

THE COG COOPERATIVE FORECASTING PROGRAM AND THE DRAFT ROUND 10 COOPERATIVE FORECASTS

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Water Resources Technical Committee (WRTC)
March 10, 2023



Previous Rounds of Cooperative Forecasts

Round 1 – 1976

Round 2 – 1979

Round 3 – 1983

Round 3.5 – 1985

Round IV – 1987

Round IV-1 – 1991

Round V – January 1994

Round 5.1 – May 1994

Round 5.2 – 1995

Round 5.3 – 1996

Round 5.4 – 1997

Round 6a – 1998

Round 6.1 – 1999

Round 6.2 – 2000

Round 6.3 – 2003

Round 6.4A - 2004

Round 7.0 – 2005

Round 7.0a – 2006

Round 7.1 – 2008

Round 7.2 – July 2009

Round 7.2A – October 2009

Round 8.0 - 2010

Round 8.0a – 2011

Round 8.1 – 2012

Round 8.2 – 2013

Round 8.3 – 2014

Round 8.4 – 2015

Round 9.0 – 2016

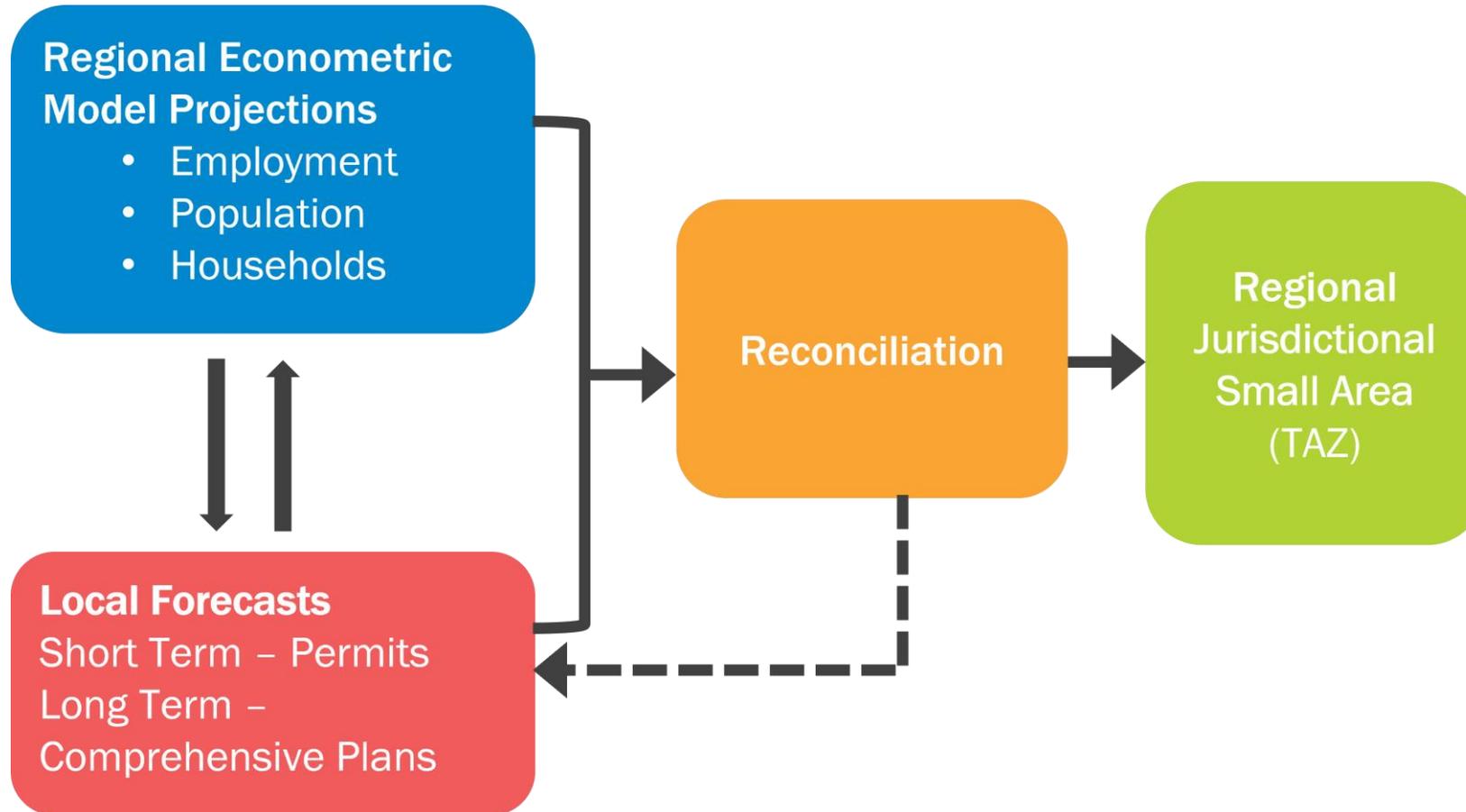
Round 9.1 – 2018

Round 9.1a – 2019

Round 9.2 – 2021

Round 10.0 – 2023 (planned)

COG Cooperative Forecasting Process



Planning for Round 10.0

Major Elements of New “Round” of Cooperative Forecasts:

- Review existing economic conditions
- Distribute base year TAZ databases to member jurisdictions
- Develop “Benchmark” Regional Economic Forecast to new horizon year (2050)
- Reconcile jurisdictional projections with Regional Economic Model Forecast
- Compile local government 2020 to 2050 TAZ forecasts

Round 10.0 Work Plan

Confirm key Round 10 planning assumptions and develop workplan & schedule	<ul style="list-style-type: none">• Examine current economic trends• New Base Year (2020)• Planning Horizon Year of forecasts (2050)• TAZ system (COG 3722)• Land Use Employment Categories (Industrial Retail, Office, and Other)
COVID-19 impacts to future growth	<ul style="list-style-type: none">• Examine pre- and post-pandemic trends relating to teleworking and possible impact on future office space needs• Explore office conversions to residential trends• Impact of pandemic on outmigration on the Washington region
Commercial space utilization assumptions (square feet per worker)	<ul style="list-style-type: none">• Review current Sq. Ft. assumptions and make any recommendation for updating or revising.• Include other miscellaneous land uses such data centers or hotels
Demographic assumptions	<ul style="list-style-type: none">• Future Average Household Size Assumptions for Local Government Analysis



Round 10.0 Work Plan, continued

<p>Benchmarking to Year 2020</p>	<ul style="list-style-type: none"> • Develop 2020 Census Base Year by Census Blocks into COG Transportation Analysis Zones (TAZ) • Develop 2020 Employment Base Year by TAZ
<p>New Econometric Model</p>	<ul style="list-style-type: none"> • Develop Round 10 Econometric Model • Develop a range of 'regional' economic forecasts (Low, Intermediate, High)
<p>Local Forecasting Procedures</p>	<ul style="list-style-type: none"> • Provide a presentation to the Cooperative Forecasting committee about your own forecasting procedures and methodology. • Submit initial Round 10 Jurisdictional Totals / Benchmark Totals • Submit Round 10 TAZ Level data
<p>COG Forecasting Procedures</p>	<ul style="list-style-type: none"> • Acquire Forecasts for Non-COG/TPB Jurisdictions • Coordinate with FAMPO and BMC about receiving latest forecasts data. • Coordinate with Clarke, Fauquier, Calvert, St. Mary's, and Jefferson counties



