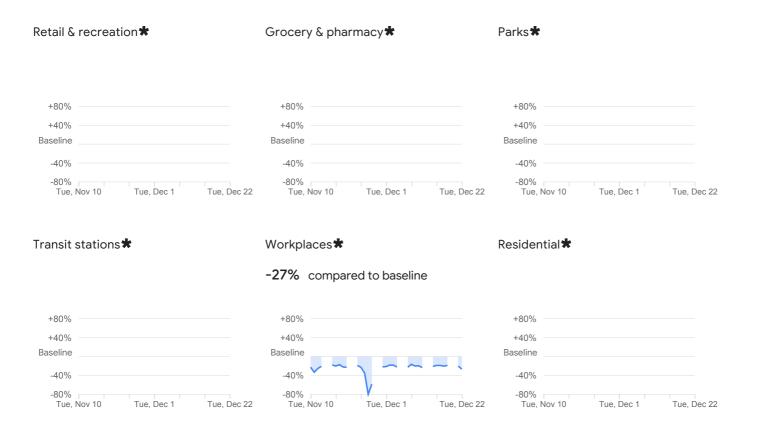


^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

James City County

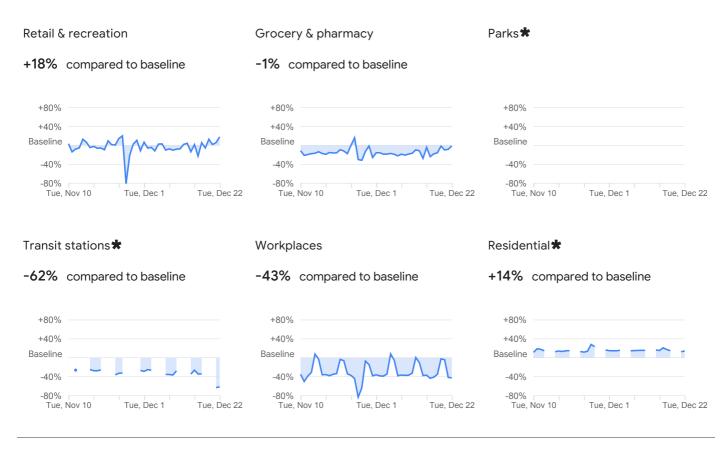


King and Queen County

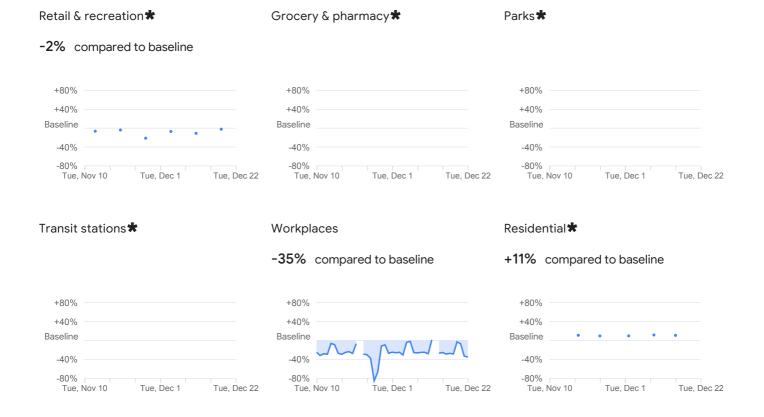


^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

King George County

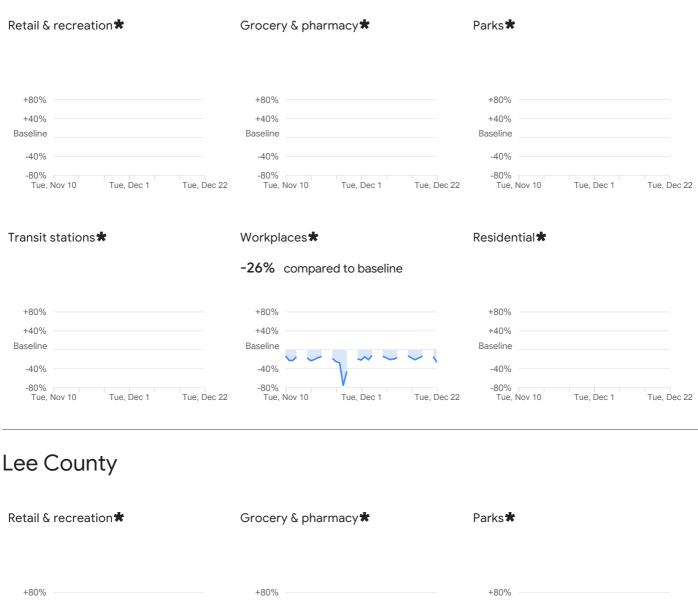


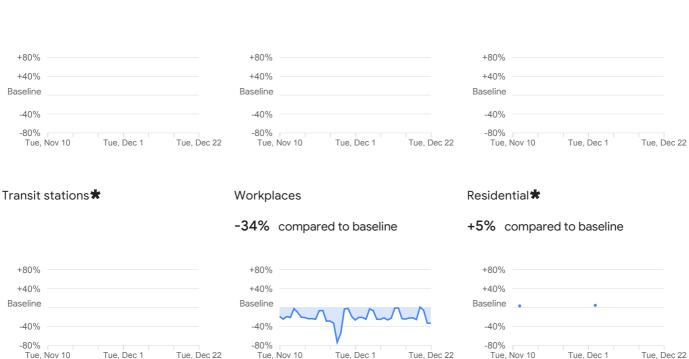
King William County



^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

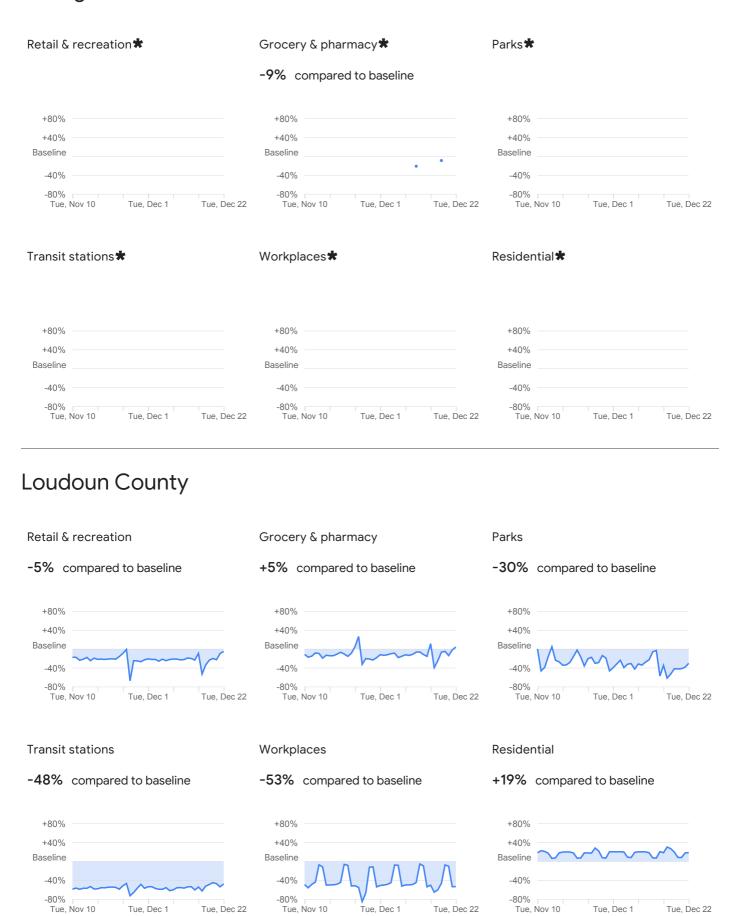
Lancaster County





^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Lexington



^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Louisa County



-40%

-80%

Tue. Dec 22

Tue, Nov 10

Tue, Dec 1

Tue, Dec 22

Tue, Dec 22

-40%

