



DATA DASHBOARD USER GUIDE

Issued: May 21, 2024

Welcome to the New Hampshire Housing Data Dashboard! The purpose of this data dashboard is to support local planning and decision-making by offering transparent and accessible information on housing trends and related data within New Hampshire through a public-facing platform.

We will be demonstrating how to navigate through the data dashboard and select the different topics by geography types. For this demonstration we will be starting with Carroll County and comparing to the Statewide data. Below, you'll discover the steps for navigating the dashboard using the chosen geographies and housing topics.

Step 1 – Selecting the Geography Type and Comparison Geography:

Select Geography Type, for this example we are selecting “County”. You should see the below prompt (*Prompt #1*) after selecting “County” from Step 1. in the data dashboard.

Prompt #1:

NEW HAMPSHIRE HOUSING DATA DASHBOARD

INFORMATION

About
New Hampshire Housing developed this data dashboard to provide transparent and accessible data related to statewide housing needs.

Getting Started

1. Select a geography type.
2. Select a geography.
3. Select a comparison geography.
 - The comparison geography defaults to the **State of New Hampshire**.
 - Use the dropdown to to change the comparison geography.
4. Select a topic.

GEOGRAPHY

1. Select Geography Type

Regional Planning Commission
County
Municipality

2. Select Geography
Hover mouse over areas to see labels

County (Type) + Belknap (Name) ▾

3. Select Comparison Geography

State (Type) + New Hampshire (... ▾

Go!

The screenshot shows a map of New Hampshire with Carroll County highlighted in blue. The interface is dark blue with white text and buttons.

We are selecting Carroll County for this demonstration and would need to select the county type which is currently Belknap. Hover your mouse to the County Type dropdown menu and select Carroll, please see *Prompt #2* for demonstration.

Prompt #2

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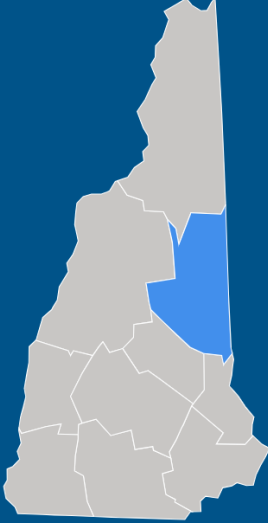
GEOGRAPHY

1. Select Geography Type

2. Select a Geography

3. Select Comparison Geography

Go!



We'll compare Carroll County to the state of New Hampshire. While New Hampshire is already the default, you can also select other options like County, Municipality, or Regional Planning Commission from the dropdown menu in Step 3. Select Comparison Geography (see *Prompt #3*).

Prompt #3

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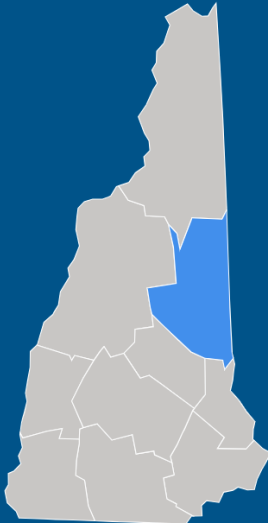
GEOGRAPHY

1. Select Geography Type

2. Select a Geography

3. Select Comparison Geography

Go!



Step 2 – Selecting the Housing Topics:

After you have selected your geographies, click the blue “Go” button to see the four housing topics you can select from (see *Prompt #4*).

Prompt #4

NEW HAMPSHIRE HOUSING DATA DASHBOARD

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2. Select a geography.
3. Select a comparison geography.
 - The comparison geography defaults to the **State of New Hampshire**.
 - Use the dropdown to to change the comparison geography.
4. Select a topic.

GEOGRAPHY

1. Select Geography Type
 - Regional Planning Commission
 - County
 - Municipality
2. Select Geography
Hover mouse over areas to see labels
 - County (Type) + Carroll (Name) ▾
3. Select Comparison Geography
 - State (Type) + New Hampshire (...) ▾

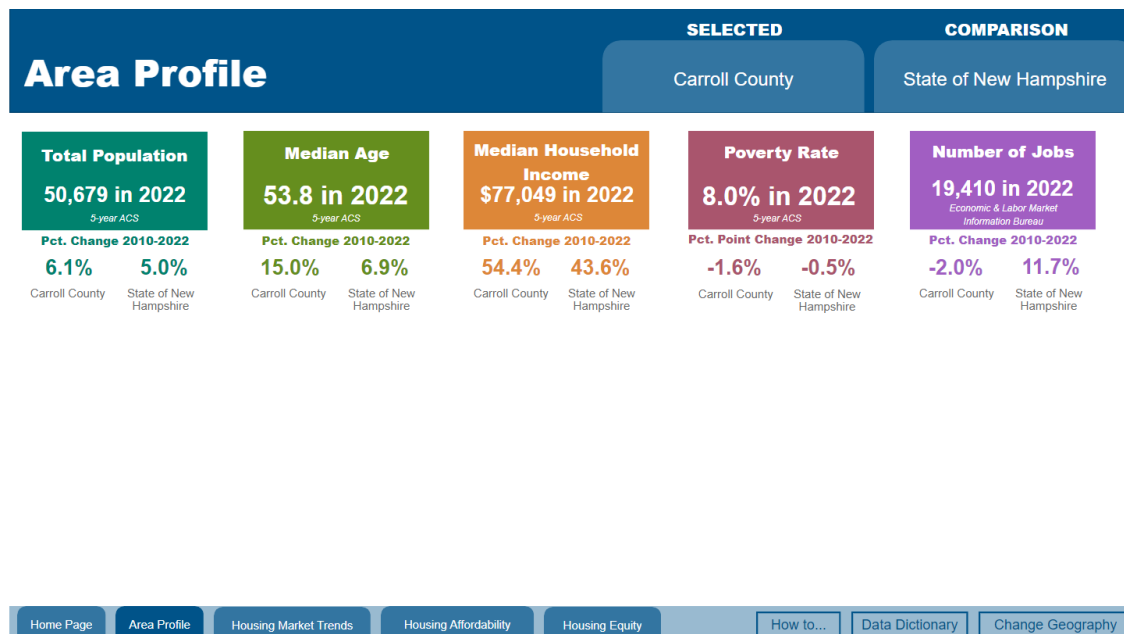
Go!

