



Draft Round 10 Summary

Draft Regional and Jurisdictional Totals, and Next Steps

February 23, 2022



Draft Round 10 Summary

Draft Round 10 Cooperative Forecasts - Summary

DRAFT - Round 10 Population

JURISDICTION	2020	2025	2030	2035	2040	2045	2050	CHANGE				PERCENT CHANGE			
								2020-2030	2030-2040	2040-2050	2020-2050	2020-2030	2030-2040	2040-2050	2020-2050
Anne Arundel County	592,695	621,687	646,214	664,214	677,424	687,119	694,235	53,519	31,210	16,811	101,540	9.0%	4.8%	2.5%	17.1%
Baltimore City	585,708	594,682	596,392	596,916	599,215	603,436	609,775	10,684	2,823	10,560	24,067	1.8%	0.5%	1.8%	4.1%
Baltimore County	854,535	865,439	873,042	889,897	903,365	913,637	926,900	18,507	30,323	23,535	72,365	2.2%	3.5%	2.6%	8.5%
Carroll County	172,891	176,533	179,407	181,976	184,478	186,874	189,070	6,516	5,071	4,593	16,179	3.8%	2.8%	2.5%	9.4%
Harford County	260,924	270,059	277,819	285,759	293,569	301,252	308,810	16,895	15,750	15,241	47,886	6.5%	5.7%	5.2%	18.4%
Howard County	332,317	349,645	363,936	379,967	393,593	404,560	414,774	31,619	29,657	21,181	82,457	9.5%	8.1%	5.4%	24.8%
Queen Anne's County	49,874	52,712	54,935	56,000	56,667	56,883	57,032	5,061	1,732	365	7,158	10.1%	3.2%	0.6%	14.4%
Baltimore Region	2,848,944	2,930,757	2,991,745	3,054,730	3,108,310	3,153,760	3,200,597	142,801	116,565	92,286	351,653	5.0%	3.9%	3.0%	12.3%

DRAFT - Round 10 Households

JURISDICTION	2020	2025	2030	2035	2040	2045	2050	CHANGE				PERCENT CHANGE			
								2020-2030	2030-2040	2040-2050	2020-2050	2020-2030	2030-2040	2040-2050	2020-2050
Anne Arundel County	219,971	228,528	236,781	244,935	251,583	256,055	260,350	16,810	14,802	8,767	40,379	7.6%	6.3%	3.5%	18.4%
Baltimore City	251,479	258,319	260,582	262,036	264,323	267,458	271,532	9,103	3,741	7,209	20,053	3.6%	1.4%	2.7%	8.0%
Baltimore County	329,964	334,568	337,585	344,274	349,618	353,694	358,957	7,621	12,033	9,339	28,993	2.3%	3.6%	2.7%	8.8%
Carroll County	63,050	64,486	65,654	66,757	67,814	68,849	69,870	2,604	2,160	2,056	6,820	4.1%	3.3%	3.0%	10.8%
Harford County	98,282	101,919	105,719	109,519	113,319	117,119	120,919	7,437	7,600	7,600	22,637	7.6%	7.2%	6.7%	23.0%
Howard County	118,781	126,599	133,334	141,148	147,881	153,953	159,721	14,553	14,547	11,840	40,940	12.3%	10.9%	8.0%	34.5%
Queen Anne's County	19,240	20,355	21,223	21,636	21,892	21,975	22,033	1,983	669	141	2,793	10.3%	3.2%	0.6%	14.5%
Baltimore Region	1,100,767	1,134,773	1,160,878	1,190,304	1,216,430	1,239,103	1,263,382	60,111	55,552	46,952	162,615	5.5%	4.8%	3.9%	14.8%

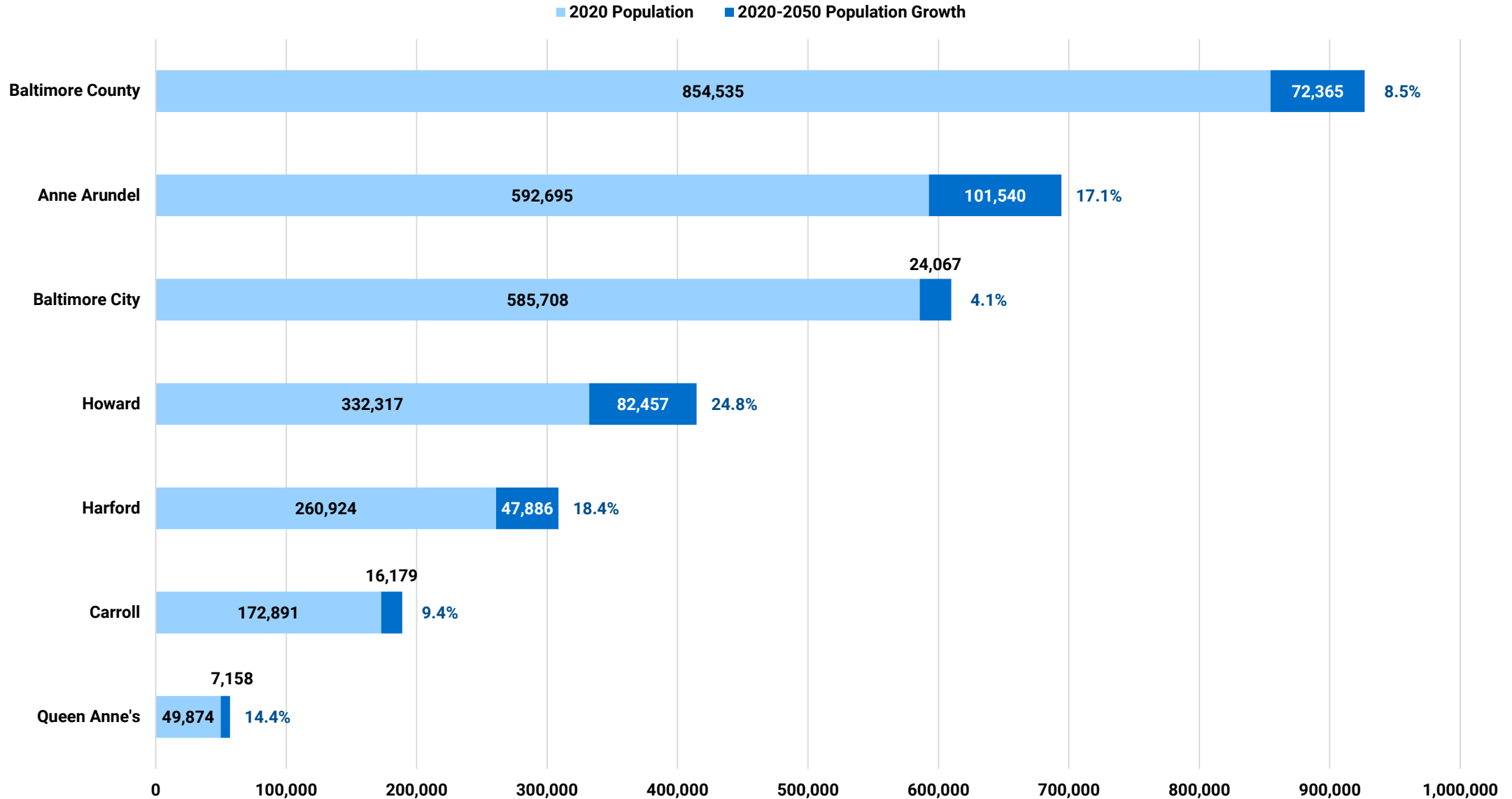
DRAFT - Round 10 Employment

JURISDICTION	2020	2025	2030	2035	2040	2045	2050	CHANGE				PERCENT CHANGE			
								2020-2030	2030-2040	2040-2050	2020-2050	2020-2030	2030-2040	2040-2050	2020-2050
Anne Arundel County	340,555	375,489	389,833	404,256	419,013	434,725	451,505	49,278	29,180	32,492	110,950	14.5%	7.5%	7.8%	32.6%
Baltimore City	365,047	376,225	392,216	408,545	425,154	441,529	445,810	27,169	32,938	20,656	80,763	7.4%	8.4%	4.9%	22.1%
Baltimore County	398,693	401,537	407,383	409,227	414,233	420,772	423,864	8,690	6,850	9,631	25,171	2.2%	1.7%	2.3%	6.3%
Carroll County	62,814	64,313	65,821	67,319	68,809	70,290	71,789	3,006	2,988	2,979	8,974	4.8%	4.5%	4.3%	14.3%
Harford County	100,748	110,606	120,560	130,808	141,273	151,868	162,499	19,812	20,712	21,226	61,751	19.7%	17.2%	15.0%	61.3%
Howard County	185,600	193,976	203,284	217,619	231,970	238,935	245,600	17,684	28,686	13,630	60,000	9.5%	14.1%	5.9%	32.3%
Queen Anne's County	16,562	16,775	17,125	17,250	17,375	17,525	17,700	563	250	325	1,138	3.4%	1.5%	1.9%	6.9%
Baltimore Region	1,470,019	1,538,921	1,596,222	1,655,025	1,717,827	1,775,644	1,818,767	126,203	121,605	100,940	348,748	8.6%	7.6%	5.9%	23.7%

Note: Anne Arundel County data includes the City of Annapolis.

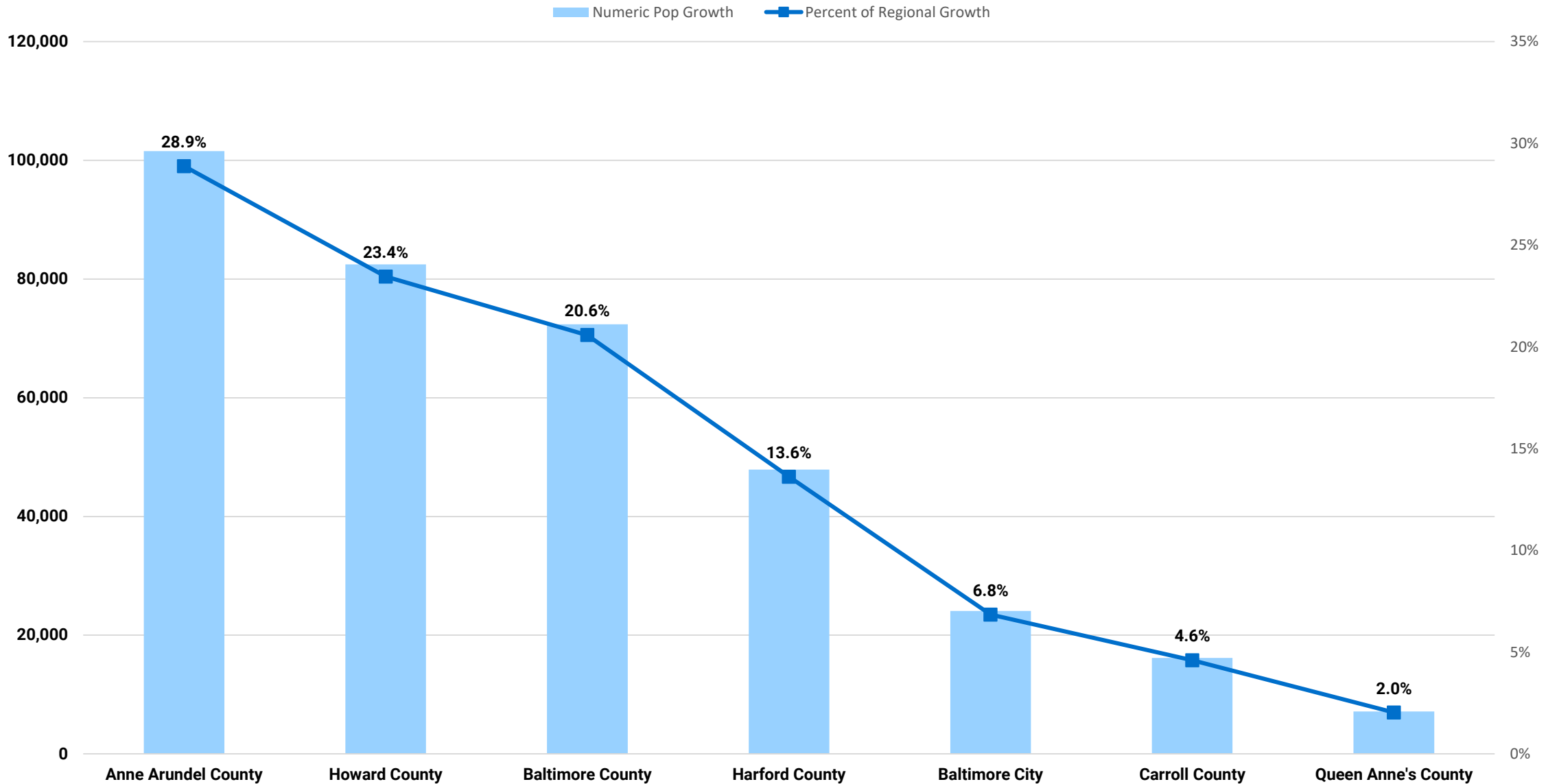
Source: Local jurisdictions; Cooperative Forecasting Group; Baltimore Metropolitan Council.

Draft Round 10 Cooperative Forecasts – Population



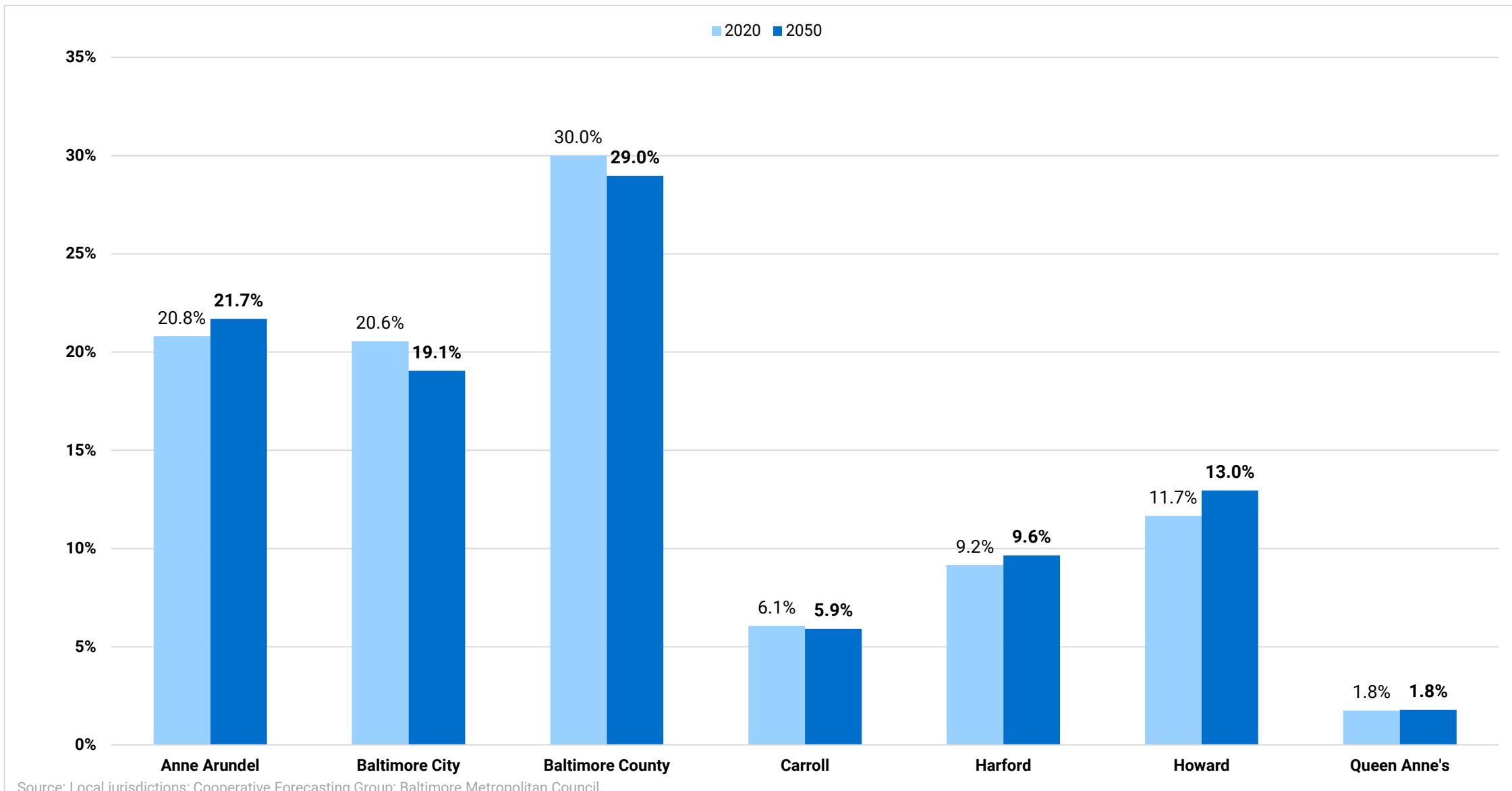
Source: Local jurisdictions; Cooperative Forecasting Group; Baltimore Metropolitan Council.

Draft Round 10 Cooperative Forecasts – Population Growth 2020-2050

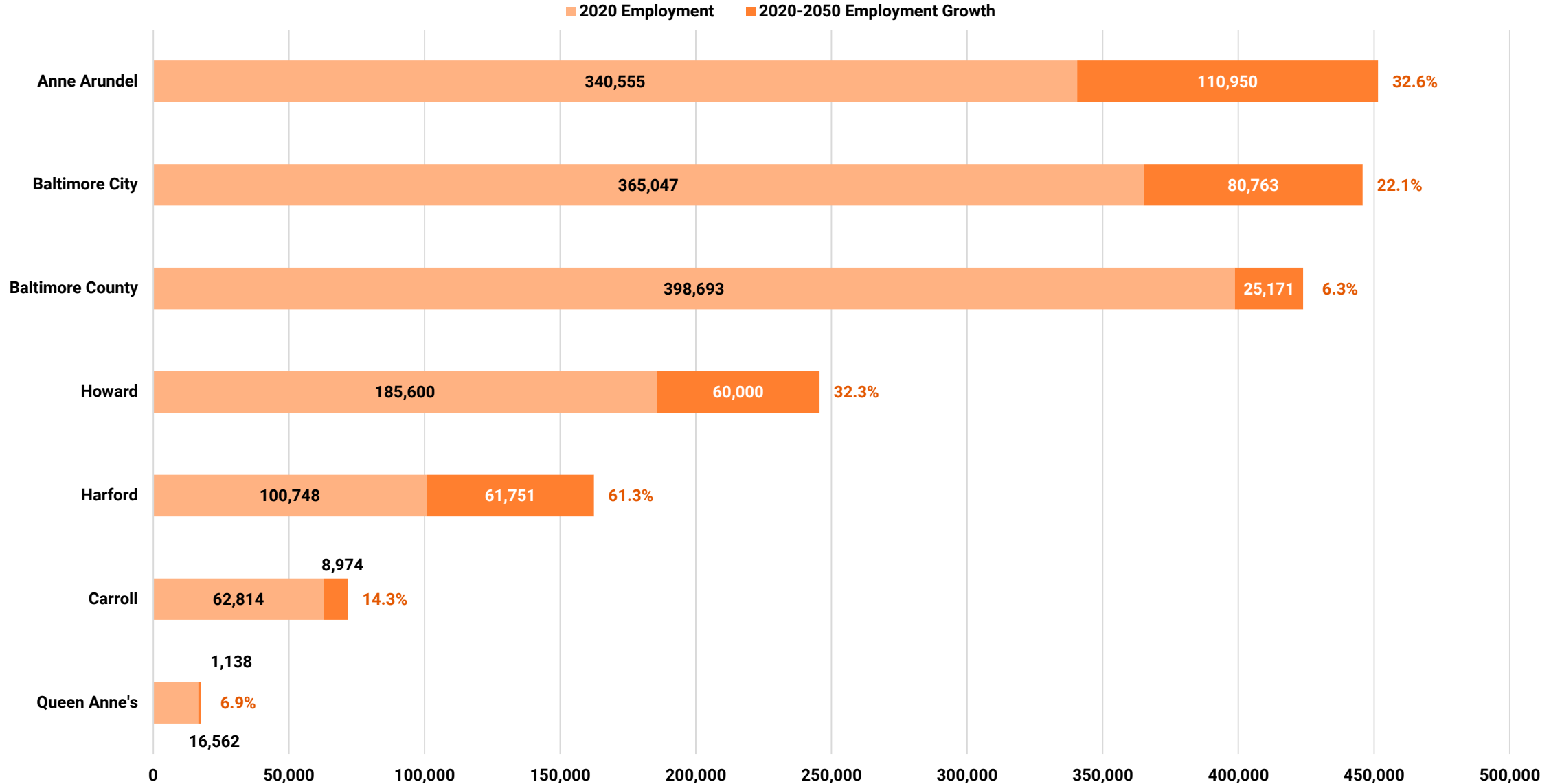


Source: Local jurisdictions; Cooperative Forecasting Group; Baltimore Metropolitan Council.

