

Virginia December 20, 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.

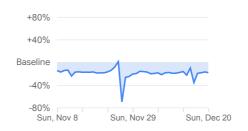
Location accuracy and the understanding of categorized places varies from region to region, so we don't recommend using this data to compare changes between countries, or between regions with different characteristics (e.g. rural versus urban areas).

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

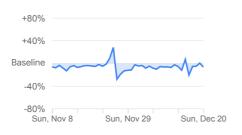


Mobility trends for places like restaurants, cafes, shopping centers, theme parks, museums, libraries, and movie theaters.

Grocery & pharmacy

-6%

compared to baseline

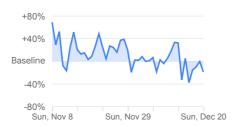


Mobility trends for places like grocery markets, food warehouses, farmers markets, specialty food shops, drug stores, and pharmacies.

Parks

-19%

compared to baseline

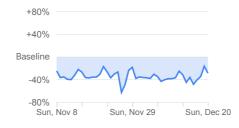


Mobility trends for places like national parks, public beaches, marinas, dog parks, plazas, and public gardens.

Transit stations

-28%

compared to baseline



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

Workplaces

-12%

compared to baseline

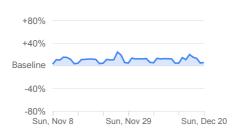


Mobility trends for places of work.

Residential

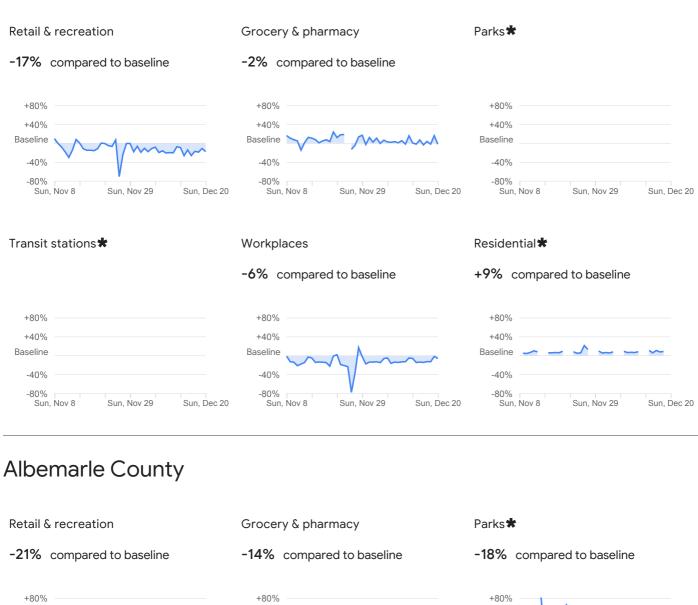
+6%

compared to baseline



Mobility trends for places of residence.

Accomack County





Sun. Nov 29

Sun. Dec 20

Sun, Nov 29

Sun. Nov 8

Sun, Dec 20

Sun. Nov 8

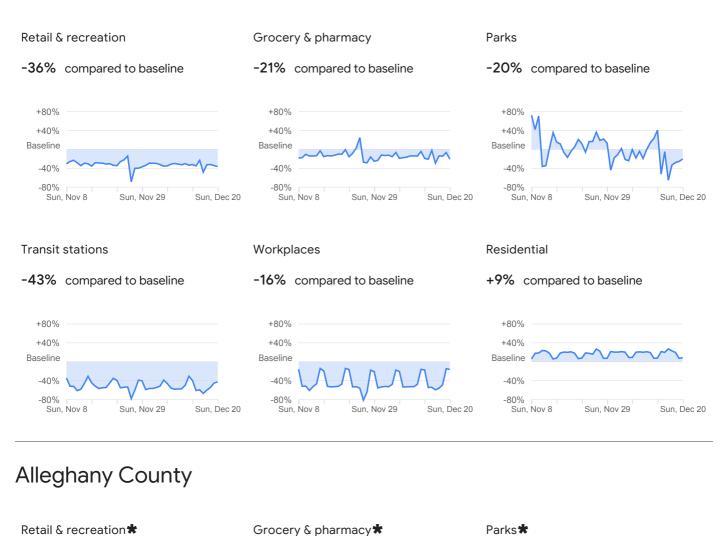
Sun. Dec 20

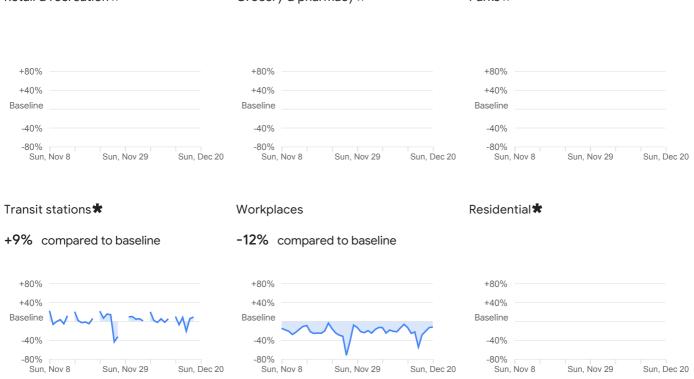
Sun. Nov 8

Sun. Nov 29

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

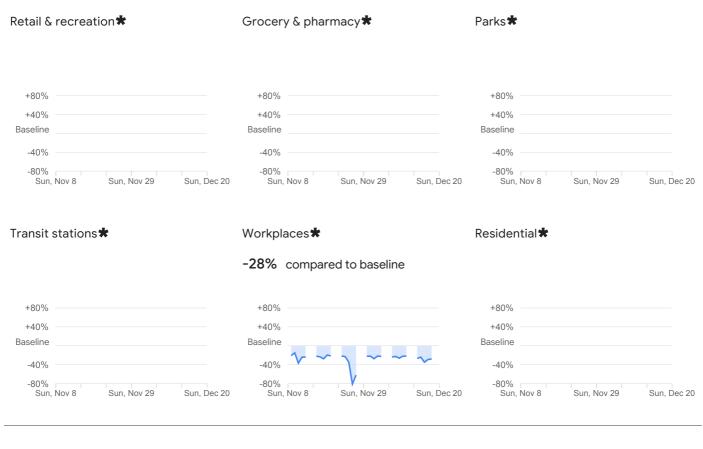
Alexandria



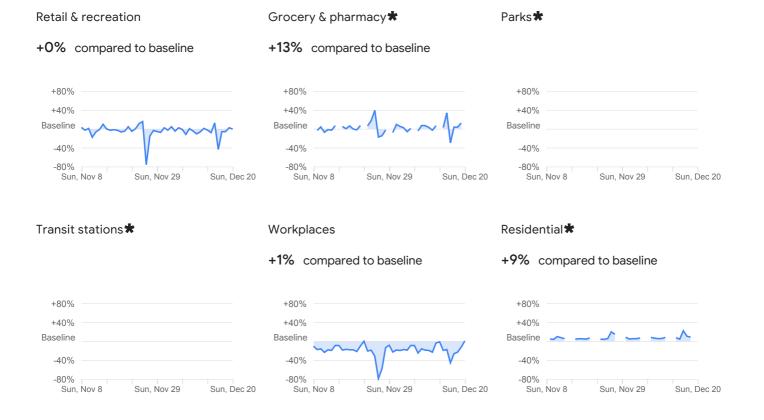


^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Amelia County

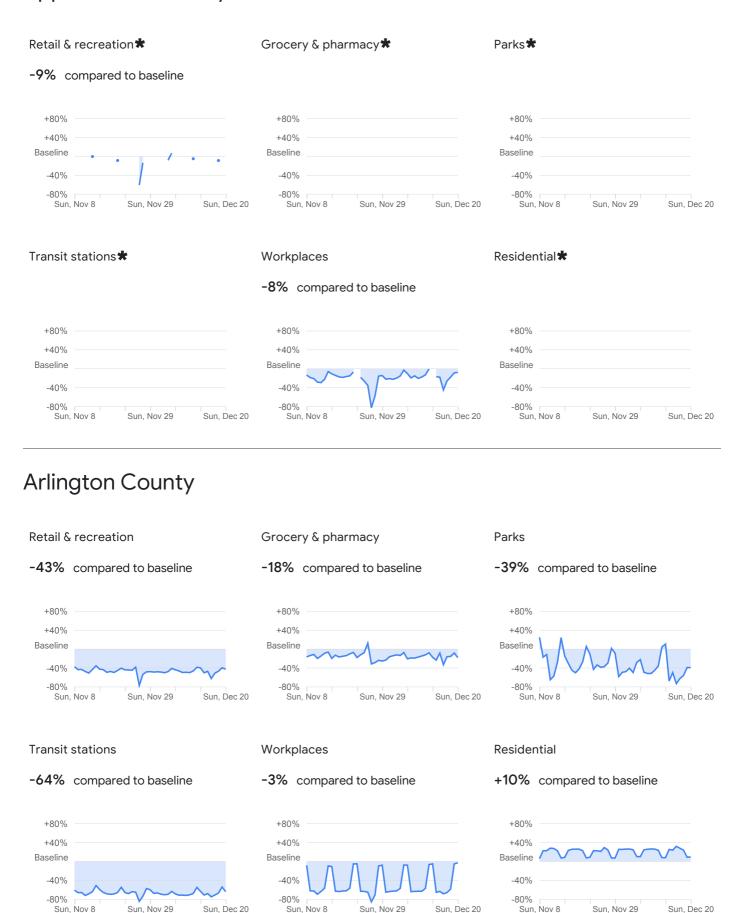


Amherst County



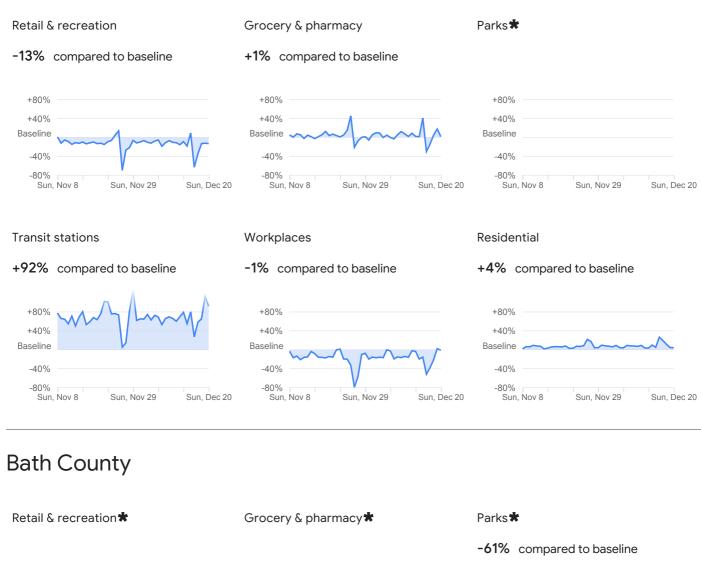
^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

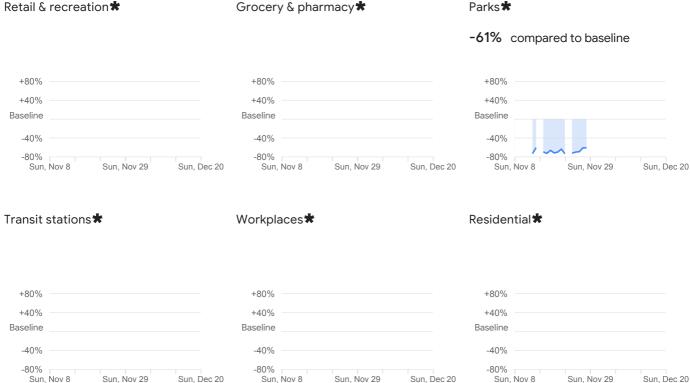
Appomattox County



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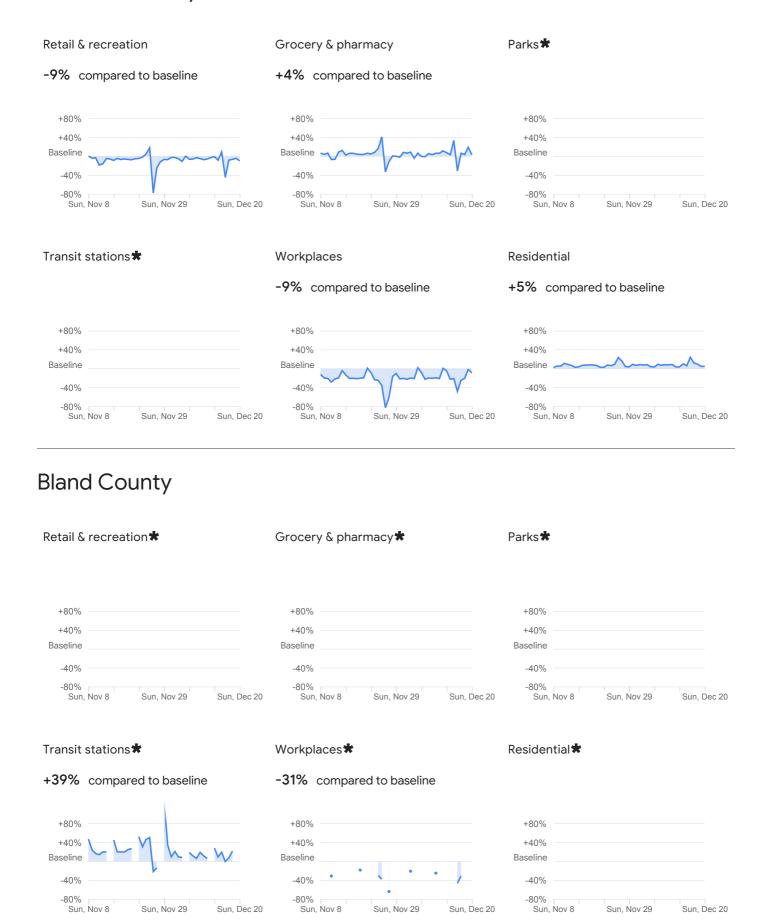
Augusta County





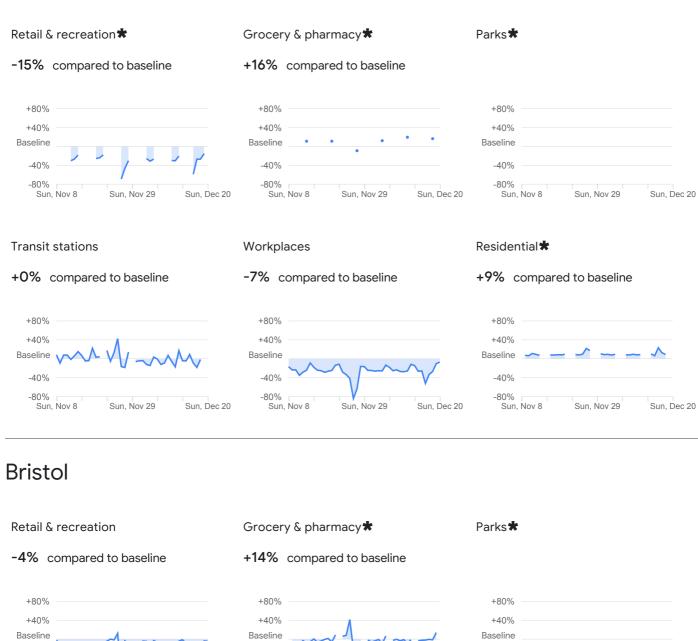
^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

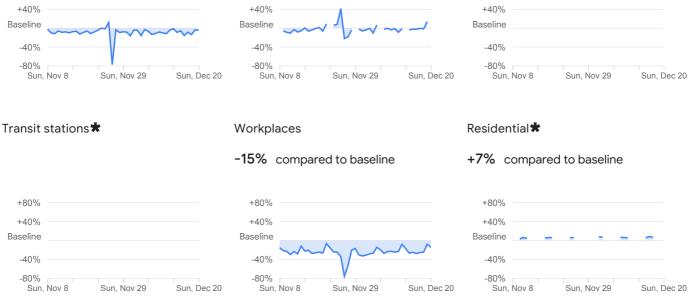
Bedford County



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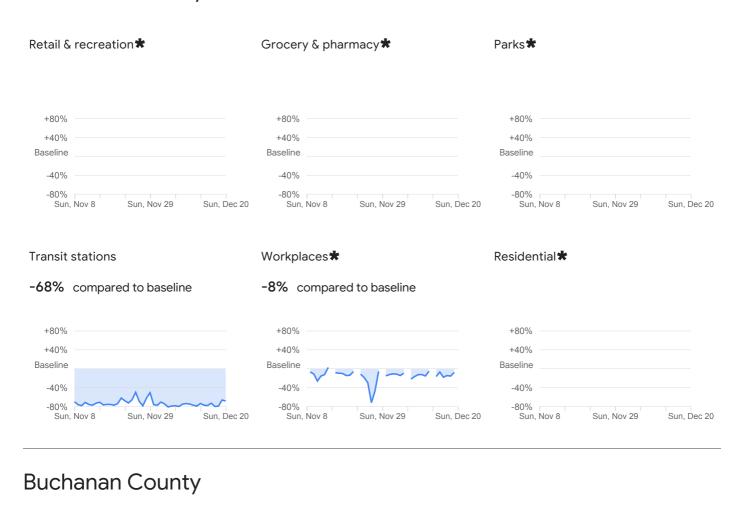
Botetourt County