-80%

Tue. Nov 10

Tue, Dec 1

-40%

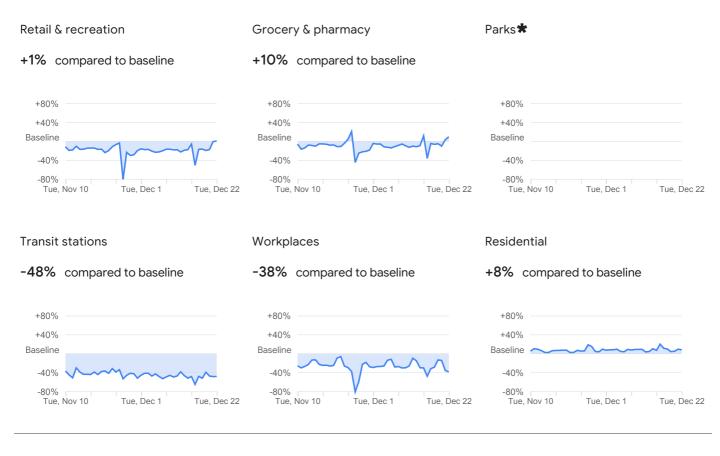
-80%

Tue, Nov 10

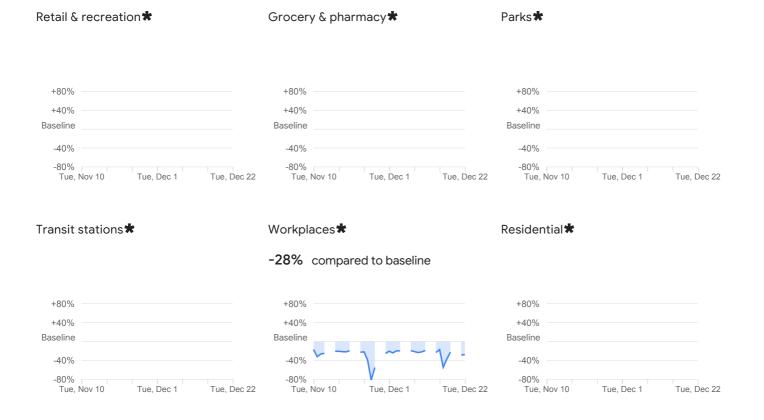
Tue, Dec 1

^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Lynchburg

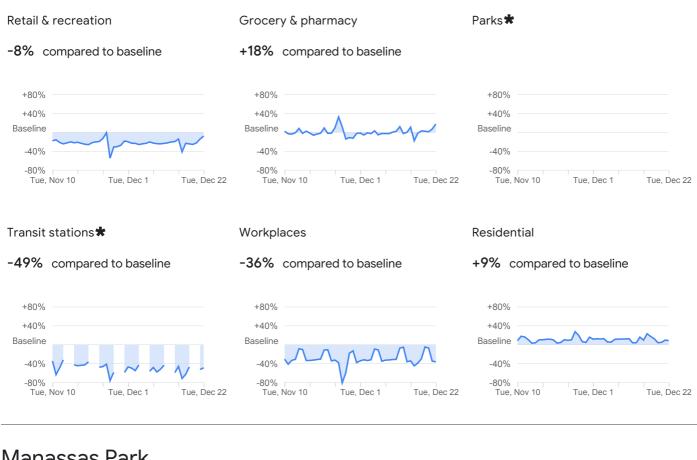


Madison County

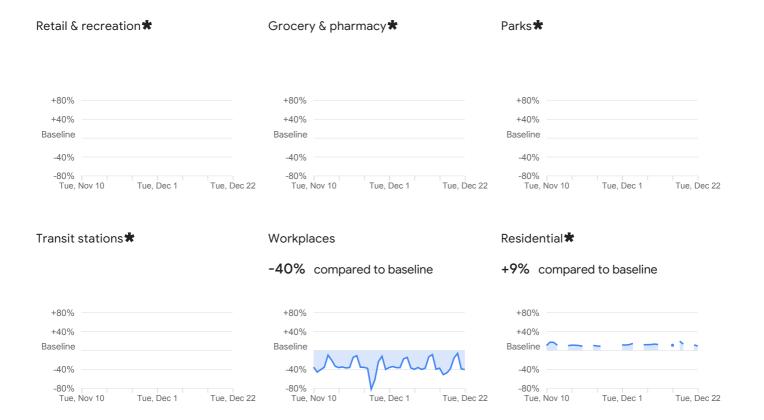


^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Manassas



Manassas Park



^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Martinsville

+80%

+40%

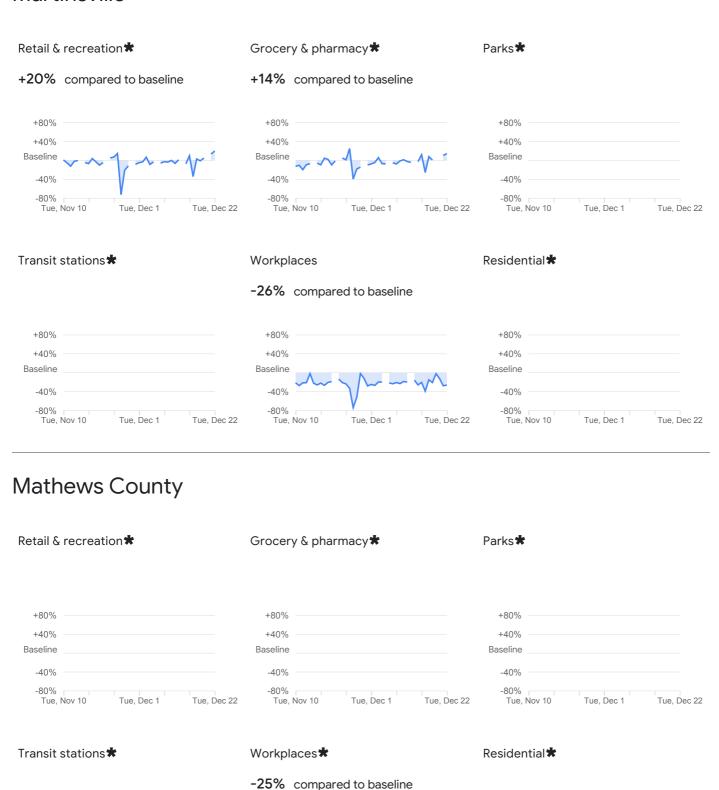
-40%

-80%

Tue, Nov 10

Tue, Dec 1

Baseline



Tue, Dec 22

+80%

+40%

-40%

-80%

Tue. Nov 10

Tue, Dec 1

Baseline

+80%

+40%

-40%

-80%

Tue. Dec 22

Tue, Nov 10

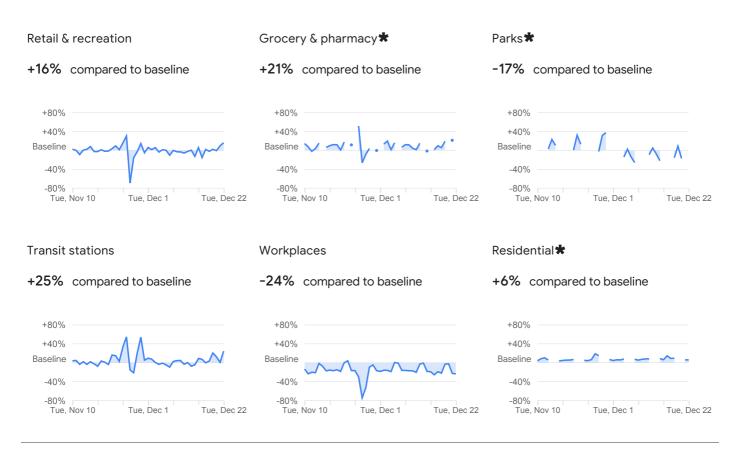
Tue, Dec 1

