

Virginia May 16, 2020

Mobility changes

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

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

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

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

Retail & recreation

-31%

compared to baseline

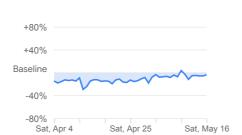


Mobility trends for places like restaurants, cafes, shopping centers, theme parks, museums, libraries, and movie theaters.

Grocery & pharmacy

-3%

compared to baseline

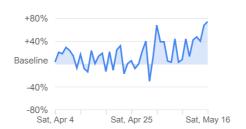


Mobility trends for places like grocery markets, food warehouses, farmers markets, specialty food shops, drug stores, and pharmacies.

Parks

+74%

compared to baseline

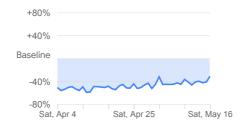


Mobility trends for places like national parks, public beaches, marinas, dog parks, plazas, and public gardens.

Transit stations

-31%

compared to baseline



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

Workplaces

-25%

compared to baseline

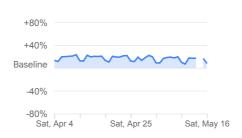


Mobility trends for places of work.

Residential

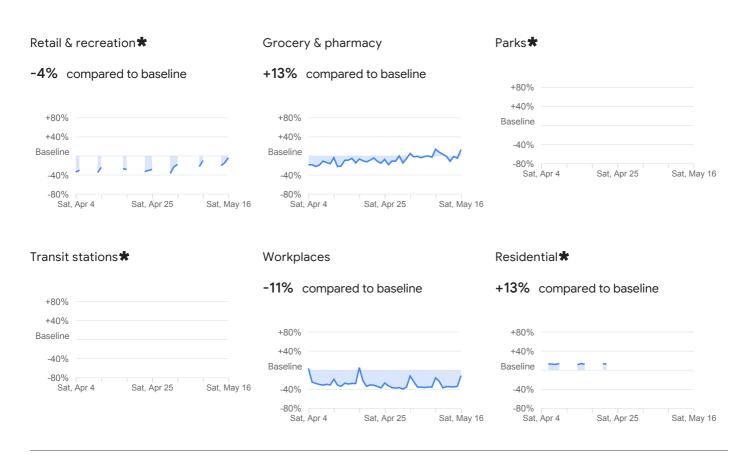
+8%

compared to baseline

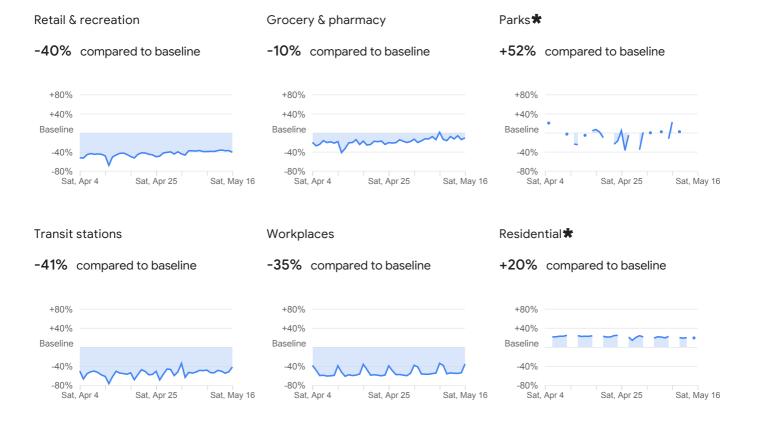


Mobility trends for places of residence.

