Draft Round 10 – Brief Overview

Metropolitan Washington Council of Governments - CFDS

October 11, 2022

CFG – Data / Process Overview

– Datapoints Submitted by CFG:

- Population
- GQ Population
- Households
- Employment

– "Bottom-up" Approach

– Forecast Rounds by Date:

Round	Date	Round	Date
Round 1	March 1980	Round 6B	August 2005
Round 2	February 1983	Round 6C	October 2006
Round 3	September 1986	Round 7	February 2007
Round 3A	December 1988	Round 7A	August 2008
Round 4	September 1991	Round 7B	July 2009
Round 5	September 1994	Round 7C	July 2010
Round 5A	October 1997	Round 8	August 2013
Round 5B	December 2000	Round 8A	June 2014
Round 5C	May 2001	Round 8B	August 2016
Round 5D	August 2002	Round 9	June 2018
Round 6	December 2003	Round 9A	July 2020
Round 6A	December 2004	Round 10	July 2022

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Round 10 – Factors/Points of Consideration

- The Pandemic
  - Timing, inclusion of impacts in the estimates, and data considerations
- New Jurisdiction Level Base-year Employment Methodology
- New Base-year, New Horizon Year
- New TAZ Structure
- 2020 Decennial Census

Round 10 Cooperative Forecasts – Work Schedule

DRAFT: Cooperative Forecasts - Data Availability and Round 10 Schedule

Tasks	2020 May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2021 Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2022 Jan	Feb	Mar	Apr	May	Jun	Jul
EMPLOYMENT DATA																											
Consider alternate employment base year estimate methodology	▓	▓	▓	▓	▓	▓	▓	▓	▓																		
Data Release Dates																											
BEA Employment Data (Annual, CA27N)							2019												2020								
QCEW																					F					M	
2Q (2019) Geocode / Clean				▓	▓	▓	▓	▓	▓	▓	▓	▓	▓								O					O	
1Q (2020)					▓																R					D	
2Q (2020)							▓														E					E	
3Q (2020)										▓											C					L	
4Q (2020)												▓									A						
																					S					I	
ACS 1-Year dataset (for self-employment estimates)					2019											2020					T					N	
																					S					P	
Acquire Third-party Employment Data Projections?																										U	
IHS Global													?	?							S					T	
Maryland Department of Planning													?	?							U					S	
Other													?	?							B						
																					M					C	
DEMOGRAPHIC DATA - 2020 CENSUS & POPULATION ESTIMATES																					I					O	
																					T					M	
Population Estimates Program Data Release													▓								T					P	
Decennial Census Data																					E					L	
Total Population																▓	▓				D					E	
Households																▓	▓									T	
Group Quarters Population																▓	▓				Jan					E	
Data Aggregated to 2020 TAZ Structure																▓	▓				15						

Legend:

Source data becomes available	(orange)
BMC staff task	(blue)
CFG membership task	(green)
BMC staff and CFG membership task	(teal)

Vertical text (Jan 2022 column): **FORECASTS SUBMITTED — Jan 15**
Vertical text (Jun 2022 column): **MODEL INPUTS COMPLETE**

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Round 10 Cooperative Forecasts – Work Schedule (continued…)

DRAFT: Cooperative Forecasts - Data Availability and Round 10 Schedule

Tasks	2020								2021												2022						
	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
TAZ DELINEATION AND FORECAST DEVELOPMENT																											
Jurisdictional Level Base Year Employments Developed														▓	▓												
TAZ Delineation											▓	▓	▓	▓							F / O / R / E / C / A / S / T / S / U / B / M / I / T / T / E / D / Jan 15					M / O / D / E / L / I / N / P / U / T / S / C / O / M / P / L / E / T / E	
Jurisdictional Level Totals																											
Population																	▓	▓									
Households																	▓	▓									
Employment																	▓	▓									
TAZ Level Data																											
Population																	▓	▓	▓	▓							
GQ Population																	▓	▓	▓	▓							
Households																	▓	▓	▓	▓							
Employment																▓	▓	▓	▓	▓							
FORECAST REVIEW AND MODEL INPUT DEVELOPMENT																											
BMC Staff Review (TAZ level)																						▓	▓				
Jurisdiction Submits Final Adjustments (as needed)																							▓	▓			
Jurisdiction Round 10 Methodology Statements Due to BMC																								▓			
BMC Staff Creates Model Inputs																								▓			
Round 10 Endorsed by BRTB																											▓