Tue, Dec 22

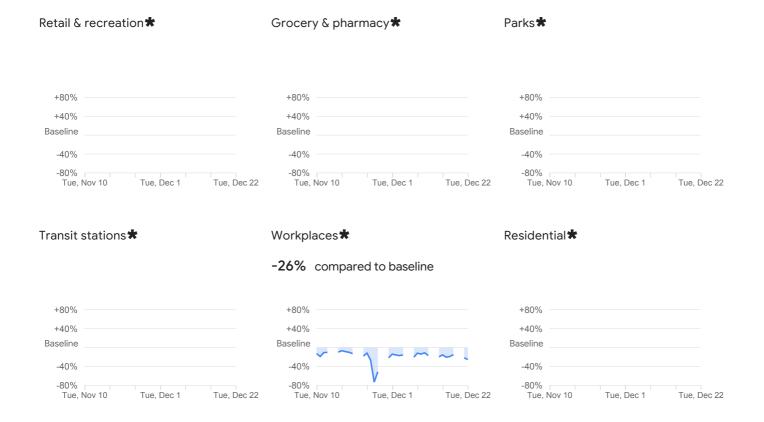
Baseline

^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Mecklenburg County

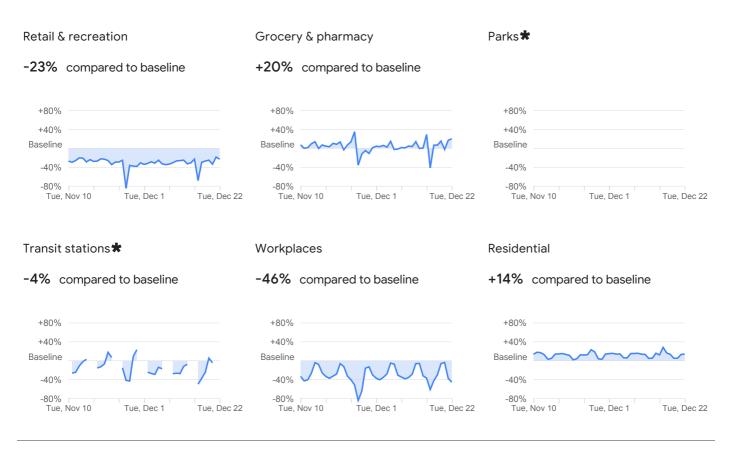


Middlesex County

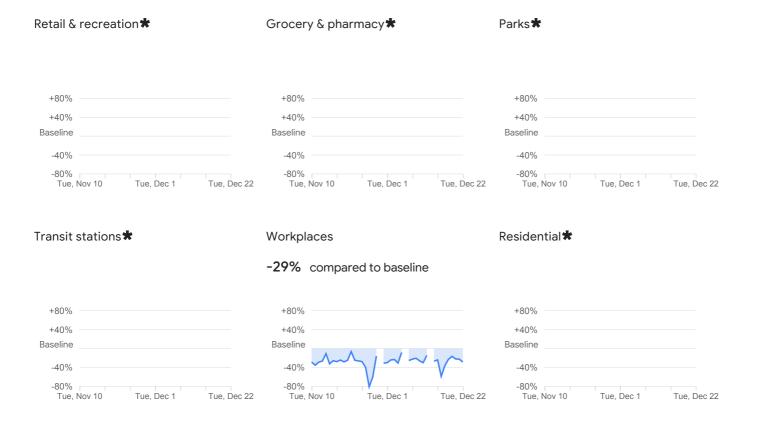


^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Montgomery County

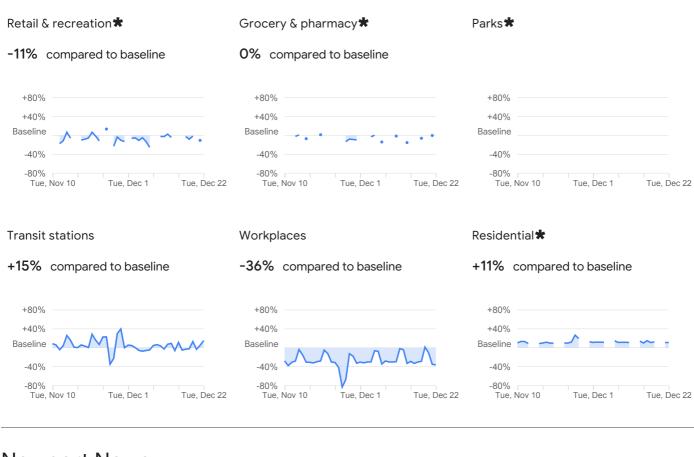


Nelson County

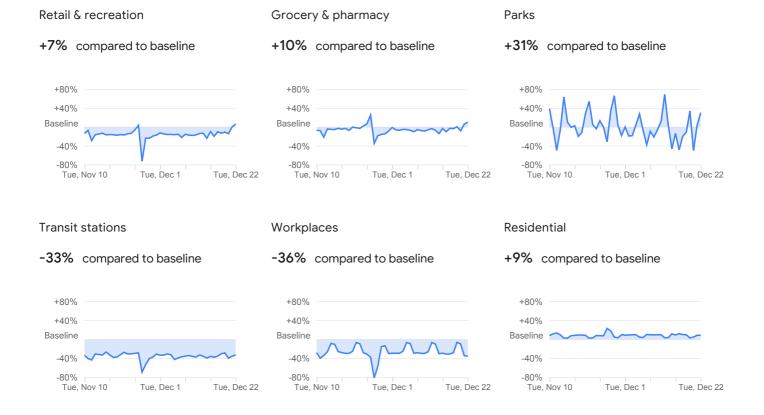


^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

New Kent County

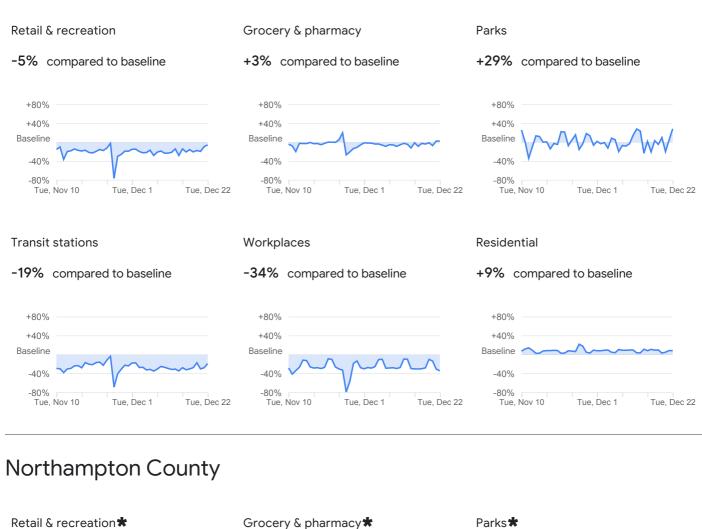


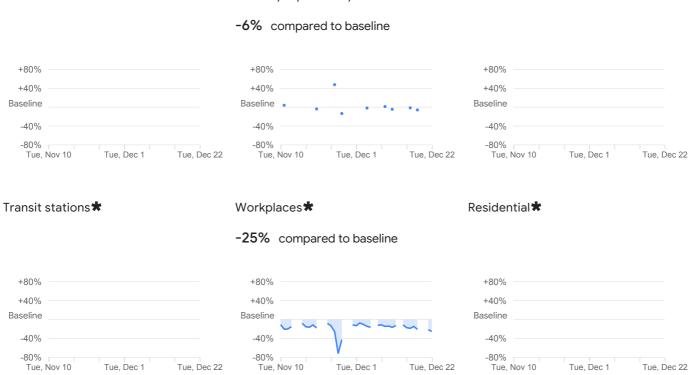
Newport News



^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

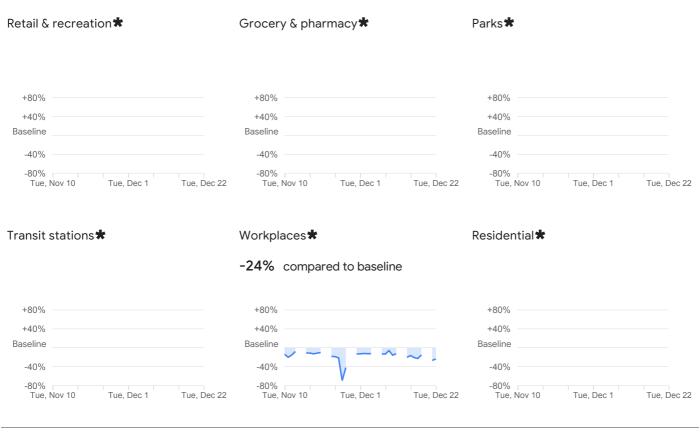
Norfolk



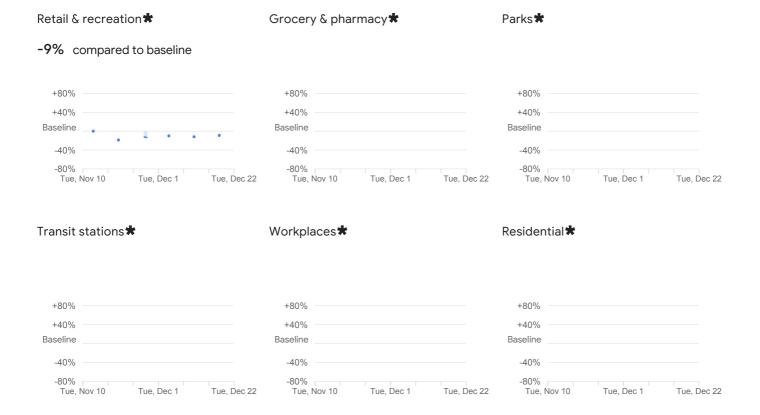