Round 10 Cooperative Forecast Technical Assistance



 RENAISSANCE PLANNING

Consultant Team

- Walker Freer, ICF
- Dan Hardy, Renaissance Planning Group

Round 10 ICF Tasks

- Estimated changes to commercial space use
- Assessed potential changes to future housing in the region
- Developed a “range” of regional economic model forecasts
- Projecting changes to future average household size

Return to Office + Impact on Central Business Districts

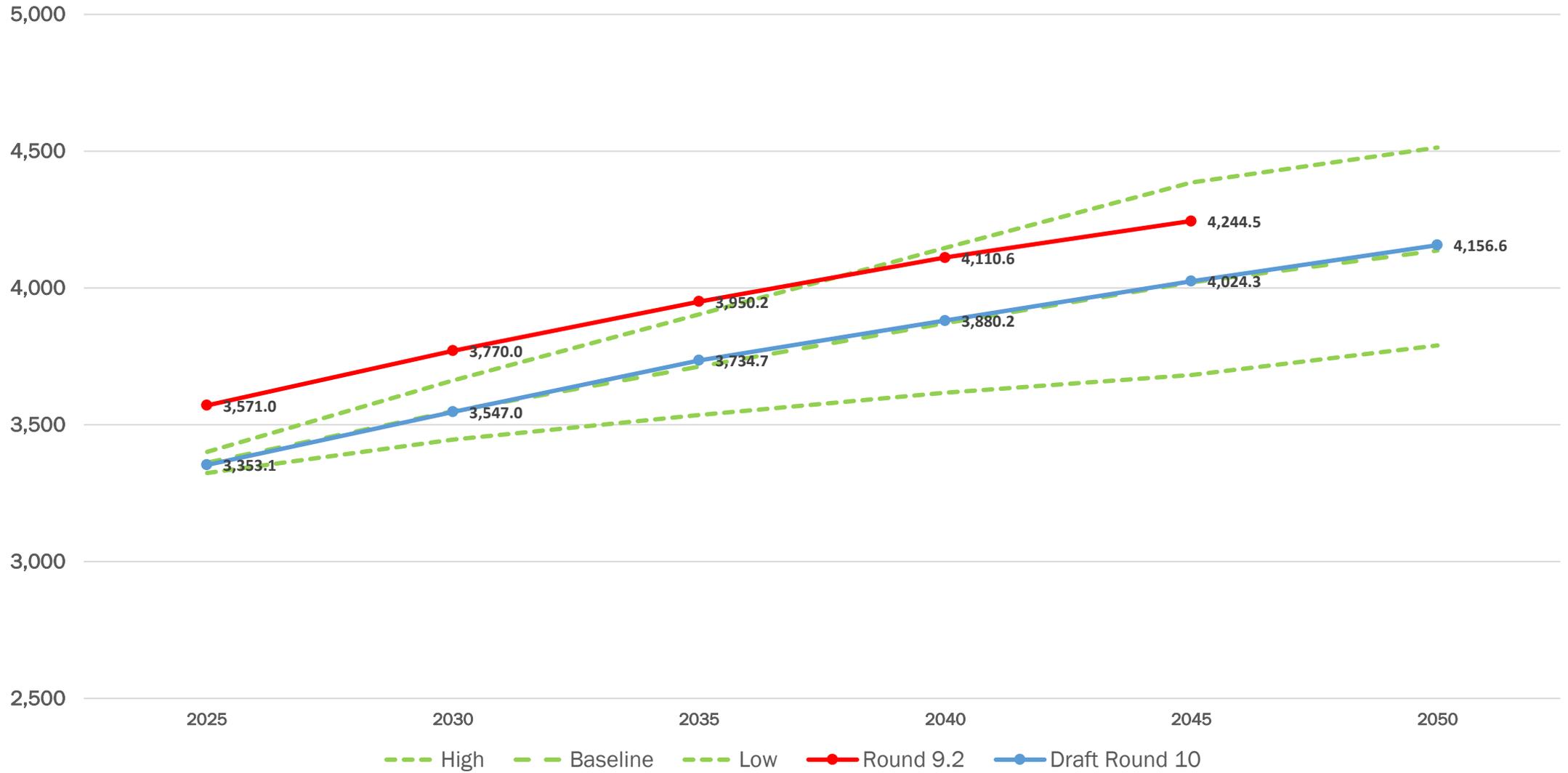
Source: ICF

- As of April 2022, average daily Metrorail boardings were 36% of pre-pandemic levels
- As of March 2022, regional traffic levels returned to 91% of 2019 levels
- Weekly office activity in the Washington region has only returned to 37% of pre-pandemic levels
- Office vacancy rates in downtown D.C. increased by 56% (from 11.1% to 17.5%) from 2019 to 2022; in February 2022, the DowntownDC BID reported 9.7M square feet of vacant office space
- Significant potential for office-to-residential conversions (2.3M SF being targeted as of 2021)

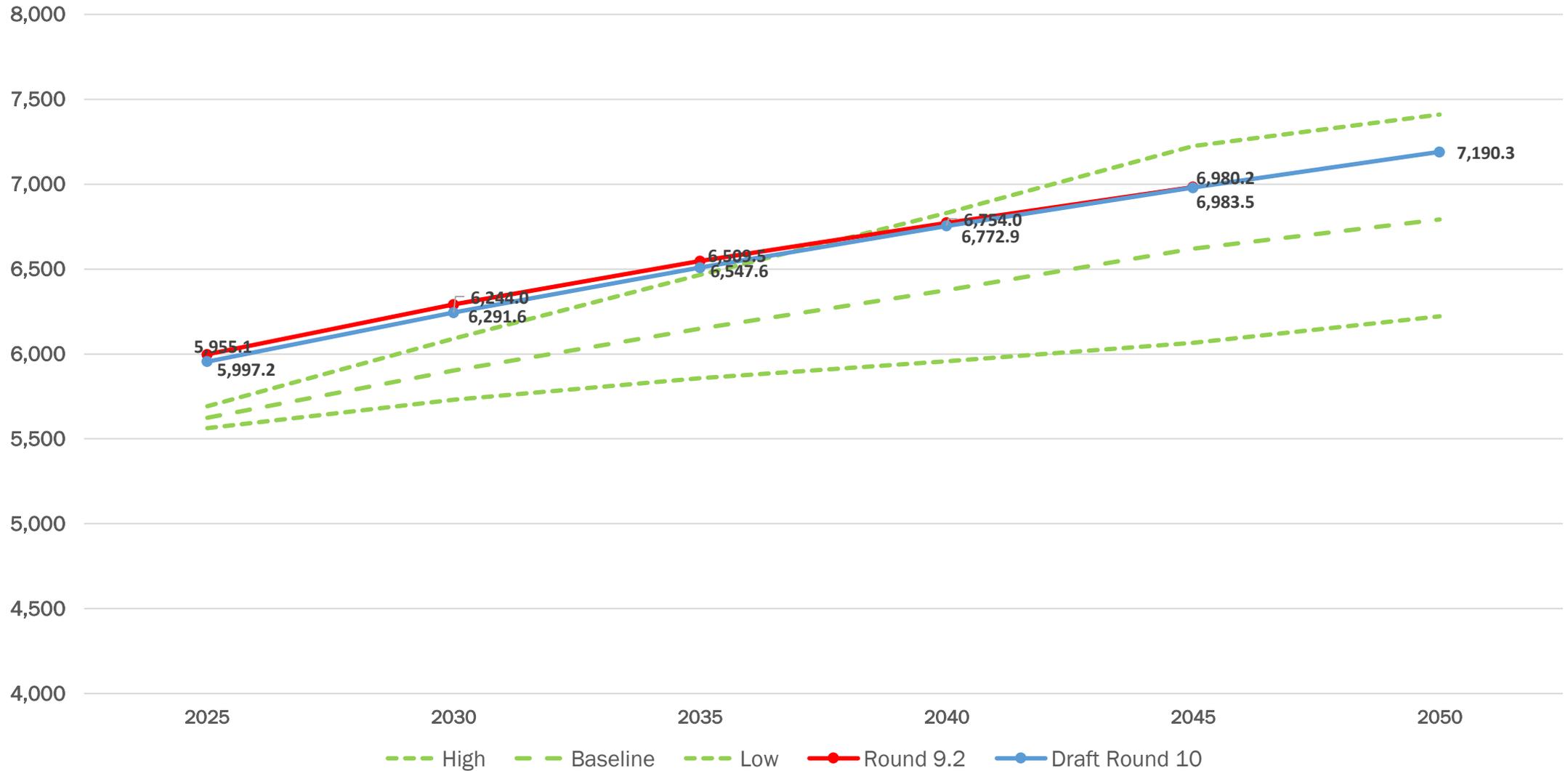
Weekday office activity %
(compared to 2019)

