



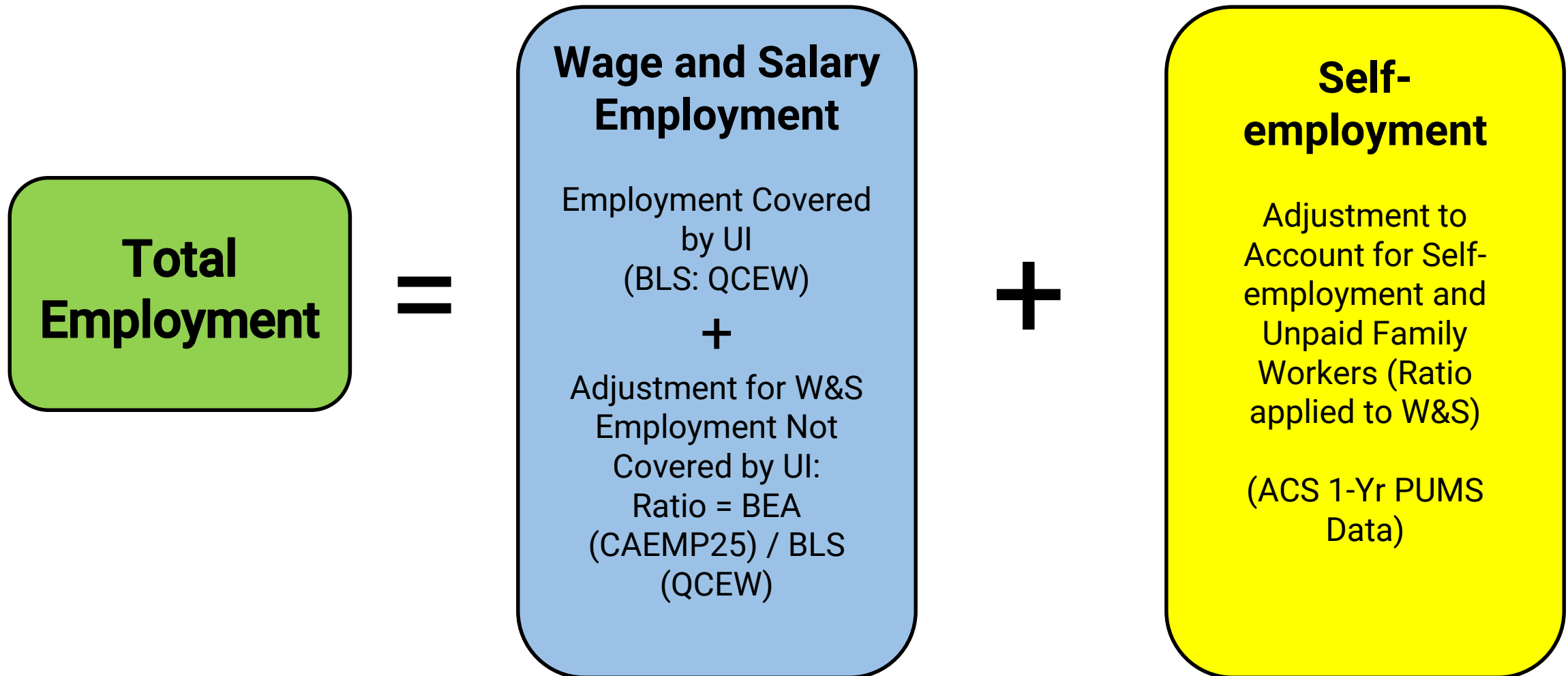
Employment Estimates - 2022

CFG Methodology – Jurisdiction Totals

June 28, 2023



Base Year Employment Estimation: CFG Methodology



Round 10 Base Year Employment Estimates: 2020

Jurisdiction	QCEW 2020	BEA / QCEW Ratio	CFG Wage & Salary Emp	ACS Self- Emp Factor	CFG Self- Emp	CFG 2020 BaseYear Employment
Anne Arundel	256,800	1.236	317,409	0.073	23,146	340,555
Baltimore City	327,650	1.068	350,058	0.043	14,984	365,042
Baltimore County	351,037	1.079	378,678	0.053	20,015	398,693
Carroll	54,314	1.069	58,035	0.082	4,779	62,814
Harford	89,374	1.077	96,221	0.050	4,790	101,010
Howard	161,187	1.088	175,352	0.059	10,284	185,636
Queen Anne's	14,329	1.072	15,363	0.078	1,199	16,562
Baltimore Region	1,254,691	1.109	1,391,114	0.057	79,198	1,470,312

Data Sources: Bureau of Labor Statistics; Bureau of Economic Analysis; Census Bureau (American Community Survey PUMS Data).

