



# Employment Estimates - 2023

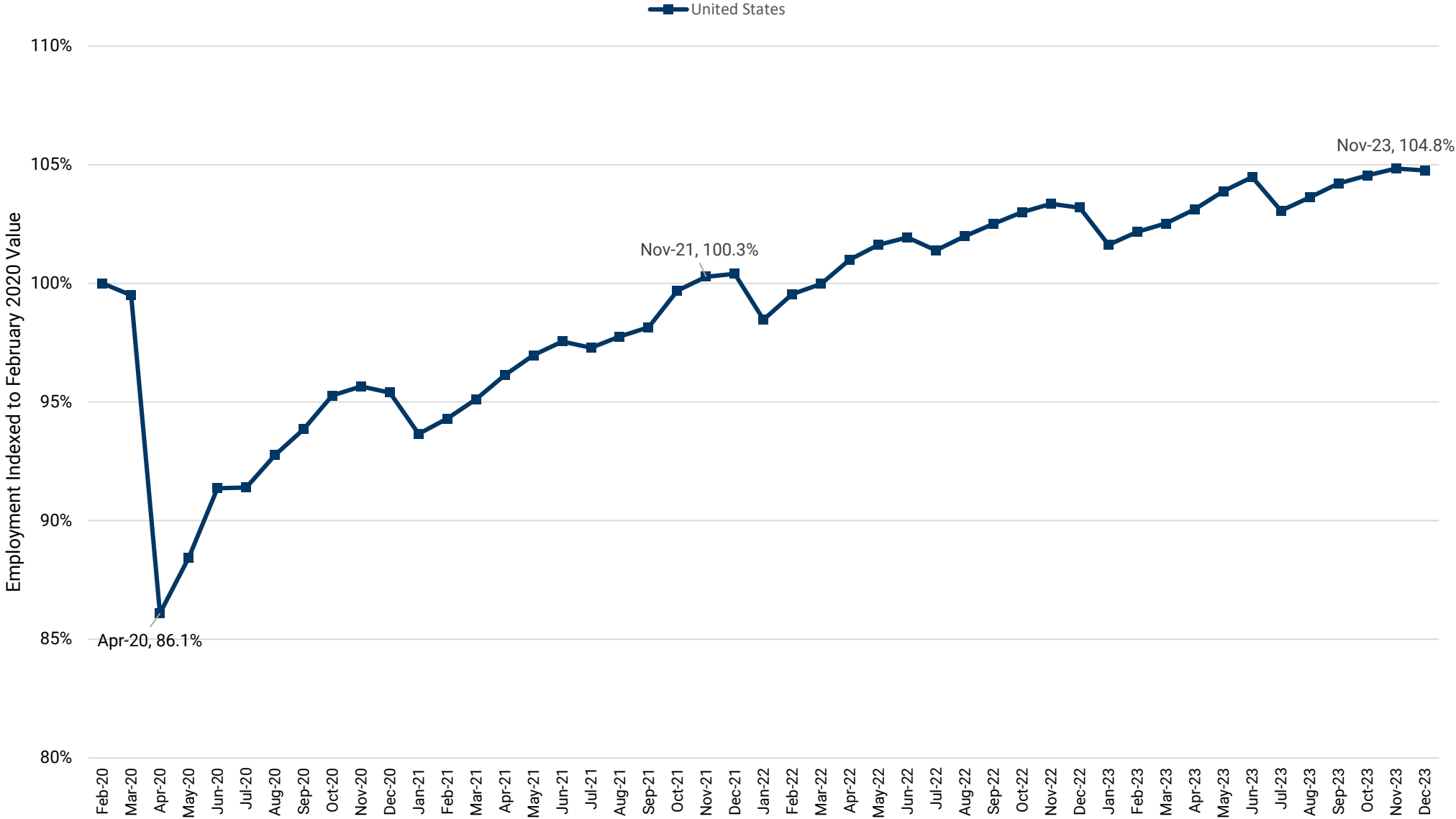
Jurisdiction Totals – CFG Methodology

June 26, 2024



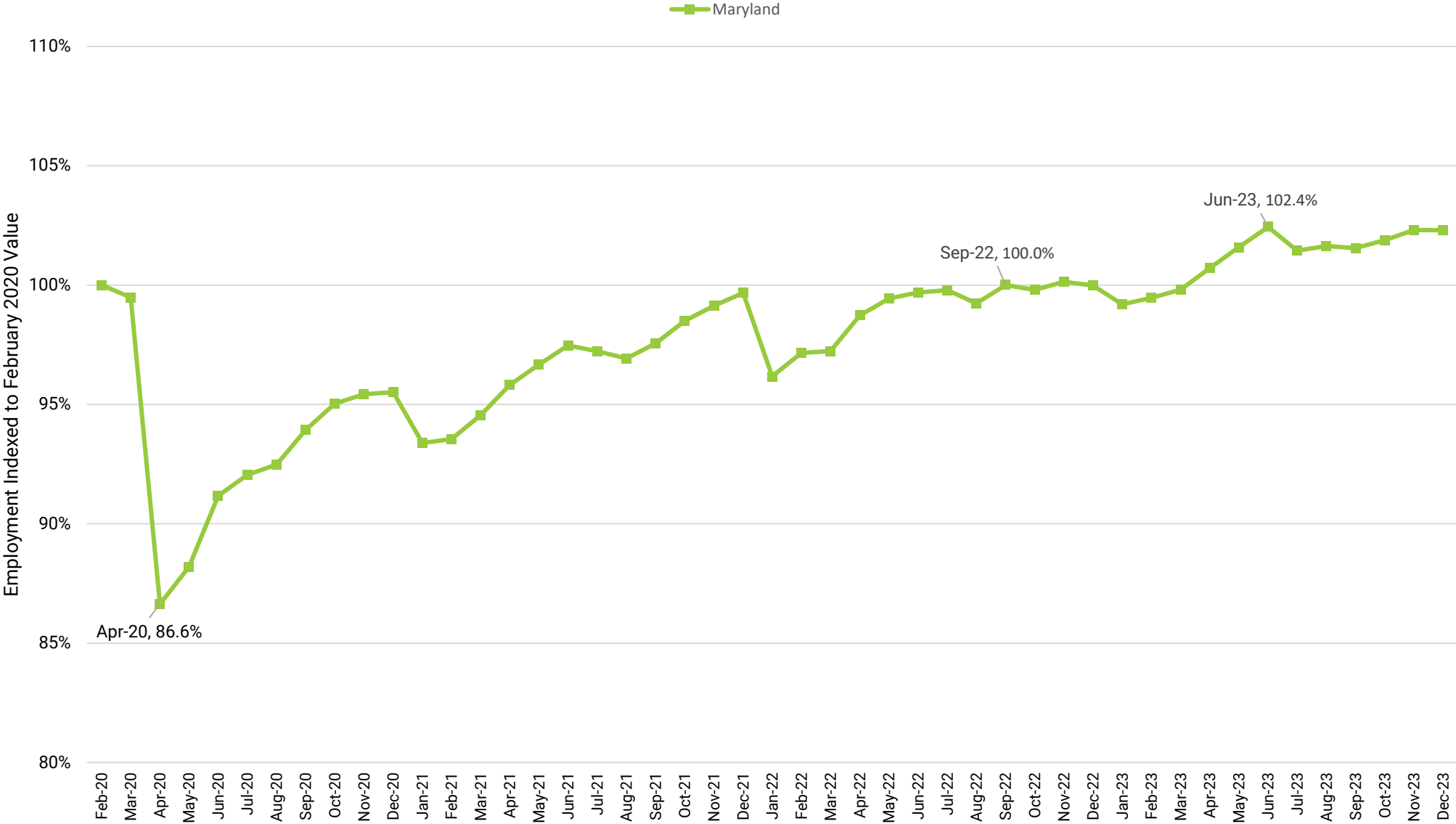
# QCEW Employment Growth: 2020-2023

# QCEW Employment Indexed to February 2020: United States



Source: Bureau of Labor Statistics, Quarterly Census of Employment and Wages (Data accessed June 7, 2024).