	May 25	June 1	% Change
Chicago metro	40.0%	37.2%	2.7% ▼
Austin metro	58.5%	56.1%	2.4% ▼
Houston metro	56.0%	53.8%	2.1% ▼
San Francisco metro	33.6%	31.6%	2.0% ▼
Washington D.C. metro	39.1%	37.3%	1.8% ▼
San Jose metro	33.9%	32.1%	1.8% ▼
Average of 10	42.9%	41.2%	1.7% ▼
Philadelphia metro	38.1%	36.7%	1.4% ▼
New York metro	38.0%	36.6%	1.4% ▼
Dallas metro	51.3%	50.2%	1.1% ▼
Los Angeles metro	41.0%	40.5%	0.5% ▼

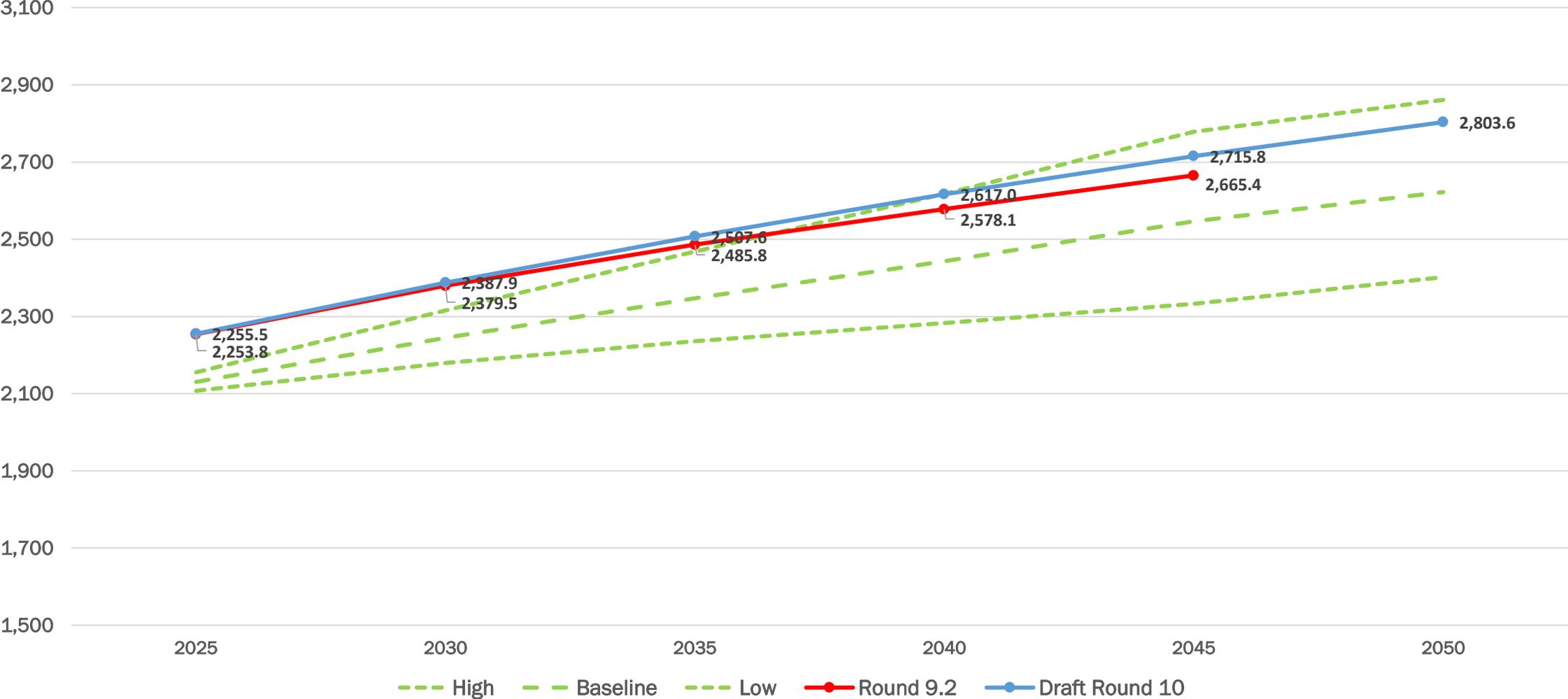
ICF Estimate of Regional Employment Change due to COVID (000s)



ICF Estimate of Regional Population Change due to COVID (000s)



ICF Estimate of Regional Households Change due to COVID (000s)



Summary of Revised Draft Round 10 Jurisdictional Forecasts

COG / TPB Planning Area (Thousands)