Methods/Development: Cooperative Forecasting Group; Baltimore Metropolitan Council.

Employment Estimates Update: 2022

Jurisdiction	QCEW Emp 2022	BEA / QCEW Ratio	CFG Wage & Salary Emp	ACS Self- Emp Factor (2021 1Yr ACS)	CFG Self- Emp	CFG 2022 BaseYear Employment
Anne Arundel	258,697	1.228	317,601	0.045	14,277	331,878
Baltimore City	340,811	1.090	371,506	0.045	16,627	388,132
Baltimore County	364,908	1.085	396,091	0.055	21,696	417,787
Carroll	56,578	1.087	61,488	0.053	3,236	64,724
Harford	92,106	1.087	100,149	0.059	5,924	106,073
Howard	165,103	1.104	182,243	0.052	9,461	191,705
Queen Anne's	15,118	1.084	16,389	0.079	1,296	17,685
Baltimore Region	1,293,321	1.118	1,445,466	0.050	72,518	1,517,984

Data Sources: Bureau of Labor Statistics; Bureau of Economic Analysis; Census Bureau (American Community Survey PUMS Data).

Methods/Development: Cooperative Forecasting Group; Baltimore Metropolitan Council.

Employment Estimates Comparison: 2020 - 2022

Jurisdiction	W&S Emp		Self-Emp		Total Emp	
	Num	Pct	Num	Pct	Num	Pct
Anne Arundel	192	0.1%	-8,869	-38.3%	-8,677	-2.5%
Baltimore City	21,448	6.1%	1,642	11.0%	23,090	6.3%
Baltimore County	17,413	4.6%	1,681	8.4%	19,094	4.8%
Carroll	3,453	5.9%	-1,543	-32.3%	1,910	3.0%
Harford	3,928	4.1%	1,134	23.7%	5,062	5.0%
Howard	6,891	3.9%	-823	-8.0%	6,068	3.3%
Queen Anne's	1,027	6.7%	97	8.1%	1,124	6.8%
Baltimore Region	54,352	3.9%	-6,680	-8.4%	47,672	3.2%

Data Sources: Bureau of Labor Statistics; Bureau of Economic Analysis; Census Bureau (ACS PUMS Data).

Methods/Development: Cooperative Forecasting Group; Baltimore Metropolitan Council.

Year 2022 Employment Comparison

Jurisdiction	2022	2022	Difference (R10-Emp Est)	
	Emp Est	CFG (R10)	Num	Pct
Anne Arundel	331,878	354,529	22,650	6.8%
Baltimore City	388,132	370,005	-18,127	-4.7%
Baltimore County	417,787	403,720	-14,067	-3.4%
Carroll	64,724	63,414	-1,310	-2.0%
Harford	106,073	104,691	-1,381	-1.3%
Howard	191,705	188,950	-2,754	-1.4%
Queen Anne's	17,685	16,647	-1,038	-5.9%
Baltimore Region	1,517,984	1,501,956	-16,028	-1.1%

Source: Bureau of Economic Analysis (CAEMP25N); Bureau of Labor Statistics (QCEW);

Local jurisdictions; Cooperative Forecasting Group; Baltimore Metropolitan Council.

Self-employment Factors by Year

Jurisdiction	1Yr ACS (Public Use Microdata Sample)							5Yr ACS
	2015	2016	2017	2018	2019	2020 ¹	2021	2017-21
Anne Arundel	4.0%	4.0%	5.2%	4.3%	7.3%	4.0%	4.5%	4.7%
Baltimore City	4.1%	3.8%	4.7%	4.0%	4.3%	4.5%	4.5%	4.4%
Baltimore County	5.3%	6.5%	5.4%	4.3%	5.3%	4.6%	5.5%	4.9%
Carroll	7.5%	5.0%	9.0%	7.1%	8.2%	9.7%	5.3%	7.9%
Harford	5.4%	6.0%	4.7%	5.0%	5.0%	4.2%	5.9%	4.6%
Howard	3.7%	4.4%	4.9%	5.8%	5.9%	4.5%	5.2%	5.0%
QAC+4 ²	5.5%	8.4%	7.1%	8.6%	7.8%	7.8%	7.9%	10.2%
Baltimore Region ³	4.6%	4.8%	5.2%	4.6%	5.6%	4.6%	5.0%	4.9%