TOPIC

4. Select Topic
 - Area Profile
 - Housing Market Trends
 - Housing Affordability
 - Housing Equity
 - Clear Selection

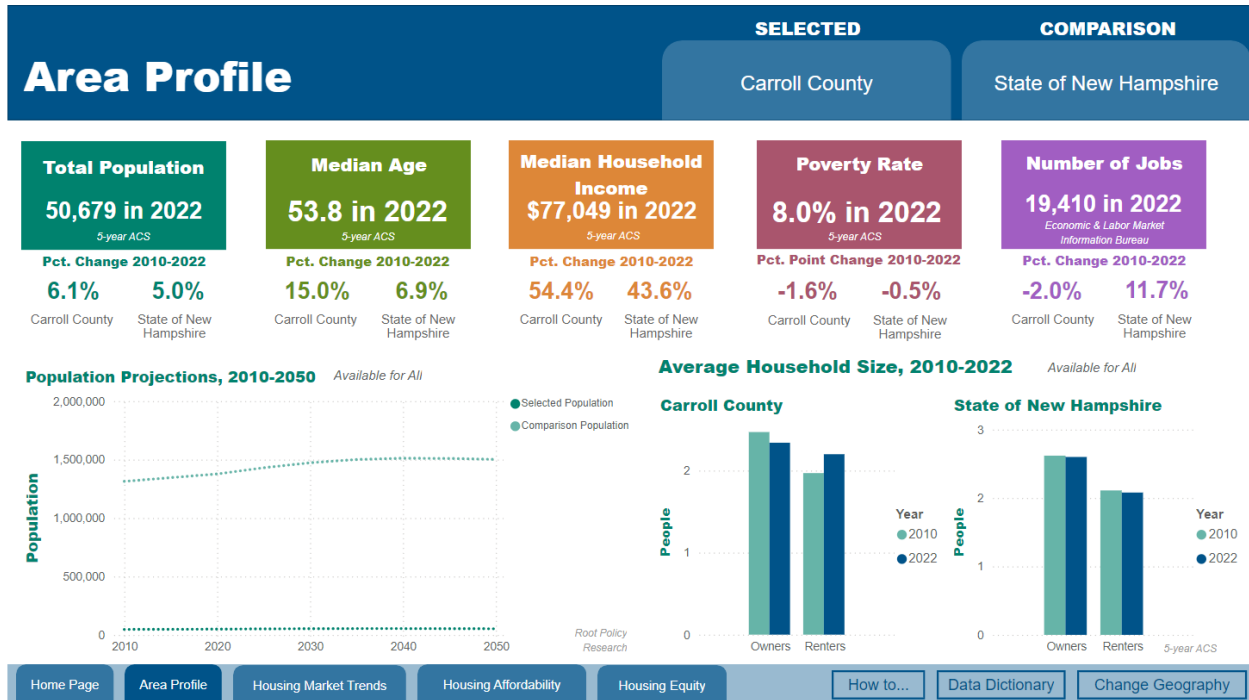
We are going to select “Area Profile” as the first topic to view. Area profile includes the following datasets: total population, median age, median household income, poverty rate, and number of jobs. Once selected you should see the below prompt (*Prompt #5*). Within each colorful box is the corresponding information for the “Selected” geography, in this case Carroll County.

Prompt #5



Underneath each Area Profile dataset there are comparisons of percentage change for both the selected Geography in this case, Carroll county and the comparison geography, in this case State of New Hampshire. If we look at the light green Median Age, we can see that the median age for Carroll county is 53.8 years using ACS 5-year estimates (2018-2022). Carroll county's median age in 2022 increased by 15% since 2010 and New Hampshire increased by 6.9%. Each Area Profile topic is clickable to view more detail of the topic. For example, we will click on the "Total Population" turquoise rectangle to see more detail of this topic (See *Prompt #6*). We should see Population Projections and Average Household Size data.

