LABarometer Tracking Report
from
The Mobility & Sustainability Survey

Waves 1 - 3

Release Date:

June 14, 2023

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Background and Methods

The LABarometer Mobility & Sustainability survey tracks environmental sustainability, transportation behavior, and climate vulnerability in Los Angeles County. It is inspired by county-wide efforts to reduce automobile congestion, minimize environmental impacts, and increase resilience to climate change in the region.

The survey covers a variety of topics, including heat and pollution exposure, natural disaster preparedness, pro-environmental behavior, transportation sentiment, transportation access and behavior, and the steps Los Angeles County residents are taking to adapt to climate change. The survey also includes LABarometer's consumer sentiment index, a set of six questions designed to monitor individual finances and the economy.

This document tracks key outcomes of interest from Waves 1-3 of the Mobility & Sustainability survey. For an exhaustive list of variables included in the Mobility & Sustainability surveys, please refer to the Longitudinal File codebook.

Survey Methodology

All LABarometer surveys are fielded to the LABarometer Panel, a probability-based Internet panel of adults living in households throughout Los Angeles County. From 2019 to 2022, LABarometer survey waves comprise four surveys, fielded three to six months apart. The surveys cover the following topics: Livability, Mobility, Sustainability & Resilience, and Affordability & Prosperity.

In 2022, LABarometer moved to a biannual survey frequency and these four surveys were combined and reduced in size to two surveys, one on Livability & Affordability and one Mobility & Sustainability. The Mobility & Sustainability survey is fielded in January of each year and the Livability & Affordability Survey is fielded in July of each year. Field periods range from 8-12 weeks.

Following UAS protocols, all LABarometer surveys are fielded in English and in Spanish. To participate in a survey, panel members can use any computer, cell phone, or tablet with Internet access. The majority of panel members have their own internet access. Panel members who do not have access to internet are provided with an internet-enabled tablet to ensure their regular participation in our surveys.

Survey and Sample Information

A total of 1,190-1,417 Los Angeles County residents completed any given wave of the Mobility & Sustainability survey. Participants were recruited from the LABarometer Panel and survey participation rates ranged from 73% to 78%.

Details for each survey, including links to individual survey toplines, are provided in the informational table below. For waves 1 and 2, "M" is used to denote the Mobility survey module and "S" is used to denote the Sustainability survey module.

Variable names and question wording are not provided in this release. To see the questions used in any given survey, please refer to the associated survey codebook, questionnaire, or topline.

Survey	UAS #	Sample Size	Completion Rate	Field Dates	Topline Link
Wave 1 (M)	UAS 219	1384	76%	Dec 11, 2019 – Feb 7, 2020	UAS 219 Topline
Wave 1 (S)	UAS 286	1417	75%	Jun 3, 2020 – July 13, 2020	UAS 286 Topine
Wave 2 (M)	UAS 379	1337	78%	Mar 2, 2021 – Apr 30, 2021	UAS 379 Topline
Wave 2 (S)	UAS 403	1244	74%	Jul 19, 2021 – Sep 5, 2021	UAS 403 Topline
Wave 3	UAS 510	1190	73%	Jan 27, 2023 – Mar 31, 2023	UAS 510 Topline

Survey Weights

The method for creating sample weights for the tracking survey follows the general procedure for UAS surveys described in CESR's online methodology documentation. Sample weights are constructed in two steps. First, we calculate a base weight that corrects for unequal probabilities of selection of different households into the UAS. Second, we generate post-stratification weights, which align sample distributions of key demographics, namely gender, race/ethnicity, age, education, and geographic location, with their population counterparts. Population benchmarks are derived from the Basic Monthly Current Population Survey (CPS). The provided sample weights bring the sample in line with the L.A. County adult population.

About the Panel

The LABarometer Panel is a probability-based, Internet panel of approximately 2,100 adults living in households throughout Los Angeles County. It is a sub-panel of the Understanding America Study (UAS), a national Internet panel of 10,000 Americans maintained by the USC Dornsife Center for Economic and Social Research. Following UAS procedures, LABarometer panel members are recruited in batches and refreshed through address-based sampling using postal codes. Eligible individuals are all non-institutionalized adults aged 18 and older living in a contacted household in Los Angeles County.

About LABarometer

LABarometer is a research center housed at the USC Dornsife Center for Economic and Social Research (CESR). We conduct basic and applied social science research on issues affecting Los

Angeles County residents, with the aim of informing academic research, public discourse, and policy. At the heart of our research is the LABarometer Panel, a probability-based Internet survey panel of approximately 12,500 adults randomly selected from households throughout Los Angeles County.

LABarometer surveys are fielded to the LABarometer Panel on a biannual basis to monitor social and economic conditions in Los Angeles County. These longitudinal surveys focus on four dimensions of individual and community well-being: livability, affordability, mobility, and sustainability. LABarometer surveys include questions about residents' lives, their attitudes and behaviors, and the challenges they encounter in their communities, filling data gaps on topics ranging from housing insecurity and climate resilience, to transportation behavior and the economy.

Survey Team

Kyla Thomas, Ph.D., is the Director of LABarometer and a Sociologist at the USC Dornsife Center for Economic and Social Research.

Marco Angrisani, Ph.D., is the Survey Methodologist for LABarometer and a Senior Economist at the USC Dornsife Center for Economic and Social Research.

Ying Liu, Ph.D., is the Statistician and Contextual Data Scientist for LABarometer and a Research Scientist at the USC Dornsife Center for Economic and Social Research.

Evan Sandlin, Ph.D. is the Data Analyst for LABarometer and a Research Manager at the USC Dornsife Center for Economic and Social Research.

Thalia Thom is the Research Assistant for LABarometer and a Ph.D. Candidate in the Department of Sociology at USC.

Michele Warnock is Center Assistant for the USC Dornsife Center for Economic and Social Research.

Transportation Behavior

Private Vehicle Use in Last Year

Ride Hailing Use in Last Year
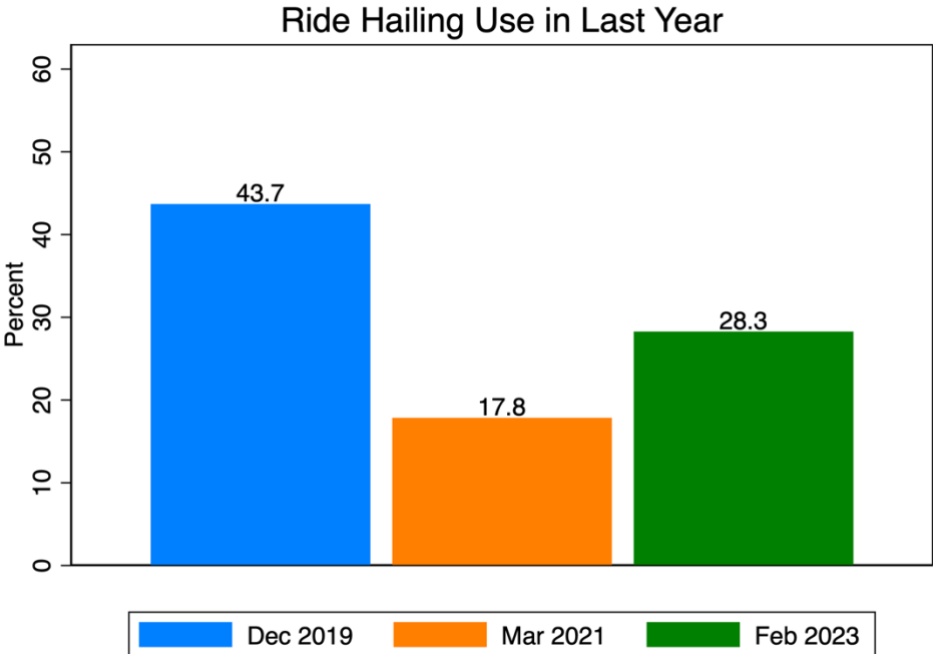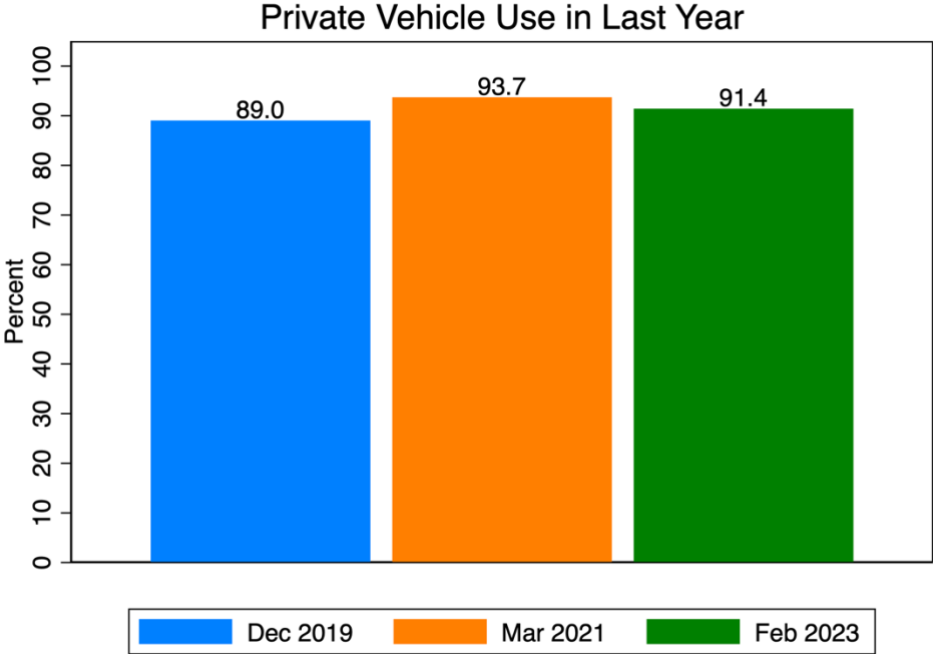
Taxi/Limo/Hired Car Use in Last Year

Dec 2019: 7.3
Mar 2021: 2.5
Feb 2023: 4.5
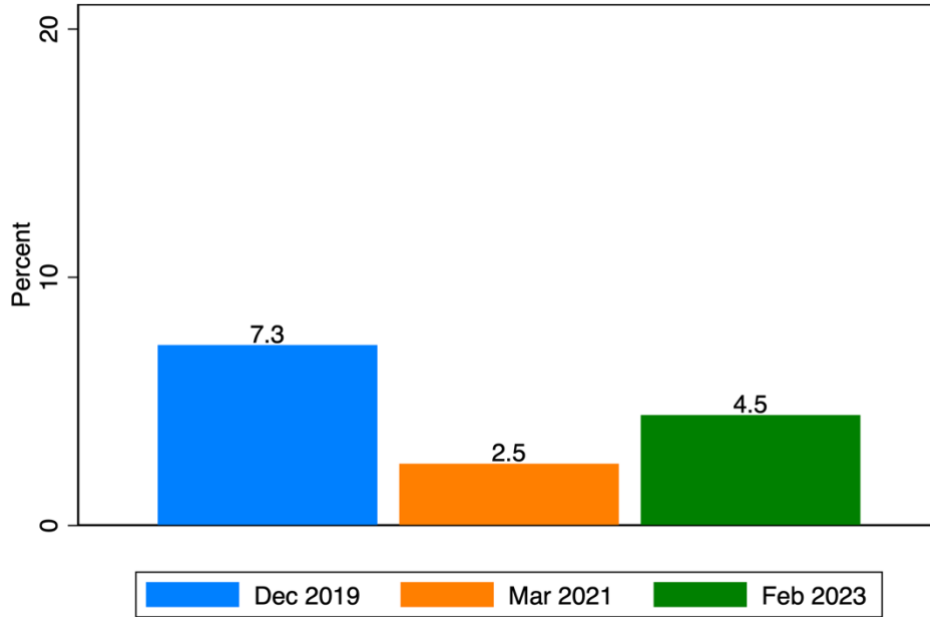
Public Transportation Use in Last Year

Dec 2019: 35.1
Mar 2021: 12.5
Feb 2023: 22.4
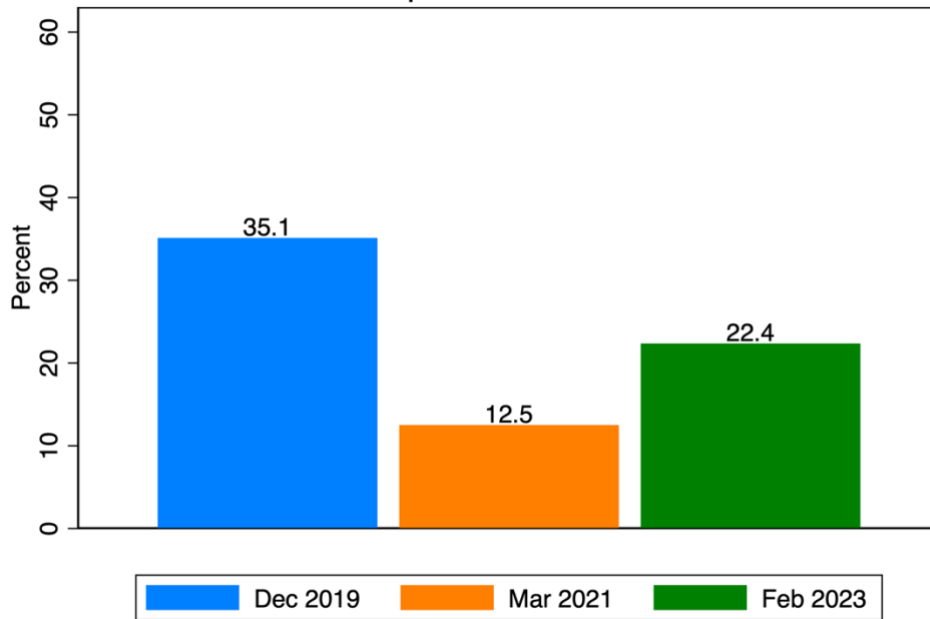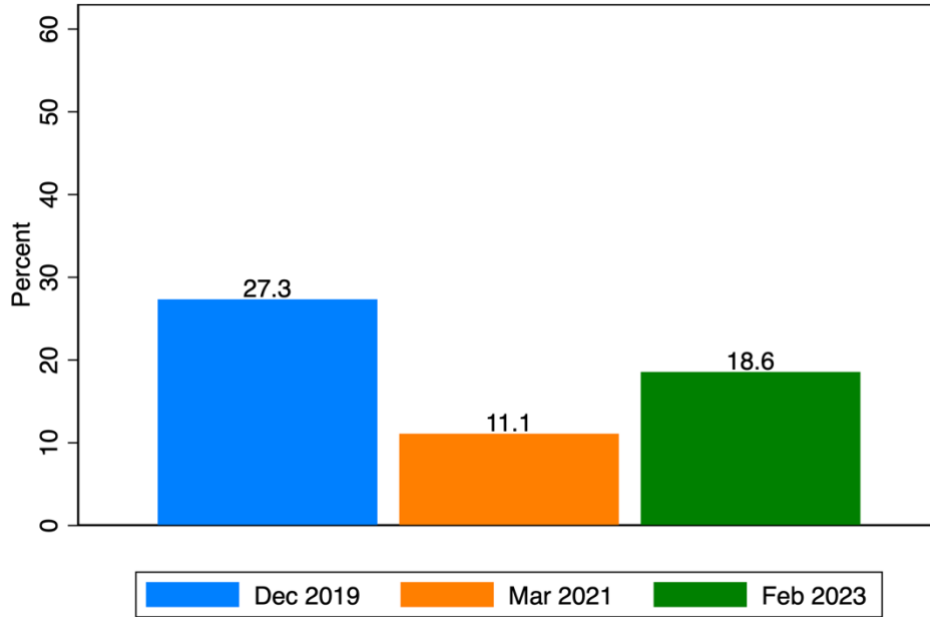
Bus Use in Last Year

Metro Use in Last Year
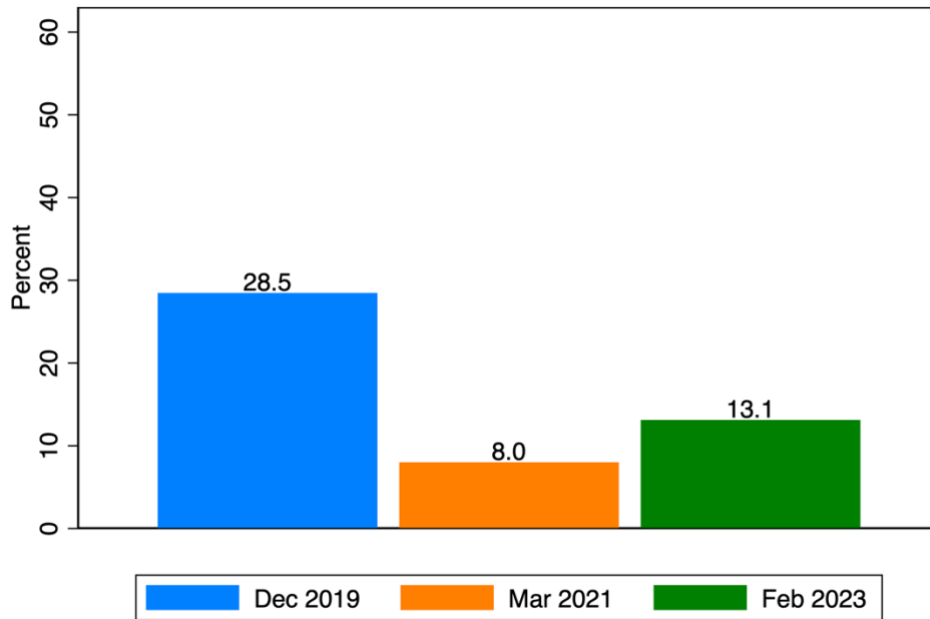
Metrolink Use in Last Year

	Dec 2019	Mar 2021	Feb 2023
	11.6	1.7	3.7

Amtrak Use in Last Year

	Dec 2019	Mar 2021	Feb 2023
	3.6	0.8	1.9
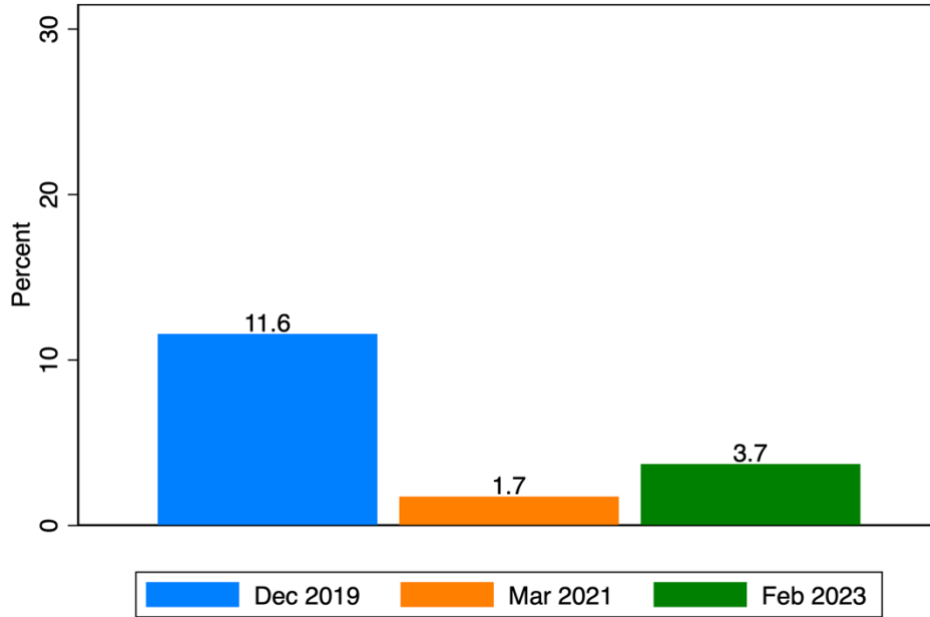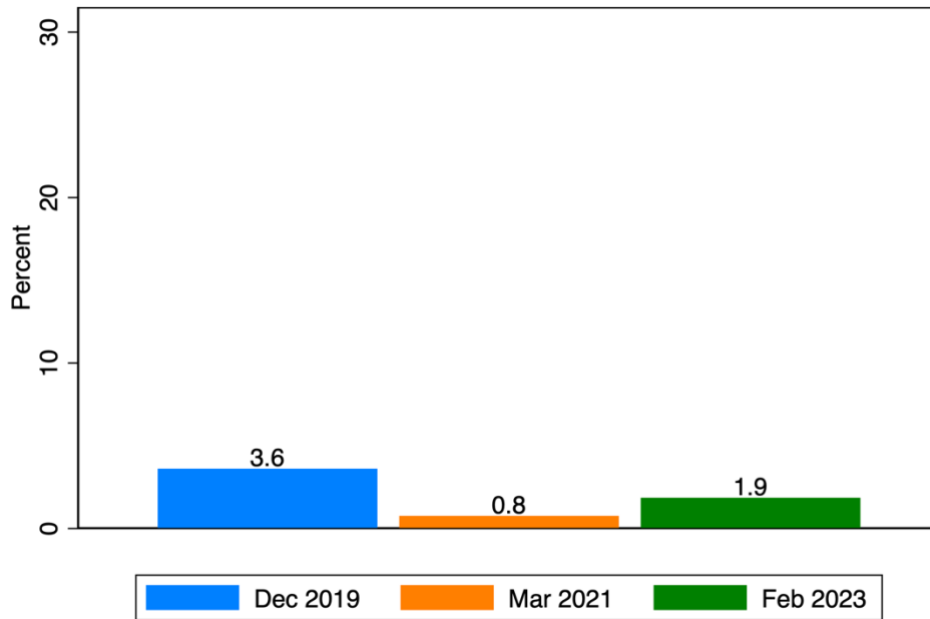
Dial-A-Ride Use in Last Year

Percent

0.9	1.0	1.0

Dec 2019   Mar 2021   Feb 2023
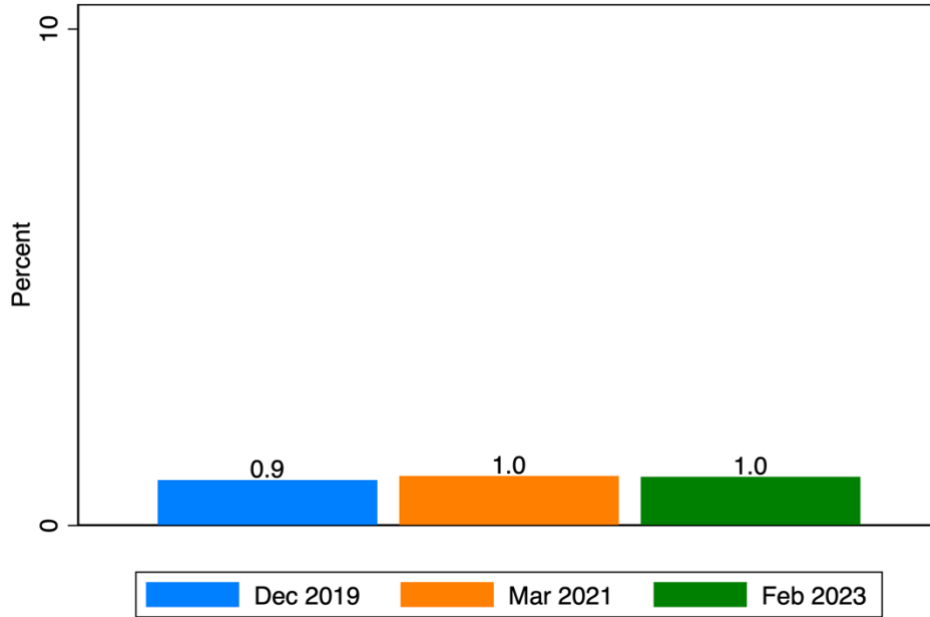
Walk/Skateboard/Kick Scooter Use in Last Year