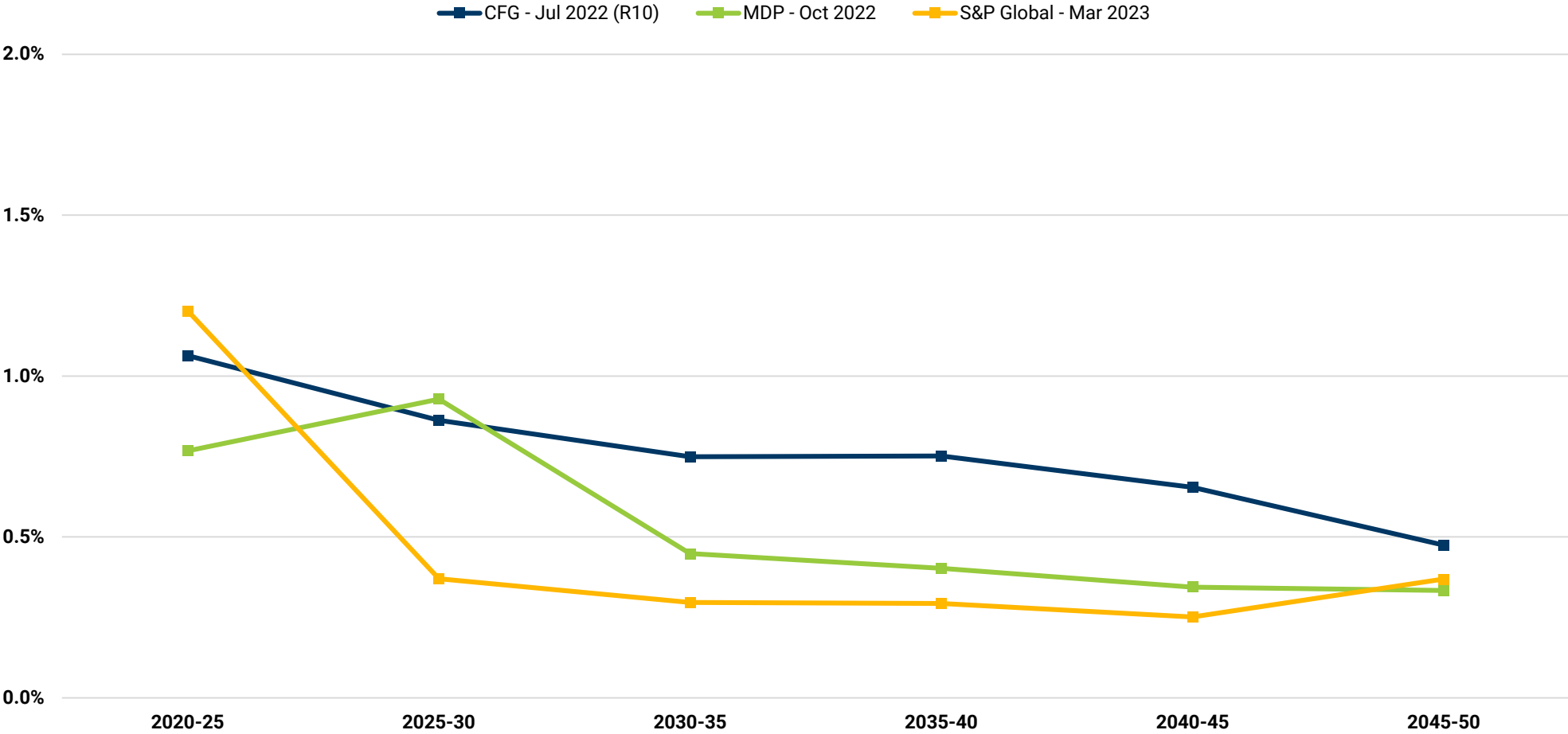
¹ Figures are from the Census Bureau's "Experimental Data Release" for 2020.

² The PUMS data listed for QAC+4 is reported for a PUMA that includes Queen Anne's, Talbot, Caroline, Dorchester & Kent Counties.

³ Figures for the Baltimore Region exclude the QAC+4 PUMA.

Source: U.S. Census Bureau American Community Survey, 1-Year Data (Public Use Microdata Sample) and 5-Year Data (Table B08528).