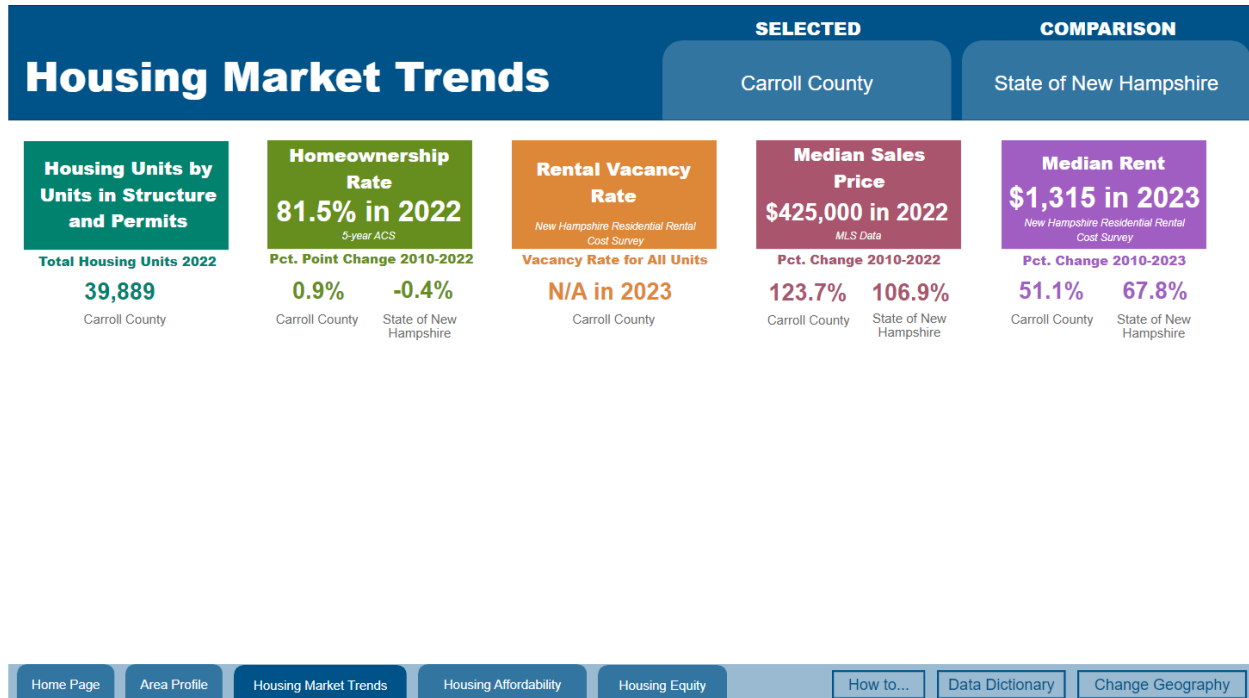
Prompt #6



Step 3: Navigating the Housing Topics:

To select other Housing Topics, such as "Housing Market Trends", locate the blue tabs at the bottom of the dashboard. We will now click the "Housing Market Trends" tab (See *Prompt #7*).

Prompt #7



Again, there are 5 topics under Housing Market Trends, and these are also clickable, similar to the Area Profile, allowing you to explore more details. We can see that the Rental Vacancy Rate topic states, “N/A”. This signifies that the data is suppressed due to an inadequate sample size. We will select “Housing Units by Units in Structure and Permits” (See Prompt #8).

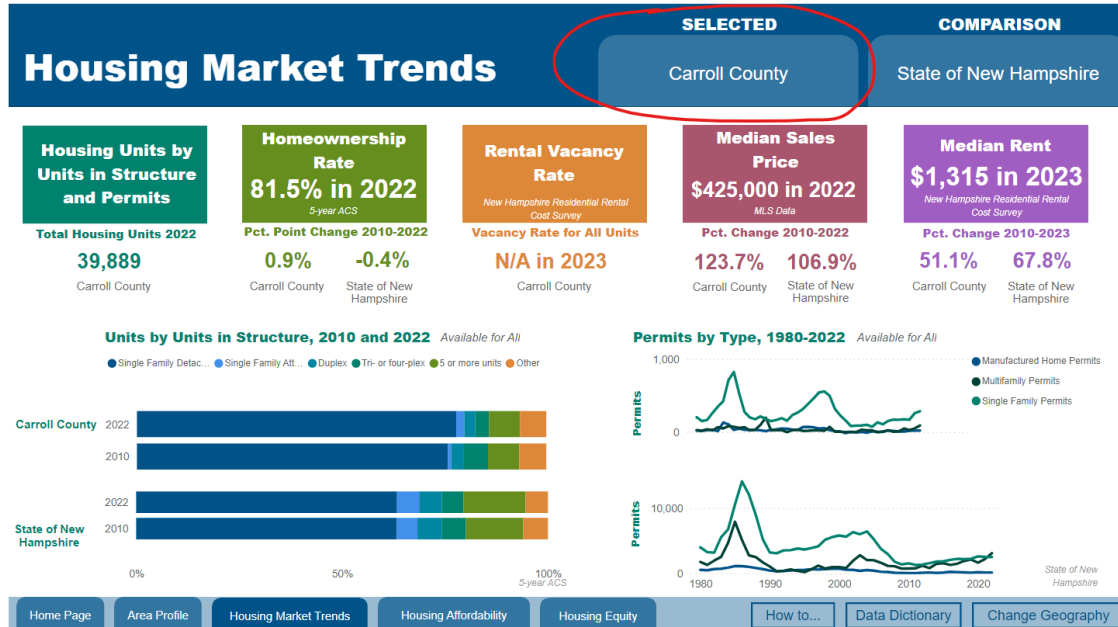
Prompt #8



Step 4 - Selecting other Geography Types with Selected Housing Topic:

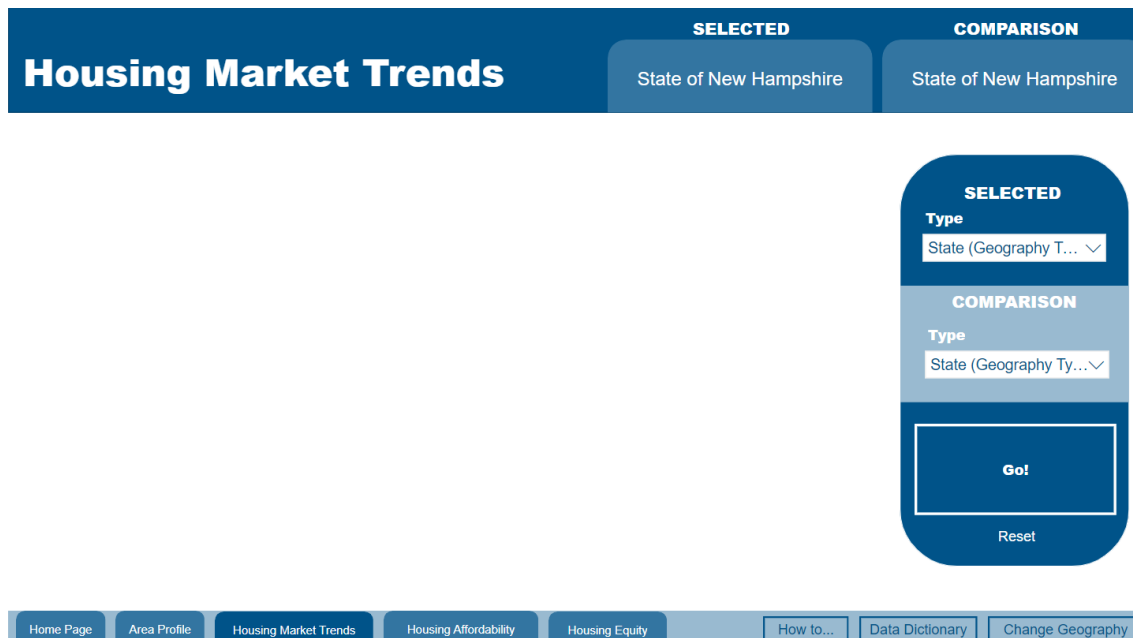
You can select different geography types when you are already in the Housing Topic tabs. At the upper right-hand corner of the dashboard, you can see there are two tabs that display the current Geography selection (Carroll county) and the Comparison (State of New Hampshire). These two tabs are clickable, and we will start with selecting “Carroll County” (see *Prompt #9*).

Prompt #9



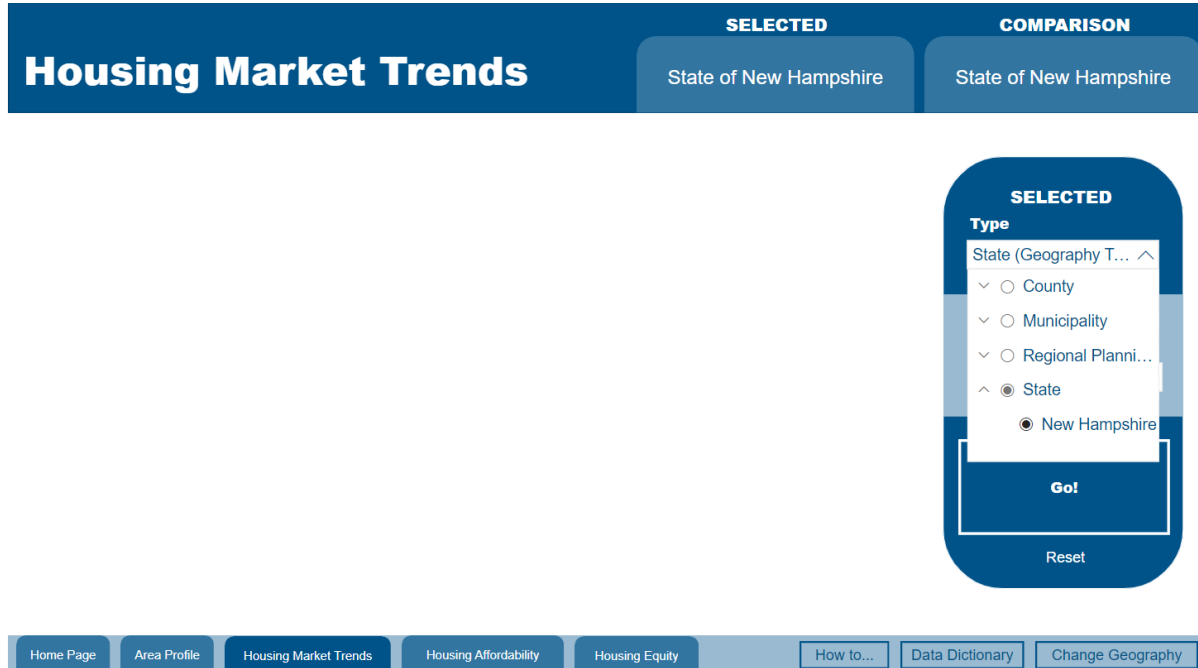
Once you have clicked the “Carroll County” tab, you should see the below view (see *Prompt #10*).