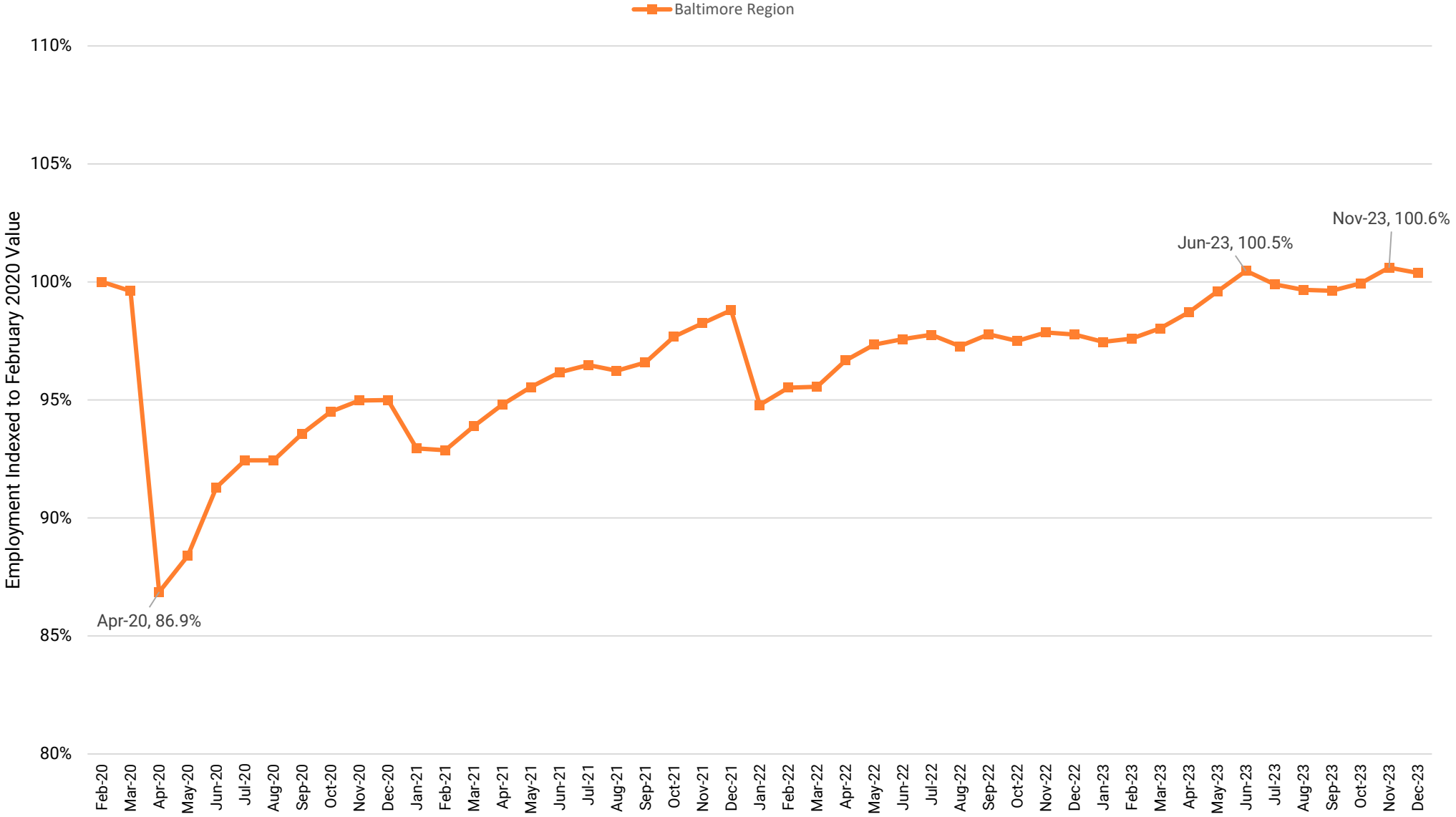
# QCEW Employment Indexed to February 2020: Maryland



Source: Bureau of Labor Statistics, Quarterly Census of Employment and Wages (Data accessed June 7, 2024).