Draft Round 10 Cooperative Forecasts – Population: Share of Region

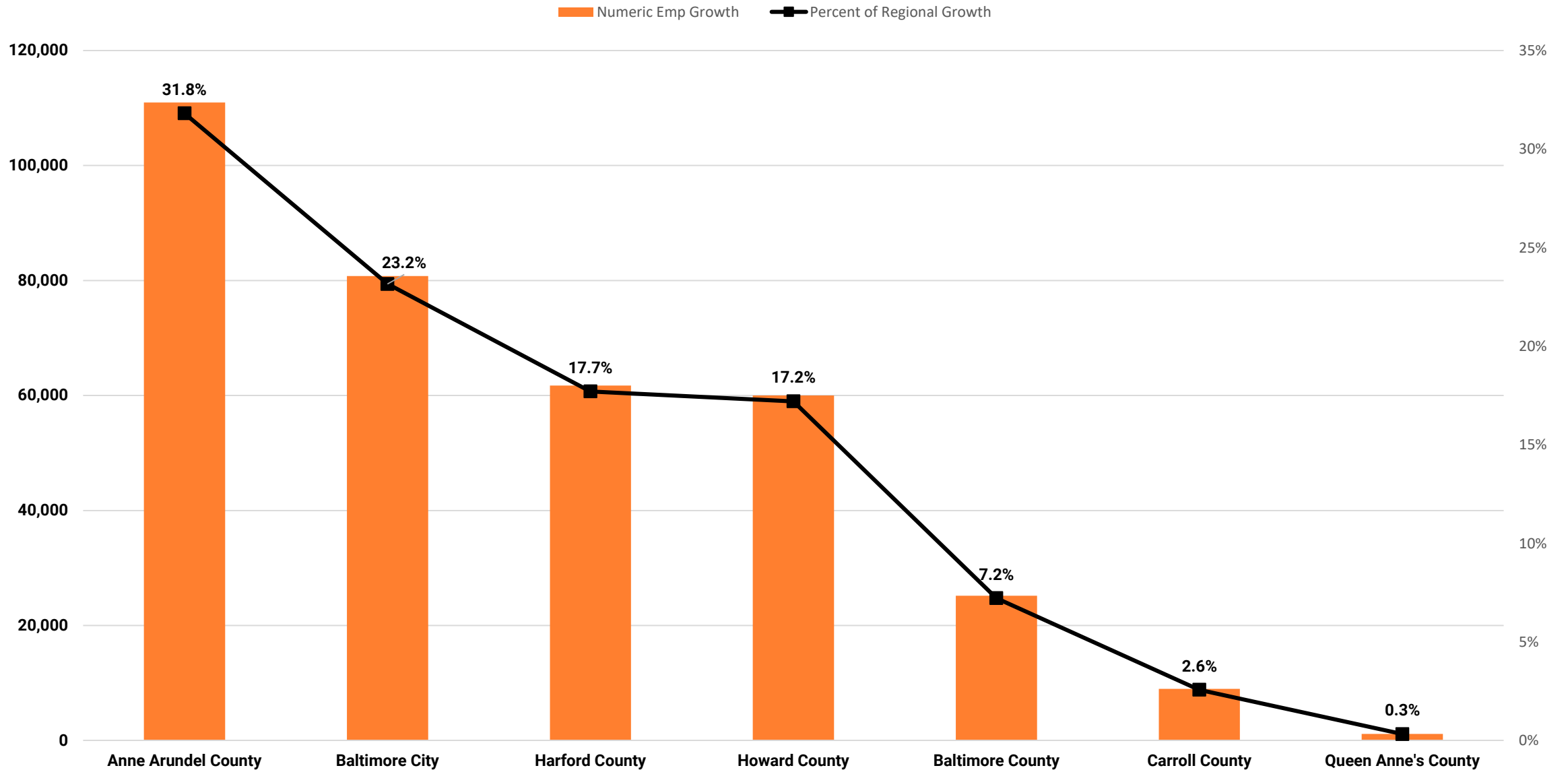


Draft Round 10 Cooperative Forecasts – Employment



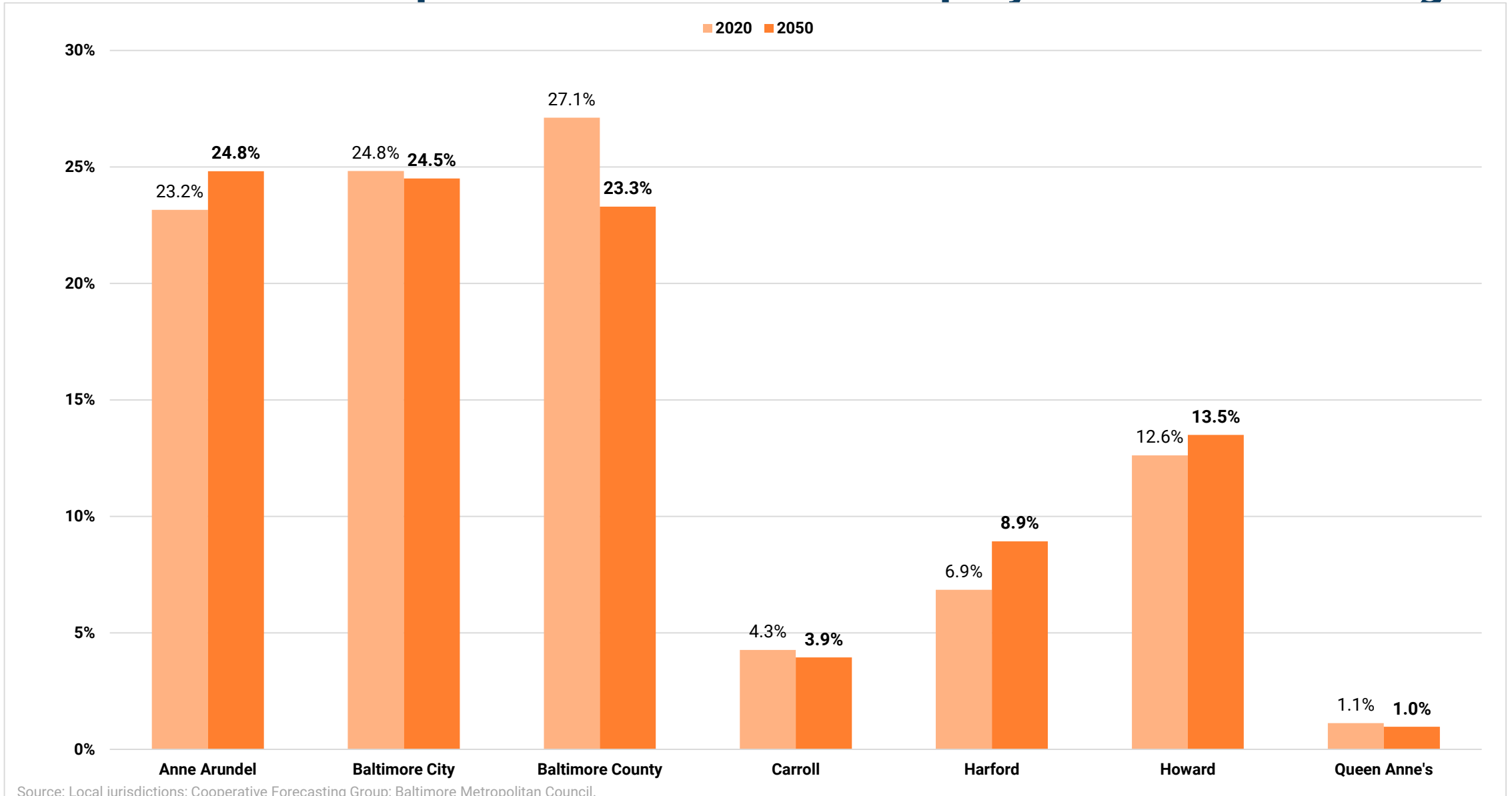
Source: Local jurisdictions; Cooperative Forecasting Group; Baltimore Metropolitan Council.

Draft R10 Cooperative Forecasts – Employment Growth 2020-2050



Source: Local jurisdictions; Cooperative Forecasting Group; Baltimore Metropolitan Council.

Draft Round 10 Cooperative Forecasts – Employment: Share of Region

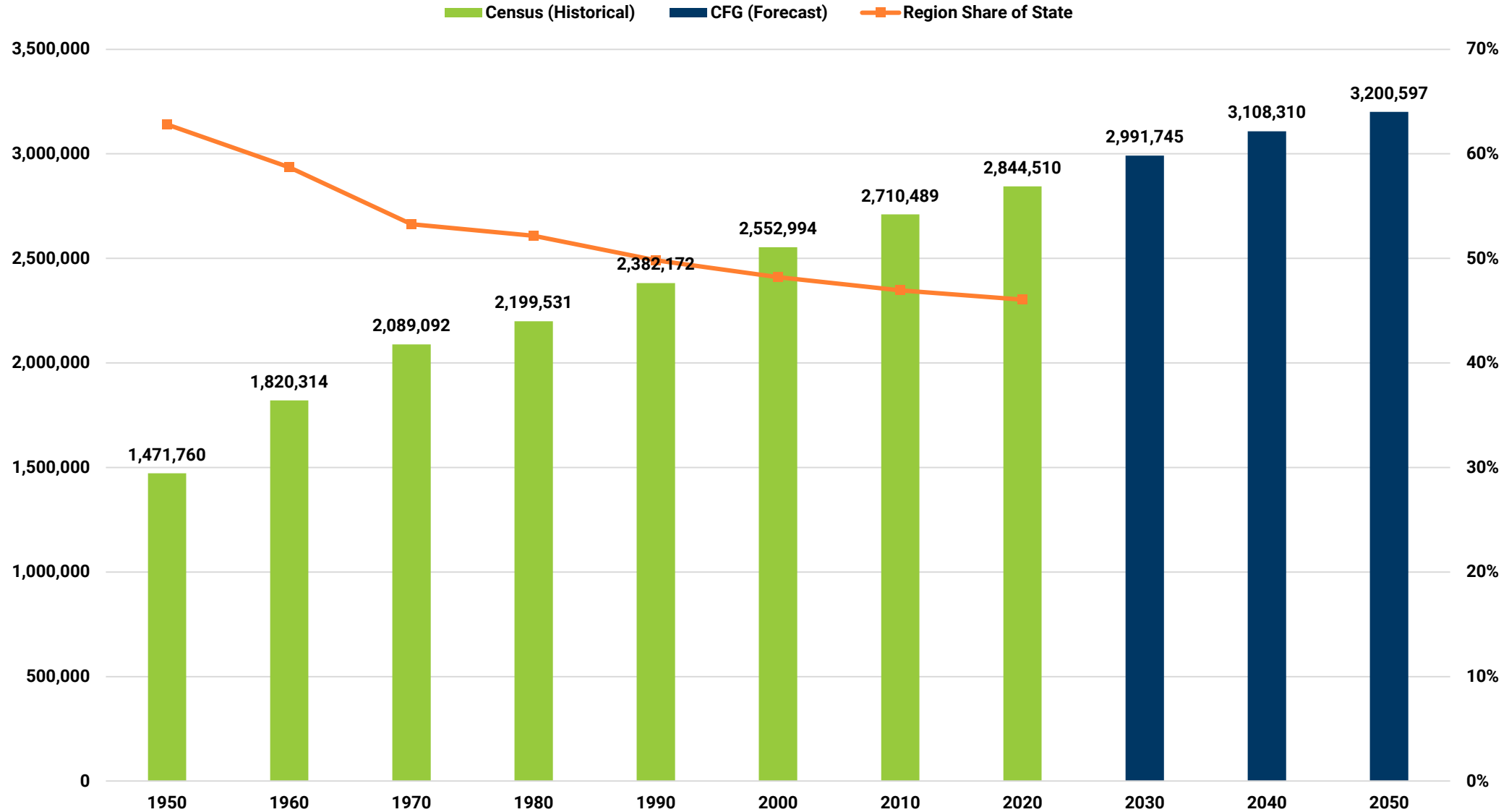


Source: Local jurisdictions; Cooperative Forecasting Group; Baltimore Metropolitan Council.

Comparison: Draft Round 10 and Round 9A

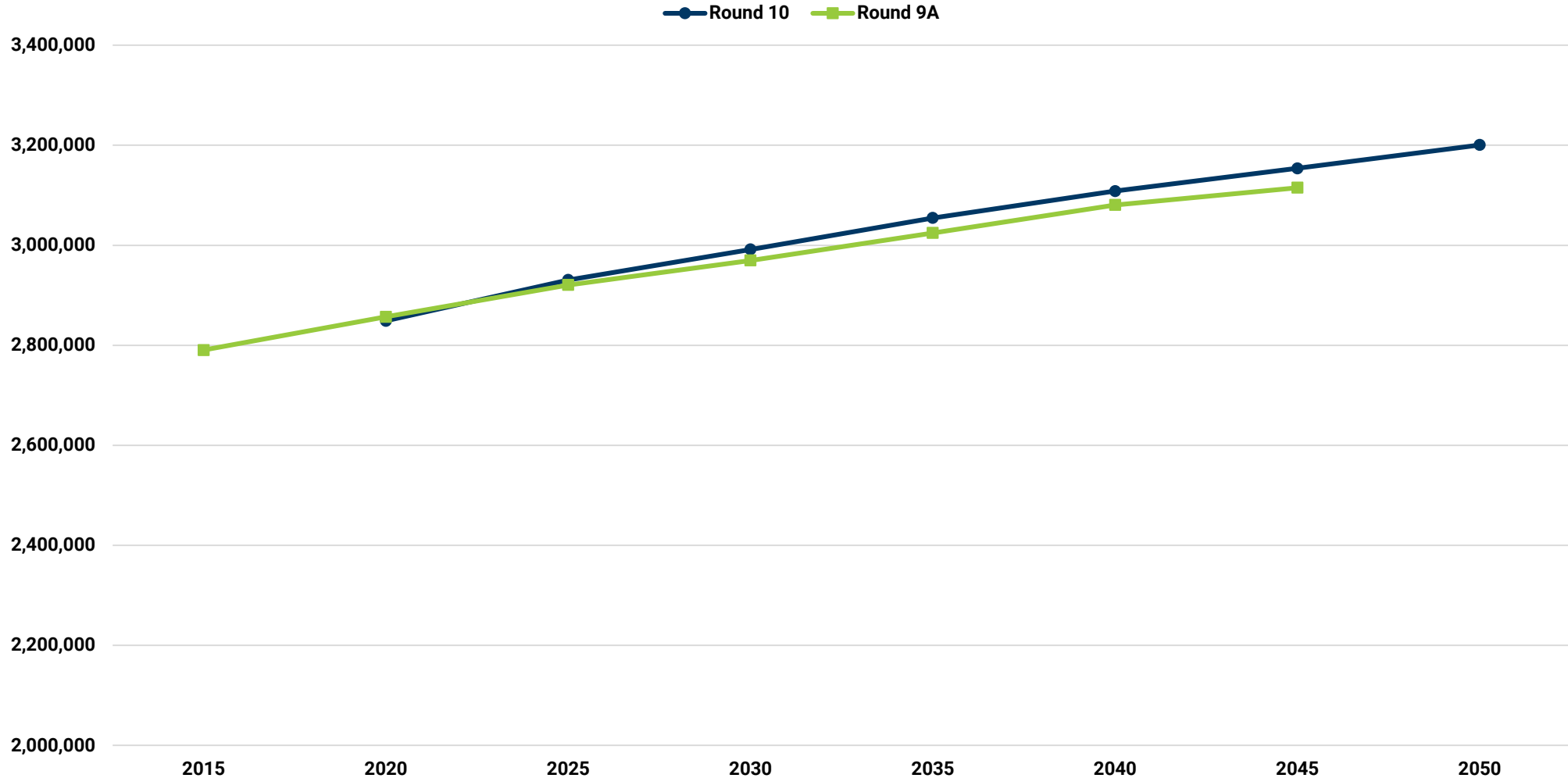
Baltimore Region

Baltimore Region Population: Historical Trend and Draft R10 Forecast



Source: U.S. Census Bureau; Cooperative Forecasting Group (Draft Round 10, January 2022); Baltimore Metropolitan Council.

Baltimore Region Population Comparison: Draft Round 10 and Round 9A

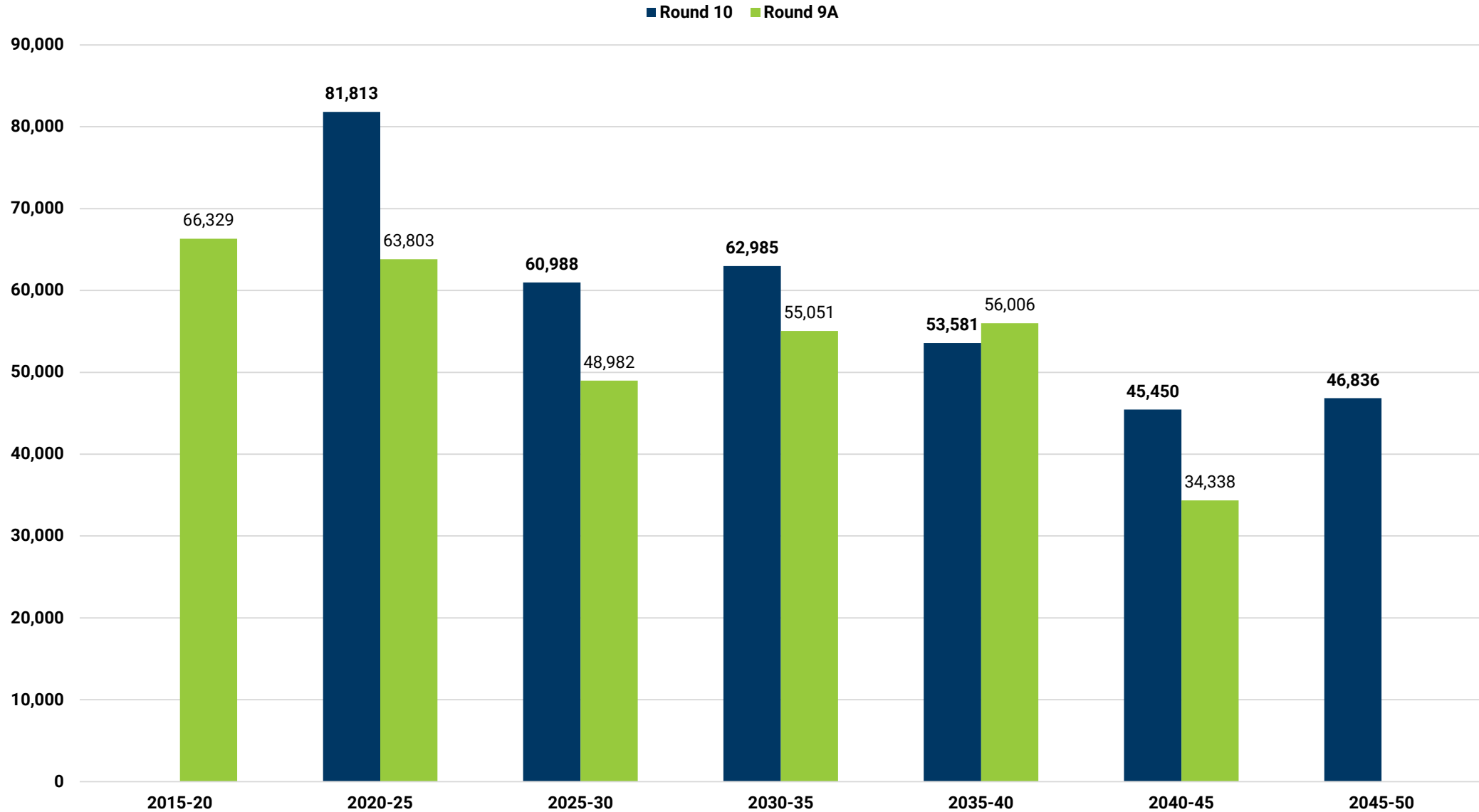


Source: Local jurisdictions; Cooperative Forecasting Group; Baltimore Metropolitan Council.