Accomack County

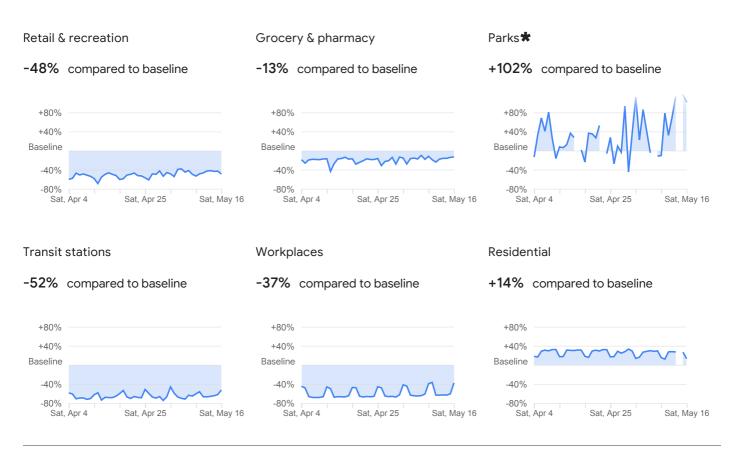


Albemarle County

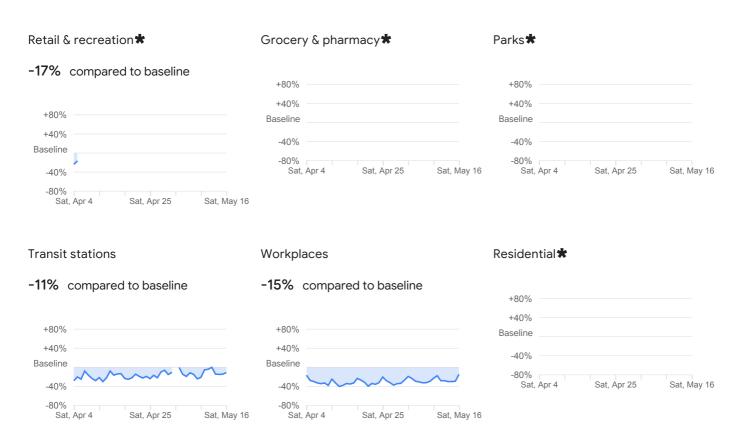


^{*} **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

Alexandria

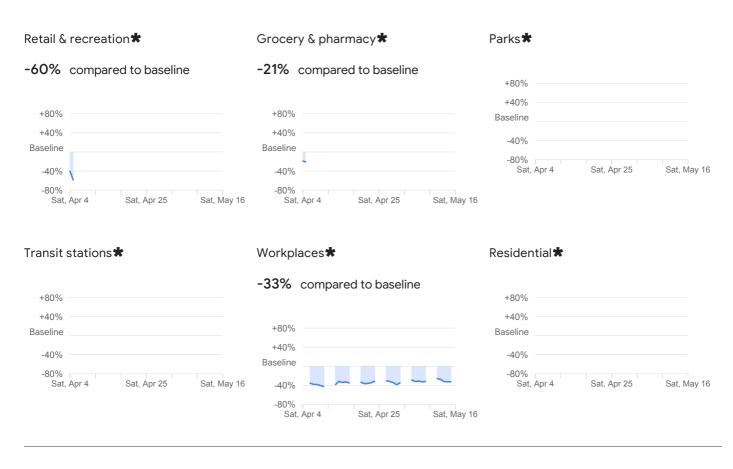


Alleghany County

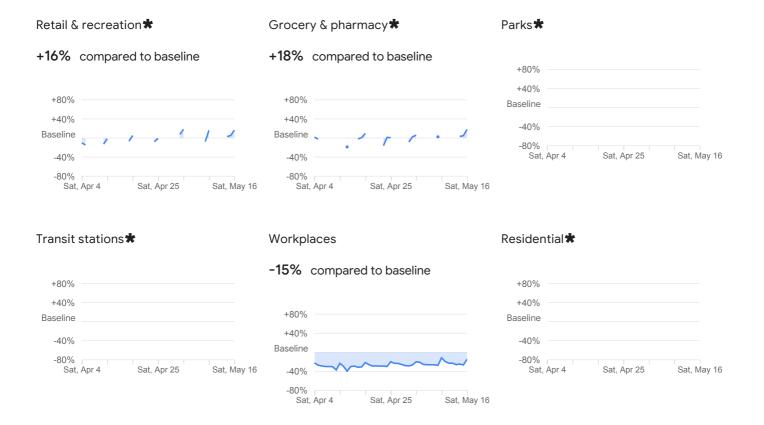


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Amelia County

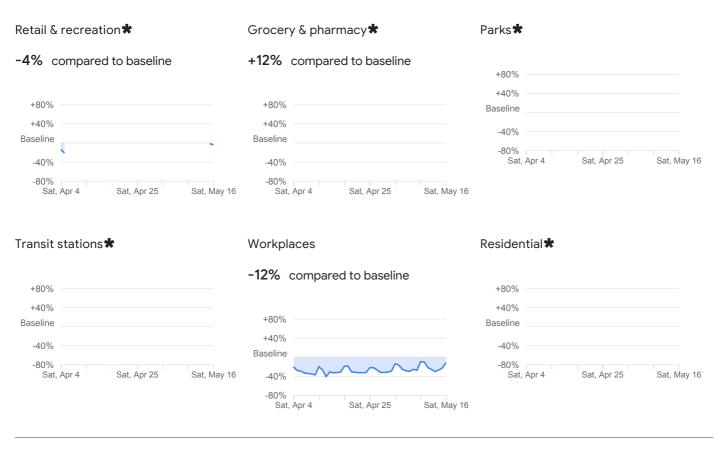


Amherst County

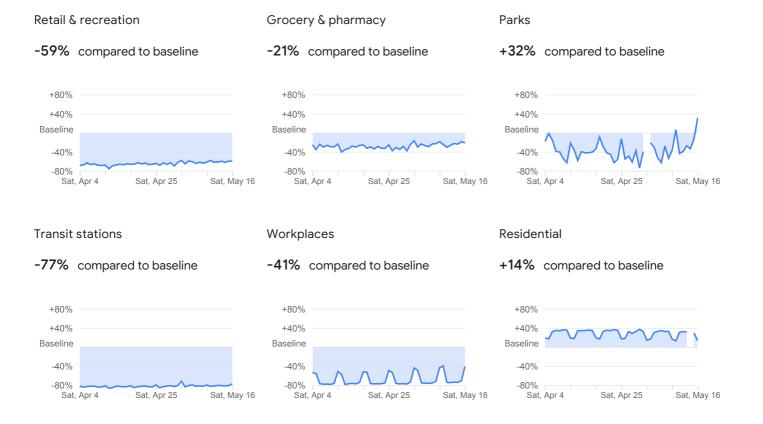


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Appomattox County

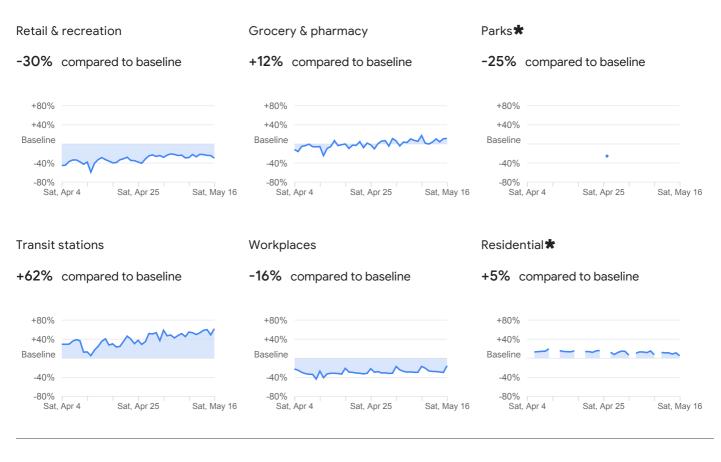


Arlington County

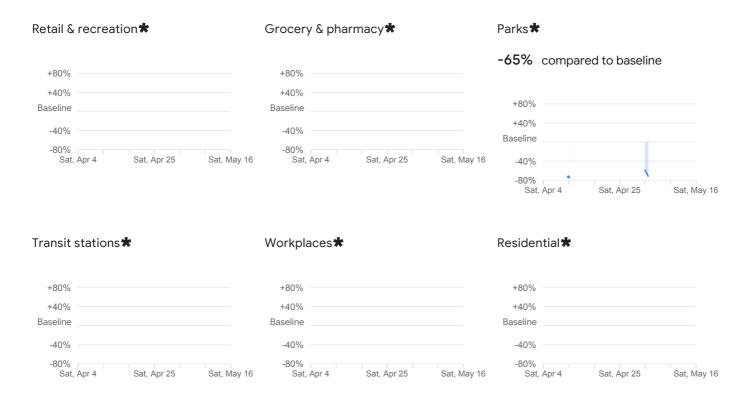


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Augusta County

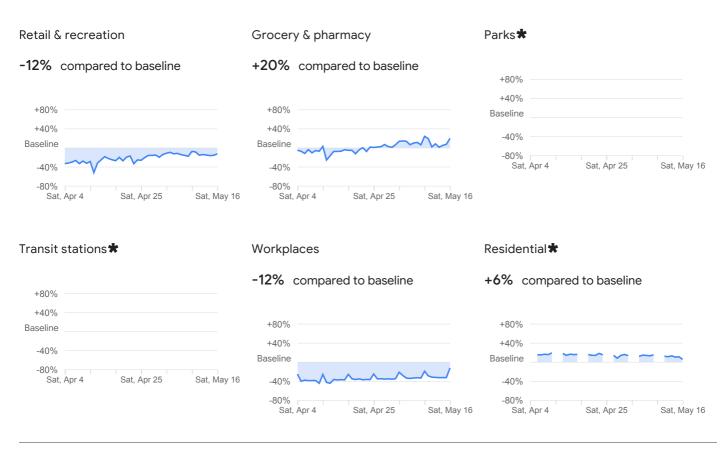


Bath County

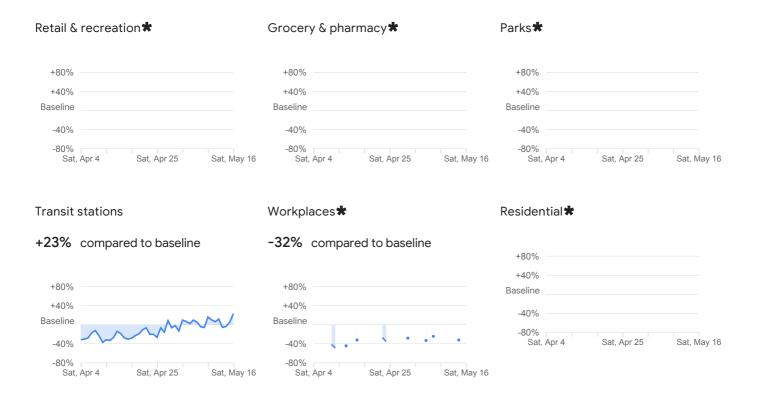


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Bedford County

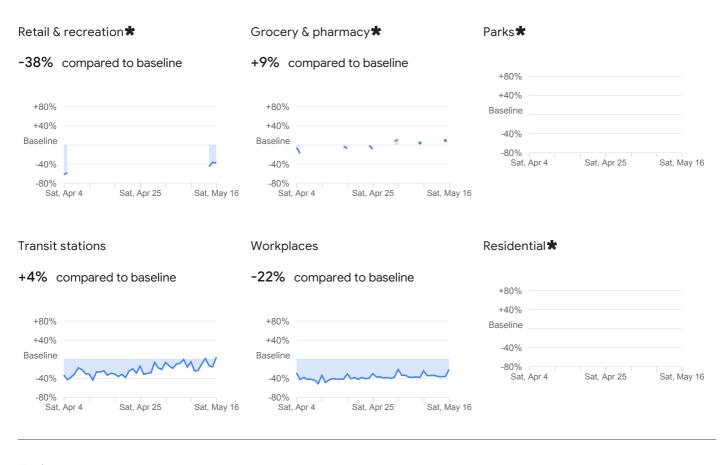


Bland County

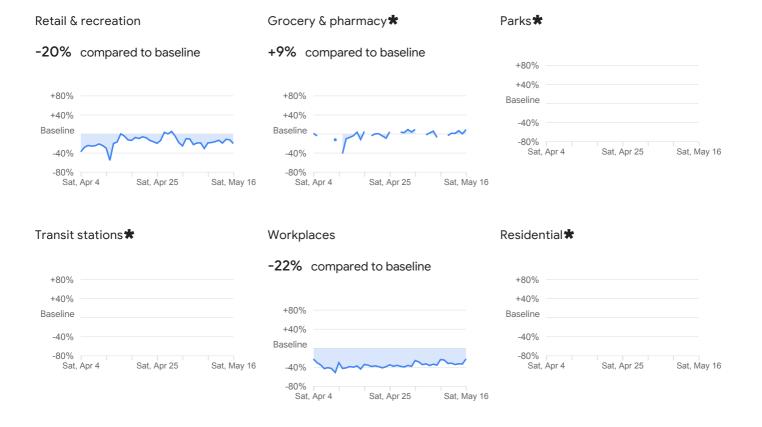


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Botetourt County

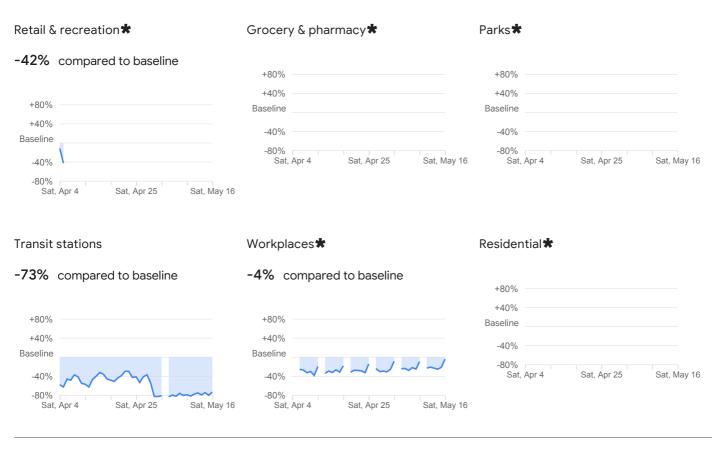


Bristol

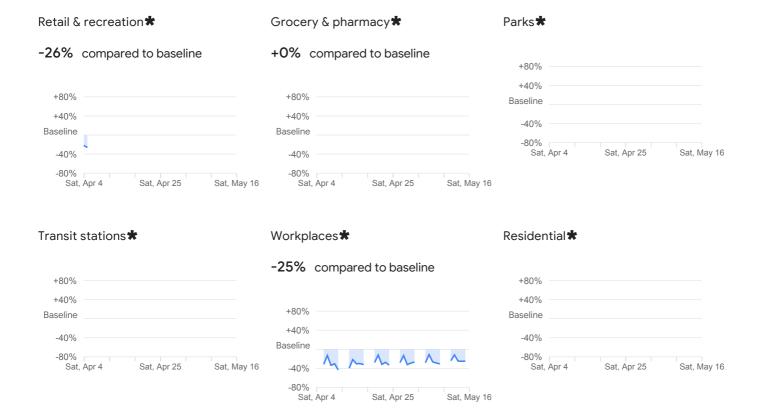


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Brunswick County

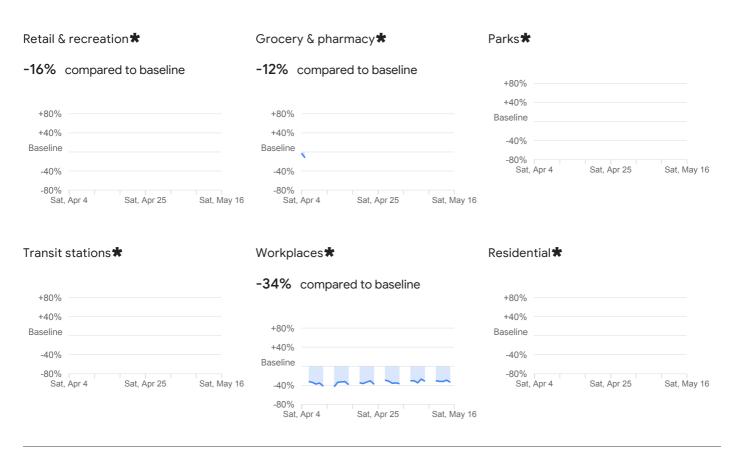


Buchanan County

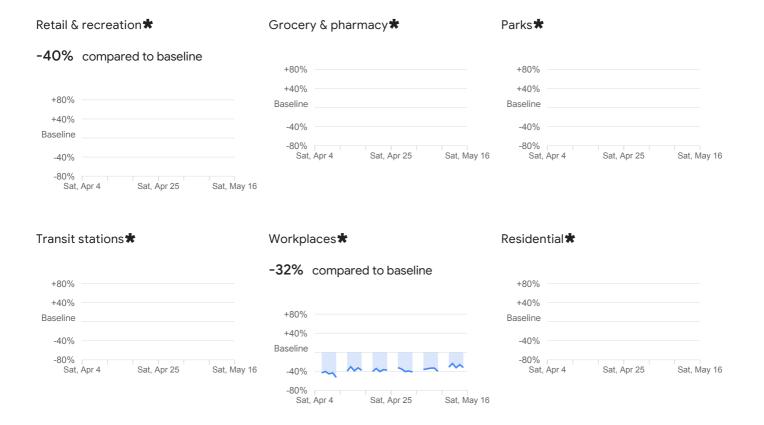


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Buckingham County

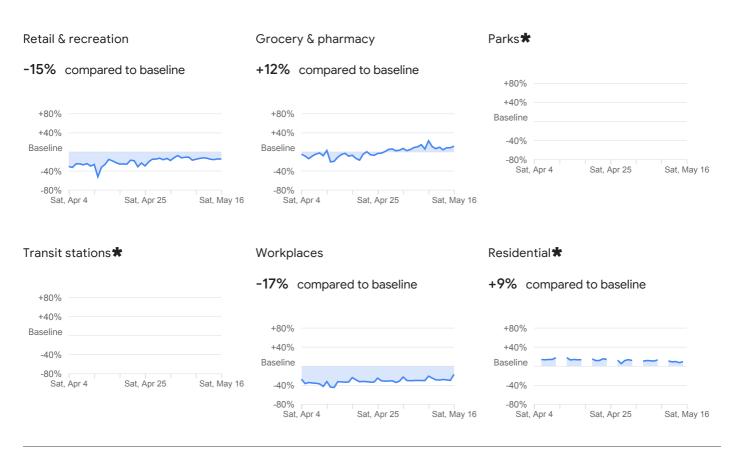


Buena Vista

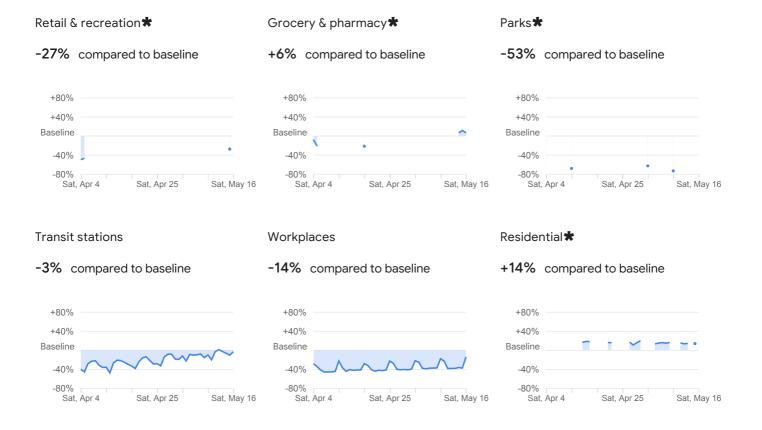


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Campbell County

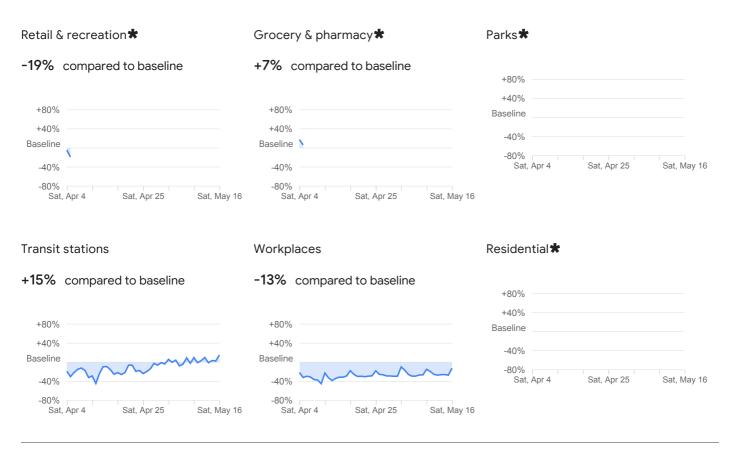