Percent

41.2	28.5	29.7

Dec 2019   Mar 2021   Feb 2023
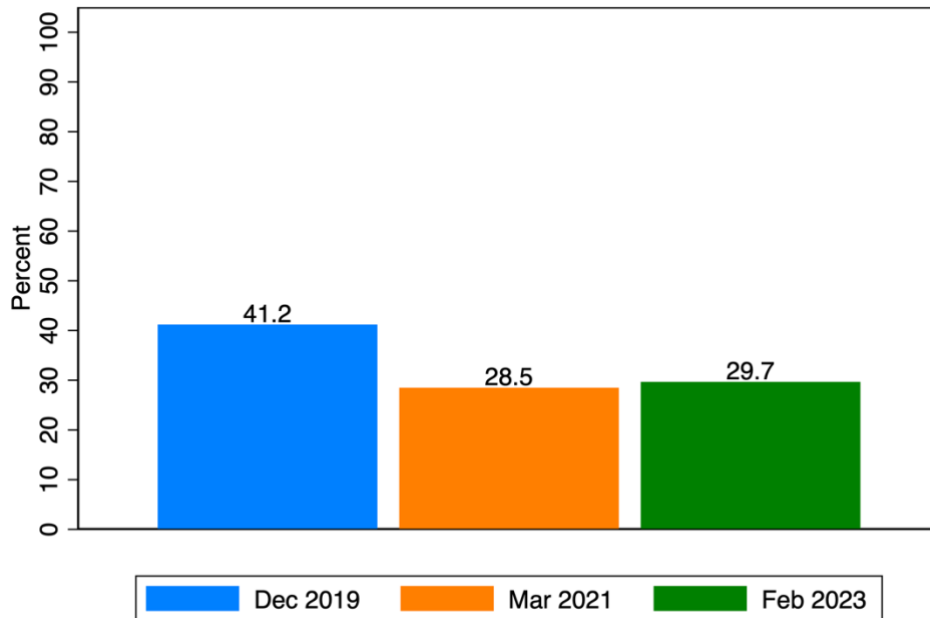
Bicycle or Bikeshare Use in Last Year

Percent

10.2

7.9

5.5

Dec 2019   Mar 2021   Feb 2023
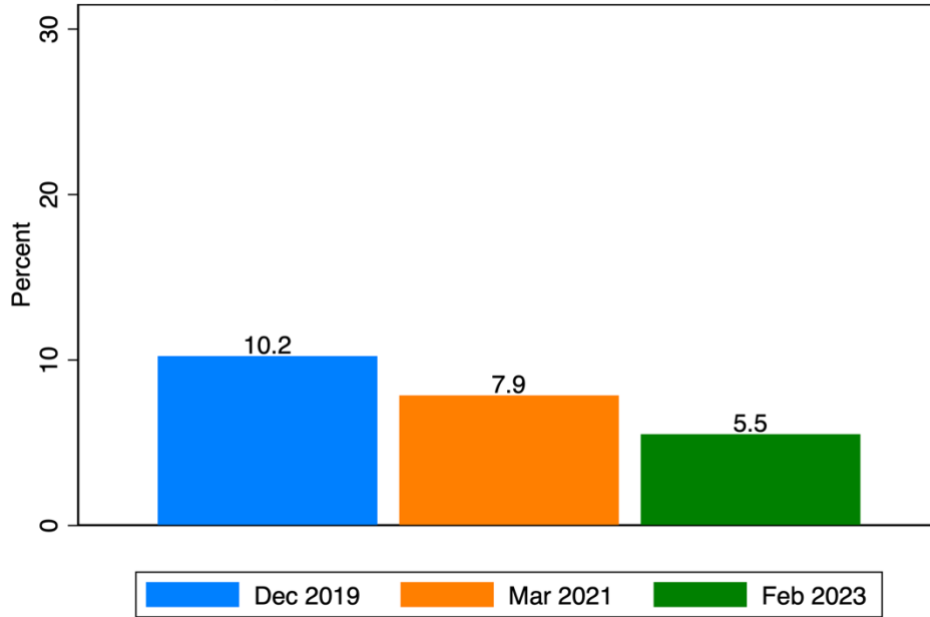
Electric Scooter/Bike/Skateboard Use in Last Year

Percent

5.9

2.3

3.3

Dec 2019   Mar 2021   Feb 2023
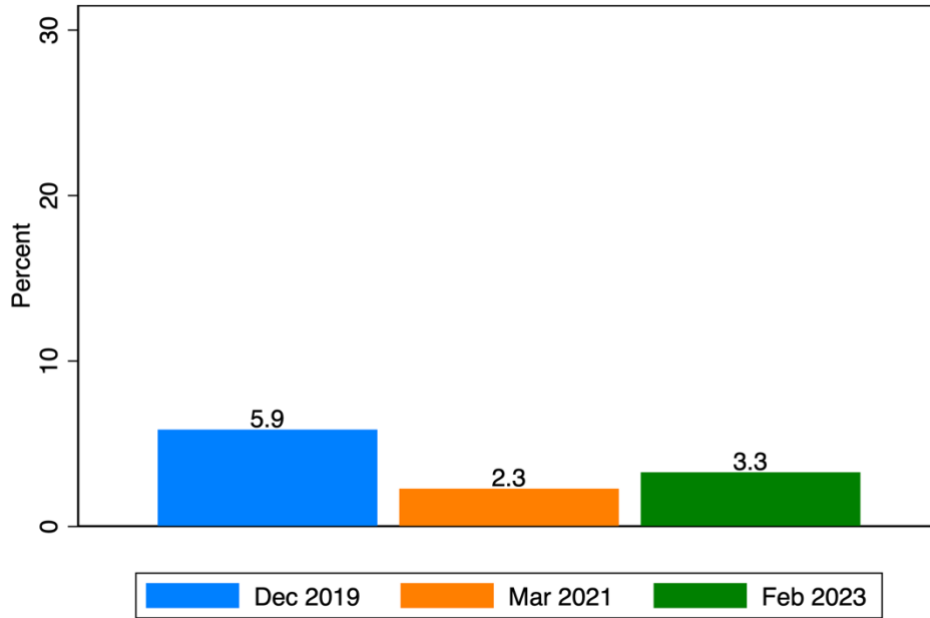
Motorcycle Use in Last Year

Percent

1.9 · 1.3 · 0.9

Dec 2019 · Mar 2021 · Feb 2023
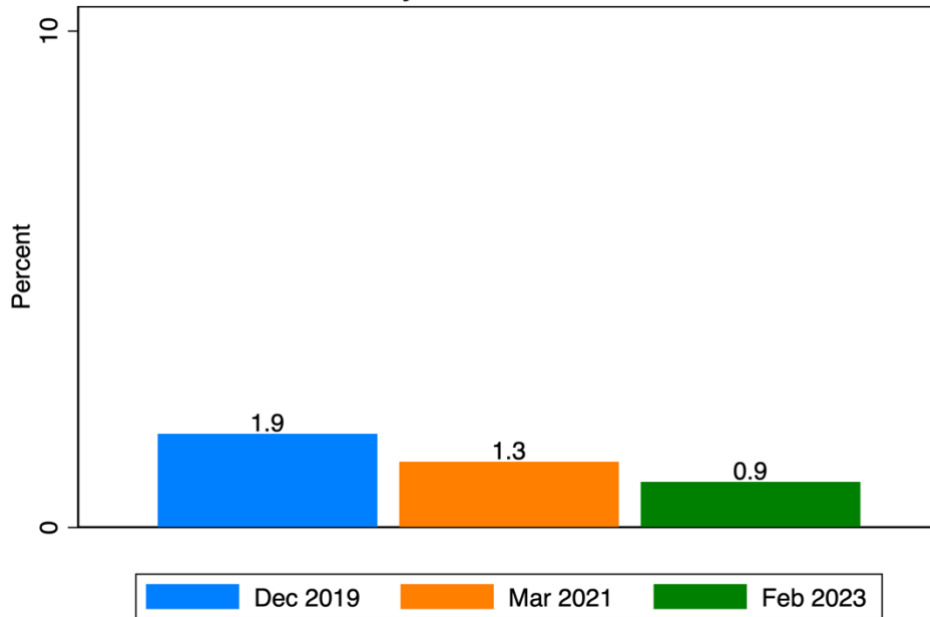
Use Private Vehicle at Least One Day A Week
Among Private Vehicle Users

Percent

83.9 · 76.0 · 81.5

Dec 2019 · Mar 2021 · Feb 2023
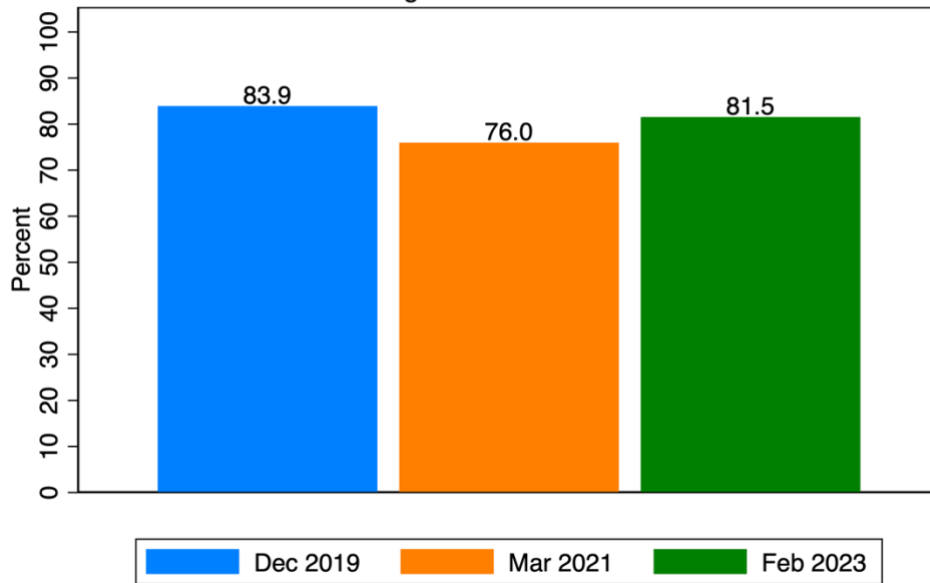
Use Ride Hailing at Least One Day A Week
Among Ride Hailing Users
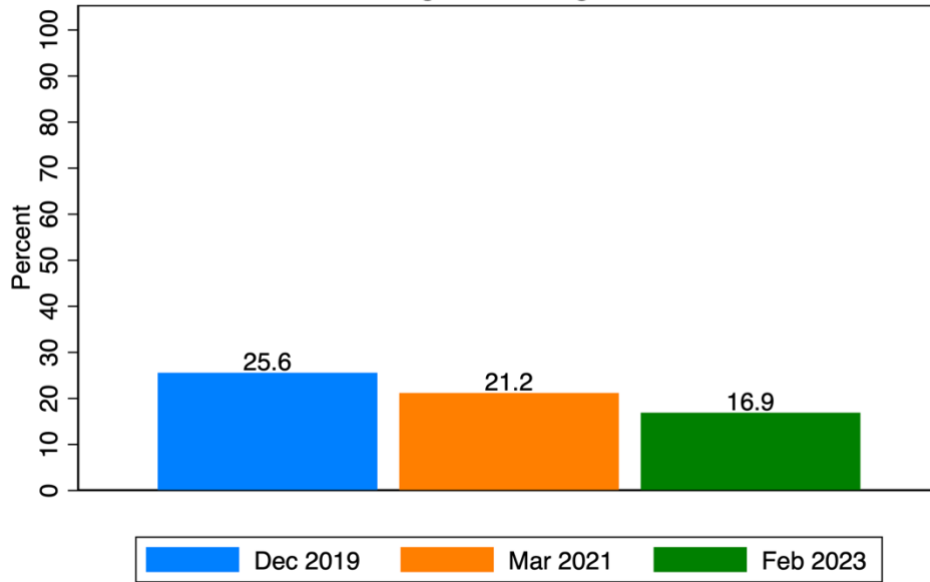
Use Taxi/Limo/Hired at Least One Day A Week
Among Ride Hailing Users
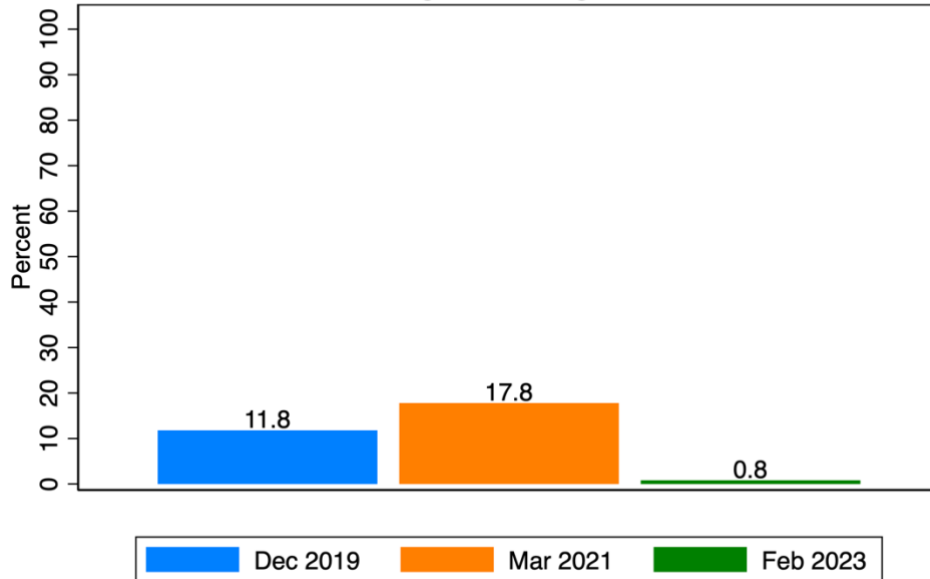
Use Bus at Least One Day A Week
Among Bus Users

Dec 2019	Mar 2021	Feb 2023
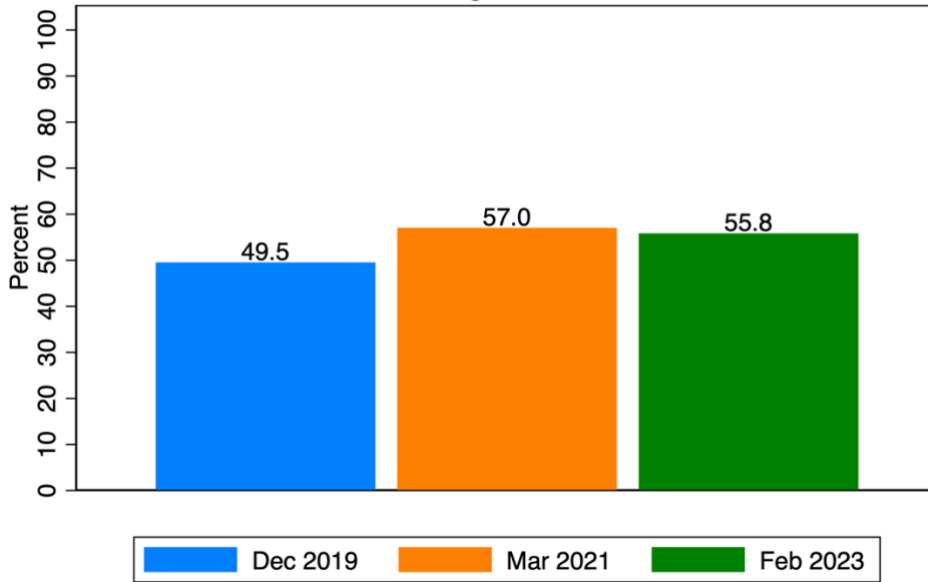
Use Metro at Least One Day A Week
Among Metro Users

Dec 2019	Mar 2021	Feb 2023
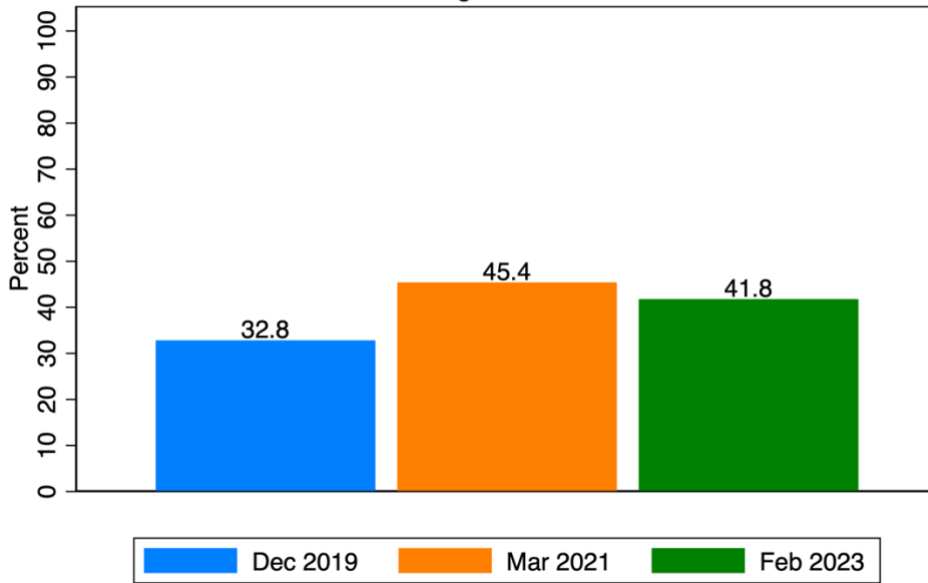
Use Metrolink/Amtrak/Dial-A-Ride at Least One Day A Week
Among Metrolink/Amtrak/Dial-A-Ride Users

Percent

- 31.1 (Dec 2019)
- 44.1 (Mar 2021)
- 28.6 (Feb 2023)

Dec 2019   Mar 2021   Feb 2023
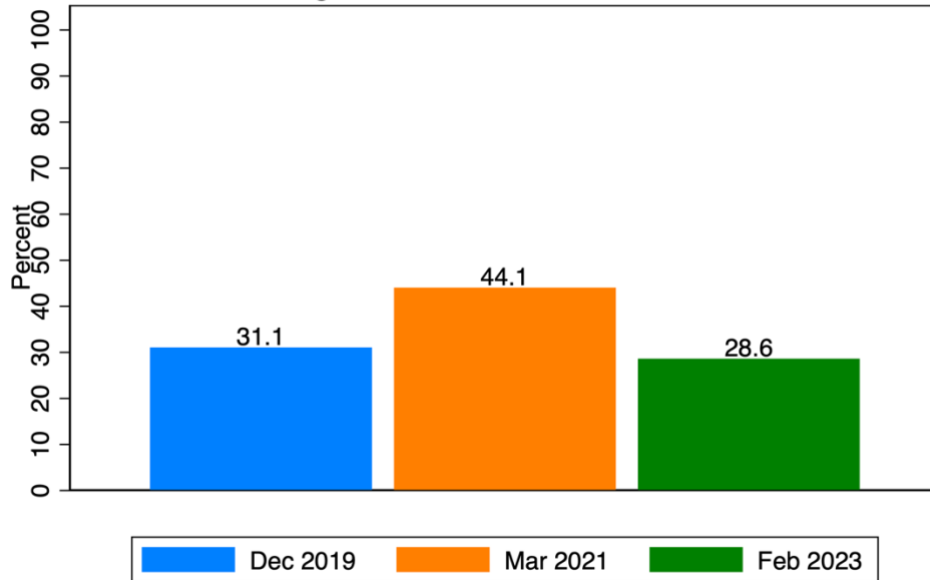
Walk/Skateboard/Kick Scooter at Least One Day A Week
Among Walkers/Skateboarders/Kick Scooterers

Percent

- 69.2 (Dec 2019)
- 72.6 (Mar 2021)
- 77.5 (Feb 2023)

Dec 2019   Mar 2021   Feb 2023

14
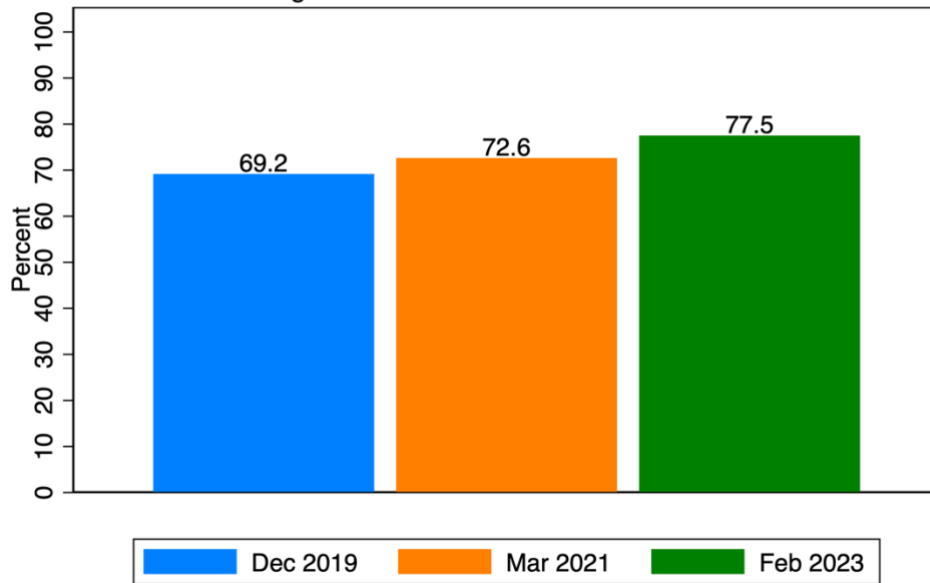
Bicycle or Bikeshare at Least One Day A Week
Among Bicycle or Bikeshare Users

Percent

54.3 54.5 55.1

Dec 2019 Mar 2021 Feb 2023
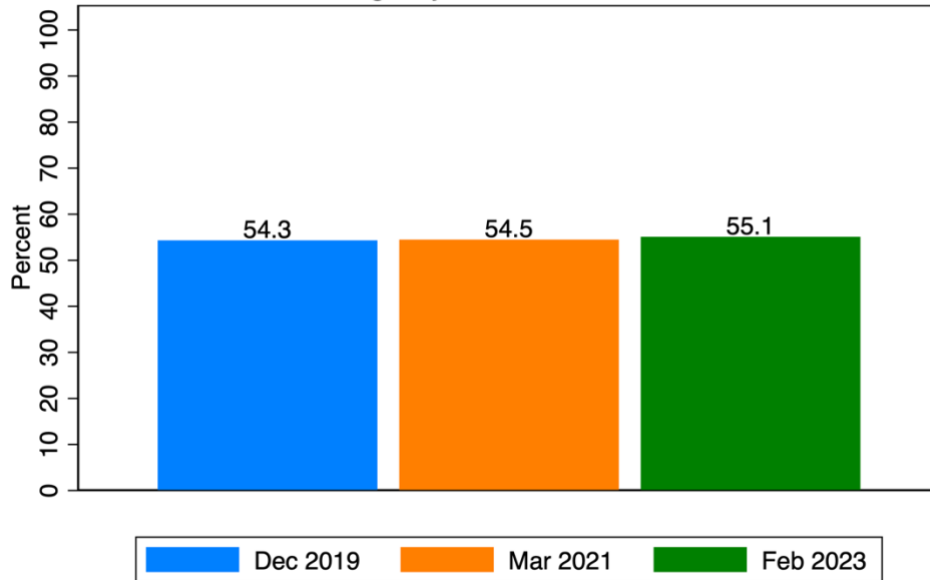
Use Electric Scooter/Bike/Skateboard at Least One Day A Wee
Among Electric Scooter/Bike/Skateboard Users

Percent

33.5 33.4 32.6

Dec 2019 Mar 2021 Feb 2023
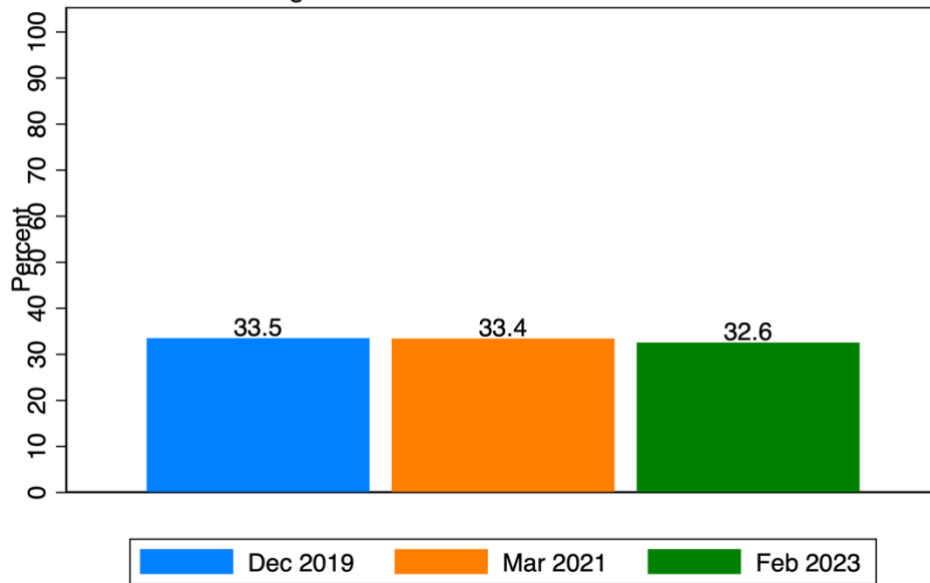
Use Motorcycle at Least One Day A Week
Among Motorcycle Users

