CALIFORNIA

Interactive Broadband Map (CalSPEED)

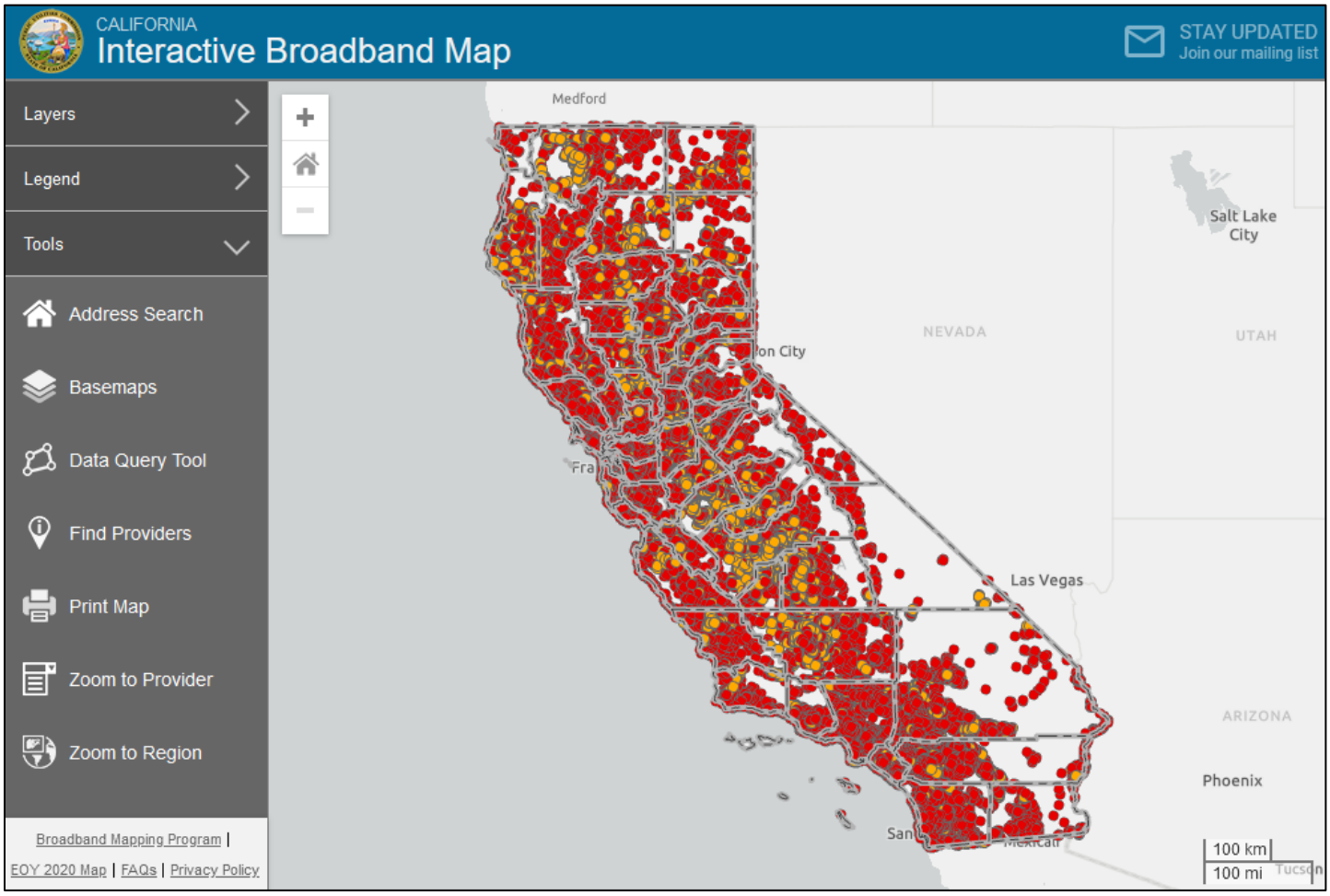
OVERVIEW

This document will assist users in using the California Interactive Broadband Map to access CalSPEED map layers. The map includes different layers that users can switch on and off to show various broadband-related information.