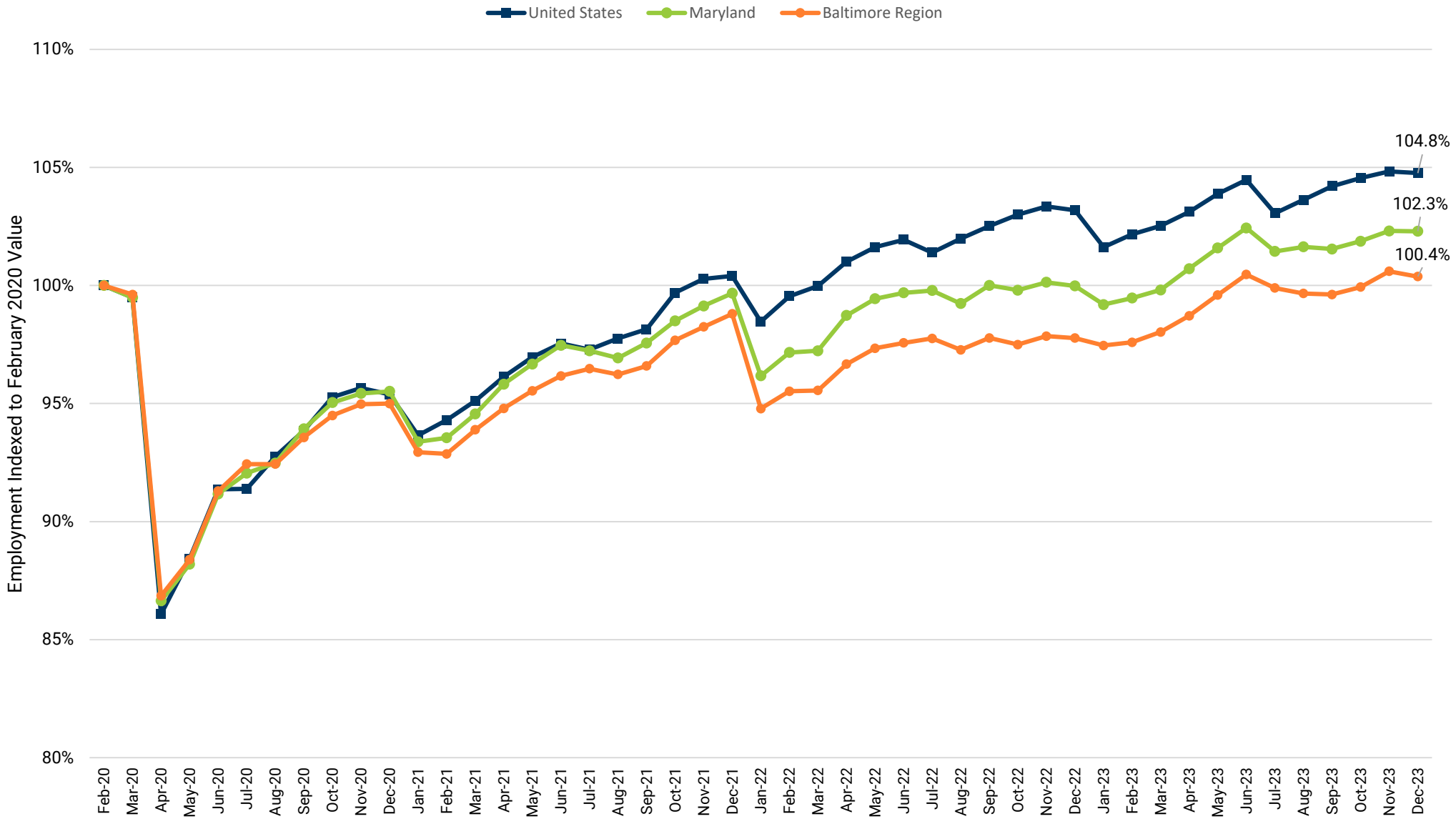
# QCEW Employment Indexed to February 2020: Baltimore Region



Source: Bureau of Labor Statistics, Quarterly Census of Employment and Wages (Data accessed June 7, 2024).