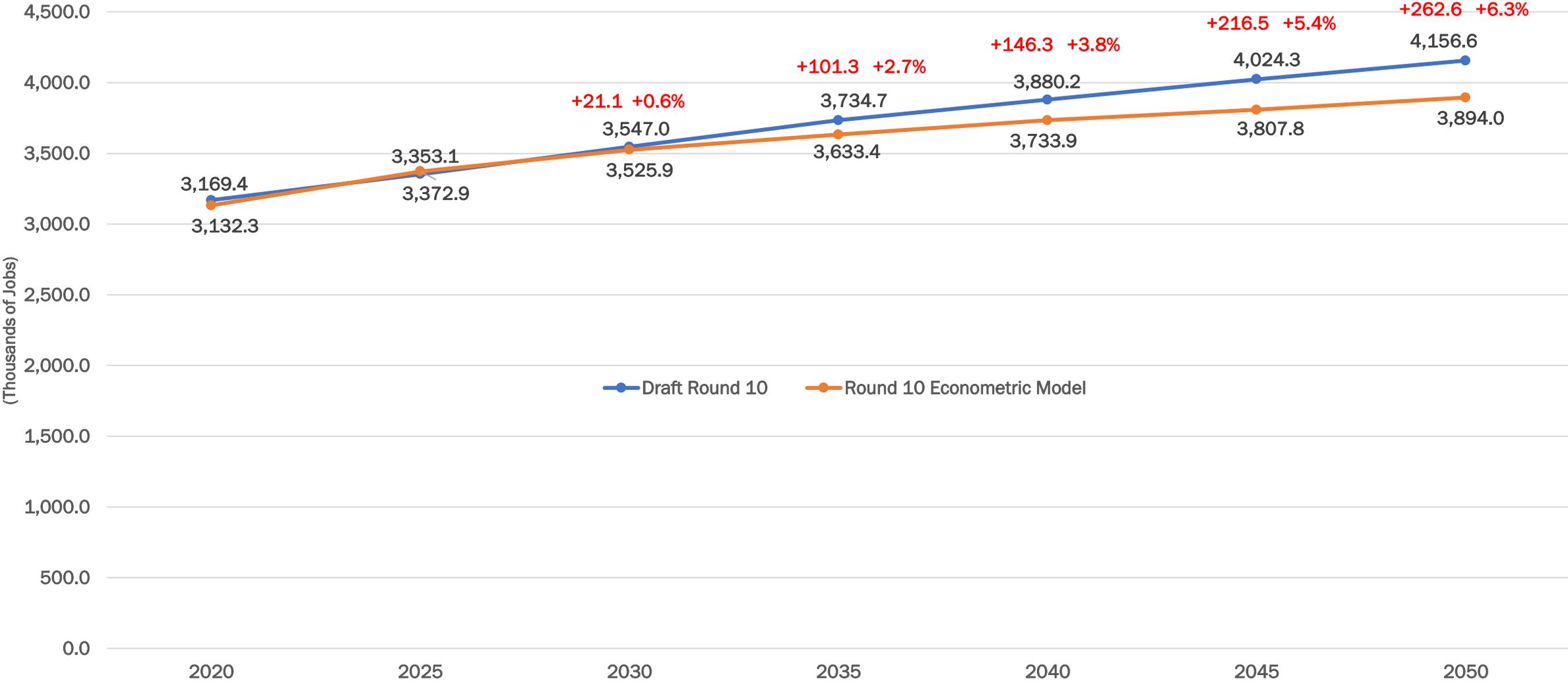
	<u>2020</u>	<u>2050</u>	2020 to 2050	
			<u>Number</u>	<u>Percent</u>
Employment	3,169.4	4,156.6	987.2	31.1%
Population	5,729.8	7,190.3	1,460.5	25.5%
Households	2,129.0	2,803.6	674.7	31.7%

Revised Draft Forecasts: Change from Prior Round

COG / TPB Planning Area (Thousands)

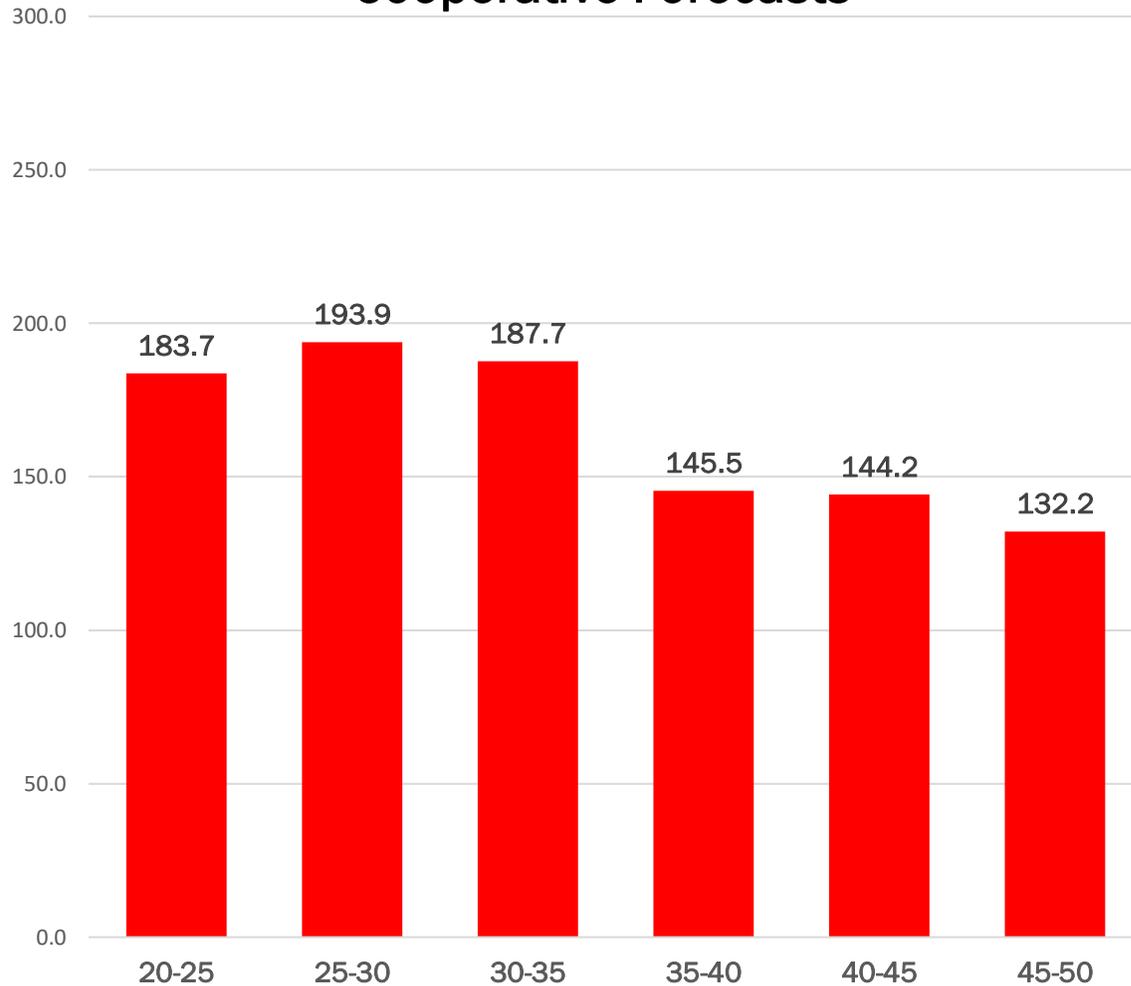
	<u>2020</u>	<u>2025</u>	<u>2030</u>	<u>2035</u>	<u>2040</u>	<u>2045</u>	<u>2050</u>
Employment	-194.6	-217.9	-223.0	-215.5	-230.4	-220.1	n/a
Population	30.0	-42.1	-47.6	-38.2	-19.0	-3.3	n/a
Households	-0.8	1.7	8.4	21.9	38.9	50.4	n/a