Legend:
- Source data becomes available
- BMC staff task
- CFG membership task
- BMC staff and CFG membership task

Round 10 Cooperative Forecasts - Links

- Round 10 Data is available on BMC website
  - https://www.baltometro.org/community/planning-areas/demographic-socioeconomic-forecasting
- Additional Round 10 Summary Information
  - https://www.baltometro.org/sites/default/files/bmc_documents/committee/presentations/tc/TC220706pres_Draft-Round-10-Summary.pdf

For More Information

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Round 10 Cooperative Forecasts – Jurisdiction Level Summary

Round 10 Population

JURISDICTION	2020	2025	2030	2035	2040	2045	2050	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	594,526	596,393	596,916	599,216	603,436	609,776	10,685	2,823	10,560	24,068	1.8%	0.5%	1.8%	4.1%
Baltimore County	854,523	868,112	876,726	894,541	909,000	920,275	934,521	22,203	32,275	25,520	79,998	2.6%	3.7%	2.8%	9.4%
Carroll County	172,891	176,399	179,140	181,580	183,956	186,253	188,357	6,249	4,816	4,401	15,466	3.6%	2.7%	2.4%	8.9%
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	349,697	363,987	380,016	393,641	404,607	414,820	31,670	29,654	21,179	82,503	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	2,848,932	2,933,192	2,995,213	3,059,026	3,113,473	3,159,824	3,207,550	146,281	118,260	94,077	358,618	5.1%	3.9%	3.0%	12.6%

Round 10 Households

JURISDICTION	2020	2025	2030	2035	2040	2045	2050	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	256,061	260,349	16,810	14,802	8,766	40,378	7.6%	6.3%	3.5%	18.4%
Baltimore City	251,479	258,233	260,583	262,036	264,323	267,459	271,532	9,104	3,740	7,209	20,053	3.6%	1.4%	2.7%	8.0%
Baltimore County	329,955	334,975	338,408	345,501	351,261	355,753	361,428	8,453	12,853	10,167	31,473	2.6%	3.8%	2.9%	9.5%
Carroll County	63,050	64,455	65,595	66,670	67,701	68,709	69,704	2,545	2,106	2,003	6,654	4.0%	3.2%	3.0%	10.6%
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	1,100,758	1,135,064	1,161,643	1,191,444	1,217,960	1,241,029	1,265,686	60,885	56,317	47,727	164,928	5.5%	4.8%	3.9%	15.0%