Prompt #10

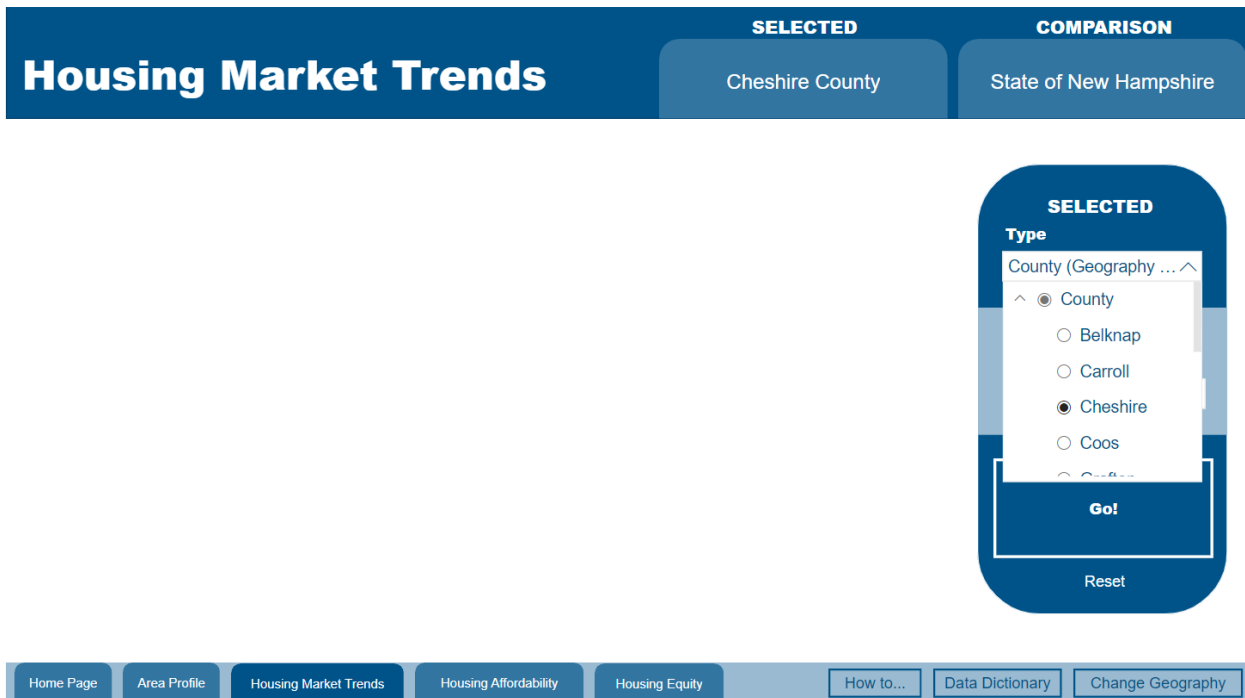


Click on the “Selected” dropdown menu. Once clicked, you should see the geography types you can select (see *Prompt #11*). We are now going to change from Carroll county to Cheshire. Select the “County” dropdown menu and select “Cheshire” (see *Prompt 12*).