Revised Round 10 Employment Cooperative Forecasts and Round 10 Econometric Model

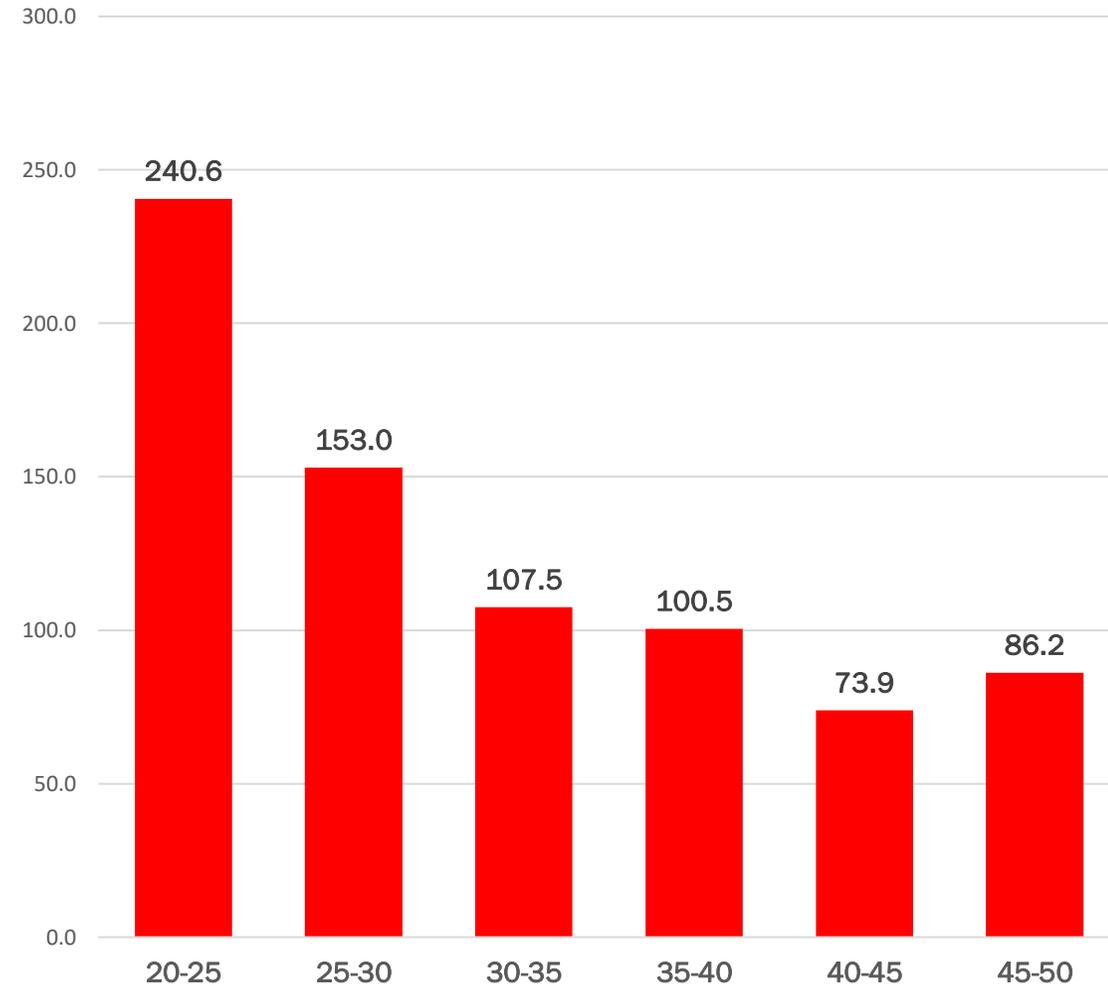


Revised Employment Growth By 5-Year Interval: Draft Round 10 vs. Econometric Model

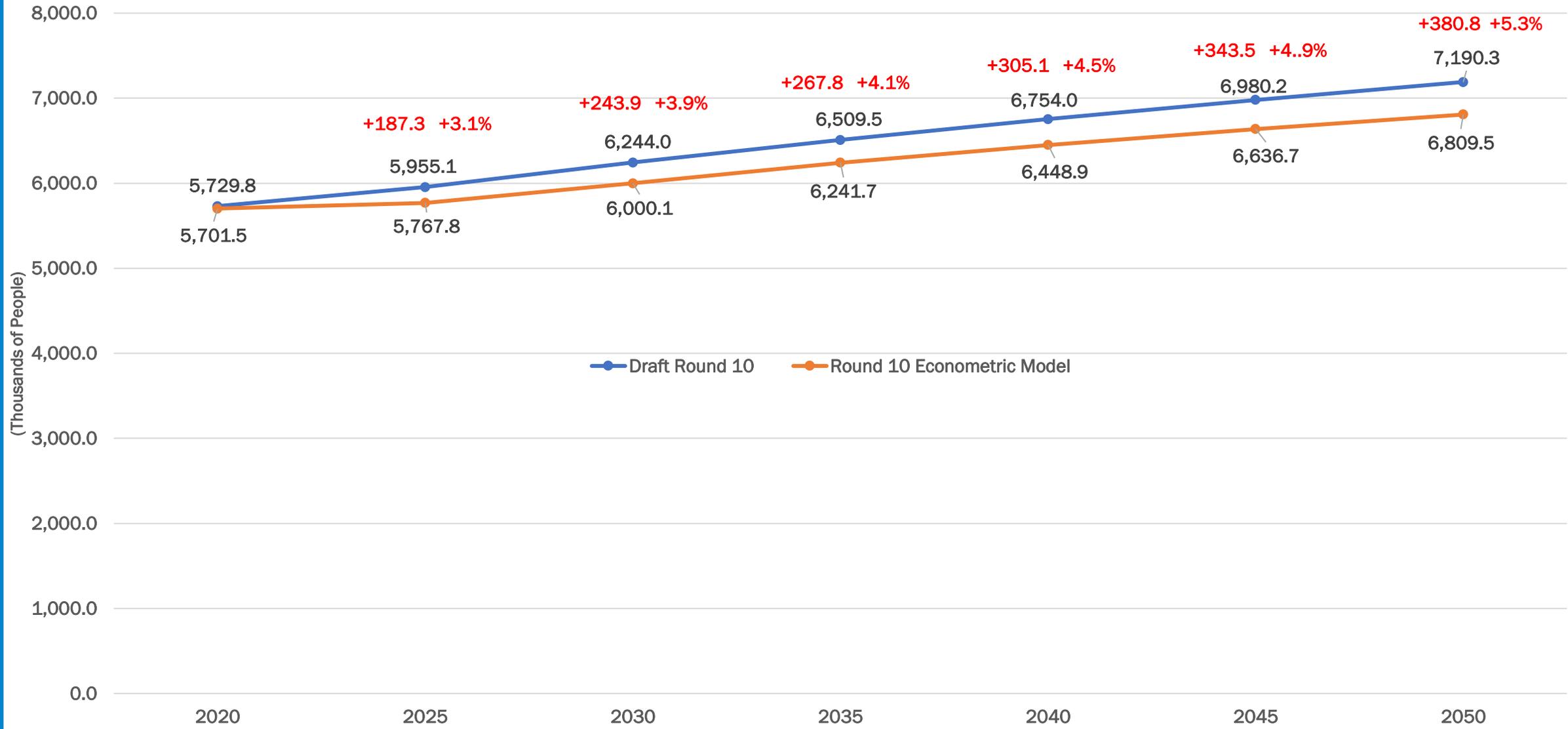
Revised Draft Round 10 Cooperative Forecasts