Essentially, this map is a useful tool that uses spatial data to show complex broadband-related information in a clear way. By using geographical context, users can better understand how broadband infrastructure is distributed across California.

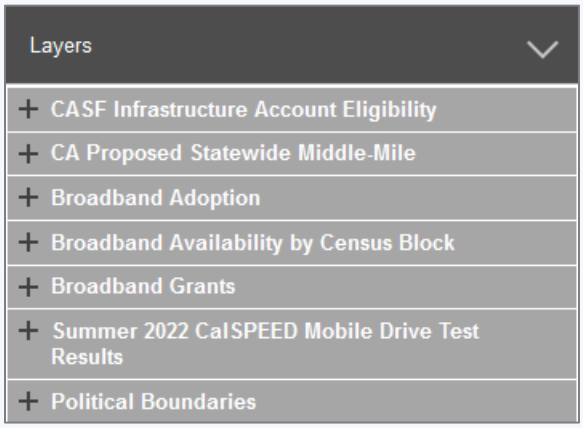
Map Link: California Interactive Broadband Map

Below is a preview of the interactive map that loads by default.



UNDERSTANDING THE MAP LAYOUT AND FEATURES

The interactive map features three drop-down menu selections, each with its own description provided below.

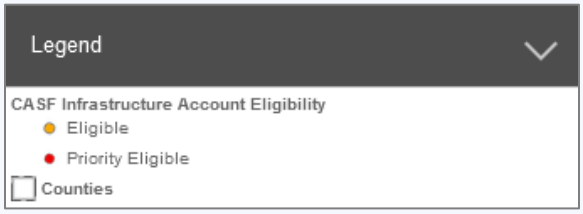


Layers

The Layers menu has seven sub-menus to choose from. You can expand a sub-menu by clicking the **+** icon or anywhere on the rectangle with the layer name. Once expanded, you'll see a **–** icon, and clicking it will collapse the sub-menu.

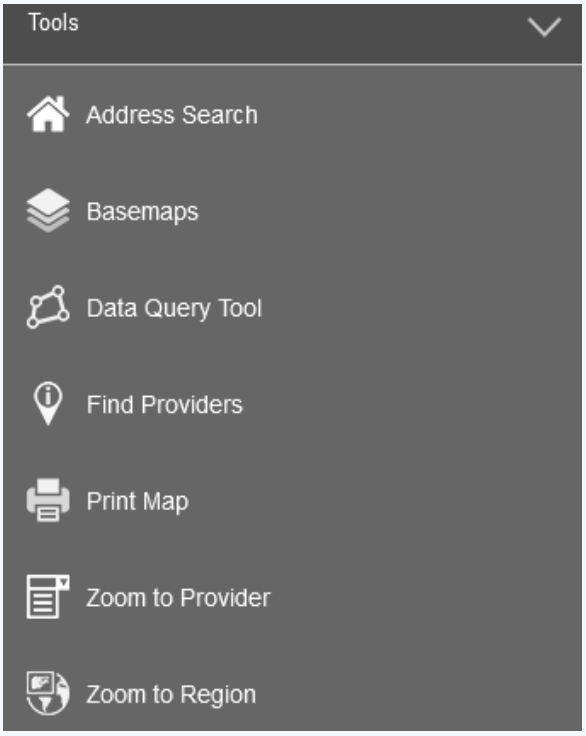
In each sub-menu, you can turn a layer ON by clicking its checkbox.

Blue square means the layer is ON ■, while a white square means it's OFF □



Legend

The Legend updates automatically to show all layers that are currently turned ON. This example shows the two layers that are ON by default when you open the broadband interactive map.