Prompt #11

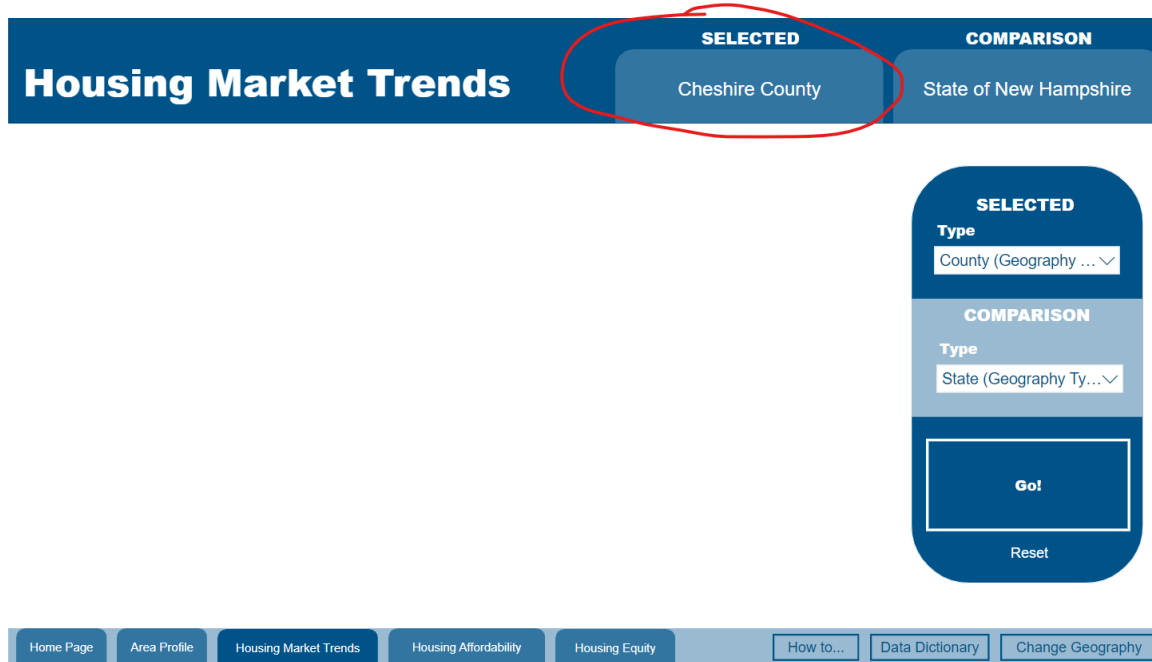


Prompt #12



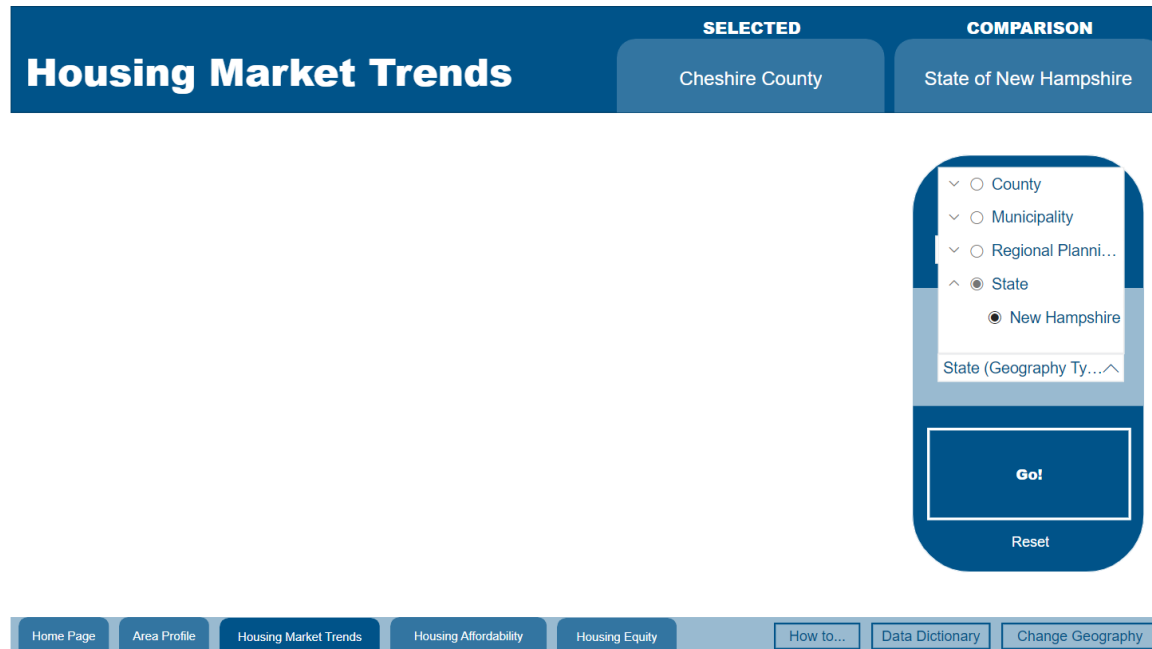
After you have selected Cheshire County you should see the name change made at the “Selected” tab at upper right-hand corner (see *Prompt #13*)

Prompt #13



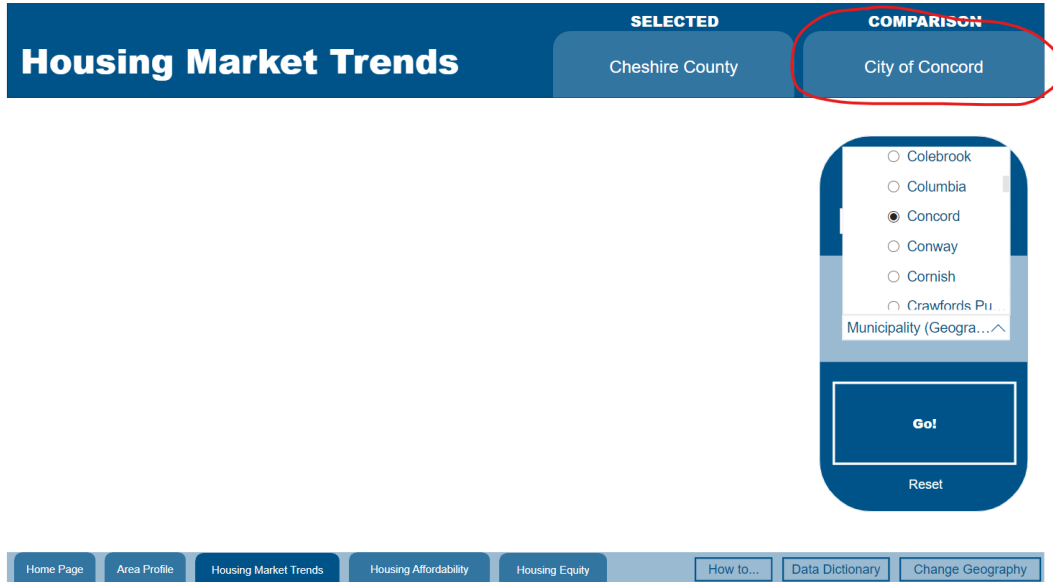
If you want to also change the Comparison geography you can select the “Comparison” dropdown menu and choose from the various geography levels (See *Prompt #14*).

Prompt #14



We are going to choose the “Municipality” dropdown menu and select “Concord”. Scroll down until you see Concord and select that municipality. You should see that the “Comparison” tab now has changed to “City of Concord” (see *Prompt #15*)