Econometric Model

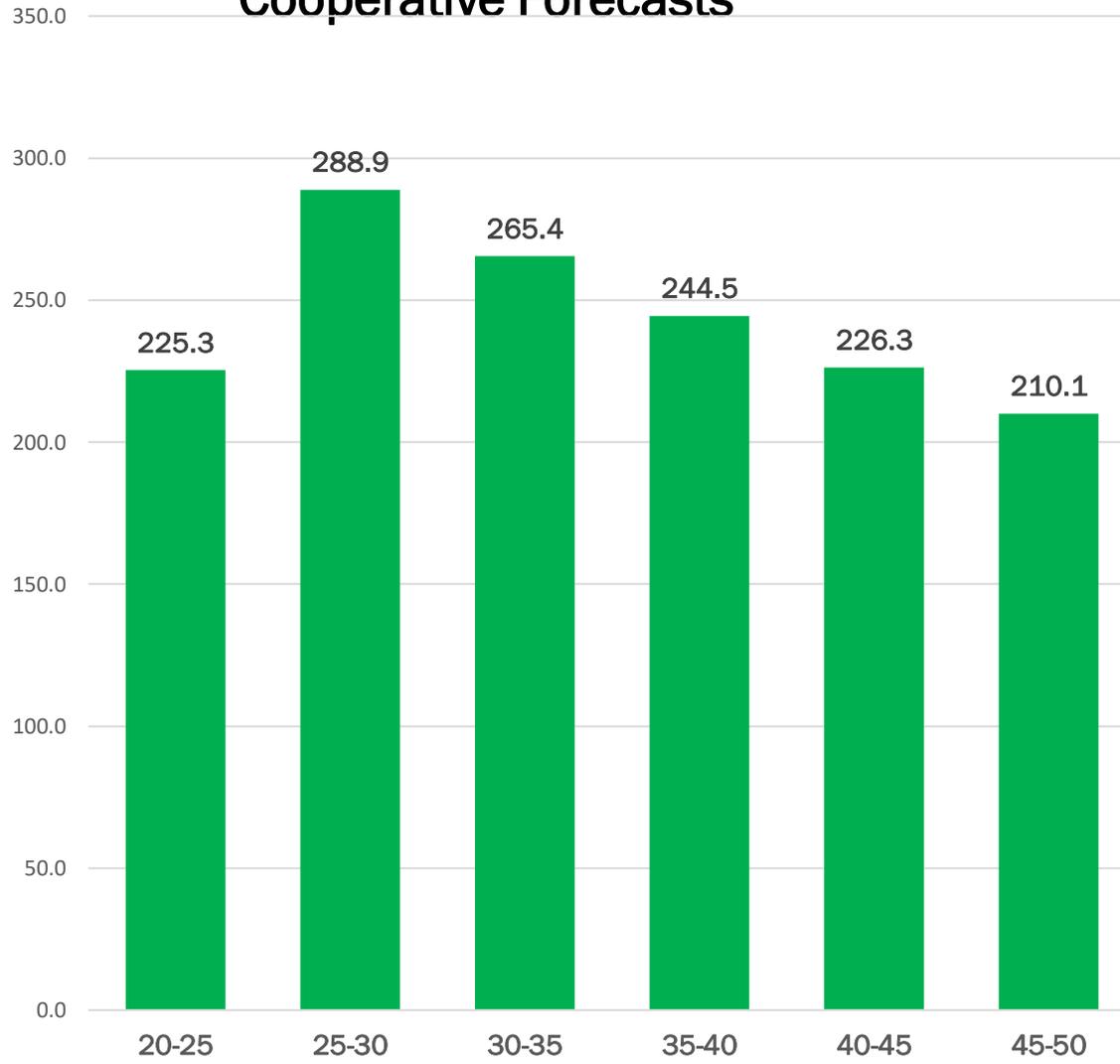


Revised Round 10 Population Cooperative Forecasts and Round 10 Econometric Model

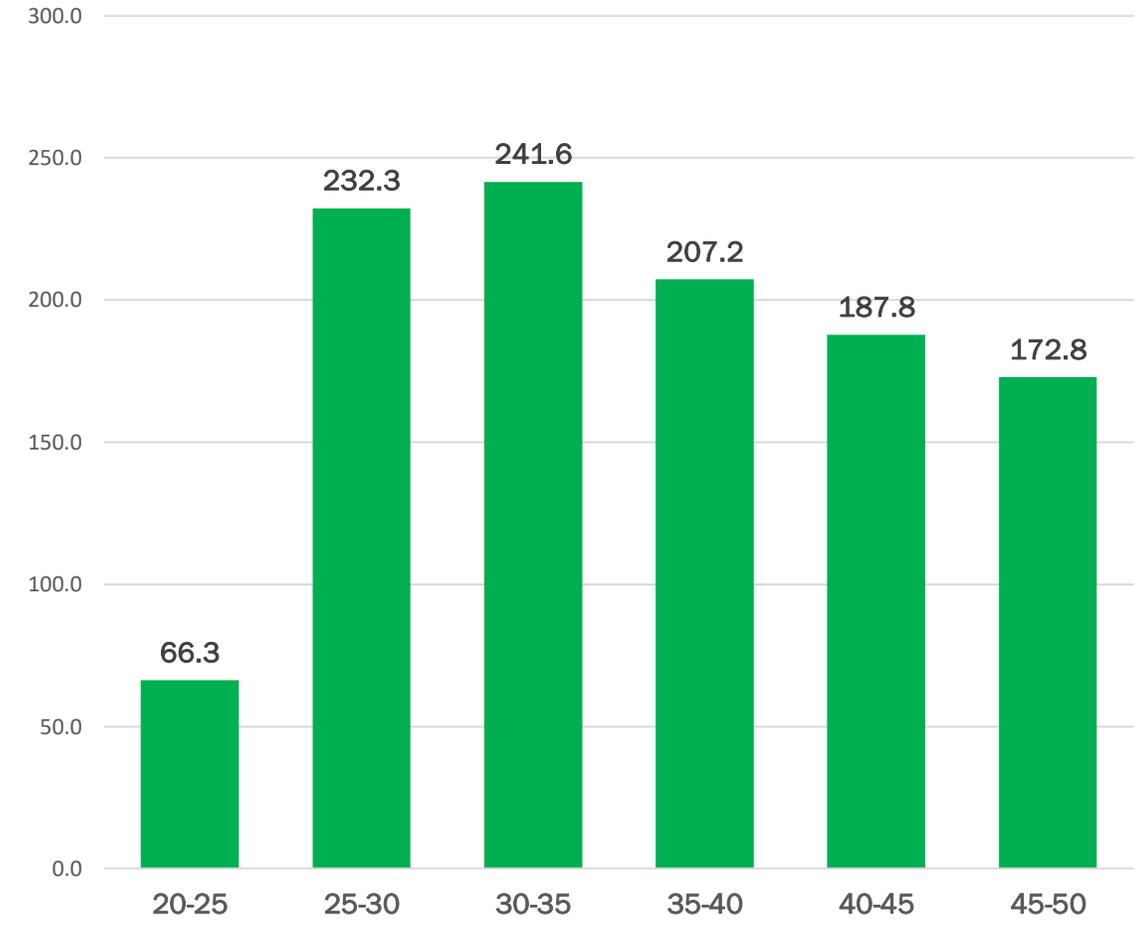


Revised Population Growth By 5-Year Interval: Draft Round 10 vs. Econometric Model