Round 10 Employment

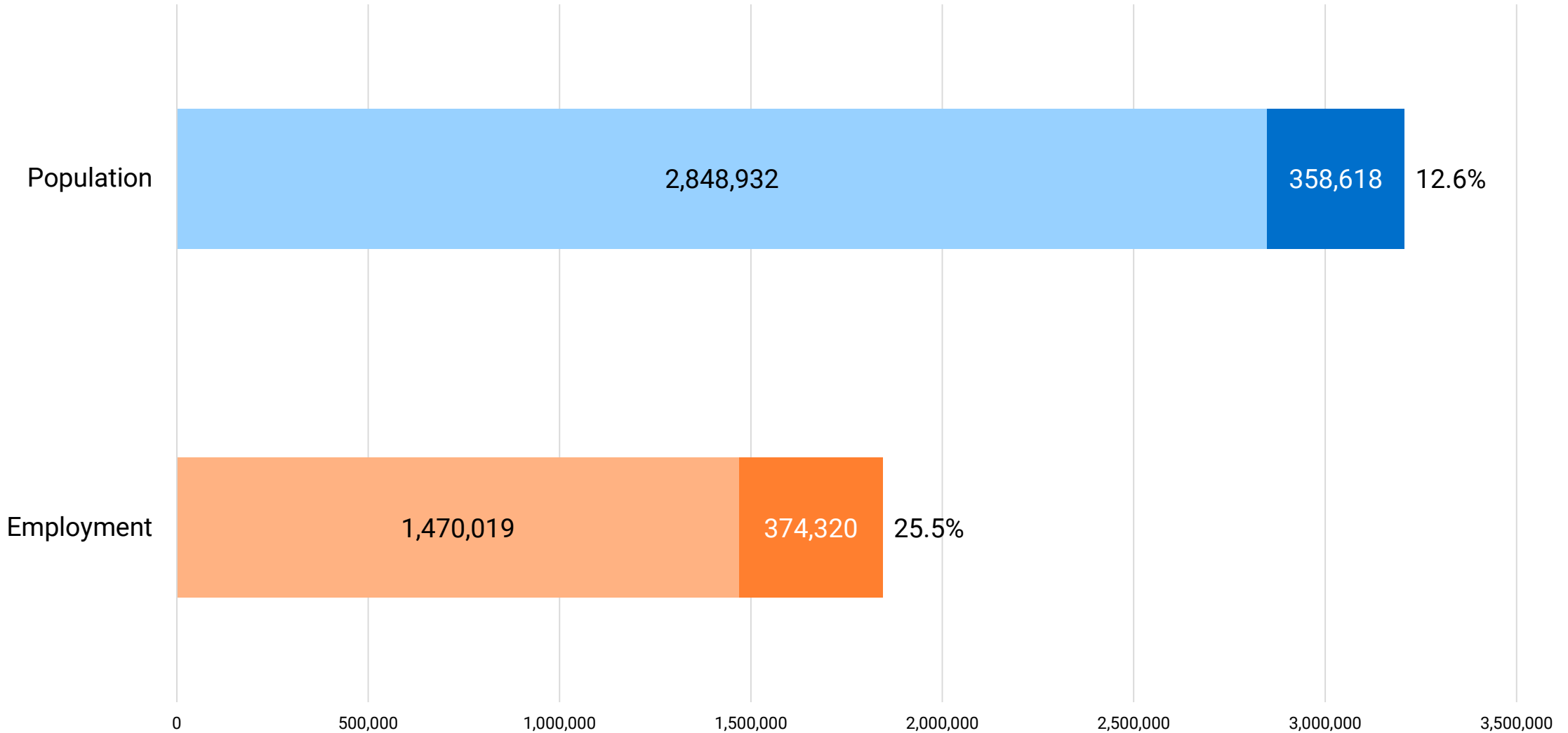| JURISDICTION	2020	2025	2030	2035	2040	2045	2050	2020-2030	2030-2040	2040-2050	2020-2050	2020-2030	2030-2040	2040-2050	2020-2050
Anne Arundel County	340,555	375,489	389,833	404,256	419,012	434,725	451,505	49,278	29,179	32,493	110,950	14.5%	7.5%	7.8%	32.6%
Baltimore City	365,047	377,443	396,188	413,808	430,379	446,685	450,996	31,141	34,191	20,617	85,949	8.5%	8.6%	4.8%	23.5%
Baltimore County	398,693	411,260	425,058	428,306	434,620	441,159	444,251	26,365	9,562	9,631	45,558	6.6%	2.2%	2.2%	11.4%
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	1,549,862	1,617,869	1,679,367	1,743,438	1,801,187	1,844,339	147,850	125,568	100,902	374,320	10.1%	7.8%	5.8%	25.5%

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

Note: Forecasts endorsed by the Baltimore Regional Transportation Board on July 15, 2022.