^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Northumberland County

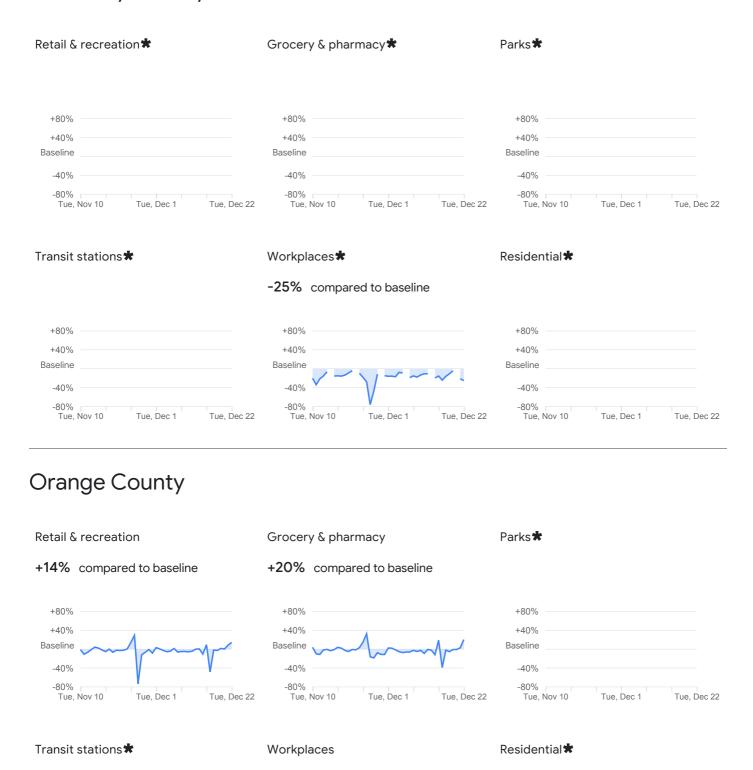


Norton



^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Nottoway County



-29% compared to baseline

Tue, Dec 1

+80%

+40%

-40%

-80%

Tue. Nov 10

Baseline

+9% compared to baseline

Tue, Dec 1

Tue, Dec 22

+80%

+40%

-80%

Tue. Nov 10

Tue. Dec 22

Baseline -40%

Tue, Dec 22

+80%

+40%

-40%

-80%

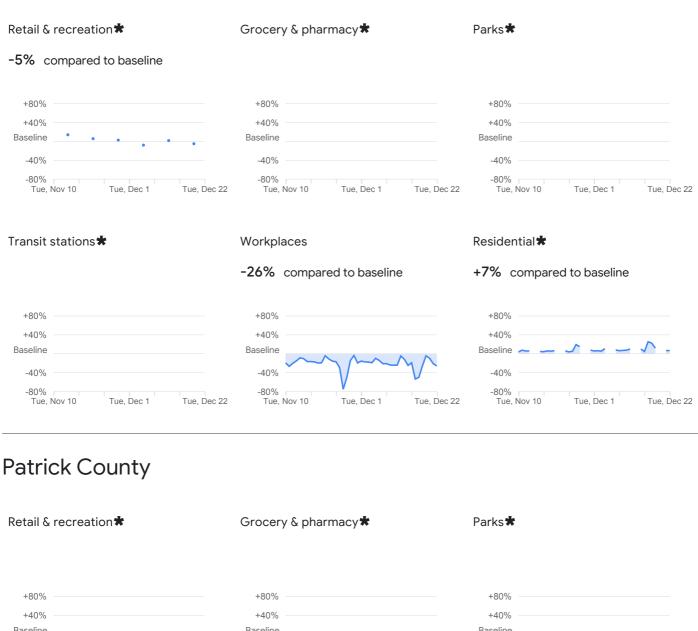
Tue, Nov 10

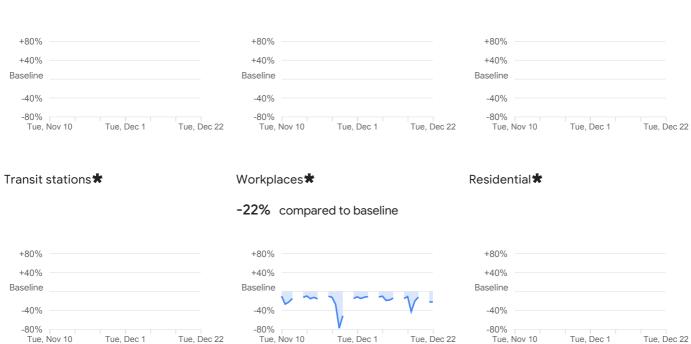
Tue, Dec 1

Baseline

^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

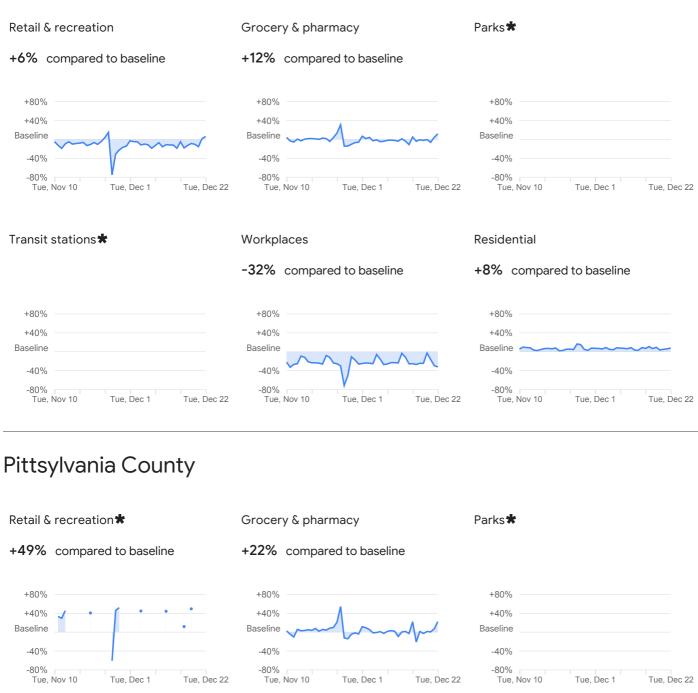
Page County

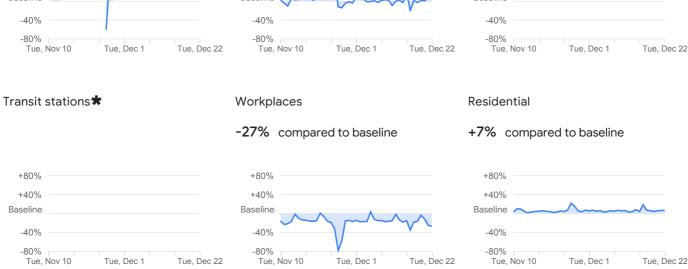




^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