Caroline County

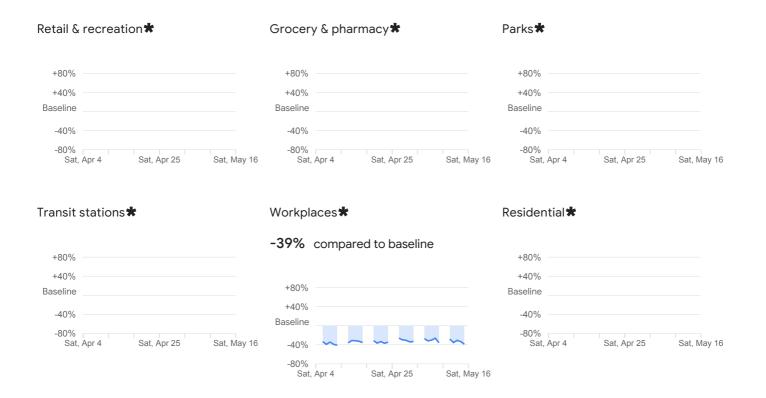


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Carroll County

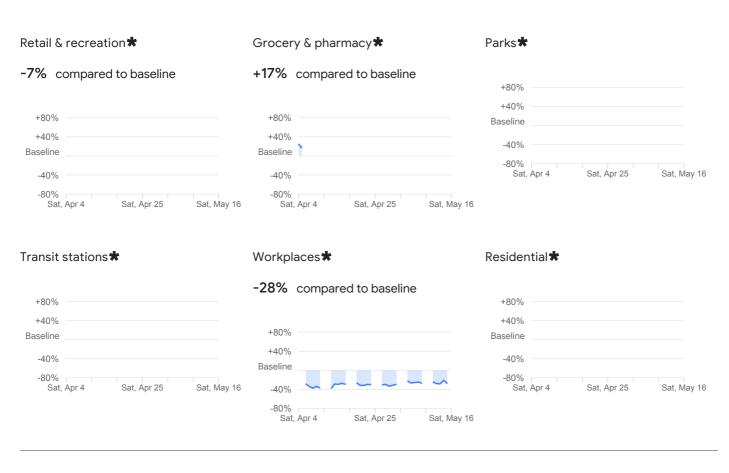


Charles City County

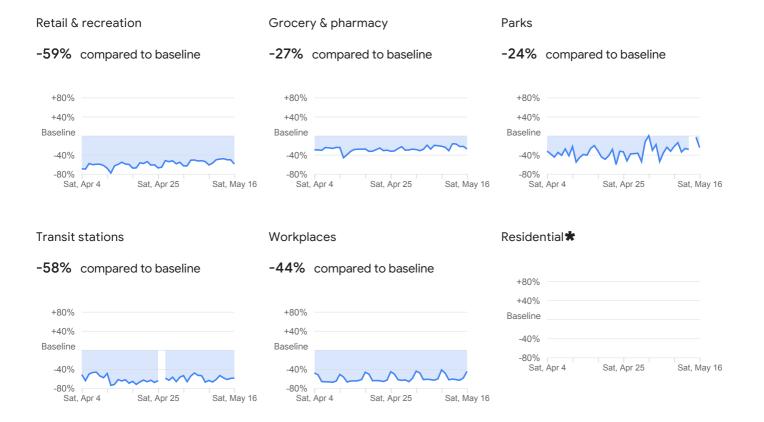


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Charlotte County



Charlottesville

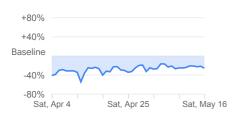


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Chesapeake

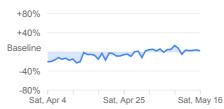
Retail & recreation

-26% compared to baseline



Grocery & pharmacy

+3% compared to baseline



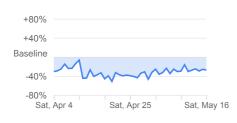
Parks

+95% compared to baseline



Transit stations

-27% compared to baseline



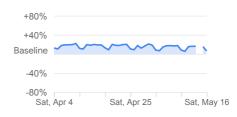
Workplaces

-20% compared to baseline



Residential

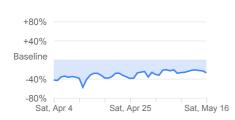
+7% compared to baseline



Chesterfield County

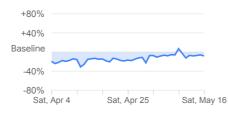
Retail & recreation

-27% compared to baseline



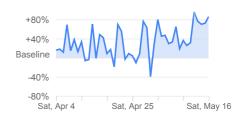
Grocery & pharmacy

-8% compared to baseline



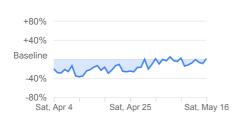
Parks

+87% compared to baseline



Transit stations

+1% compared to baseline



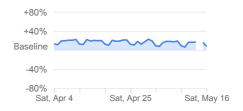
Workplaces

-22% compared to baseline

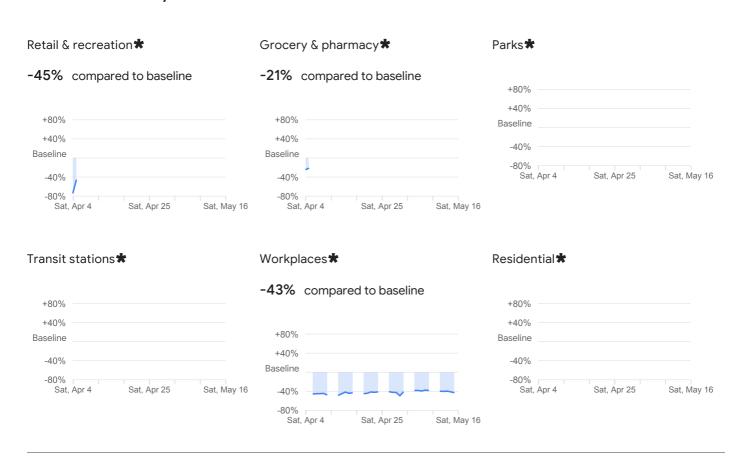


Residential

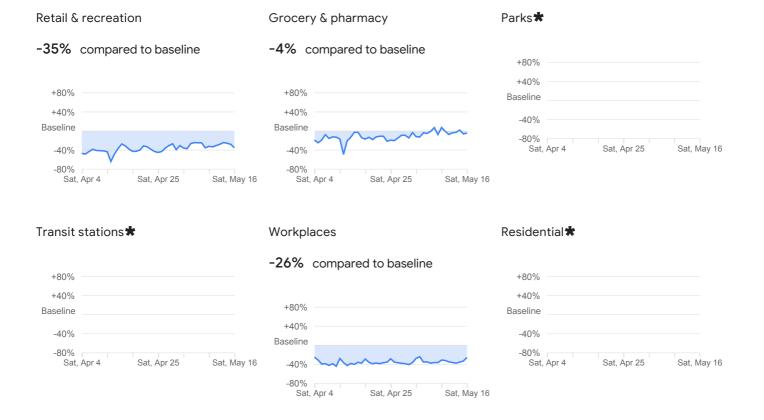
+8% compared to baseline



Clarke County

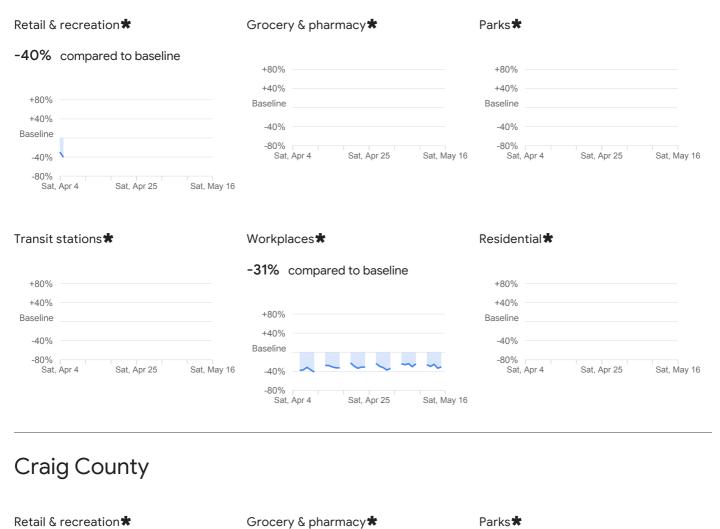


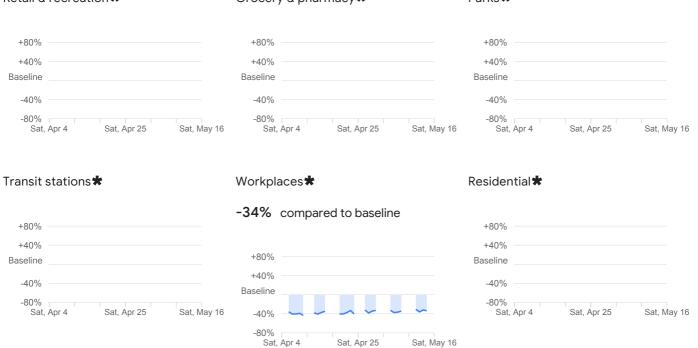
Colonial Heights



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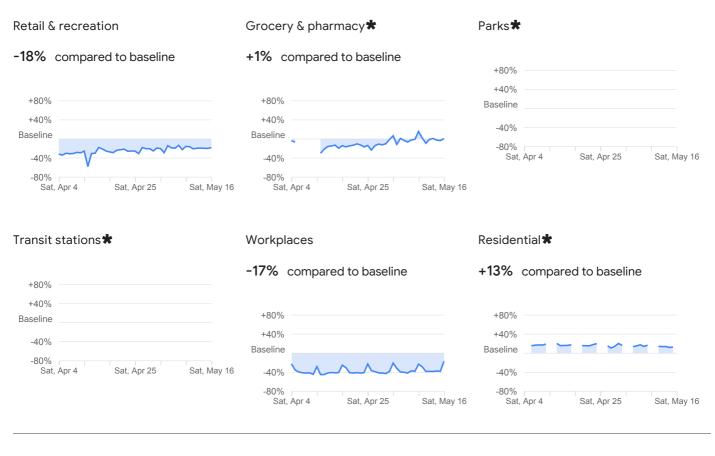
Covington