Legend: Dec 2019 (blue), Mar 2021 (orange), Feb 2023 (green)

Values: 49.0, 43.4, 59.4
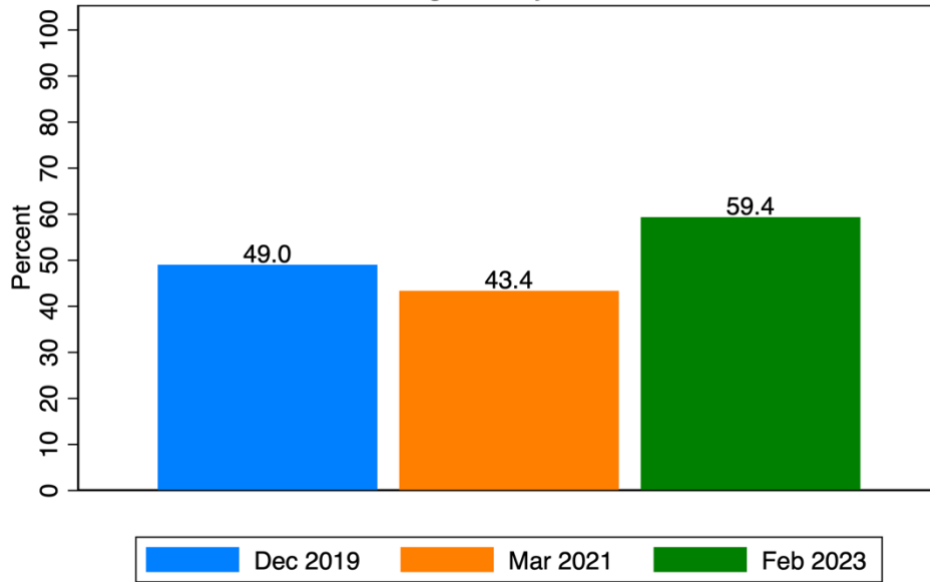
Transportation Perceptions

Private Vehicle Safe

Bus Safe
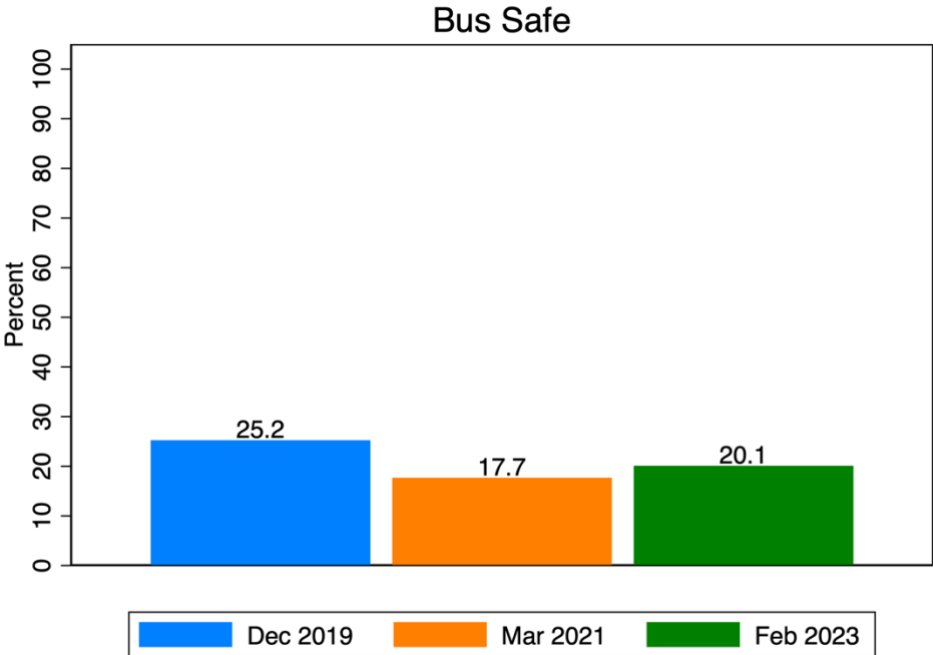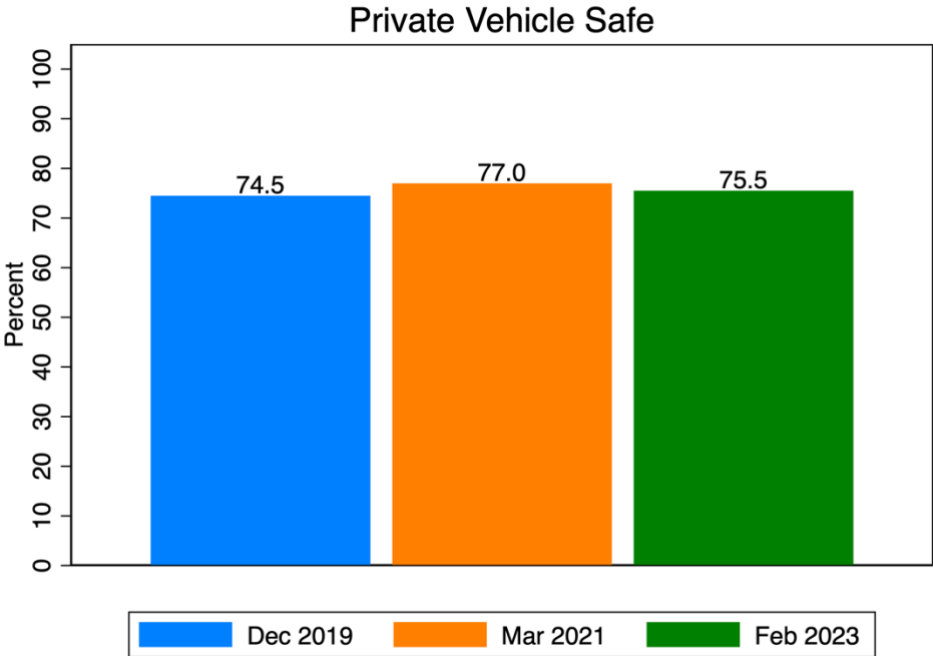
Metro Safe
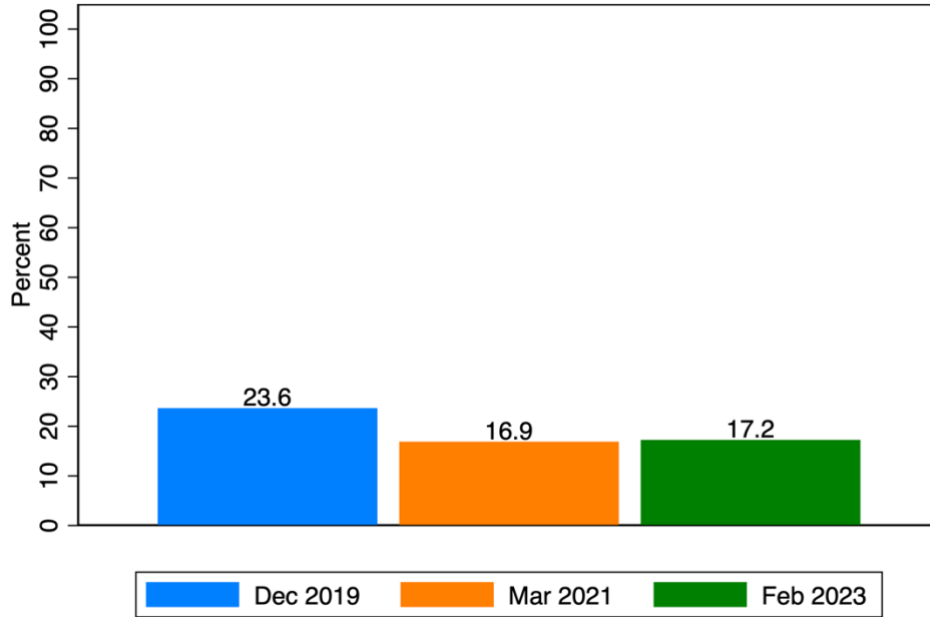
Ride Hailing Safe
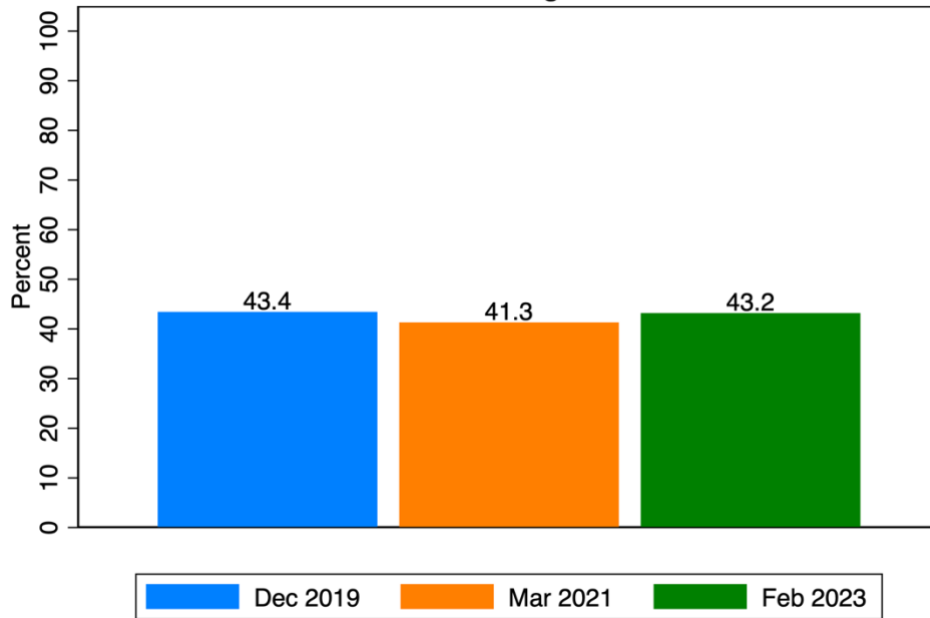
Private Vehicle Convenient for Work/School

Dec 2019	70.0
Mar 2021	77.4
Feb 2023	73.6

Bus Convenient for Work/School

Dec 2019	24.8
Mar 2021	22.7
Feb 2023	20.0

19
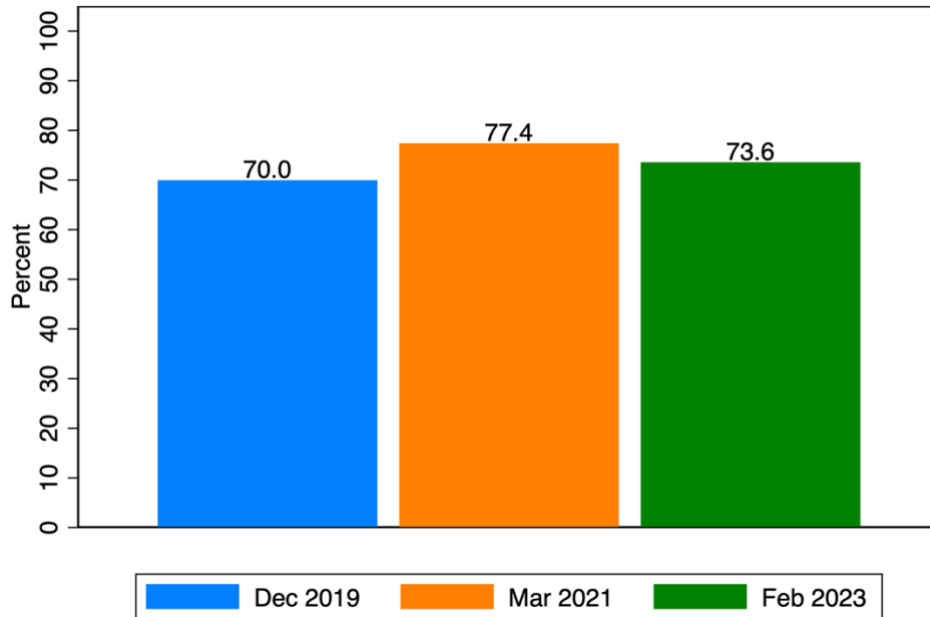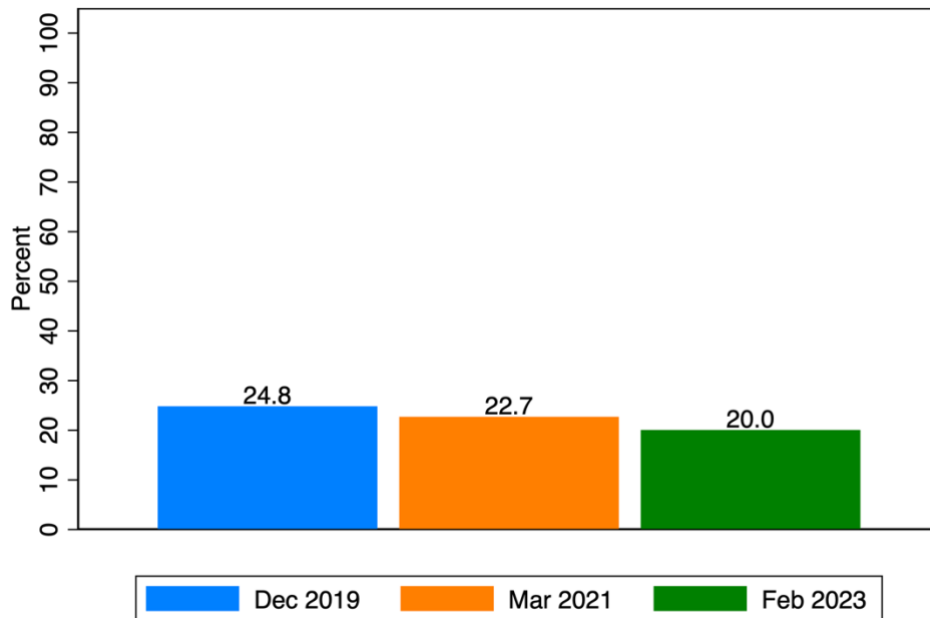
Metro Convenient for Work/School
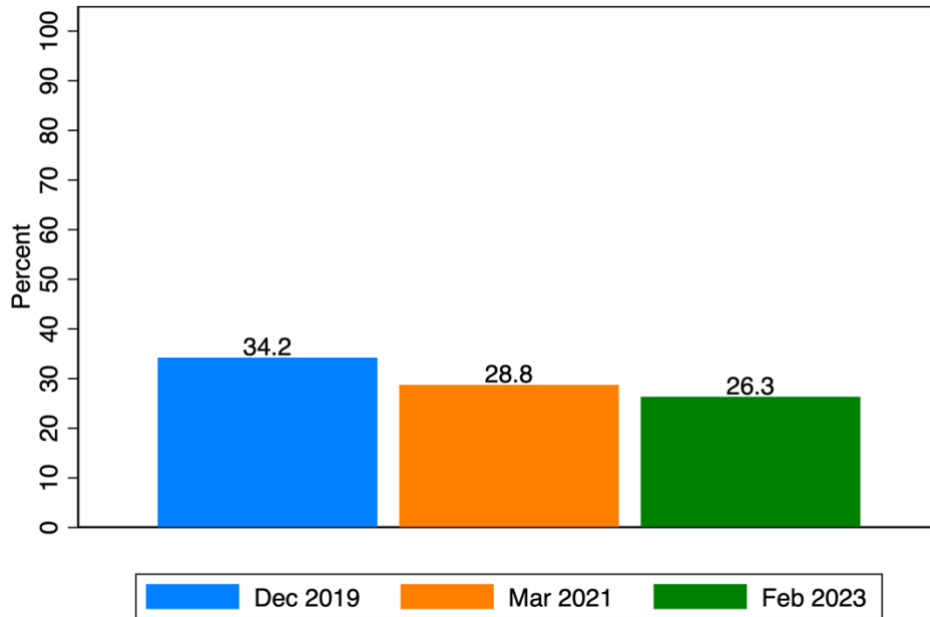
Ride Hailing Convenient for Work/School
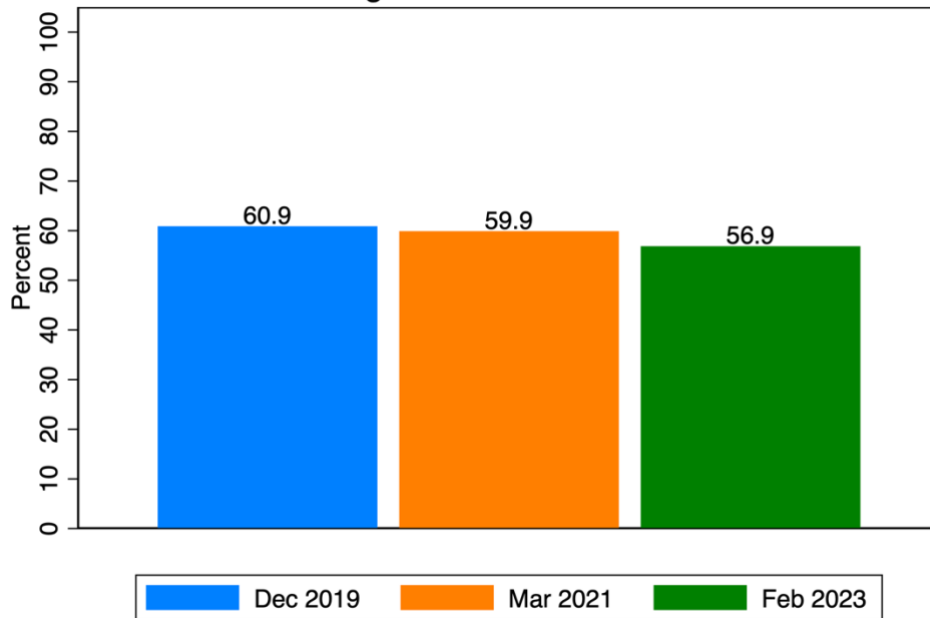
Private Vehicle Convenient for Personal/Leisure
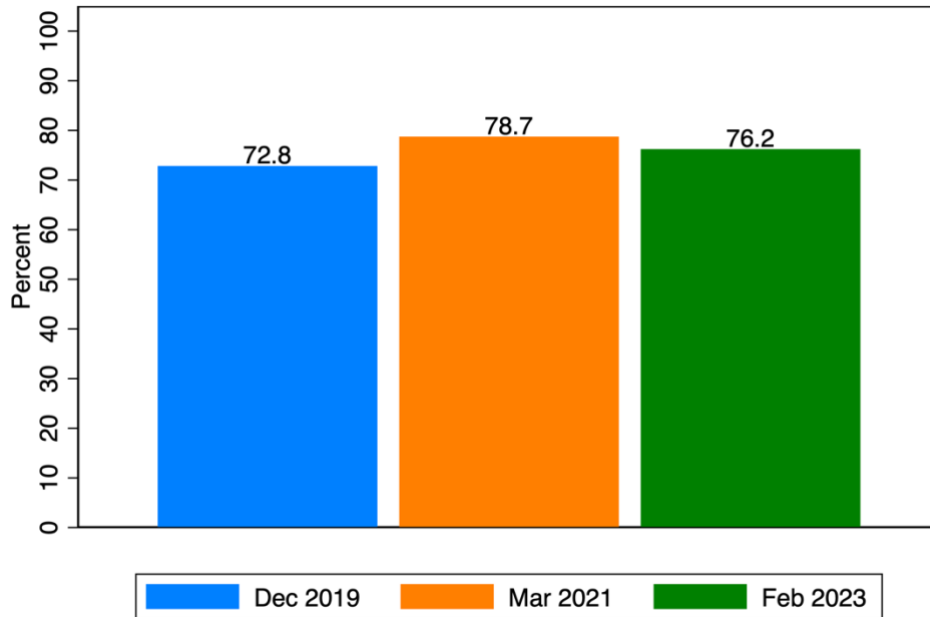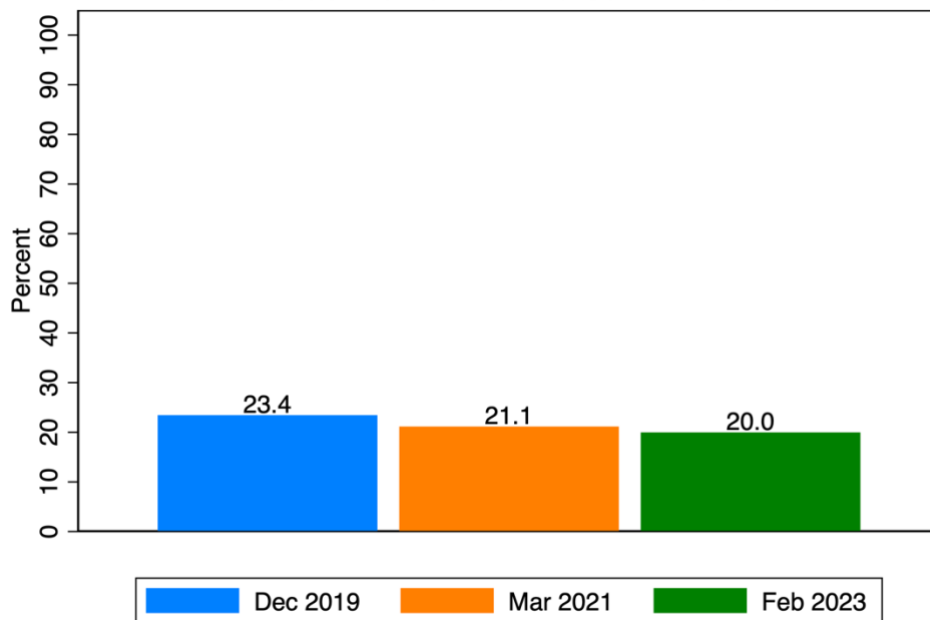
| | Dec 2019 | Mar 2021 | Feb 2023 |