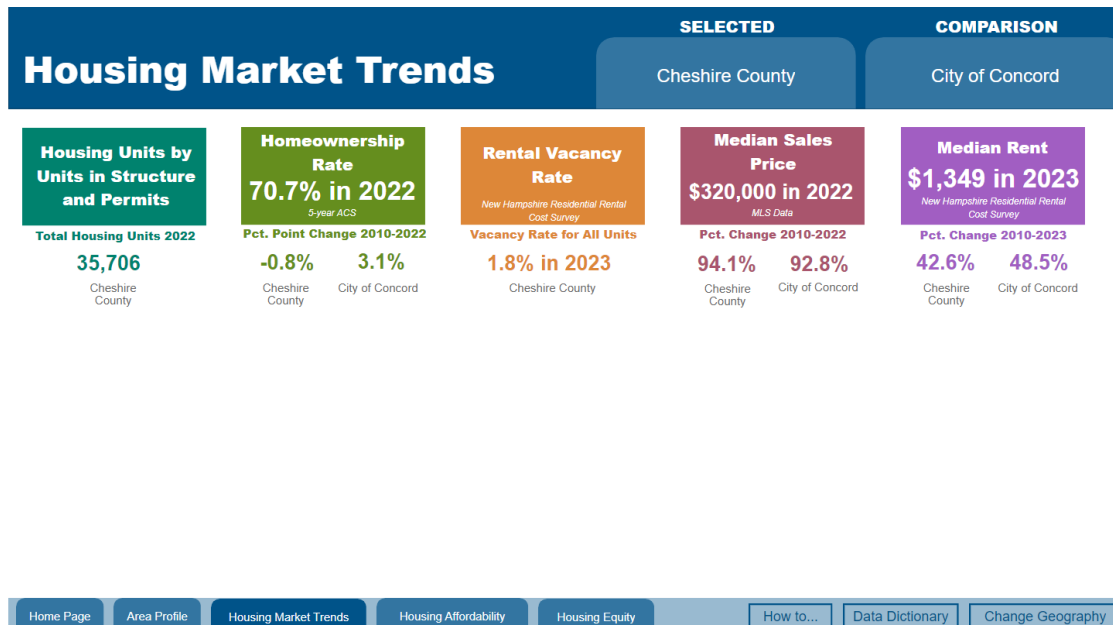
Prompt #15



After you have finished making your selected geographies, then you would click the blue rectangle that says “Go!”.

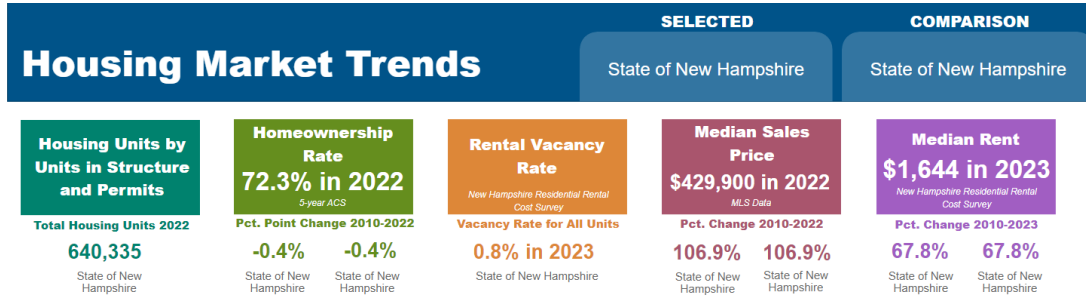
Since we were already in the “Housing Market” tab, we can see that the geography selections have changed, but we remain within the “Housing Affordability” tab (see *Prompt #16*).

Prompt #16



You can also change the Geography selections by returning to the Home Page. Simply click on the “Home Page” blue tab at the bottom of the dashboard or select the “Change Geography” box in the lower right corner (see *Prompt 17*).

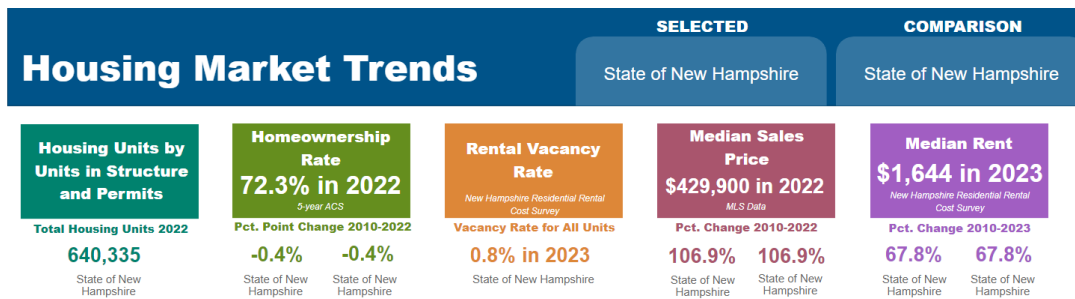
Prompt #17



Step 5 – Reviewing the Provided Helpful Resources:

The dashboard includes two helpful resources located at the right lower-hand corner (see *Prompt #18*). These are the “How to”, and “Data Dictionary”, and tabs.

Prompt #18



Choose the “How to” tab for guidance on navigating the data dashboard and understanding the charts (see *Prompt #19*).

Prompt #19

How to Use this Dashboard

How do I...

Select a geography. To select a geography, click the “Change Geography” or “Return to Home Page” button on the bottom of each page. Select a geography from each dropdown menu that appears or by clicking “Regional Planning Commission” or “County” or “Municipality” on the home page.

Navigate the dashboard. Navigation between pages of the dashboard are located on the right hand side of the home page (once you select a geography) and along the bottom of each content page. Click on a button to learn more.

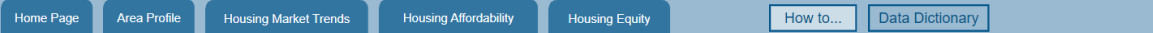
Read a chart. The chart title will provide context about the content of the chart. The Y-axis label will tell you what units are used on the vertical (y-axis). The X-axis label will tell you what units are used on the horizontal (x-axis). You can hover over data points in the chart to learn more information and for help interpreting the figure.

Screenshot the data. Screenshots of the dashboard can be taken on Windows using the snipping tool (type snipping tool into the search bar) or by pressing [alt] + [print screen]. On a Mac, you can take a screenshot by pressing and holding [shift] + [command] + [3] together.

Get more information. More information is available if you hover your mouse over any of the data shown in the dashboard. You can also visit the data dictionary page for more information about data sources and data availability. Finally, you can download the associated Excel workbook for access to all of the data presented in this dashboard.