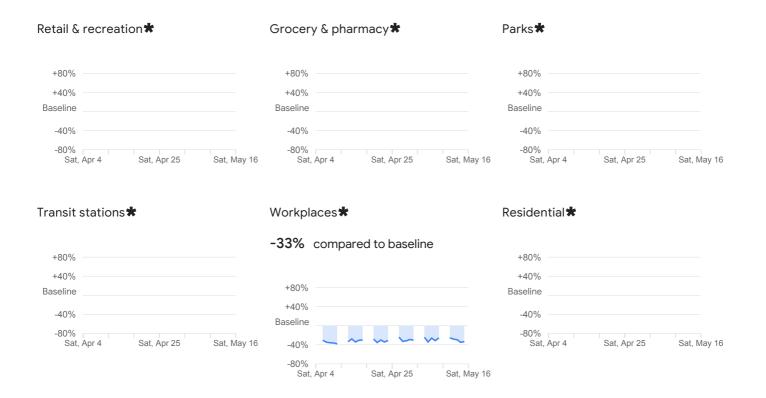


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Culpeper County

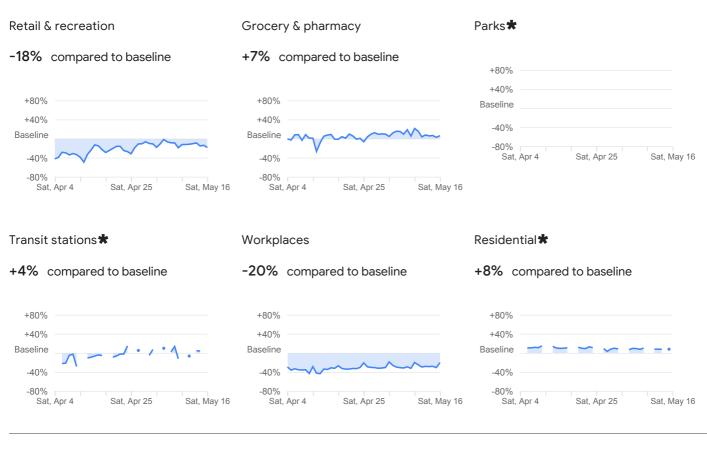


Cumberland County

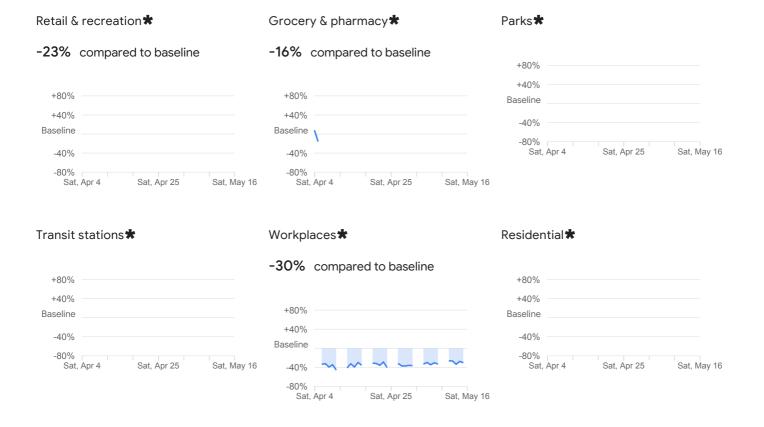


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Danville

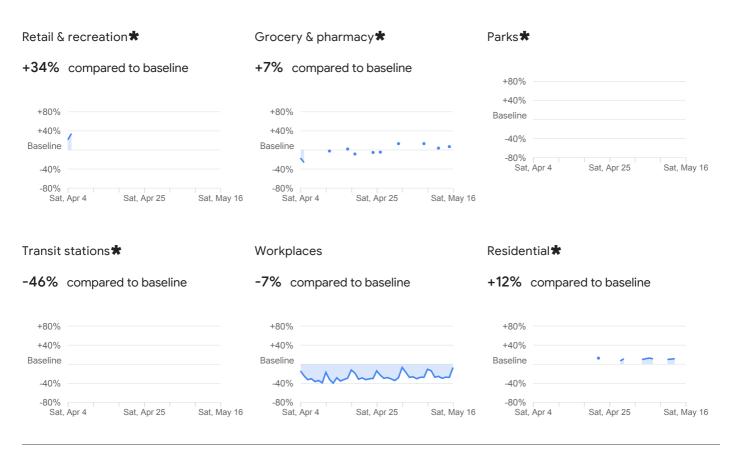


Dickenson County

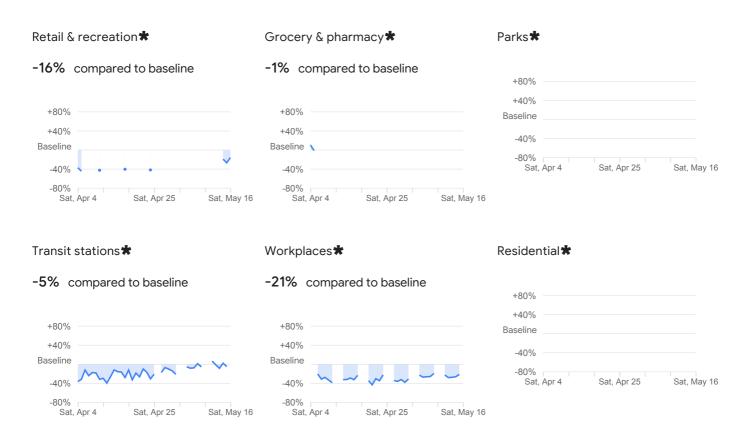


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Dinwiddie County

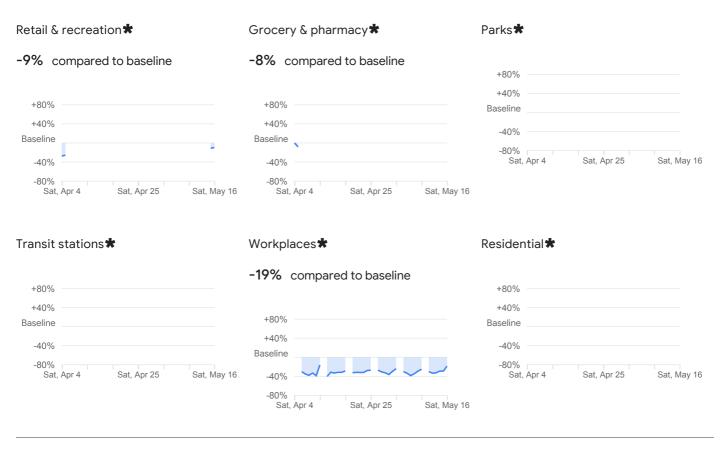


Emporia

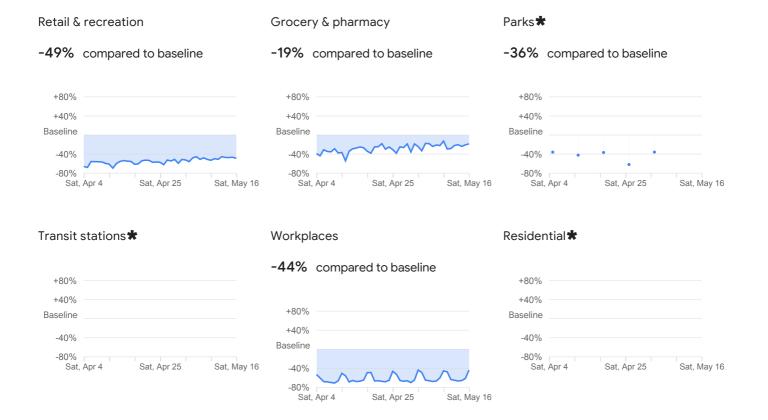


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Essex County

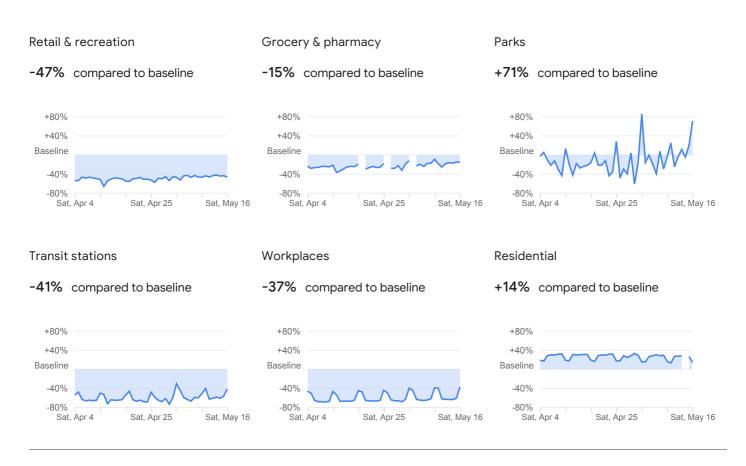


Fairfax

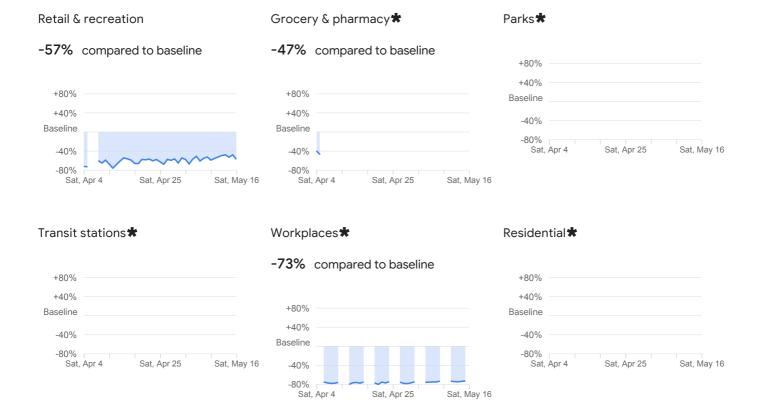


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Fairfax County

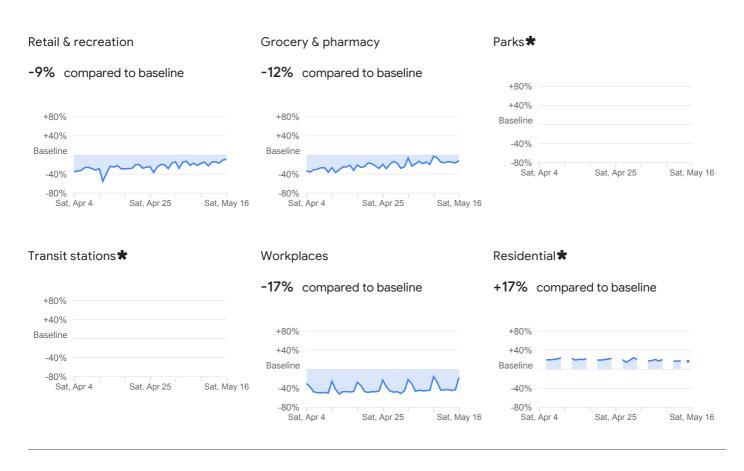


Falls Church

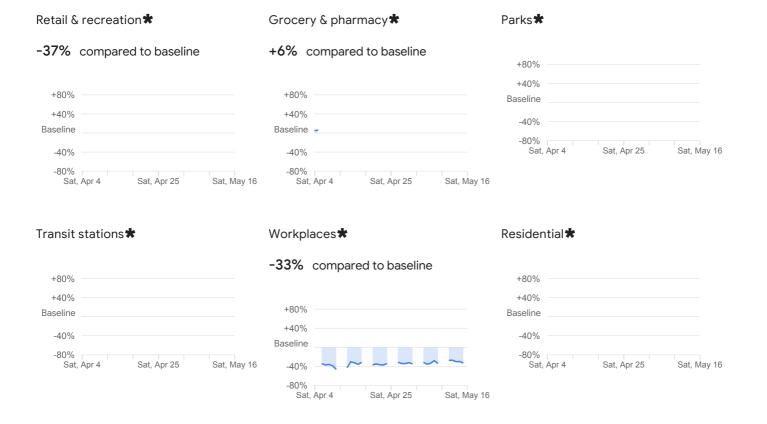


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Fauquier County

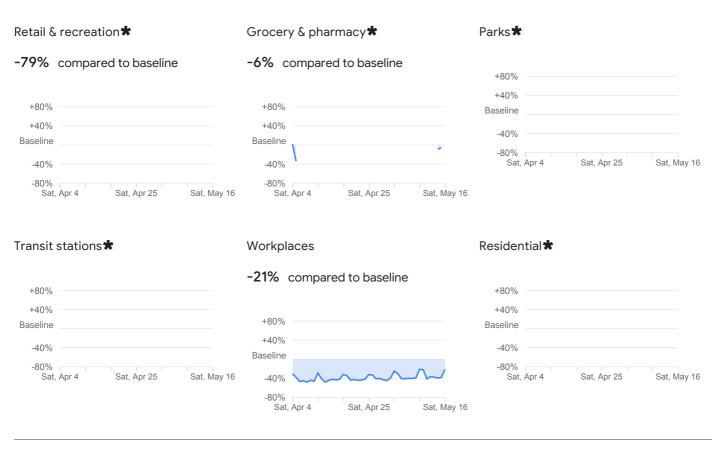


Floyd County

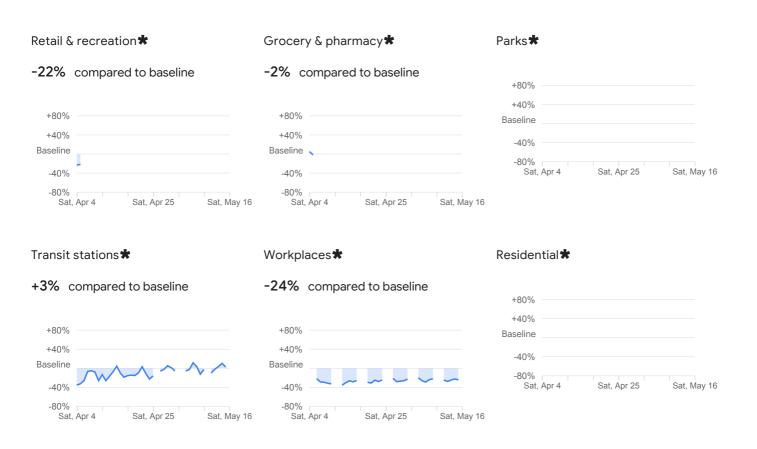


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Fluvanna County

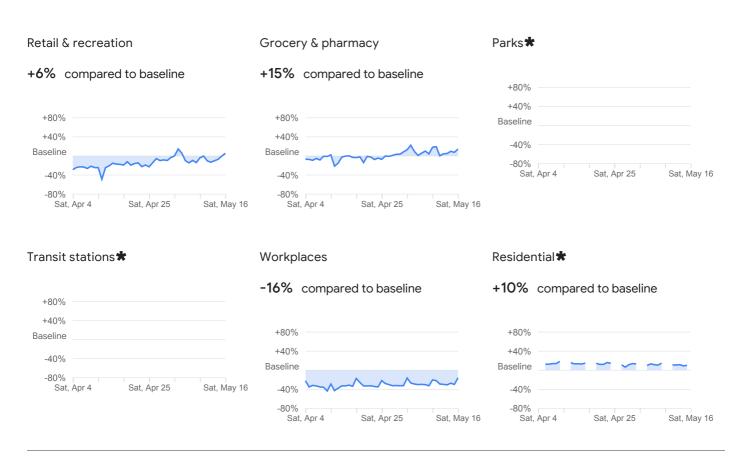


Franklin

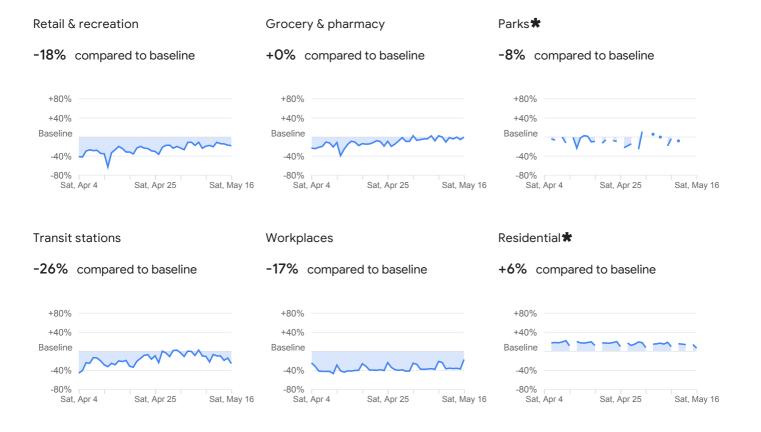


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Franklin County

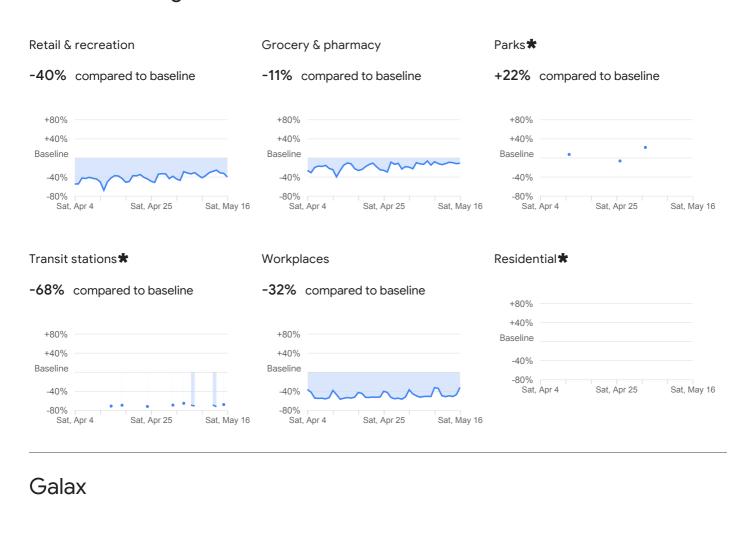


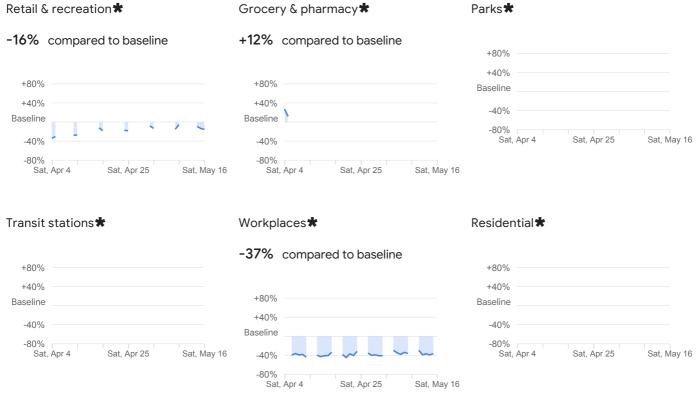
Frederick County



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Fredericksburg

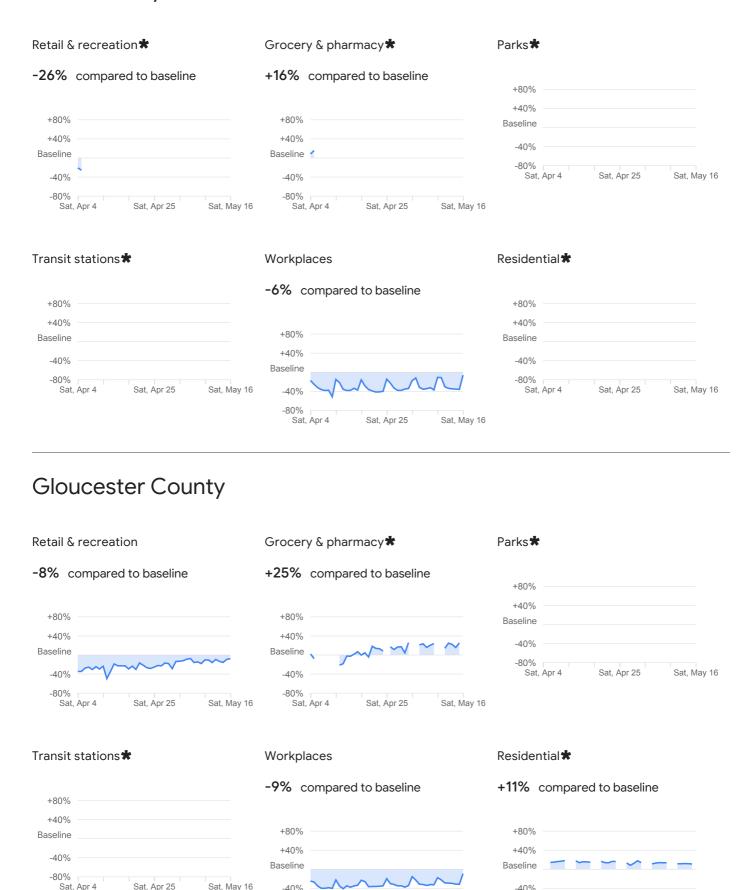




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Giles County

Sat. Apr 4



Sat, Apr 25

-40%

Sat Apr 4

Sat. May 16

Sat, May 16

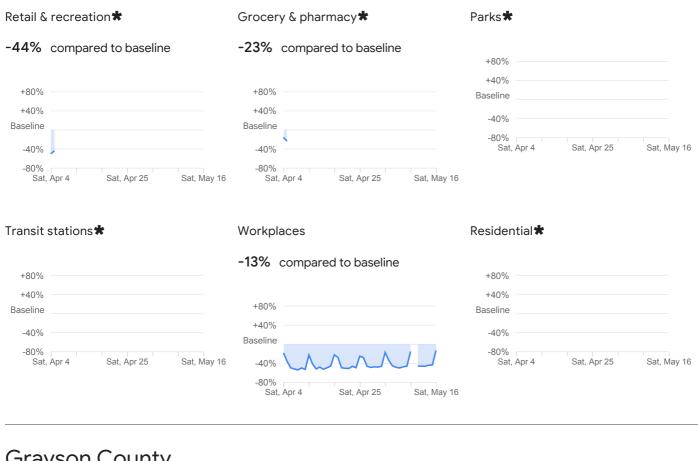
Sat. Apr 25

-40%

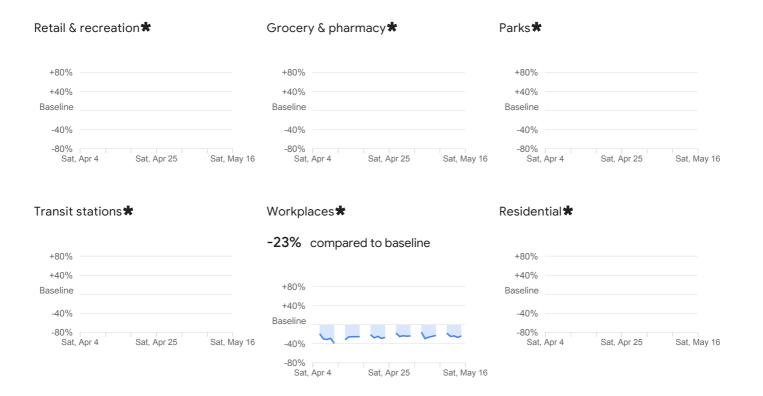
Sat Apr 4

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Goochland County



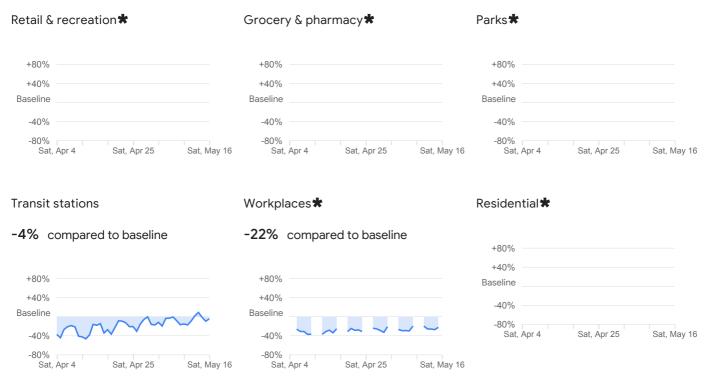
Grayson County



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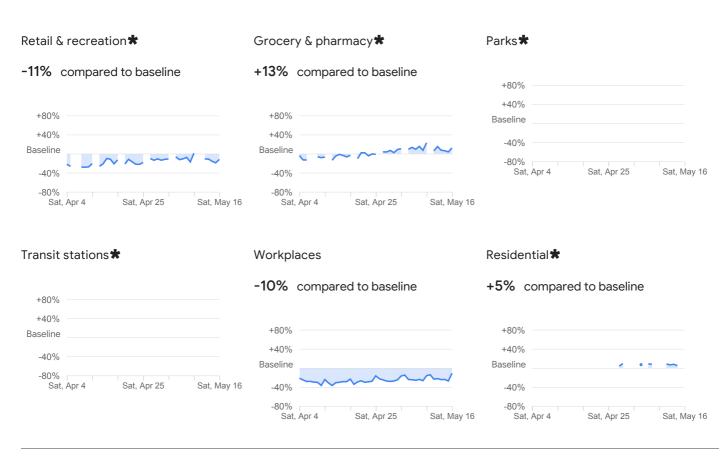
Greene County



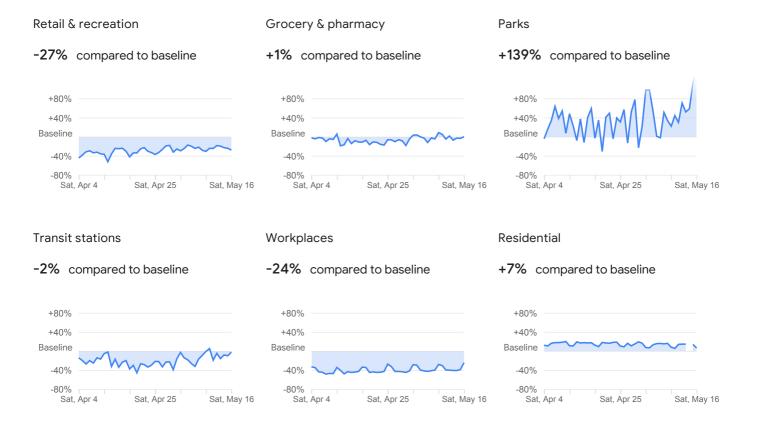


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Halifax County



Hampton



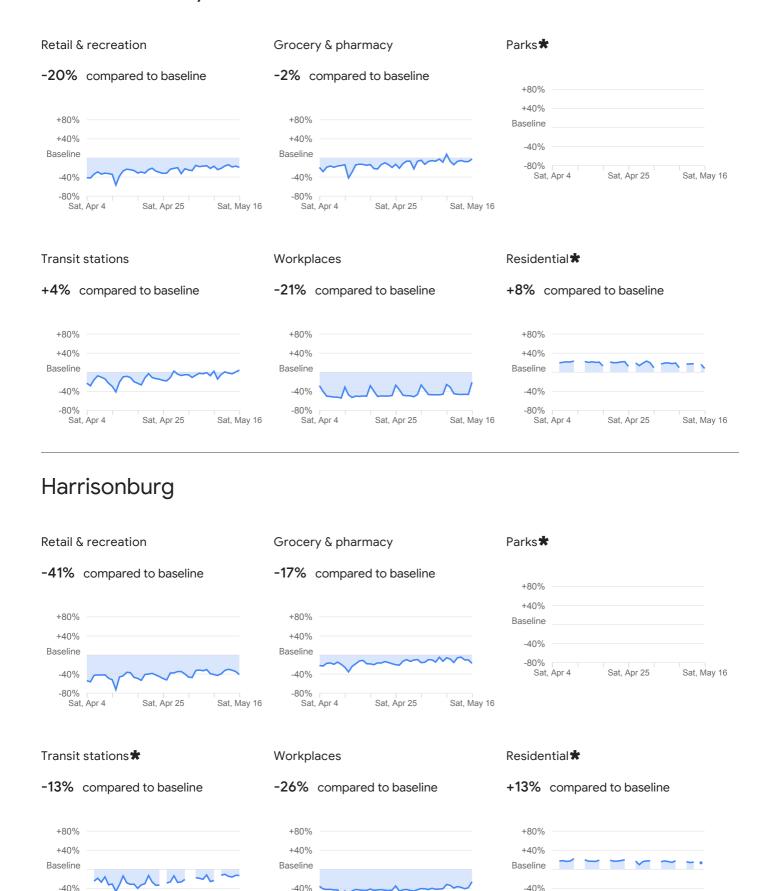
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Hanover County