Population	2015	2020	2025	2030	2035	2040	2045	2050
Round 10	2,848,944	2,930,757	2,991,745	3,054,730	3,108,310	3,153,760	3,200,597	
Round 9A	2,790,561	2,856,890	2,920,693	2,969,675	3,024,726	3,080,732	3,115,070	
Chg		-7,946	10,064	22,070	30,004	27,578	38,690	
% Chg		-0.3%	0.3%	0.7%	1.0%	0.9%	1.2%	

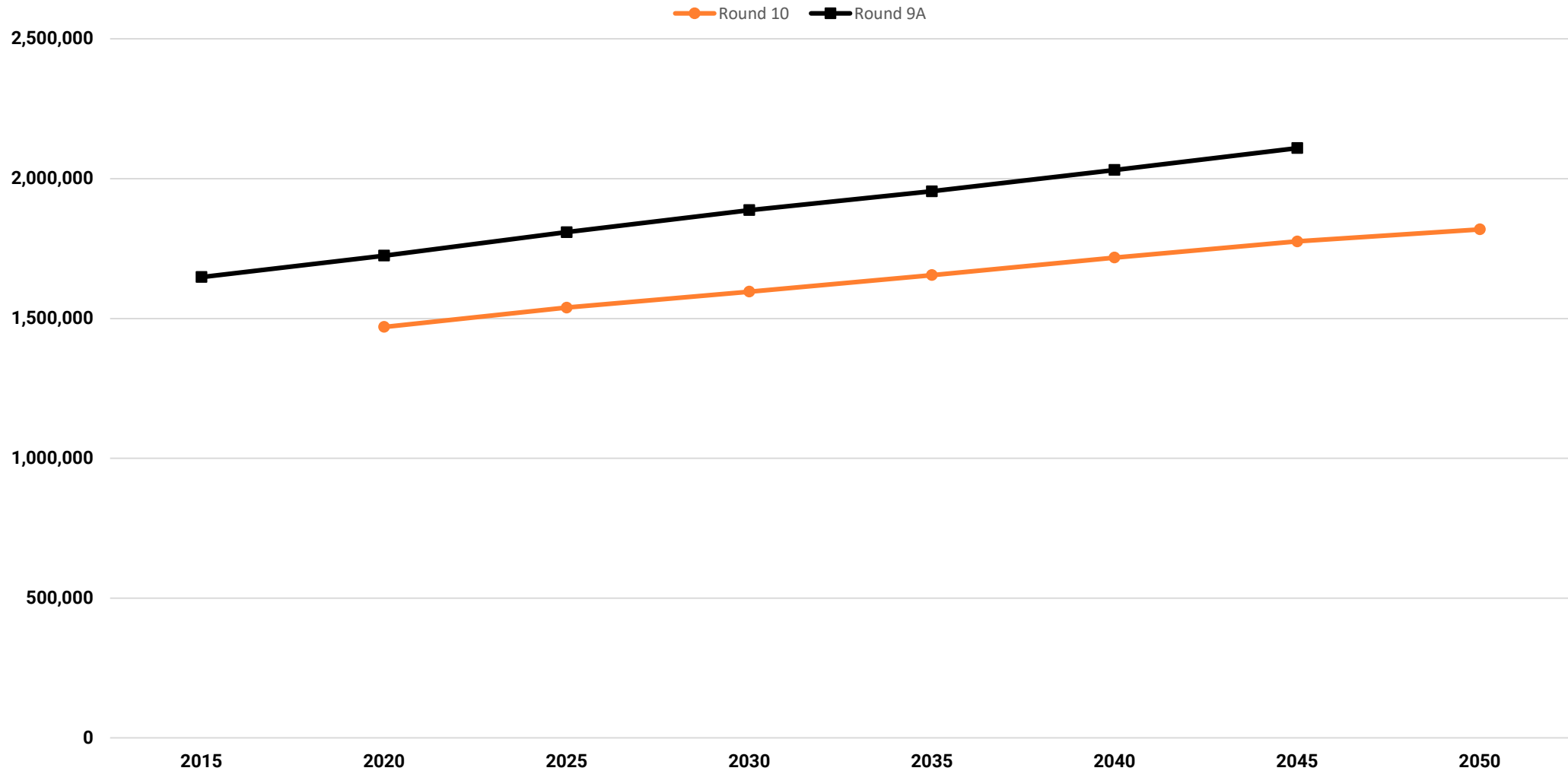


Baltimore Region Population Growth Comparison: Draft R10 and R9A



Source: Local jurisdictions; Cooperative Forecasting Group; Baltimore Metropolitan Council.

Baltimore Region Employment Comparison: Draft Round 10 and Round 9A



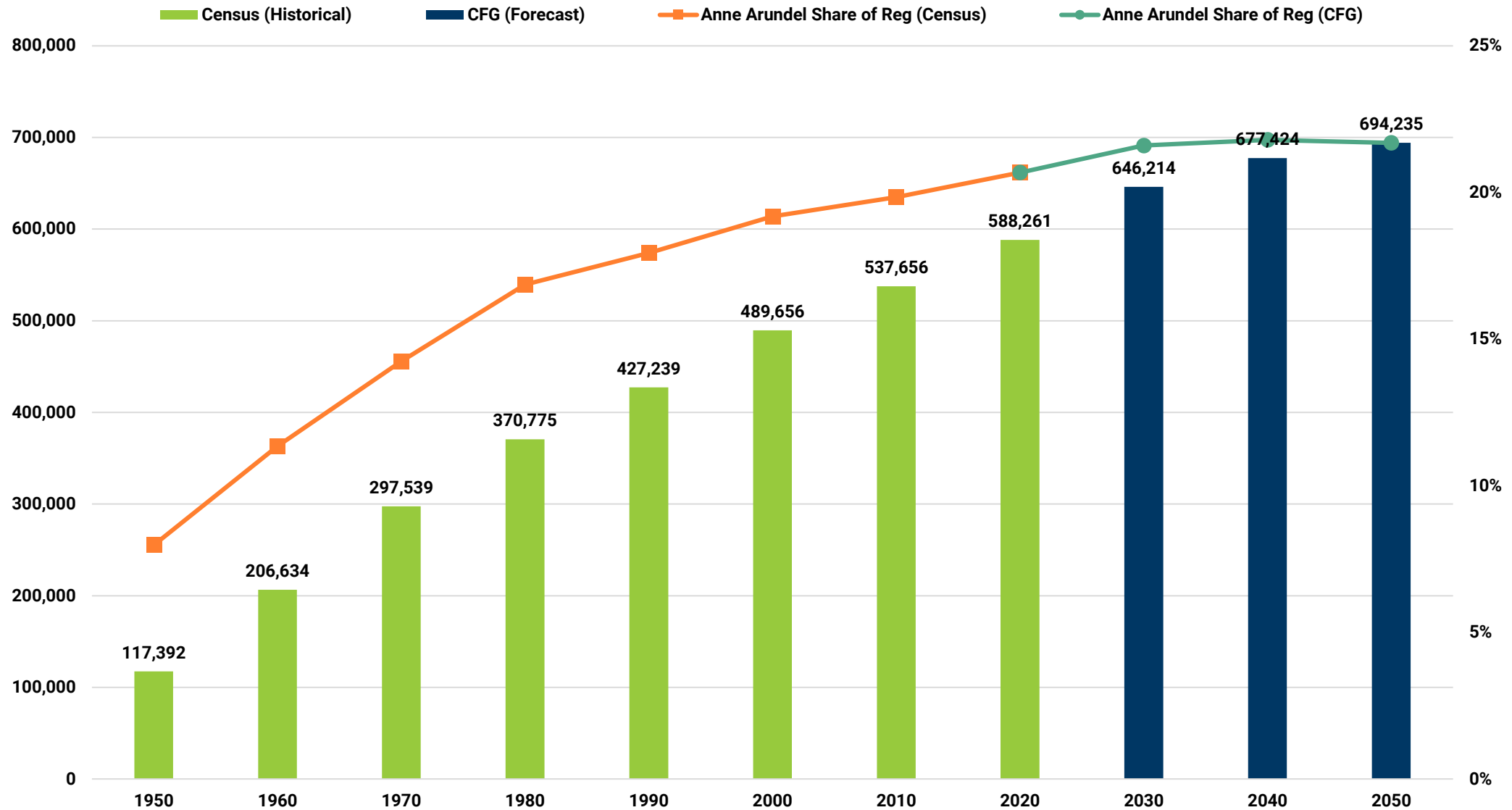
Source: Local jurisdictions; Cooperative Forecasting Group; Baltimore Metropolitan Council.

Employment	2015	2020	2025	2030	2035	2040	2045	2050
Round 10		1,470,019	1,538,921	1,596,222	1,655,025	1,717,827	1,775,644	1,818,767
Round 9A	1,648,103	1,724,946	1,808,811	1,887,531	1,954,902	2,030,979	2,109,271	
Chg		-254,927	-269,890	-291,309	-299,877	-313,152	-333,627	
% Chg		-14.8%	-14.9%	-15.4%	-15.3%	-15.4%	-15.8%	



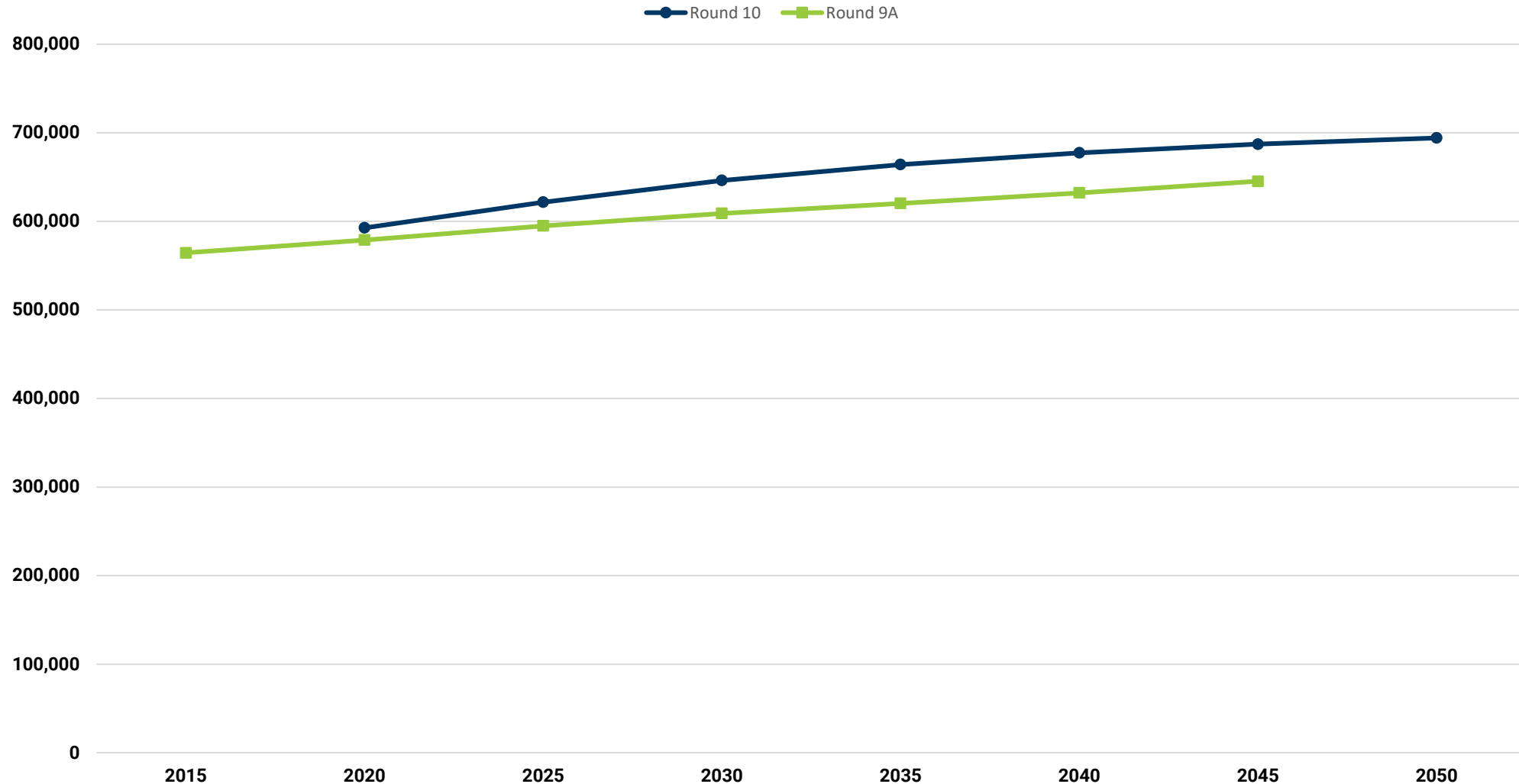
Anne Arundel County

Anne Arundel Population: Historical Trend and Draft R10 Forecast



Source: U.S. Census Bureau; Cooperative Forecasting Group (Draft Round 10, January 2022); Baltimore Metropolitan Council.

Anne Arundel Population Comparison: Draft Round 10 and Round 9A

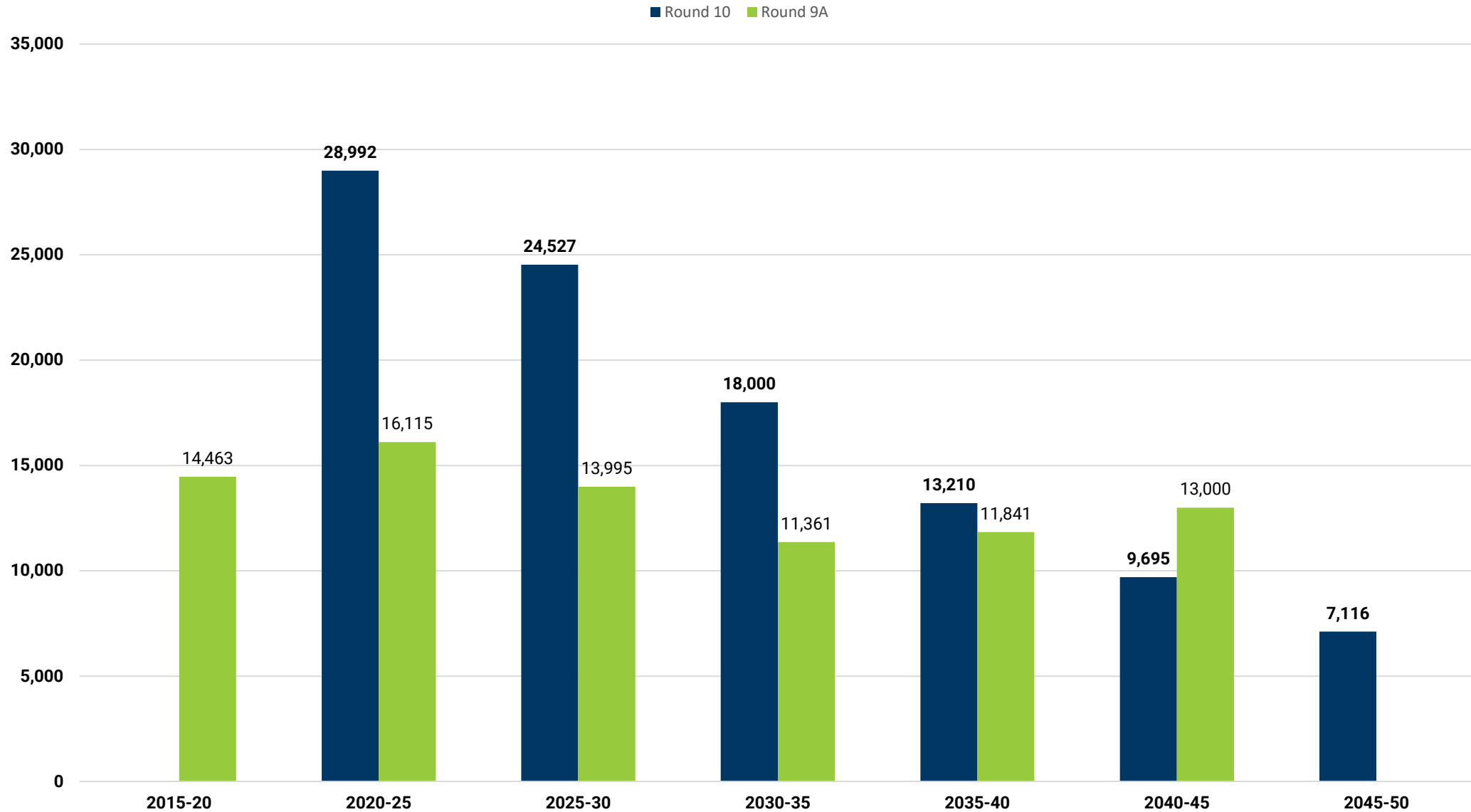


Source: Local jurisdictions; Cooperative Forecasting Group; Baltimore Metropolitan Council.

Population	2015	2020	2025	2030	2035	2040	2045	2050
Round 10	564,420	592,695	621,687	646,214	664,214	677,424	687,119	694,235
Round 9A	564,420	578,883	594,998	608,993	620,354	632,195	645,195	-
Chg	-	13,812	26,689	37,221	43,860	45,229	41,924	-
% Chg	-	2.4%	4.5%	6.1%	7.1%	7.2%	6.5%	-

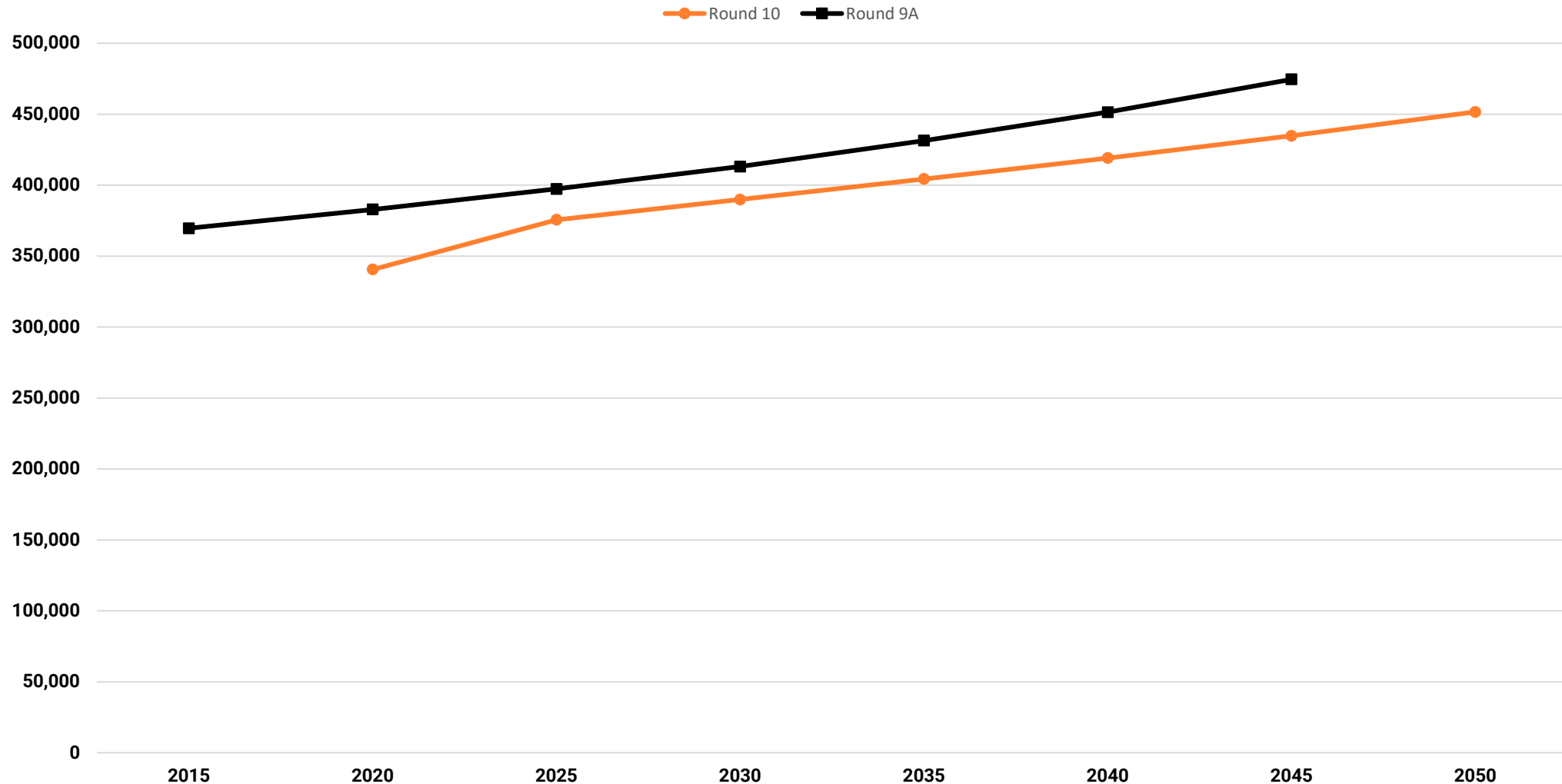


Anne Arundel Population Growth Comparison: Draft R10 and R9A



Source: Local jurisdictions; Cooperative Forecasting Group; Baltimore Metropolitan Council.