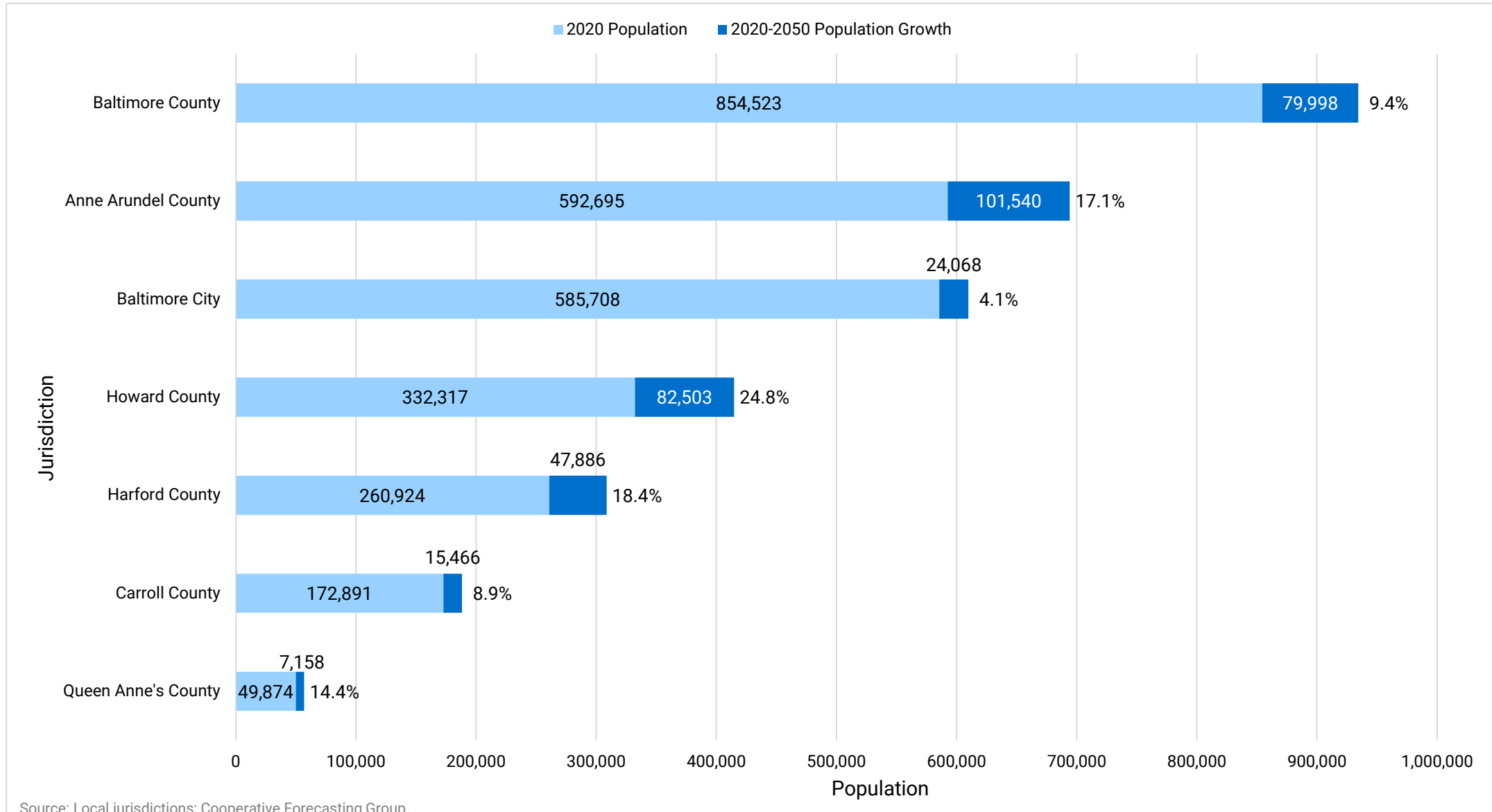Source: Local jurisdictions; Cooperative Forecasting Group.

