

MARYLAND DEPARTMENT OF PLANNING

PROJECTIONS METHODOLOGY: EMPLOYMENT

Alfred Sundara, AICP

Manager, Projections and State Data Center

Maryland Department of Planning

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POPULATION PROJECTIONS

Planning's Projections and State Data Center produces population projections. These projections include:

- Total Population
- Household Population
- Number of Households
- Average Household Size
- Labor Force

EMPLOYMENT PROJECTIONS

Planning's Projections and State Data Center also provides projections on employment in support of comprehensive planning efforts. These projections include:

- Total Jobs by Place of Work by Jurisdiction
- Total Jobs by Place of Work by Industry

EMPLOYMENT PROJECTIONS - SOURCE DATA

- Bureau of Economic Analysis (BEA)
- Census: Non-Employer Statistics (NES)
- Maryland Department of Labor (DLLR)
- U.S. Bureau of Labor Statistics (BLS)
- Baltimore Metropolitan Council (BMC)
- Metropolitan Washington Council of Governments

EMPLOYMENT PROJECTIONS - METHODOLOGY

Process

- Total Jobs by Place of Work by Jurisdiction
 - For jurisdictions in Maryland's Suburban Washington region and Baltimore region, use forecasted county totals from the Washington and Baltimore MPO's
 - For jurisdictions in the Southern Maryland region, Western Maryland, Eastern Shore regions develop county total projections.

EMPLOYMENT PROJECTIONS - METHODOLOGY

Process

- Deriving Projected County Employment Totals for Non-MPO jurisdictions
 - Develop regression equation(s) to determine growth rates which are then applied to most recent county total.
 - Projected employment is a function of time, labor force growth rates, and labor force participation rates.

EMPLOYMENT PROJECTIONS - METHODOLOGY

Labor Force and Labor Force Participation Rate

- Inputs

- Population 16 years and over (by different age cohorts)
- Labor Force Participation rates from ACS and US Bureau of Labor Statistics

- Equations

Labor Force = Population 16 years and over * projected Labor Force Participation Rates from US BLS by different age groups

Labor Force Participation Rate = Labor Force / Population 16 years

EMPLOYMENT PROJECTIONS - METHODOLOGY

Process

- Produce Historical Series
 - Wage & Salary jobs data from BEA
 - Use BEA Proprietor data for the Farms and Management of Companies industries
 - Use NES as substitute for proprietor data for all other industries
 - Use Fratar method to address non-disclosed employment in any industry.

EMPLOYMENT PROJECTIONS - METHODOLOGY

Process

- Total Jobs by Place of Work by Industry
 - Examine Department of Labor's employment trends for each industry in each county over a period of time.
 - Derive the proportion of industry employment and apply to county totals.

WEBSITE AND CONTACT

Maryland State Data Center Projections website

https://planning.maryland.gov/MSDC/Pages/s3_projection.aspx

CONTACT

Alfred Sundara, AICP

Manager, Projections and State Data Center

Ph: 410-767-4002

Email: Alfred.Sundara@Maryland.gov