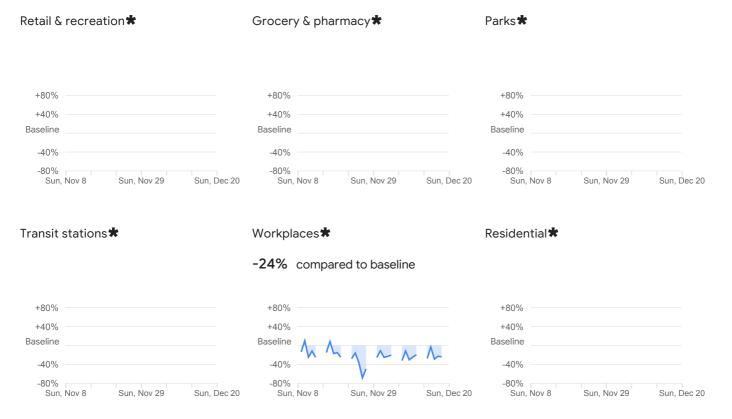




^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

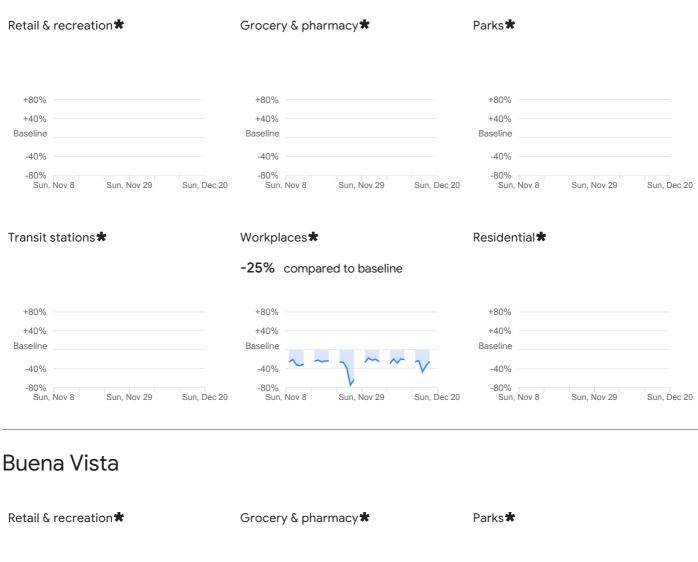
Brunswick County

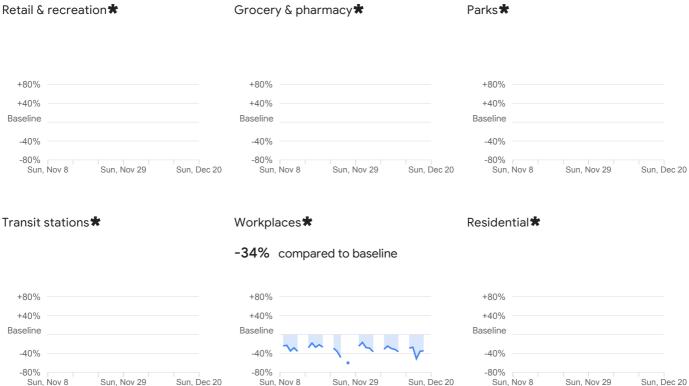




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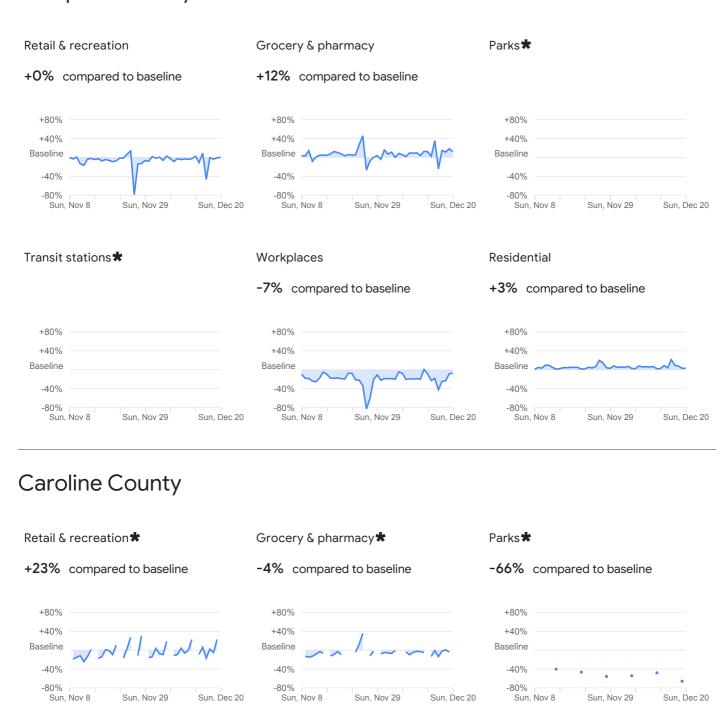
Buckingham County

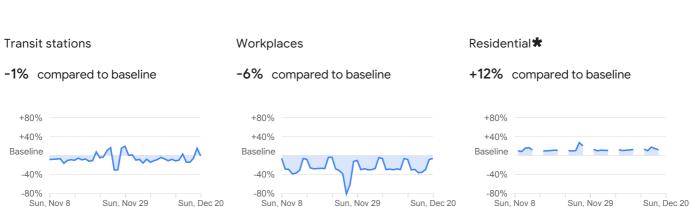




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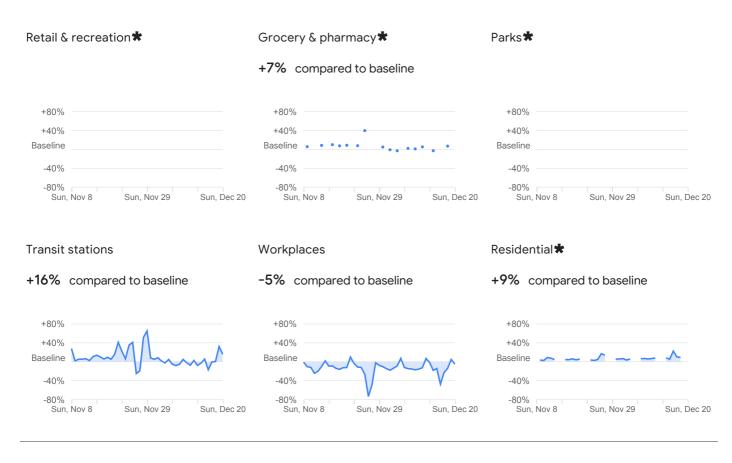
Campbell County



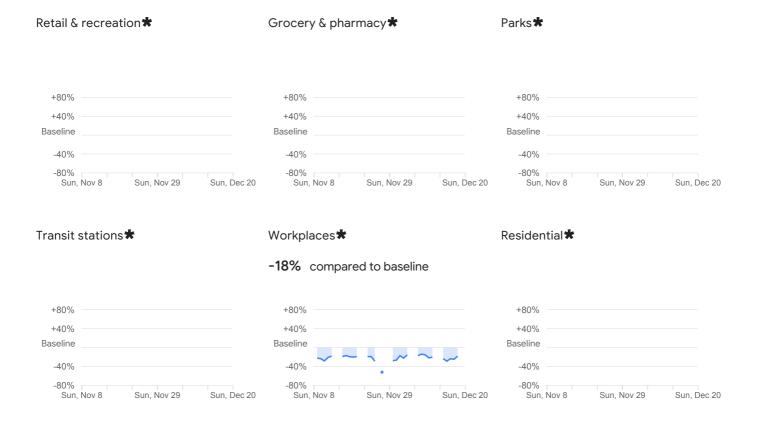


^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Carroll County

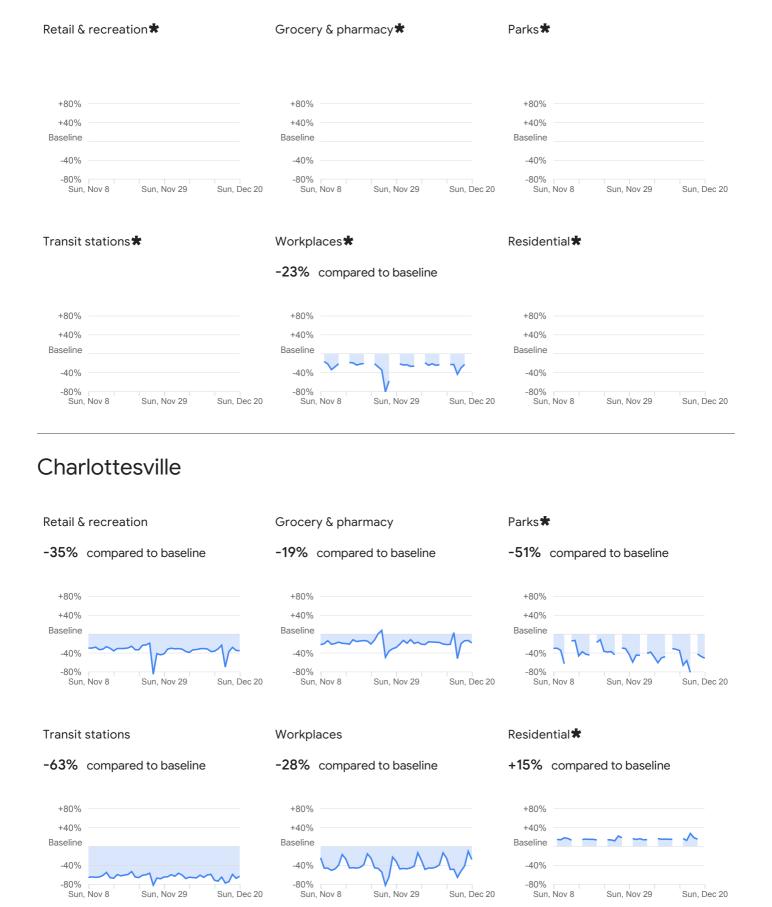


Charles City County



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Charlotte County

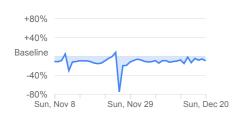


^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Chesapeake

Retail & recreation

-9% compared to baseline



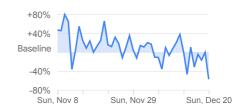
Grocery & pharmacy

+1% compared to baseline



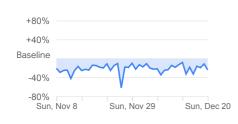
Parks

-57% compared to baseline



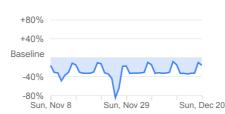
Transit stations

-23% compared to baseline



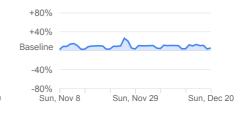
Workplaces

-16% compared to baseline



Residential

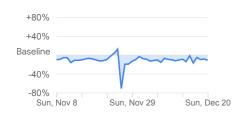
+6% compared to baseline



Chesterfield County

Retail & recreation

-11% compared to baseline



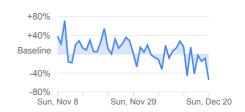
Grocery & pharmacy

-11% compared to baseline



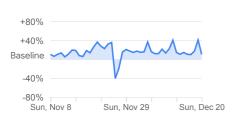
Parks

-55% compared to baseline



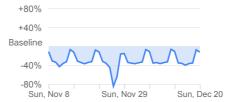
Transit stations

+11% compared to baseline



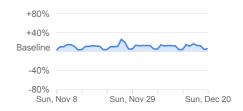
Workplaces

-12% compared to baseline

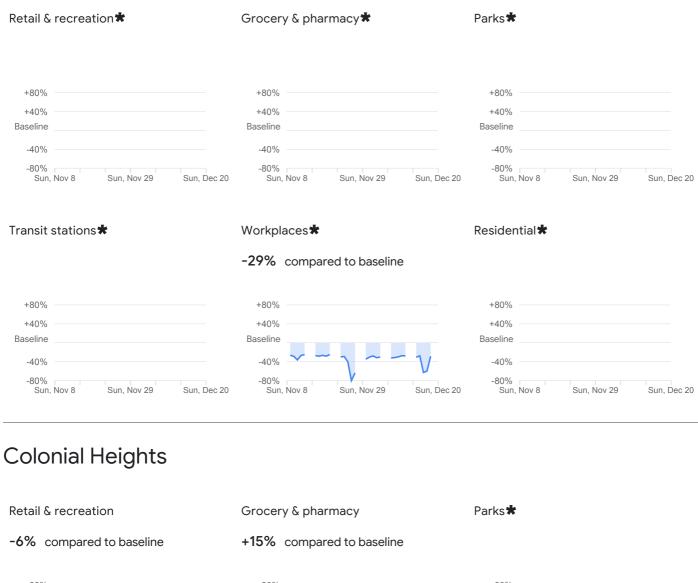


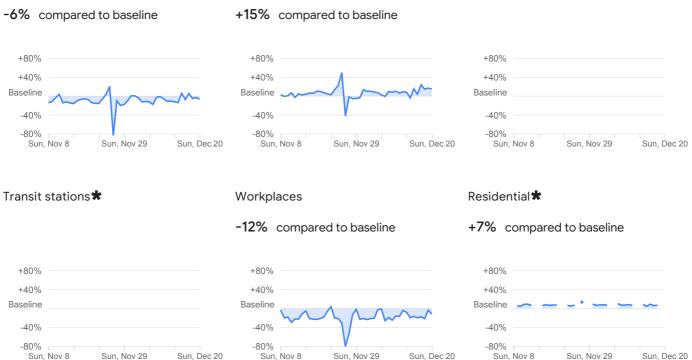
Residential

+6% compared to baseline



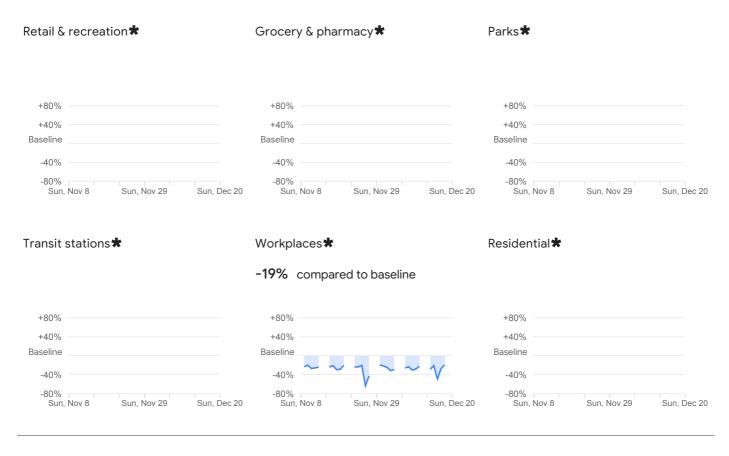
Clarke County



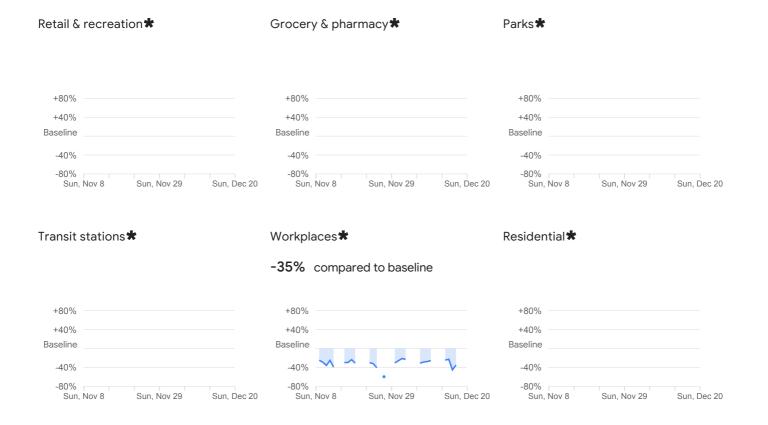


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Covington

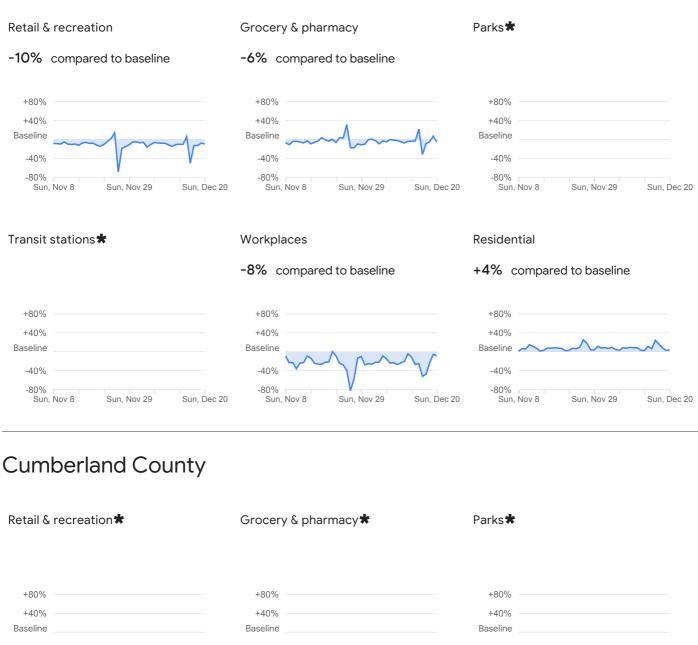


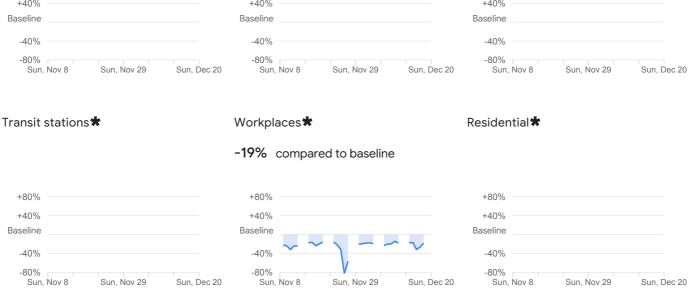
Craig County



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Culpeper County





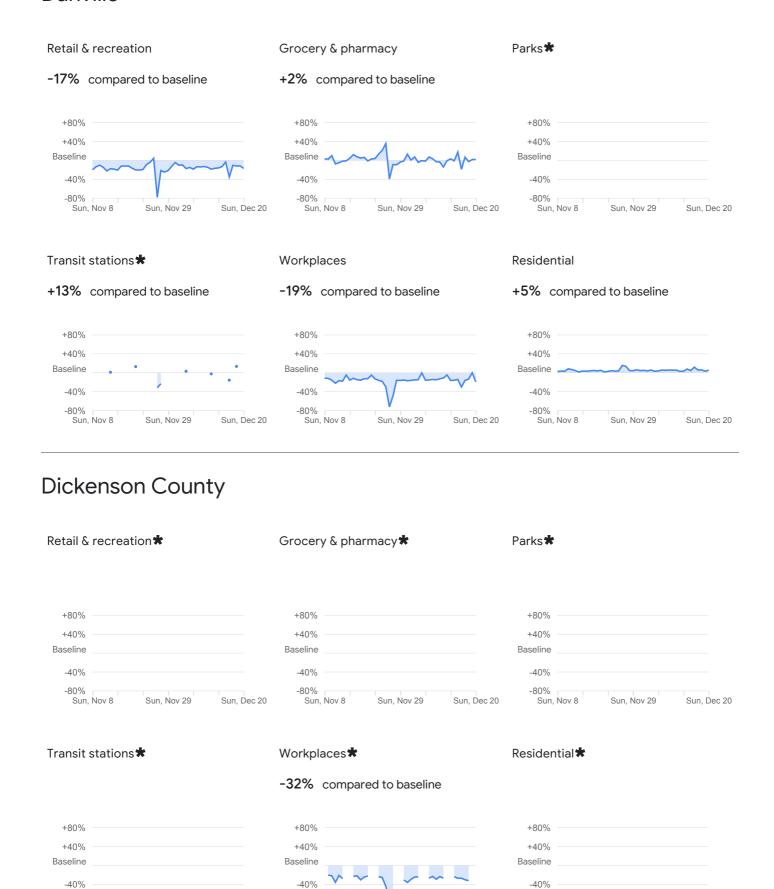
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Danville