Bus Convenient for Personal/Leisure

| | Dec 2019 | Mar 2021 | Feb 2023 |

Metro Convenient for Personal/Leisure

| | Dec 2019 | Mar 2021 | Feb 2023 |

Values shown: 37.4, 31.8, 26.0

Ride Hailing Convenient for Personal/Leisure

| | Dec 2019 | Mar 2021 | Feb 2023 |

Values shown: 66.2, 61.1, 58.6
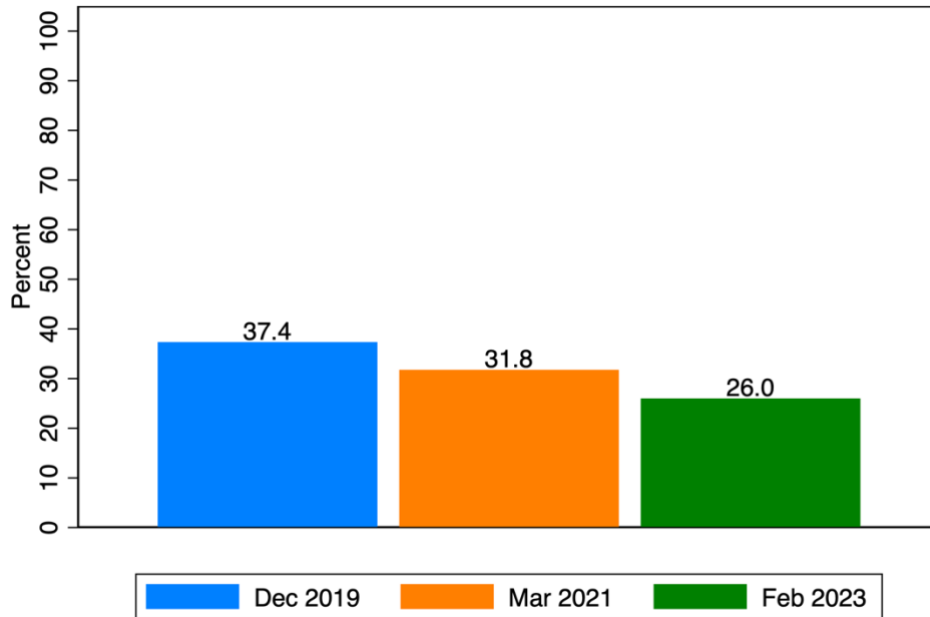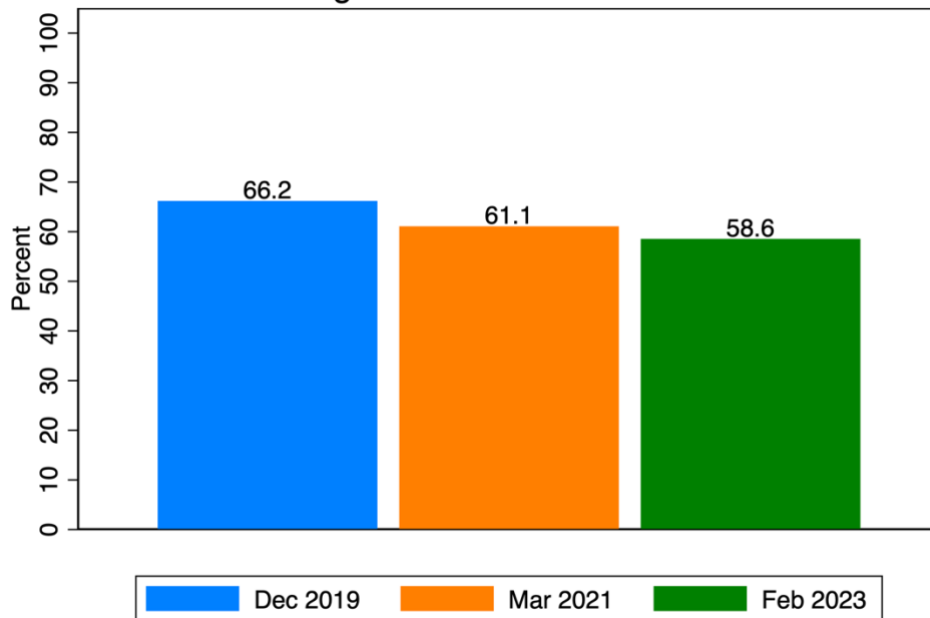
Private Vehicle Inexpensive
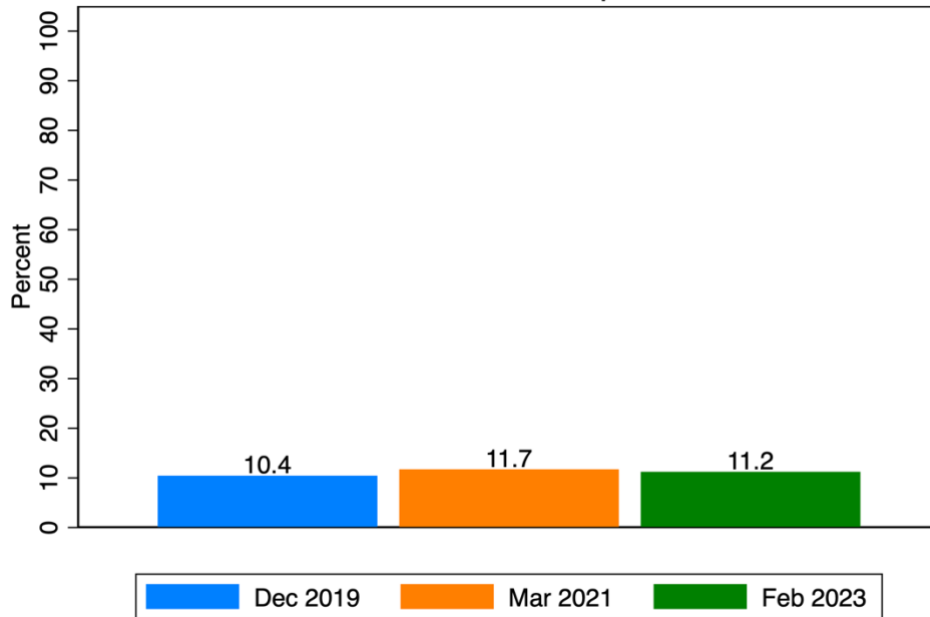
Bus Inexpensive
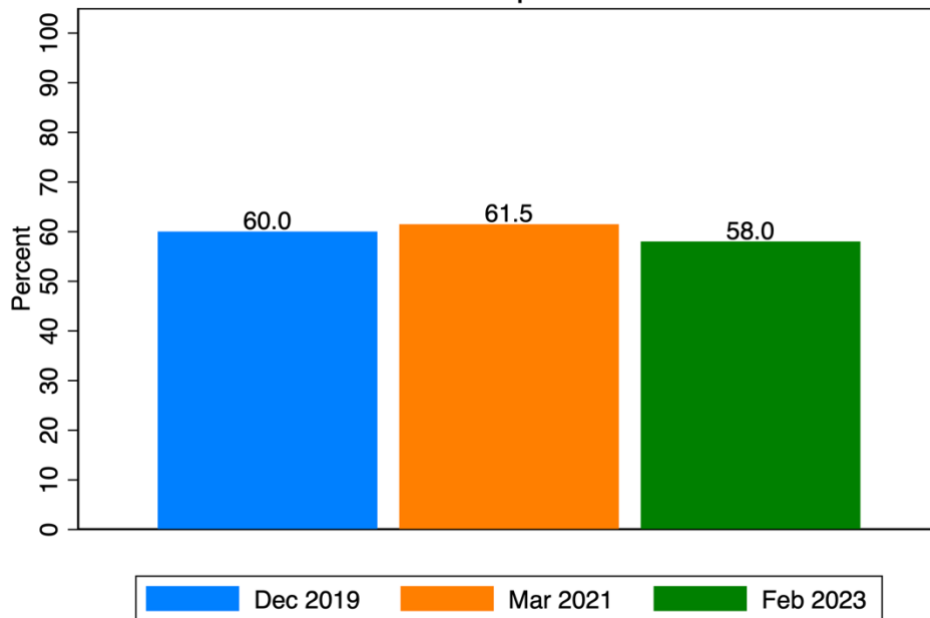
Metro Inexpensive
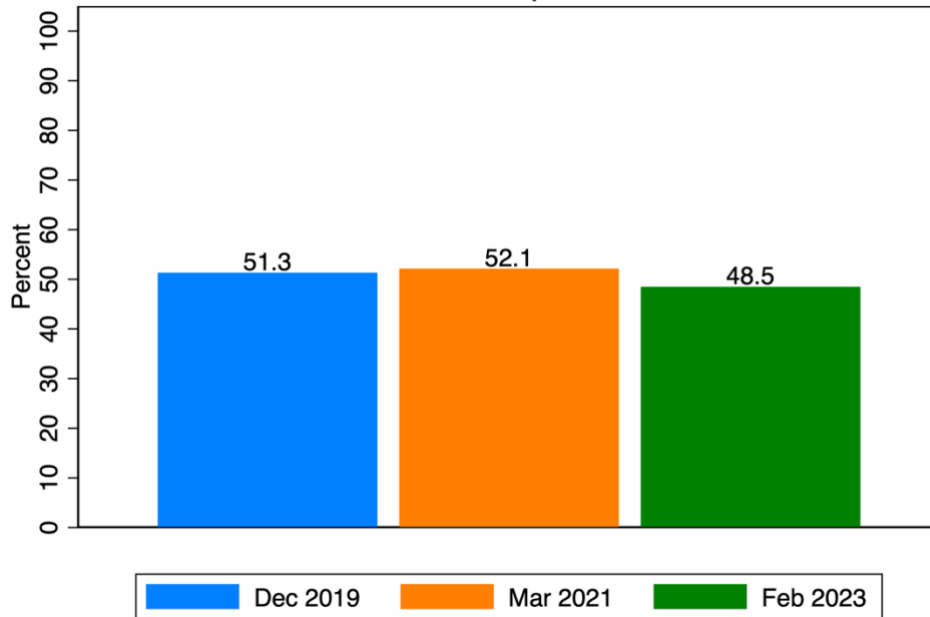
Ride Hailing Inexpensive

Transportation Access

Vehicles Own or Lease

Mean # of Vehicles

- Dec 2019: 2.0
- Mar 2021: 2.0
- Feb 2023: 1.9

Legend: Dec 2019 | Mar 2021 | Feb 2023

Likely to Buy Vehicle in the next 12 Months

percent

- Dec 2019: 25.2
- Mar 2021: 24.1
- Feb 2023: 19.5

Legend: Dec 2019 | Mar 2021 | Feb 2023
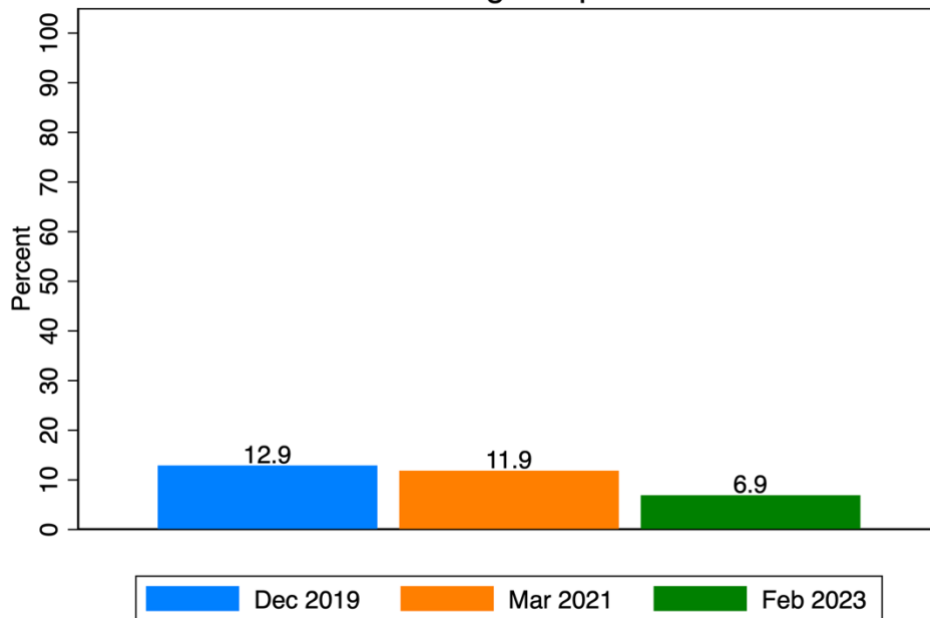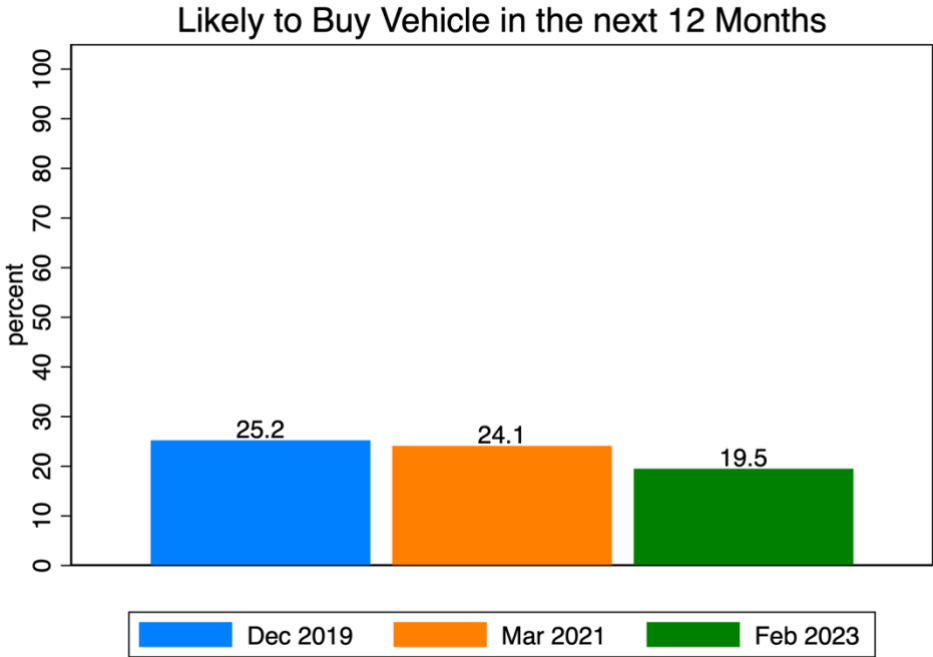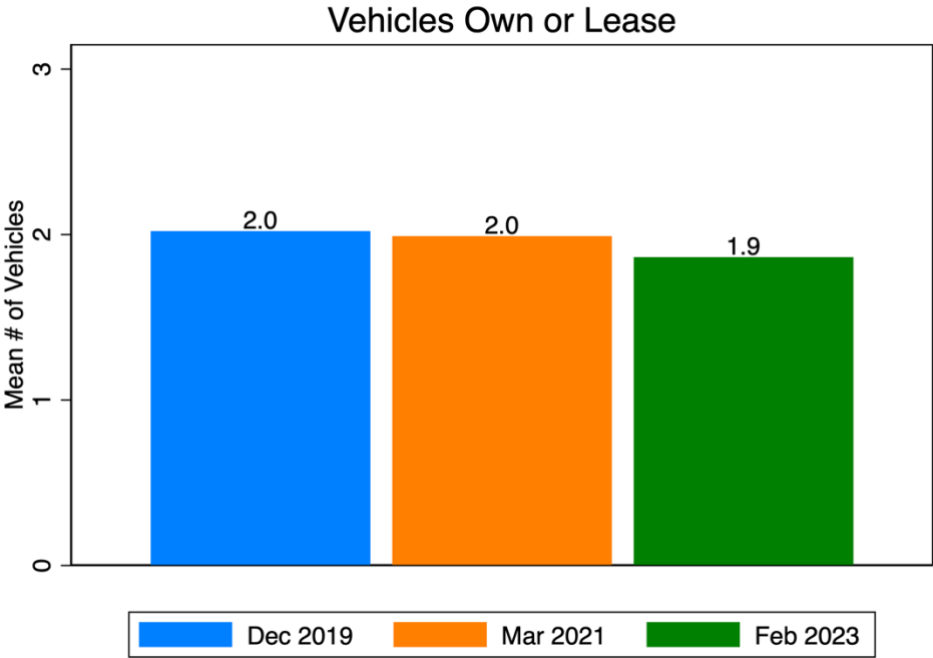
Enrolled in Commuter Benefit Program
Among those offered program by employer

Coolness and Heat

Visited Some Place to Cool Down

Visited Some Place to Warm Up
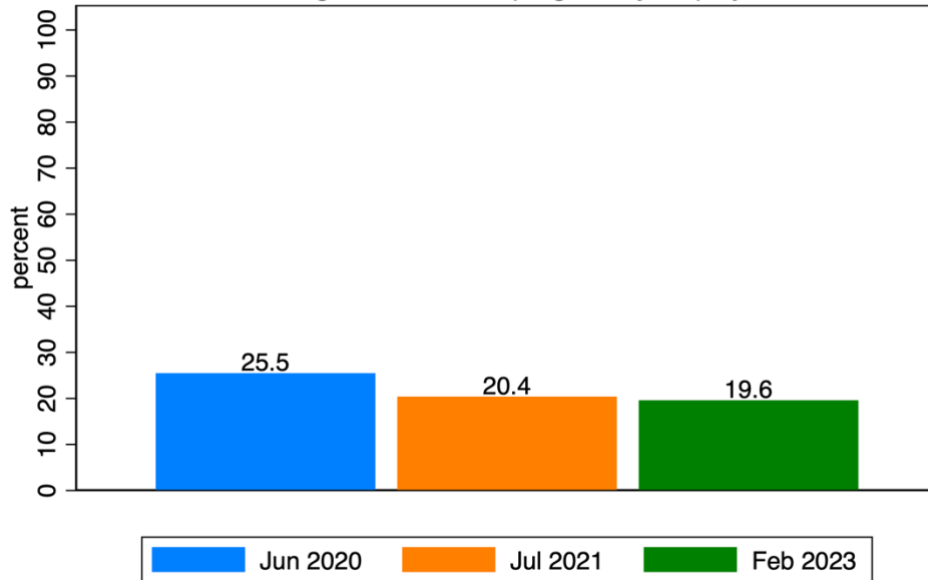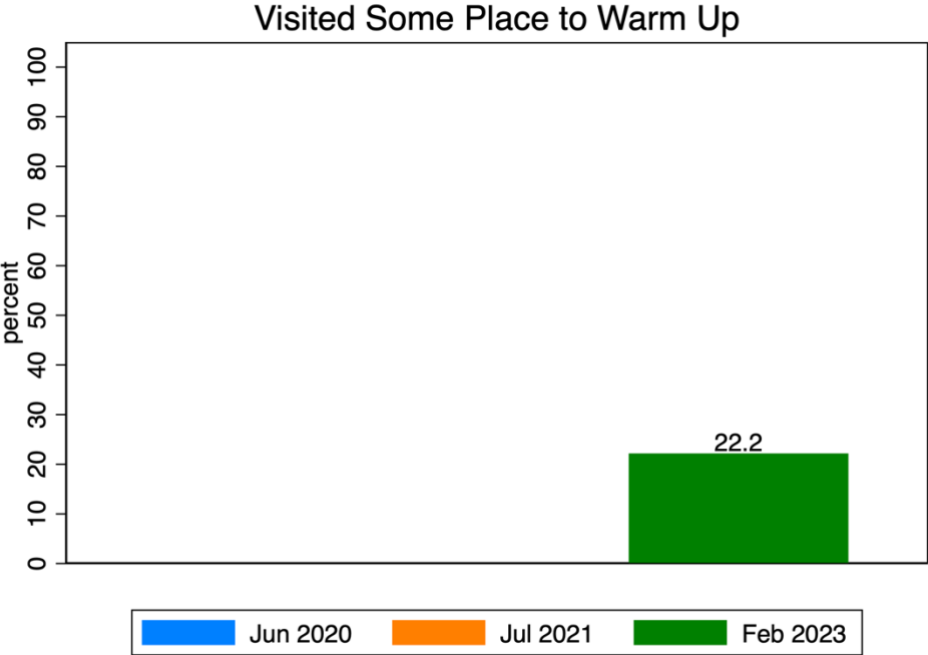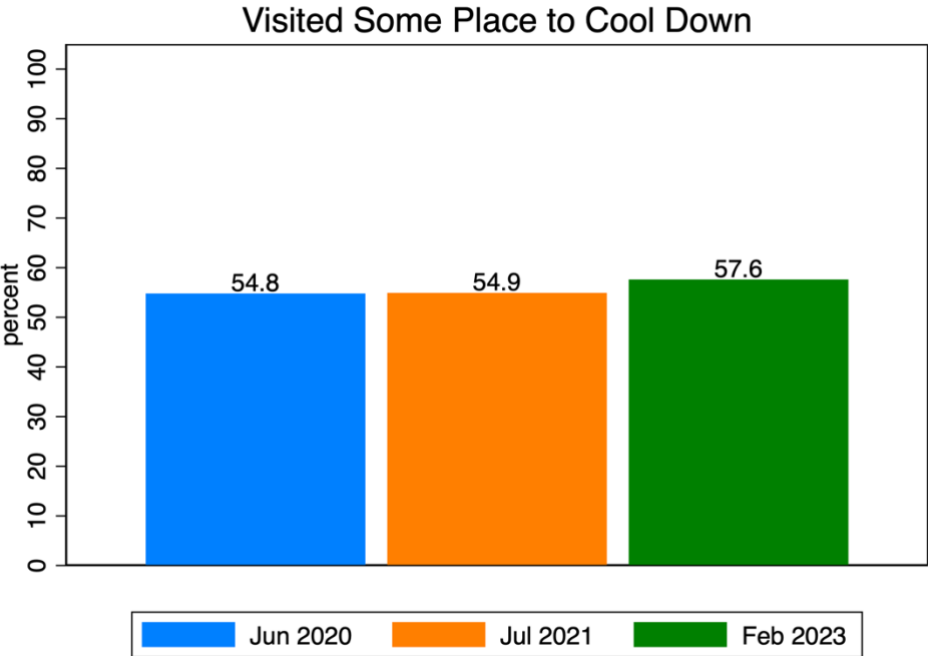
Experienced Symptoms Related to Heat Exposure

52.9 Jun 2020
51.0 Jul 2021
39.1 Feb 2023
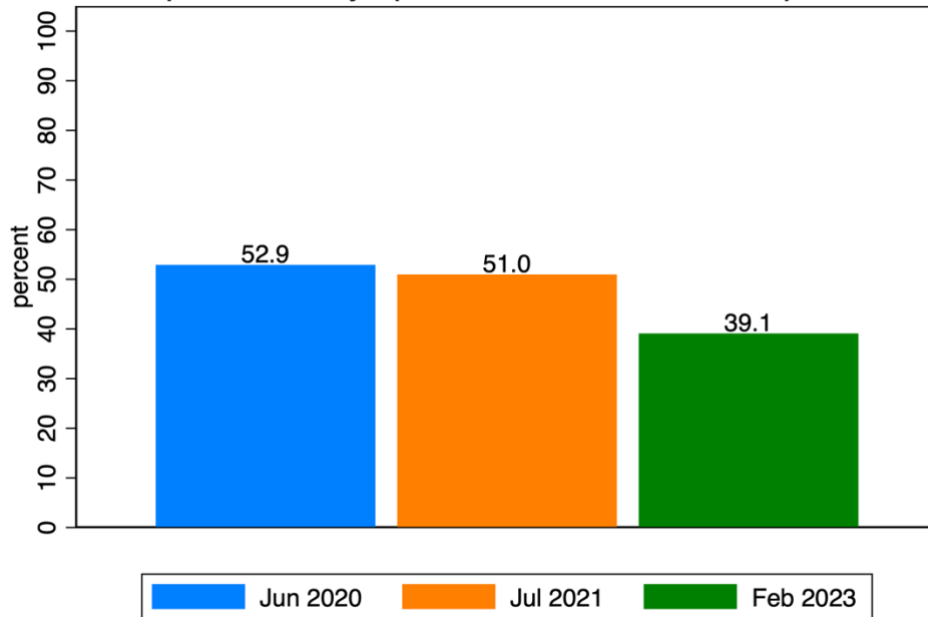
Hospitalized Due to Heat

0.2 Jun 2020
0.0 Feb 2023
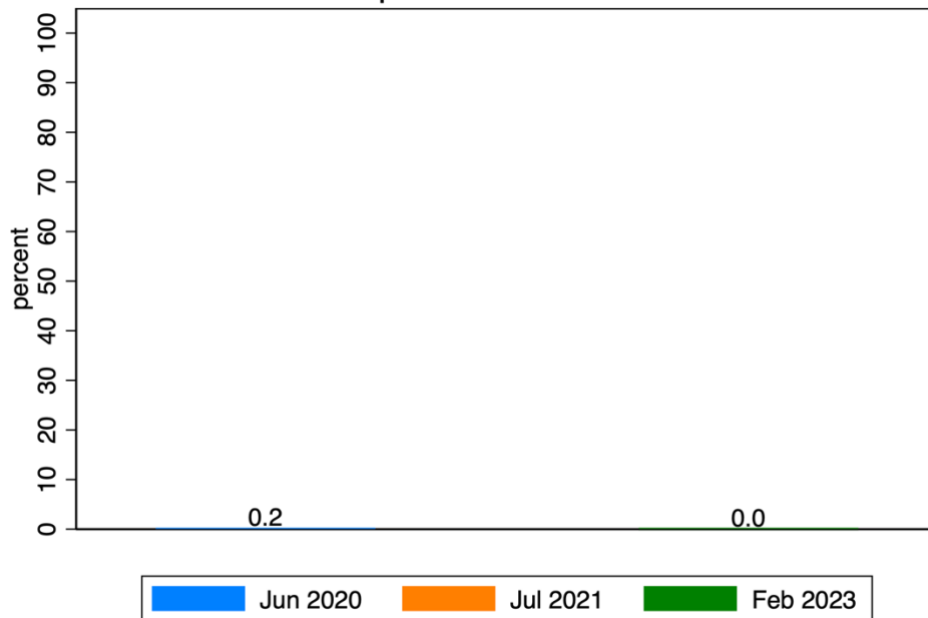
Pollution

Agree Safe Air Quality in Home

| | Jun 2020 | Jul 2021 | Feb 2023 |
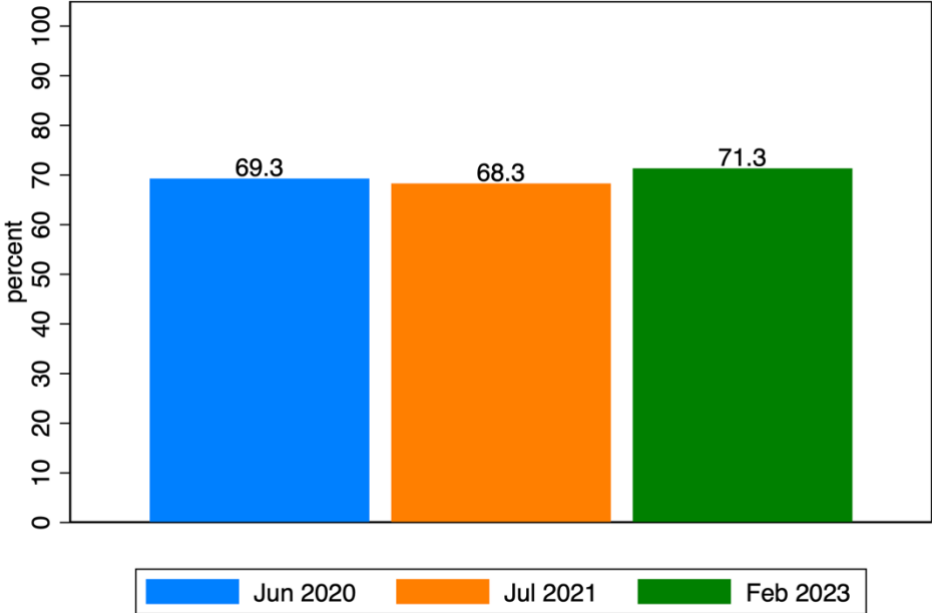
Agree Safe Air Quality in Neighborhood

| | Jun 2020 | Jul 2021 | Feb 2023 |
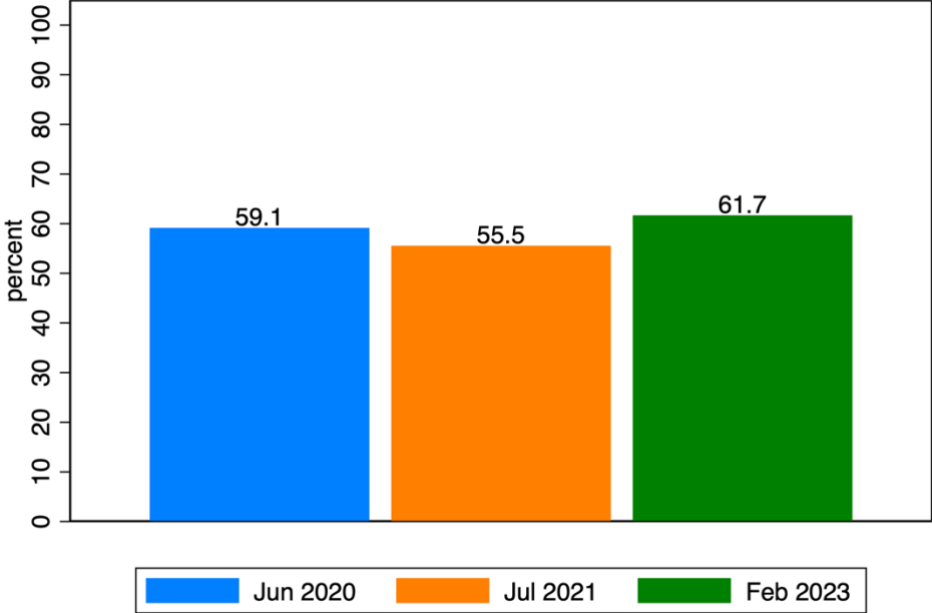
Agree Safe Water for Drinking in Neighborhood