Anne Arundel Employment Comparison: Draft Round 10 and Round 9A



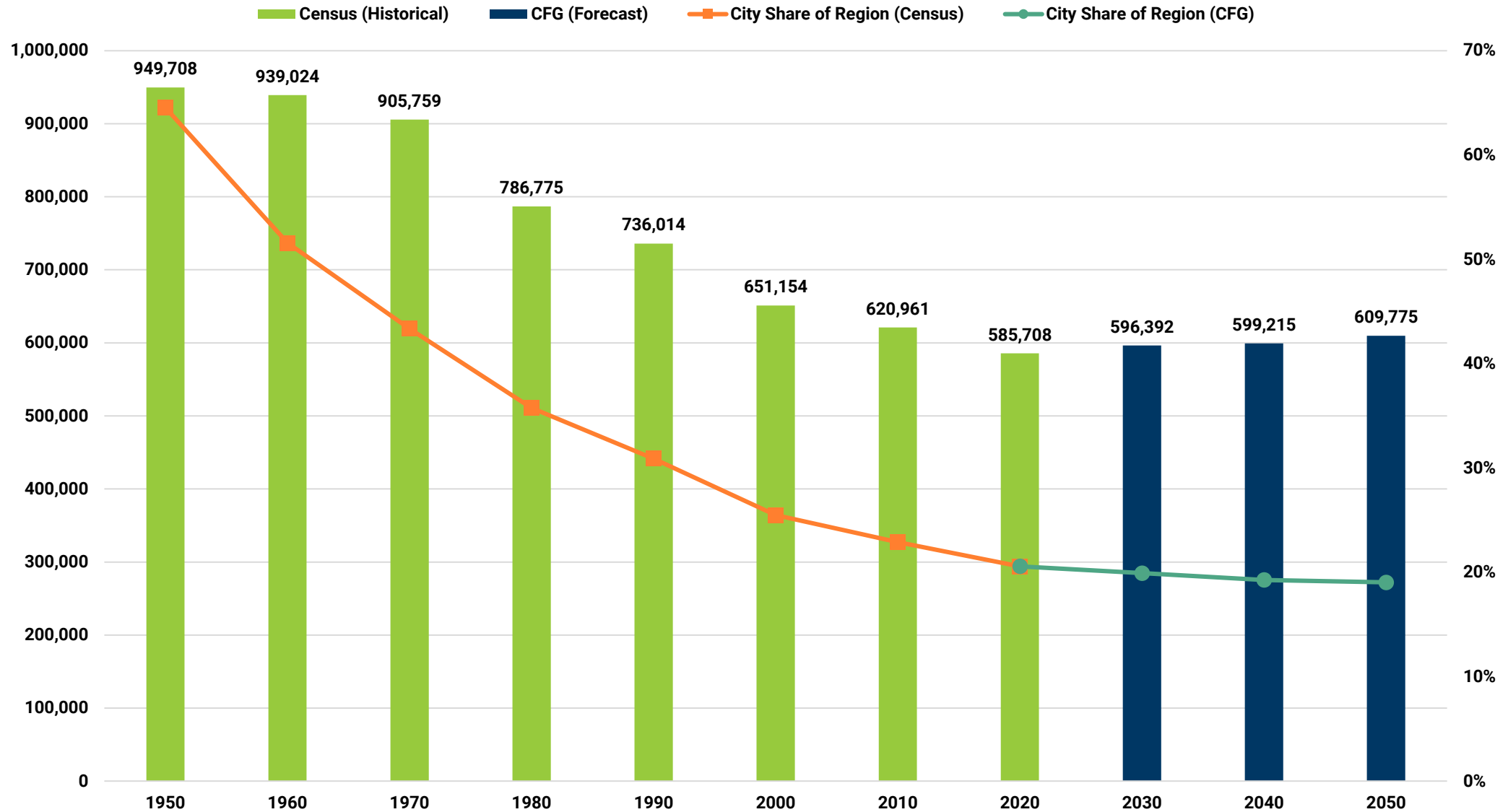
Source: Local jurisdictions; Cooperative Forecasting Group; Baltimore Metropolitan Council.

Employment	2015	2020	2025	2030	2035	2040	2045	2050
Round 10		340,555	375,489	389,833	404,256	419,013	434,725	451,505
Round 9A	369,580	382,795	397,236	413,039	431,305	451,373	474,511	
Chg		-42,240	-21,747	-23,206	-27,049	-32,360	-39,786	
% Chg		-11.0%	-5.5%	-5.6%	-6.3%	-7.2%	-8.4%	



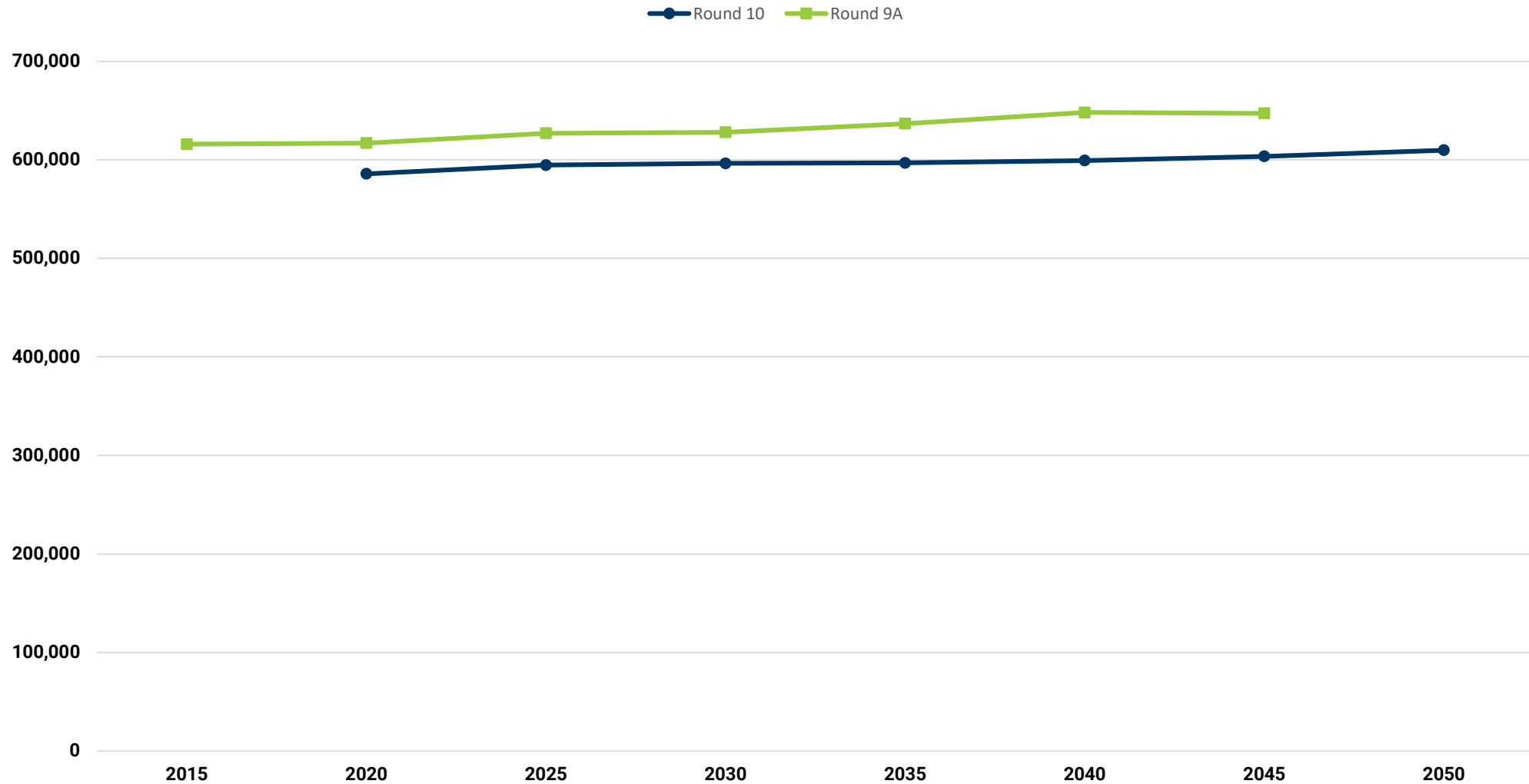
Baltimore City

Baltimore City Population: Historical Trend and Draft R10 Forecast



Source: U.S. Census Bureau; Cooperative Forecasting Group (Draft Round 10, January 2022); Baltimore Metropolitan Council.

Baltimore City Population Comparison: Draft Round 10 and Round 9A

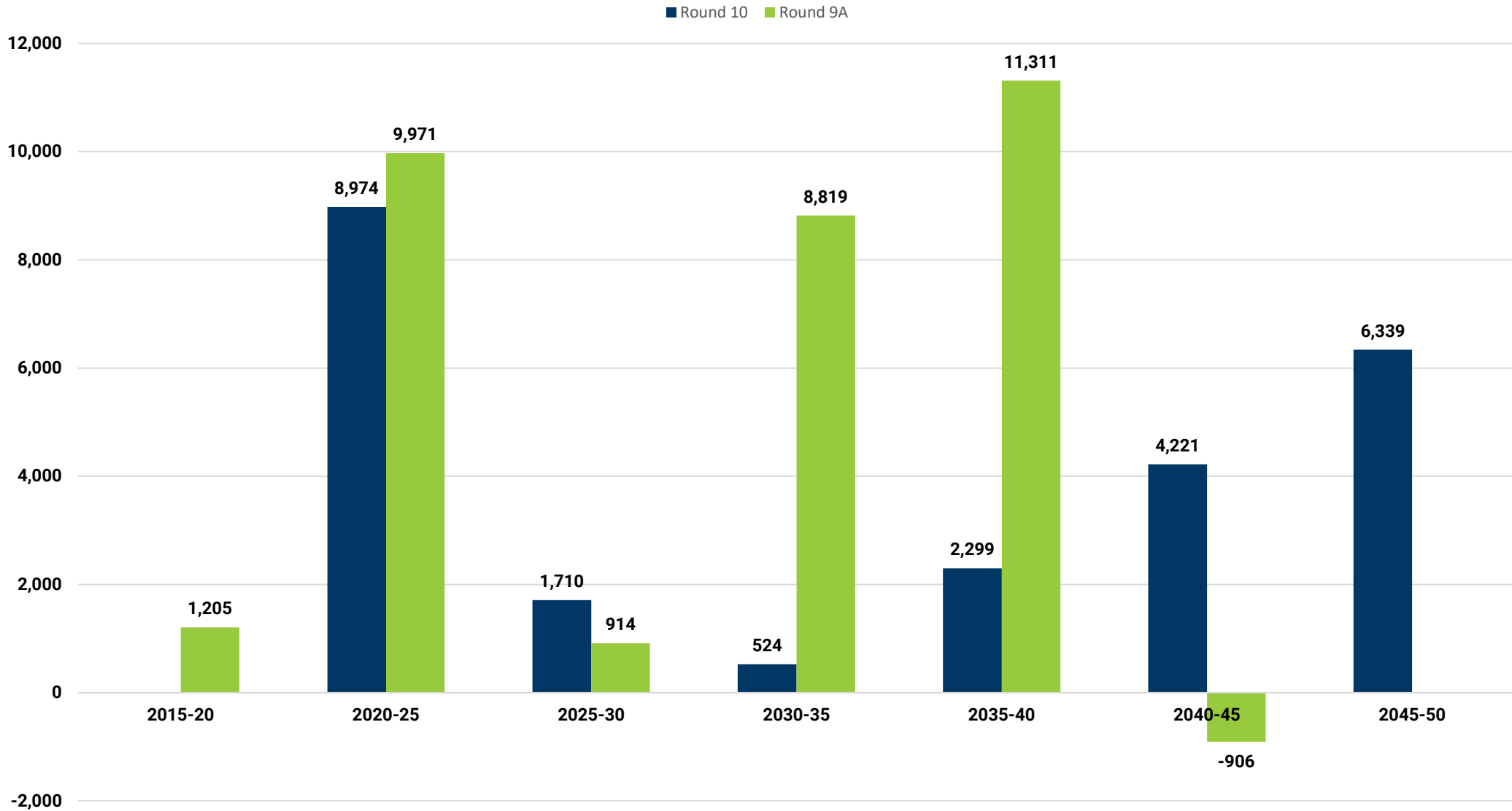


Source: Local jurisdictions: Cooperative Forecasting Group; Baltimore Metropolitan Council.

Population	2015	2020	2025	2030	2035	2040	2045	2050
Round 10		585,708	594,682	596,392	596,916	599,215	603,436	609,775
Round 9A	615,813	617,018	626,989	627,904	636,723	648,033	647,127	
Chg		-31,310	-32,307	-31,512	-39,807	-48,818	-43,691	
% Chg		-5.1%	-5.2%	-5.0%	-6.3%	-7.5%	-6.8%	

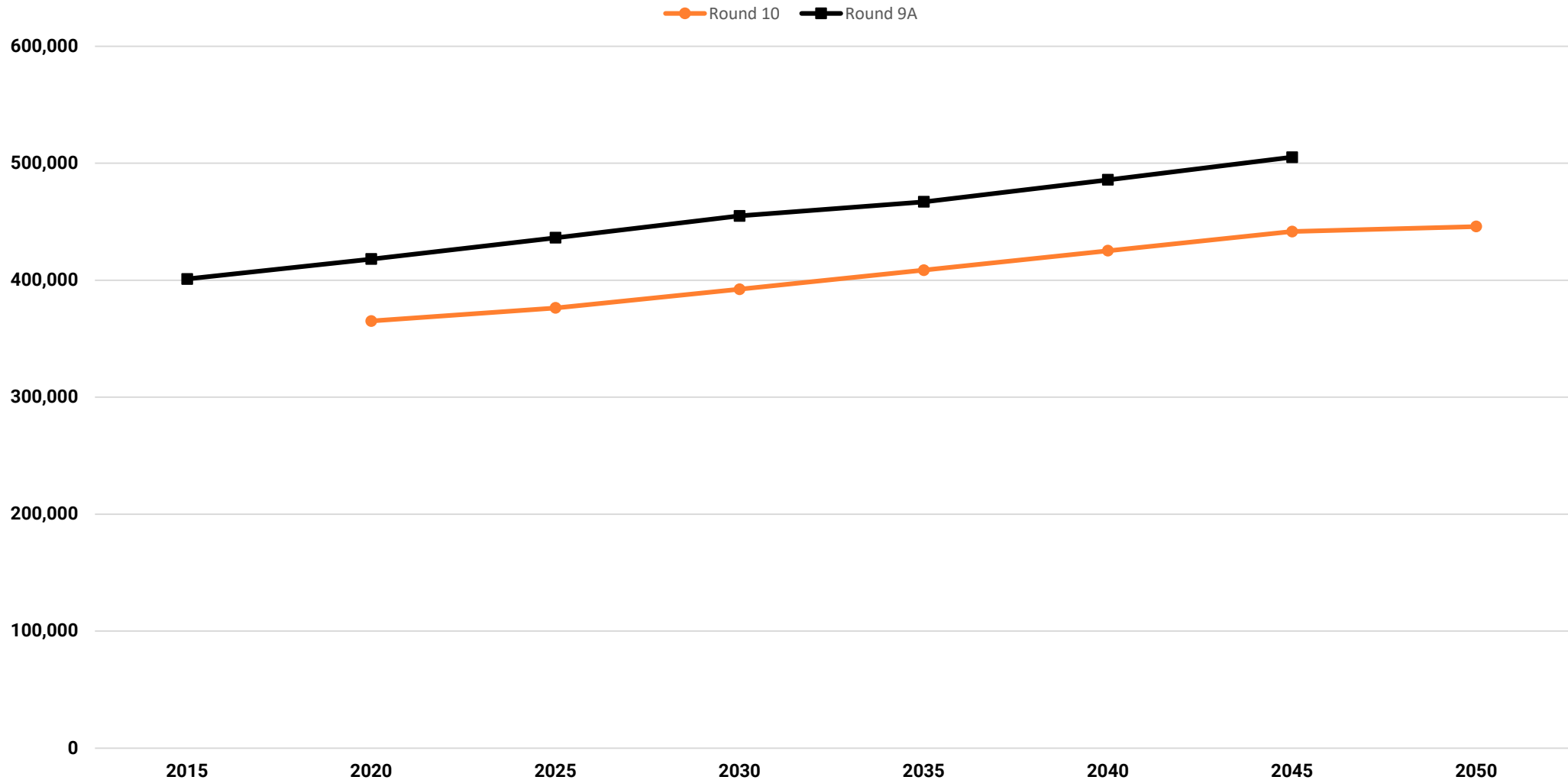


Baltimore City Population Growth Comparison: Draft R10 and R9A



Source: Local jurisdictions; Cooperative Forecasting Group; Baltimore Metropolitan Council.

Baltimore City Employment Comparison: Draft Round 10 and Round 9A



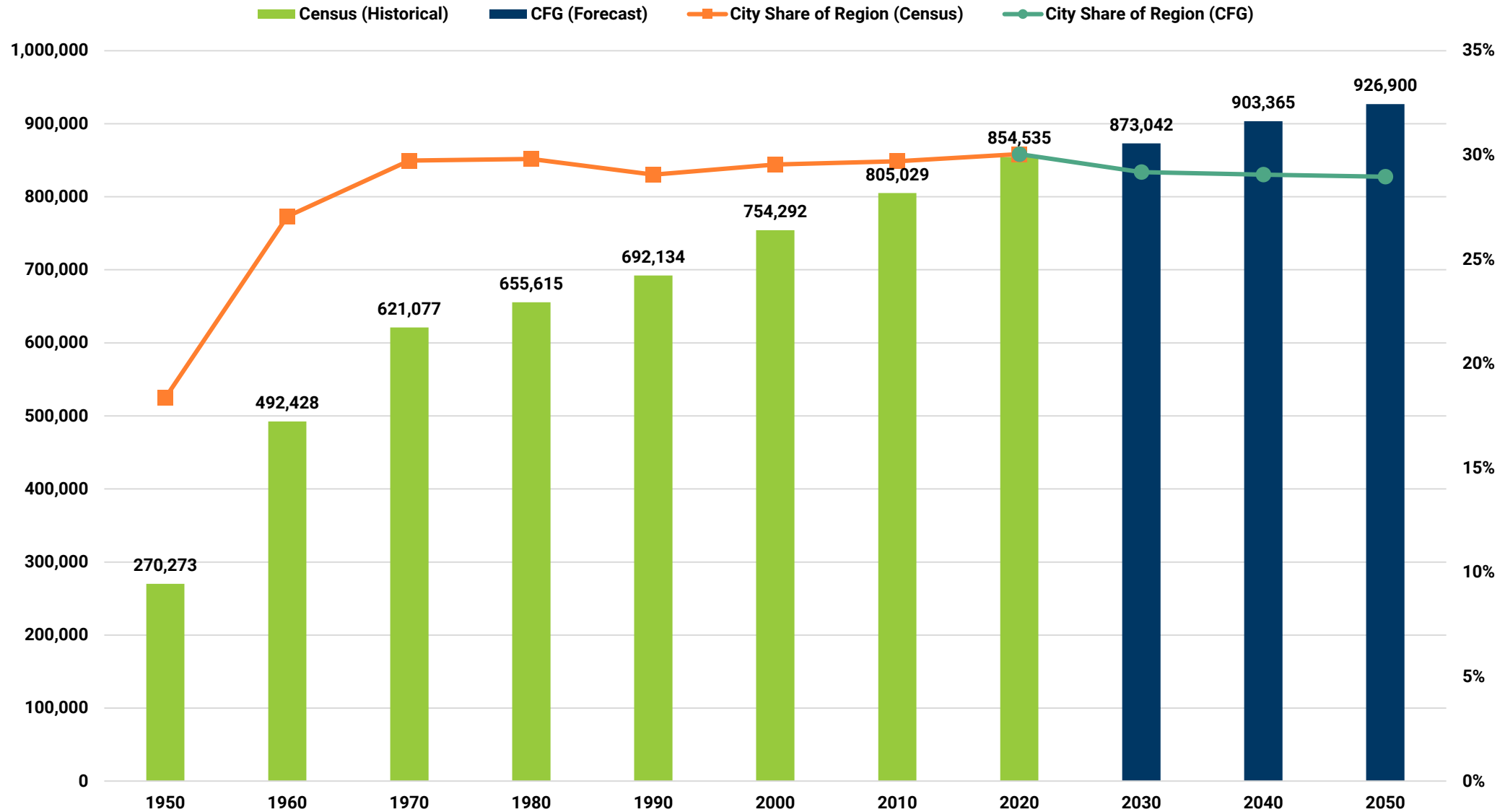
Source: Local jurisdictions; Cooperative Forecasting Group; Baltimore Metropolitan Council.