Important Notes

- Data availability is different depending on the geography selected. Hover over a visual to see what geographies the data are unavailable for.
- “N/A” or “(blank)” indicates the data is suppressed by the data source due to an inadequate sample size.
- For smaller communities (less than 4,000 in population) be mindful when presenting data. The margin of error increases as sample size decreases. Therefore, data for smaller geographic areas should be reported as percentages or change over time rather than the raw count.
- Additional detail and source information can be found in the excel data download associated with this dashboard.



Choose the “Data Dictionary” tab to access definitions of the data and information on the data sources used (see *Prompt #20*).

Prompt #20

Data Dictionary

Glossary

Affordable means “combined rental and utility costs or combined mortgage loan debt services, property taxes, and required insurance that does not exceed 30 percent of a household’s gross annual income.” (NH RSA 674:58)

American Community Survey (ACS) estimates are “period” estimates that represent resident survey data collected over a period of time, generally 1 or 5 years. For example, 2020 ACS 5-year estimates represent data collected over the entire 2016-2020 5-year period. 2020 ACS 1-year estimates represent data collected during the 2020 year.

Area Median Income (AMI) or Median Family Income (MFI) is the median income for households and varies depending on household size and geographic area. This statistical measure—the income of the household in the exact middle of all households when distributed from lowest to highest—is a better measure than the average, which can be skewed by very low or very high incomes. The U.S. Department of Housing and Urban Development (HUD) establishes the AMI each year.

Cost burden occurs when a household or individual spends more than 30% of their income on housing. Severe cost burden occurs when a household or individual spends more than 50% of their income on housing.

Home Mortgage Disclosure Act (HMDA) is a reporting system for mortgage lending. HMDA covers banks, credit unions, and savings associations that exceed designated asset thresholds, have home branches in a Metropolitan Statistical Area (MSA), are federally insured or regulated, and have issued at least 100 closed-end mortgages in two years and 2,000 open-end lines of credit in two years. It also covers some for-profit mortgage-lending institutions that have a home branch in an MSA, have initiated at least five home purchase, improvement, or refinance loans and have issued at least 100 closed-end mortgages in two years and 2,000 open-end lines of credit in two years.

Data Sources

5-year ACS. American Community Survey (ACS) five-year estimates. <https://data.census.gov/advanced>

HMDA. Home Mortgage Disclosure Act Data. Accessed through [mysidewalk.com](https://ffiec.cfbp.gov/data-browser/). Also available at <https://ffiec.cfbp.gov/data-browser/>

HUD Picture of Subsidized Housing. U.S. Department of Housing and Urban Development (HUD) Picture of Subsidized Housing. Accessed through [mysidewalk.com](https://www.huduser.gov/portal/datasets/asstshg.html). Also available at <https://www.huduser.gov/portal/datasets/asstshg.html>

NHH Residential Rental Cost Survey. New Hampshire Housing (NHH) Residential Rental Cost Survey. <https://www.nhhfa.org/rentsurvey/>

QCEW. Quarterly Census of Employment and Wages. Accessed through New Hampshire Employment Security (NHES). <https://www.nhes.nh.gov/elmi/statistics/qcew-ann-data.htm>

Root Policy Research. Estimates prepared by Root Policy Research for the State of New Hampshire Housing Needs Assessment.



FAQs

Q: How often will the data dashboard be updated?

A: We anticipate updating the data dashboard on an annual basis.

Q: Why are some of the data showing as N/A or Blank?

A: Some geographies depending on the data source will display an “N/A” or “(Blank)” because there is an insufficient sample size for that geography. Additionally, data availability is limited for Regional Planning Commission geographies, resulting in “N/A” or “(Blank)” in fields where data cannot be provided.

Q: How can I make the screen larger?

A: At the lower right-hand corner, you should see a diagonal of two arrows when hovered, says “Open in full-screen mode”. Click on it and the screen will expand to full screen.

Appendix:

- Home Page
- Area Profile
 - Total Population
 - Population Projections
 - Average Household size
 - Median Age
 - Age Distribution
 - Median Household Income
 - Median Household Income by Tenure (Unavailable for Regional Planning Commissions)
 - Poverty Rate
 - Number of Jobs
 - Employment by Industry (Unavailable for County Subdivisions)
 - Average Annual Wage by Industry (Unavailable for County Subdivisions)
 - Employment by Industry (Unavailable for County Subdivisions)
 - Average Annual Wage (Unavailable for County Subdivisions)
- Housing Market Trends
 - Housing Units by Units in Structure and Permits
 - Homeownership Rate
 - Rental Vacancy Rate (Unavailable for Sample Size less than 20)
 - Median Sales Price
 - Sales Price Distribution (Unavailable for Sample Size less than 20)
 - Median Rent (Unavailable for Sample Size less than 20)
- Housing Affordability
 - Housing Cost Burden
 - Percent of Households Cost Burdened
 - Number of Subsidized Housing Units
 - Percent of Renters with Housing Choice Vouchers (Unavailable for Regional Planning Commissions)
 - Renter Households That Can Afford 60% Area Median Income (AMI) Rent
 - Maximum Rent by AMI (Unavailable for Regional Planning Commissions)
 - Renter Households That Can Afford 100% Median Income Ownership
 - Maximum Sales Price by AMI (Unavailable for Regional Planning Commissions)
 - Rental Market Gaps
 - Rental Market Gaps by AMI (Unavailable for Regional Planning Commissions)
- Housing Equity
 - Homeownership Rate
 - Median Household Income (Unavailable for Regional Planning Commissions)
 - Mortgage Denial Rate
 - Overcrowding