Tools

Address Search – You can search for a postal address and receive a list of broadband providers serving that address, along with other information, including for both fixed and mobile broadband service providers. Additionally, you can use this tool to send feedback on a specific address.

Basemaps – You can change the map background between light, dark, satellite, and terrain views.

Data Query Tool – You can choose features by point, line, polygon, or by drawing a circle.

Find Providers – Find providers nearest to the point you select on the map.

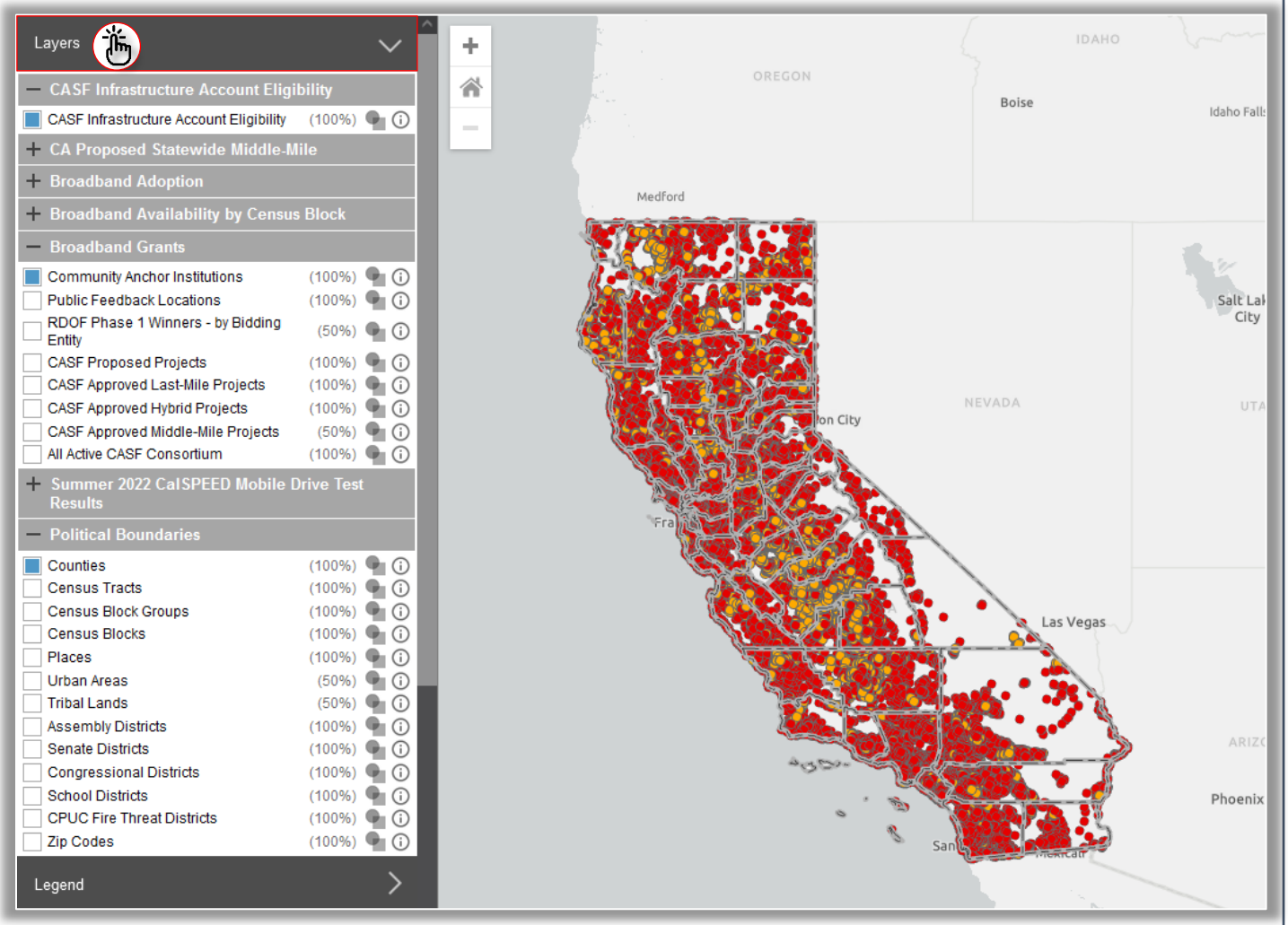
Print Map – Make a print layout with the map, legend, north arrow, and scalebar.

