



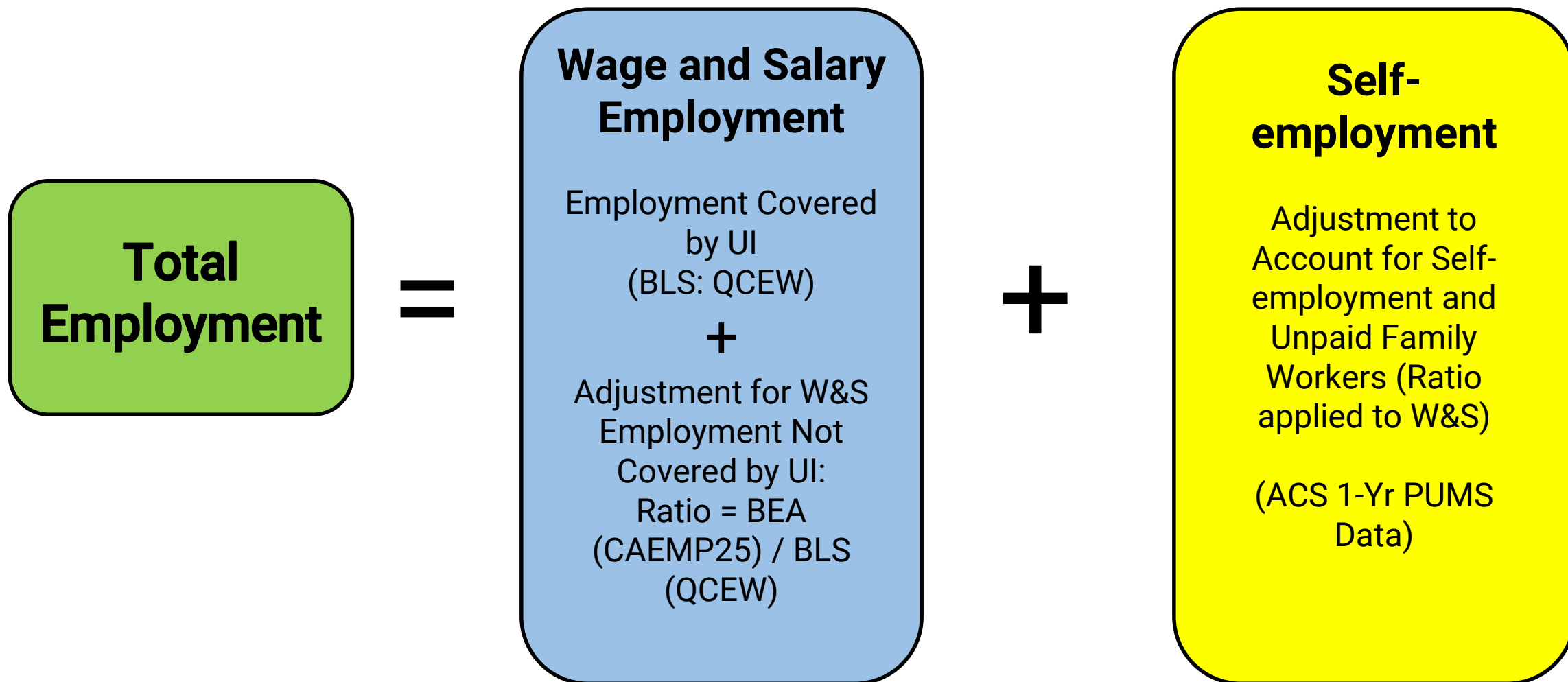
Round 10 Base Year Employment

CFG Methodology - Jurisdictional Totals

June 23, 2021



Base Year Employment Estimation: Updated CFG Methodology



Round 10 Base Year Employment Estimates: 2020

Wage and Salary, BEA / BLS Ratios

Jurisdiction	2019 BEA (W&S)	2019 BLS (QCEW)	2019 Ratio
Anne Arundel	339,964	274,972	1.236
Baltimore City	367,291	344,378	1.067
Baltimore County	410,180	380,770	1.077
Carroll	62,702	58,660	1.069
Harford	102,766	95,333	1.078
Howard	189,730	174,642	1.086
Queen Anne's	16,764	15,647	1.071
Baltimore Region	1,489,397	1,344,402	1.108