Employment	2015	2020	2025	2030	2035	2040	2045	2050
Round 10	-	365,047	376,225	392,216	408,545	425,154	441,529	445,810
Round 9A	401,082	418,102	436,252	454,948	466,906	485,731	505,068	-
Chg	-	-53,055	-60,027	-62,732	-58,361	-60,577	-63,539	-
% Chg	-	-12.7%	-13.8%	-13.8%	-12.5%	-12.5%	-12.6%	-



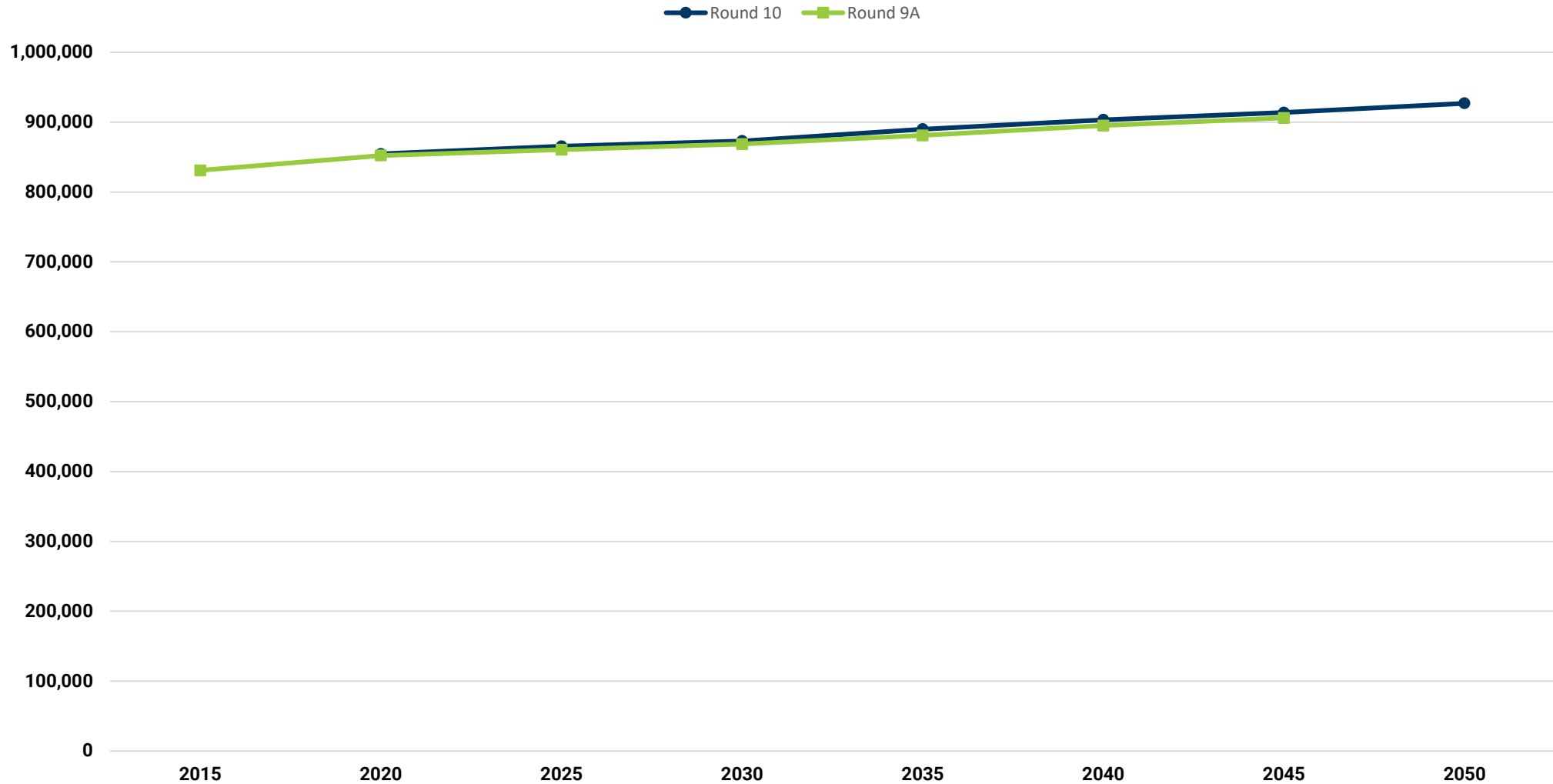
Baltimore County

Baltimore County Population: Historical Trend and Draft R10 Forecast



Source: U.S. Census Bureau; Cooperative Forecasting Group (Draft Round 10, January 2022); Baltimore Metropolitan Council.

Baltimore County Population Comparison: Draft Round 10 & Round 9A

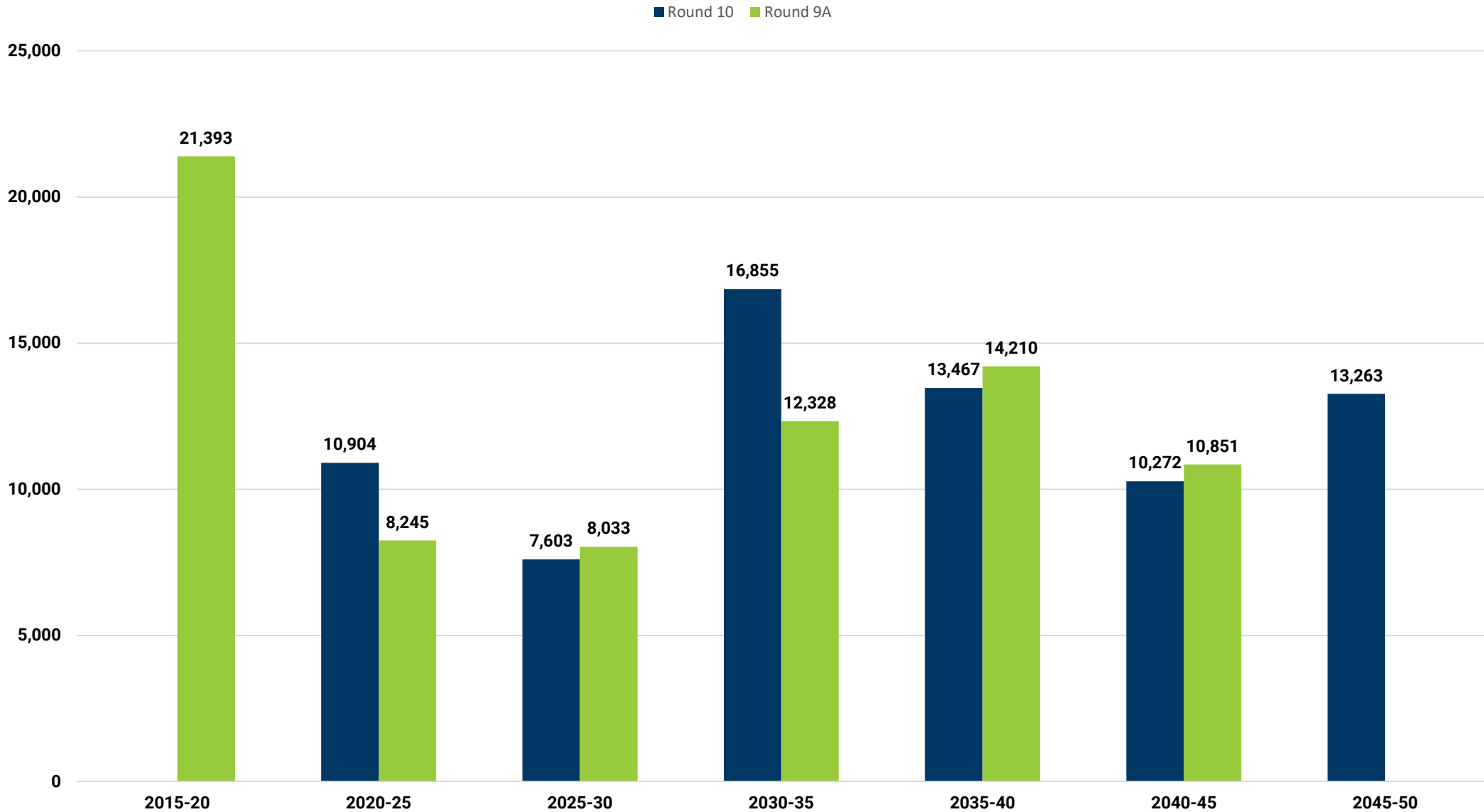


Source: Local jurisdictions; Cooperative Forecasting Group; Baltimore Metropolitan Council.

Population	2015	2020	2025	2030	2035	2040	2045	2050
Round 10	830,918	854,535	865,439	873,042	889,897	903,365	913,637	926,900
Round 9A	830,918	852,310	860,556	868,589	880,917	895,127	905,979	-
Chg	-	2,225	4,883	4,453	8,980	8,237	7,658	-
% Chg	-	0.3%	0.6%	0.5%	1.0%	0.9%	0.8%	-

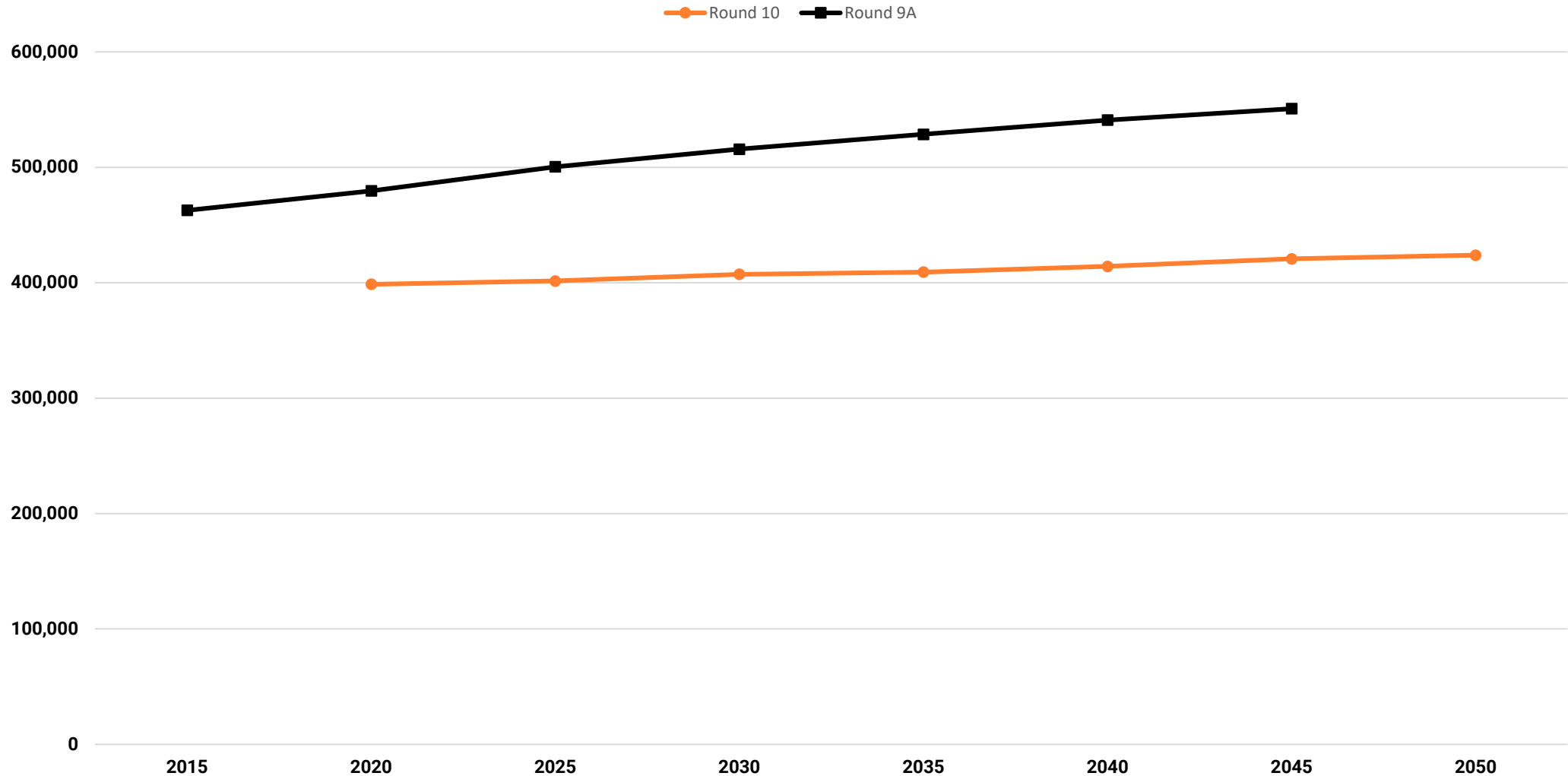


Baltimore County Population Growth Comparison: Draft R10 and R9A



Source: Local jurisdictions; Cooperative Forecasting Group; Baltimore Metropolitan Council.

Baltimore County Employment Comparison: Draft Round 10 and Round 9A



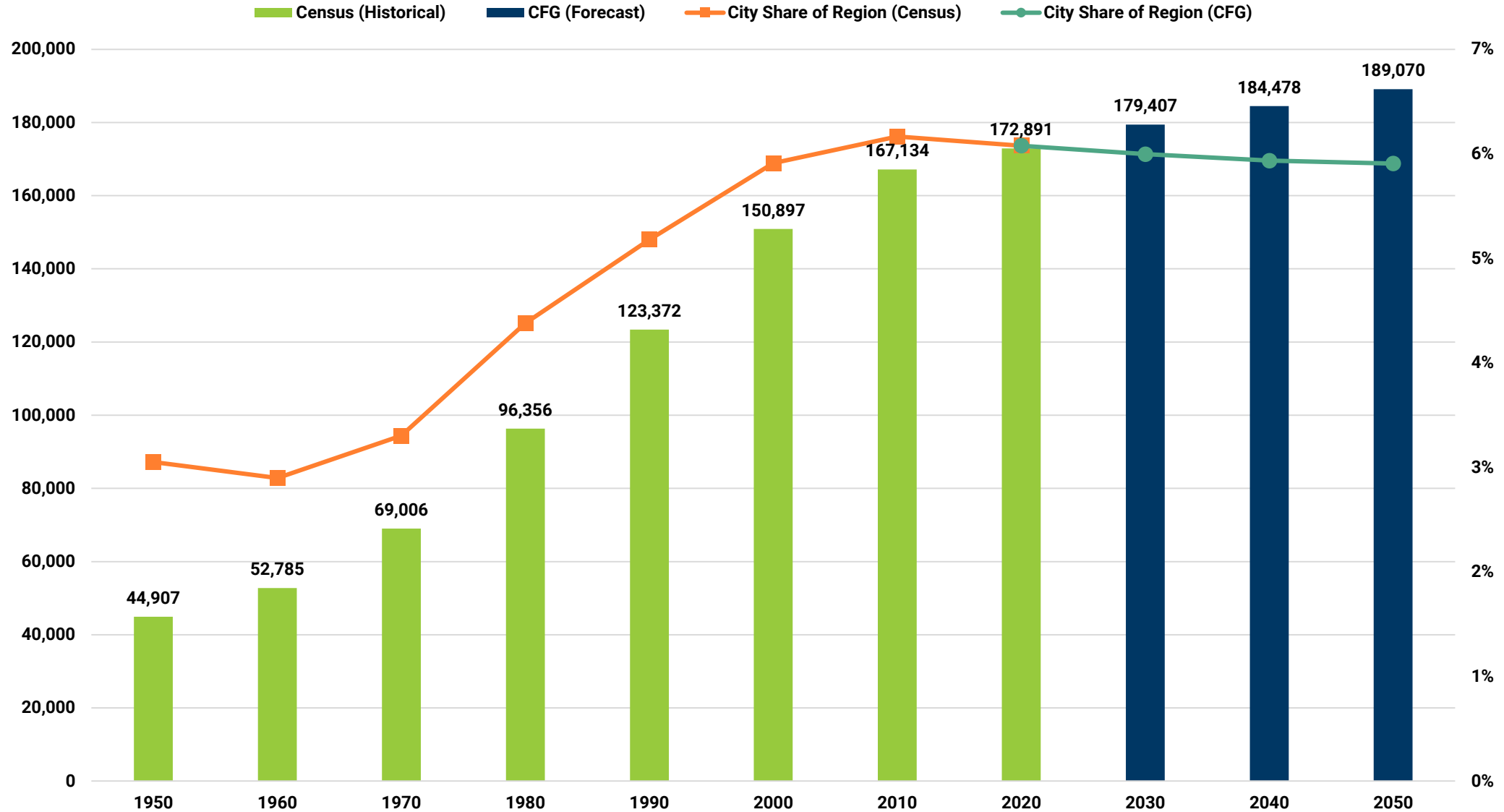
Source: Local jurisdictions; Cooperative Forecasting Group; Baltimore Metropolitan Council.

Employment	2015	2020	2025	2030	2035	2040	2045	2050
Round 10		398,693	401,537	407,383	409,227	414,233	420,772	423,864
Round 9A	462,770	479,680	500,515	515,752	528,684	540,935	550,843	
Chg		-80,987	-98,978	-108,369	-119,456	-126,702	-130,070	
% Chg		-16.9%	-19.8%	-21.0%	-22.6%	-23.4%	-23.6%	



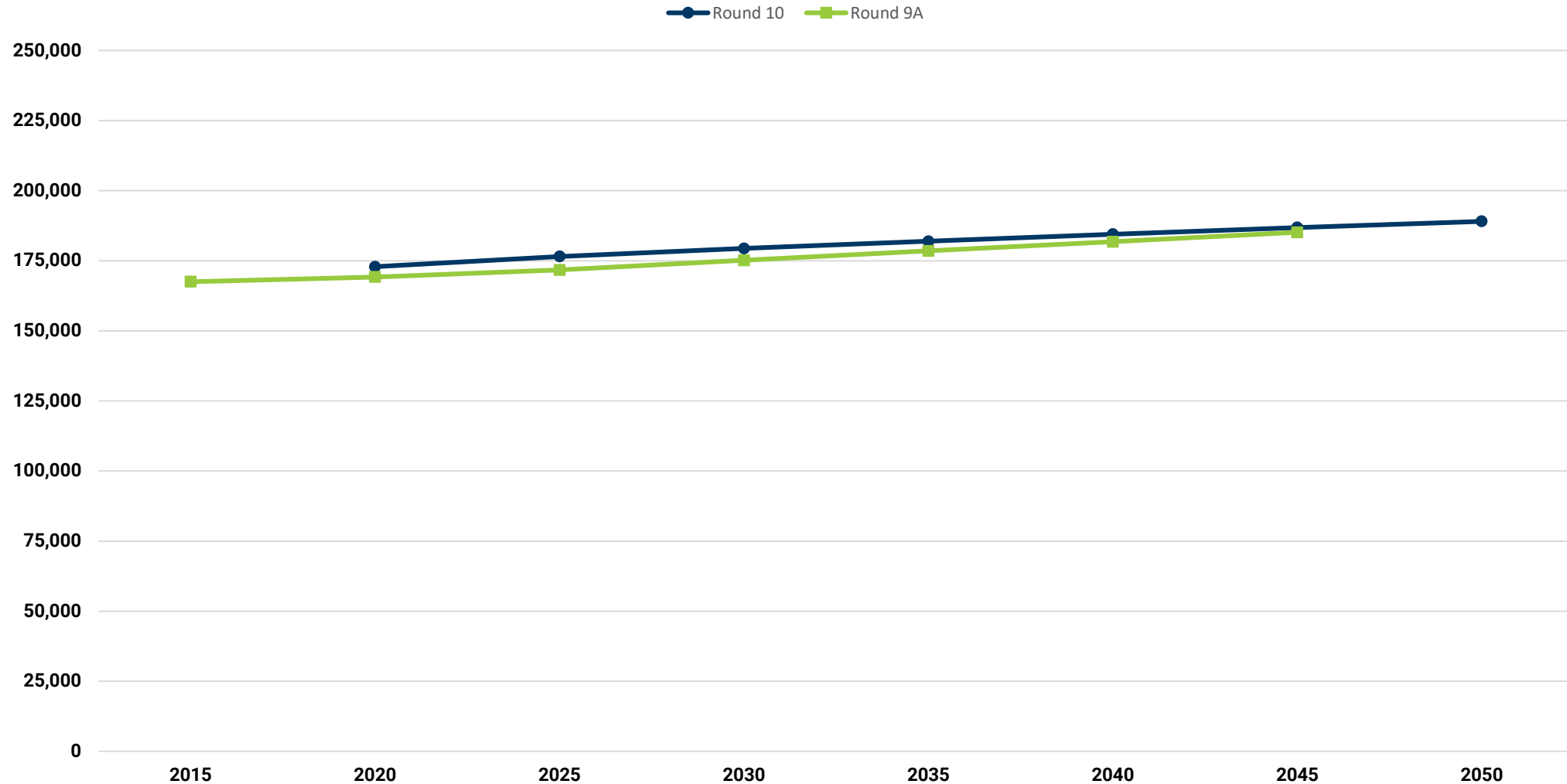
Carroll County

Carroll County Population: Historical Trend and Draft R10 Forecast



Source: U.S. Census Bureau; Cooperative Forecasting Group (Draft Round 10, January 2022); Baltimore Metropolitan Council.