Zoom to Provider – Zoom in on a specific provider after filtering by data type.

Zoom to Region – Zoom to different regions like senate districts, congressional districts, assembly districts, counties, census blocks, and more.

HOW TO DISPLAY CALSPEED LAYERS (STEP-BY-STEP)

Step 1 Turn OFF Any Unwanted Layers

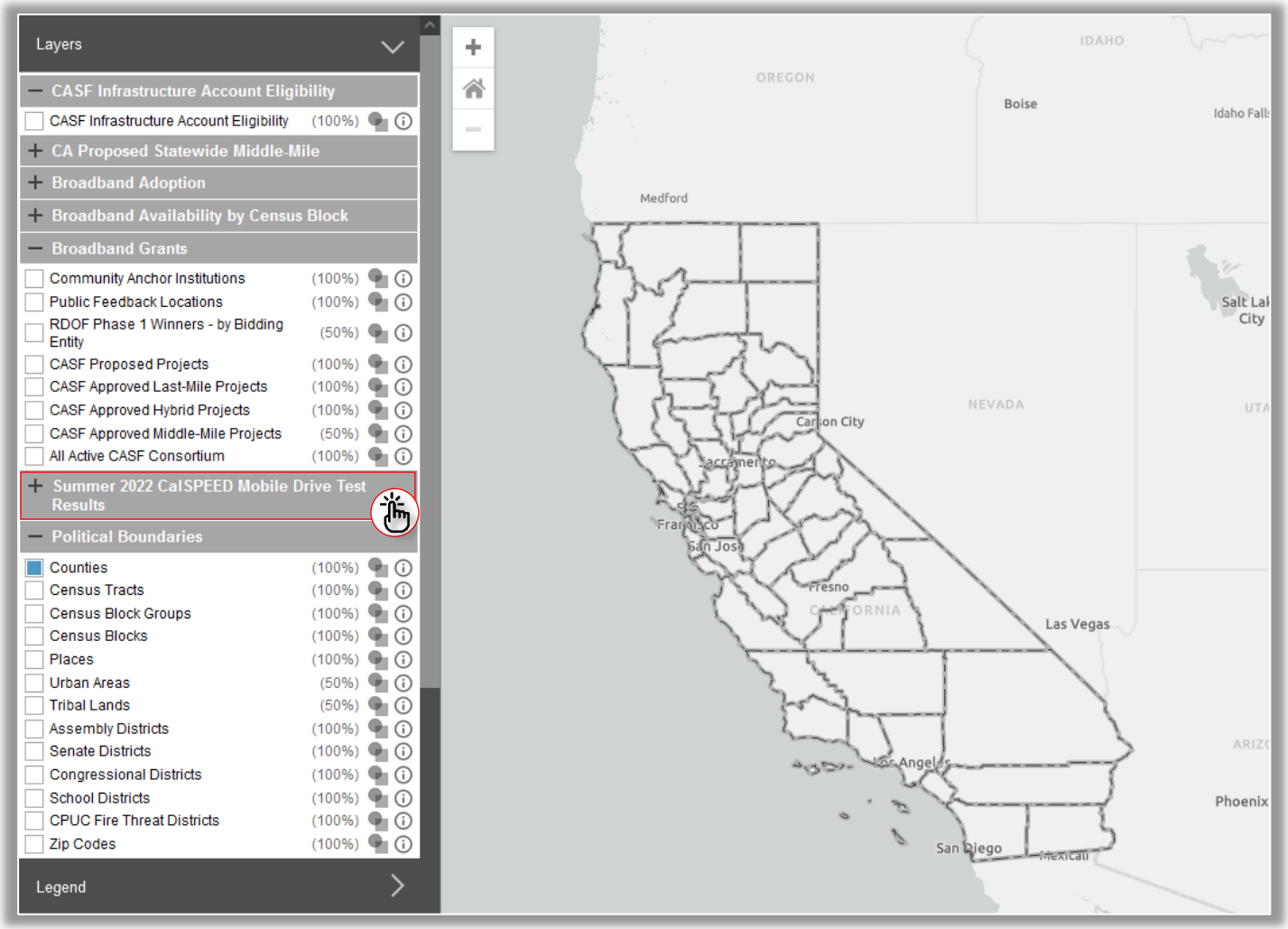


Expand the Layers menu. To expand the layers' sub-menus, click on 'Layers'. Active layers will have a blue square (▣) next to their name. To remove any active