-80%

Sat Apr 4

Sat. Apr 25



Sat Apr 25

Sat. May 16

Sat Apr 4

Sat, May 16

Sat. Apr 25

-80% Sat, Apr 4

Sat. May 16

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

Henrico County

+80%

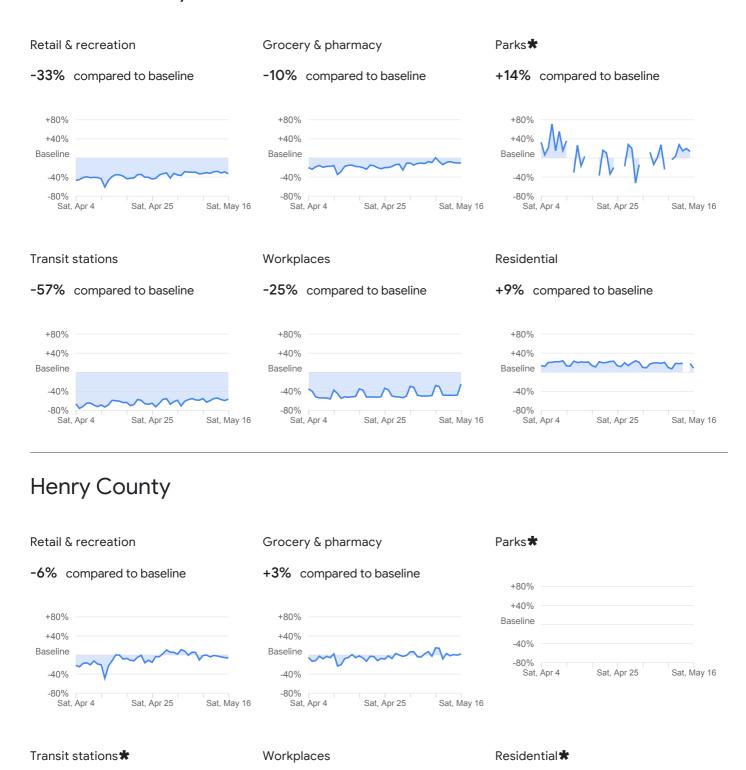
Baseline

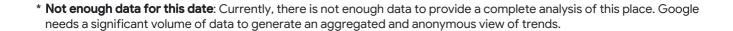
-40%

-80%

Sat. Apr 4

Sat, Apr 25





Sat. Apr 25

-12% compared to baseline

+80%

+40%

-40%

Sat Apr 4

Baseline

Sat, May 16

+10% compared to baseline

Sat. Apr 25

Sat, May 16

+80%

+40%

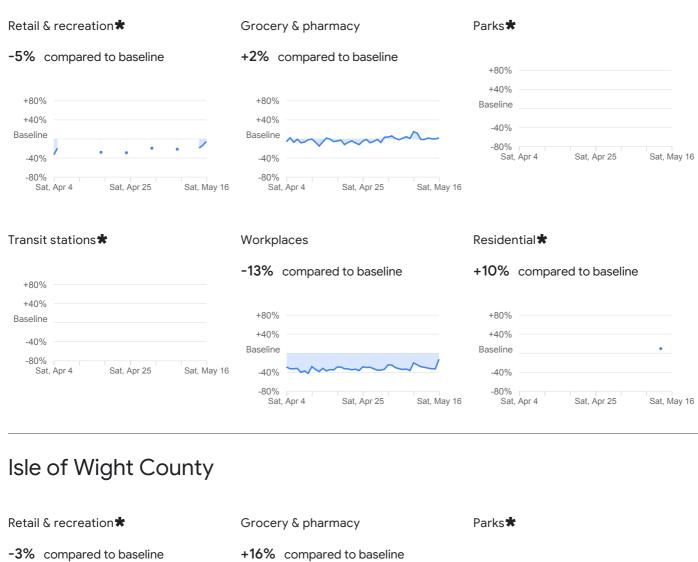
-40% -80%

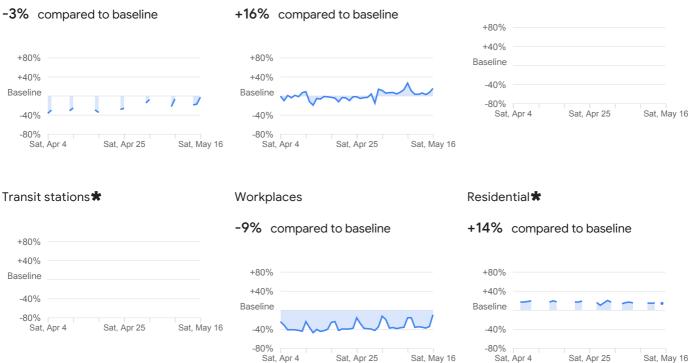
Sat Apr 4

Baseline

Sat. May 16

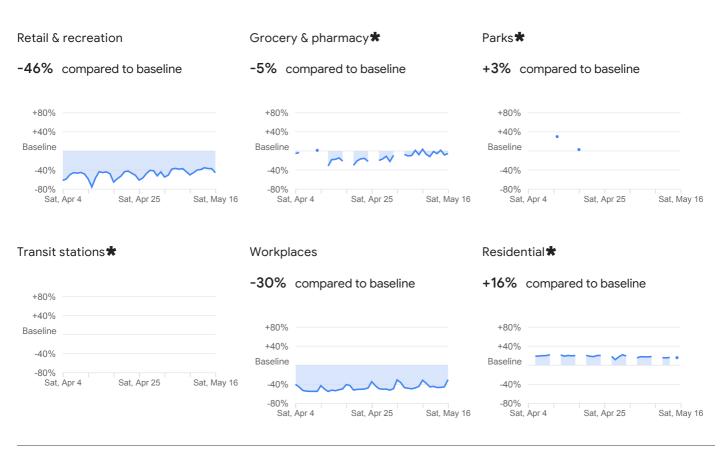
Hopewell



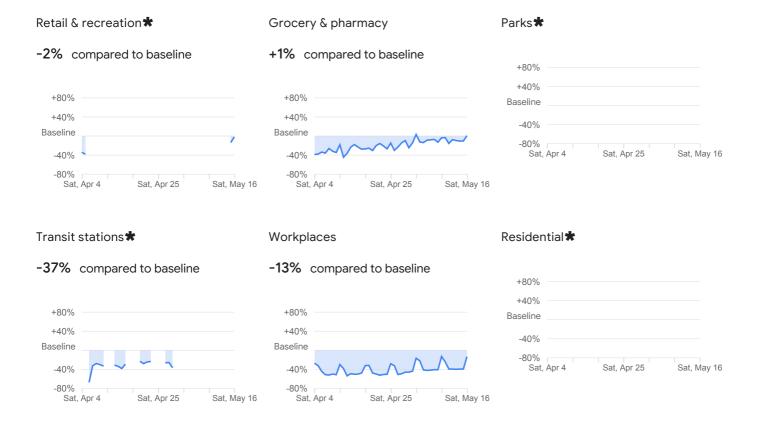


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James City County

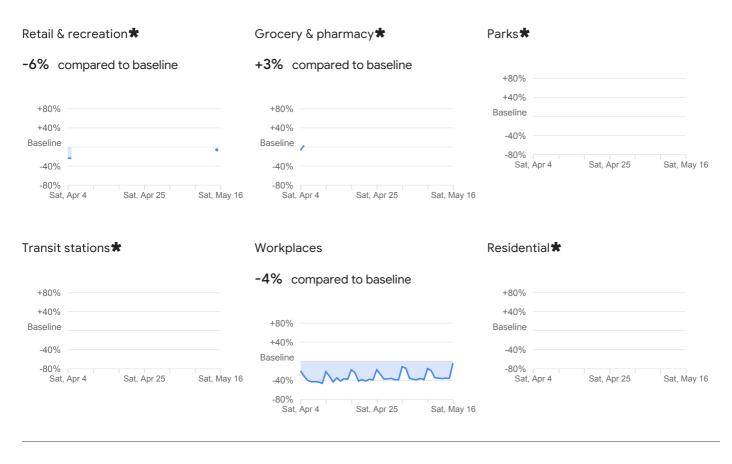


King George County

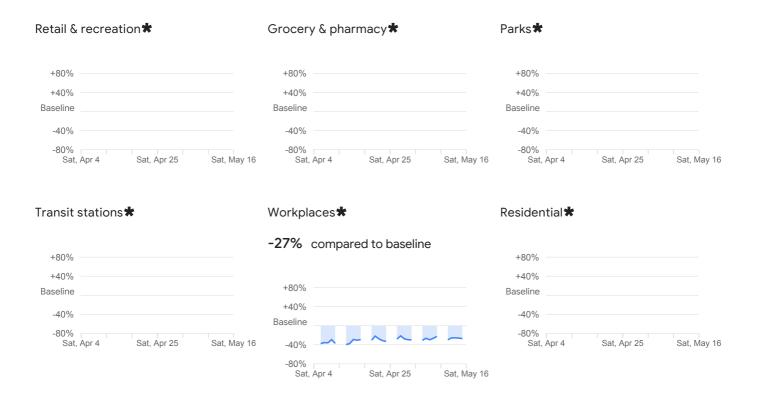


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King William County

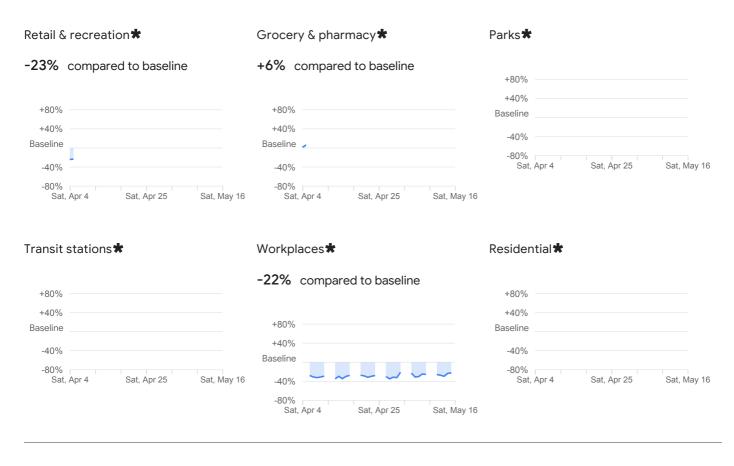


King and Queen County

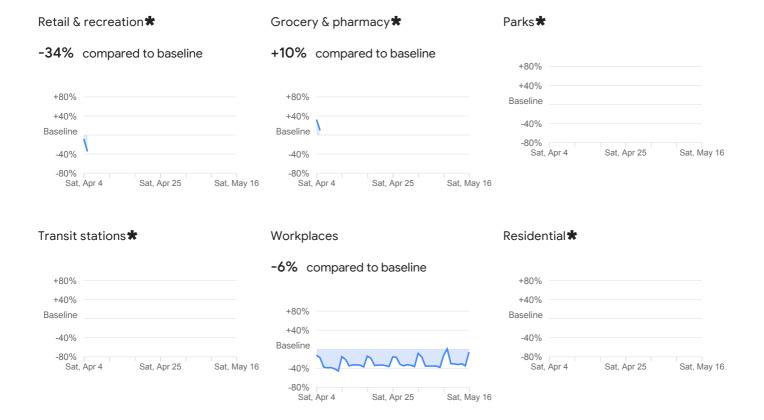


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Lancaster County

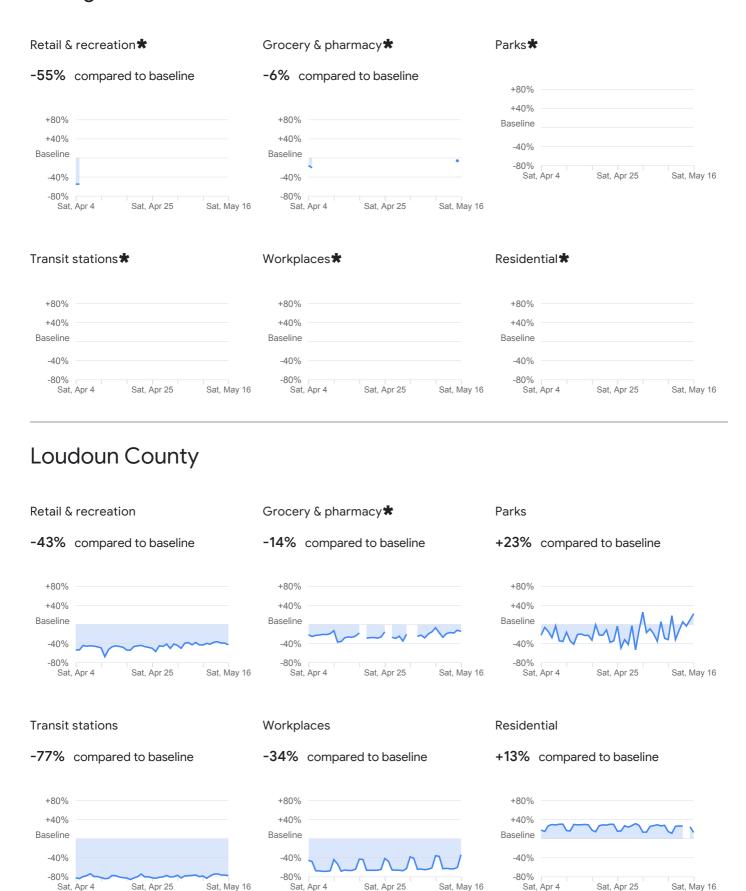


Lee County



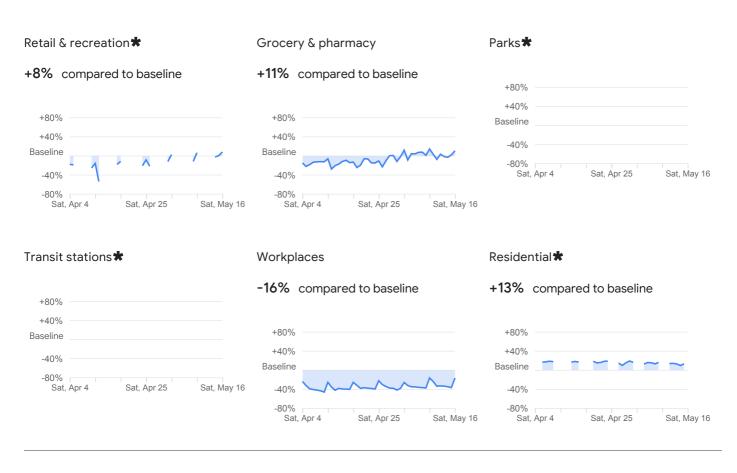
^{*} **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

Lexington

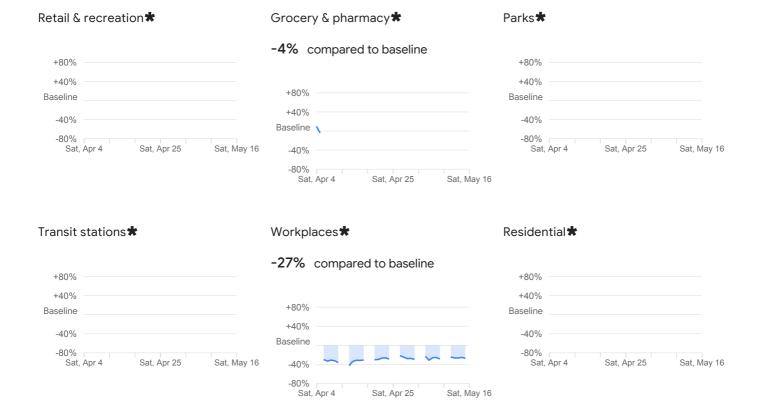


^{*} **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

Louisa County

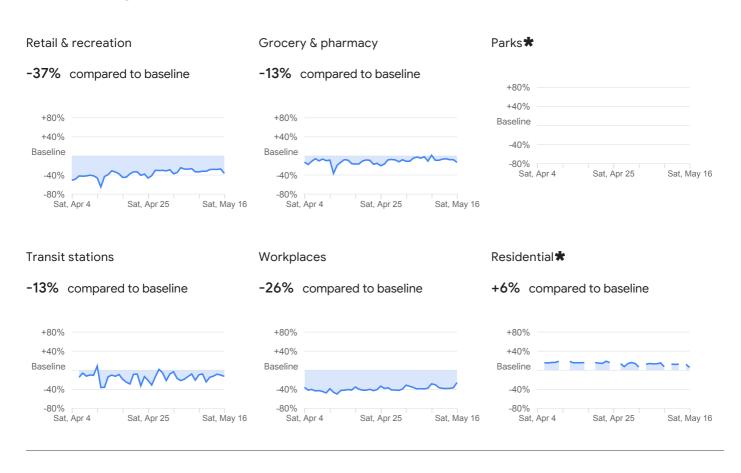


Lunenburg County

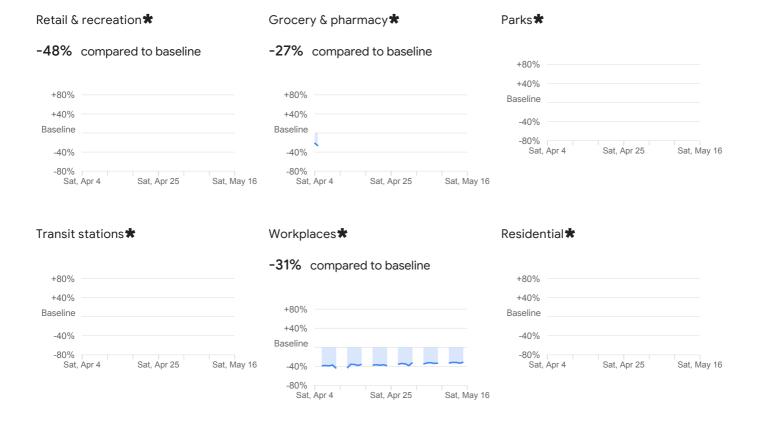


^{*} **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

Lynchburg

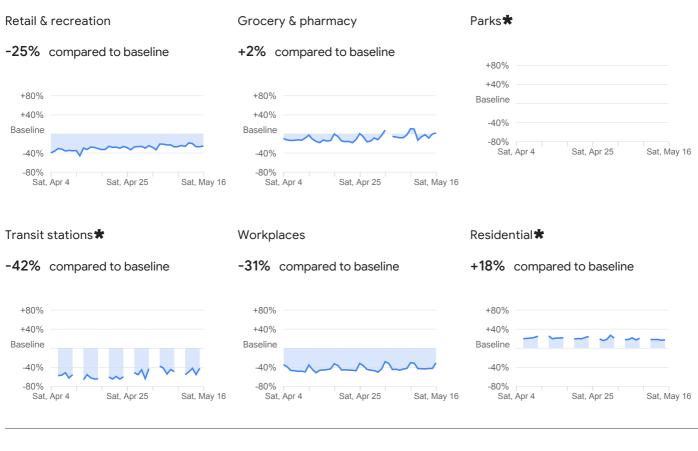


Madison County

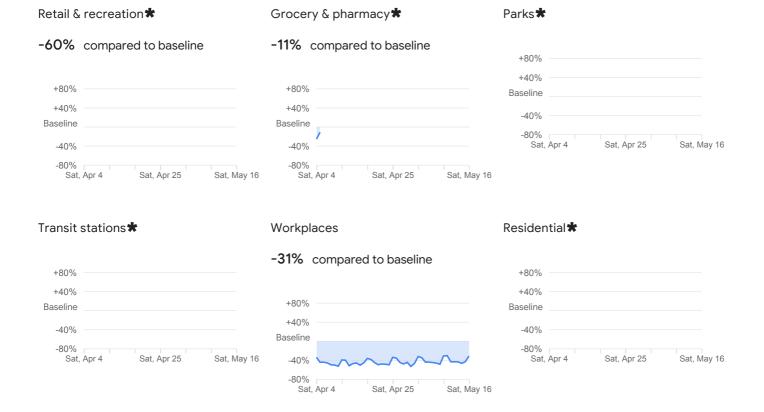


^{*} **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

Manassas



Manassas Park

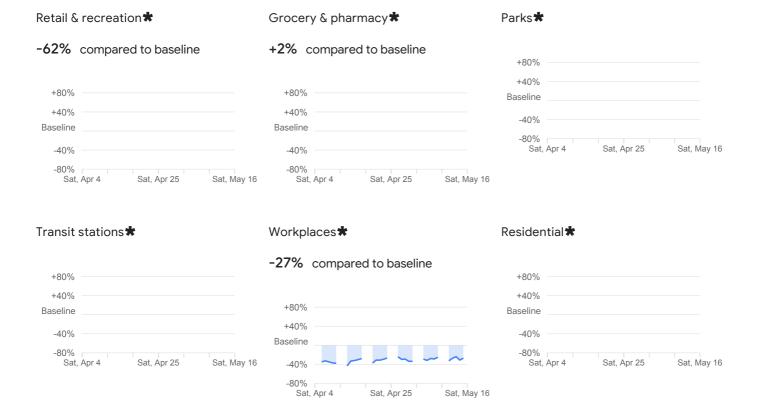


^{*} **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

Martinsville

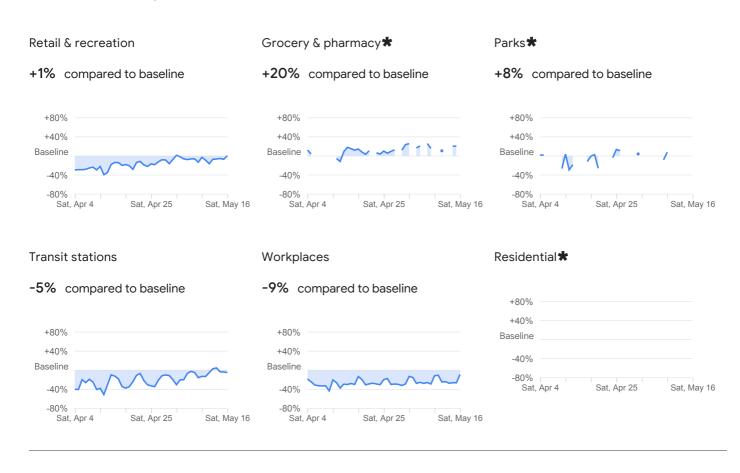


Mathews County

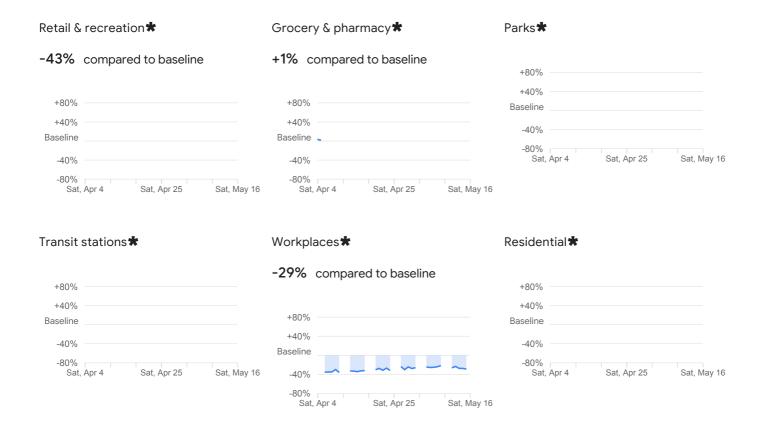


^{*} Not enough data for this date: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