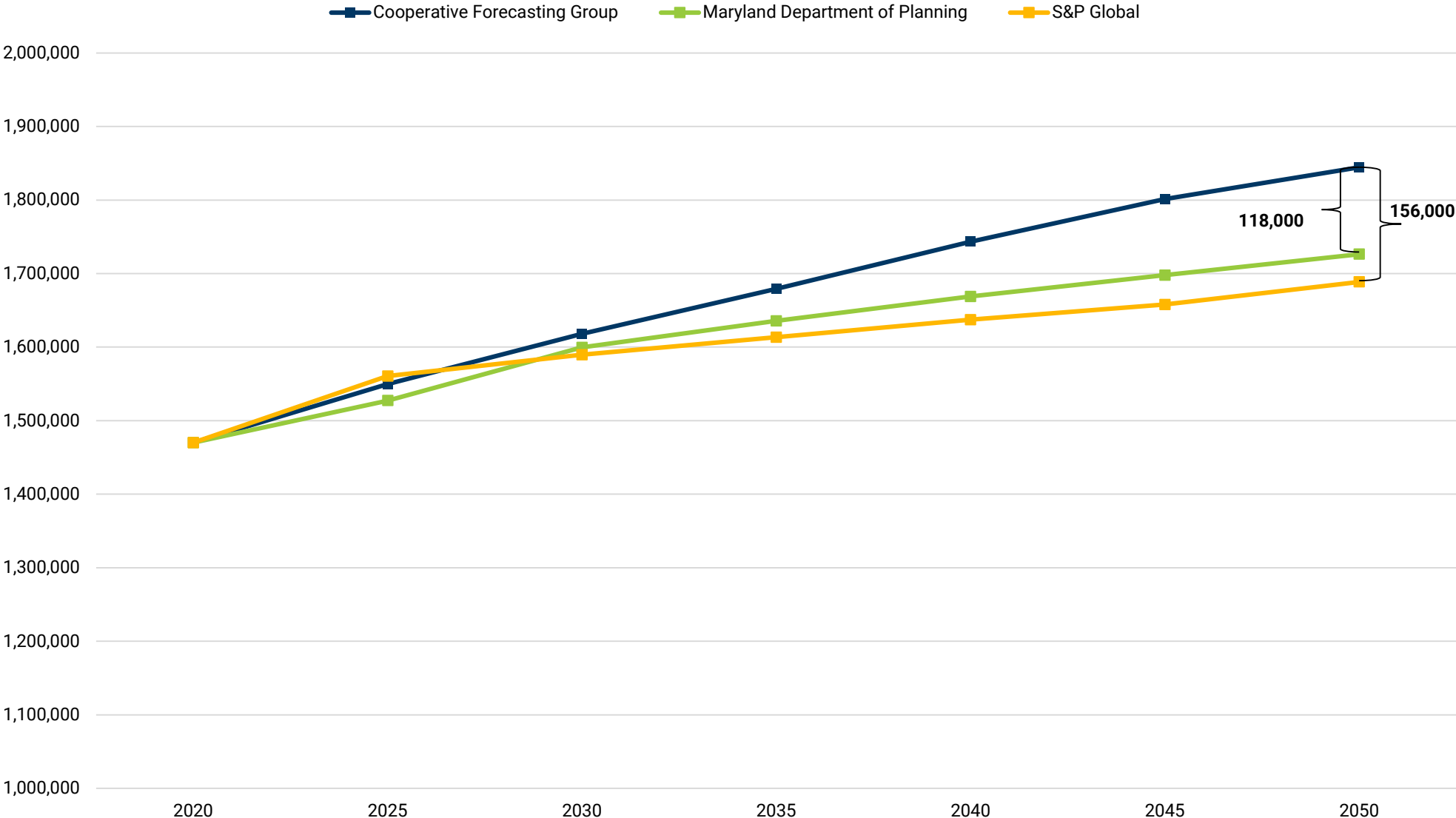
Forecast Annual Job Growth Rates by Source: Baltimore Region



Source	2020-25	2025-30	2030-35	2035-40	2040-45	2045-50	2020-50
Cooperative Forecasting Group	1.1%	0.9%	0.7%	0.8%	0.7%	0.5%	0.8%
Maryland Department of Planning	0.8%	0.9%	0.4%	0.4%	0.3%	0.3%	0.5%
S&P Global	1.2%	0.4%	0.3%	0.3%	0.3%	0.4%	0.5%

Source: Cooperative Forecasting Group (R10, Jul 2022); Maryland Department of Planning (Oct 2022); S&P Global (Mar 2023).