layers from the map, click on the blue square to turn it OFF, changing it from blue to white (▣➔□). By default, the following layers are active:

- CASF Infrastructure Account Eligibility
- Community Anchor Institutions
- Counties

For this example, we'll turn off the 'CASF Infrastructure Account Eligibility' and 'Community Anchor Institutions' layers. You can also turn off the 'Counties' layer if you prefer.

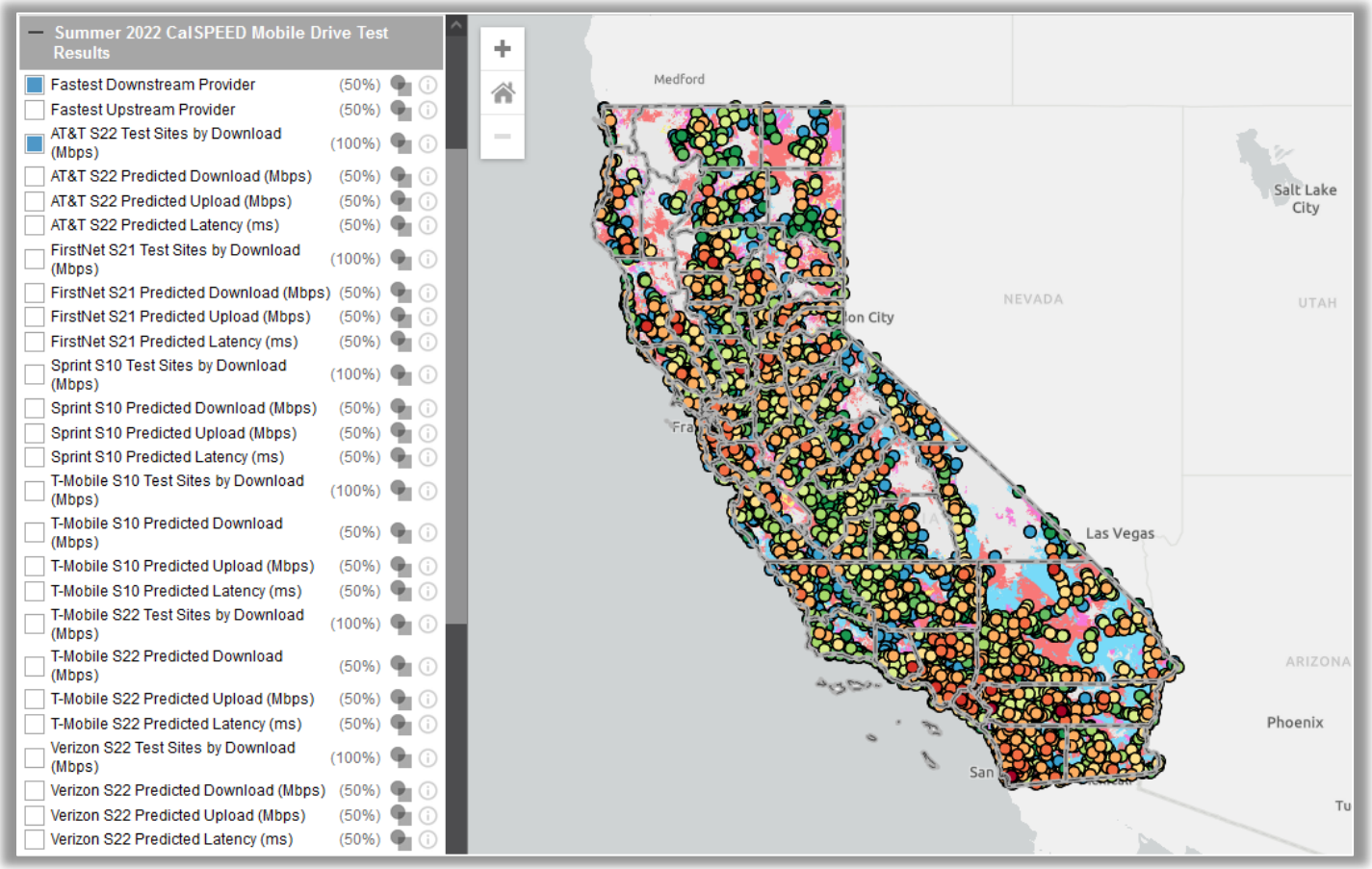
Step 2 Expand CalSPEED Layer Menu/ Hide Other Layers Menus