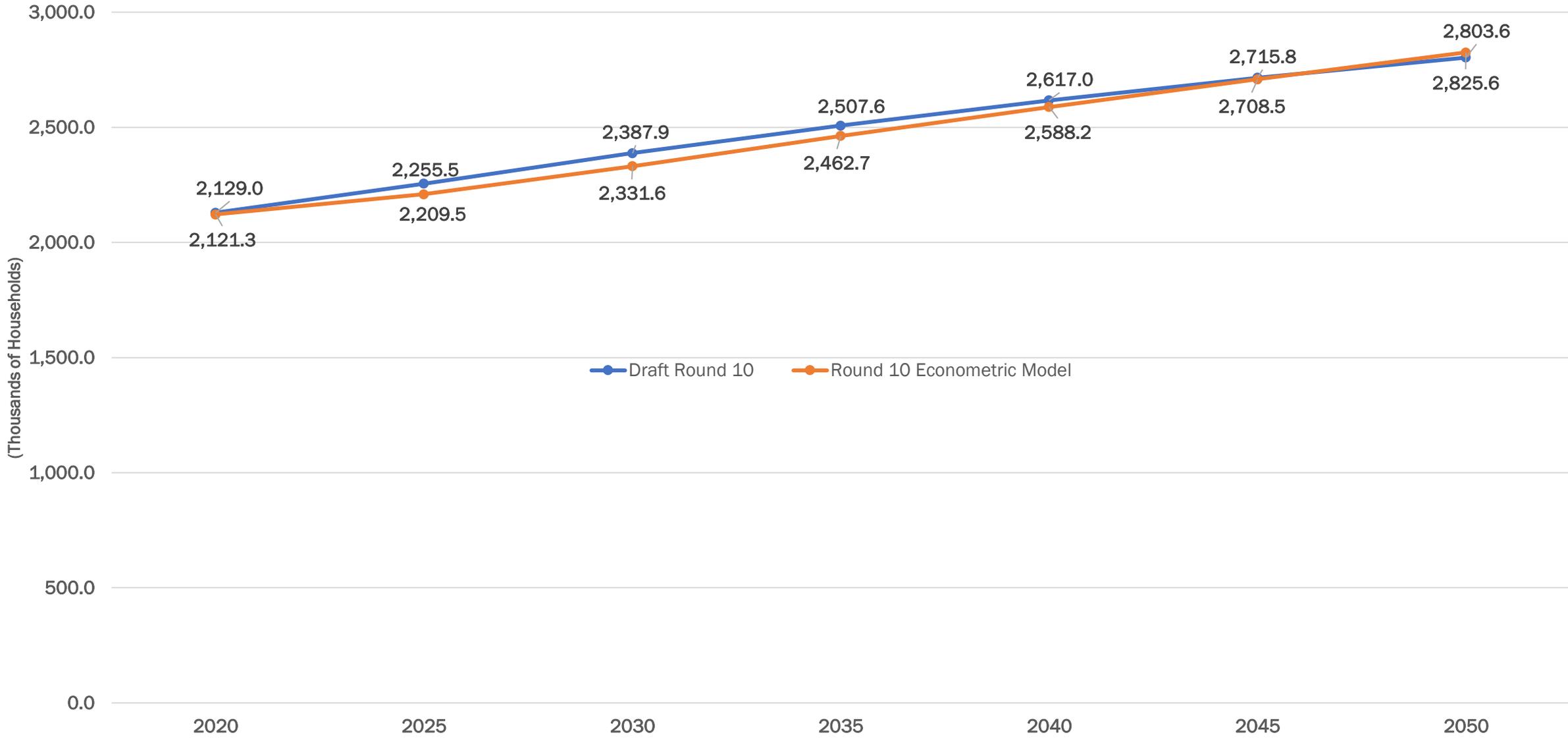
Revised Draft Round 10 Cooperative Forecasts



Econometric Model



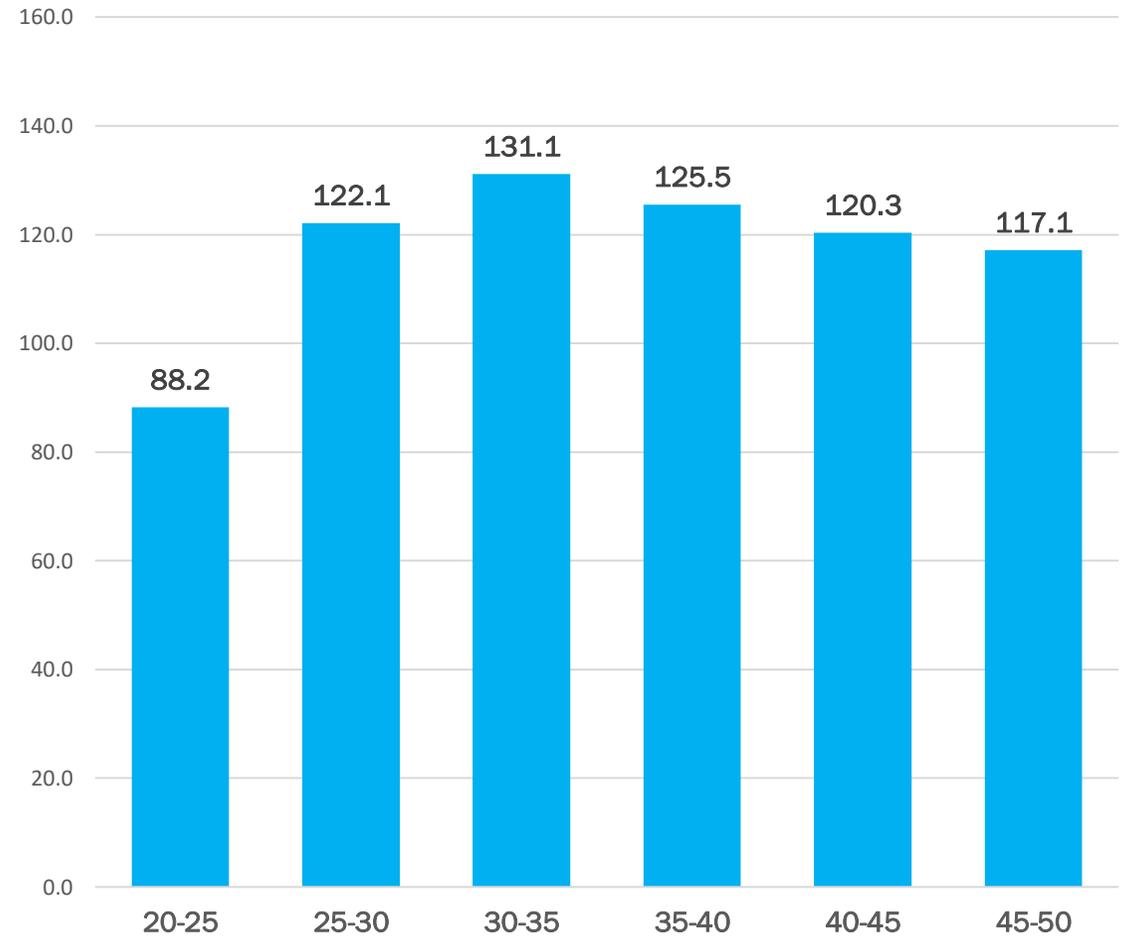
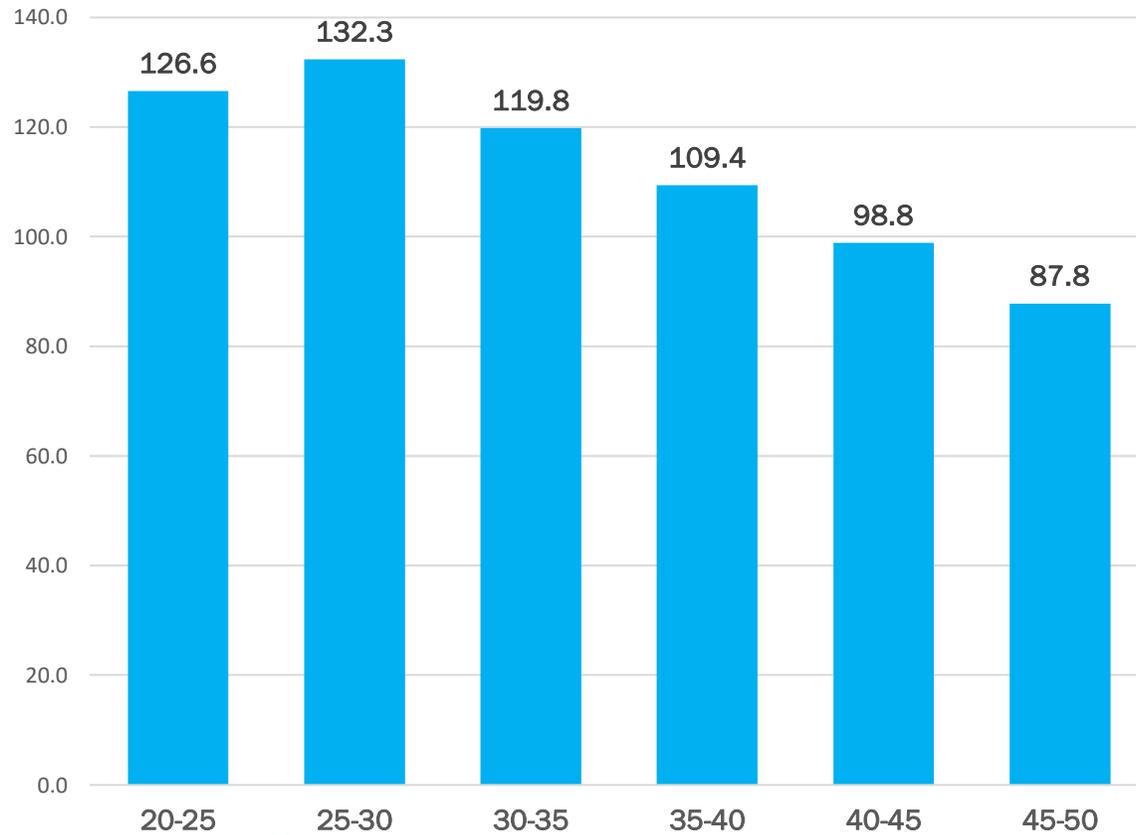
Revised Round 10 Households Cooperative Forecasts and Round 10 Econometric Model