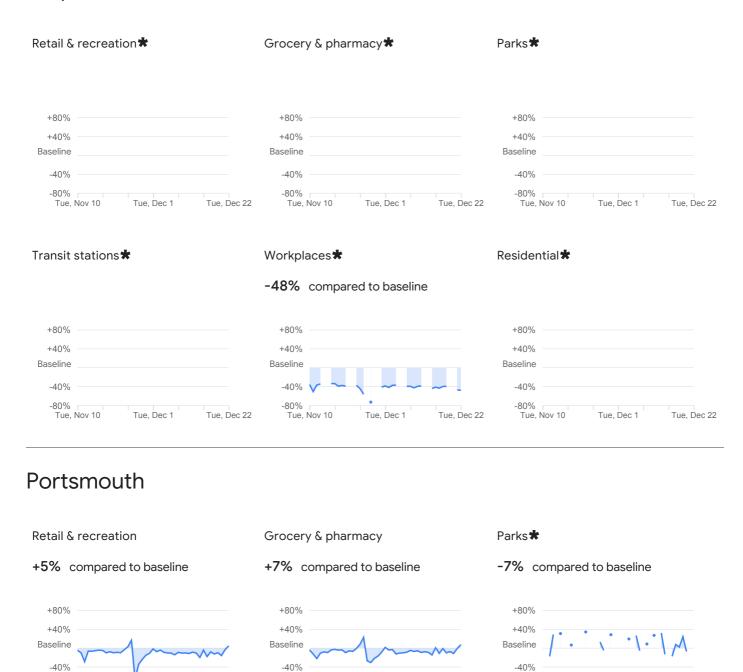
Petersburg

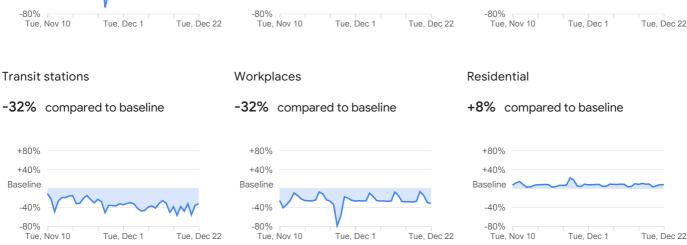




^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

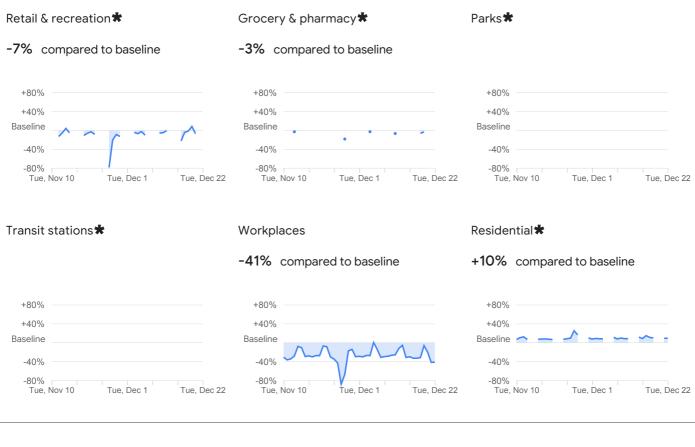
Poquoson



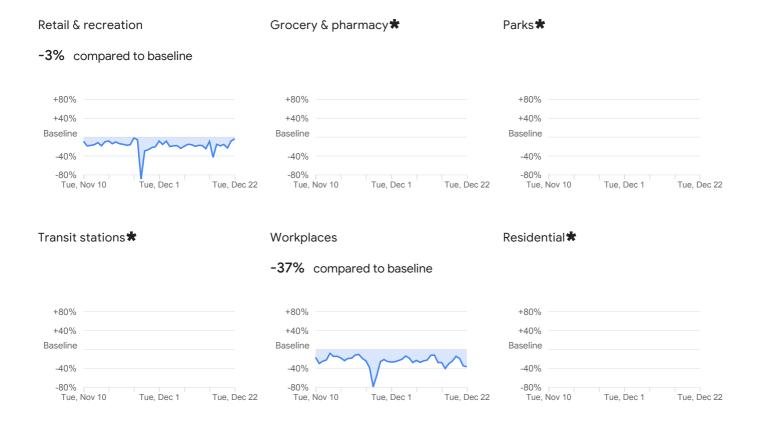


^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Powhatan County

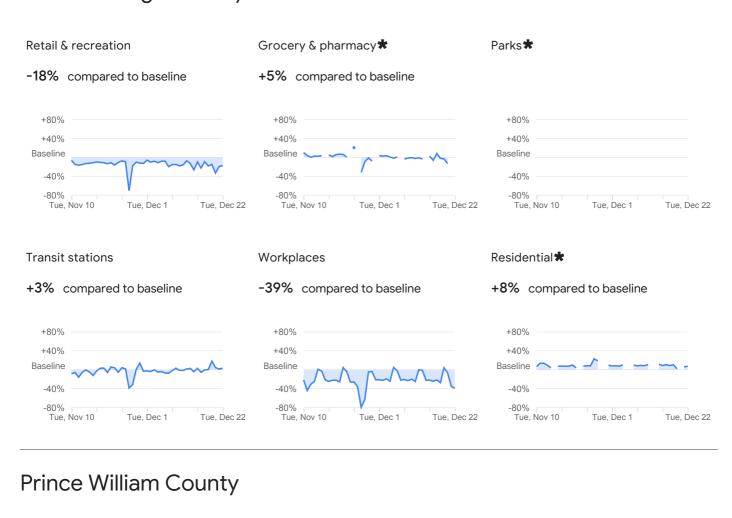


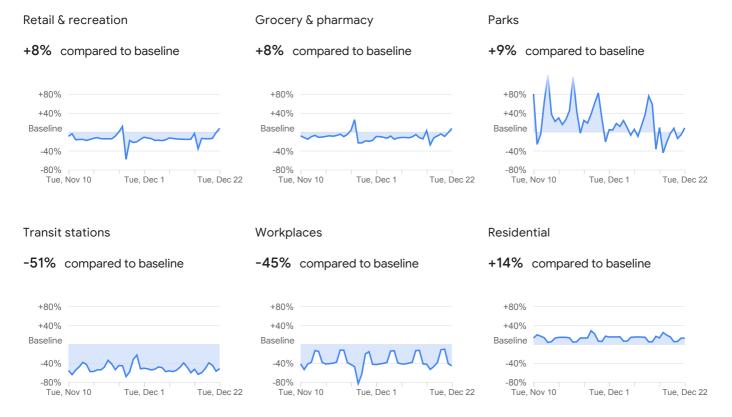
Prince Edward County



^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

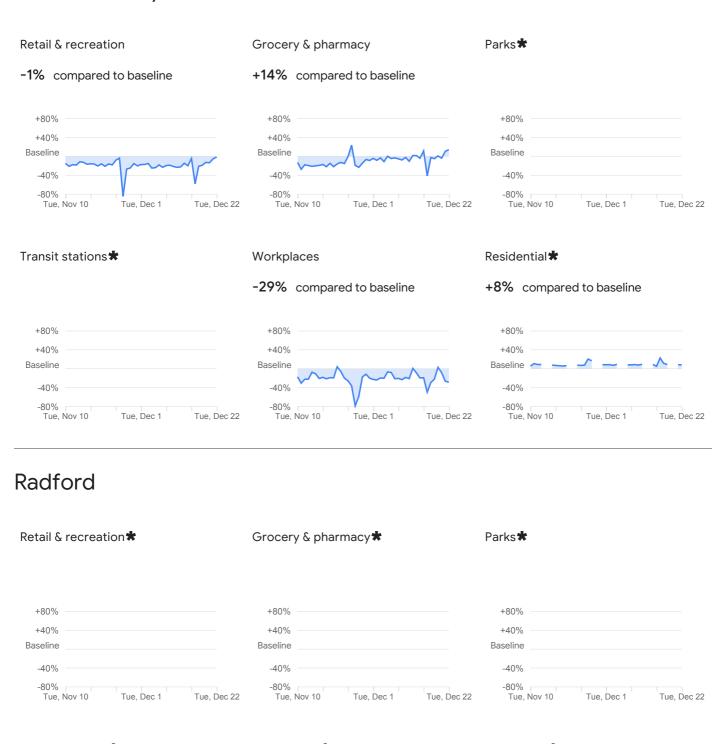
Prince George County

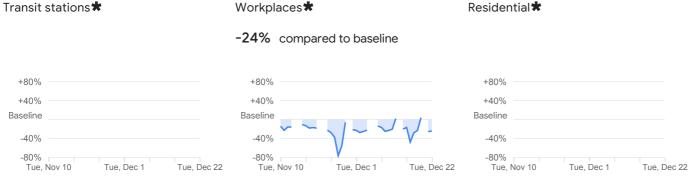




^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

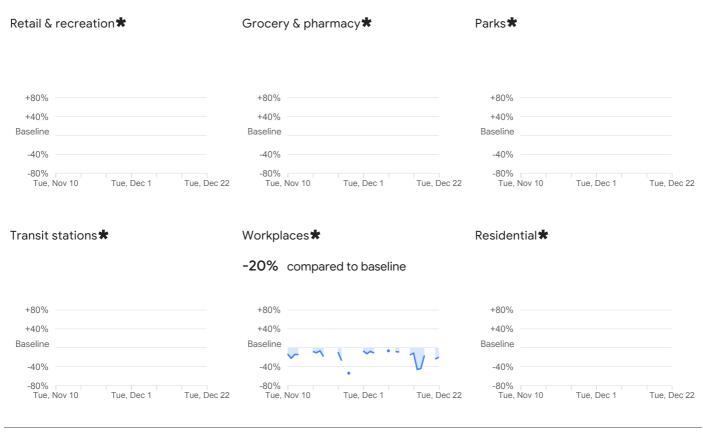
Pulaski County



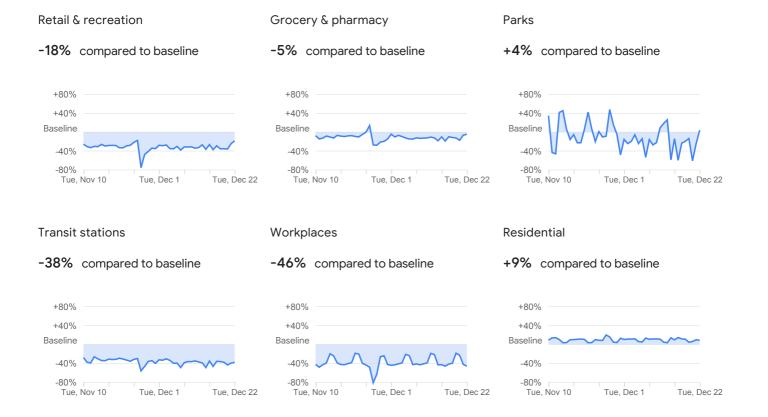