Mecklenburg County

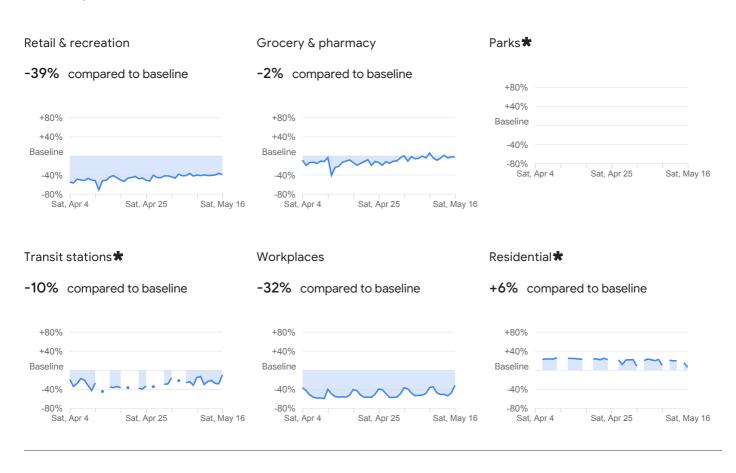


Middlesex County

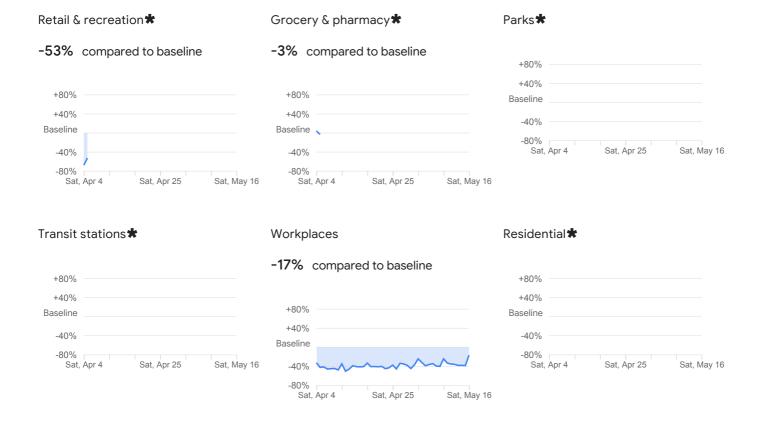


^{*} **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

Montgomery County

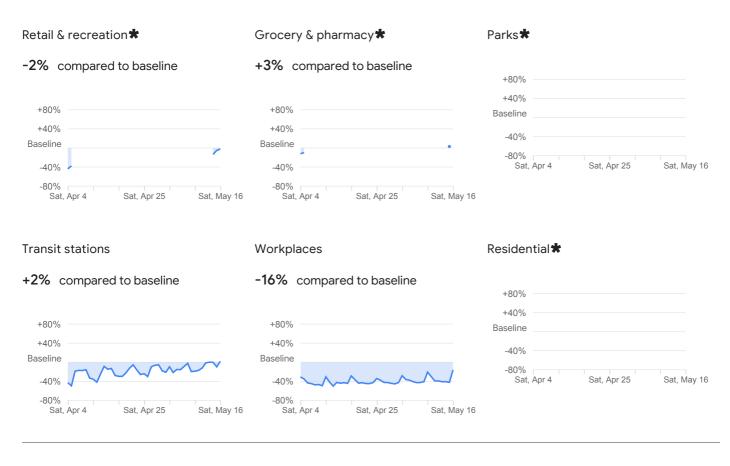


Nelson County

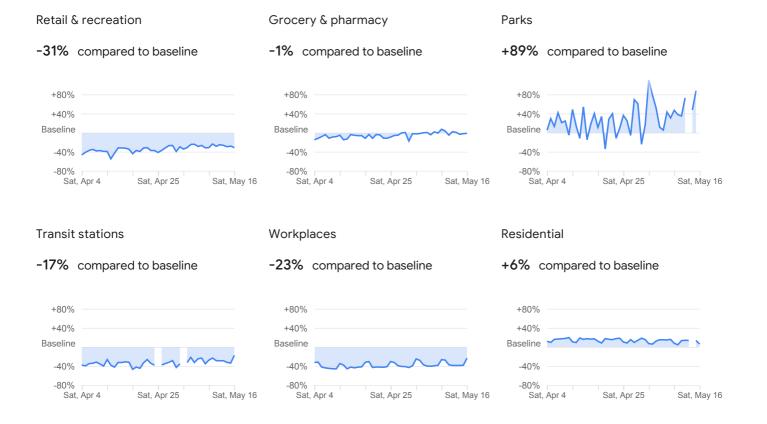


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New Kent County

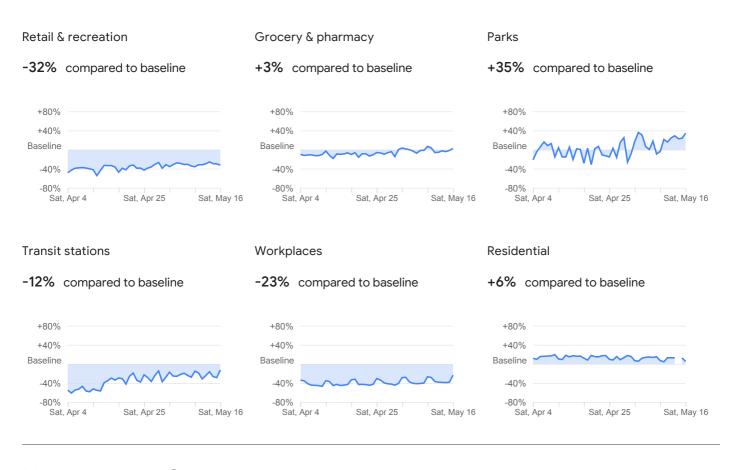


Newport News

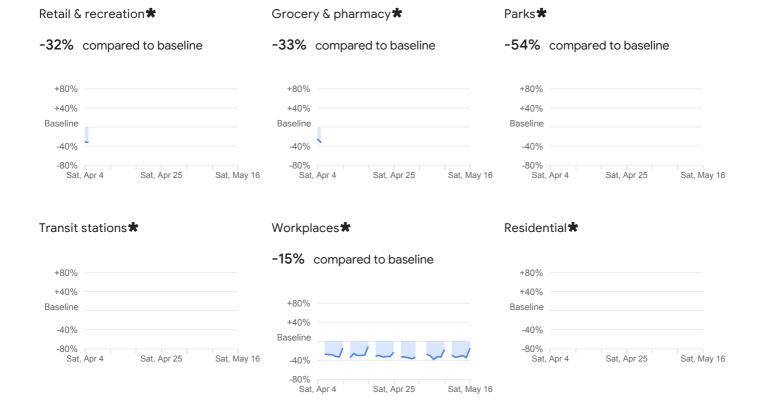


^{*} **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

Norfolk

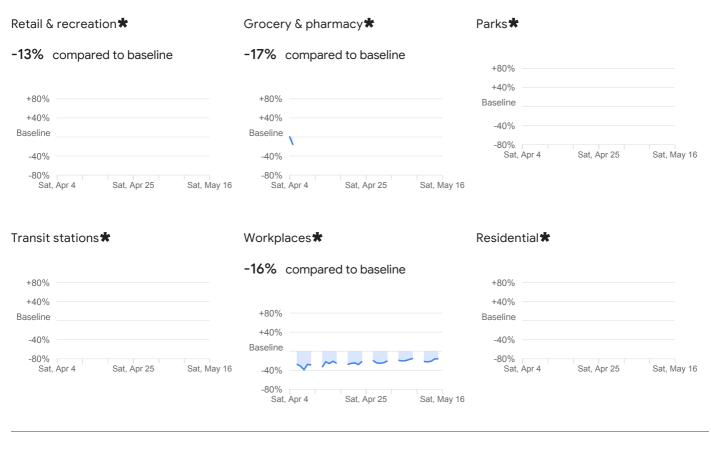


Northampton County

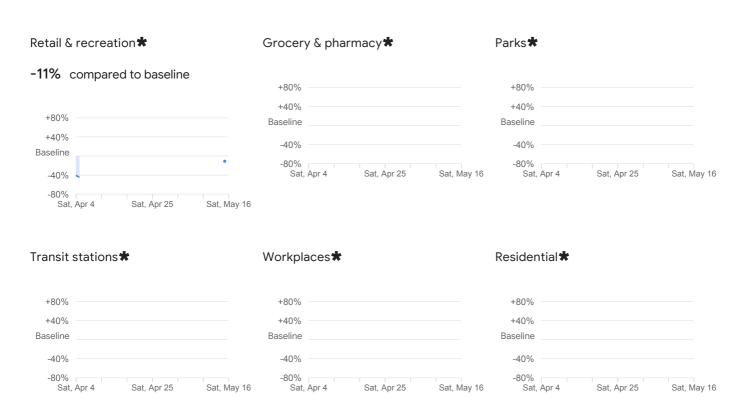


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Northumberland County

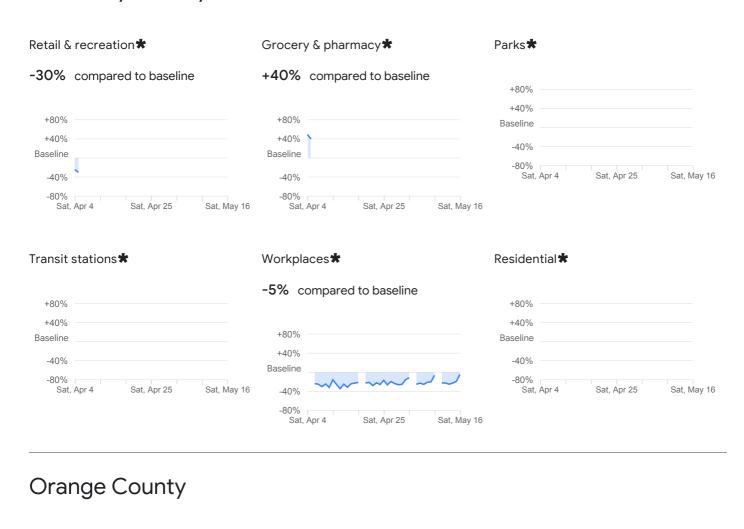


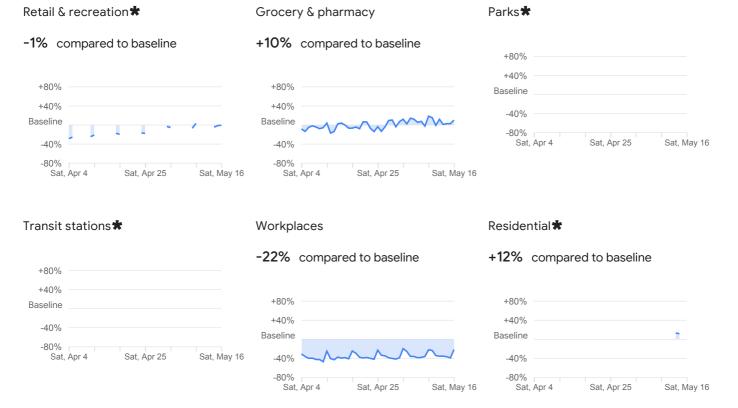
Norton



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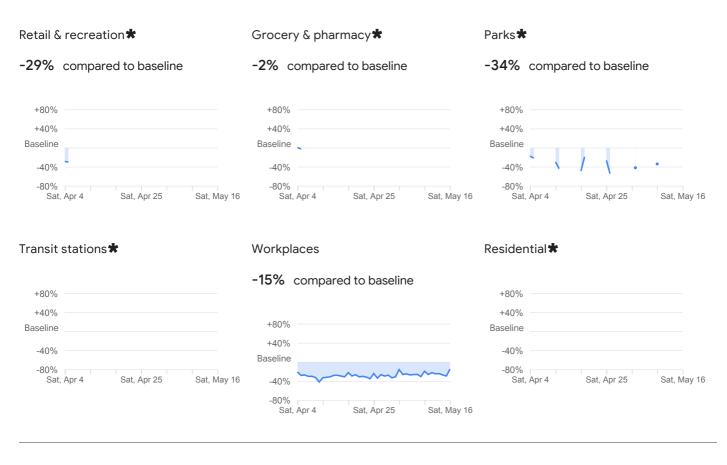
Nottoway County