Round 10 Cooperative Forecasts – Baltimore Region

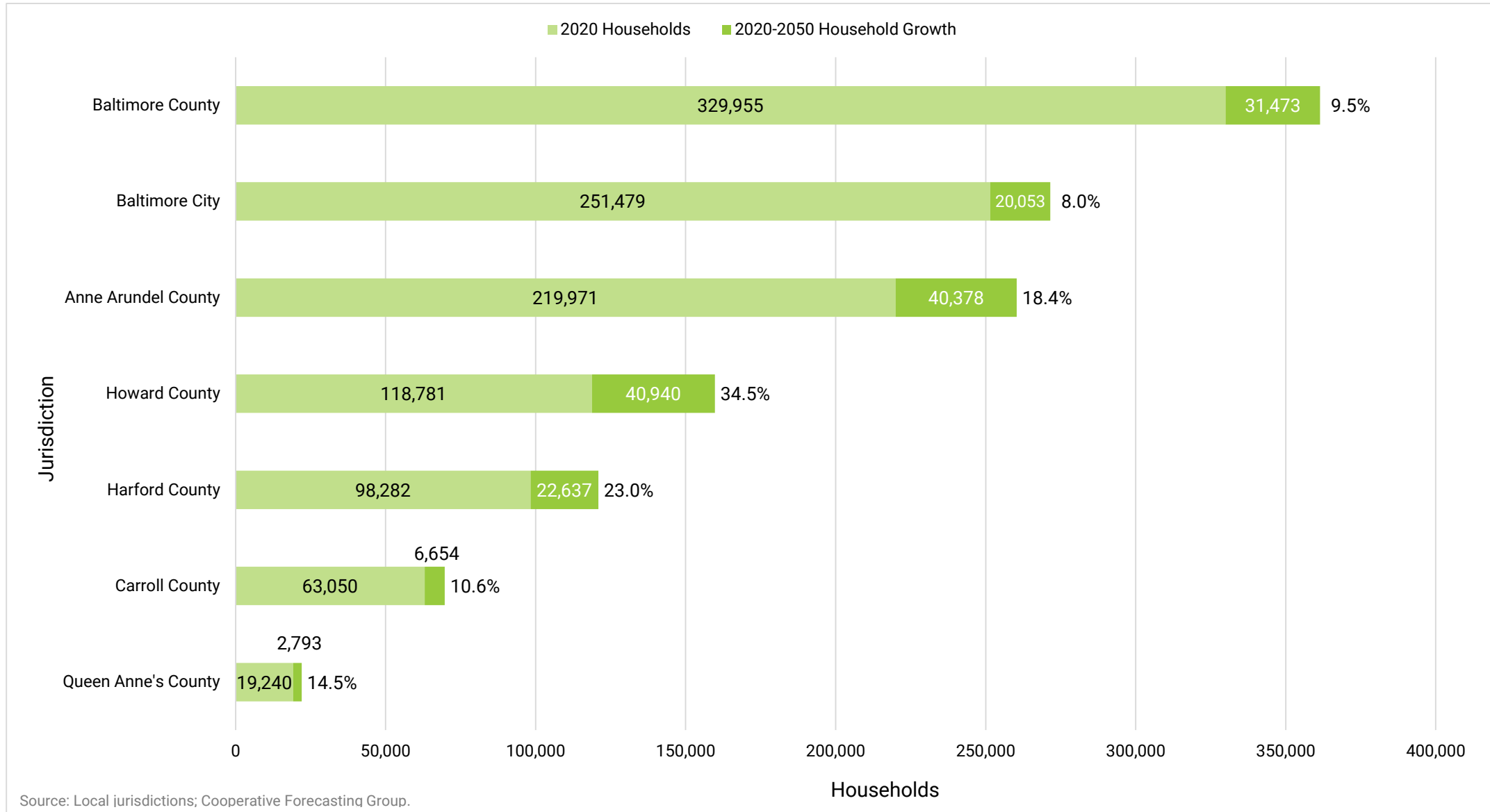Round 10: Population and Employment Base (2020), Growth (2020-2050), & Pct Growth

Population: 2,848,932 | 358,618 | 12.6%

Employment: 1,470,019 | 374,320 | 25.5%

Source: Local jurisdictions; Cooperative Forecasting Group.

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Round 10 Cooperative Forecasts – Population

Source: Local jurisdictions; Cooperative Forecasting Group.

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Round 10 Cooperative Forecasts – Households