-80%

Sun, Nov 8

Sun, Nov 29



Sun, Dec 20

-80%

Sun. Nov 8

Sun. Nov 29

-80%

Sun. Dec 20

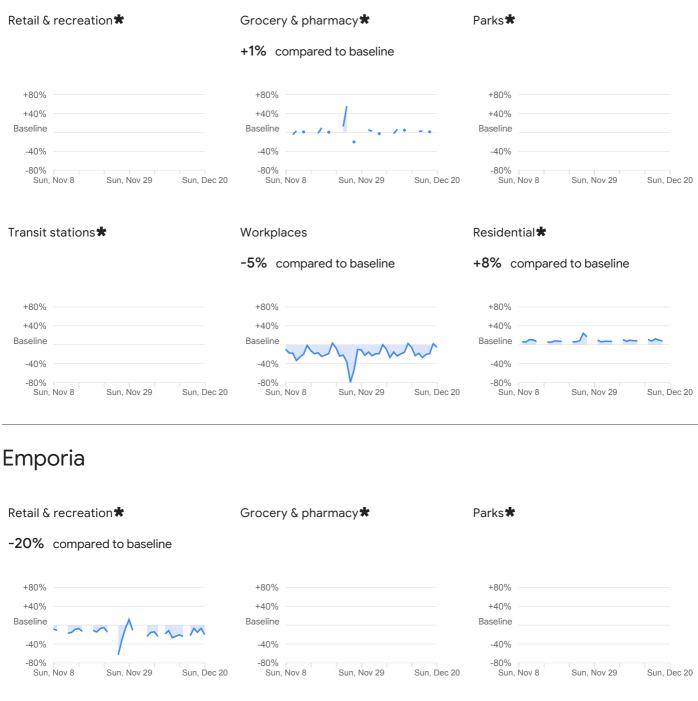
Sun, Nov 8

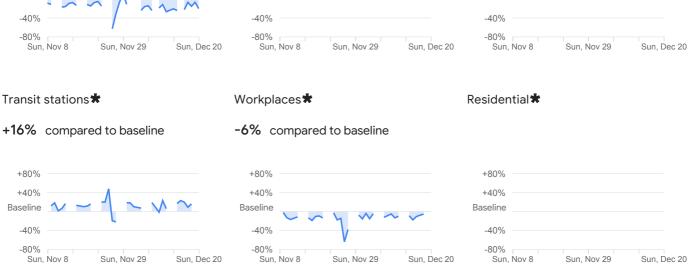
Sun, Nov 29

Sun, Dec 20

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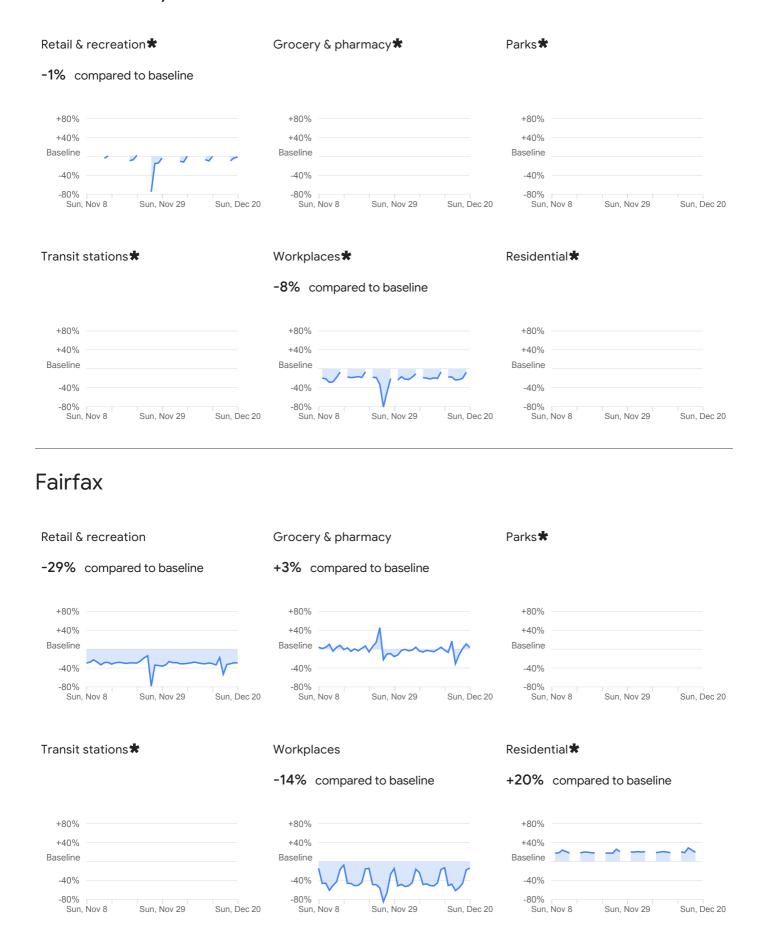
Dinwiddie County





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Essex County



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Fairfax County

Transit stations*

+80%

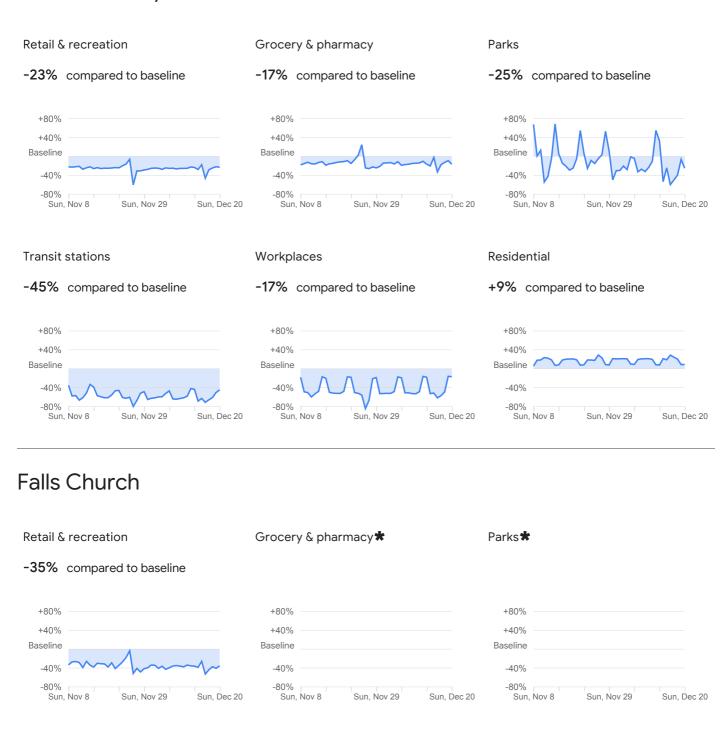
+40%

-80%

Sun. Nov 8

Sun, Nov 29

Baseline



Sun, Dec 20

Workplaces*

+80%

+40% Baseline

-40%

-80%

Sun. Nov 8

-60% compared to baseline

Sun, Nov 29

Residential*

+80% +40%

Baseline

-40%

-80%

Sun. Nov 8

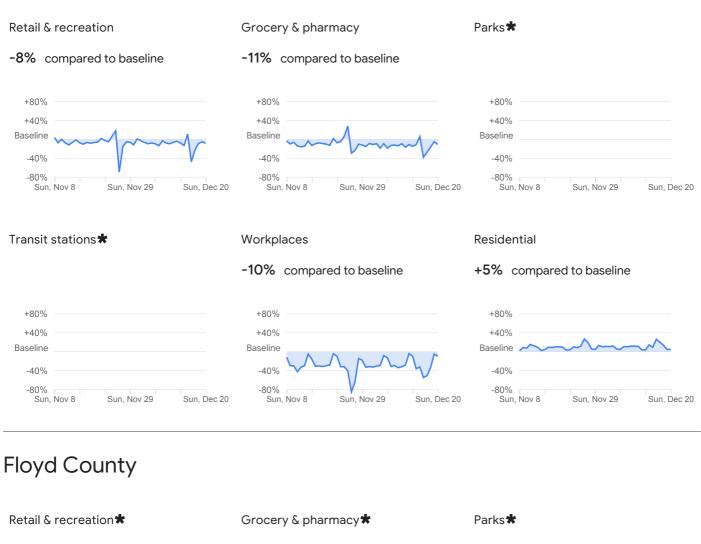
Sun. Dec 20

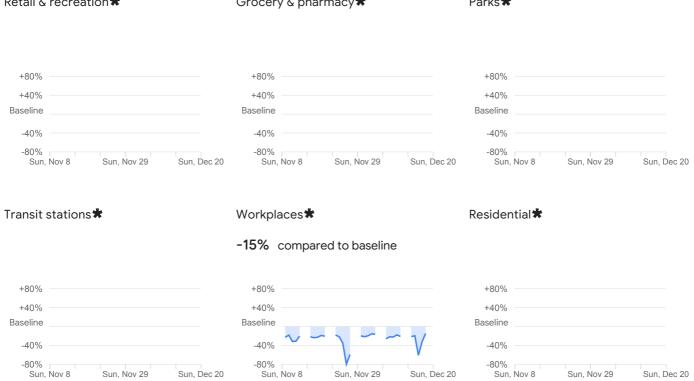
Sun, Nov 29

Sun, Dec 20

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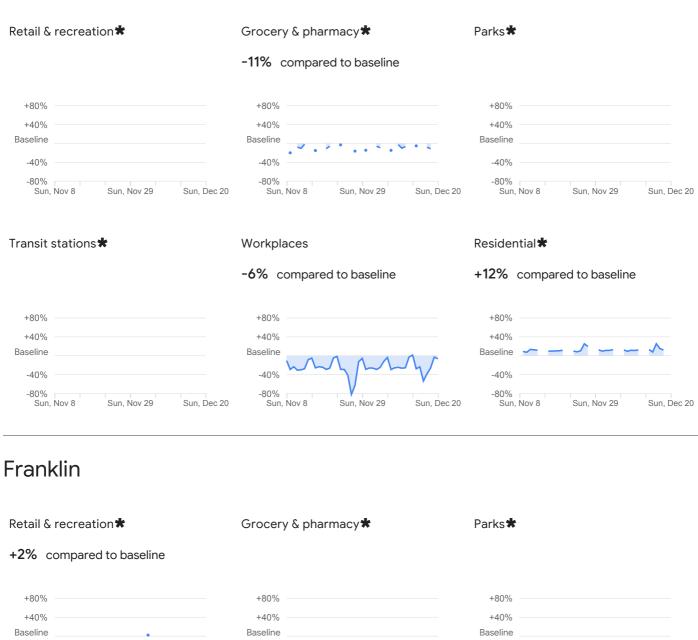
Fauquier County

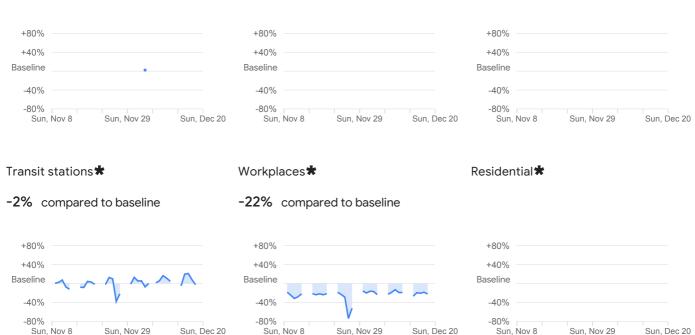




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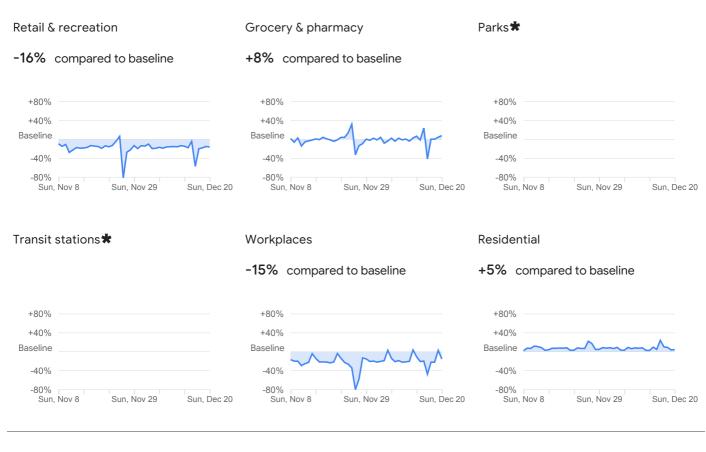
Fluvanna County



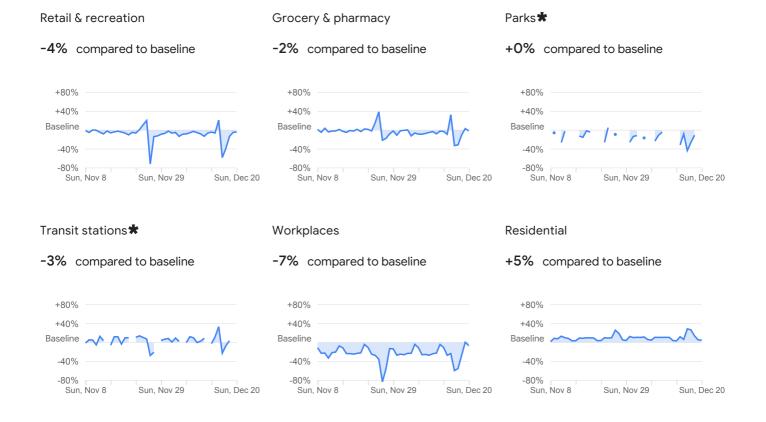


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Franklin County

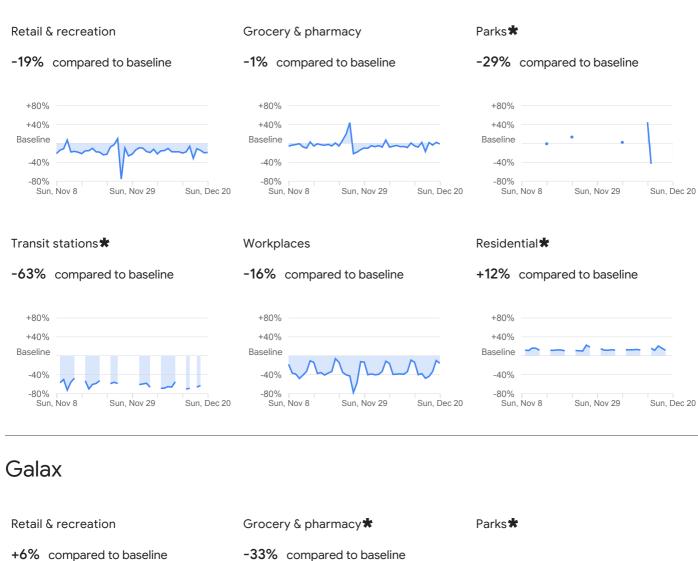


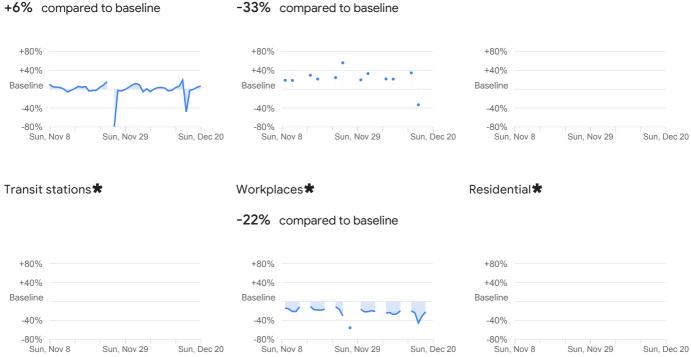
Frederick County



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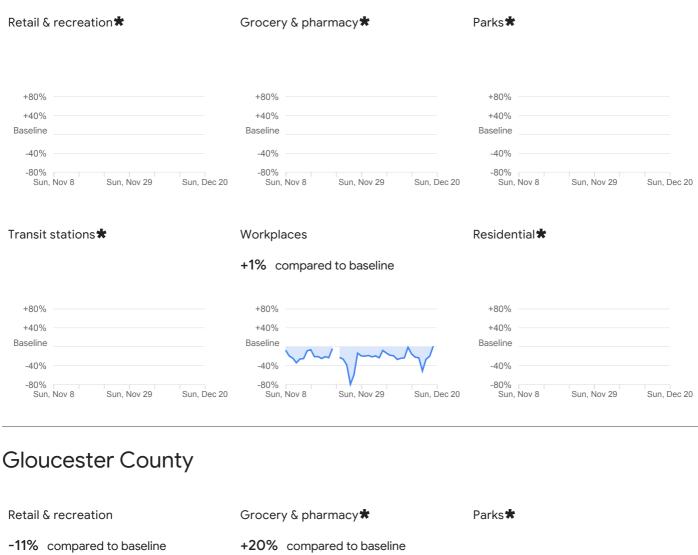
Fredericksburg