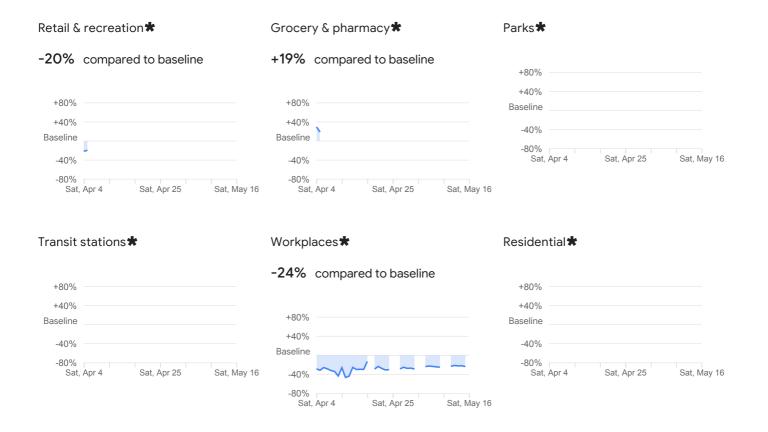


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Page County

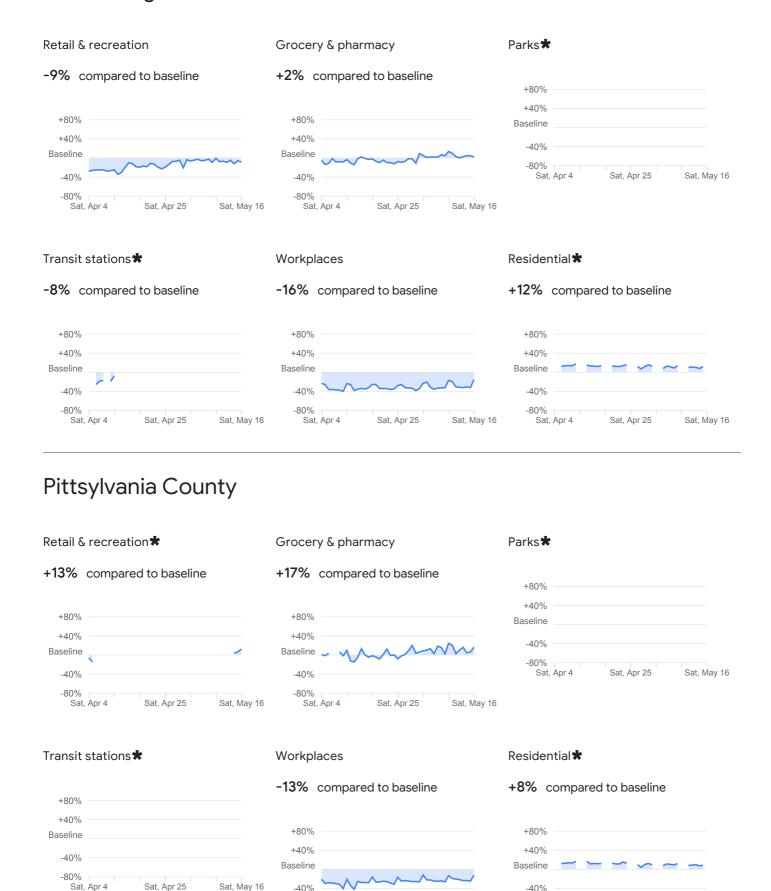


Patrick County



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

Petersburg



Sat. Apr 25

Sat. May 16

Sat Apr 4

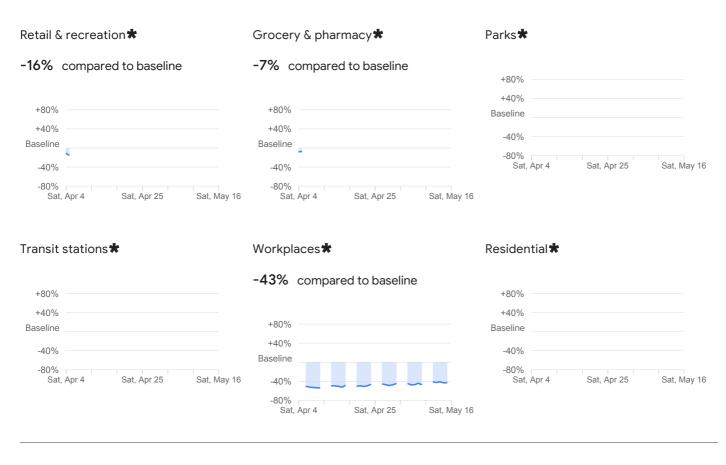
Sat Apr 4

Sat, May 16

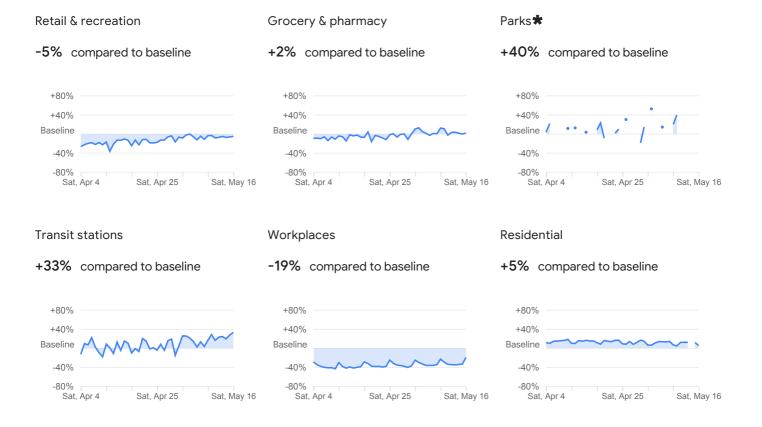
Sat. Apr 25

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

Poquoson

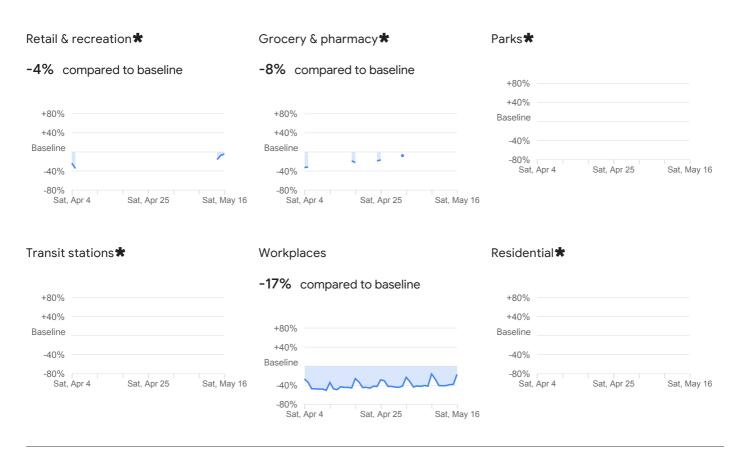


Portsmouth

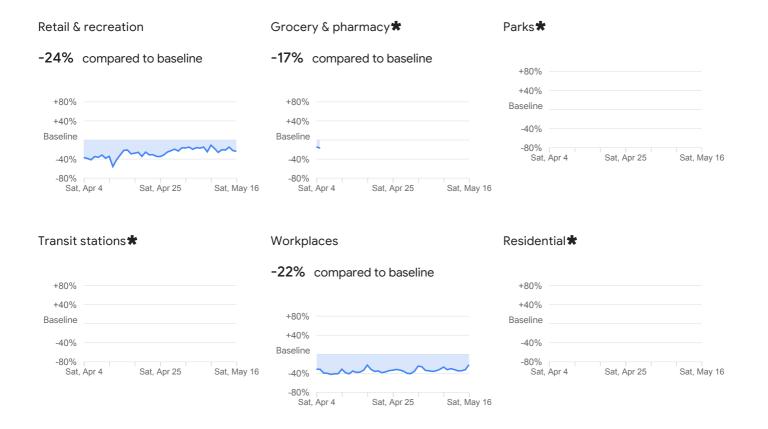


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Powhatan County

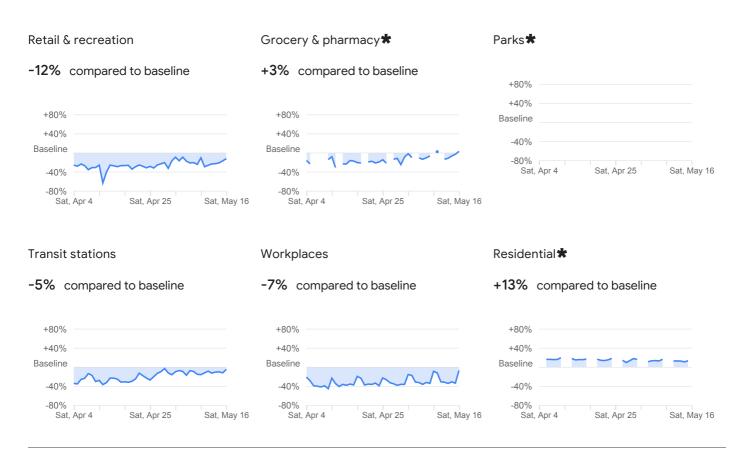


Prince Edward County

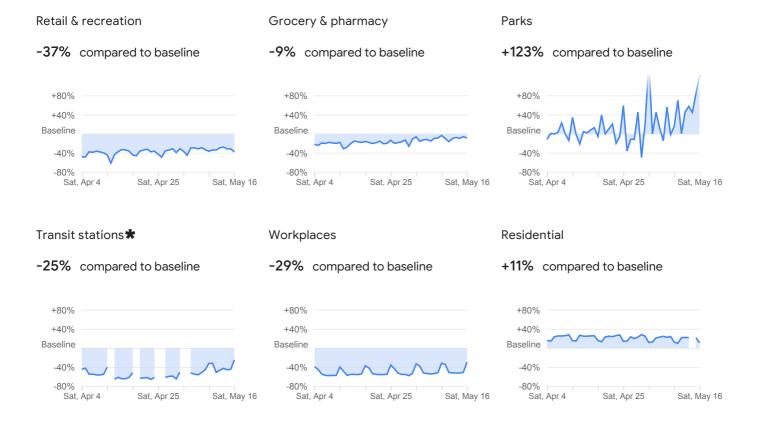


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Prince George County

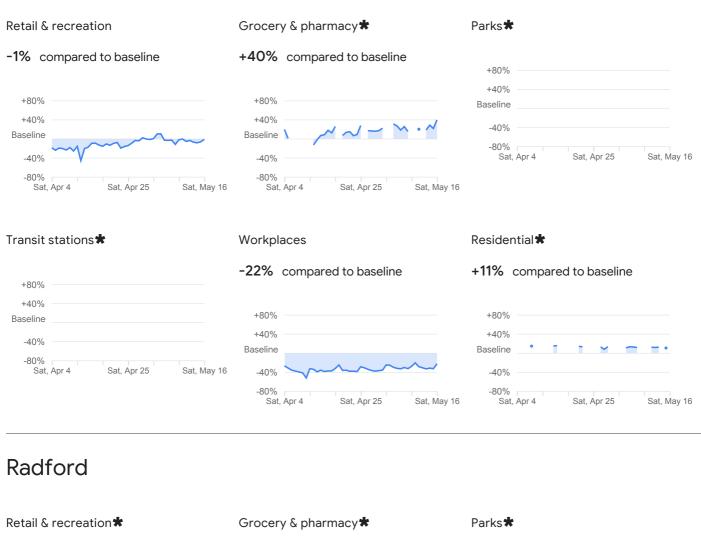


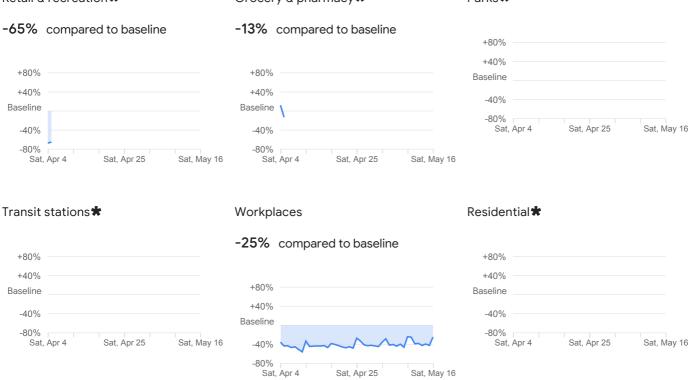
Prince William County



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

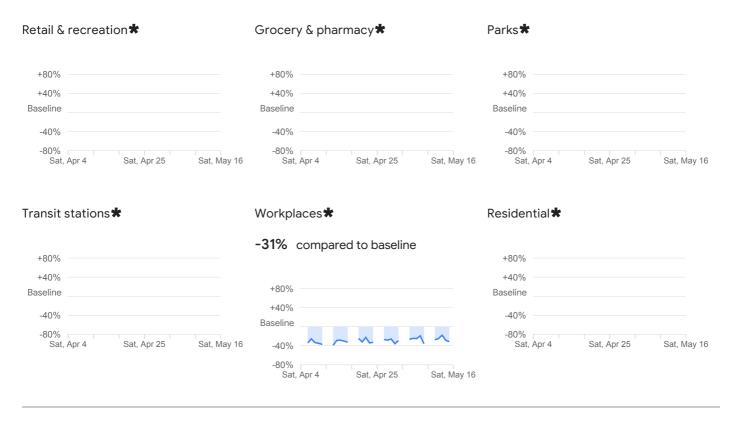
Pulaski County



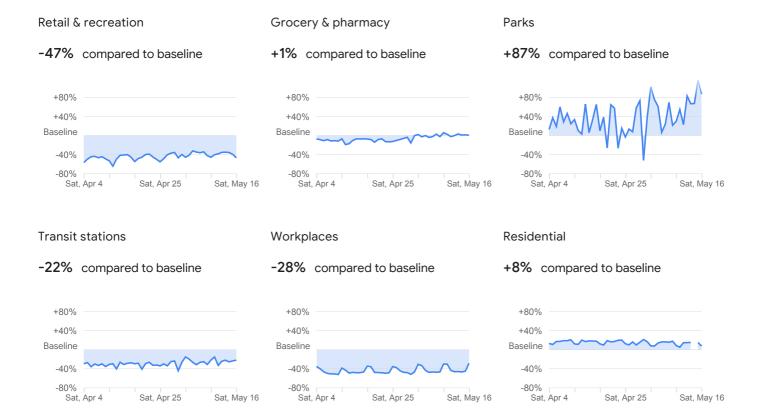


^{*} **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

Rappahannock County

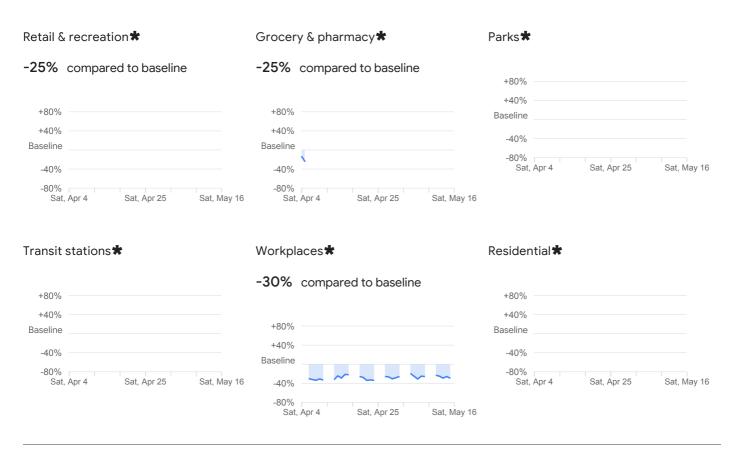


Richmond

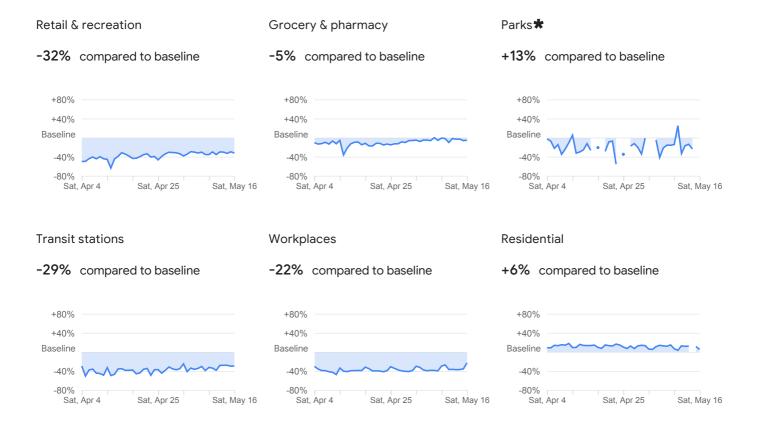


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Richmond County

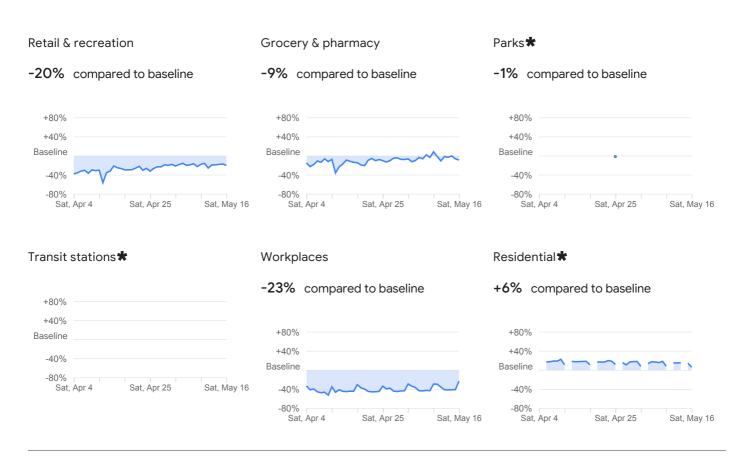


Roanoke

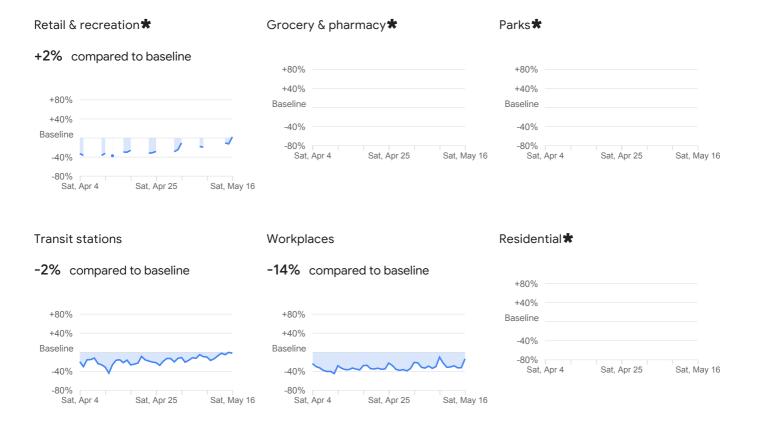


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Roanoke County

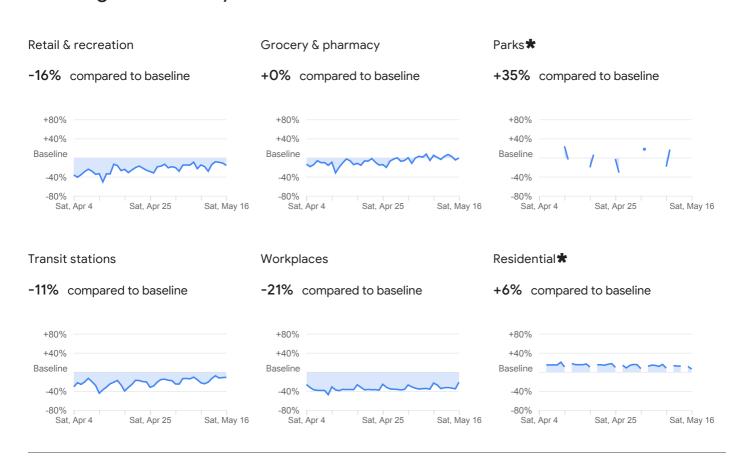


Rockbridge County

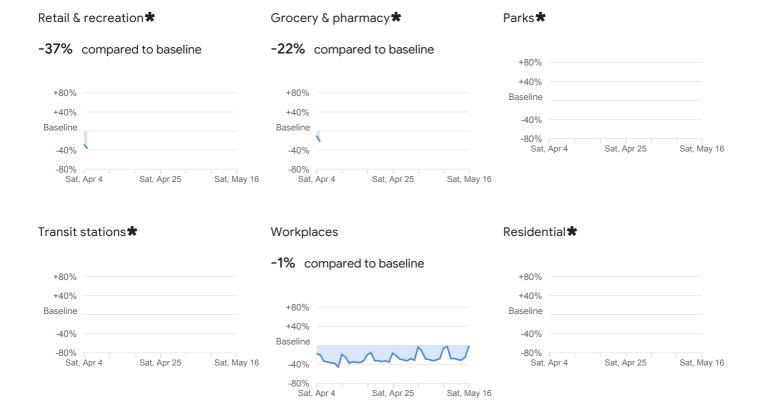


^{*} **Not enough data for this date**: Currently, there is not enough data to provide a complete analysis of this place. Google needs a significant volume of data to generate an aggregated and anonymous view of trends.