Carroll County Population Comparison: Draft Round 10 & Round 9A

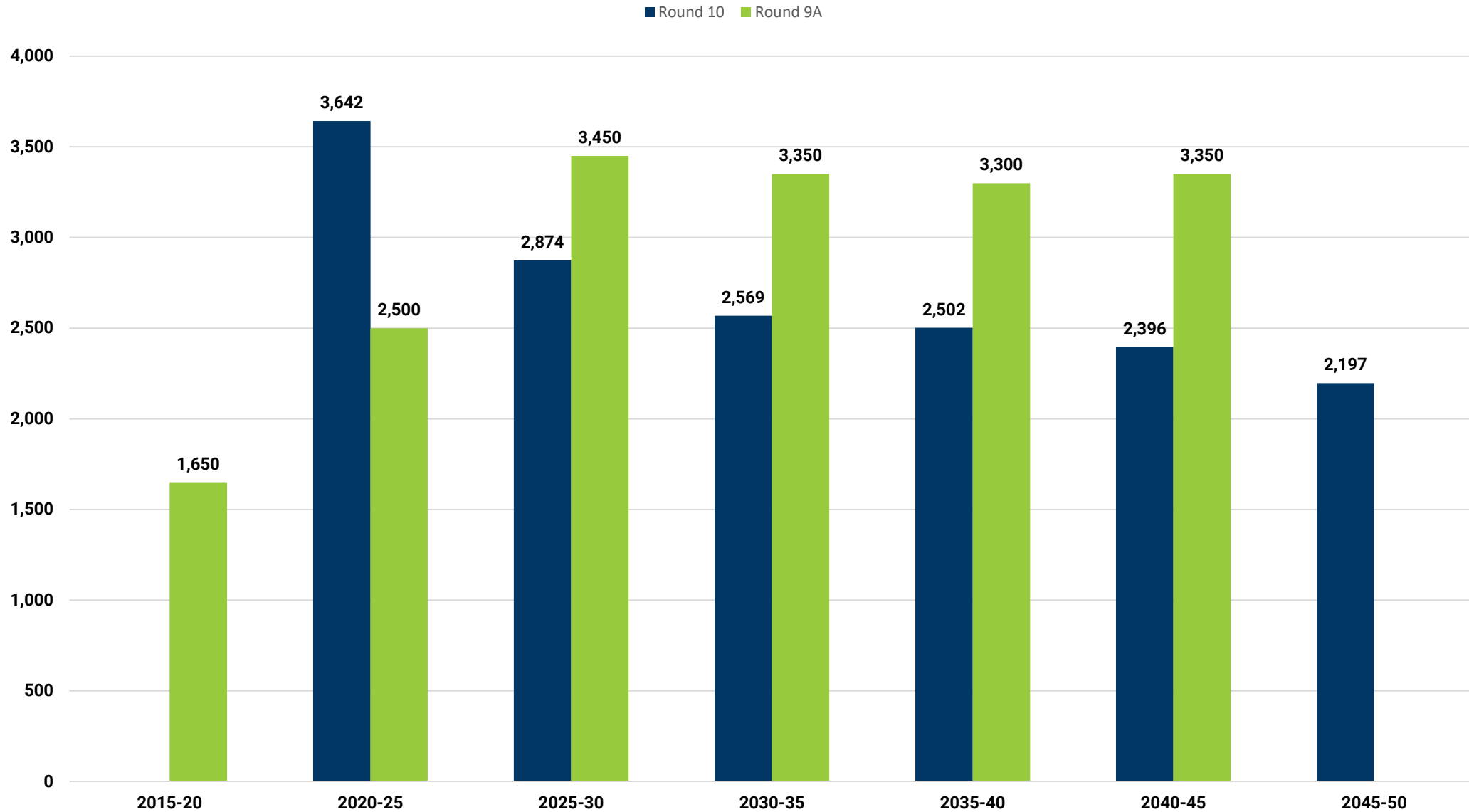


Source: Local jurisdictions; Cooperative Forecasting Group; Baltimore Metropolitan Council.

Population	2015	2020	2025	2030	2035	2040	2045	2050
Round 10	167,550	172,891	176,533	179,407	181,976	184,478	186,874	189,070
Round 9A	167,550	169,200	171,700	175,150	178,500	181,800	185,150	185,150
Chg		3,691	4,833	4,257	3,476	2,678	1,724	
% Chg		2.2%	2.8%	2.4%	1.9%	1.5%	0.9%	

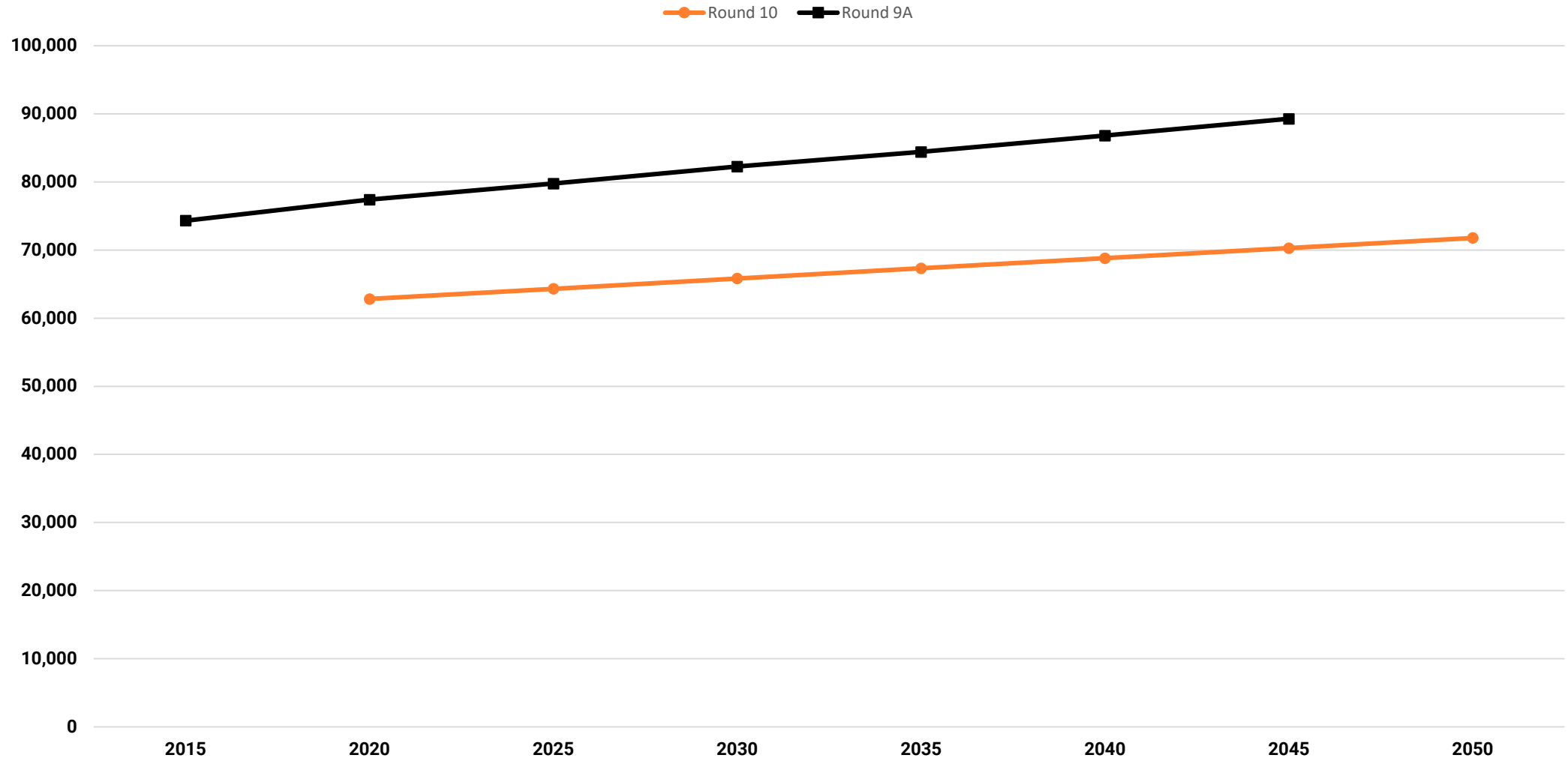


Carroll County Population Growth Comparison: Draft R10 and R9A



Source: Local jurisdictions; Cooperative Forecasting Group; Baltimore Metropolitan Council.

Carroll County Employment Comparison: Draft Round 10 and Round 9A



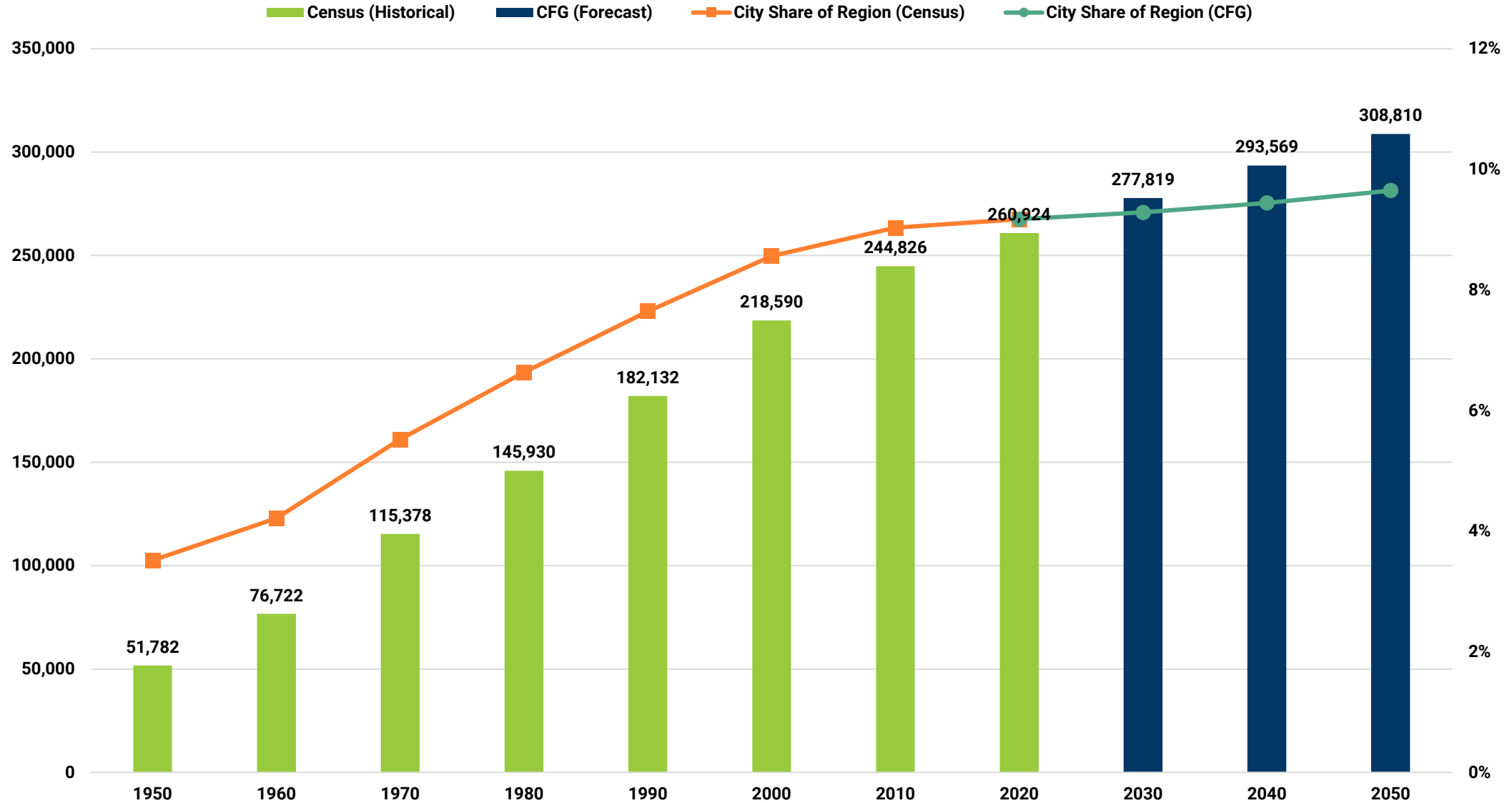
Source: Local jurisdictions: Cooperative Forecasting Group; Baltimore Metropolitan Council.

Employment	2015	2020	2025	2030	2035	2040	2045	2050
Round 10	-	62,814	64,313	65,821	67,319	68,809	70,290	71,789
Round 9A	74,313	77,411	79,760	82,268	84,419	86,815	89,281	-
Chg	-	-14,597	-15,448	-16,448	-17,100	-18,006	-18,991	-
% Chg	-	-18.9%	-19.4%	-20.0%	-20.3%	-20.7%	-21.3%	-



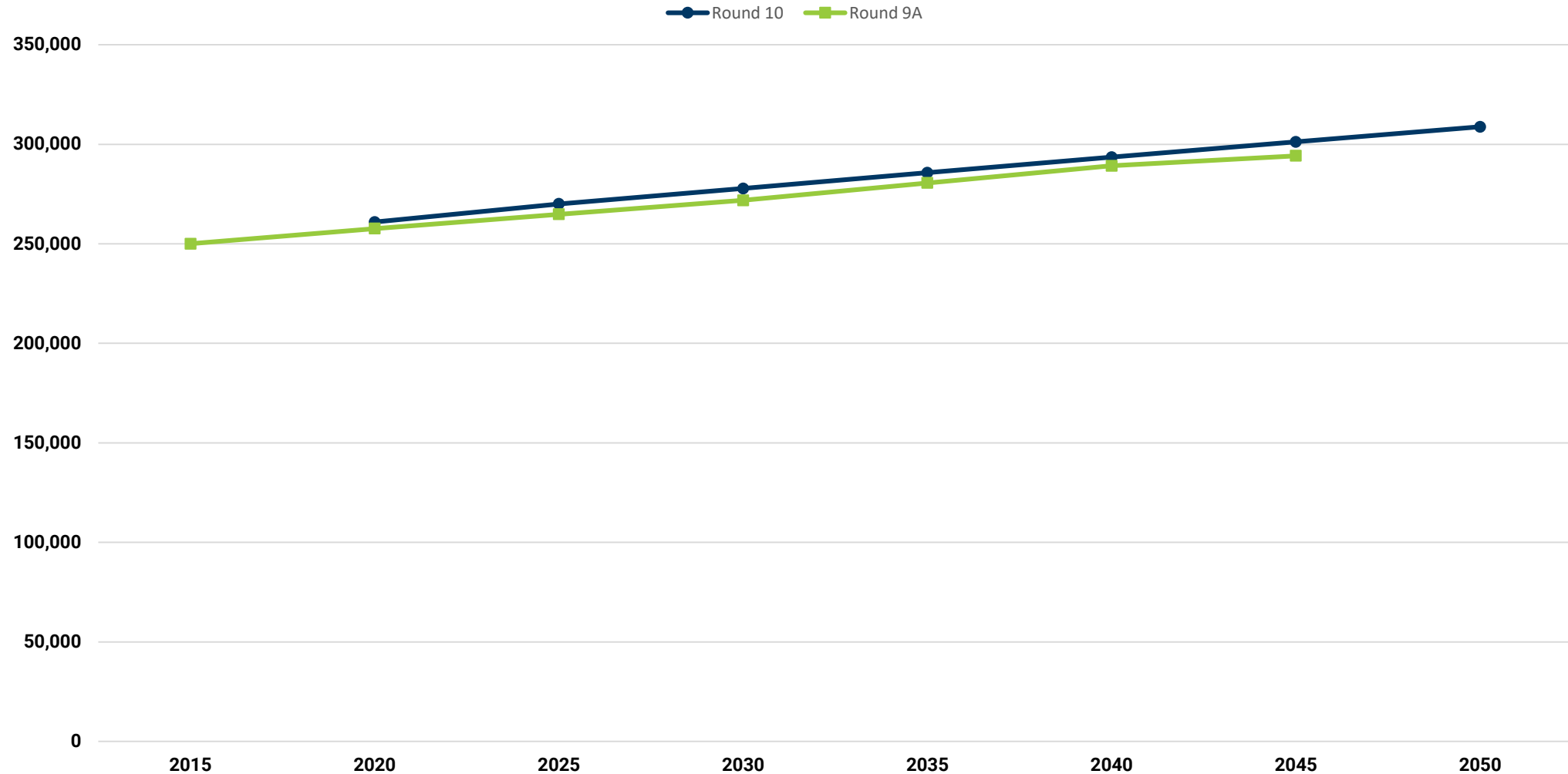
Harford County

Harford County Population: Historical Trend and Draft R10 Forecast



Source: U.S. Census Bureau; Cooperative Forecasting Group (Draft Round 10, January 2022); Baltimore Metropolitan Council.

Harford County Population Comparison: Draft Round 10 & Round 9A

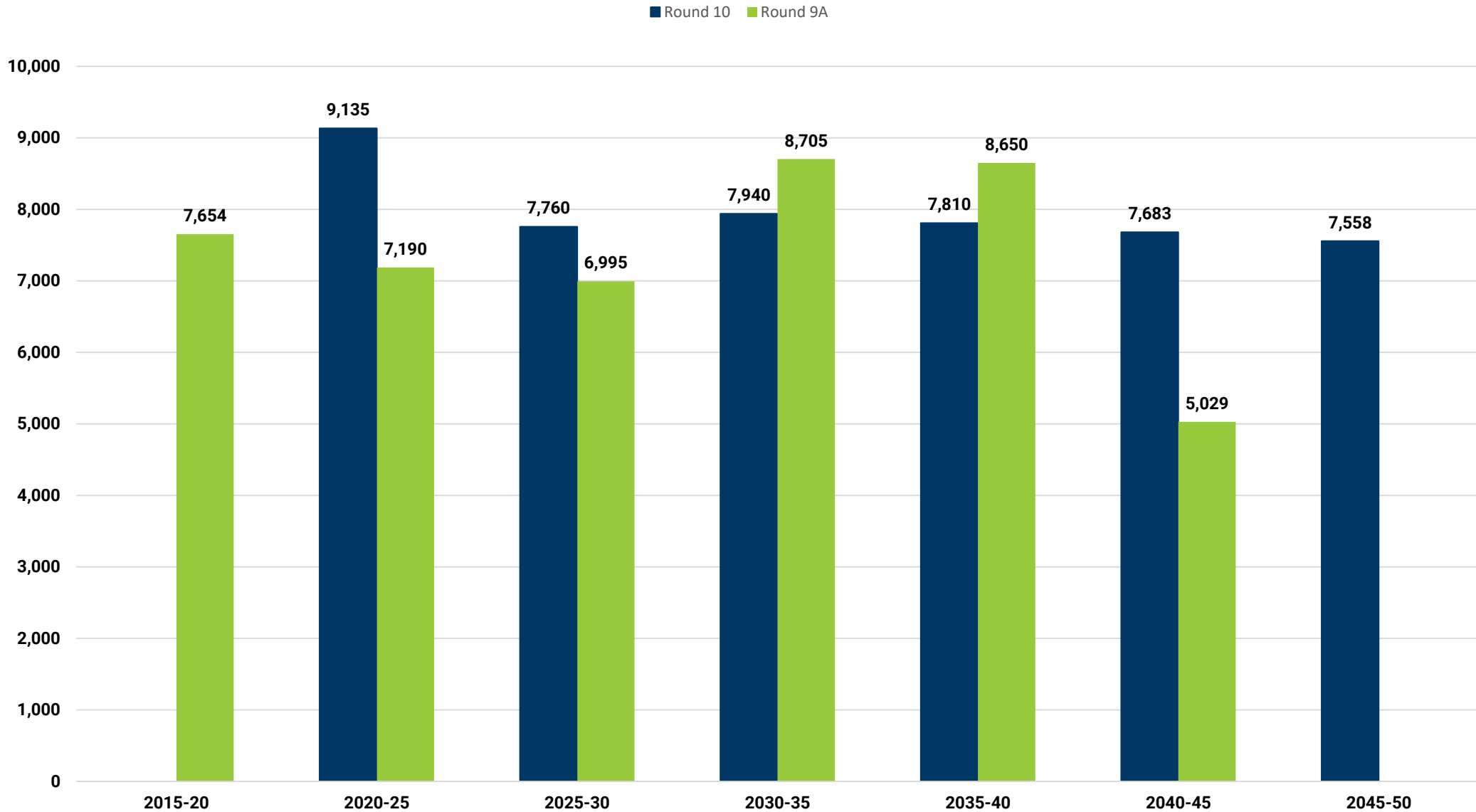


Source: Local jurisdictions: Cooperative Forecasting Group; Baltimore Metropolitan Council.