Expand and collapse sub-menus. To expand the menu for CalSPEED layers, click on 'Summer 2022 CalSPEED Mobile Drive Test Results'. Also, collapse the menus for 'CASF Infrastructure Account Eligibility' and 'Broadband Grants' by clicking on each. This will hide the layers associated with those menus.

If done correctly, the map will now only display the boundaries of the 'Counties' layer, with no other layers visible (as pictured in the image above).

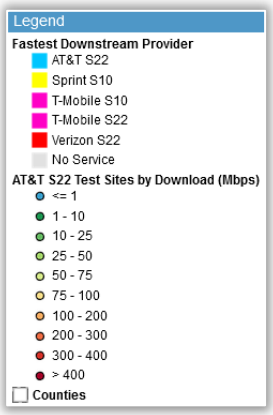
Step 3 Turn ON CalSPEED Layers and Legend



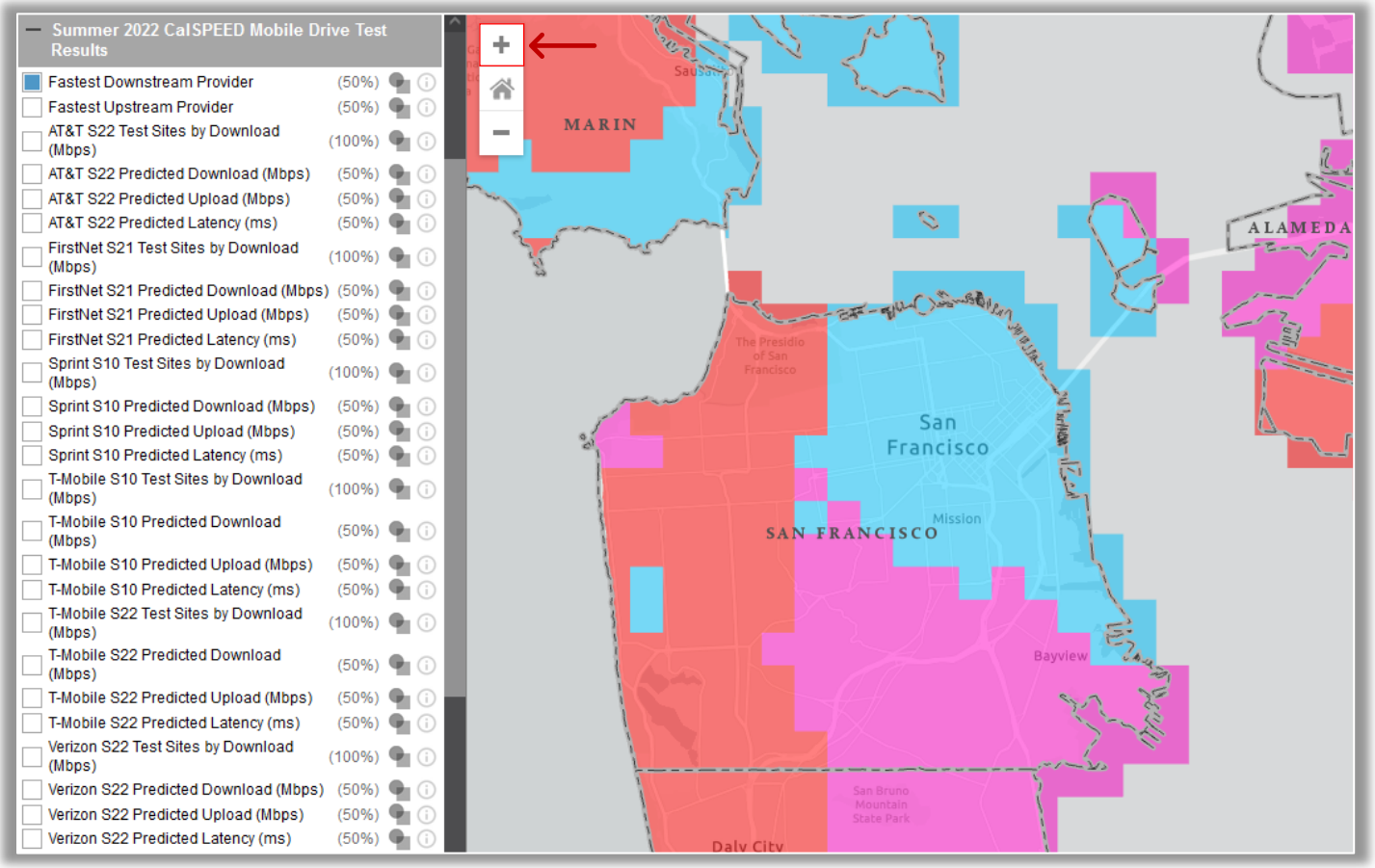
Click the checkbox next to a layer name. To view the CalSPEED data layer, click on the white square next to its name. This will turn it ON, changing it from white to blue (☐➔■). While you can toggle on multiple layers, it's best to view them one at a time for clearer interpretation of the data and to prevent clutter on the map interface. Currently, the map pictured above is displaying the following layers:

- Fastest Downstream Provider
- AT&T S22 Test Sites by Download (Mbps)

Expand the Legends menu. To see a breakdown of the layer's symbols, click on 'Legend'. This will give you detailed information about the symbols and their meanings used within the layer. Clicking 'View on map' will add the legend directly onto the interactive map interface.



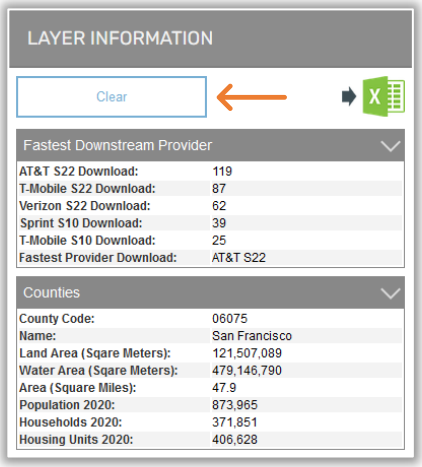
Step 4 View Layer Details



Zoom into the map for a closer look. For a closer look at the layer data, select an area of interest on the map and click the '+' button (see red arrow on image above) or use the mouse wheel to zoom in and out. To move the map, click and drag the mouse. Once you've zoomed in enough, click on the map to see detailed information for that specific layer in the clicked area.