Rockingham County

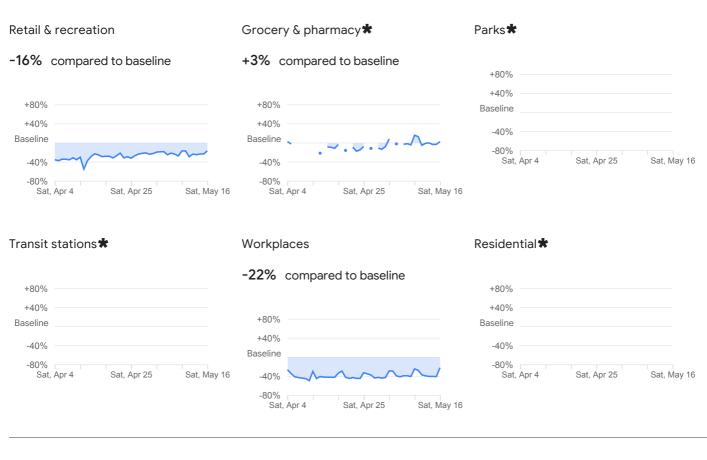


Russell County

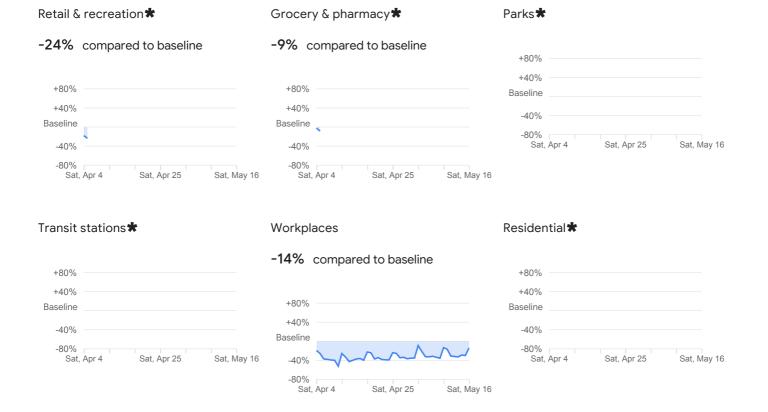


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Salem

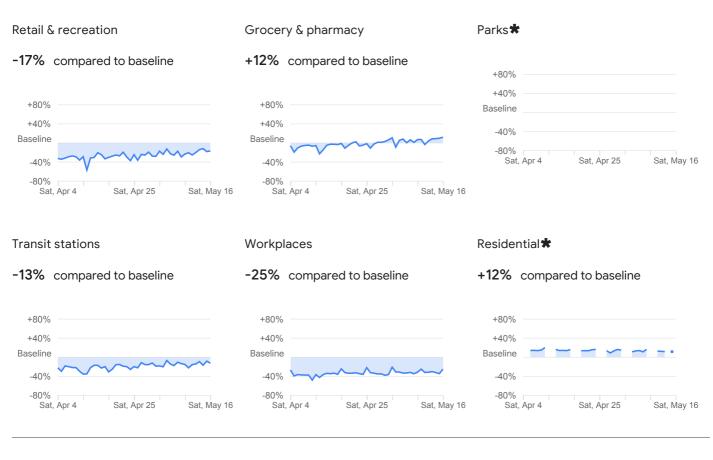


Scott County

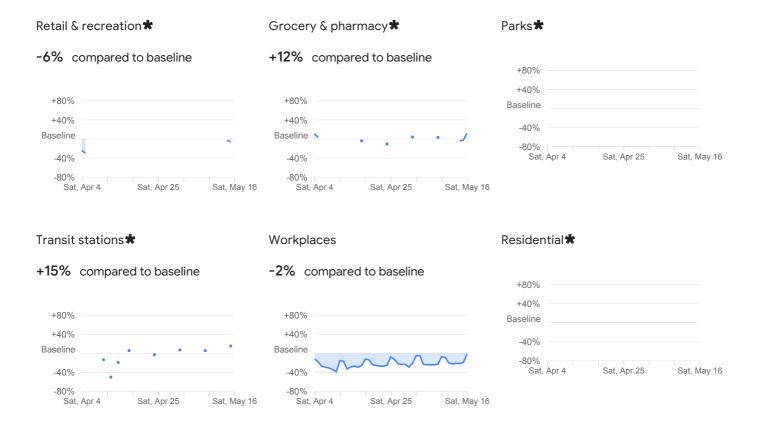


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Shenandoah County

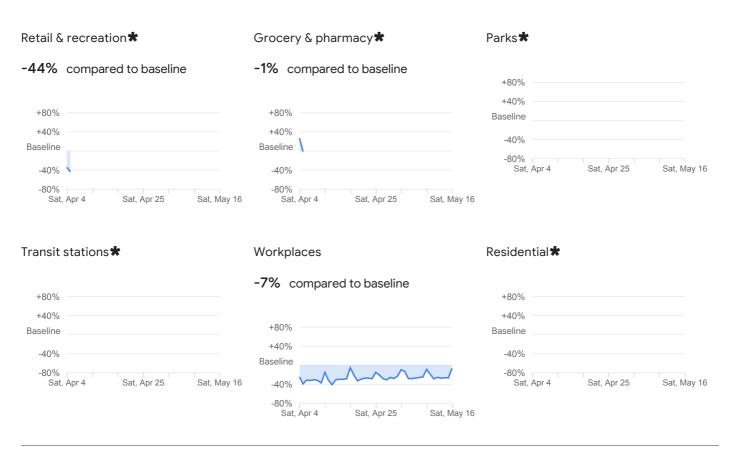


Smyth County

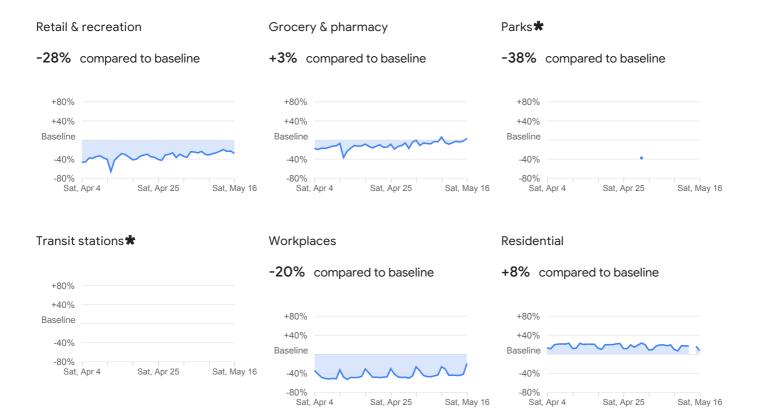


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Southampton County

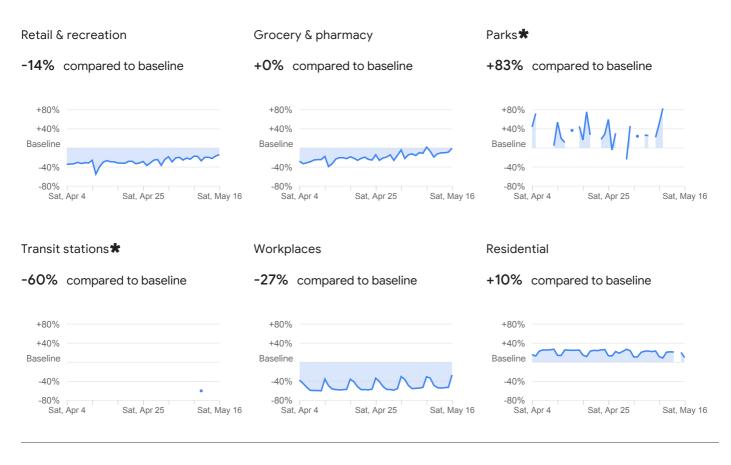


Spotsylvania County

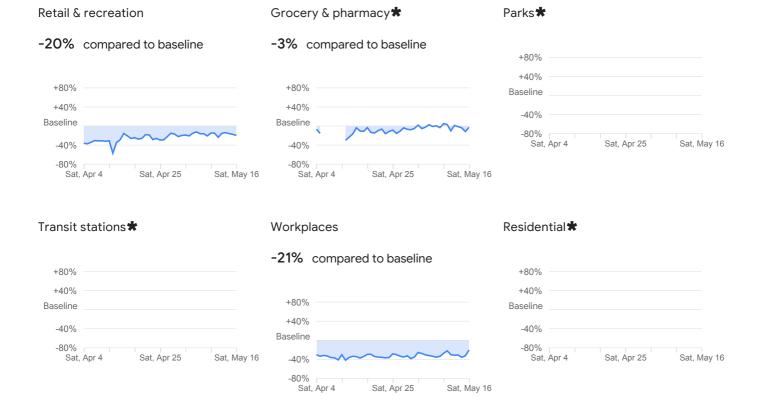


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Stafford County

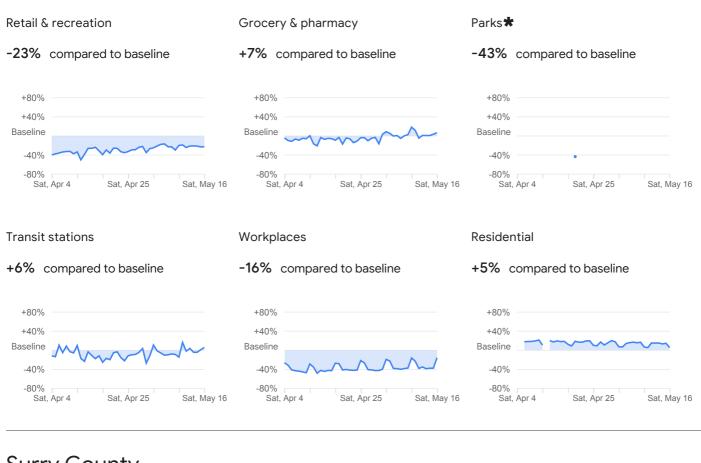


Staunton

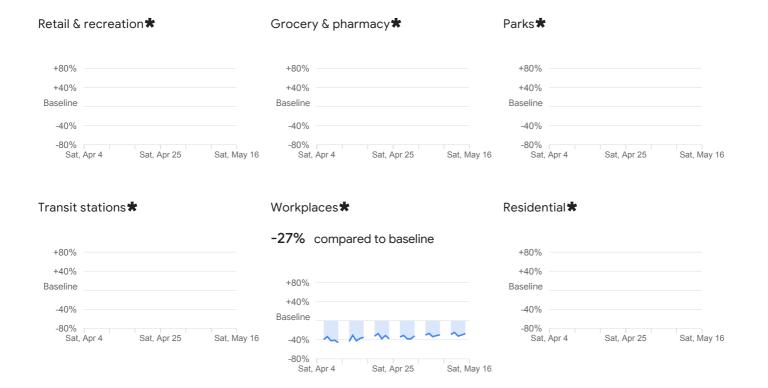


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Suffolk

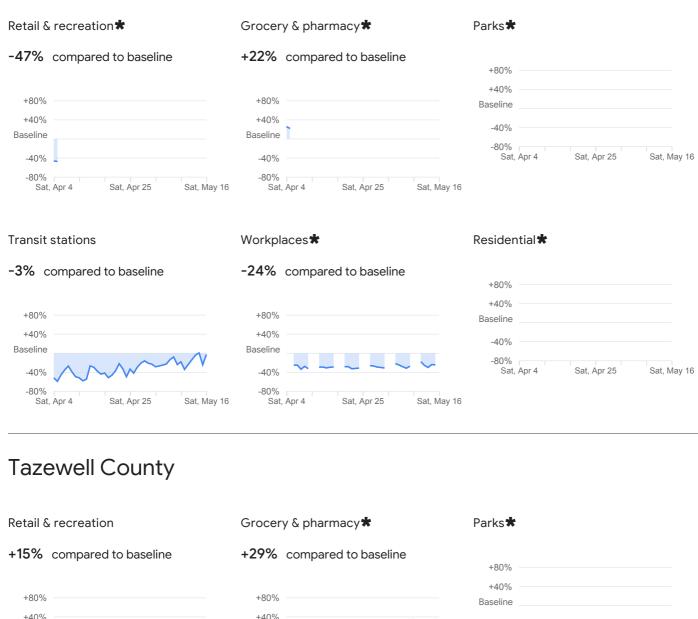


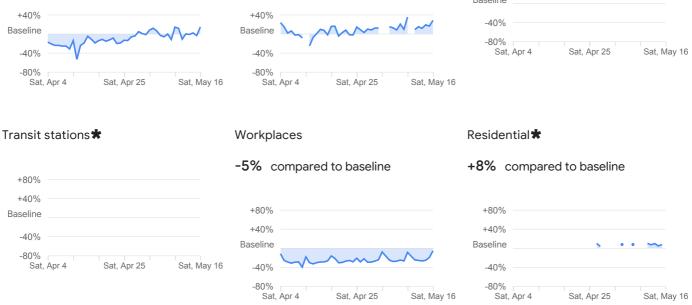
Surry County



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Sussex County





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

Virginia Beach

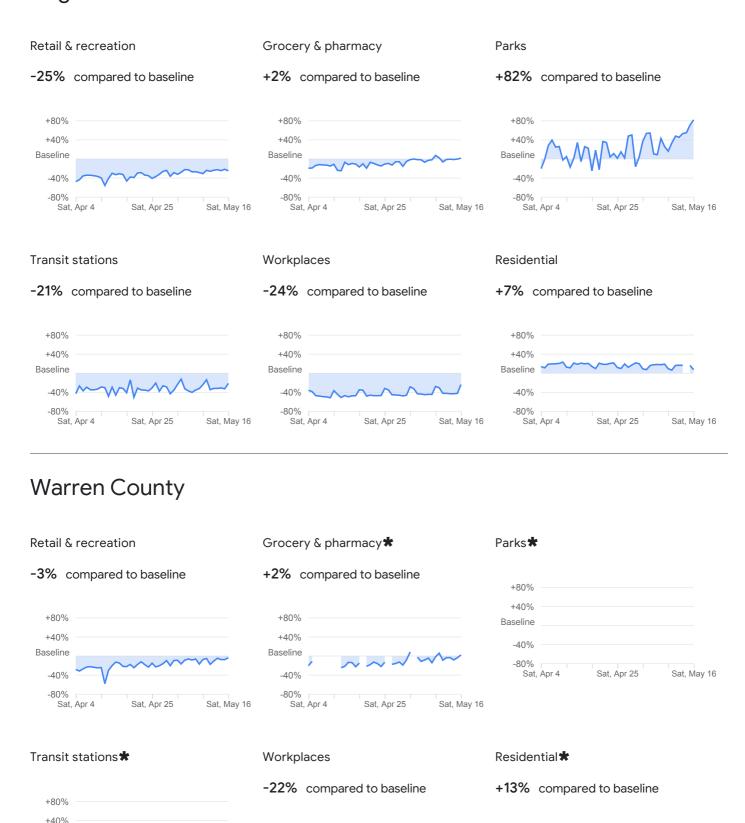
Baseline

-40%

-80%

Sat. Apr 4

Sat, Apr 25



Sat. Apr 25

+80%

+40%

-40%

Sat Apr 4

Sat, May 16

Sat. Apr 25

Baseline

Sat. May 16

+80%

+40%

-40%

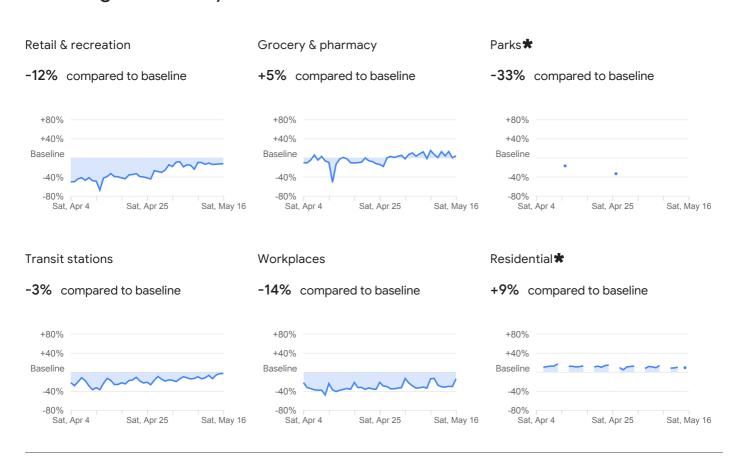
Sat Apr 4

Baseline

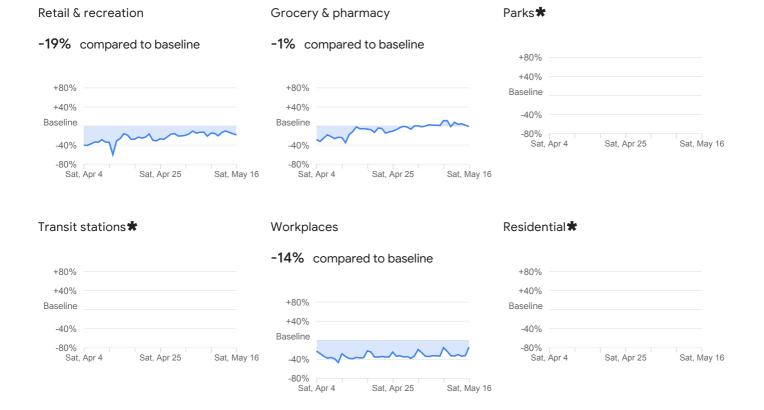
Sat, May 16

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Washington County

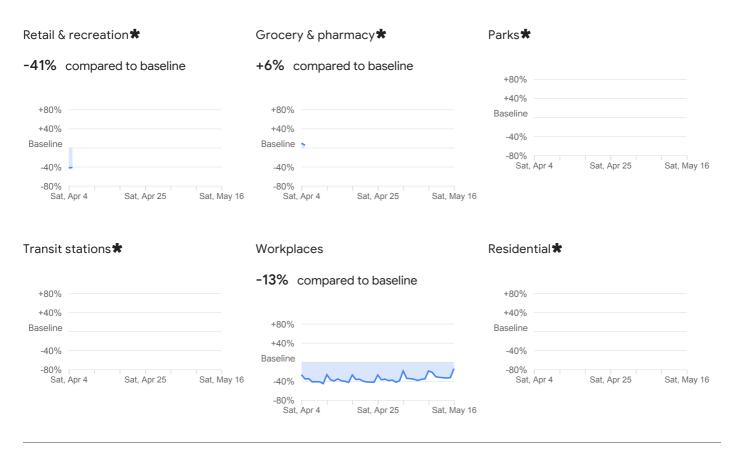


Waynesboro

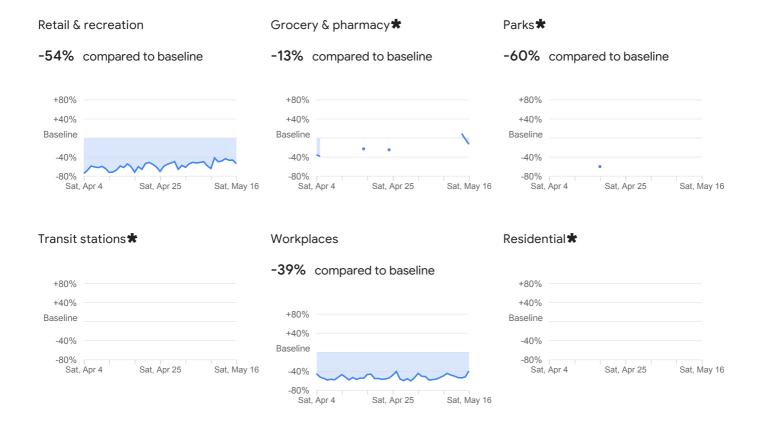


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Westmoreland County

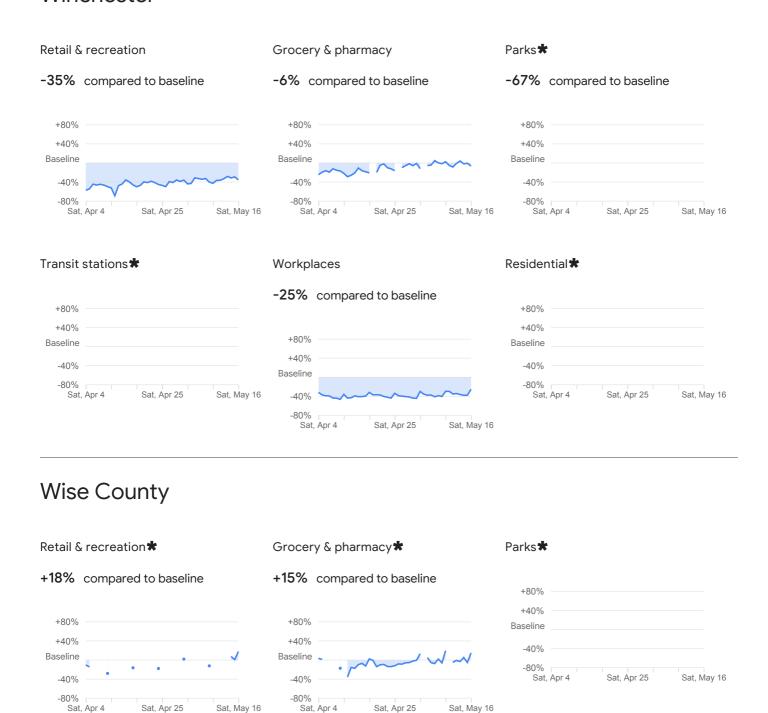


Williamsburg



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Winchester





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

Wythe County

+80%

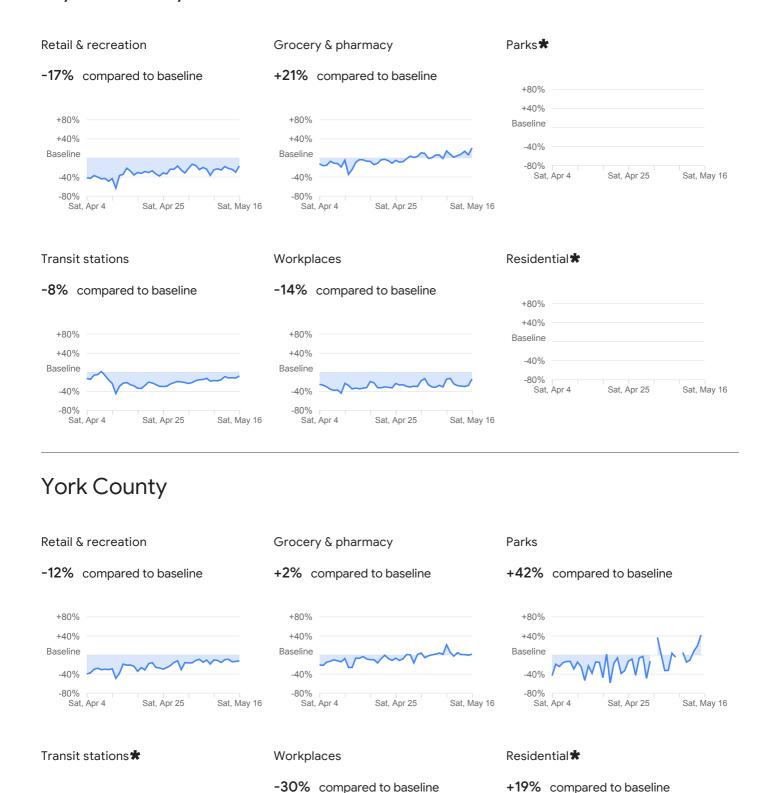
Baseline

-40%

-80%

Sat. Apr 4

Sat, Apr 25



Sat, Apr 25

+80%

+40%

-40% -80%

Sat Apr 4

Sat, Apr 25

Sat, May 16

Baseline

Sat. May 16

+80%

+40%

-40%

Sat Apr 4

Baseline

Sat, May 16

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

About this data

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

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

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

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

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

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

Preserving privacy

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

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

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

Further resources

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

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