Population	2015	2020	2025	2030	2035	2040	2045	2050
Round 10	250,025	260,924	270,059	277,819	285,759	293,569	301,252	308,810
Round 9A	250,025	257,680	264,870	271,865	280,570	289,220	294,250	-
Chg	-	3,244	5,189	5,954	5,189	4,349	7,002	-
% Chg	-	1.3%	2.0%	2.2%	1.8%	1.5%	2.4%	-

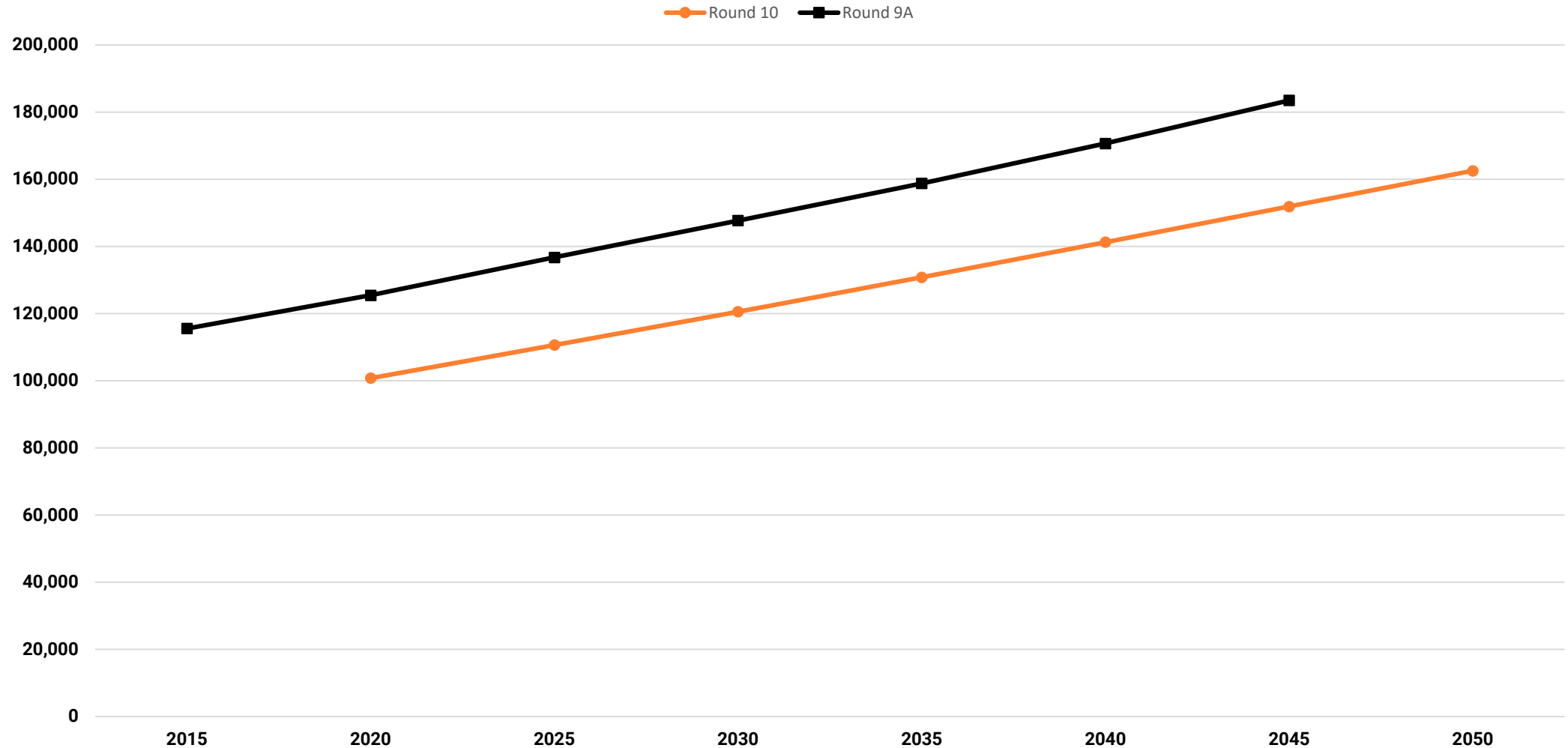


Harford County Population Growth Comparison: Draft R10 and R9A



Source: Local jurisdictions; Cooperative Forecasting Group; Baltimore Metropolitan Council.

Harford County Employment Comparison: Draft Round 10 and Round 9A



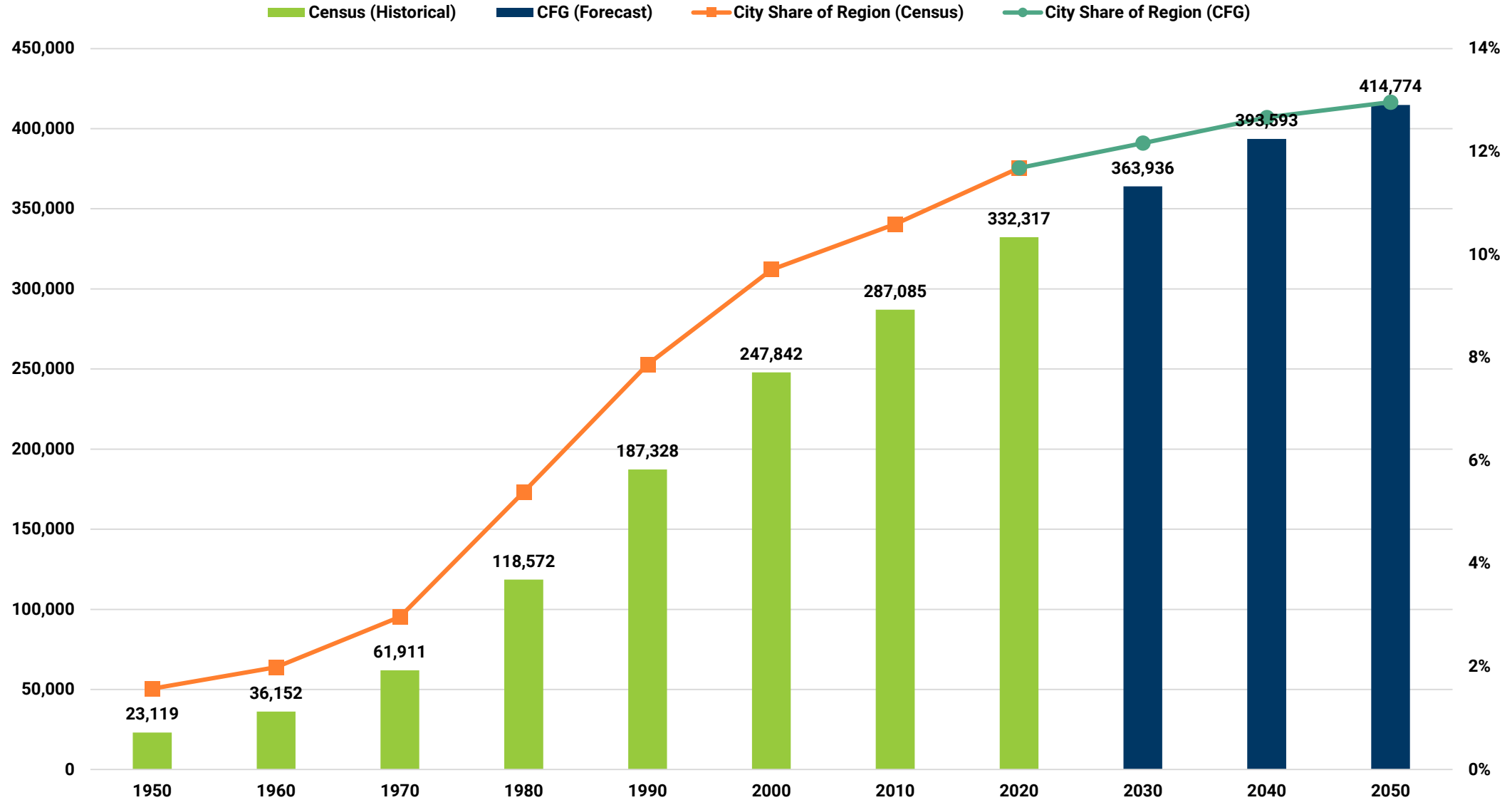
Source: Local jurisdictions: Cooperative Forecasting Group; Baltimore Metropolitan Council.

Employment	2015	2020	2025	2030	2035	2040	2045	2050
Round 10		100,748	110,606	120,560	130,808	141,273	151,868	162,499
Round 9A	115,560	125,454	136,745	147,685	158,761	170,668	183,468	
Chg		-24,706	-26,139	-27,124	-27,953	-29,395	-31,600	
% Chg		-19.7%	-19.1%	-18.4%	-17.6%	-17.2%	-17.2%	



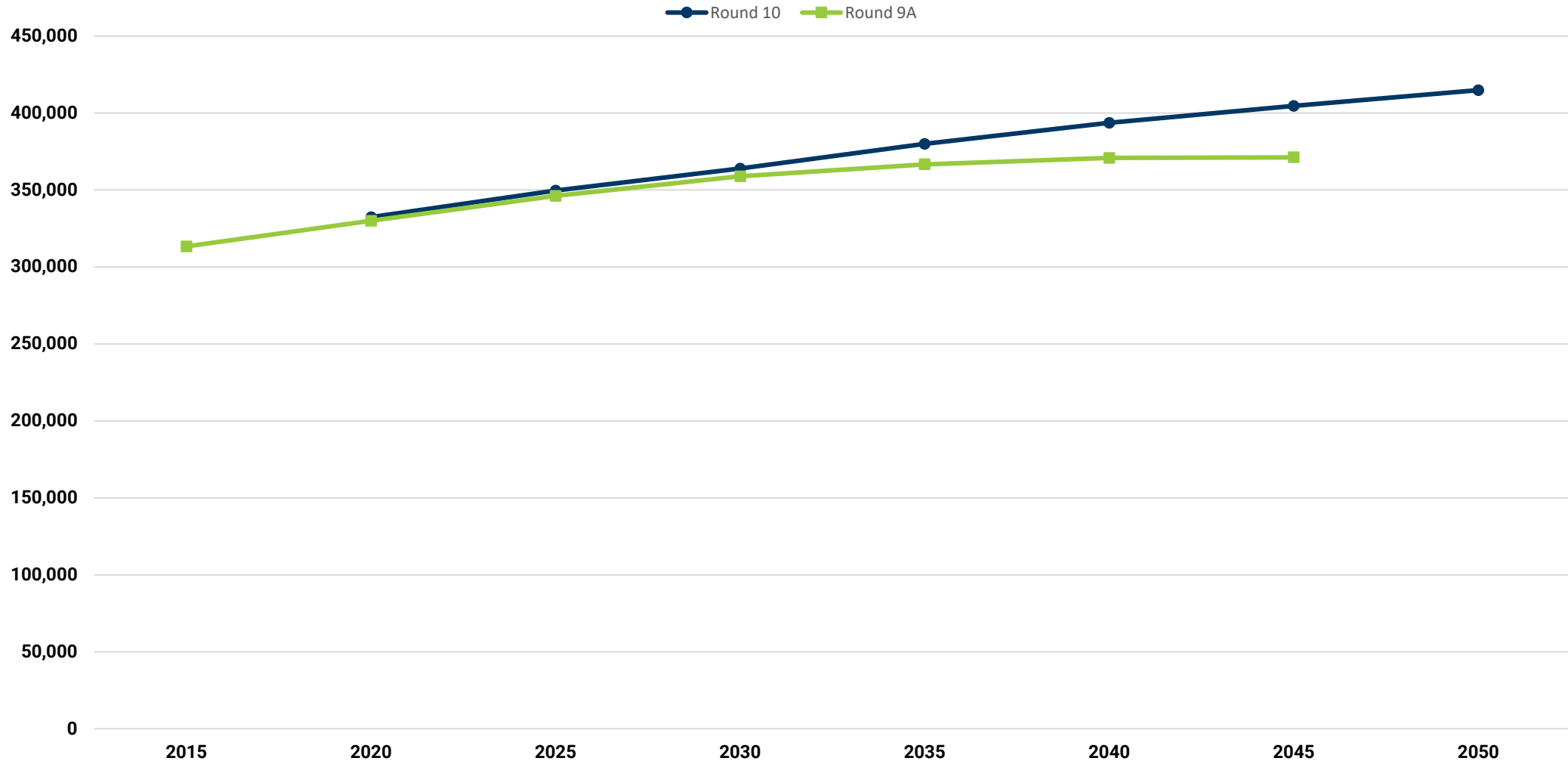
Howard County

Howard County Population: Historical Trend and Draft R10 Forecast



Source: U.S. Census Bureau; Cooperative Forecasting Group (Draft Round 10, January 2022); Baltimore Metropolitan Council.

Howard County Population Comparison: Draft Round 10 & Round 9A

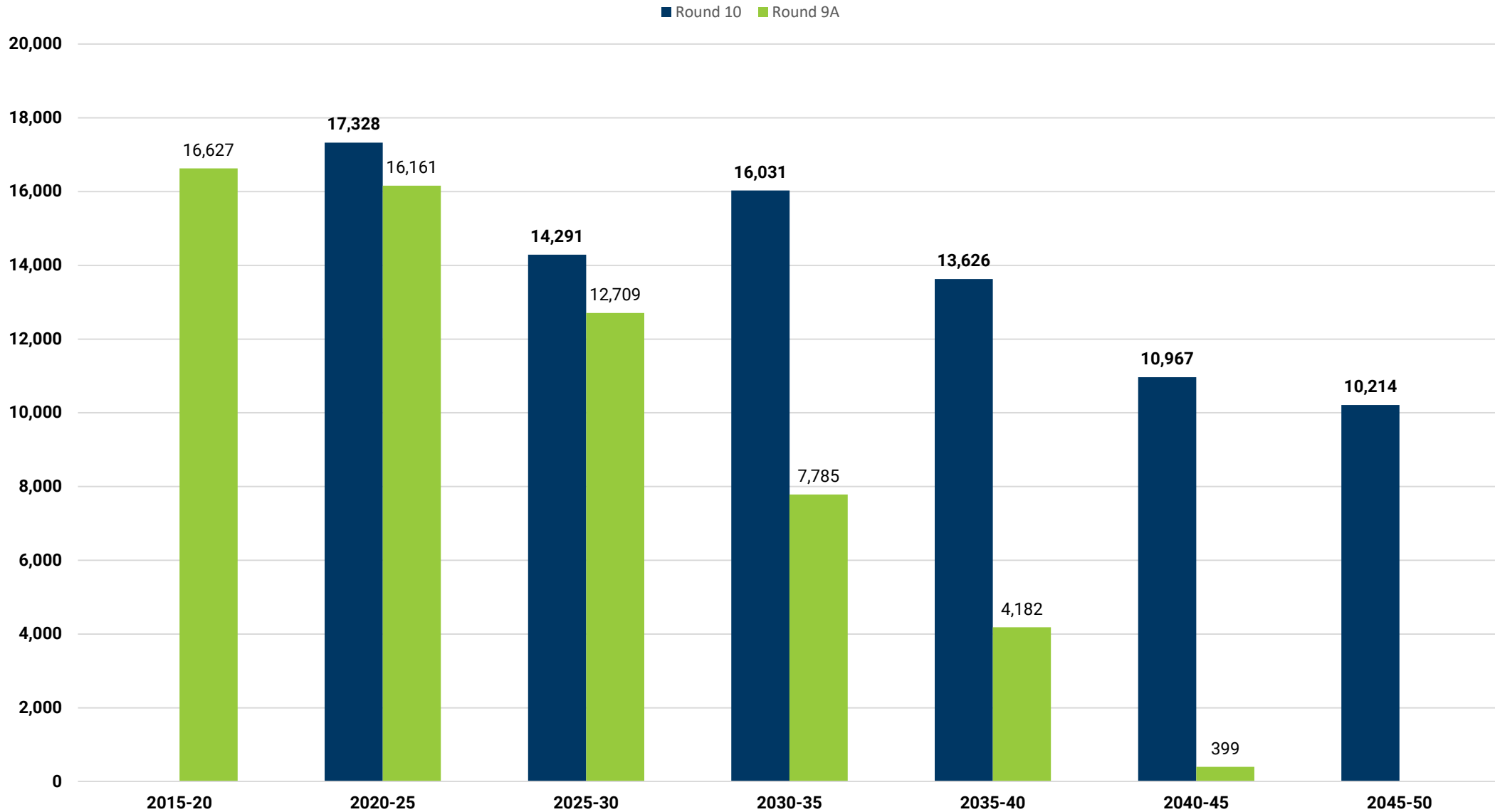


Source: Local jurisdictions; Cooperative Forecasting Group; Baltimore Metropolitan Council.

Population	2015	2020	2025	2030	2035	2040	2045	2050
Round 10	313,359	332,317	349,645	363,936	379,967	393,593	404,560	414,774
Round 9A	313,359	329,986	346,147	358,856	366,641	370,823	371,222	371,222
Chg		2,331	3,498	5,080	13,326	22,770	33,338	
% Chg		0.7%	1.0%	1.4%	3.6%	6.1%	9.0%	

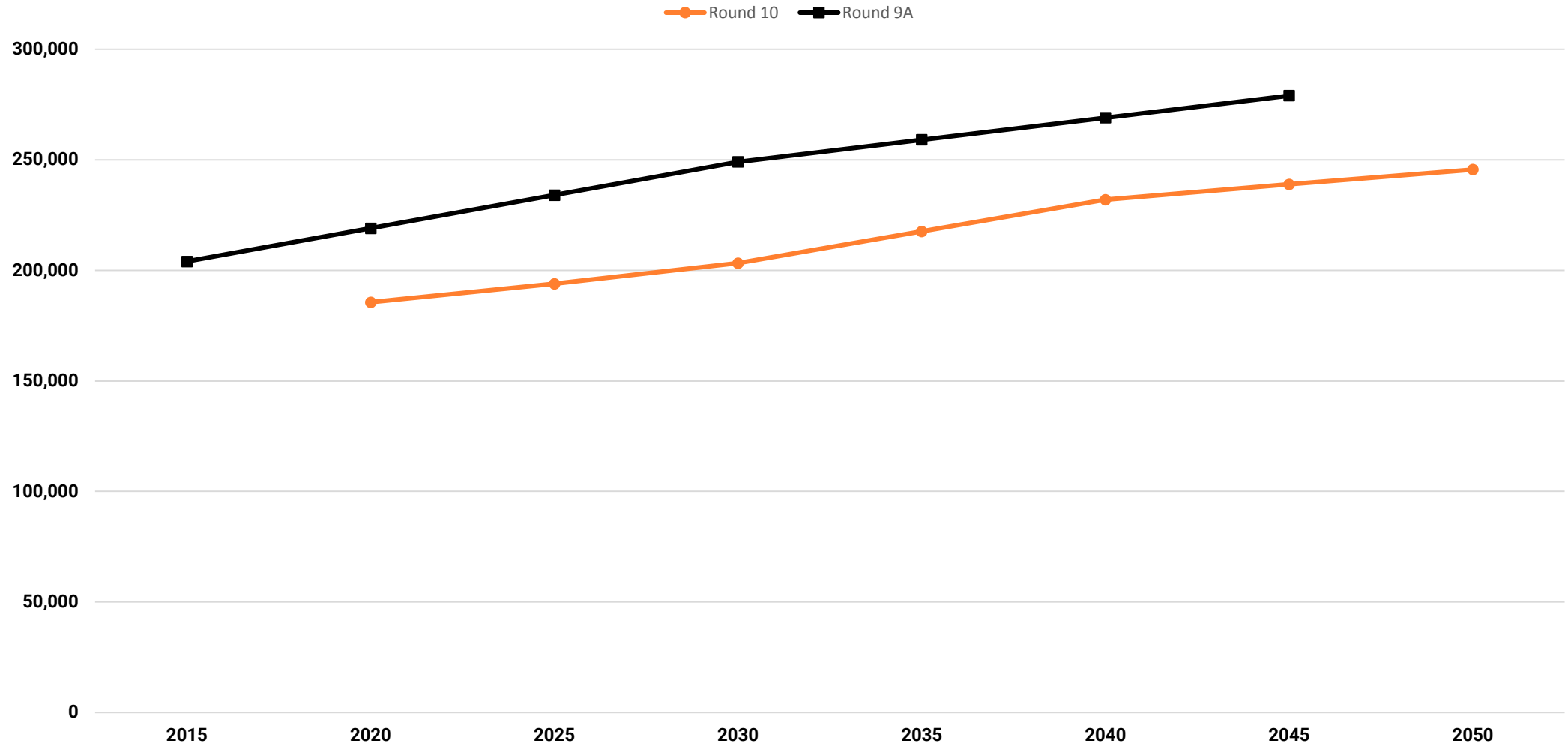


Howard County Population Growth Comparison: Draft R10 and R9A



Source: Local jurisdictions; Cooperative Forecasting Group; Baltimore Metropolitan Council.