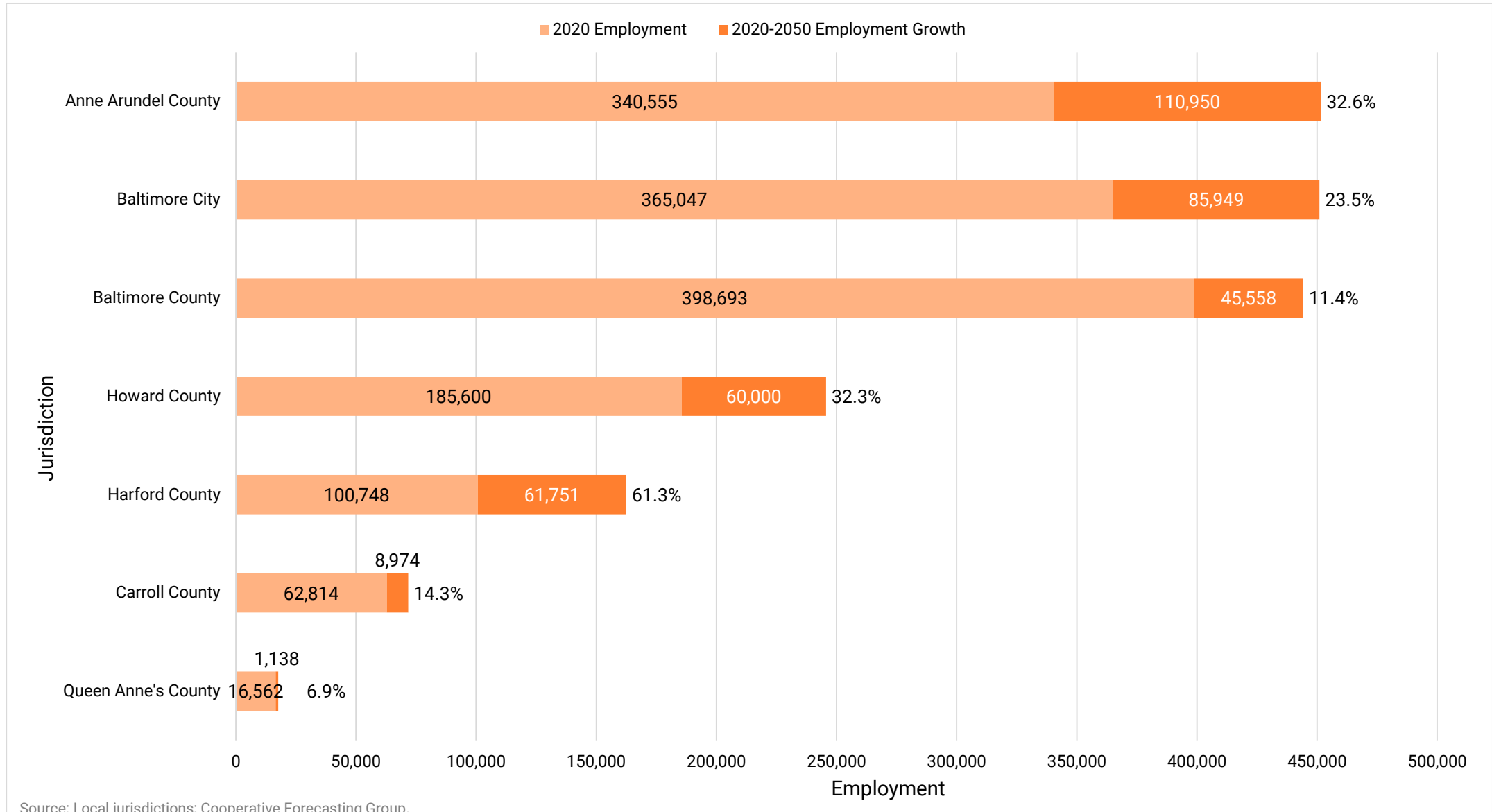Source: Local jurisdictions; Cooperative Forecasting Group.

Round 10 Cooperative Forecasts − Average Household Size

Average Household Size by Jurisdiction, 2020-2050

JURISDICTION	2020	2025	2030	2035	2040	2045	2050
Anne Arundel County	2.63	2.66	2.67	2.65	2.64	2.63	2.61
Baltimore City	2.26	2.23	2.22	2.21	2.20	2.19	2.18
Baltimore County	2.52	2.52	2.52	2.52	2.52	2.52	2.52
Carroll County	2.68	2.68	2.67	2.66	2.65	2.65	2.64
Harford County	2.64	2.63	2.61	2.59	2.57	2.55	2.53
Howard County	2.77	2.74	2.71	2.67	2.64	2.61	2.58
Queen Anne's County	2.57	2.57	2.57	2.57	2.57	2.57	2.57
Baltimore Region	2.53	2.53	2.52	2.51	2.50	2.49	2.48

Source: Local jurisdictions; Cooperative Forecasting Group.

Round 10 Cooperative Forecasts – Employment

Source: Local jurisdictions; Cooperative Forecasting Group.