Employment: Regional Growth Rates by Source Applied to R10 Base-year Estimate



Source: Cooperative Forecasting Group; Maryland Department of Planning; S&P Global; Baltimore Metropolitan Council..

Selected Demographic Data

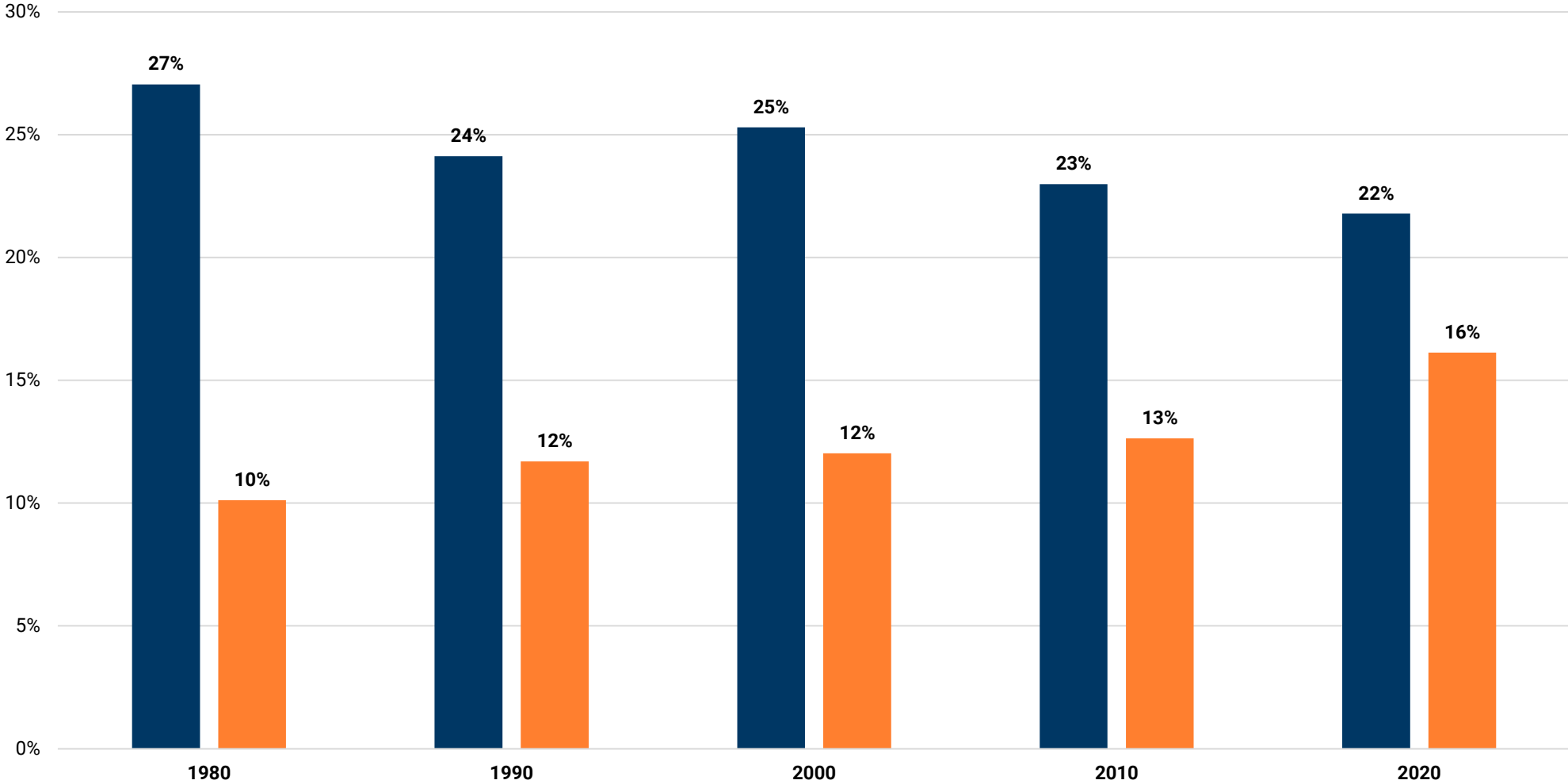
Selected Demographic Data: Median Age

Jurisdiction	1980	1990	2000	2010	2020	Chg: 1980-2020	
						Numeric	Percent
Anne Arundel County	29.3	32.8	36.0	38.4	38.8	9.5	32%
Baltimore City	30.2	32.7	35.0	34.4	35.5	5.3	18%
Baltimore County	32.4	35.2	37.7	39.1	39.3	6.9	21%
Carroll County	30.7	33.4	36.9	41.1	42.1	11.4	37%
Harford County	28.9	32.2	36.2	39.4	40.8	11.9	41%
Howard County	30.1	32.3	35.5	38.4	39.0	8.9	30%
Queen Anne's County	32.5	35.6	38.8	42.6	44.7	12.2	38%
Baltimore Region	30.6	33.3	36.3	38.2	38.6	8.0	26%
Maryland	30.3	33.1	36.0	38.0	38.8	8.5	28%
United States	30.0	33.0	35.3	37.2	38.8	8.8	29%

Source: U.S. Census Bureau decennial censuses; NHGIS, University of Minnesota.

Selected Demographic Data: Age Groups (Baltimore Region)

■ Children (0-17 Yrs) ■ Seniors (65+ Yrs)



Source: U.S. Census Bureau decennial censuses; NHGIS, University of Minnesota.

Selected Demographic Data: Tenure

Jurisdiction	Owner Occupied				
	1980	1990	2000	2010	2020
Anne Arundel County	70.2%	72.9%	75.5%	74.2%	71.9%
Baltimore City	47.2%	48.6%	50.3%	47.7%	43.3%
Baltimore County	64.2%	66.3%	67.6%	66.8%	64.0%
Carroll County	76.5%	78.5%	82.0%	82.0%	82.3%
Harford County	70.0%	73.9%	78.0%	79.6%	76.7%
Howard County	70.6%	72.2%	73.8%	73.7%	71.1%
Queen Anne's County	79.2%	81.0%	83.4%	82.9%	82.6%
Baltimore Region	60.2%	63.7%	66.9%	66.6%	64.1%
Maryland	62.0%	65.0%	67.7%	67.5%	65.0%
United States	64.4%	64.2%	66.2%	65.1%	63.1%