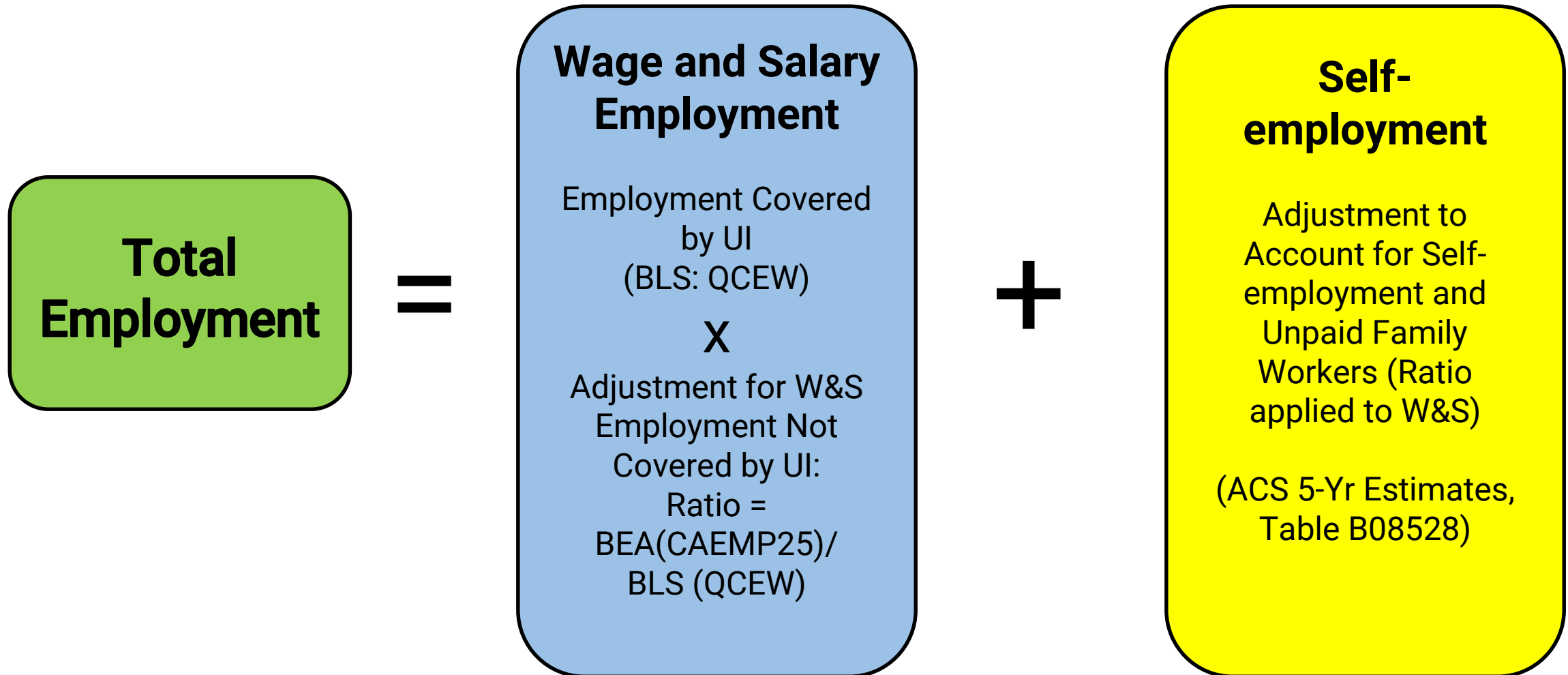
# QCEW Employment Indexed to February 2020: U.S., MD, Region



Source: Bureau of Labor Statistics, Quarterly Census of Employment and Wages (Data accessed June 7, 2024).

# Employment Estimates (CFG Methodology)

# Base Year Employment Estimation: CFG Methodology





# Self-employment Factors by Year

Jurisdiction	1Yr ACS (Public Use Microdata Sample)					5Yr ACS
	2018	2019	2020 <sup>1</sup>	2021	2022	2018-22
Anne Arundel	4.3%	7.3%	4.0%	4.5%	4.3%	4.7%
Baltimore City	4.0%	4.3%	4.5%	4.5%	4.6%	4.2%
Baltimore County	4.3%	5.3%	4.6%	5.5%	4.8%	4.8%
Carroll	7.1%	8.2%	9.7%	5.3%	6.1%	7.1%
Harford	5.0%	5.0%	4.2%	5.9%	4.9%	4.7%
Howard	5.8%	5.9%	4.5%	5.2%	4.8%	5.1%
QAC+4 <sup>2</sup>	8.6%	7.8%	7.8%	7.9%	11.0%	9.1%
Baltimore Region <sup>3</sup>	4.6%	5.6%	4.6%	5.0%	4.7%	4.8%

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

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

<sup>3</sup> The PUMS figures for the Baltimore Region exclude the QAC+4 PUMA.

Note: The 5Yr ACS data listed for QAC+4 is for Queen Anne's County (QAC), only - and the regional 5Yr ACS data includes QAC.

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

# Round 10 Base Year Employment Estimates: 2020

Jurisdiction	QCEW Emp 2020	BEA / QCEW Ratio	CFG Wage & Salary Emp	ACS Self- Emp Factor	CFG Self Emp	CFG R10 2020 Base Year Emp
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
<b>Baltimore Region</b>	<b>1,254,691</b>	<b>1.109</b>	<b>1,391,114</b>	<b>0.057</b>	<b>79,198</b>	<b>1,470,312</b>

Data Sources: U.S. Bureau of Labor Statistics (Quarterly Census of Employment and Wages); Bureau of Economic Analysis (CAEMP25); U.S. Census Bureau (American Community Survey, 1-Yr Estimates 2019 - PUMS Data).

Methods: Cooperative Forecasting Group; Baltimore Metropolitan Council.