Jun 2020   Jul 2021   Feb 2023
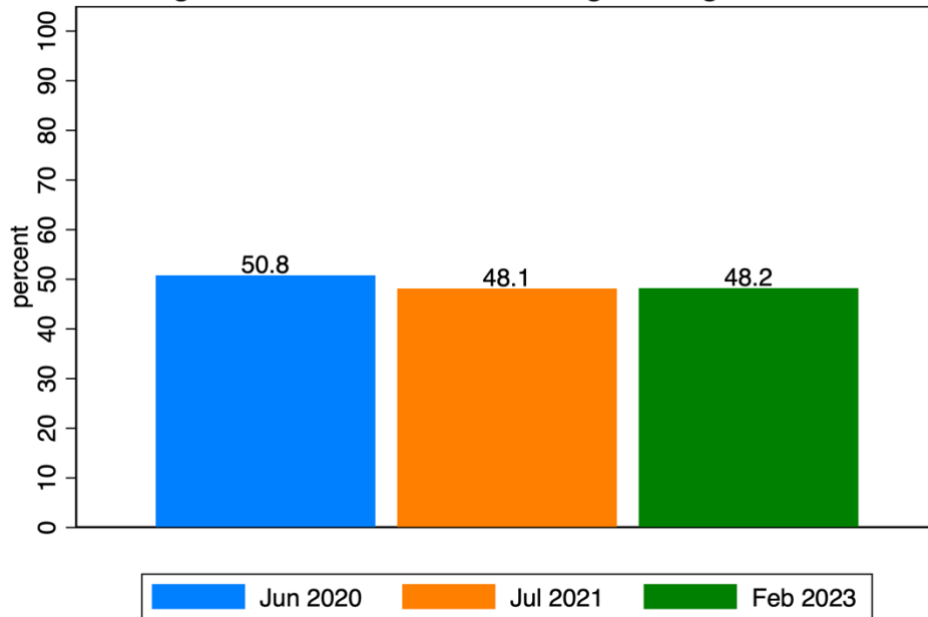
Agree Safe Air Quality at Work

Jun 2020   Jul 2021   Feb 2023
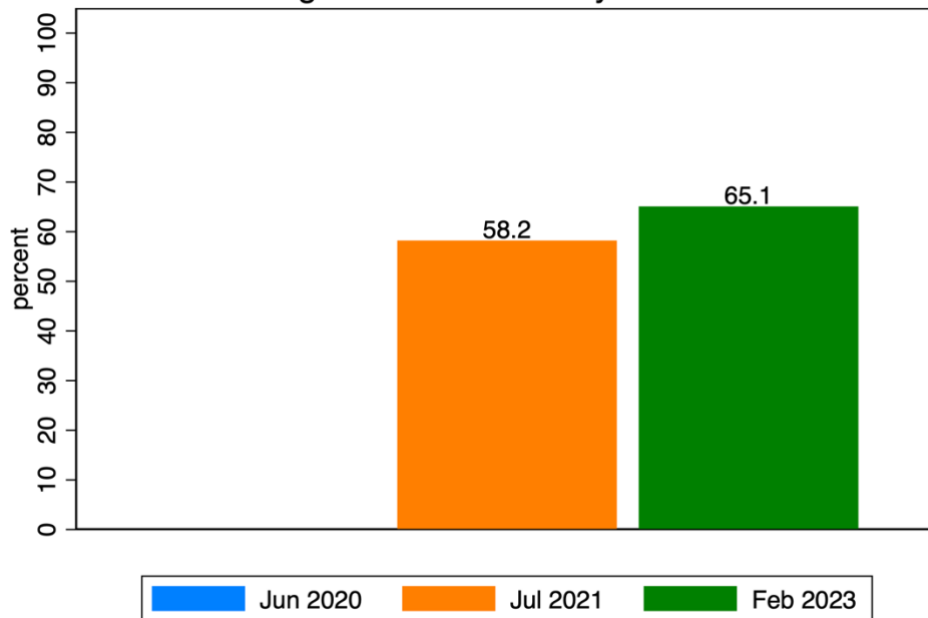
Avoided Going Outside Due to Wildfire
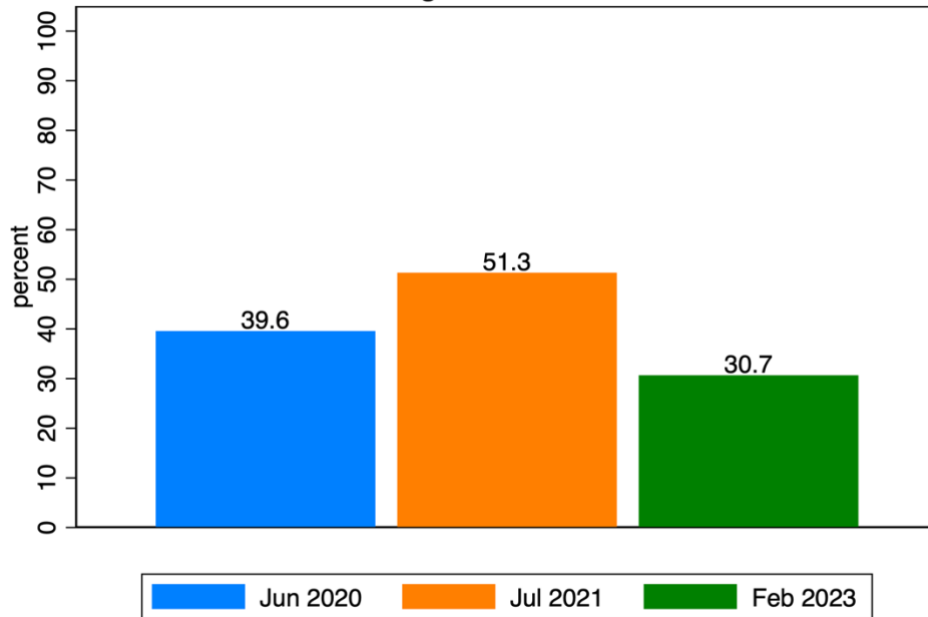
Avoided Going Outside NOT Due to Wildfire
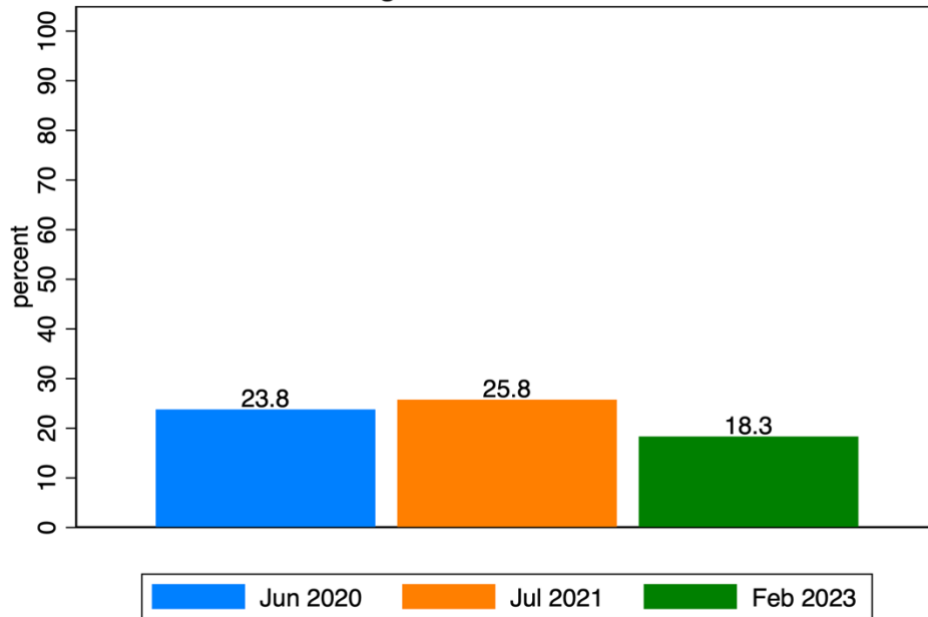
Avoided Specific Places Due to Air Quality Concern
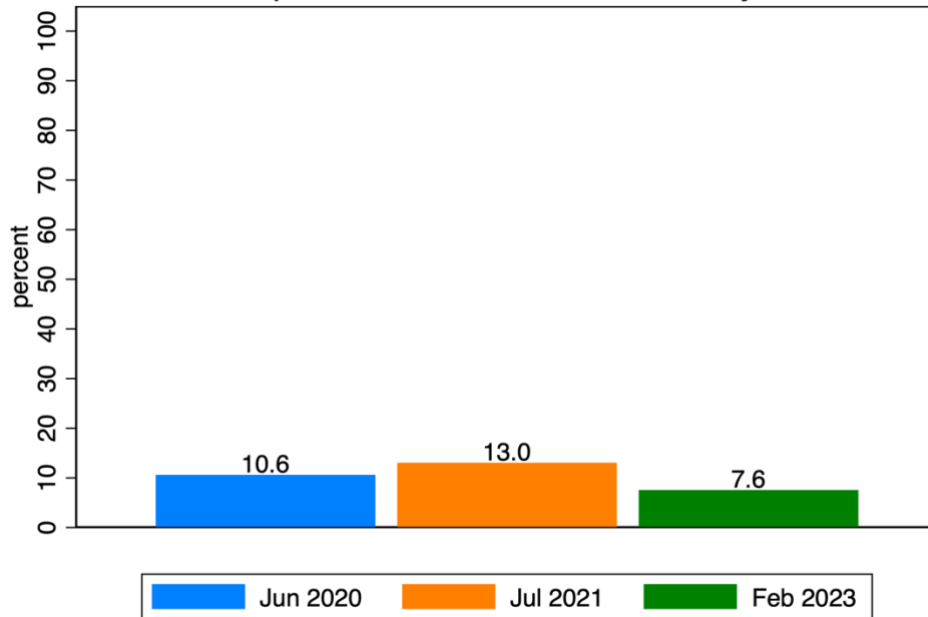
Climate Change Attitudes

Believe Climate Change is Threat to LA County Residents

72.3   76.7   72.7

Jun 2020   Jul 2021   Feb 2023

Believe Climate Change is Caused by Humans

70.8   73.4   73.1

Jun 2020   Jul 2021   Feb 2023
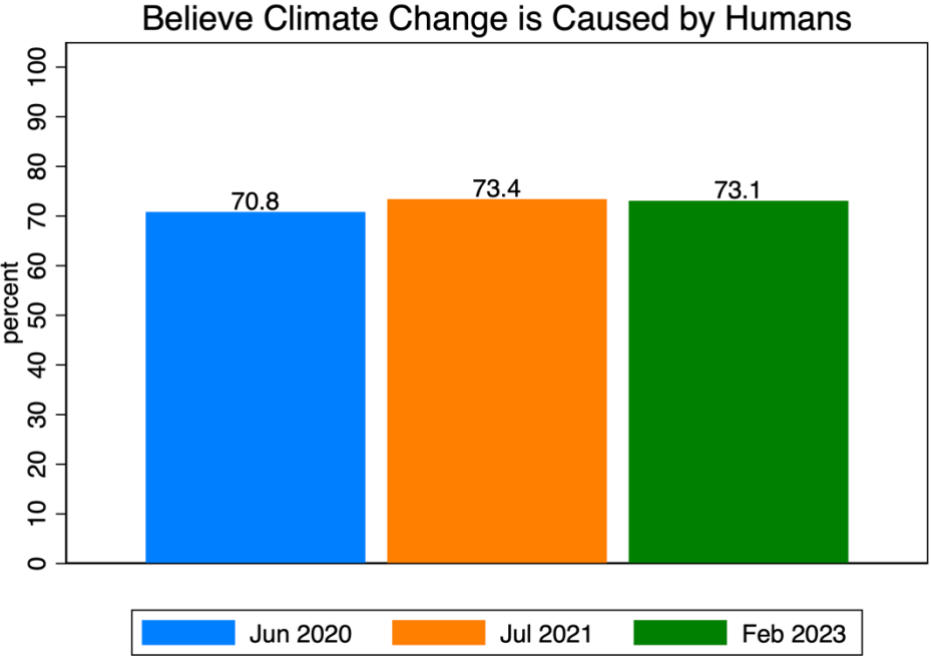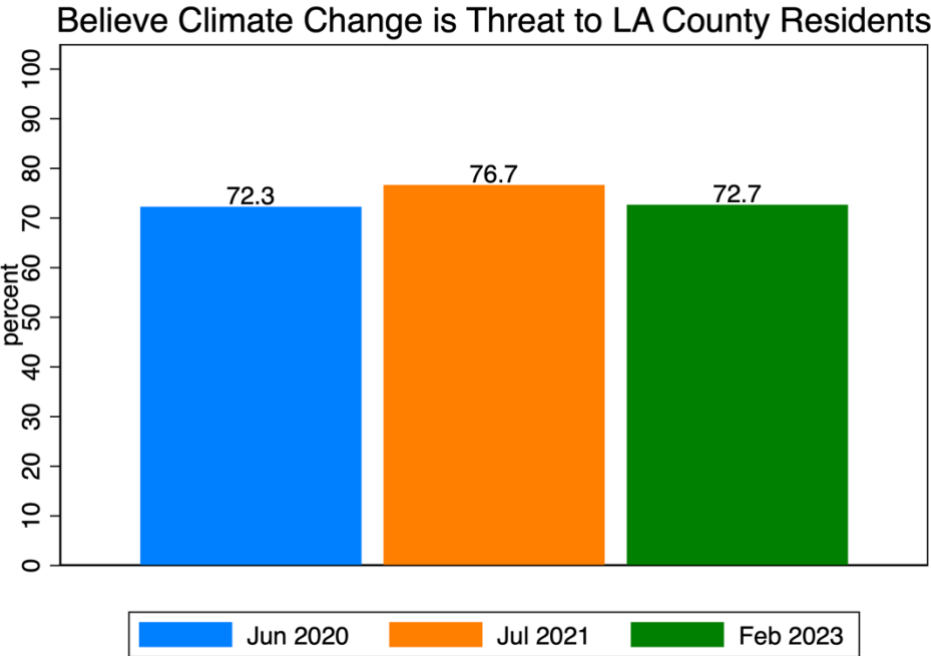
Believe Local Government is Doing Enough
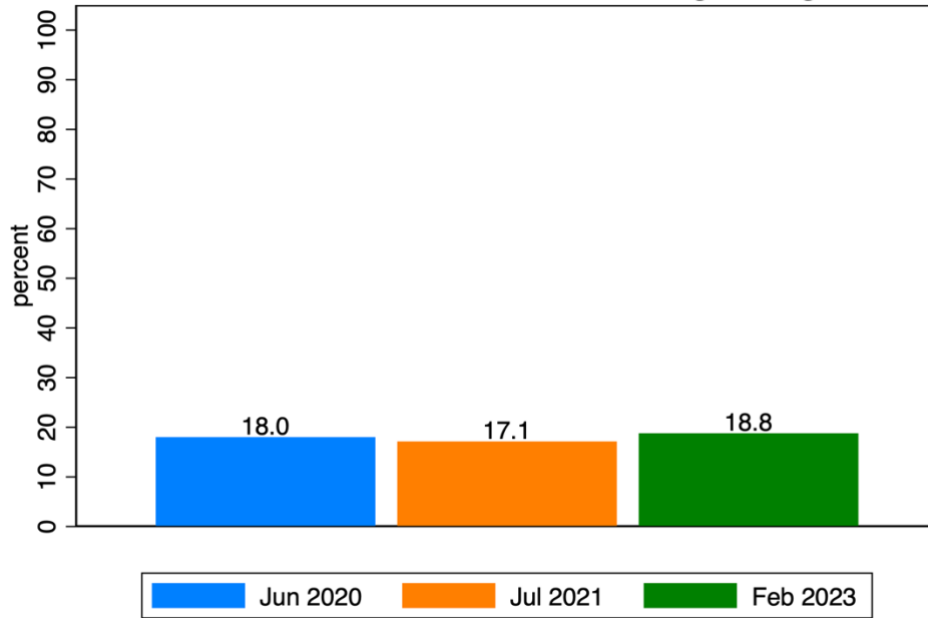
Sustainable Behavior

Home Has: Solar Panels

percent

8.0   8.6   10.6

Jun 2020   Jul 2021   Feb 2023

Home Has: Solar water heater

percent

1.0   1.2   1.7

Jun 2020   Jul 2021   Feb 2023
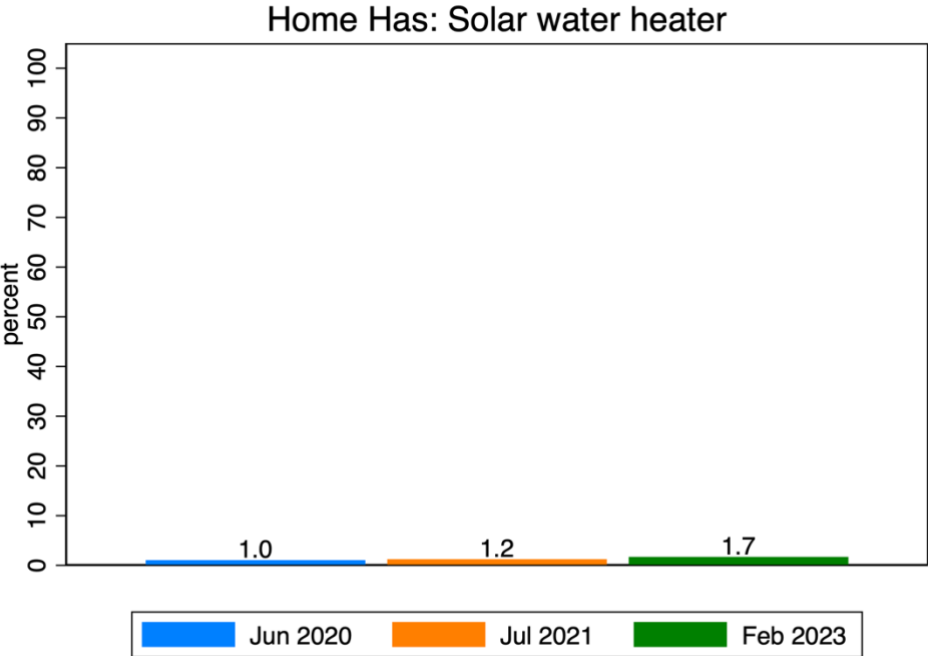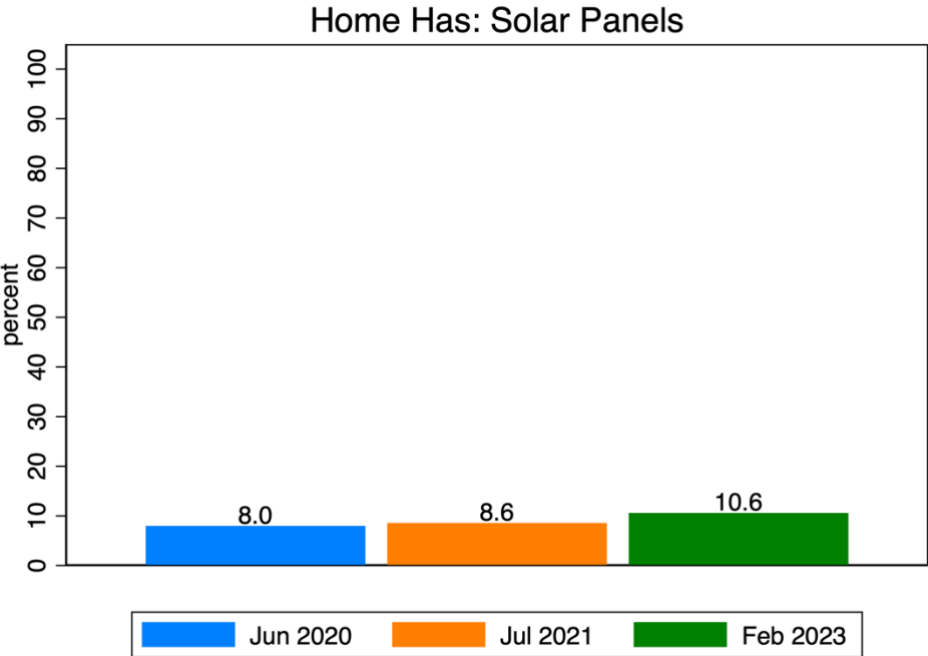
Home Has: Wind Turbine
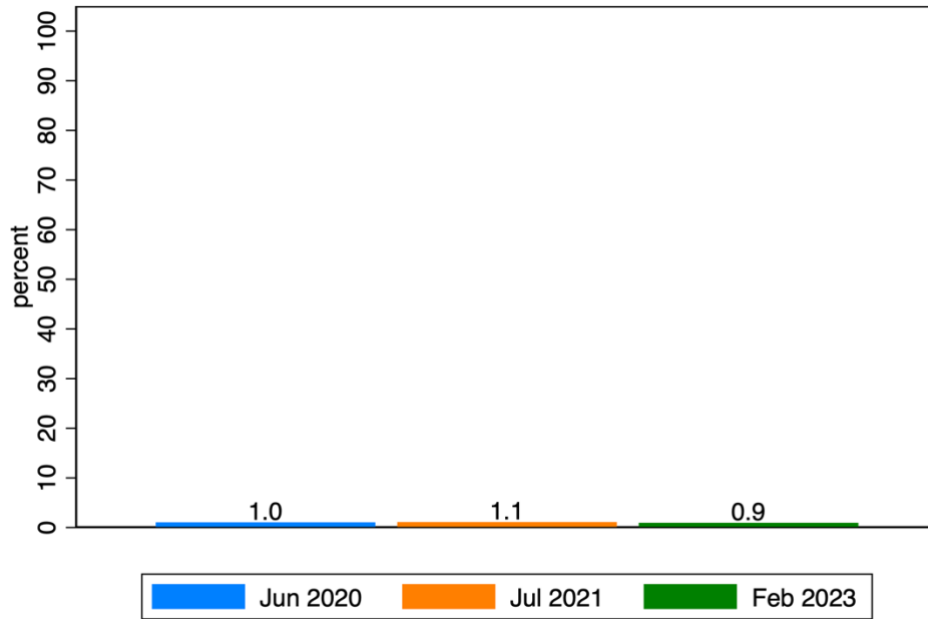
Home Has: Geothermal Heat Pump