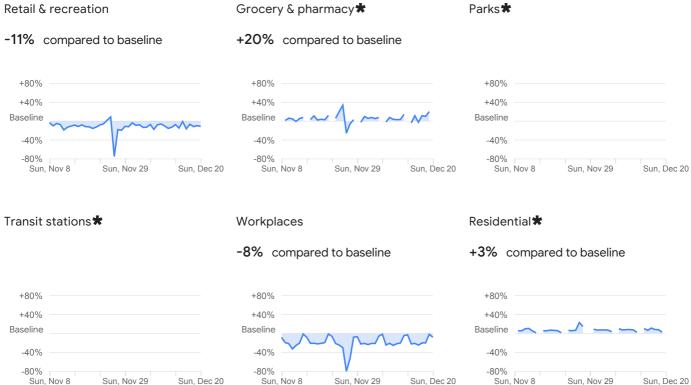




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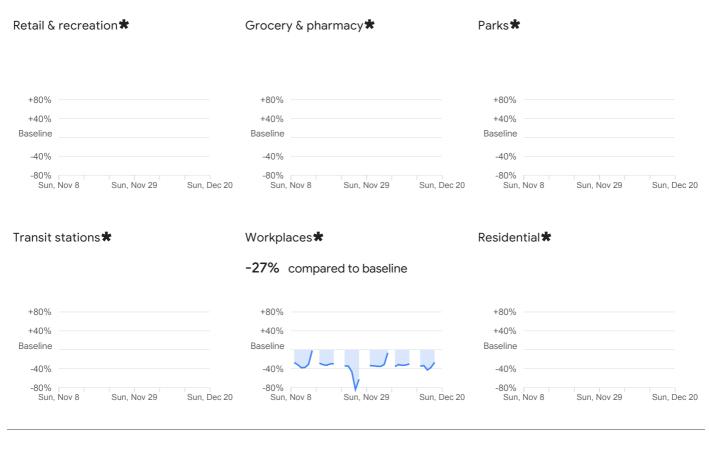
Giles County



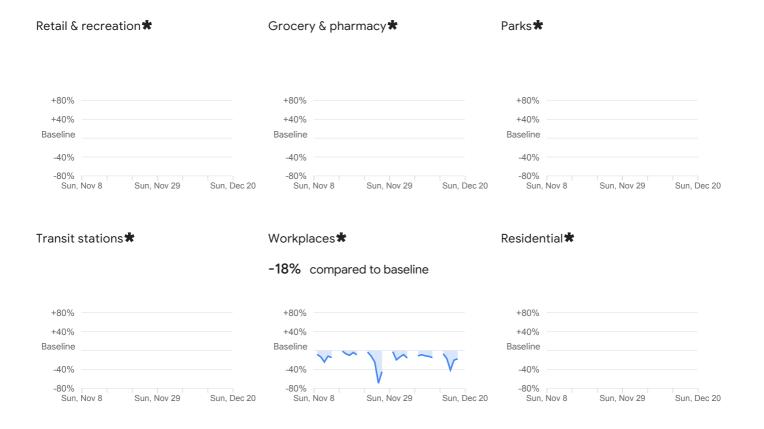


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Goochland County



Grayson County



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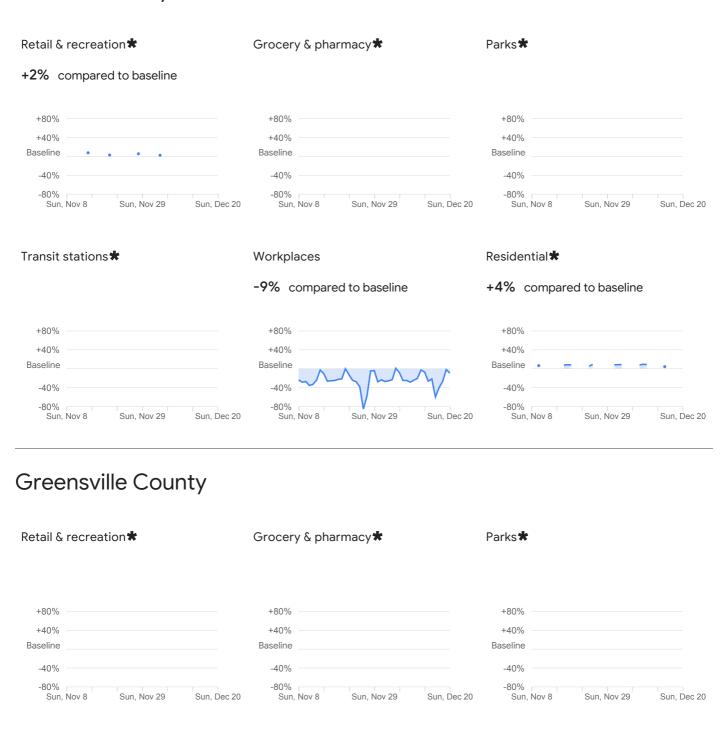
Greene County

Transit stations

+80%

+40%

+13% compared to baseline





Residential*

+80%

+40%

Workplaces*

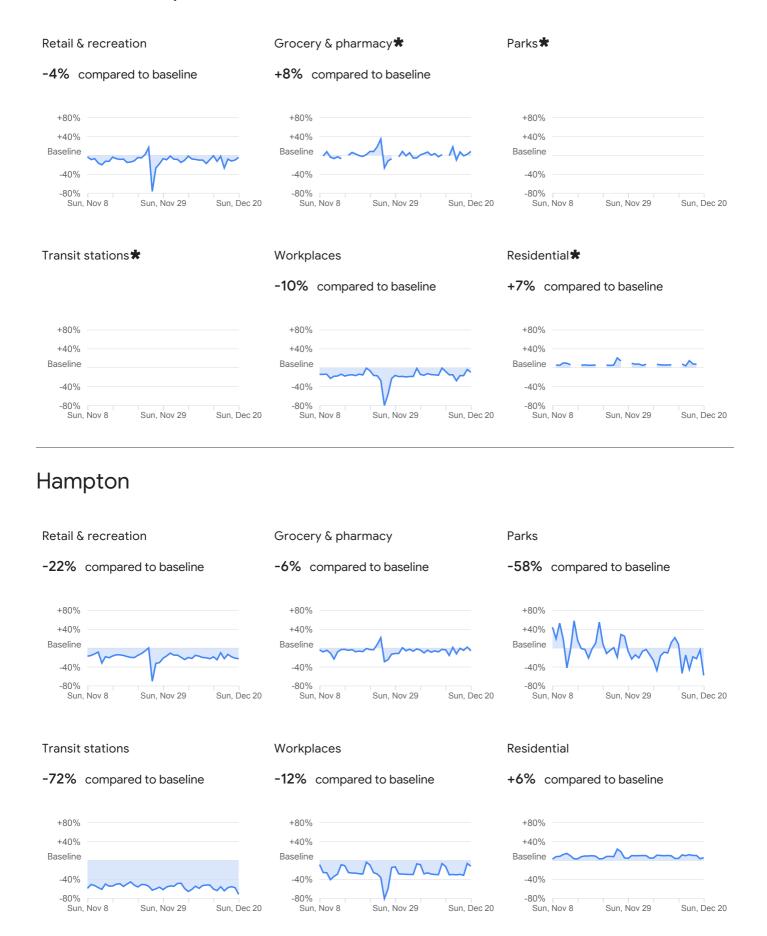
+80%

+40%

-18% compared to baseline

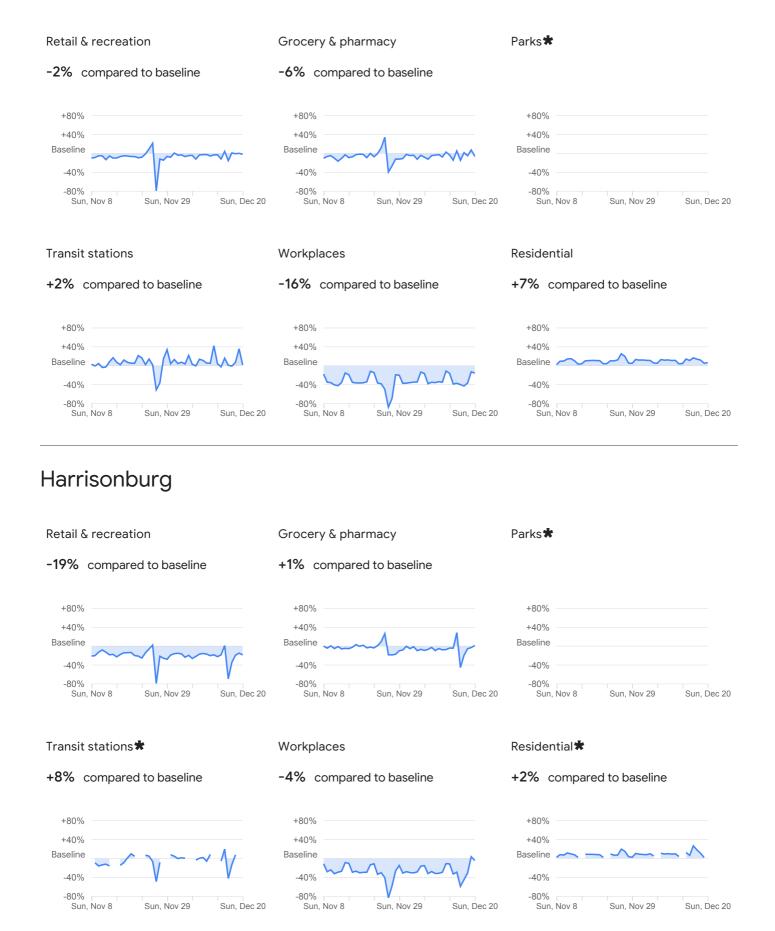
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Halifax County



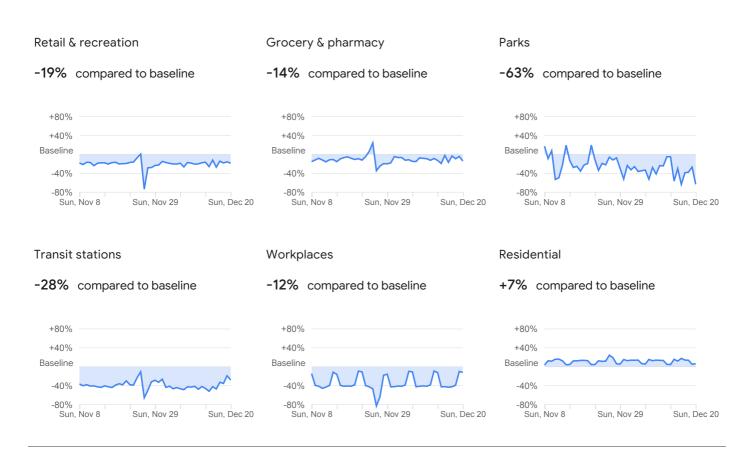
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Hanover County

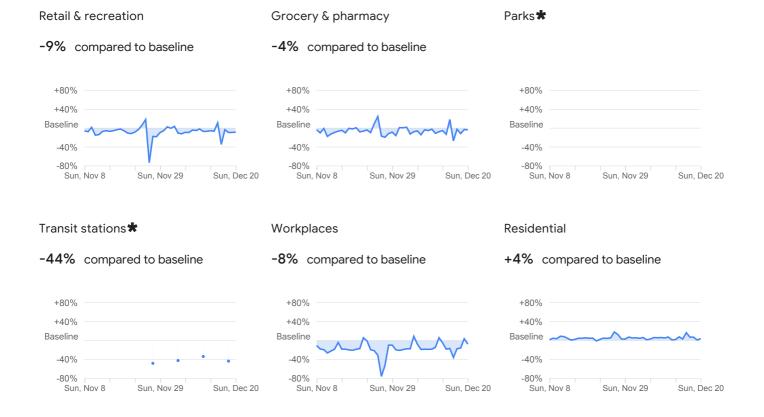


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Henrico County

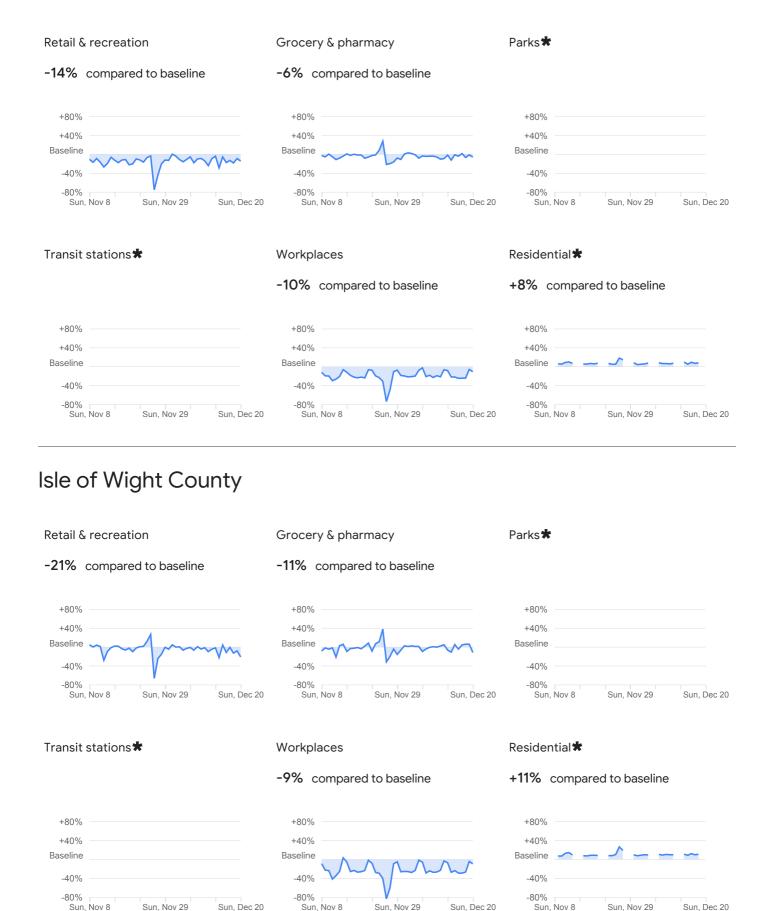


Henry County



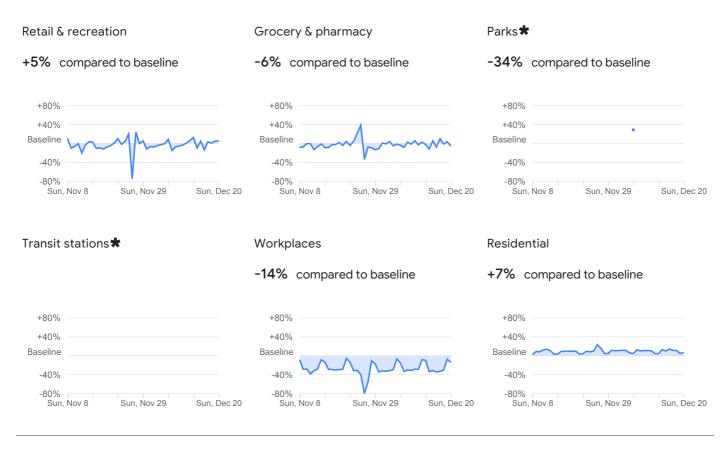
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Hopewell