# Employment Estimates Update – CFG Methodology: 2023

Jurisdiction	QCEW Emp 2023	BEA / QCEW Ratio	CFG Wage & Salary Emp	ACS Self- Emp Factor	CFG Self Emp	CFG 2023 Emp
Anne Arundel	277,393	1.241	344,354	0.047	16,101	360,455
Baltimore City	343,324	1.090	374,090	0.042	15,616	389,706
Baltimore County	366,322	1.090	399,279	0.048	19,201	418,481
Carroll	57,718	1.084	62,574	0.071	4,461	67,035
Harford	94,219	1.098	103,460	0.047	4,908	108,368
Howard	169,450	1.108	187,749	0.051	9,581	197,329
Queen Anne's	15,567	1.081	16,828	0.091	1,530	18,357
<b>Baltimore Region</b>	<b>1,323,993</b>	<b>1.124</b>	<b>1,488,334</b>	<b>0.048</b>	<b>71,398</b>	<b>1,559,732</b>

Data Sources: U.S. Bureau of Labor Statistics (Quarterly Census of Employment and Wages); Bureau of Economic Analysis (CAEMP25); U.S. Census Bureau (American Community Survey, 5-Yr Estimates 2018-2022 - Table B08528).

Methods: Cooperative Forecasting Group; Baltimore Metropolitan Council.

# Employment Change by Source and Jurisdiction: 2020 - 2023

Jurisdiction	W&S Emp		Self-Emp		Total Emp	
	Num	Pct	Num	Pct	Num	Pct
Anne Arundel	26,945	8.5%	-7,045	-30.4%	19,900	5.8%
Baltimore City	24,032	6.9%	632	4.2%	24,664	6.8%
Baltimore County	20,601	5.4%	-814	-4.1%	19,788	5.0%
Carroll	4,540	7.8%	-318	-6.7%	4,222	6.7%
Harford	7,239	7.5%	119	2.5%	7,358	7.3%
Howard	12,397	7.1%	-704	-6.8%	11,693	6.3%
Queen Anne's	1,465	9.5%	331	27.6%	1,796	10.8%
<b>Baltimore Region</b>	<b>97,220</b>	<b>7.0%</b>	<b>-7,800</b>	<b>-9.8%</b>	<b>89,420</b>	<b>6.1%</b>

Data Sources: U.S. Bureau of Labor Statistics (Quarterly Census of Employment and Wages); Bureau of Economic Analysis

(CAEMP25); U.S. Census Bureau (American Community Survey, 5-Yr Estimates 2018-2022 - Table B08528).

Methods: Cooperative Forecasting Group; Baltimore Metropolitan Council.

# Year 2023 Employment Comparison

Jurisdiction	2023	2023	Difference (R10-2023 Est)	
	Emp Est	CFG (R10)	Num	Pct
Anne Arundel	360,455	361,515	1,060	0.3%
Baltimore City	389,706	372,485	-17,221	-4.4%
Baltimore County	418,481	406,233	-12,247	-2.9%
Carroll	67,035	63,713	-3,322	-5.0%
Harford	108,368	106,663	-1,705	-1.6%
Howard	197,329	190,626	-6,704	-3.4%
Queen Anne's	18,357	16,690	-1,668	-9.1%
<b>Baltimore Region</b>	<b>1,559,732</b>	<b>1,517,925</b>	<b>-41,807</b>	<b>-2.7%</b>

Data Sources: Cooperative Forecasting Group - Local Jurisdictions; Bureau of Labor Statistics (QCEW);

Bureau of Economic Analysis; (CAEMP25); Census Bureau (ACS, 5-Yr Estimates 2018-2022 - Table B08528).