^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Rappahannock County

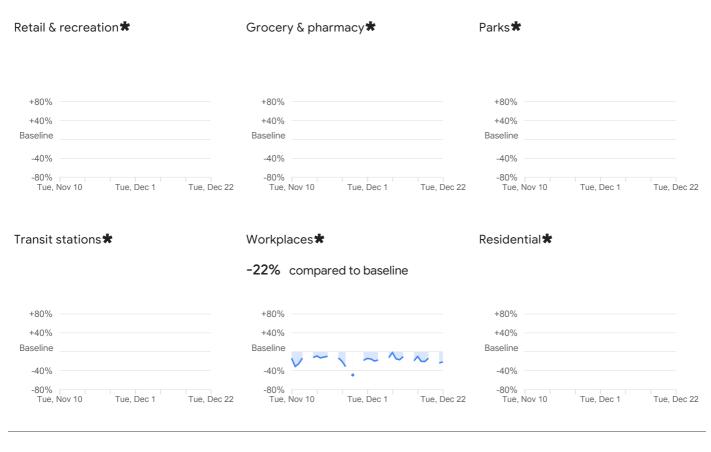


Richmond

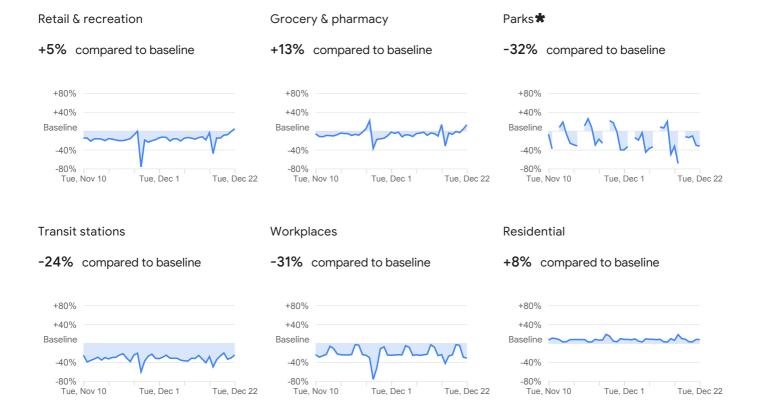


^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Richmond County

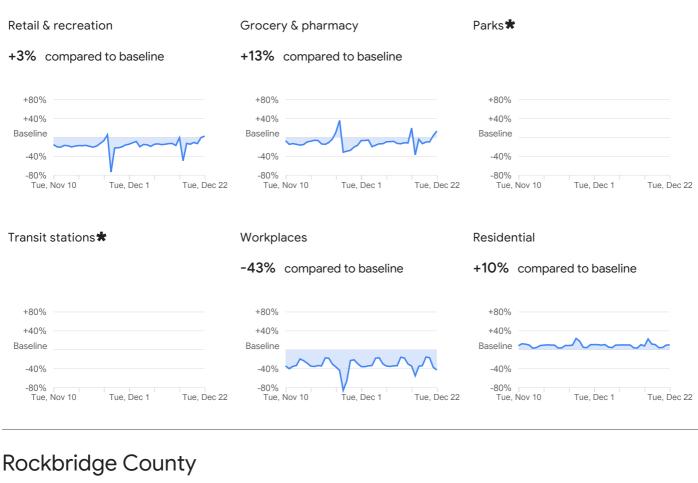


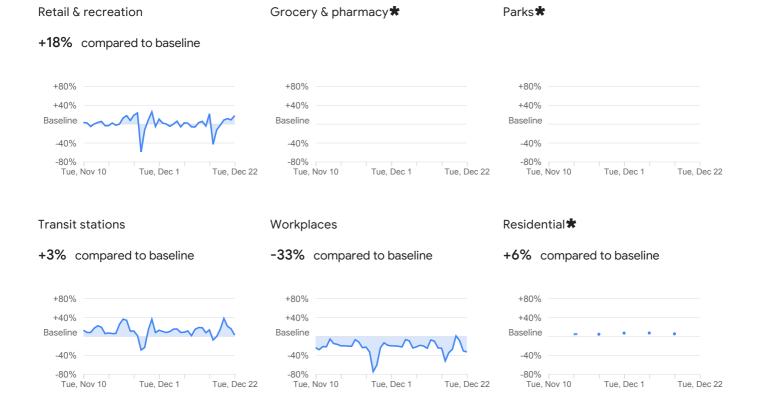
Roanoke



^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

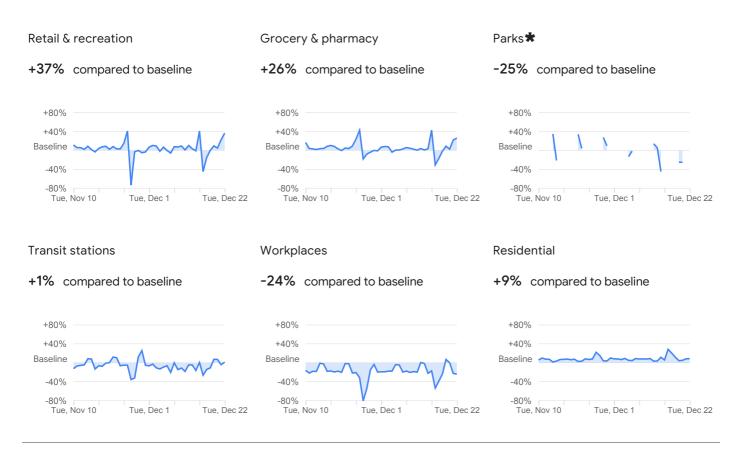
Roanoke County



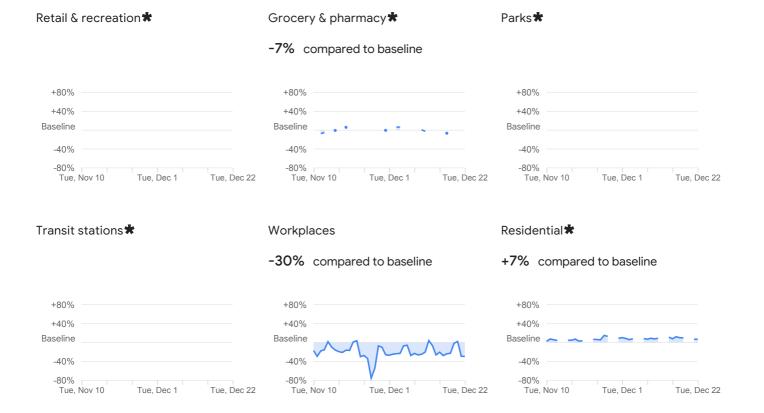


^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Rockingham County

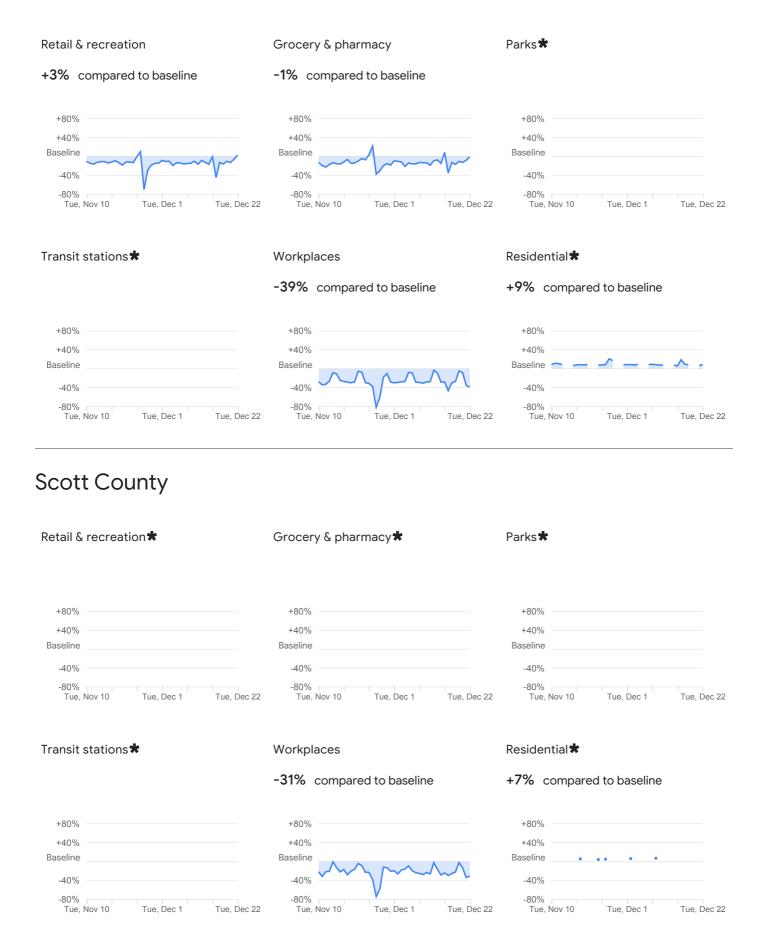


Russell County



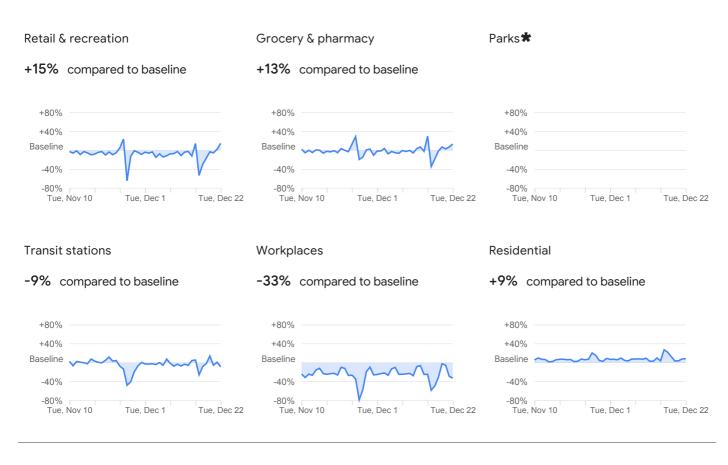
^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Salem