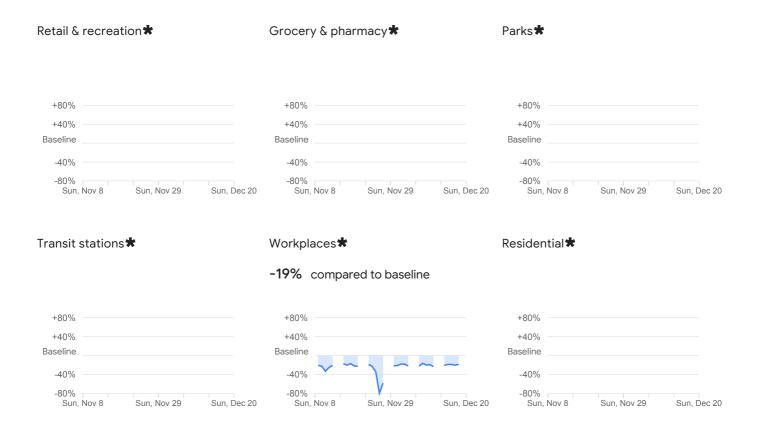


^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

James City County

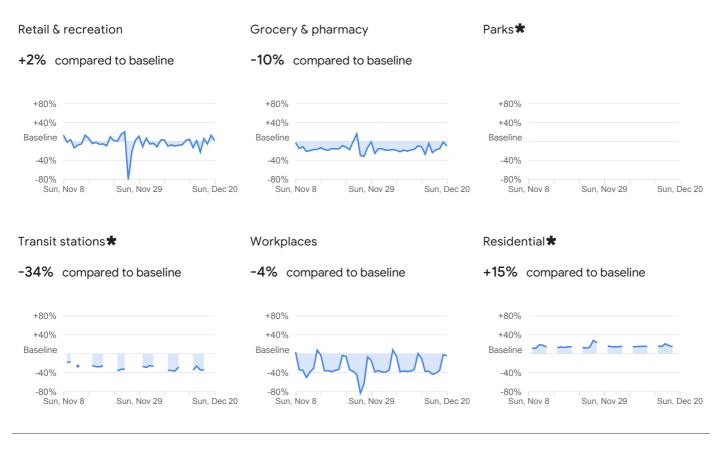


King and Queen County

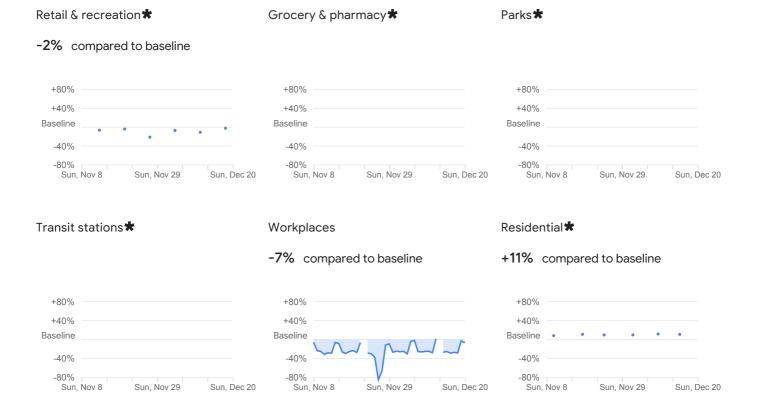


^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

King George County

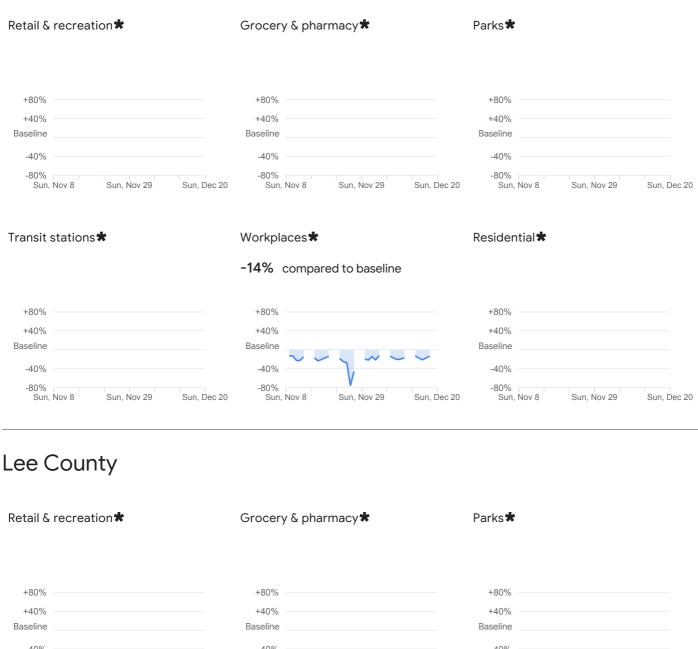


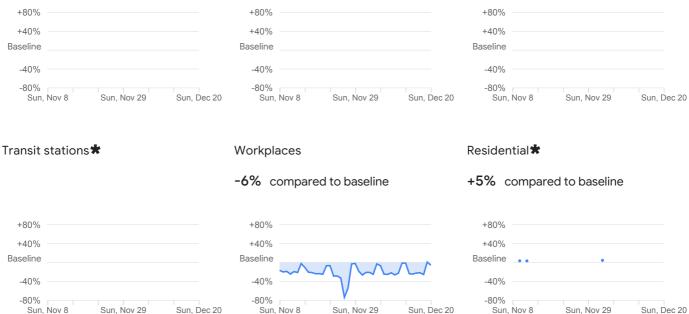
King William County



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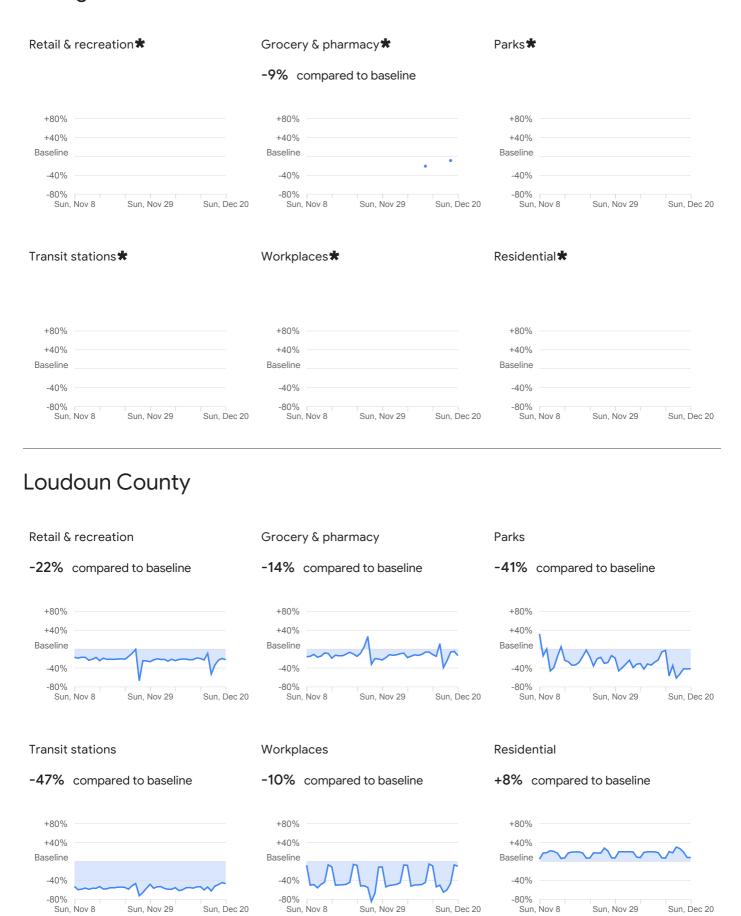
Lancaster County





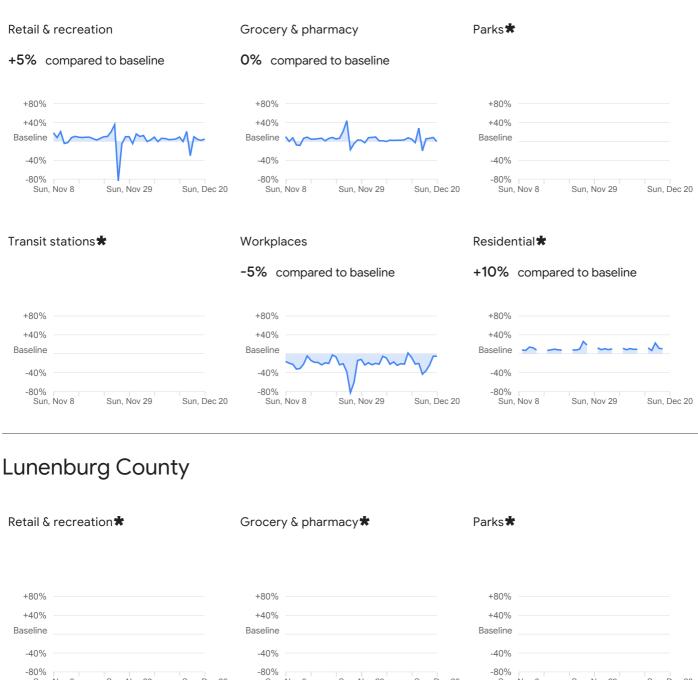
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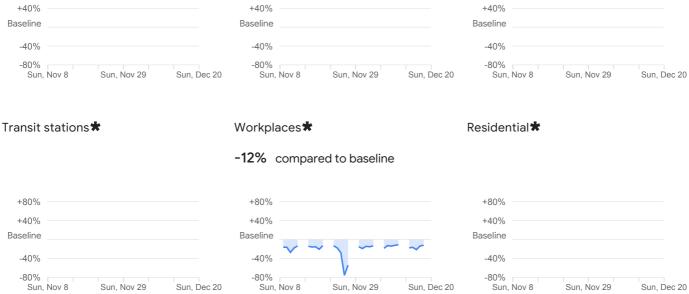
Lexington



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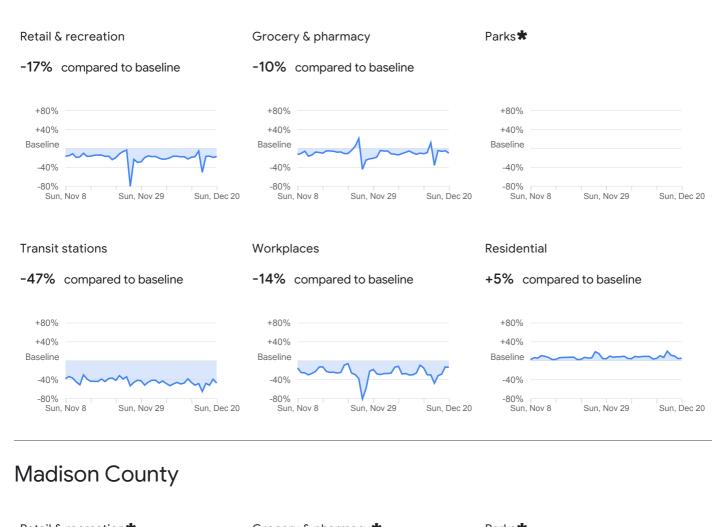
Louisa County

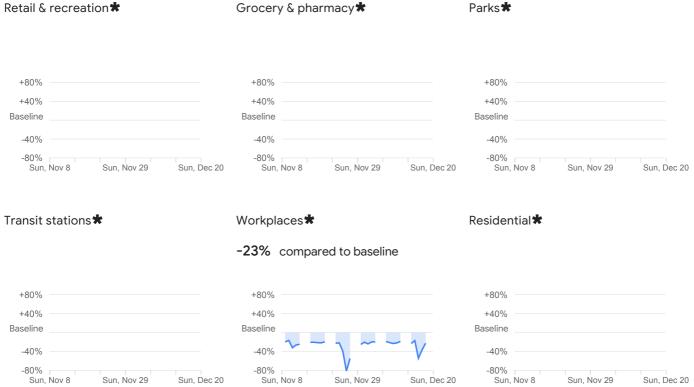




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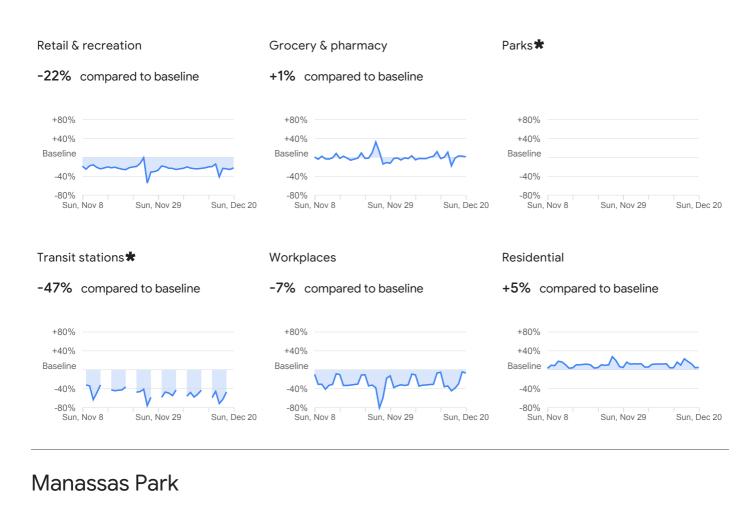
Lynchburg