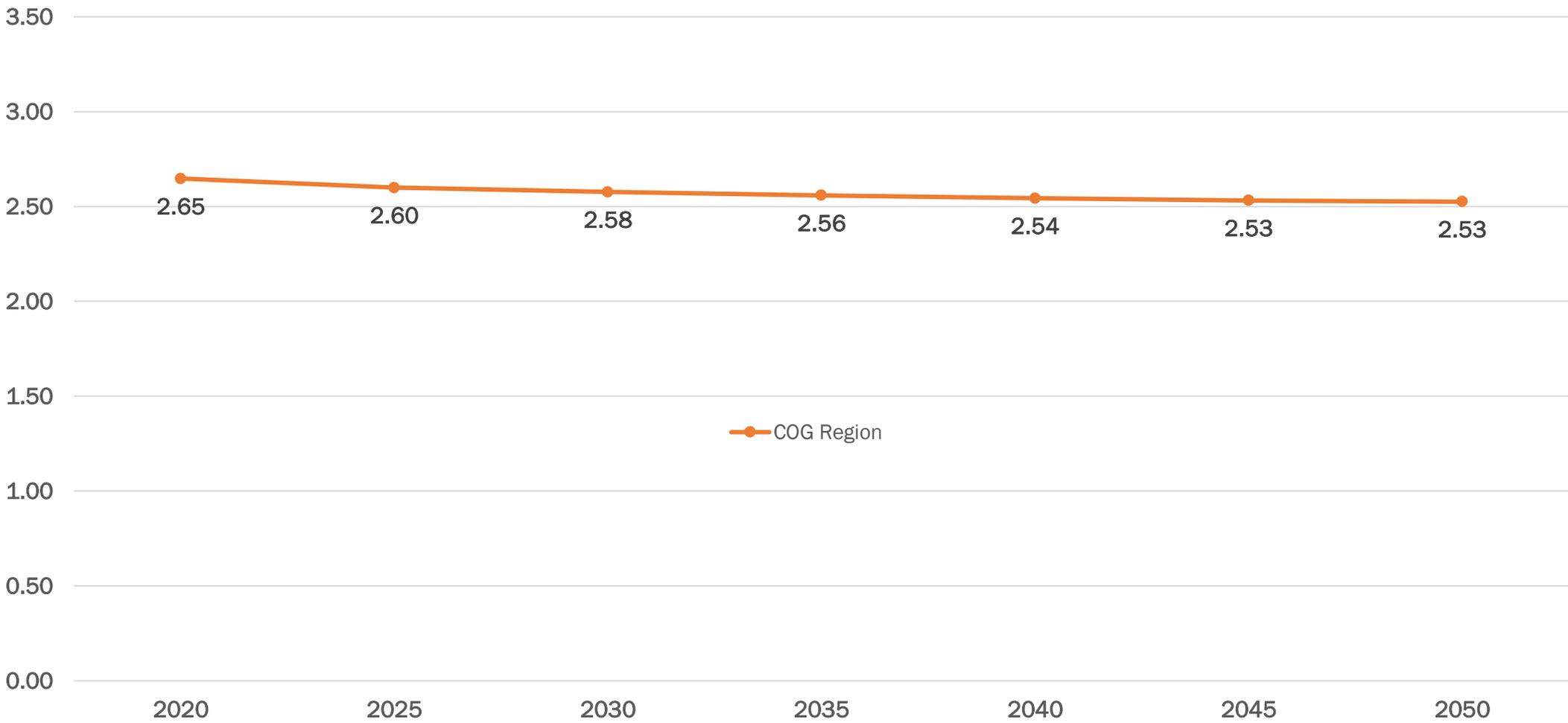
Revised Household Growth By 5-Year Interval: Draft Round 10 vs. Econometric Model

Revised Draft Round 10 Cooperative Forecasts

Econometric Model



Average Household Size COG Region (2020 to 2050)



Next Steps

- **November 2022 to March 2023:** Preliminary reconciliation of draft jurisdictional projections
- **March 2023** – Cooperative Forecasting Subcommittee and Planning Directors review draft Round 10 Jurisdictional Forecasts
- **March 1, 2023** – Jurisdictions submit TAZ forecasts
- **April/May 2023** – COG Board of Directors approves Round 10

Resources

Please visit COG's website for additional information about the Cooperative Forecasts:

- National Capital Region – Regional Transportation Data Clearinghouse (TPB's online transportation data warehouse) - [Link](#)
- COG Website - Data and More - [Link](#)
- COG Website - Growth Trends Reports - [Link](#)

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