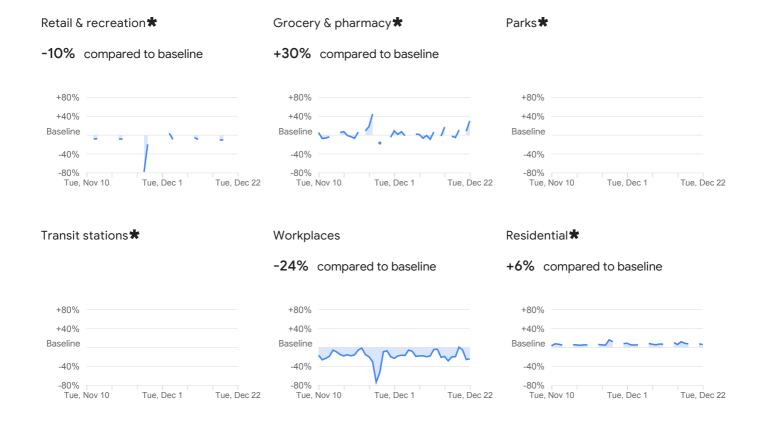


^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Shenandoah County

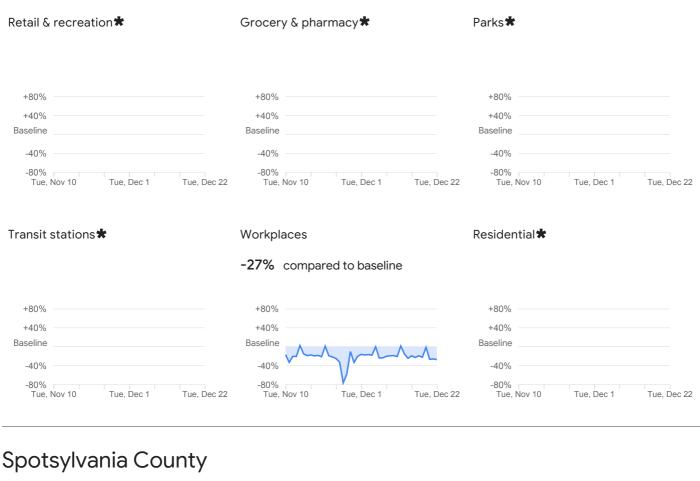


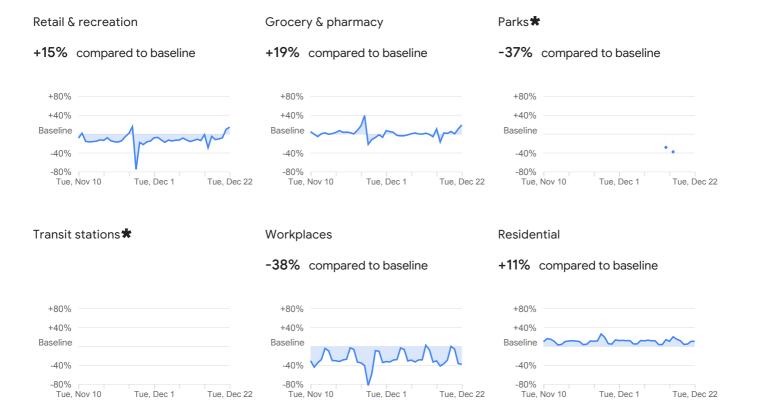
Smyth County



^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

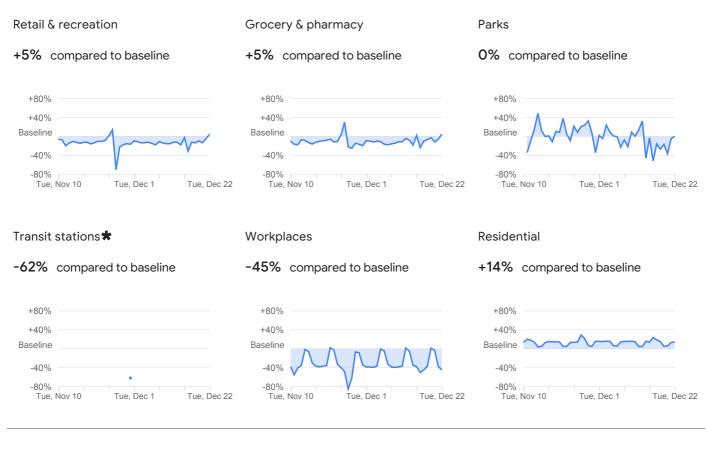
Southampton County



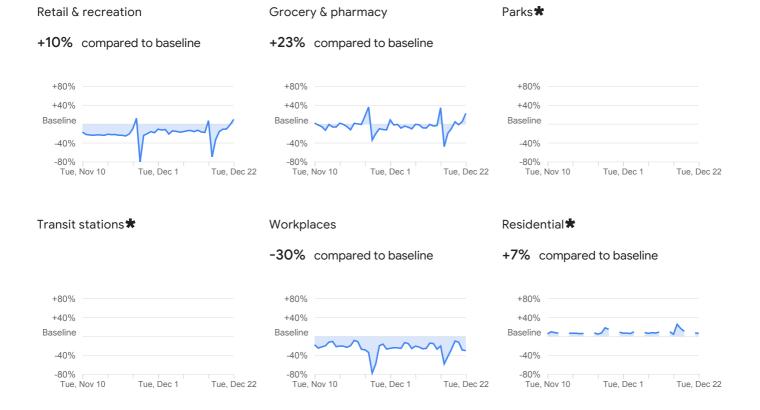


^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Stafford County



Staunton



^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Suffolk

-80%

Tue, Nov 10

Tue, Dec 1



Tue, Dec 22

-80%

Tue, Nov 10

Tue. Dec 1

-80%

Tue. Dec 22

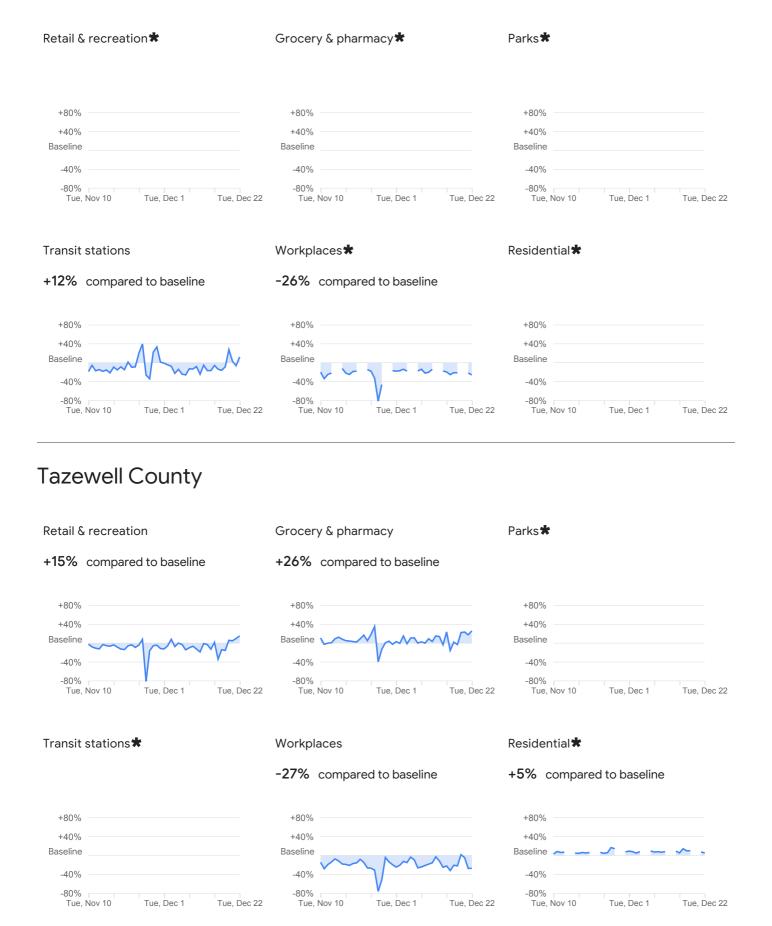
Tue, Nov 10

Tue, Dec 1

Tue, Dec 22

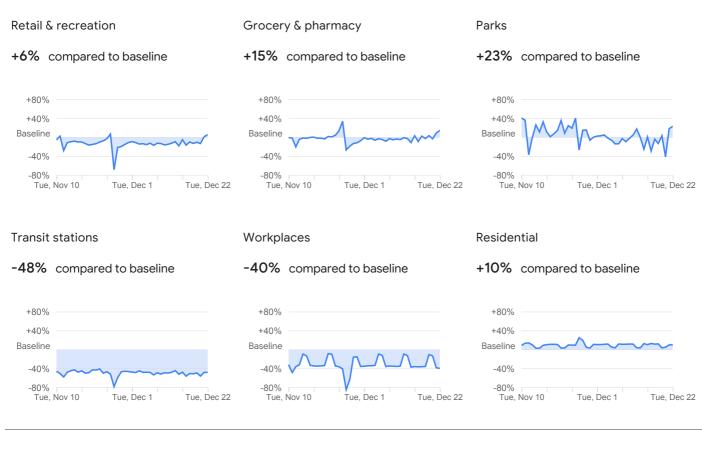
^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Sussex County