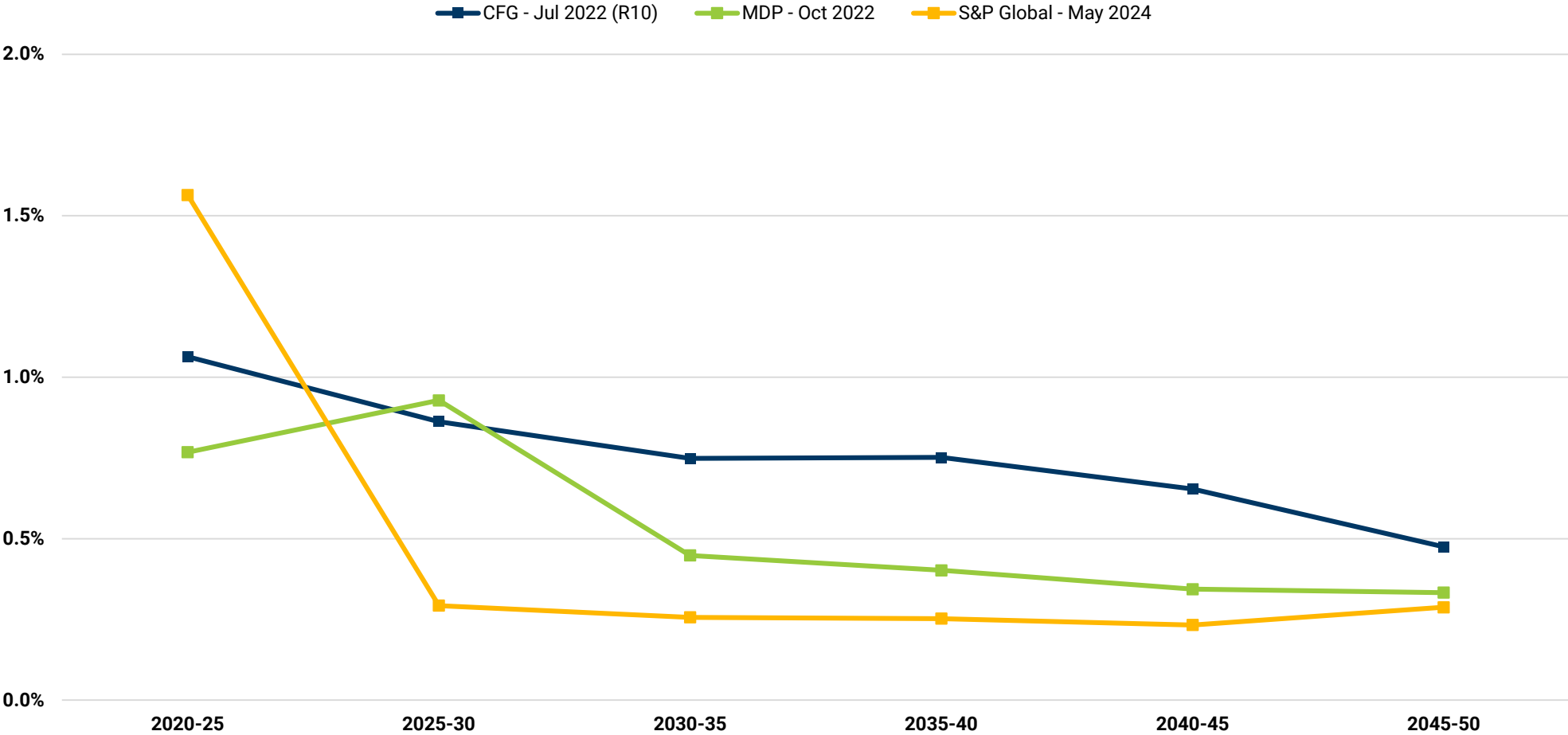
Methods: Cooperative Forecasting Group; Baltimore Metropolitan Council.

# Round 10 Employment Forecast Growth Comparison: 2020-2025 and 2025-2030

JURISDICTION	2020	2025	2030	2020-2025		2025-2030	
				Num Chg	Pct Chg	Num Chg	Pct Chg
Anne Arundel	340,555	375,489	389,833	34,934	10.3%	14,344	3.8%
Baltimore City	365,047	377,443	396,188	12,396	3.4%	18,745	5.0%
Baltimore County	398,693	411,260	425,058	12,567	3.2%	13,798	3.4%
Carroll	62,814	64,313	65,821	1,499	2.4%	1,508	2.3%
Harford	100,748	110,606	120,560	9,858	9.8%	9,955	9.0%
Howard	185,600	193,976	203,284	8,376	4.5%	9,308	4.8%
Queen Anne's	16,562	16,775	17,125	213	1.3%	350	2.1%
<b>Baltimore Region</b>	<b>1,470,019</b>	<b>1,549,862</b>	<b>1,617,869</b>	<b>79,843</b>	<b>5.4%</b>	<b>68,007</b>	<b>4.4%</b>

