MARYLAND DEPARTMENT OF PLANNING

PROJECTIONS METHODOLOGY: EMPLOYMENT

Alfred Sundara, AICP
Manager, Projections and State Data Center
Maryland Department of Planning
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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
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.
Labor Force and Labor Force Participation Rate

- **Inputs**
  - Population 16 years and over (by different age cohorts)

- **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.
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.
Maryland State Data Center Projections website

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

Alfred Sundara, AICP
Manager, Projections and State Data Center
Ph: 410-767-4002
Email: Alfred.Sundara@Maryland.gov