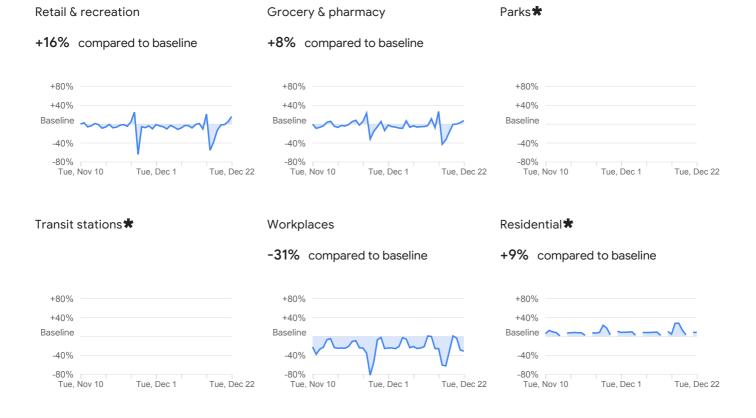


^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Virginia Beach

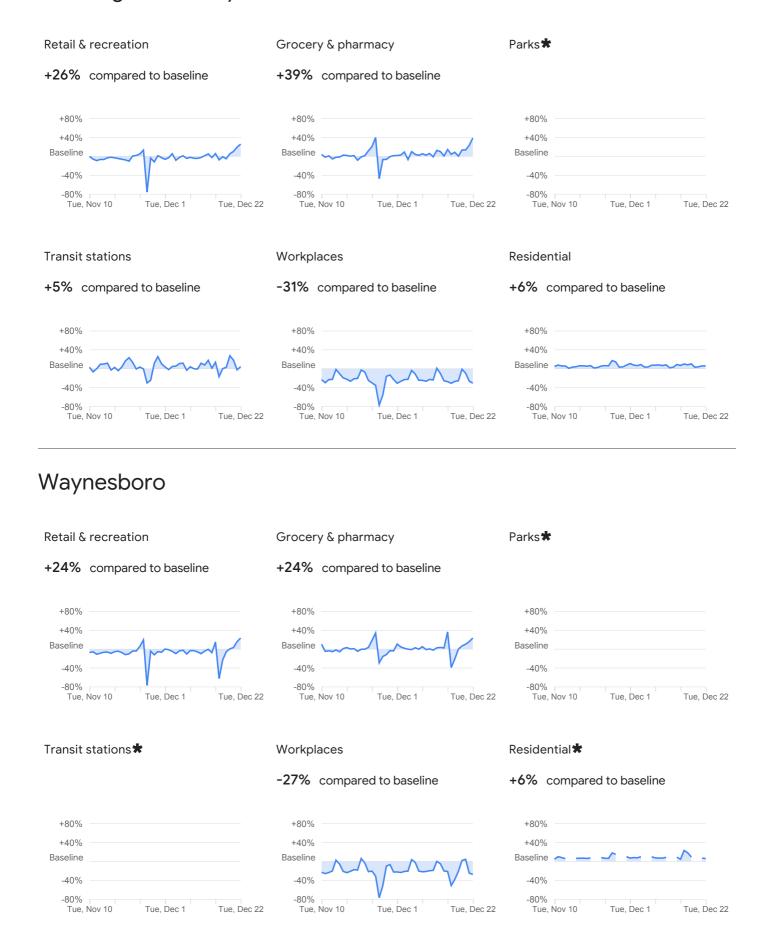


Warren County



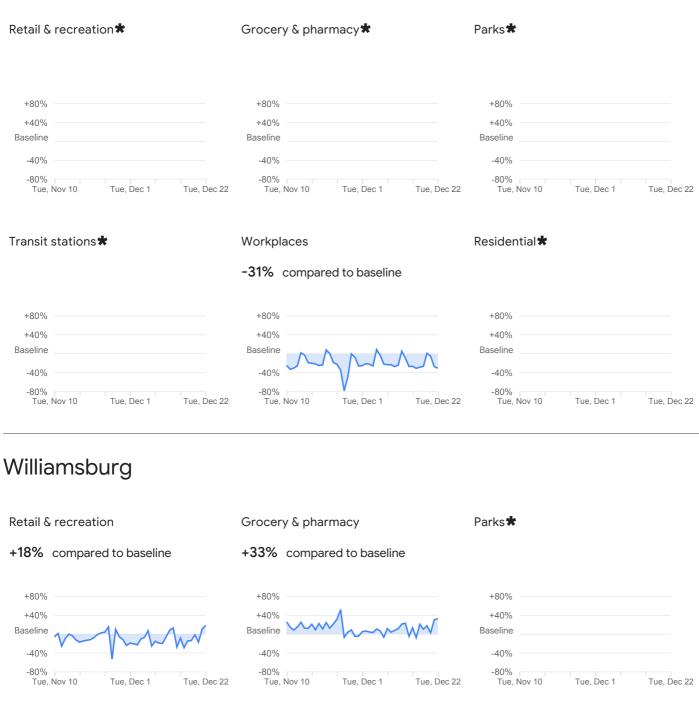
^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

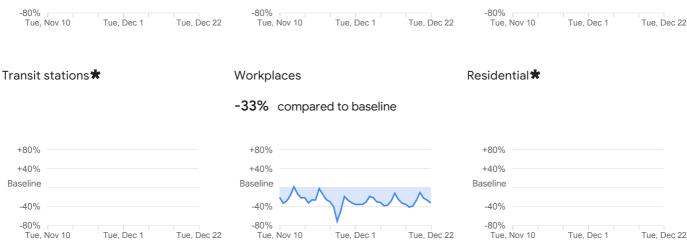
Washington County



^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

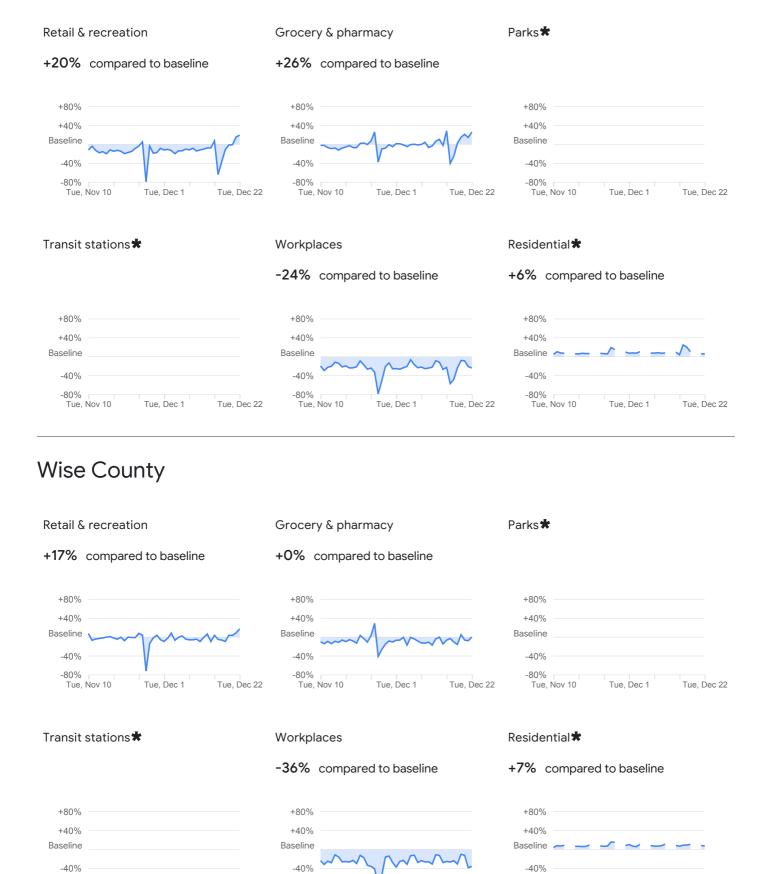
Westmoreland County





^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Winchester



Tue, Dec 22

-80%

Tue. Nov 10

Tue. Dec 1

-80%

Tue. Dec 22

Tue, Nov 10

Tue, Dec 1

Tue, Dec 22

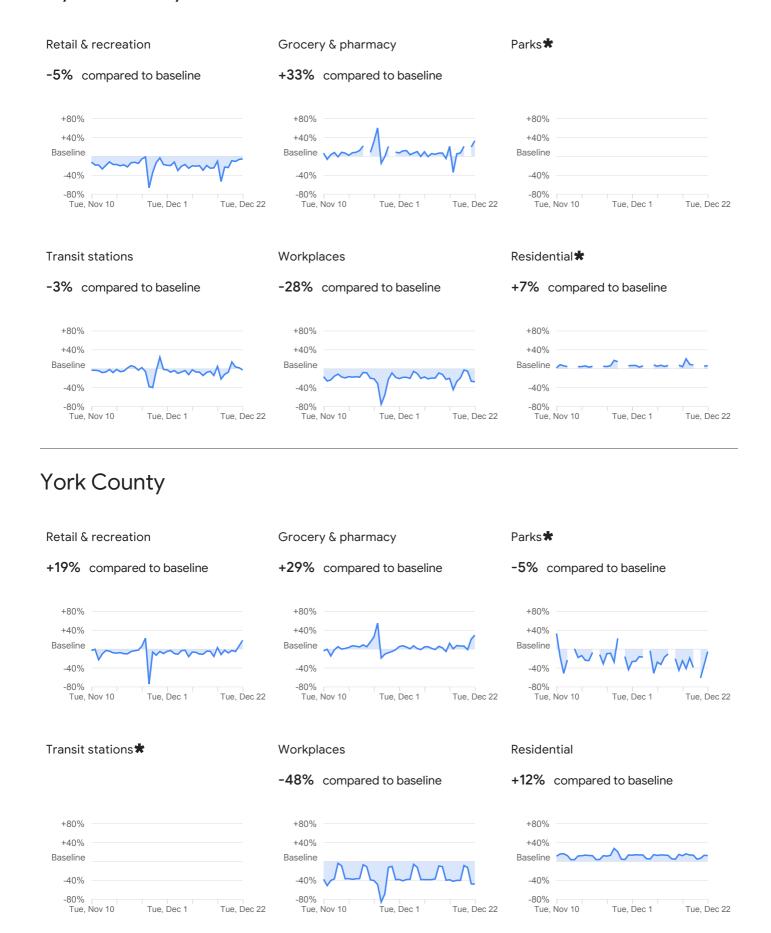
-80%

Tue, Nov 10

Tue, Dec 1

^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Wythe County



^{*} 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