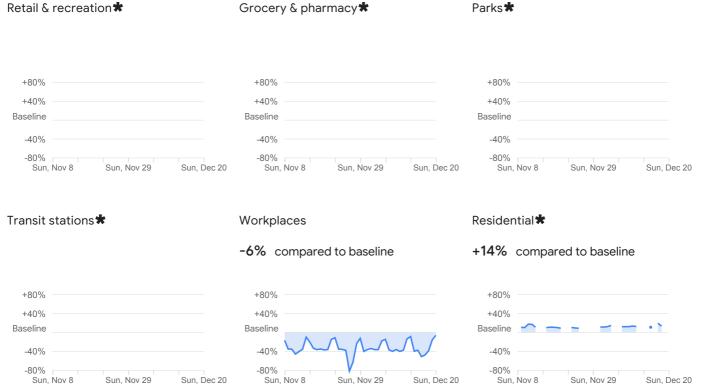




^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

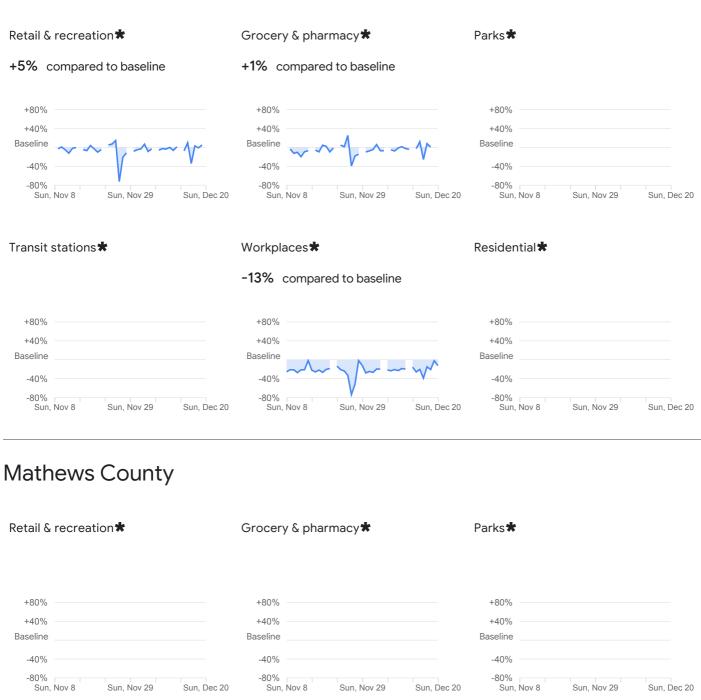
Manassas

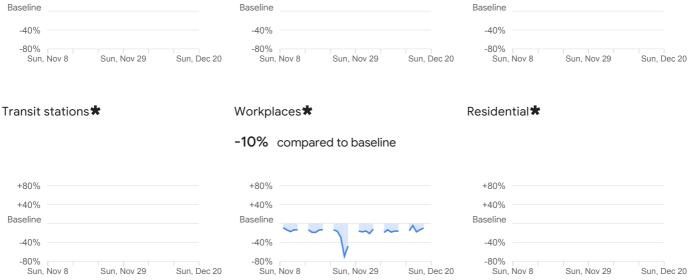




^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

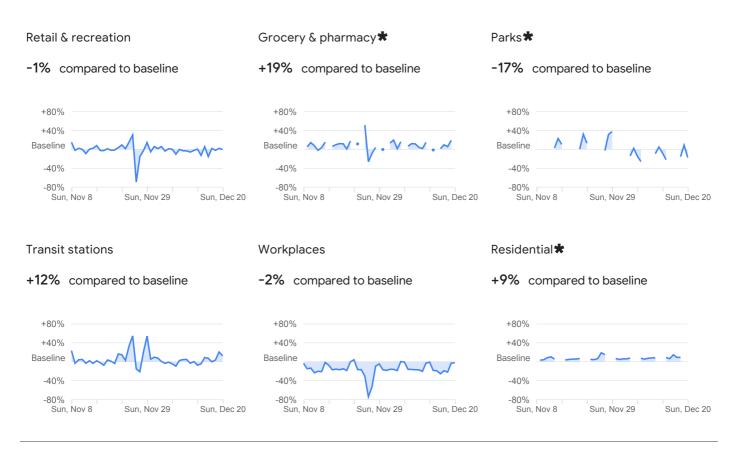
Martinsville



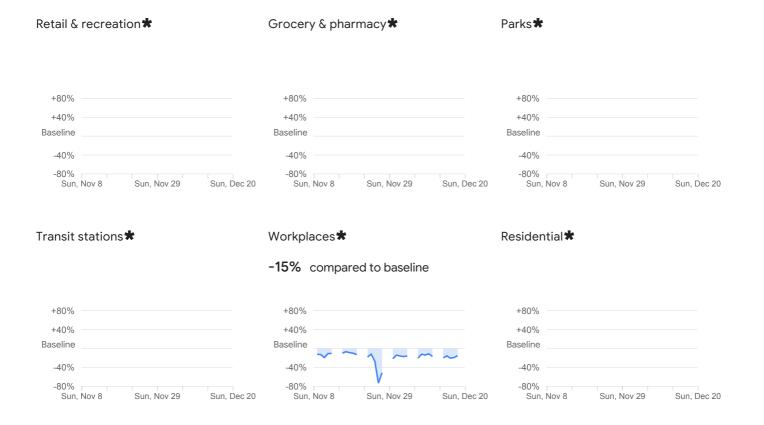


^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Mecklenburg County

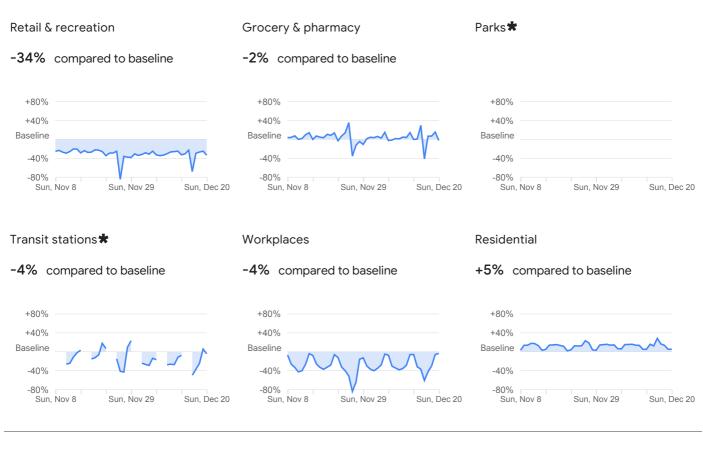


Middlesex County

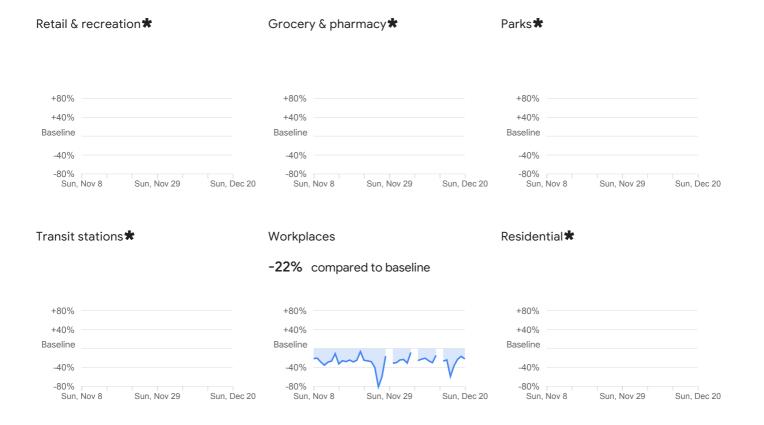


^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Montgomery County

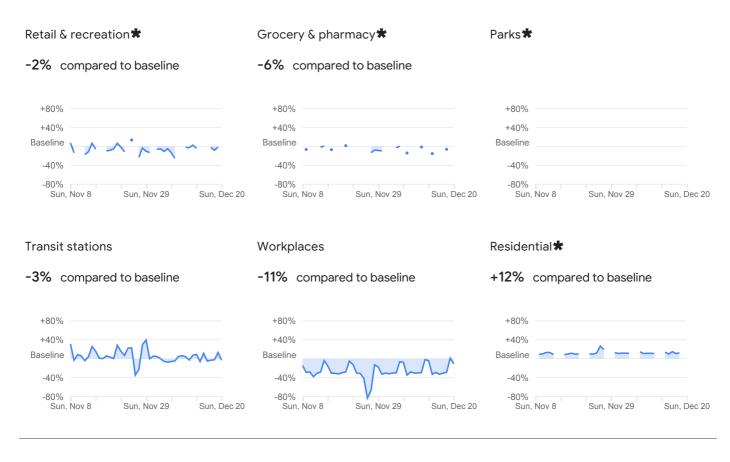


Nelson County

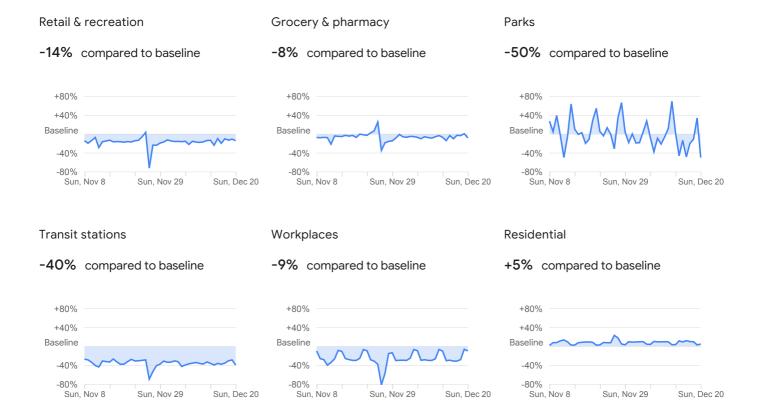


^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

New Kent County

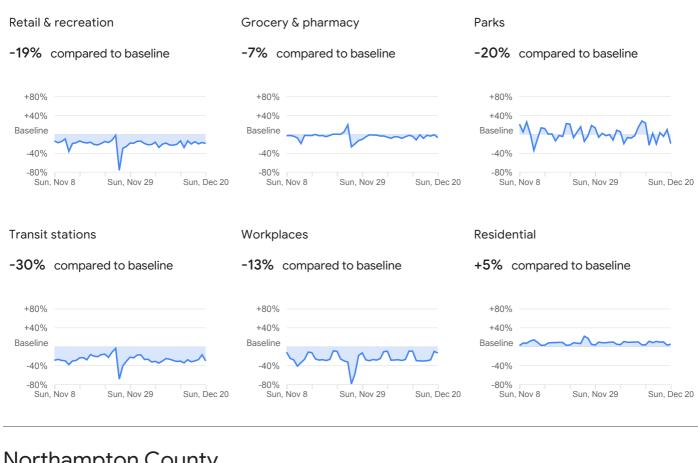


Newport News

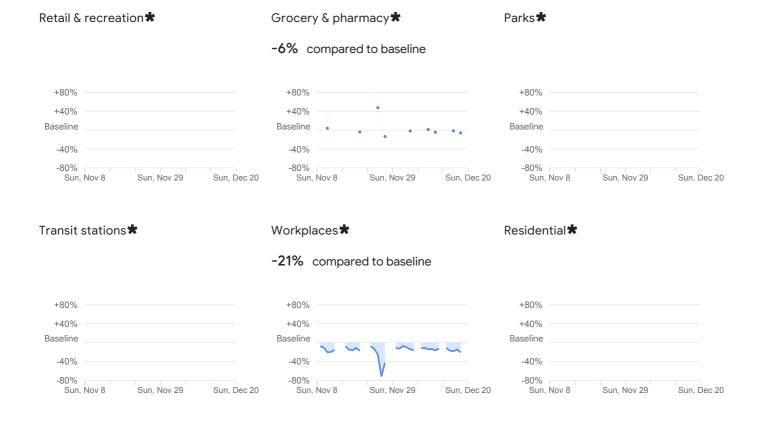


^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Norfolk

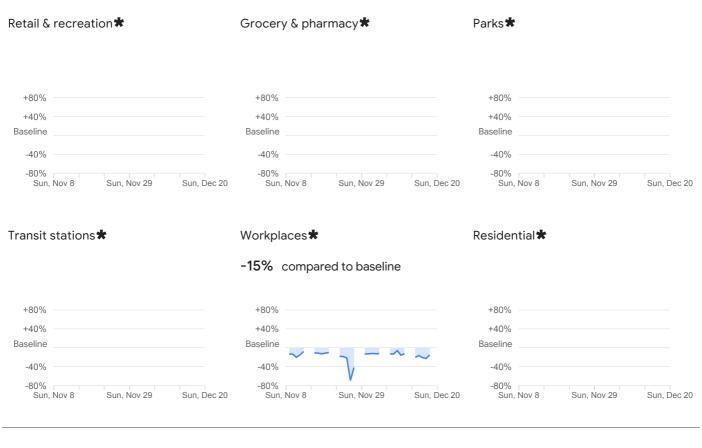


Northampton County

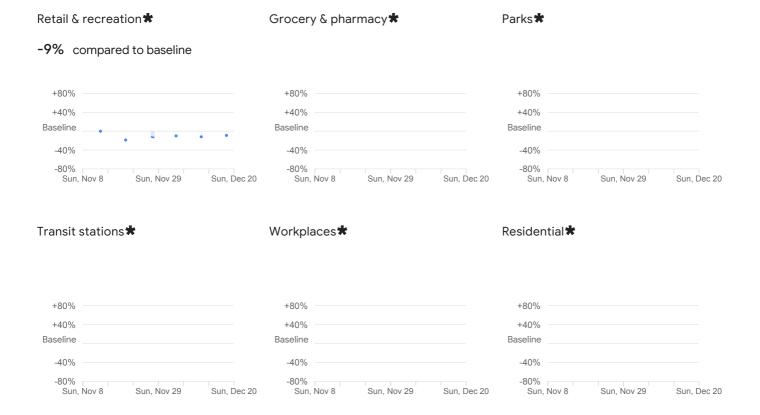


^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Northumberland County

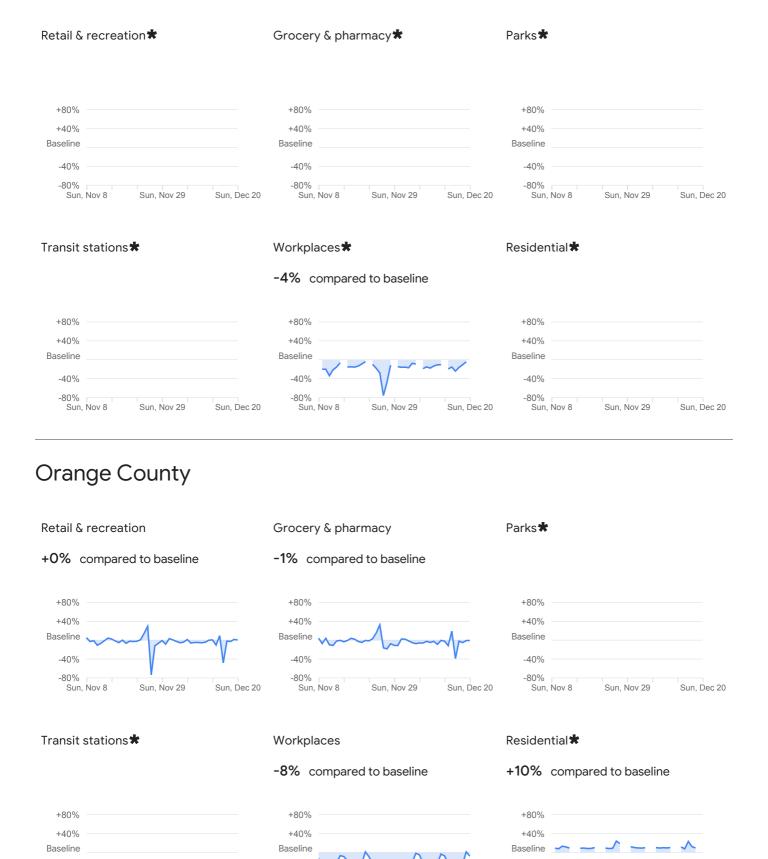


Norton



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

Nottoway County



Sun, Dec 20

-40%

-80%

Sun. Nov 8

Sun, Nov 29

-40%

-80%

Sun. Nov 8

Sun. Dec 20

Sun, Nov 29

Sun, Dec 20

-40%

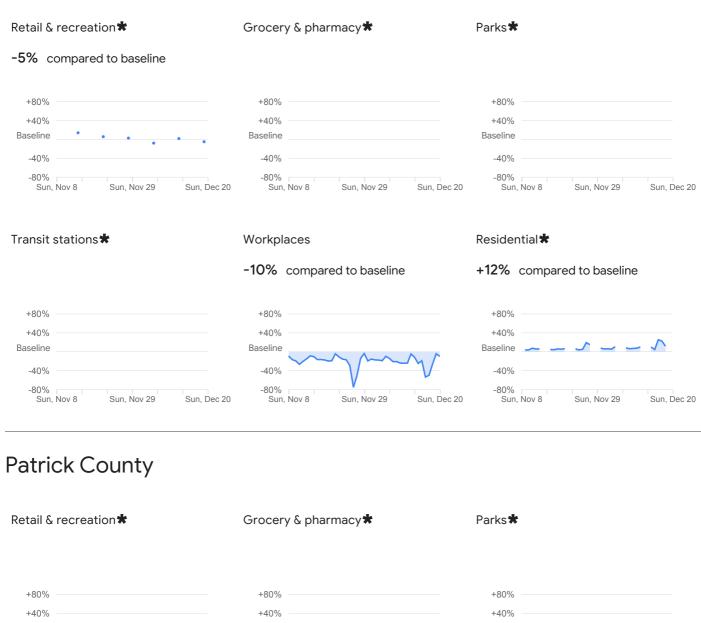
-80%

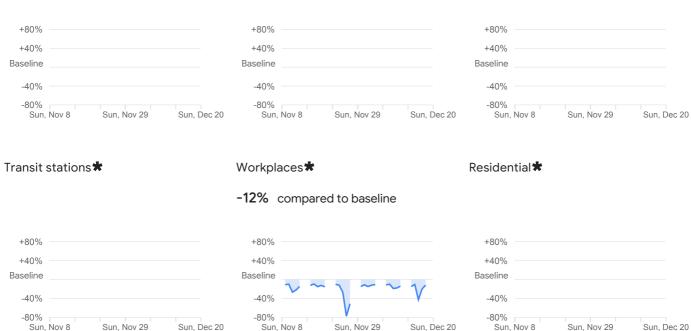
Sun. Nov 8

Sun, Nov 29

^{*} 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.