Howard County Employment Comparison: Draft Round 10 and Round 9A



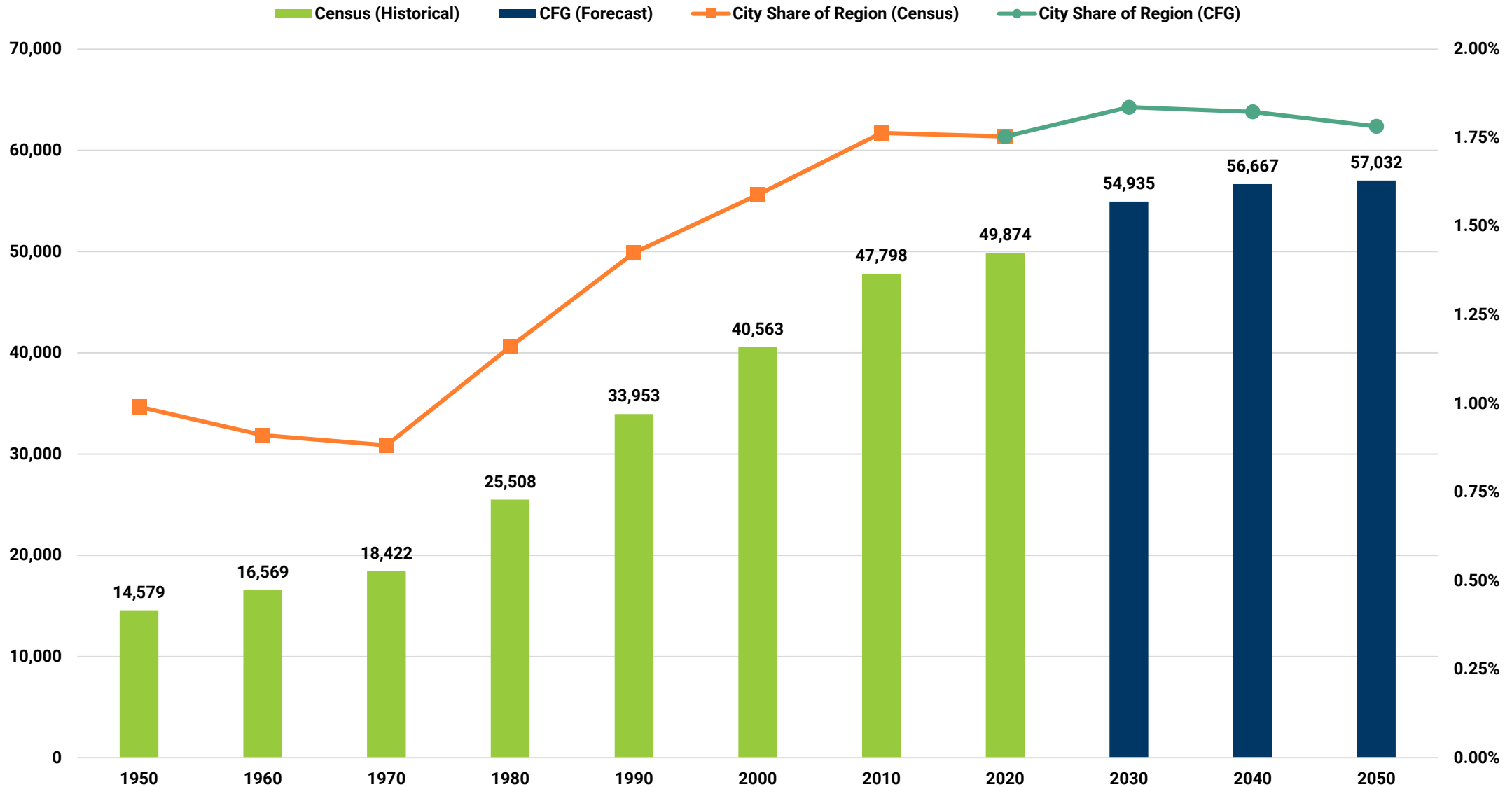
Source: Local jurisdictions: Cooperative Forecasting Group; Baltimore Metropolitan Council.

Employment	2015	2020	2025	2030	2035	2040	2045	2050
Round 10	-	185,600	193,976	203,284	217,619	231,970	238,935	245,600
Round 9A	204,050	219,050	234,050	249,050	259,050	269,050	279,050	-
Chg	-	-33,450	-40,074	-45,766	-41,431	-37,080	-40,115	-
% Chg	-	-15.3%	-17.1%	-18.4%	-16.0%	-13.8%	-14.4%	-



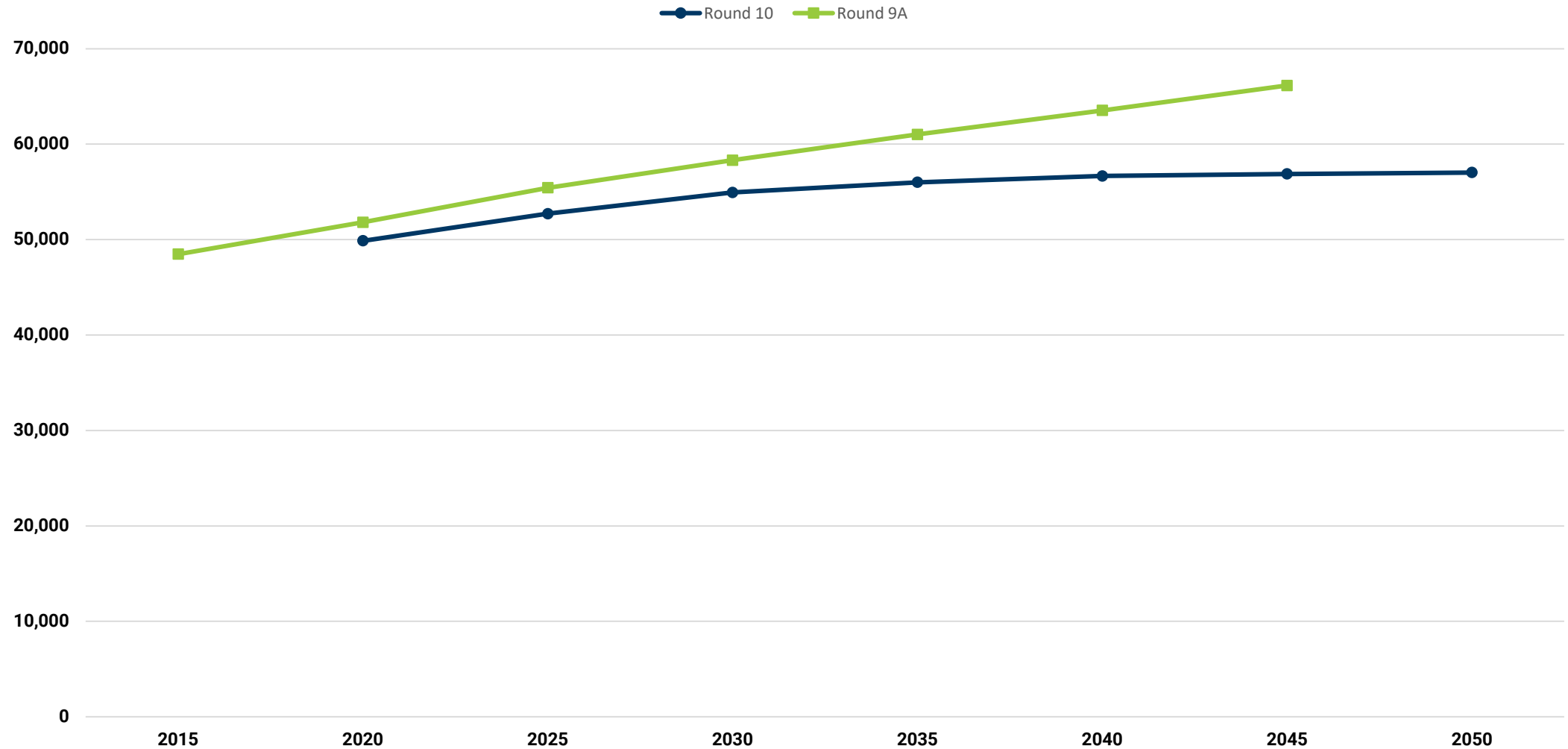
Queen Anne's County

Queen Anne's County Population: Historical Trend & Draft R10 Forecast



Source: U.S. Census Bureau; Cooperative Forecasting Group (Draft Round 10, January 2022); Baltimore Metropolitan Council.

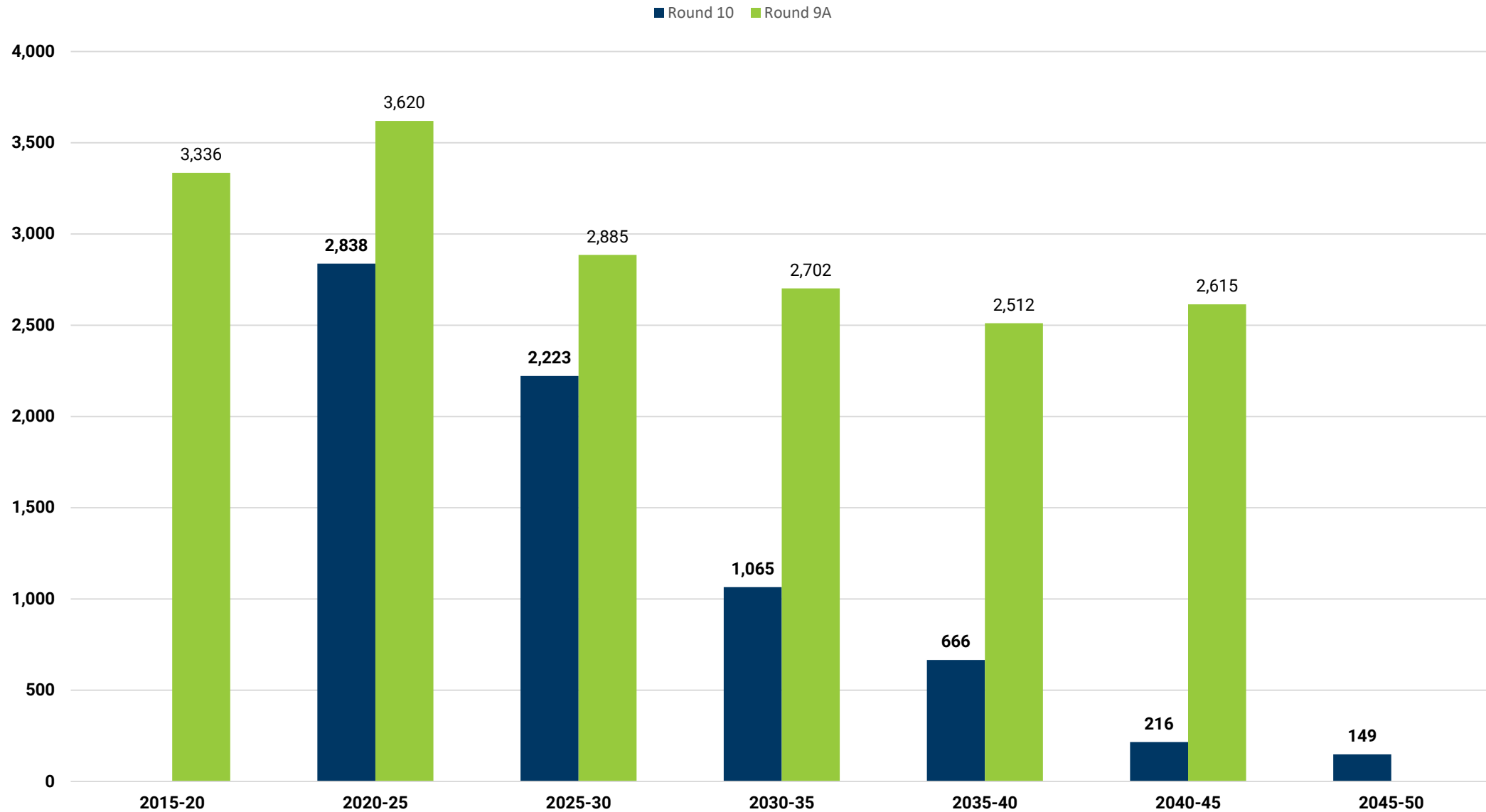
Queen Anne's County Population Comparison: Draft Round 10 & Round 9A



Source: Local jurisdictions; Cooperative Forecasting Group; Baltimore Metropolitan Council.

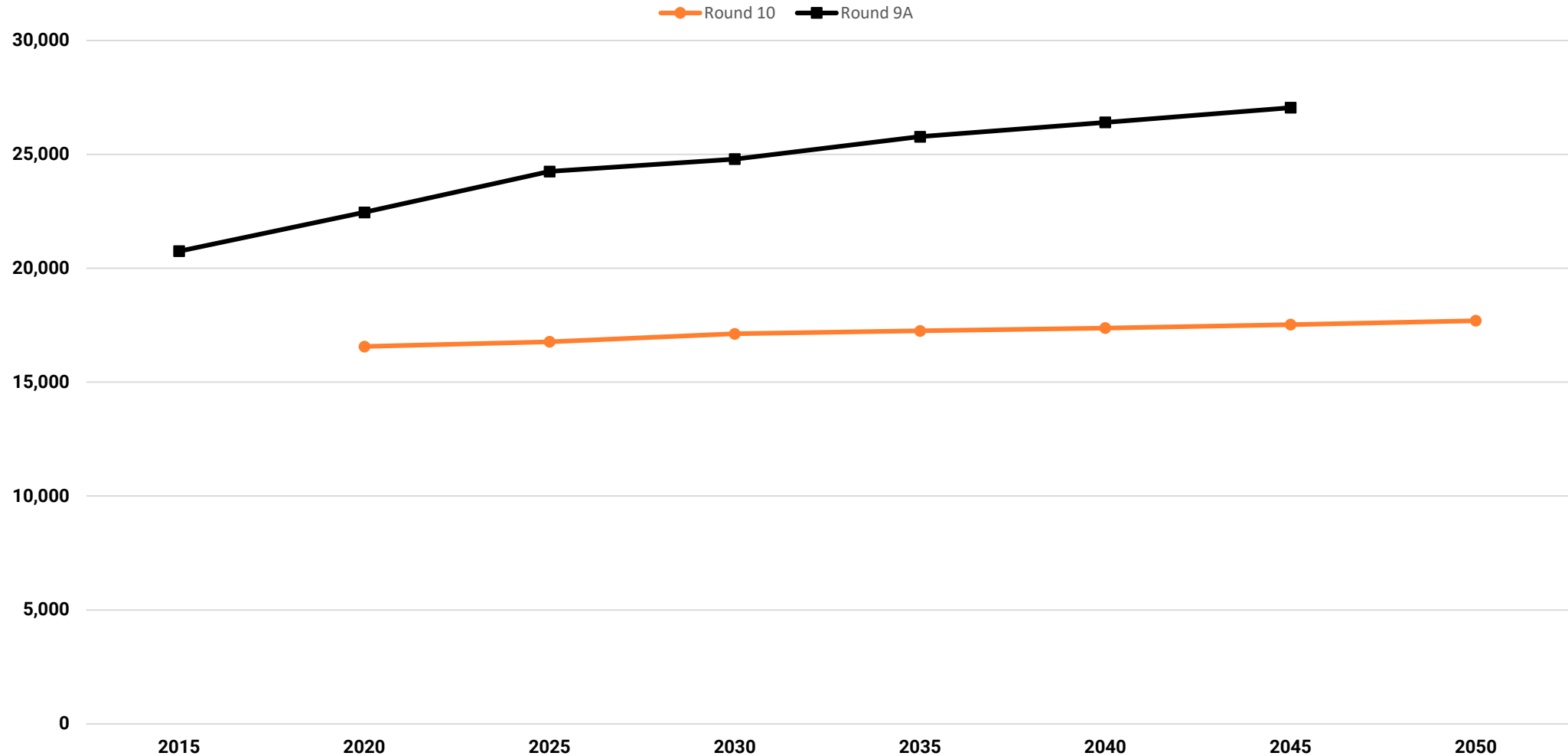
Population	2015	2020	2025	2030	2035	2040	2045	2050
Round 10	49,874	52,712	54,935	56,000	56,667	56,883	57,032	
Round 9A	48,477	51,813	55,434	58,319	61,021	63,533	66,148	
Chg		-1,939	-2,722	-3,384	-5,021	-6,866	-9,265	
% Chg		-3.7%	-4.9%	-5.8%	-8.2%	-10.8%	-14.0%	

Queen Anne's County Population Growth Comparison: Draft R10 & R9A



Source: Local jurisdictions; Cooperative Forecasting Group; Baltimore Metropolitan Council.

Queen Anne's County Employment Comparison: Draft Round 10 & Round 9A



Source: Local jurisdictions; Cooperative Forecasting Group; Baltimore Metropolitan Council.

Employment	2015	2020	2025	2030	2035	2040	2045	2050
Round 10		16,562	16,775	17,125	17,250	17,375	17,525	17,700
Round 9A	20,748	22,454	24,251	24,790	25,778	26,406	27,050	
Chg		-5,892	-7,476	-7,665	-8,528	-9,031	-9,525	
% Chg		-26.2%	-30.8%	-30.9%	-33.1%	-34.2%	-35.2%	



Next Steps: Approvals and Methodology Statements

Round 10 – Approval Process

- Cooperative Forecasting Group
 - April 2022
- Technical Committee
 - May 2022?
- Baltimore Regional Transportation Board
 - June / July 2022?

Round 10 – Approval Process

– Brief Your Jurisdiction’s Technical Committee Member on Round 10 (Prior to May 3 TC Mtg)

- Anne Arundel – Brian Ulrich
- Baltimore City – Graham Young
- Baltimore County – Angelica Daniel
- Carroll County – Mary Lane
- Harford County – Joel Gallihue
- Howard County – David Cookson
- Queen Anne’s County – Steve Cohoon

Round 10 – Methodology Statements

Purpose: Methodology statement should provide a detailed explanation of the sources and methods utilized in the development of your jurisdictional and TAZ level base-year estimates and forecasts (in 5-year increments) from 2020 through 2050.

Due: April 30

Key Elements:

- Policy Documents

- What policy documents informed the forecasts?
 - What are the dates of the most recently adopted General Plans & Zoning Code updates?
- Are the submitted forecasts in alignment with General Plan / Zoning Code?

- Pandemic Impacts

- Was the COVID-19 pandemic factored into the estimates and/or forecasts?
 - If so, which datapoints – and how were pandemic impacts accounted for?

Round 10 – Methodology Statements

- **Population and Households at Jurisdictional and TAZ Levels**

- **Sources:** What sources were used in the development of population and HH forecasts?
 - Census Data (If yes, which products, for which datapoints, and how used? AvgHHSz?)
 - Residential / Site Development - Plan Review (known/planned development activity)
 - Zoning / Land Use maps / database
 - General Plan / Comprehensive Plan
- **Methodology:** Provide a detailed description of the methods used to develop the base-year estimates and the short-term & long-term forecasts
 - How were base-year estimates produced?
 - What were the steps in producing jurisdiction and TAZ level forecasts?
 - What data/assumptions were used to develop short-term growth forecasts?
 - What data/assumptions were used to develop long-term growth forecasts?

Round 10 – Methodology Statements

- **Employment at Jurisdictional and TAZ levels**

- **Sources:** What sources were used in the development of employment estimates and forecasts?
 - Federal / State Sources: QCEW (and MEF); ACS; BEA Wage and Salary Employment
 - Commercial Site Development - Plan Review (known/planned development activity)
 - Zoning / Land Use maps / database
 - General Plan / Comprehensive Plan
- **Methodology:** Provide a detailed description of the methods used to develop the base-year estimates and the short-term & long-term forecasts
 - How were base-year estimates produced?
 - CFG Base-year employment methodology (for jurisdiction)
 - Allocation: How was base-year employment allocated to TAZ?
 - What were the steps in producing jurisdiction and TAZ level forecasts?
 - What data/assumptions were used to develop short-term growth forecasts?
 - What data/assumptions were used to develop long-term growth forecasts?

Round 10 – Methodology Statements

- **Additional Supporting Documentation**

- Provide an explanation for considerable deviation from known markers (at Jurisdiction and/or TAZ levels)
 - For example: Do the estimates differ from 2020 decennial census data? If so, why?
- Provide notes in cases where there are significant differences between DRAFT Round 10 and Round 9A (at Jurisdiction and/or TAZ levels)
- Provide notes on projects that have (or are expected to have) substantial impacts on population, households, or employment at the Jurisdiction and/or TAZ levels
 - Where a TAZ shows major growth in the Round 10 dataset for any of the provided datapoints, please provide some clarification regarding what is driving the expected change
- The TAZ level spreadsheet analysis provided to each jurisdiction can help to identify cases that might benefit from additional explanation in your Methodology Statement submission (Due by April 30)

For More Information

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