36
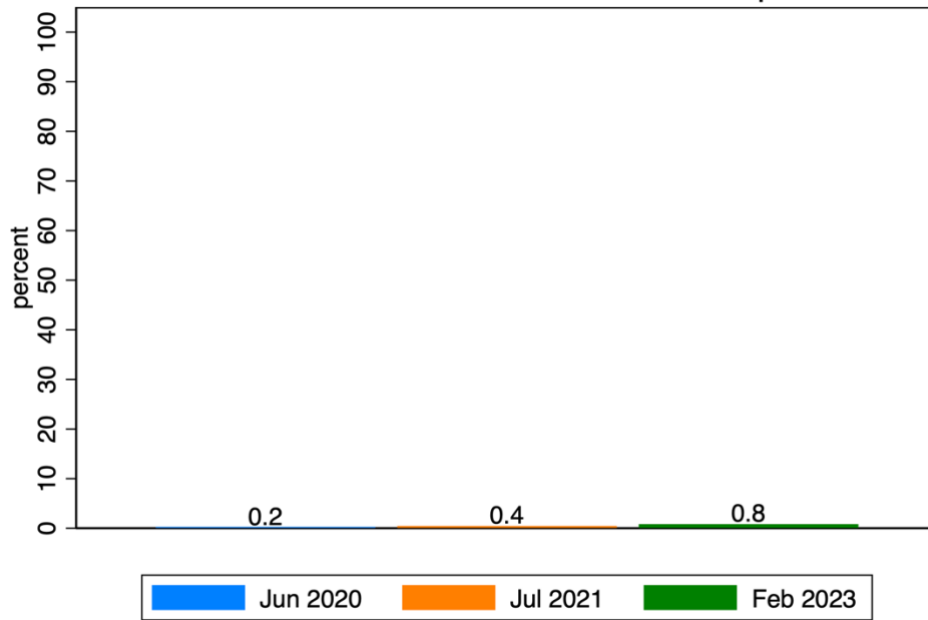
Home Has: Fuel Cell Equipment

percent

0.9   0.9   1.0

| Jun 2020 | Jul 2021 | Feb 2023 |
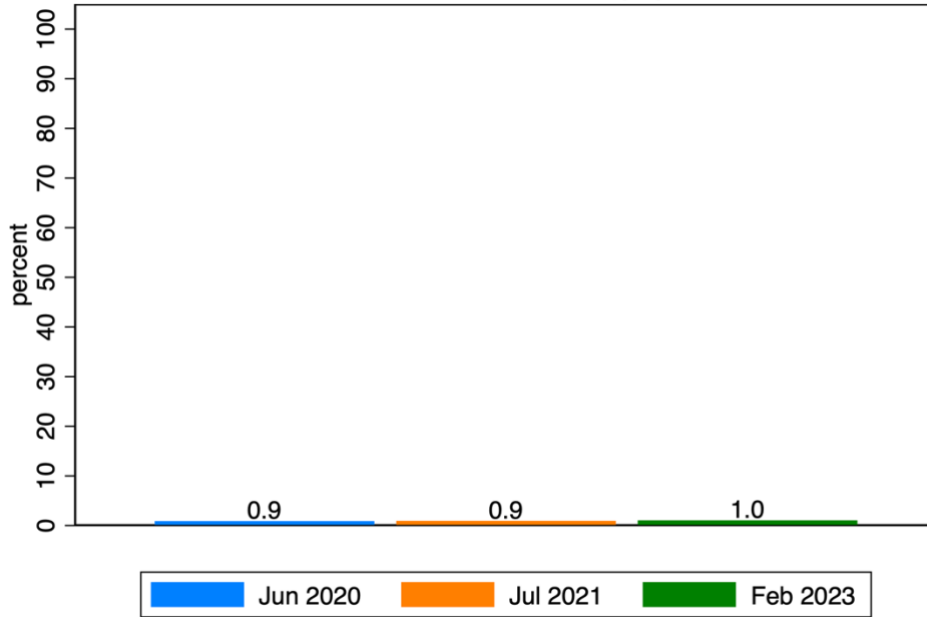
Home Has: Low-flow plumbing fixtures

percent

25.6   24.2   26.3

| Jun 2020 | Jul 2021 | Feb 2023 |
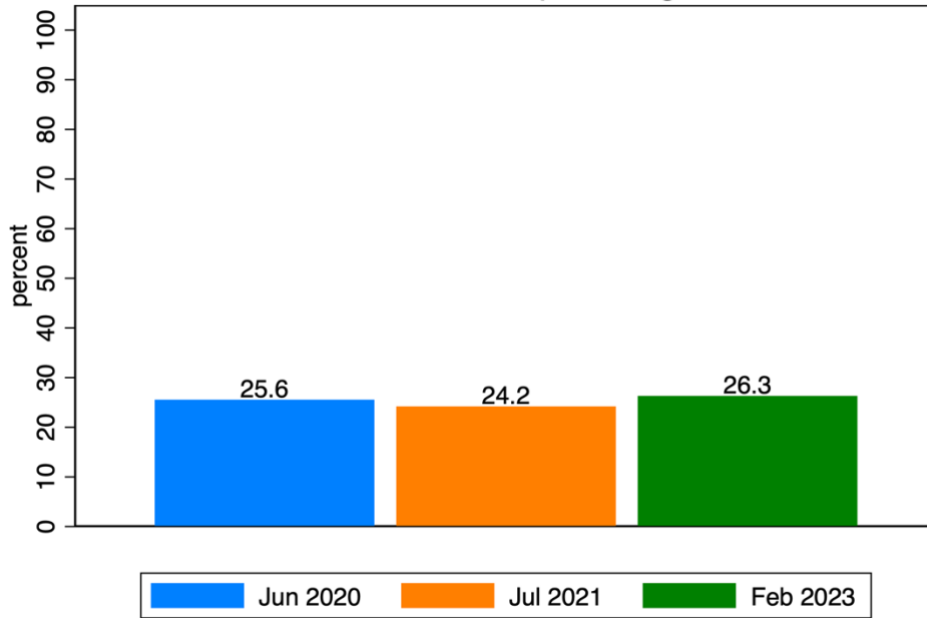
Home Has: Tankless Water Heater

Jun 2020	Jul 2021	Feb 2023
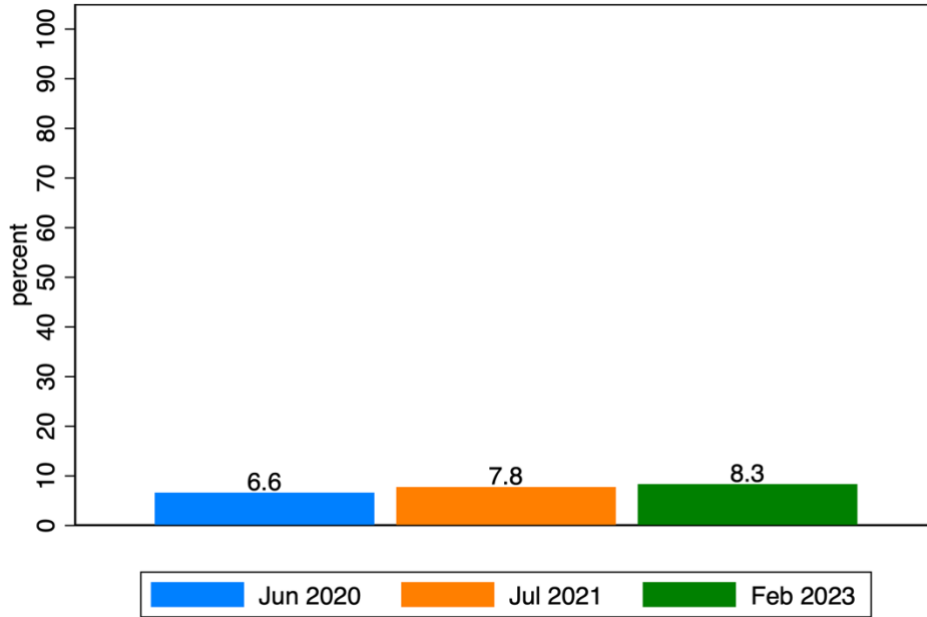
Home Has: LED or CFL Light Bulbs

Jun 2020	Jul 2021	Feb 2023

Home Has: Daylights

Jun 2020: 19.5 | Jul 2021: 17.8 | Feb 2023: 22.0

Home Has: Ceiling fan

Jun 2020: 57.6 | Jul 2021: 55.9 | Feb 2023: 56.8
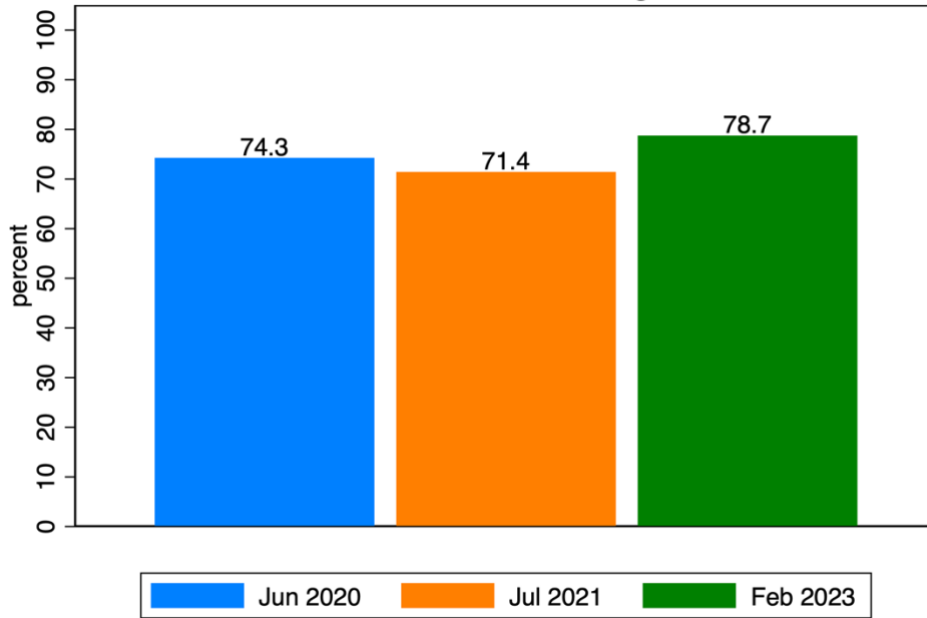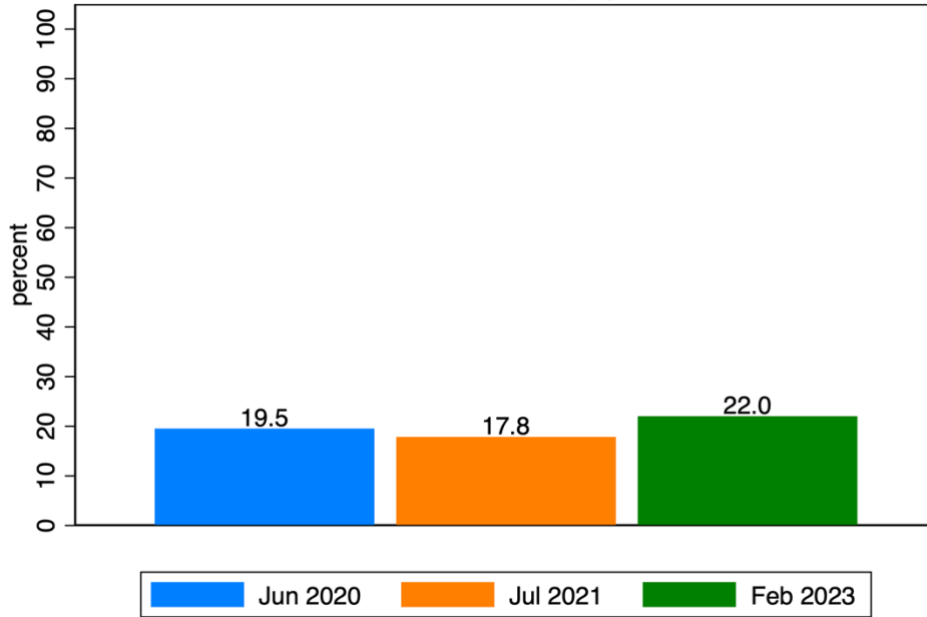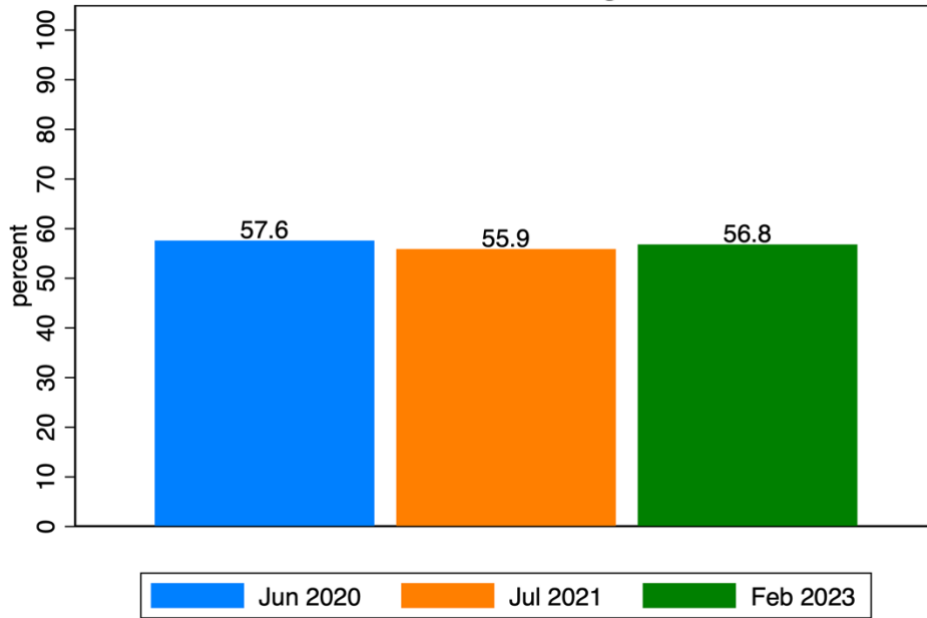
Home Has: Programmable Thermostat
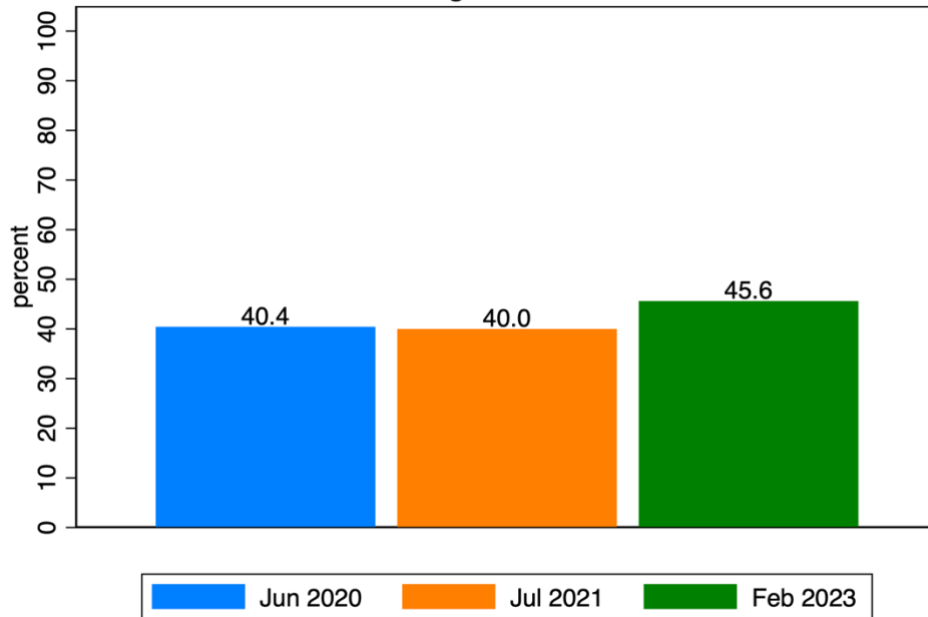
Home Has: Well-Insulated Windows/Doors
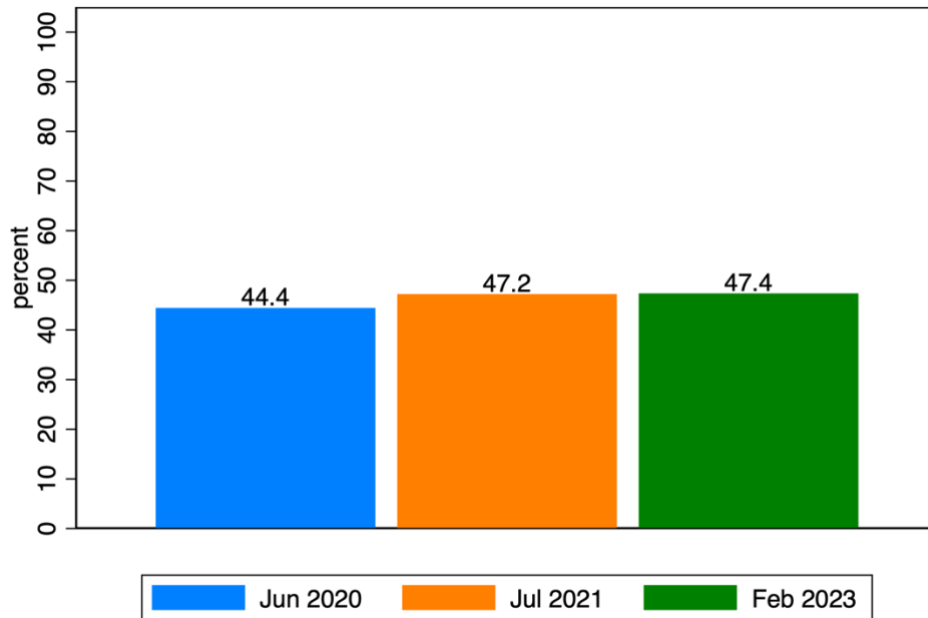
Home Has: Energy-Efficient Appliances/Eletronics

| Jun 2020 | Jul 2021 | Feb 2023 |
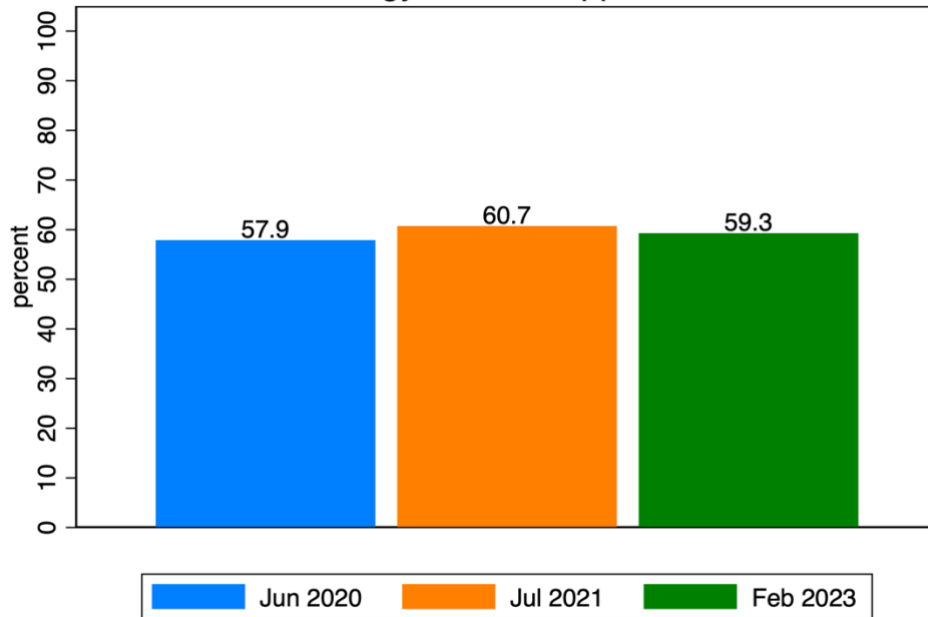
Home Has: Energy-Efficient Landscaping