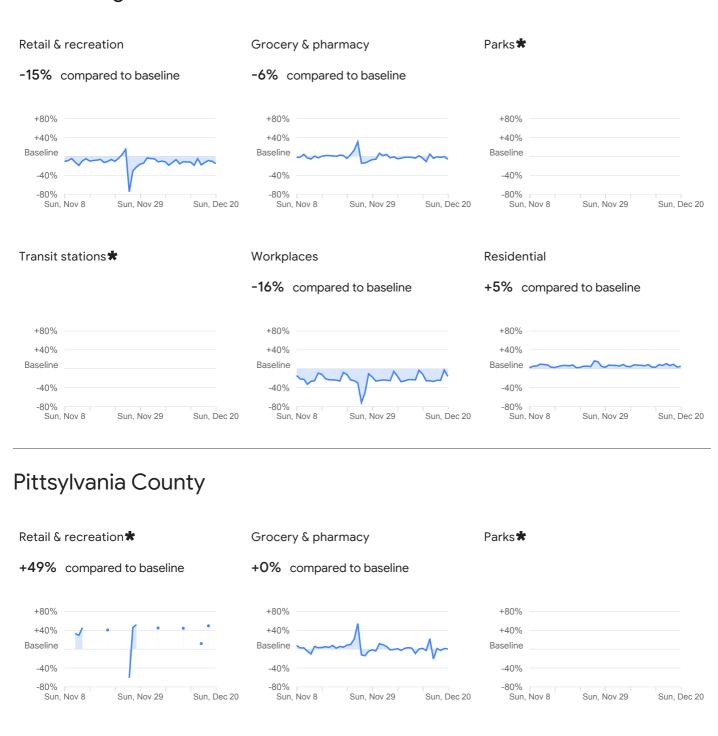
Petersburg

Transit stations*

+80%

+40%

Baseline





Residential

+80%

+40%

Baseline

+6% compared to baseline

Workplaces

+80%

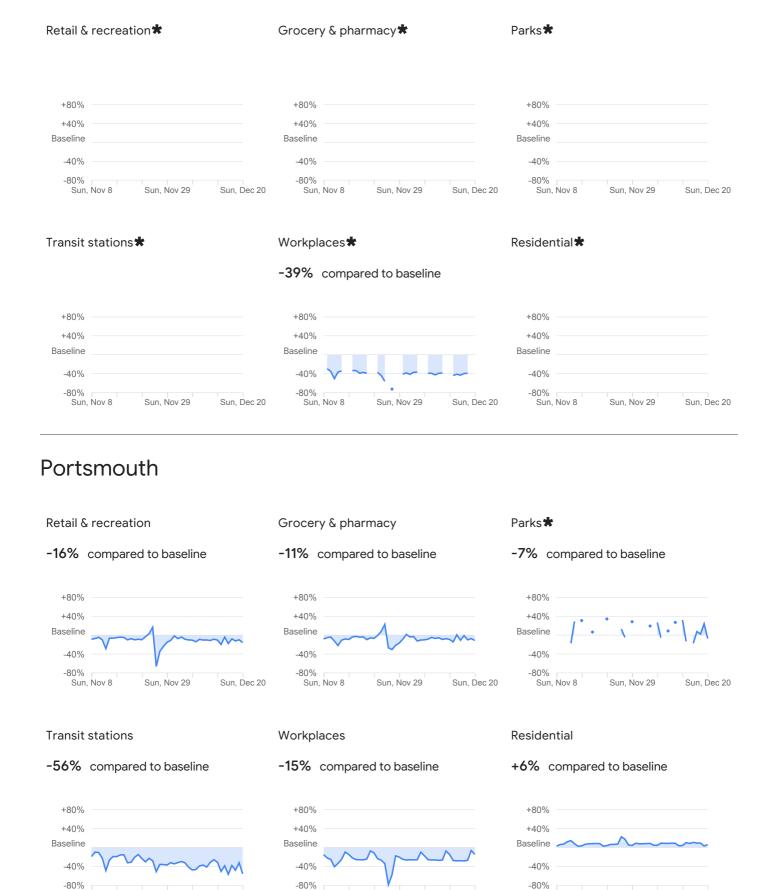
+40%

Baseline

-12% compared to baseline

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

Poquoson



Sun, Nov 29

Sun. Dec 20

Sun, Nov 29

Sun. Nov 8

Sun, Dec 20

Sun. Nov 8

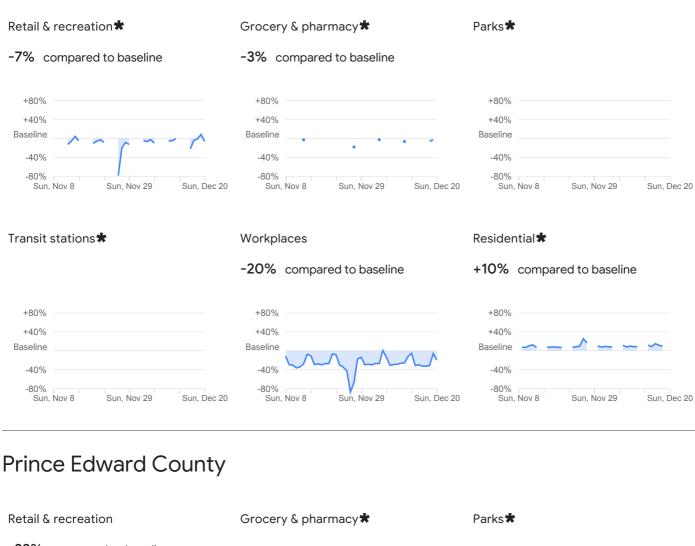
Sun, Dec 20

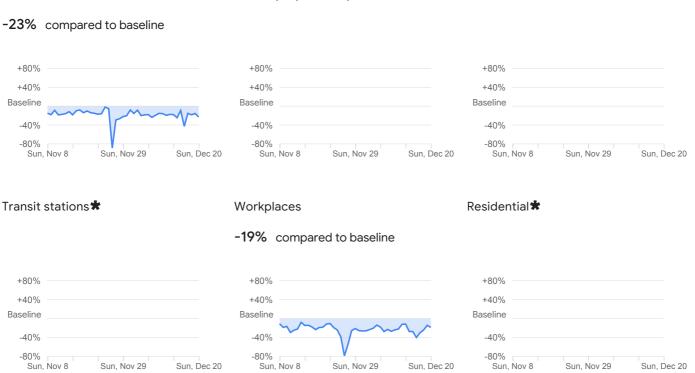
Sun. Nov 8

Sun. Nov 29

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

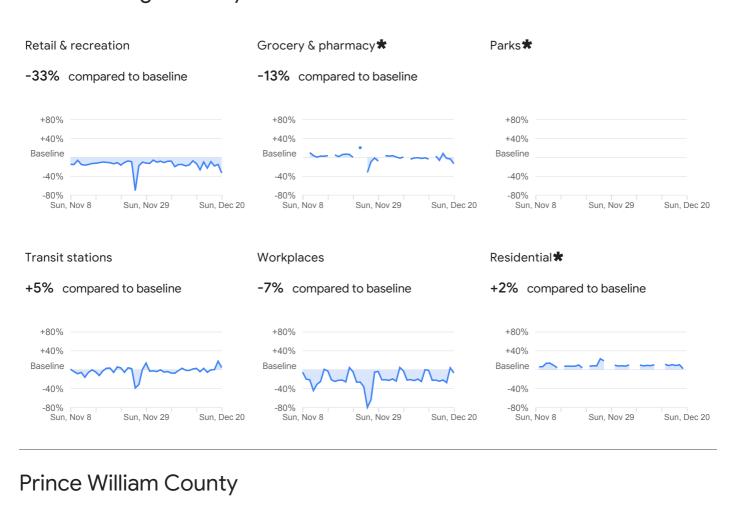
Powhatan County

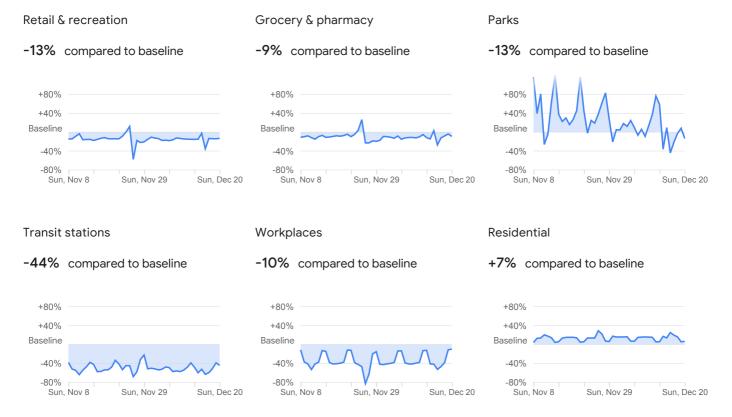




^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

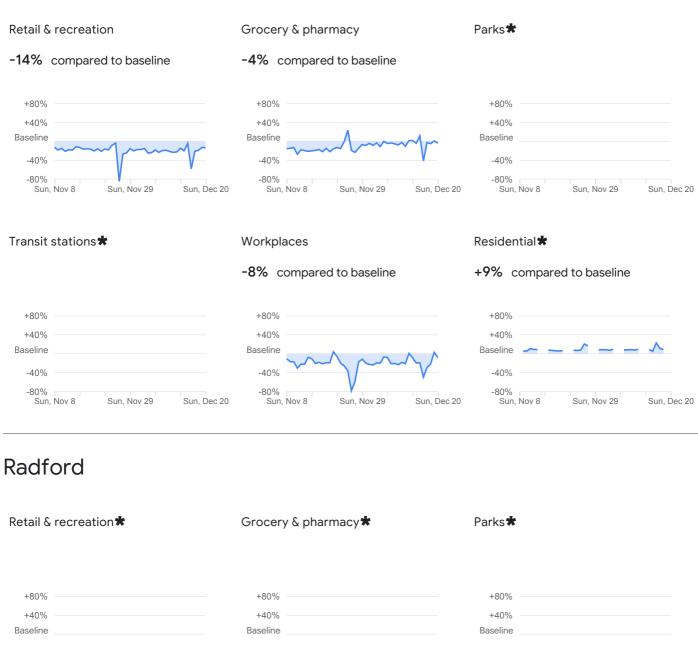
Prince George County

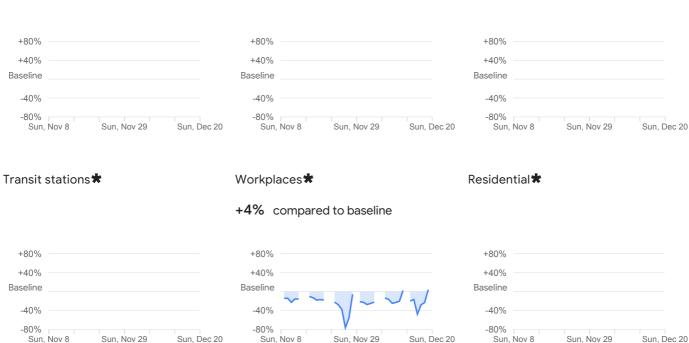




^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

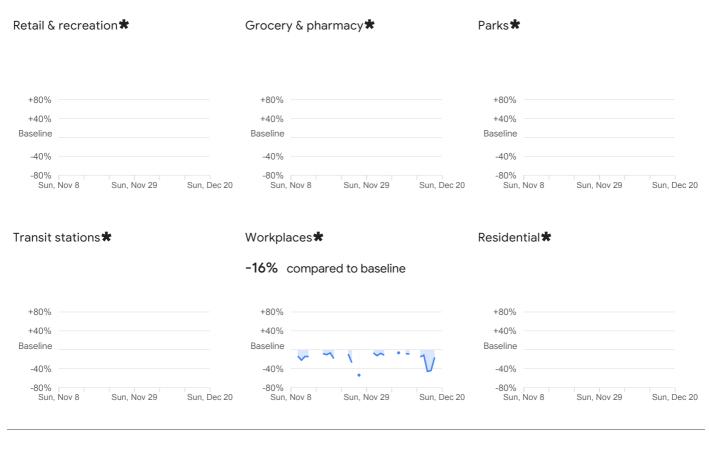
Pulaski County



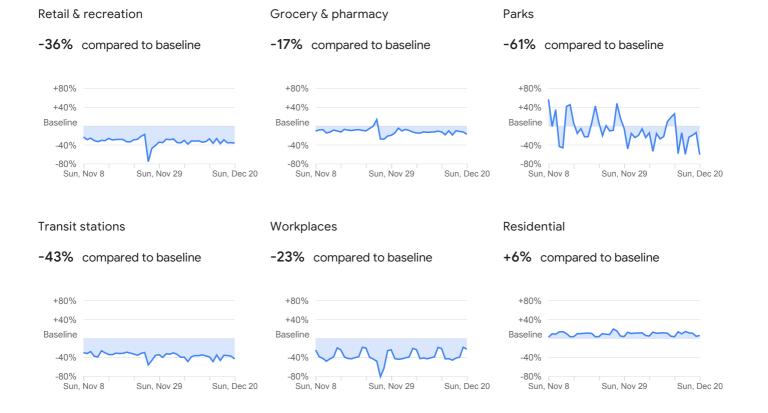


^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Rappahannock County

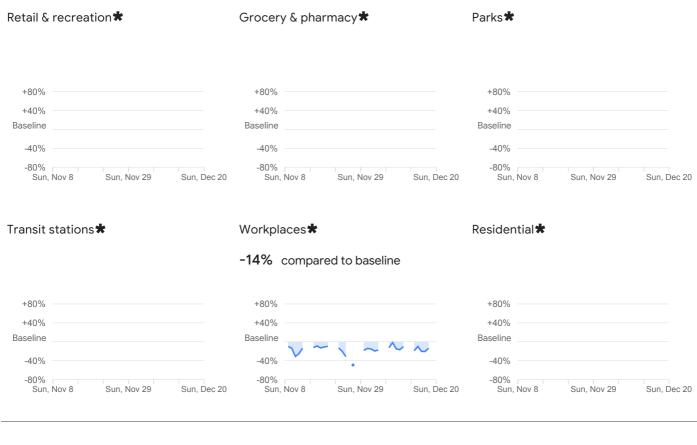


Richmond

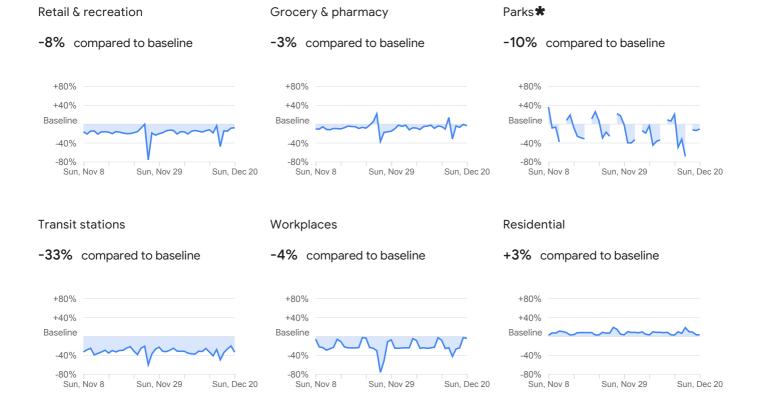


^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Richmond County

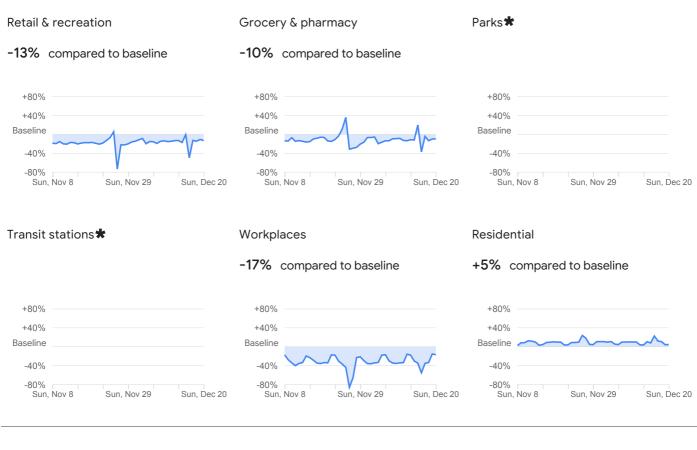


Roanoke

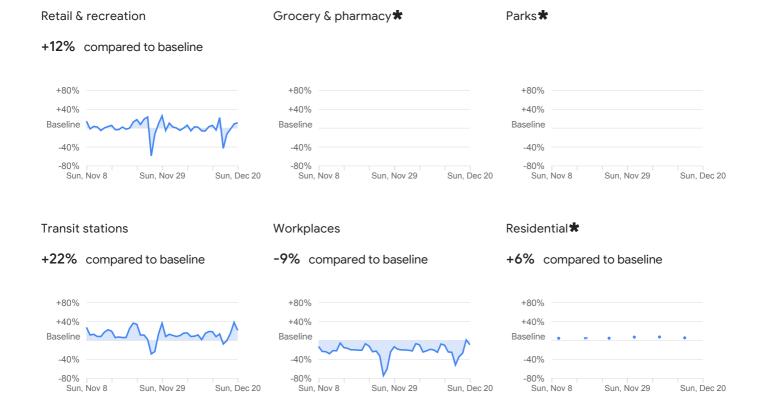


^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Roanoke County

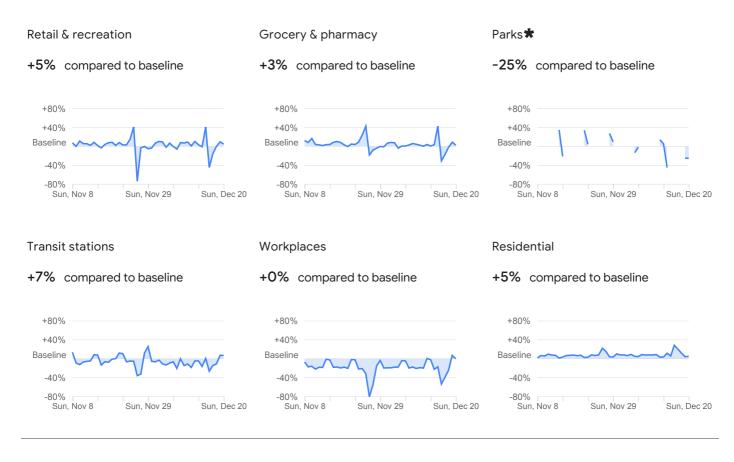


Rockbridge County

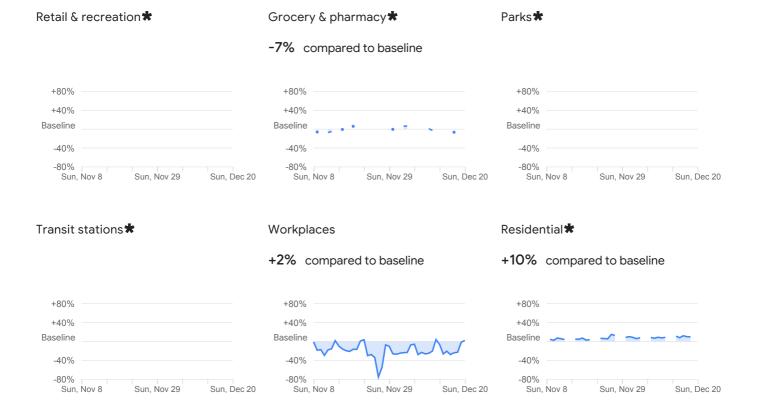


^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Rockingham County

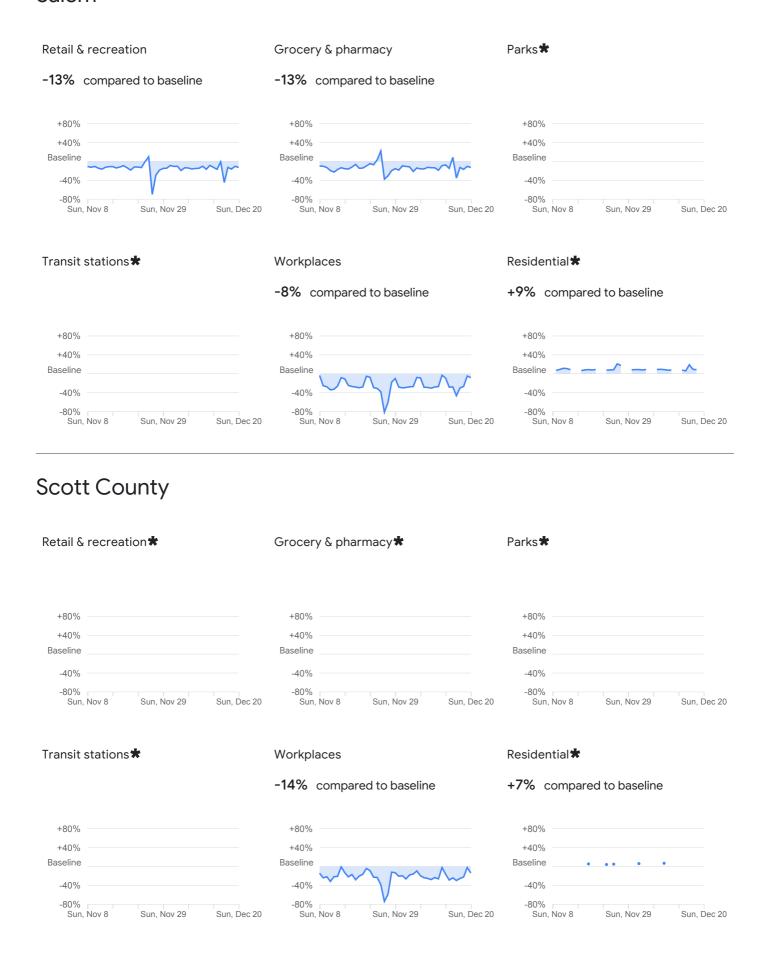


Russell County



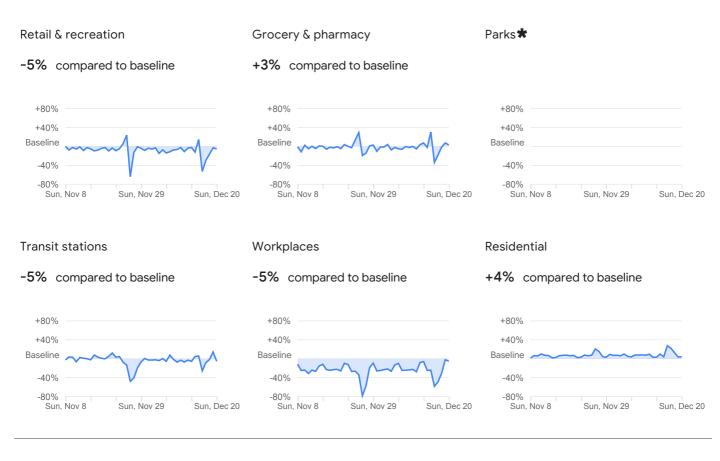
^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Salem