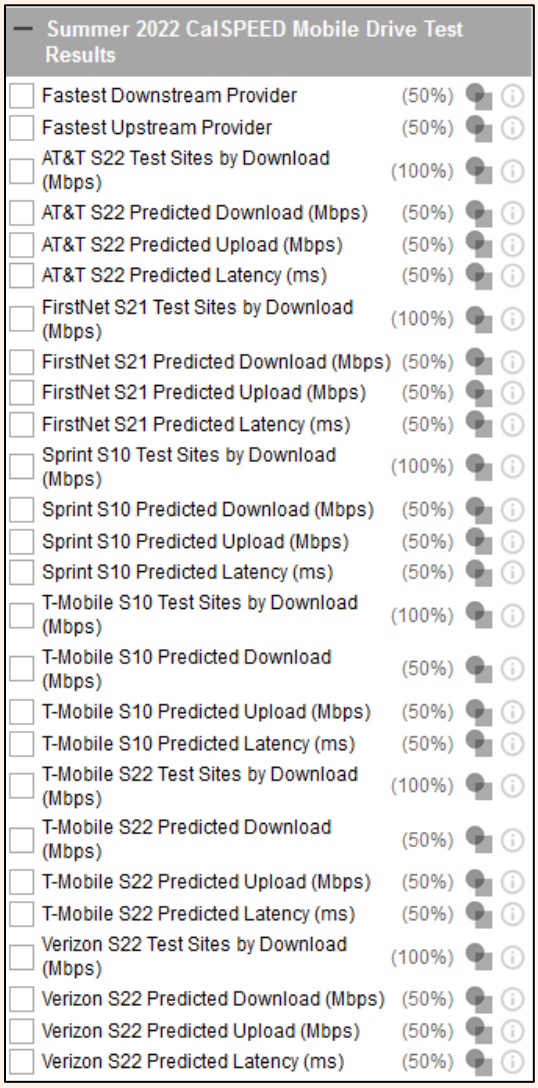
Each layer has unique attributes specific to its data. So, switch between different layers and then click on an area of interest on the map to view relevant information for that layer.

In the 'Layer Information' window, clicking the 'Clear' button (as indicated by the orange arrow in the image example on the right) allows you to select another area of the map to view details for its respective layer. Clicking the 'Excel Icon' exports the layer information into an Excel spreadsheet named 'Layers_Output.xlsx.' This spreadsheet contains data only for the clicked area on the map.



CALSPEED LAYERS

Below are description of all layers found under the sub-menu for 'Summer 2022 CalSPEED Mobile Drive Test Results'



AT&T | FirstNet | Sprint | T-Mobile | Verizon – The mobile wireless carrier used.

Fastest Downstream Provider – Shows which mobile provider has the fastest downstream service in the area.

Fastest Upstream Provider – Shows which mobile provider offers the fastest upstream service in the area.

Test Sites by Download (Mbps) – Shows measured download speed in megabits per second at 4,400 locations in the state.

Test Sites by Upload (Mbps) – Shows measured upload speed in megabits per second at 4,400 locations in the state.

Test Sites by Latency (ms) – Shows measured latency in milliseconds at 4,400 locations in the state.

Predicted Download (Mbps) – Shows predicted download speed in megabits per second based on test sites measurements.

Predicted Upload (Mbps) – Shows predicted upload speed in megabits per second based on test sites measurements.

Predicted Latency (ms) – Shows predicted latency in milliseconds based on test sites measurements.

S10 – Data was tested using Samsung S10 cell phone model.

S21 – Data was tested using Samsung S21 cell phone model.

S22 – Data was tested using Samsung S22 cell phone model.

Where can I learn more?

Visit: https://www.cpuc.ca.gov/calspeed

Email: calspeed@cpuc.ca.gov

To get updates about the California Interactive Broadband Map, just click the 'Stay Updated' button to subscribe to the mailing list.

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