| Jun 2020 | Jul 2021 | Feb 2023 |

How Often: Recycle

percent

75.6   77.6   77.4

| Jun 2020 | Jul 2021 | Feb 2023 |

How Often: Compost

percent

12.1   12.2   15.1

| Jun 2020 | Jul 2021 | Feb 2023 |
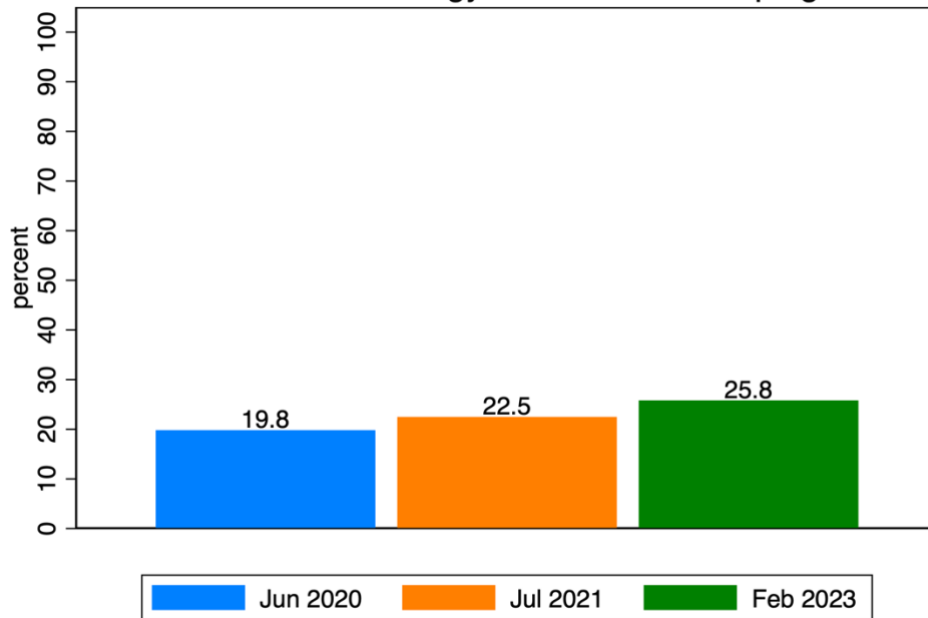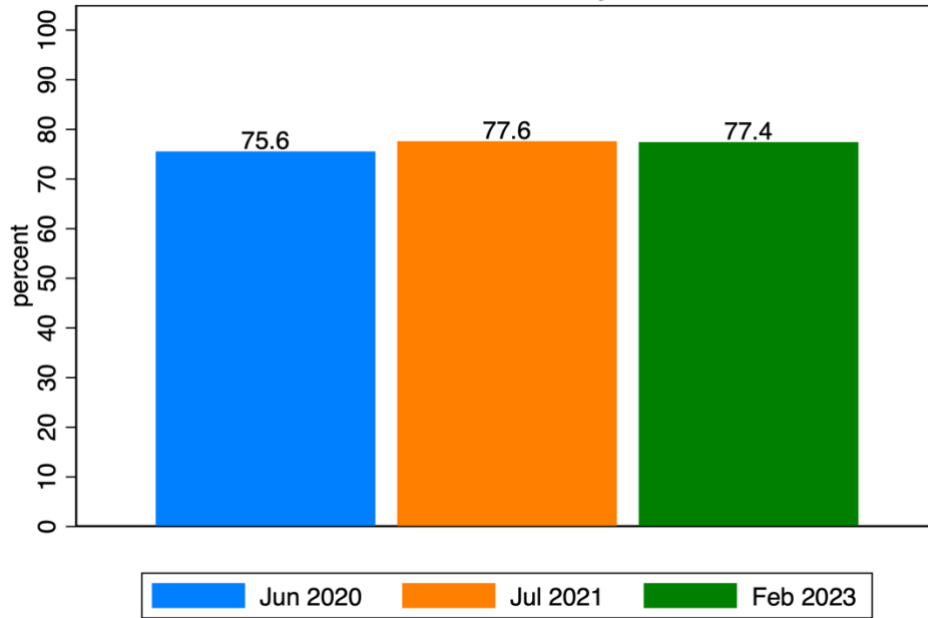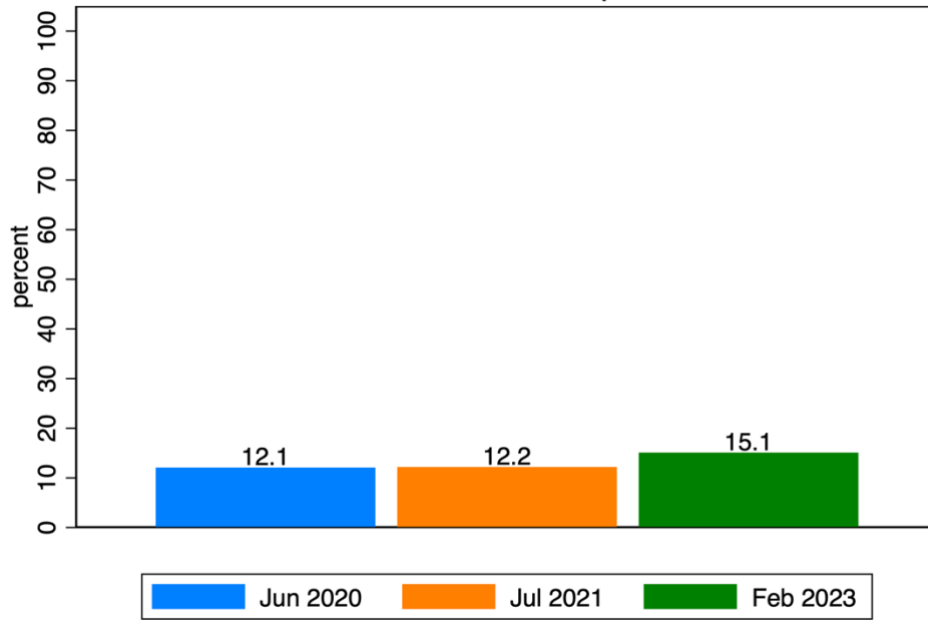
How Often: Limit Car Usage
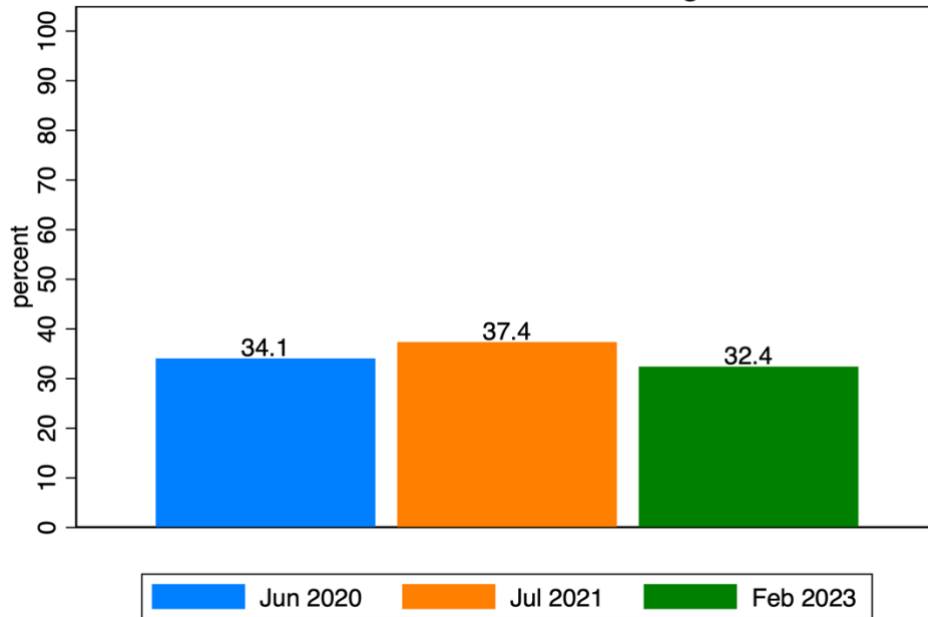
How Often: Limit Water Usage
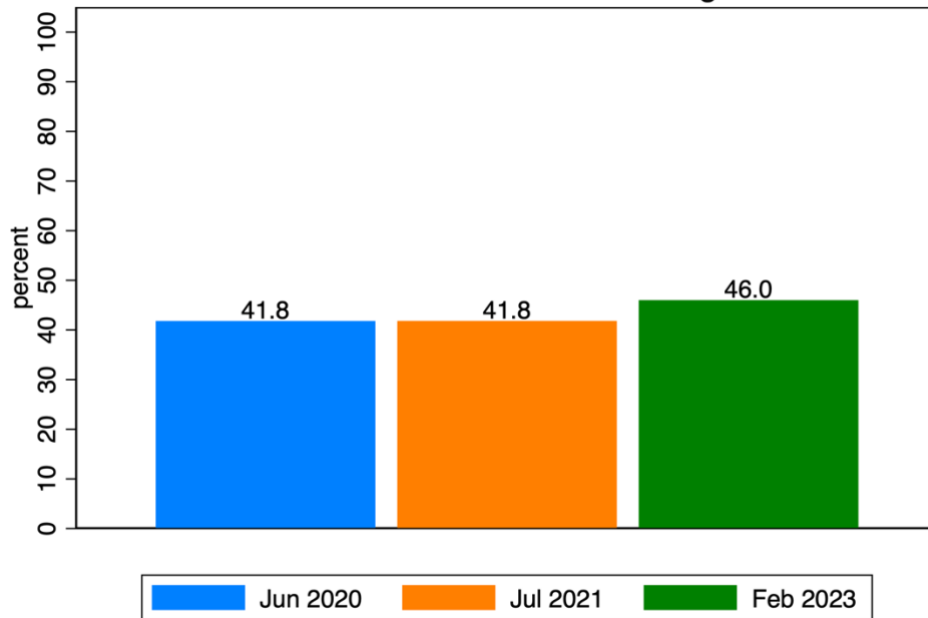
How Often: Limit Electricity Usage

Jun 2020	Jul 2021	Feb 2023
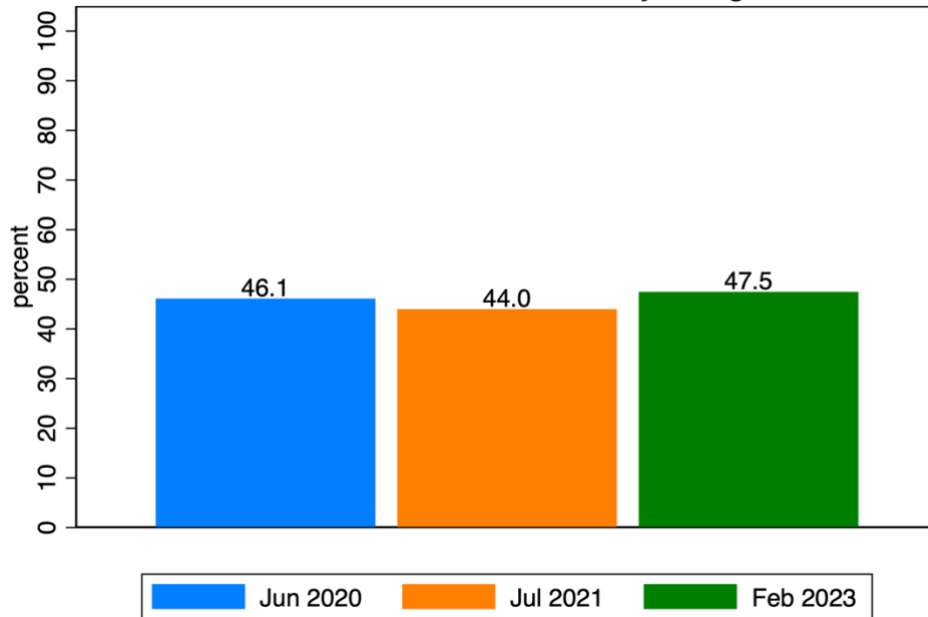
How Often: Limit Food Waste

Jun 2020	Jul 2021	Feb 2023
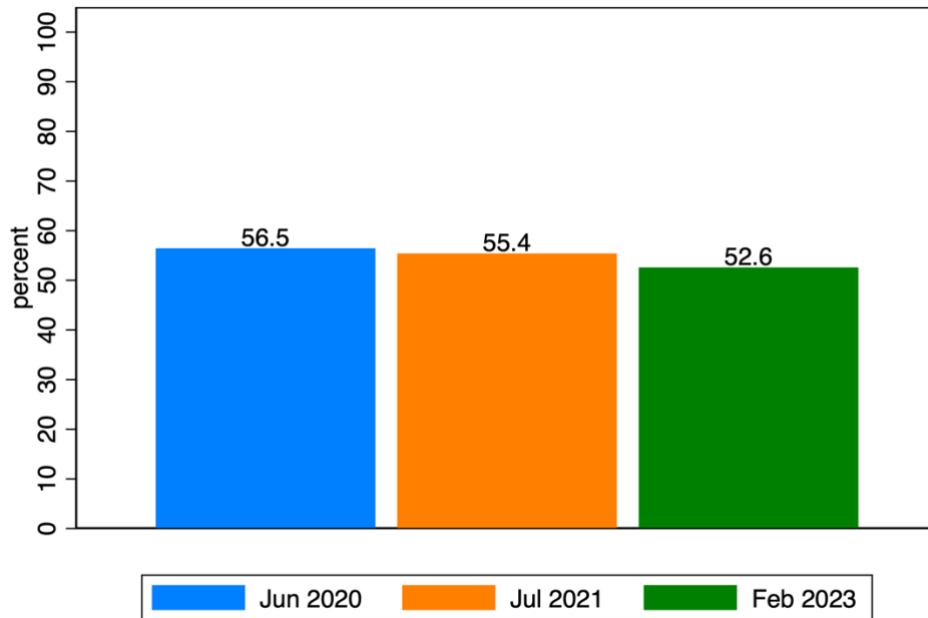
How Often: Limit/Eliminate Meat Consumption

27.2   27.9   28.5

Jun 2020   Jul 2021   Feb 2023
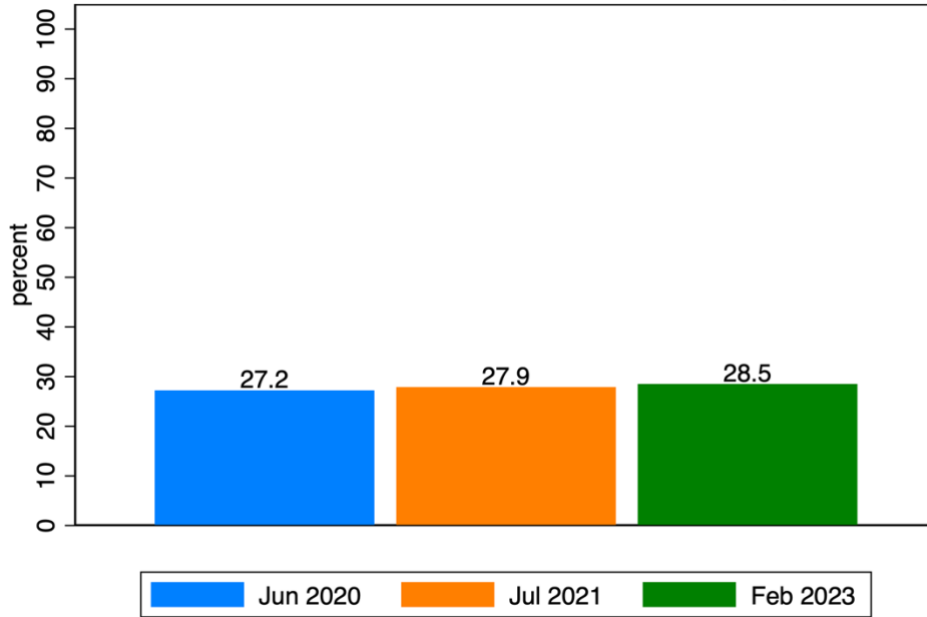
How Often: Buy/Eat Food Grown in SoCal

25.8   35.3   35.4

Jun 2020   Jul 2021   Feb 2023
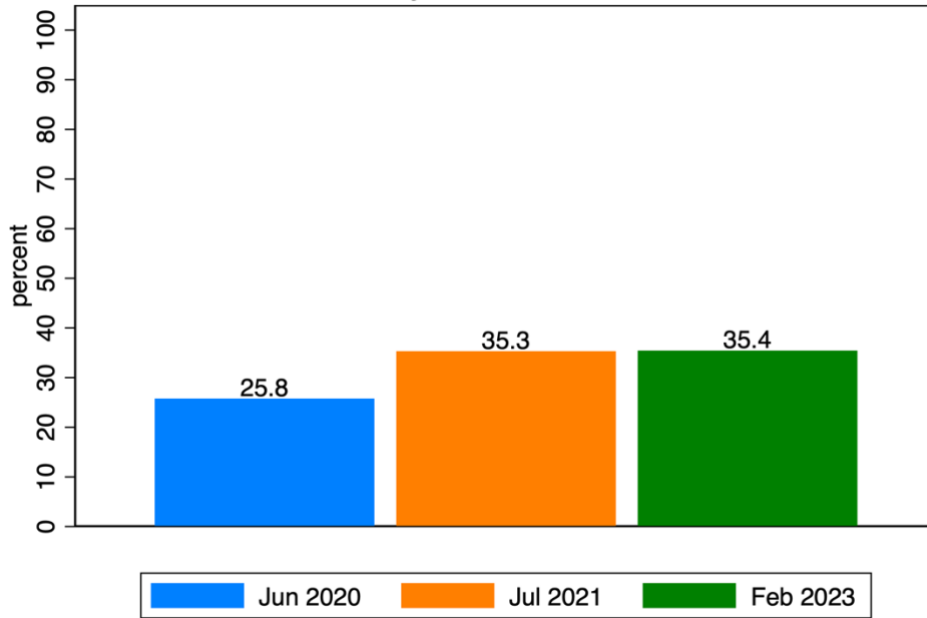
How Often: Buy/Eat Organic
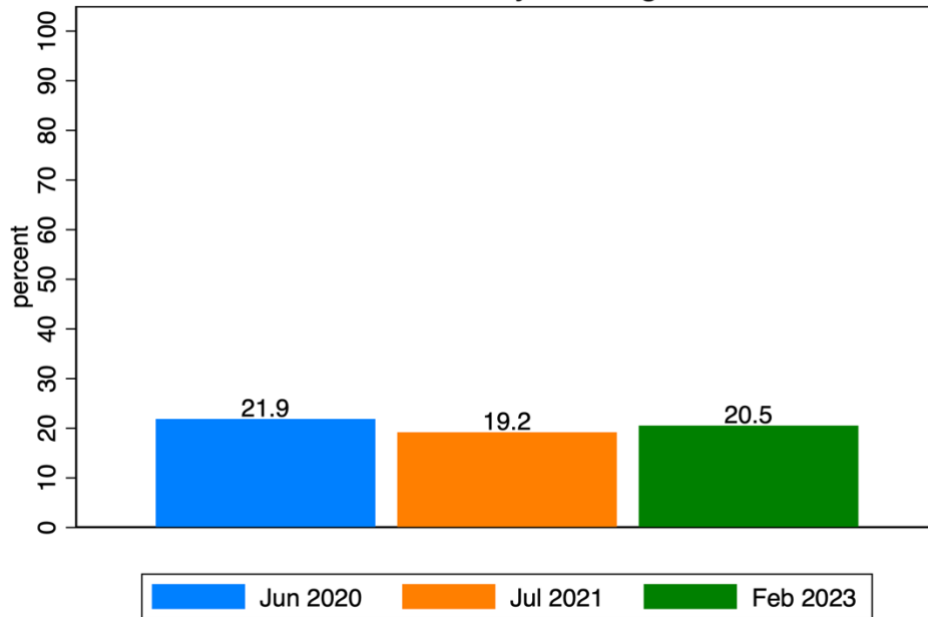
How Often: Buy/Eat Sustainably Sourced Food
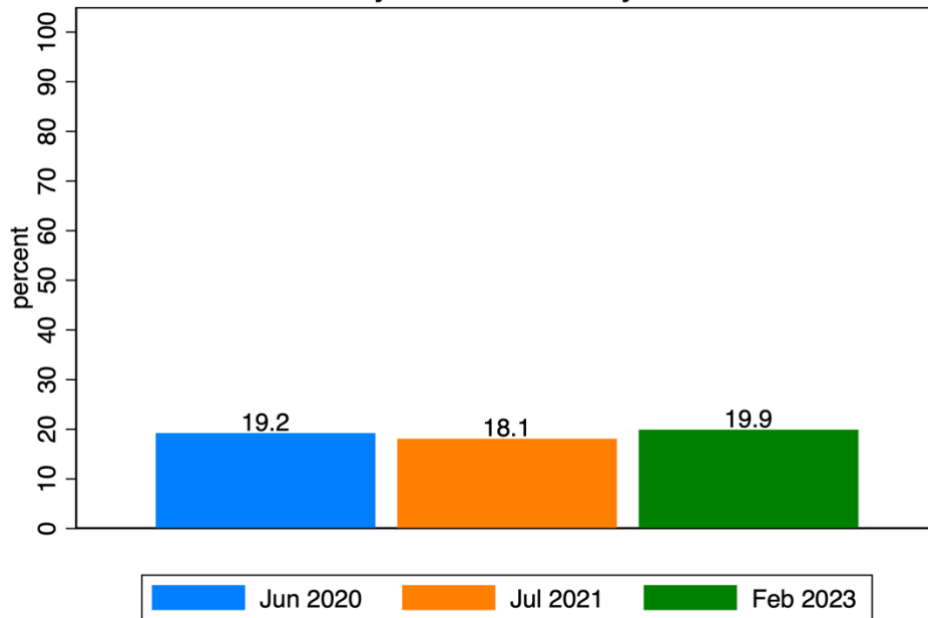
How Often: Buy/Eat Low/Unprocessed Food

| | Jun 2020 | Jul 2021 | Feb 2023 |
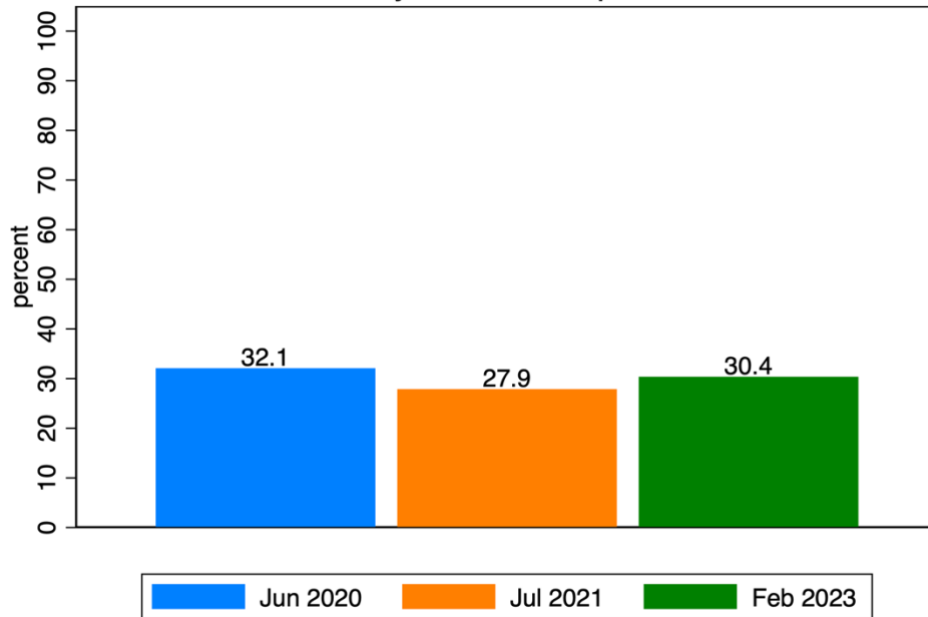
How Often: Limit Use of Food that Comes in Packaging

| | Jun 2020 | Jul 2021 | Feb 2023 |
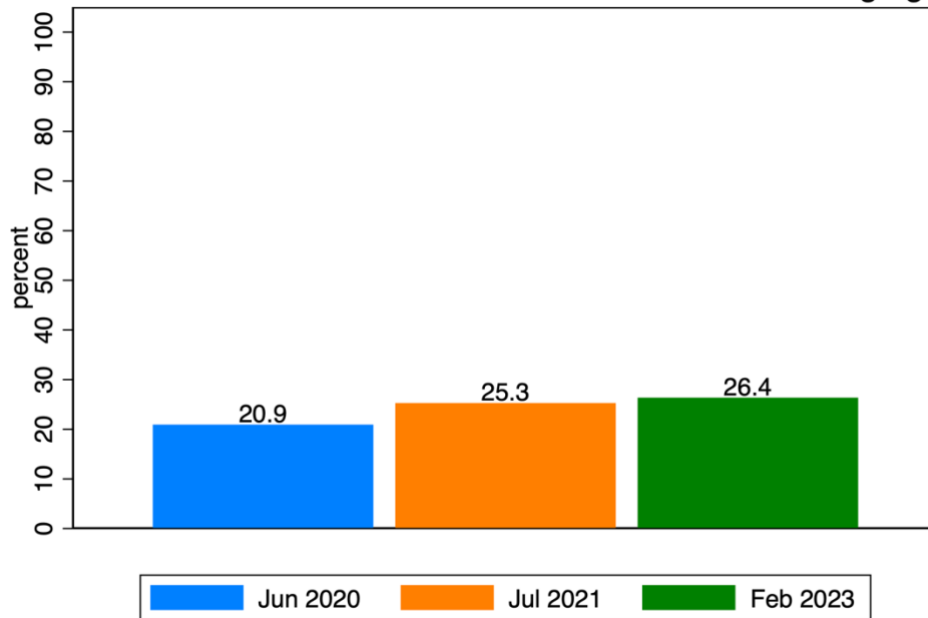
How Often: Limit Use of Plastic
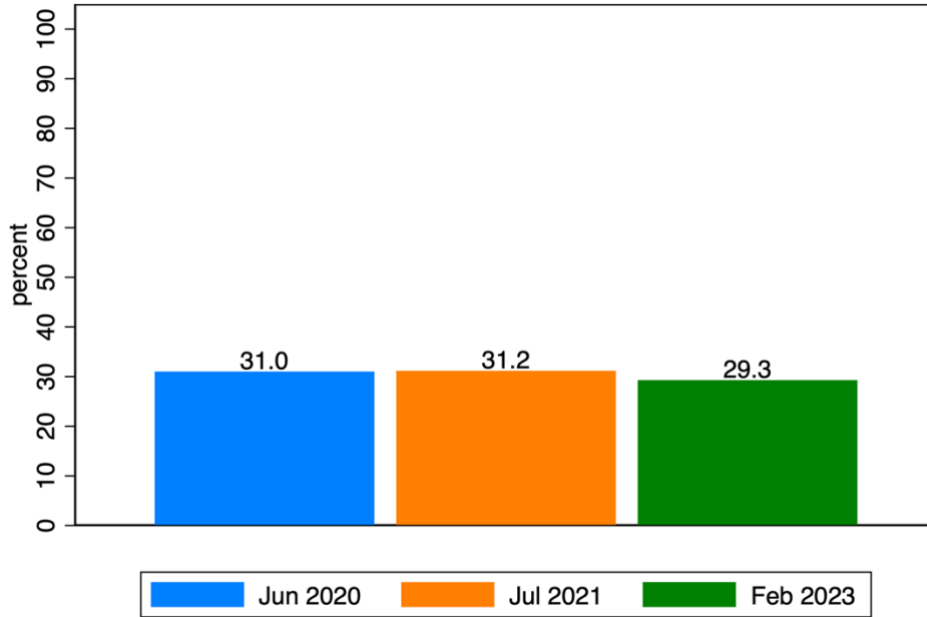
How Often: Hang Clothes to Dry
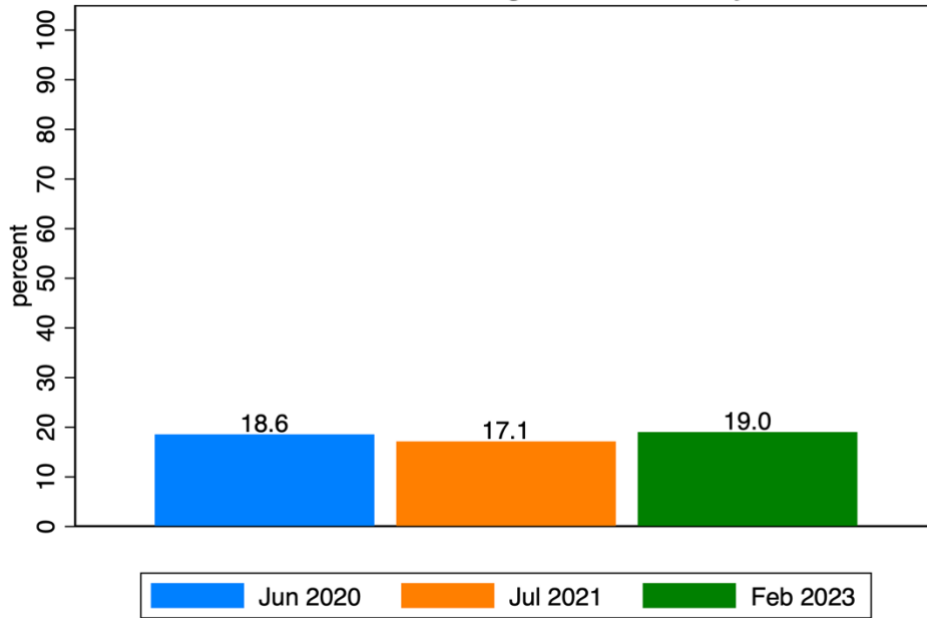
How Often: Limit Air Conditioning