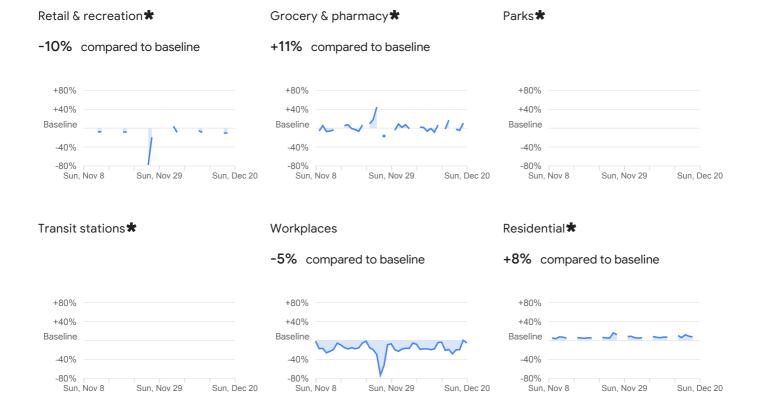


^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Shenandoah County

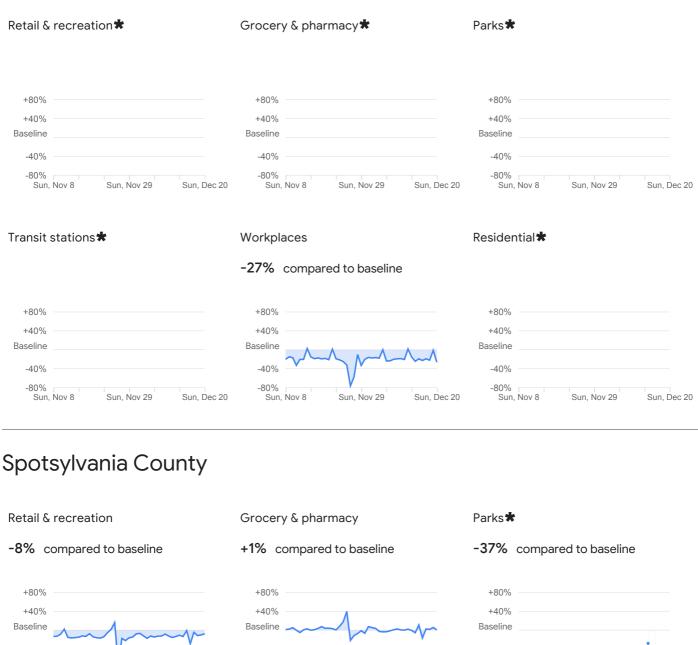


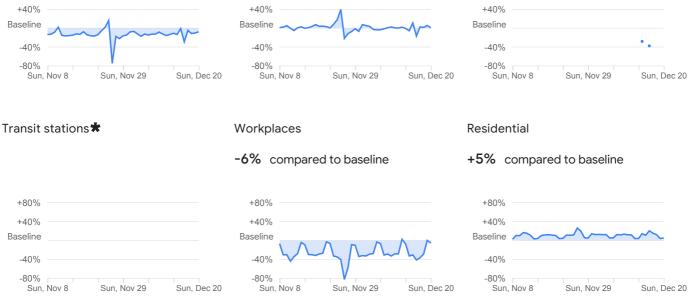
Smyth County



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

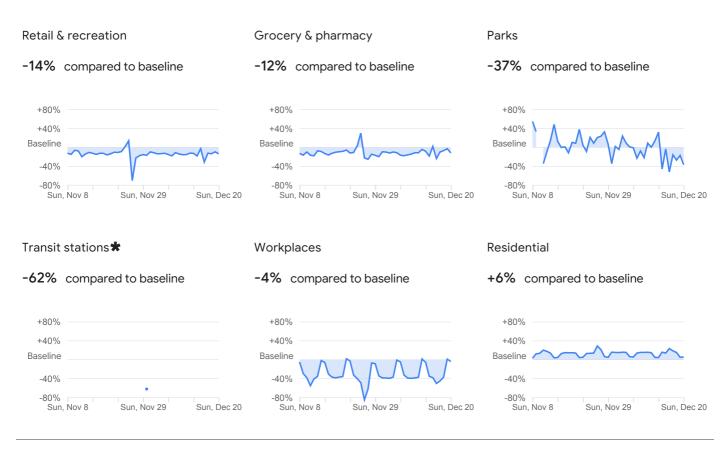
Southampton County



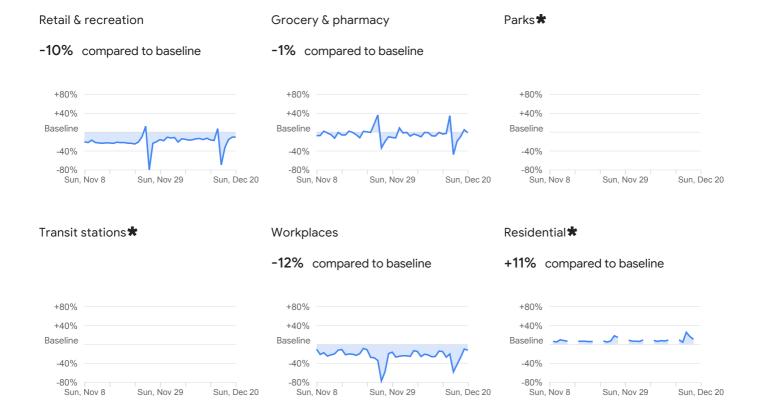


^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Stafford County

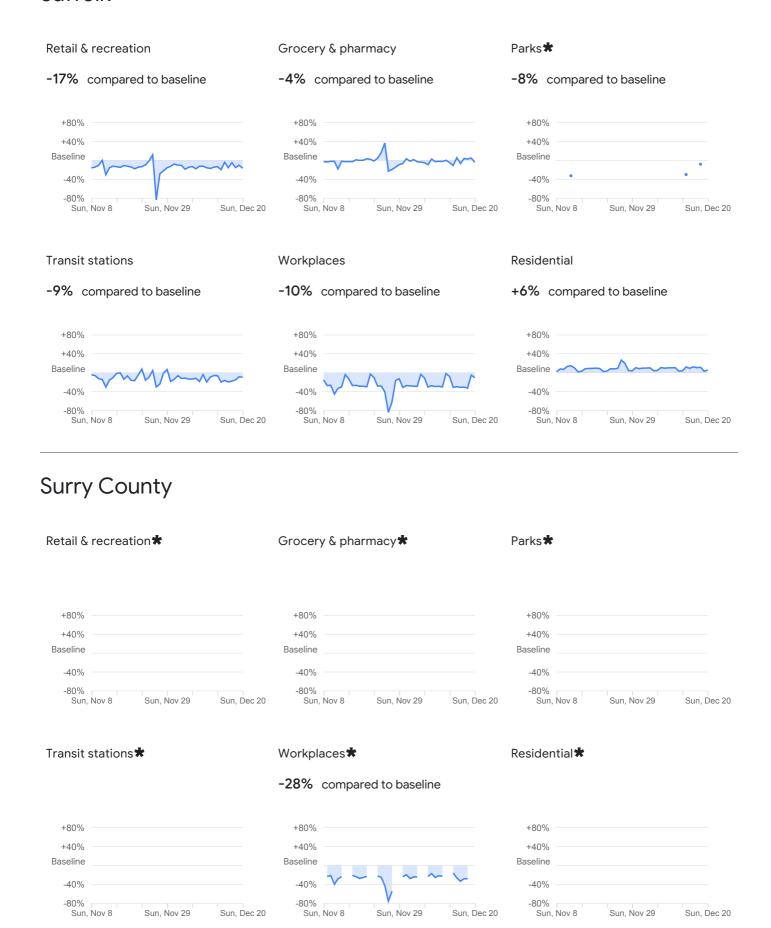


Staunton



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

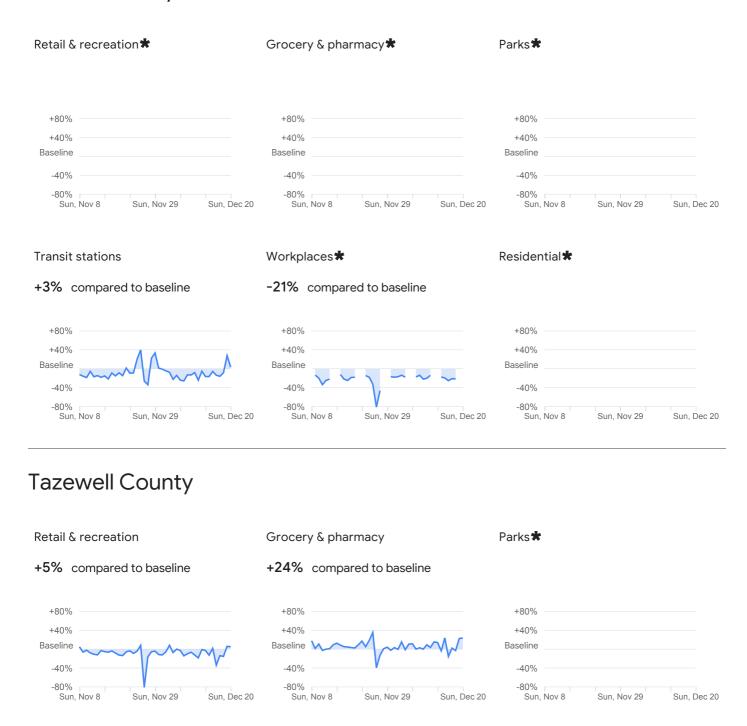
Suffolk

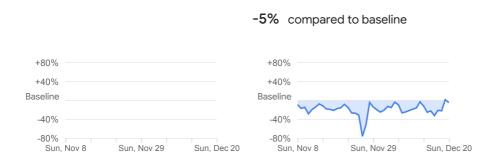


^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Sussex County

Transit stations*





Workplaces

Residential*

+80%

+40%

-40%

-80%

Sun. Nov 8

Baseline

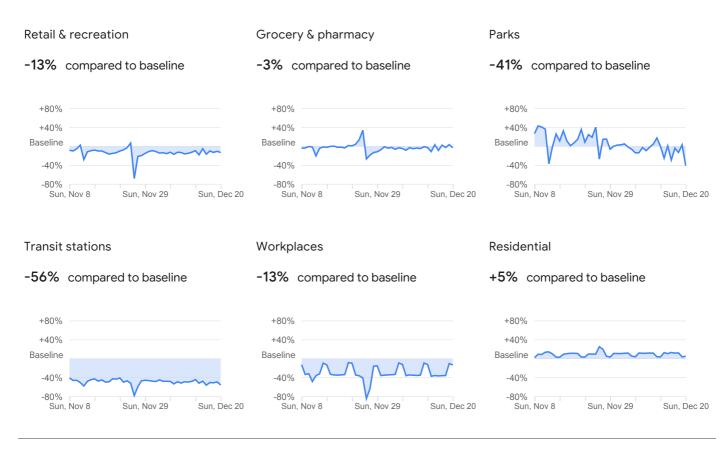
+10% compared to baseline

Sun, Nov 29

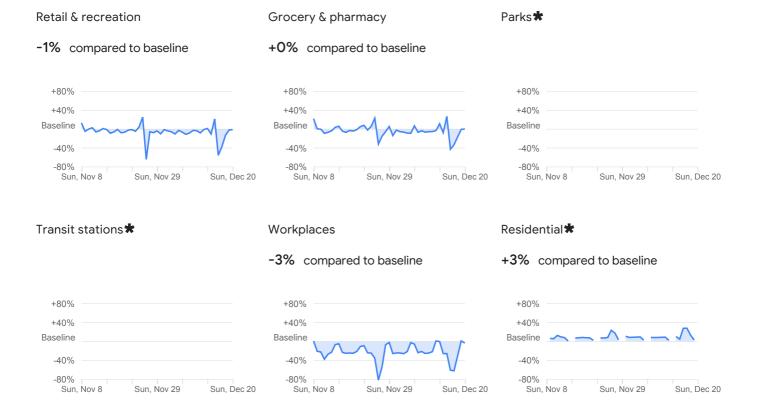
Sun, Dec 20

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

Virginia Beach

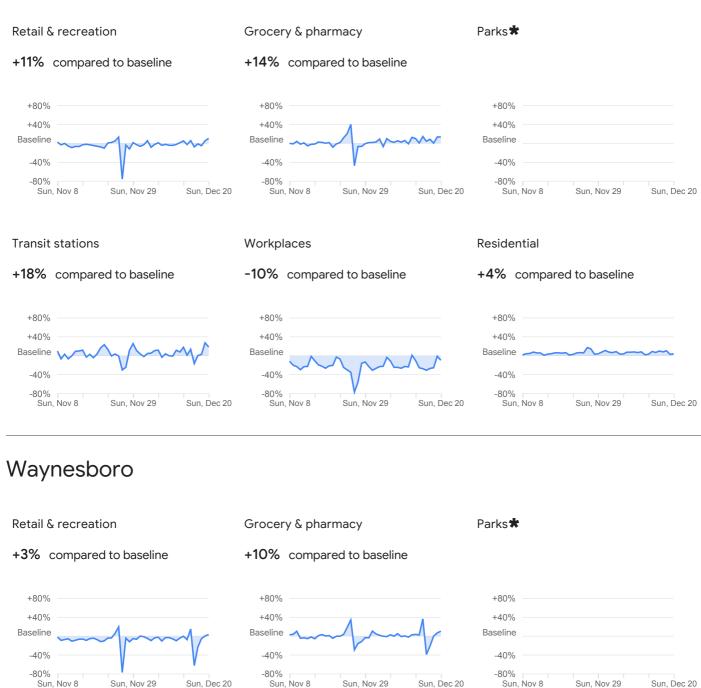


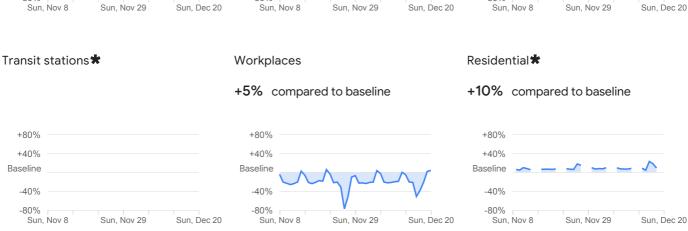
Warren County



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

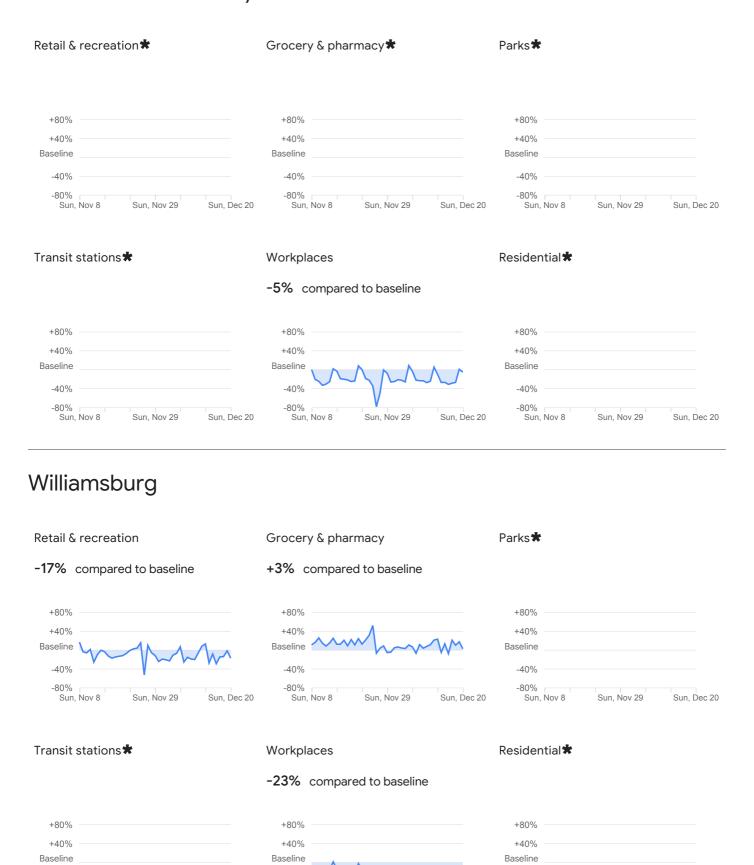
Washington County





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

Westmoreland County



-40%

-80%

Sun. Dec 20

Sun, Nov 8

Sun, Nov 29

Sun, Dec 20

Sun, Dec 20

-40%

-80%

Sun. Nov 8

Sun, Nov 29

-40%

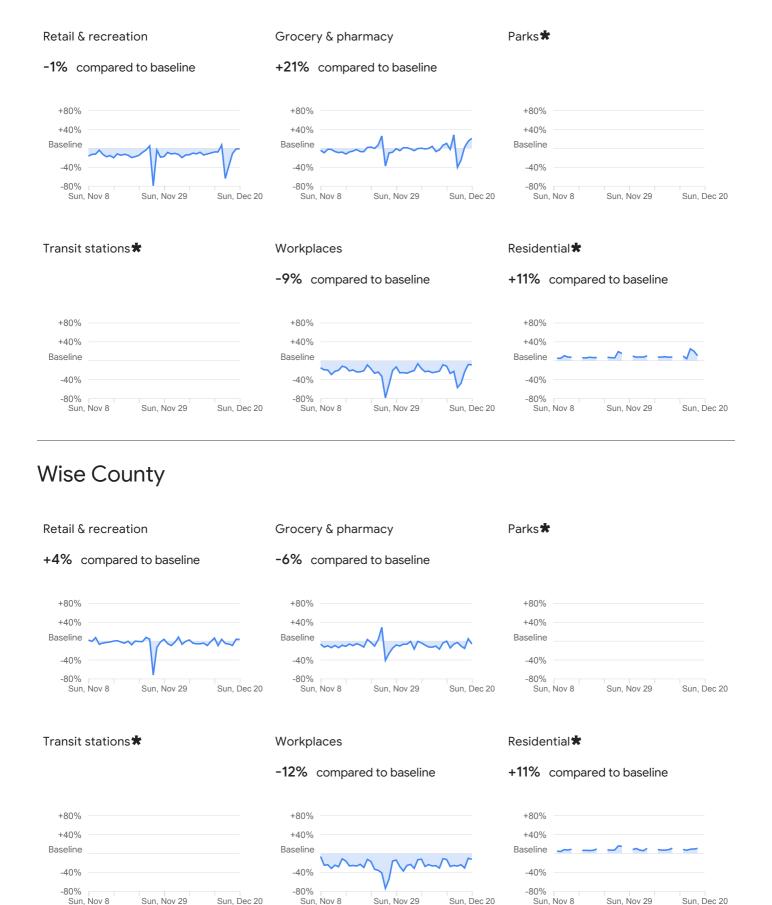
-80%

Sun. Nov 8

Sun, Nov 29

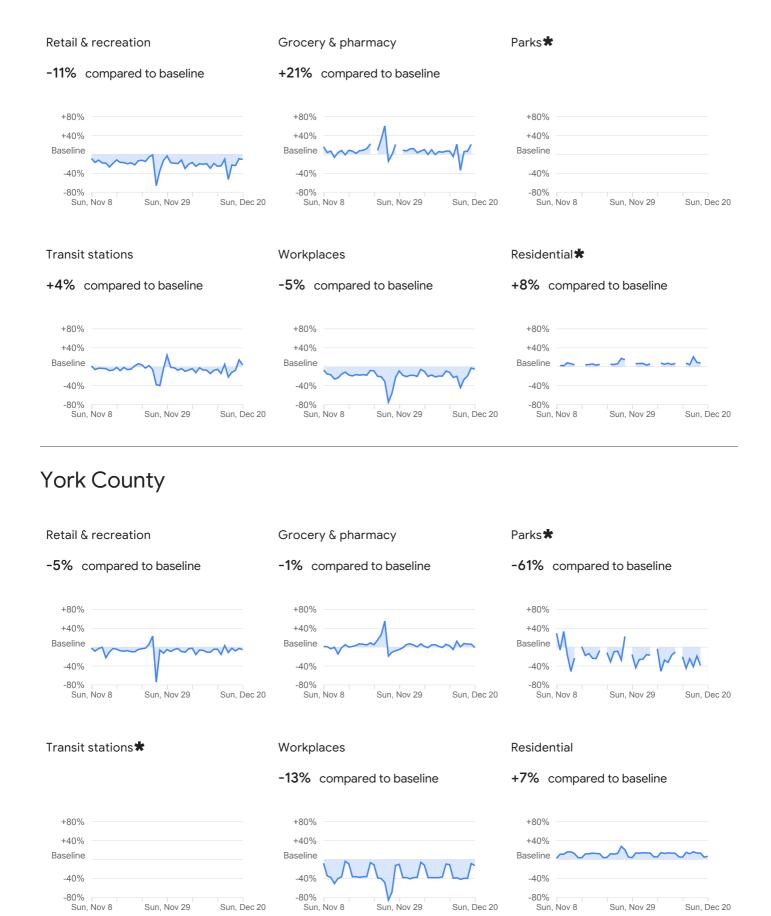
^{*} The data doesn't meet quality and privacy thresholds for every day in the chart.

Winchester



^{*} 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