Example of BEA/BLS Ratio Development

Round 10 Base Year Employment Estimates: 2020

Wage and Salary, BEA / BLS Ratios

Jurisdiction	2019 BEA (W&S)	2019 BLS (QCEW)	2019 Ratio
Anne Arundel	339,964	274,972	1.236
Baltimore City	367,291	344,378	1.067
Baltimore County	410,180	380,770	1.077
Carroll	62,702	58,660	1.069
Harford	102,766	95,333	1.078
Howard	189,730	174,642	1.086
Queen Anne's	16,764	15,647	1.071
Baltimore Region	1,489,397	1,344,402	1.108



Example of BEA/BLS Ratio Development

Ratio Development for 2020



Jurisdiction	2014	2015	2016	2017	2018	2019	CAGR	Est 2020
Anne Arundel	1.238	1.239	1.233	1.231	1.233	1.236	-0.03%	1.236
Baltimore City	1.057	1.058	1.059	1.059	1.063	1.067	0.17%	1.068
Baltimore County	1.070	1.070	1.071	1.071	1.074	1.077	0.14%	1.079
Carroll	1.071	1.071	1.072	1.071	1.071	1.069	-0.04%	1.069
Harford	1.085	1.084	1.082	1.078	1.078	1.078	-0.13%	1.077
Howard	1.079	1.078	1.080	1.078	1.081	1.086	0.14%	1.088
Queen Anne's	1.068	1.065	1.067	1.074	1.072	1.071	0.07%	1.072
Baltimore Region	1.103	1.103	1.103	1.102	1.105	1.108	0.10%	1.109

Source: Bureau of Labor Statistics; Bureau of Economic Analysis; Baltimore Metropolitan Council.

Round 10 Base Year Employment Estimates: 2020

Wage and Salary (QCEW Annual Data: 2019-2020)

Jurisdiction	2019	2020	Chg	% Chg
Anne Arundel	274,972	256,800	-18,172	-6.61%
Baltimore City	344,378	327,650	-16,728	-4.86%
Baltimore County	380,770	351,037	-29,733	-7.81%
Carroll	58,660	54,314	-4,346	-7.41%
Harford	95,333	89,374	-5,959	-6.25%
Howard	174,642	161,187	-13,455	-7.70%
Queen Anne's	15,647	14,329	-1,318	-8.42%
Baltimore Region	1,344,402	1,254,691	-89,711	-6.67%

Source: Bureau of Labor Statistics (accessed June 8, 2021).

Round 10 Base Year Employment Estimates: 2020

Wage and Salary (BEA and BLS)

Jurisdiction	QCEW 2020	BEA/QCEW Ratio	CFG W&S Emp
Anne Arundel	256,800	1.236	317,409
Baltimore City	327,650	1.068	350,058
Baltimore County	351,037	1.079	378,678
Carroll	54,314	1.069	58,035
Harford	89,374	1.077	96,221
Howard	161,187	1.088	175,352
Queen Anne's	14,329	1.072	15,363
Baltimore Region	1,254,691	1.109	1,391,114

Sources: Bureau of Labor Statistics; Bureau of Economic Analysis; Cooperative Forecasting Group; Baltimore Metropolitan Council.

Round 10 Base Year Employment Estimates: 2020

Self-Employment Factors (1-Yr ACS PUMS Data)

Jurisdiction	Wage & Salary Employment	Self-employed Not Incorporated and Unpaid Family Workers	Self- employment Factor
Anne Arundel	274,280	20,001	0.073
Baltimore City	362,224	15,505	0.043
Baltimore County	329,636	17,423	0.053
Carroll	51,827	4,268	0.082
Harford	88,713	4,416	0.050
Howard	153,079	8,978	0.059
Queen Anne's +	96,302	7,518	0.078

Note: PUMS data is available only at the Public Use Microdata Area (PUMA) geography. PUMAs have a population requirement of 100,000 people. Queen Anne's County is combined with additional Eastern Shore counties to create one PUMA.

Source: American Community Survey, 1-Year Public Use Microdata Sample, 2019.

Round 10 Base Year Employment Estimates: 2020

Total Employment

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.

For More Information

Shawn Kimberly, AICP | Senior Planner

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