34.6 29.3 33.9

percent

Jun 2020   Jul 2021   Feb 2023

Own/Lease Electric Car

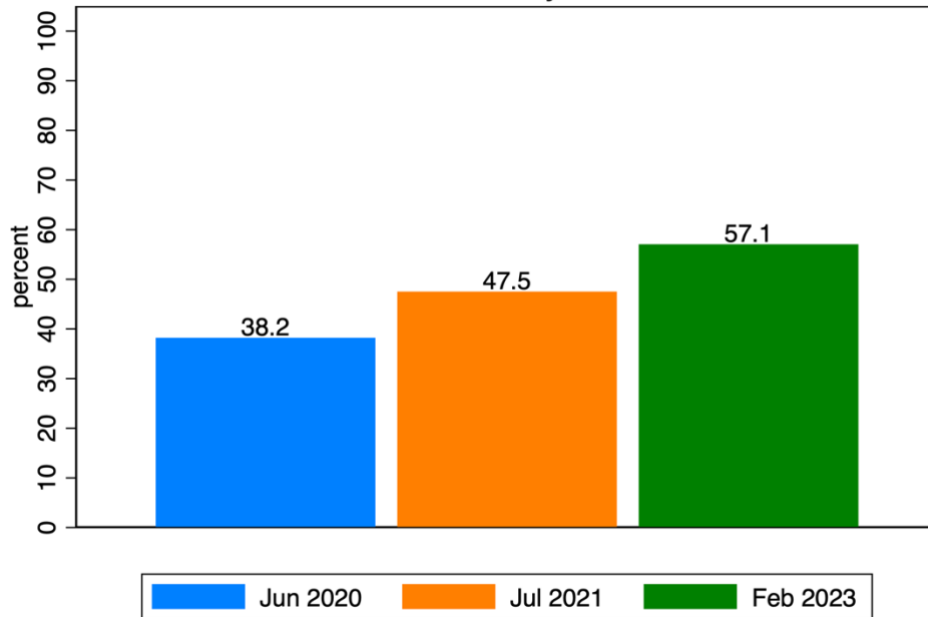1.9   2.3   4.2

percent

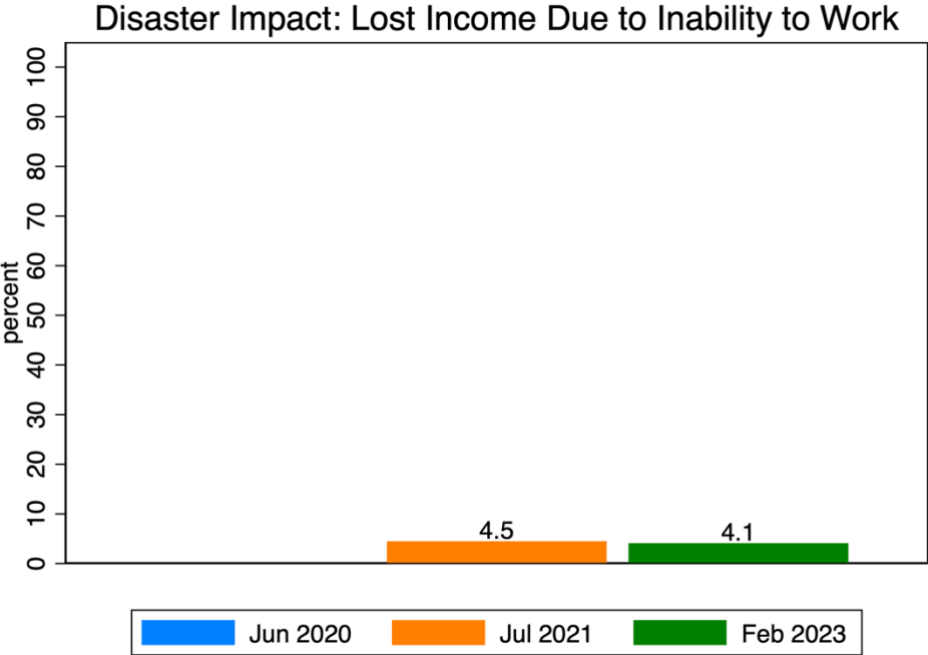Jun 2020   Jul 2021   Feb 2023
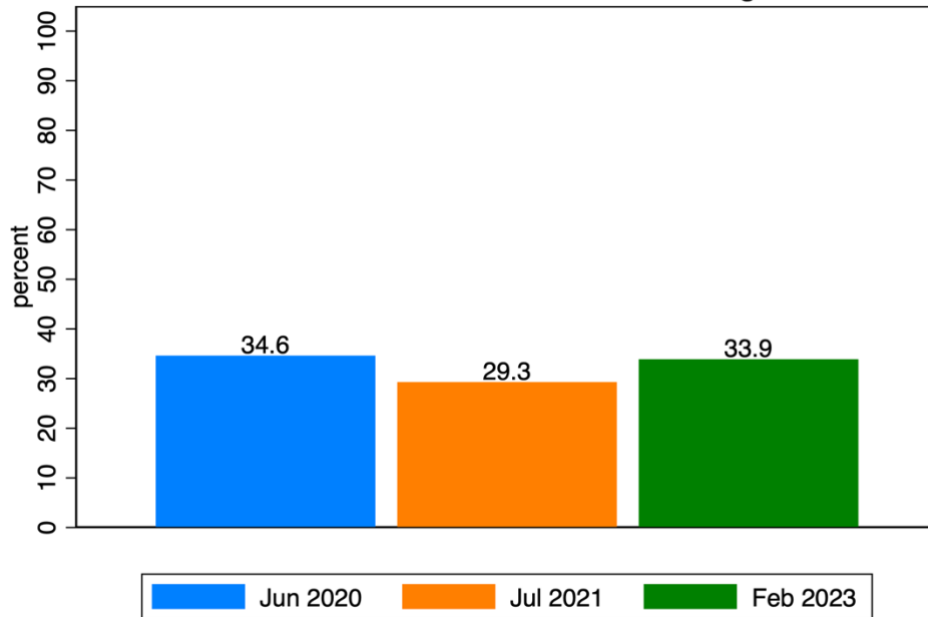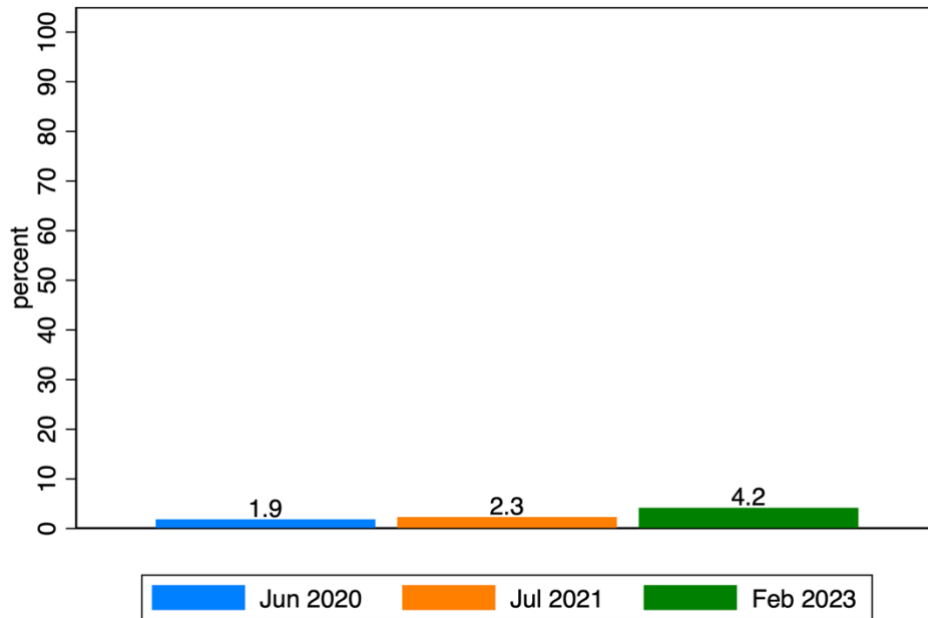
Own/Lease Hydrogen Car
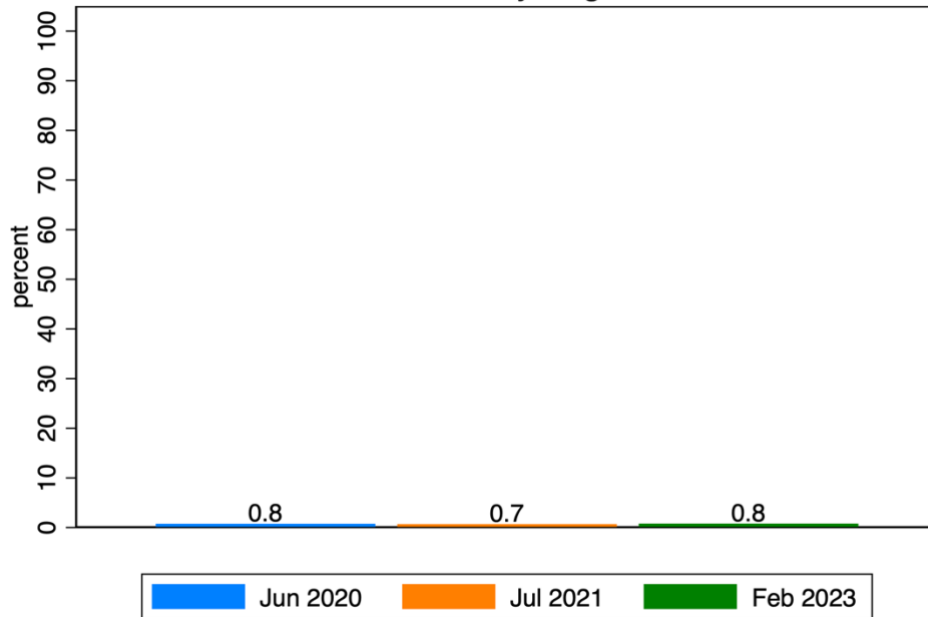
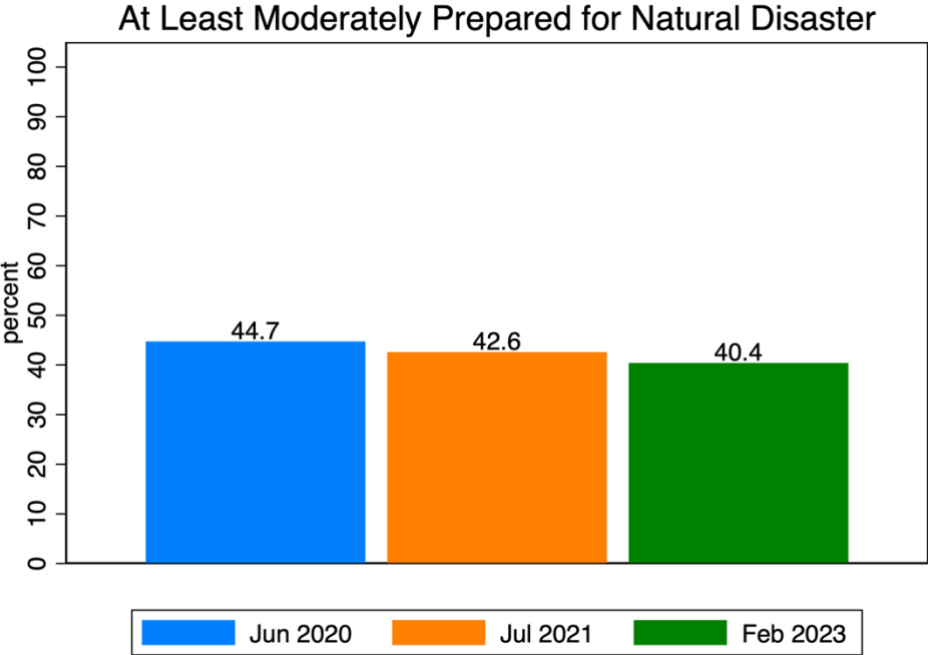## Own/Lease Hybrid Car
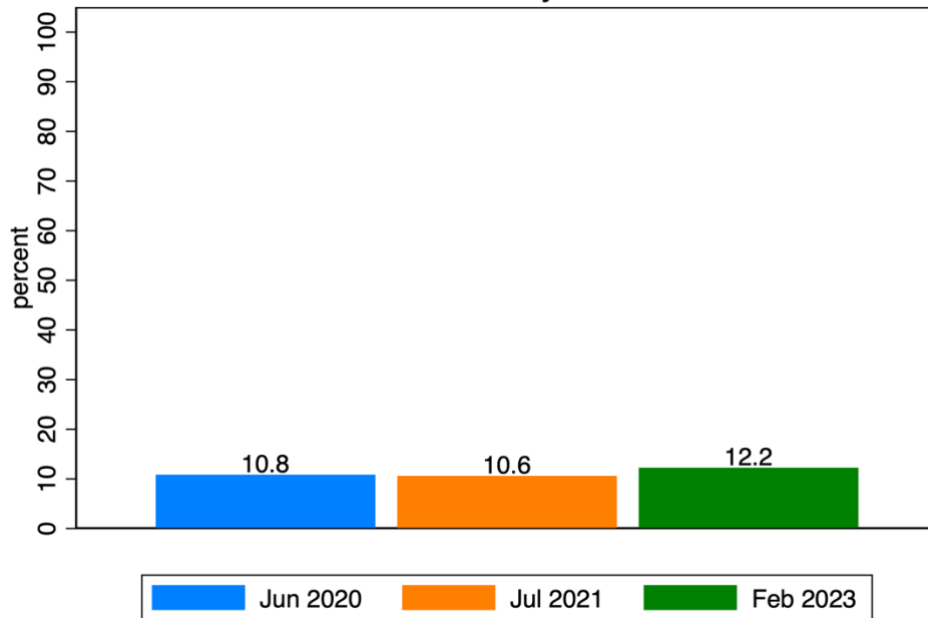
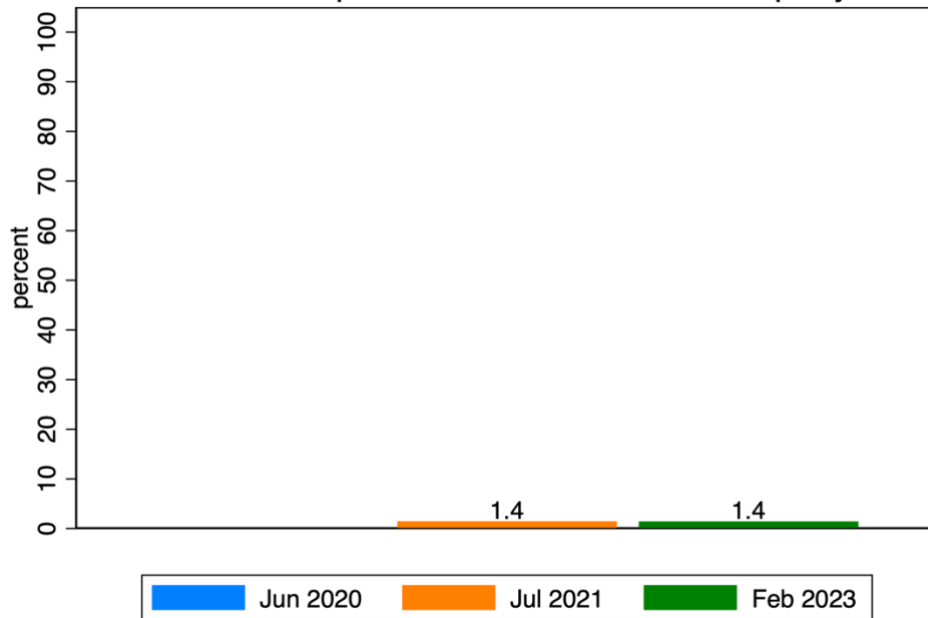Next Car Likely Electric

Natural Disasters

At Least Moderately Prepared for Natural Disaster

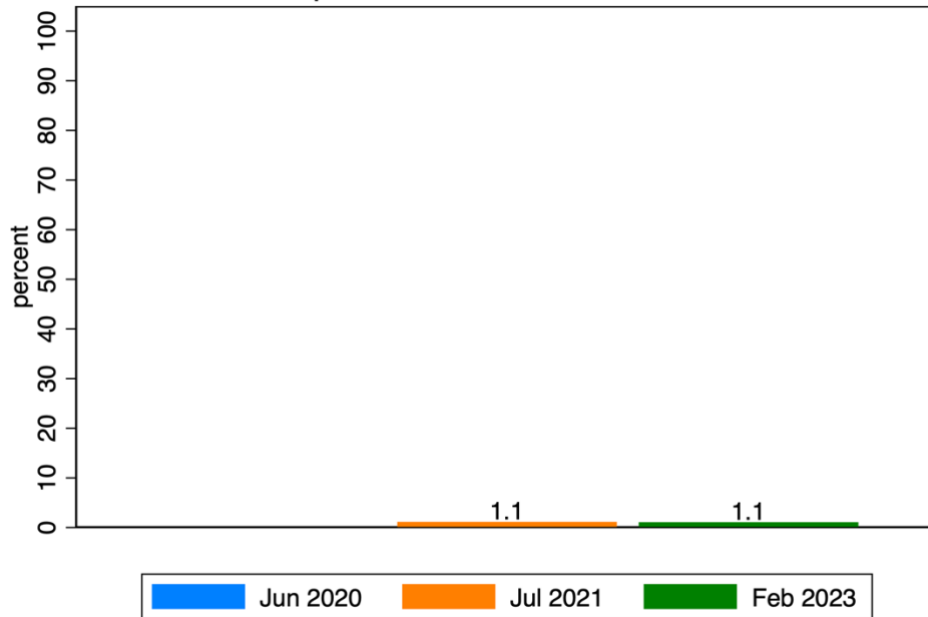## Disaster Impact: Lost Income Due to Inability to Work

Disaster Impact: Health Problems
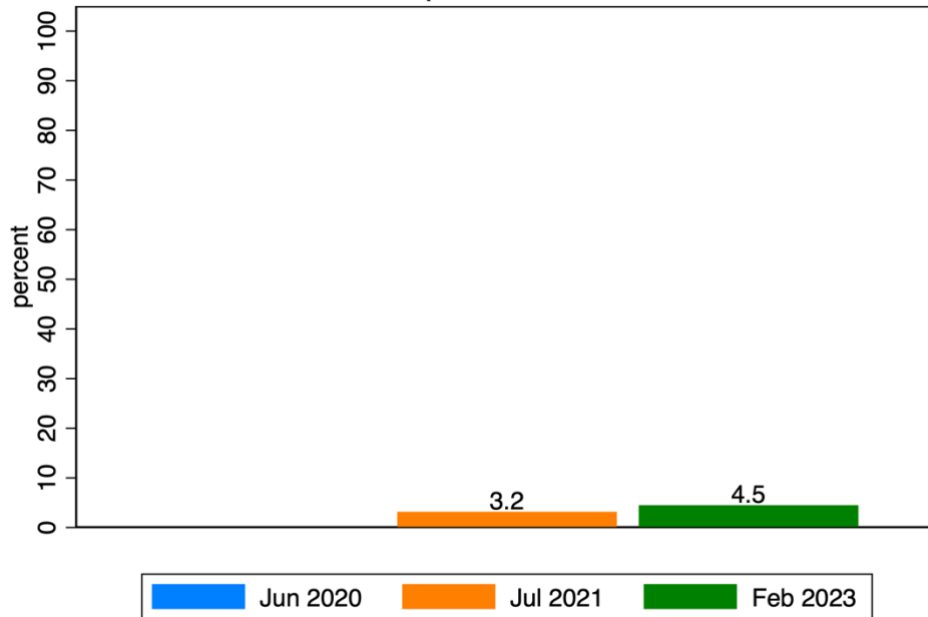
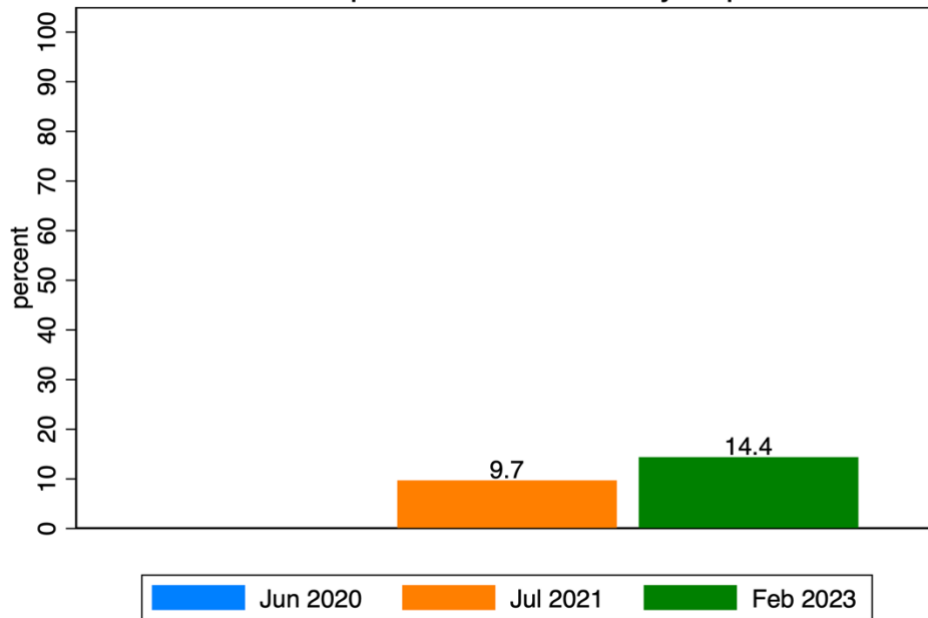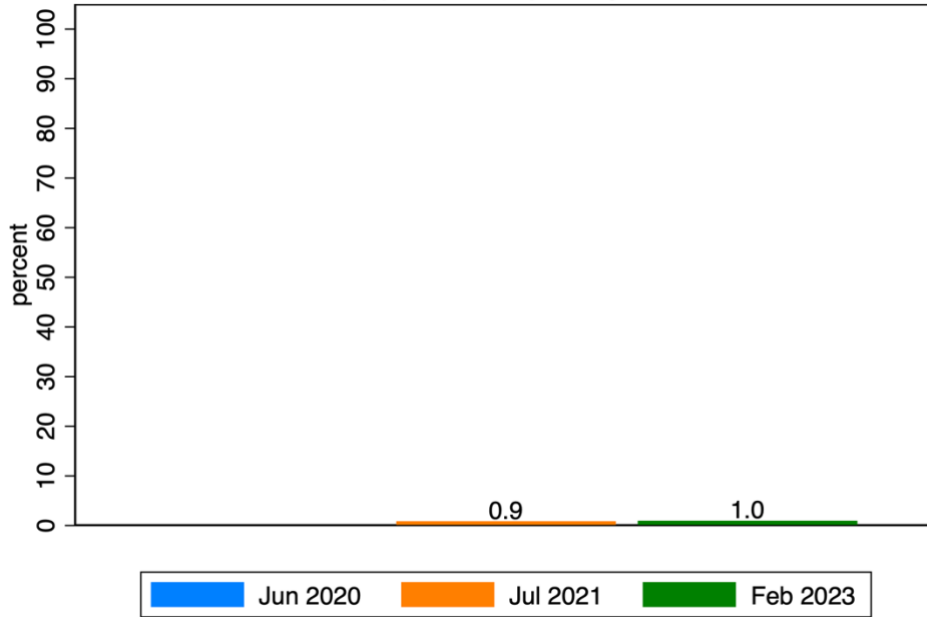Disaster Impact: Loss/Destruction of Property

Disaster Impact: Loss/Destruction of Posessions

Disaster Impact: Increased Utility Expenses

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Disaster Impact: Temporary Evacuation

Psychological Distress due to Natural Disaster