Source: U.S. Census Bureau decennial censuses; NHGIS, University of Minnesota.

Selected Demographic Data: Vacancy Rates

Jurisdiction	1980	1990	2000	2010	2020
Anne Arundel County	6.2%	5.1%	4.4%	6.2%	5.6%
Baltimore City	7.0%	9.0%	14.1%	15.8%	14.2%
Baltimore County	2.7%	4.7%	4.4%	5.6%	5.8%
Carroll County	4.6%	3.0%	3.2%	4.2%	4.2%
Harford County	5.8%	4.9%	4.2%	5.6%	4.8%
Howard County	5.9%	5.8%	3.0%	4.1%	3.6%
Queen Anne's County	11.8%	10.4%	8.2%	10.5%	9.6%
Baltimore Region	5.4%	6.3%	7.1%	8.3%	7.5%
Maryland	7.0%	7.6%	7.7%	9.3%	8.3%
United States	9.1%	10.1%	9.0%	11.4%	9.7%

Source: U.S. Census Bureau decennial censuses; NHGIS, University of Minnesota.

Selected Demographic Data: Average Household Size

Jurisdiction	1980	1990	2000	2010	2020
Anne Arundel	2.95	2.76	2.65	2.63	2.63
Baltimore City	2.74	2.59	2.42	2.38	2.26
Baltimore County	2.71	2.53	2.46	2.48	2.52
Carroll	3.02	2.85	2.81	2.74	2.68
Harford	3.06	2.83	2.72	2.68	2.64
Howard	2.94	2.71	2.71	2.72	2.77
Queen Anne's	2.84	2.69	2.62	2.63	2.57
Baltimore Region	2.80	2.64	2.55	2.54	2.53
Maryland	2.82	2.67	2.61	2.61	2.61
United States	2.75	2.63	2.59	2.58	2.55

Source: U.S. Census Bureau decennial censuses; NHGIS, University of Minnesota.

Selected Demographic Data - 2020 TAZ Geography

- **BMC staff is developing a GIS dataset containing selected datapoints from 2010 and 2020 decennial censuses**
 - Population
 - Hispanic or Latino Origin by Race
 - Sex by Age (for selected age categories)
 - Group Quarters Population by Type
 - Household Population
 - Housing Units by Occupancy Status
 - Average Household Size
 - Tenure

For More Information

Shawn Kimberly, AICP | Senior Planner

410-732-0500 x1026 | skimberly@baltometro.org | www.baltometro.org