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

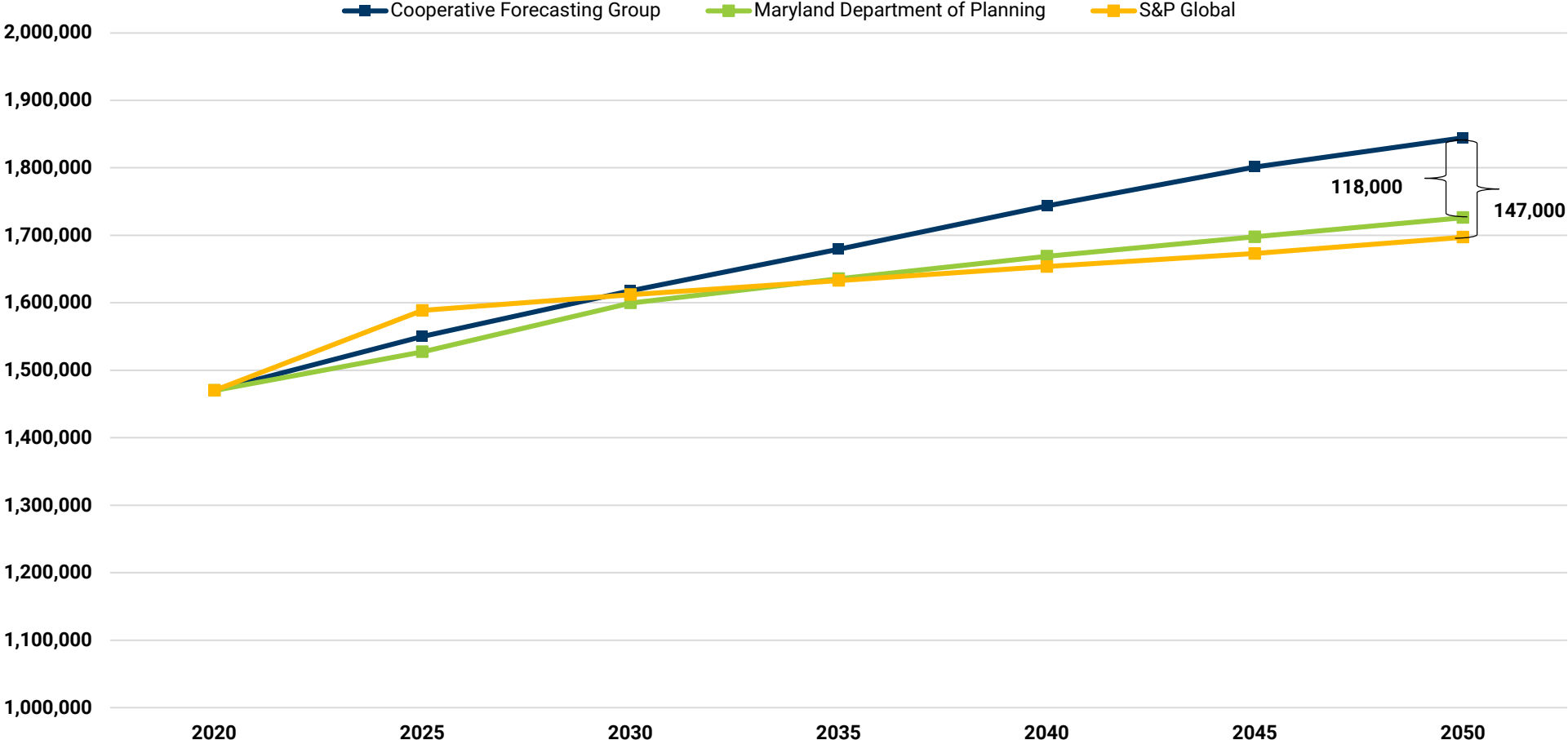
# Forecast Annual Employment Growth Rates by Source: Baltimore Region



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	1.6%	0.3%	0.3%	0.3%	0.2%	0.3%	0.5%

Source: Cooperative Forecasting Group (R10, Jul 2022); Maryland Department of Planning (Oct 2022); S&P Global (May 2024).

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



Source	2020	2025	2030	2035	2040	2045	2050	30-Yr Growth	
								Num	Pct
Cooperative Forecasting Group	1,470,019	1,549,862	1,617,869	1,679,367	1,743,438	1,801,187	1,844,339	374,320	25.5%
Maryland Department of Planning	1,470,019	1,527,324	1,599,561	1,635,721	1,668,874	1,697,769	1,726,246	256,227	17.4%
S&P Global	1,470,019	1,588,671	1,612,079	1,632,851	1,653,567	1,672,923	1,697,117	227,098	15.4%

Source: Cooperative Forecasting Group (R10, Jul 2022); Maryland Department of Planning (Oct 2022); S&P Global (May 2024).



# For More Information

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