

## **Community Health Indicators for the Washington Metropolitan Region report**

1. Physical Activity – Regular physical Activity (% of adults) and Coronary heart disease death rate
2. Overweight and Obesity – Obesity (% of adults), Fruit and vegetable consumption (% of adults), and Diabetes-related death rate
3. Tobacco use – Current smokers (% of adults) and Lung cancer death rate
4. Substance Abuse – Binge drinkers (% of adults) and Drug-induced death rate
5. Responsible Sexual Behavior – Teen birth rate (girls aged 15-17), AIDS incidence, Chlamydia: incidence in girls and women aged 15-24, and Gonorrhea incidence
6. Mental Health – Suicide rate, Mental health problems (% of adults reporting 8+ days of “not good” mental health in past 30 days)
7. Injury and Violence – Motor vehicle crash death rate, Firearm-related death rate, rape or attempted rape: reported incidence among females
8. Environmental Quality – Excess ozone: days national 1-hour standard exceeded and Foodborne illness: reported incidence of Salmonella infection
9. Immunization and Infectious Diseases – Immunization rate (% of 2-year-olds)(4:3:1 series), Flu shot in the past year (% of adults aged 65+), and Tuberculosis incidence
10. Access to Health Care – Infant mortality rate, Low birth weight (% of births <2,500 grams), Cervical cancer death rate, Professional dental hygiene services in past year (% of adults), Fecal occult blood testing in past 2 years (% of adults aged 50+), and Mammogram in past 2 years (% of women aged 40+)

## **Annual Report on Crime and Crime Control**

1. The report focuses on Part I Offenses, including the more serious or violent crime categories: homicide, rape, robbery, aggravated assault, burglary, larceny and motor vehicle theft.

## **Economic Trends in Metropolitan Washington report**

1. Population of the Washington DC-MD-VA MSA, by Jurisdiction
2. At-Place Employment in the Washington-Arlington-Alexandria DC-MD-VA-WV MSA by Jurisdiction
3. At-Place Employment in the Washington-Arlington-Alexandria DC-MD-VA-WV MSA, by Industrial Group
4. Direct Federal Expenditures and Obligations in the Washington-Arlington-Alexandria DC-MD-VA-WV MSA, by Jurisdiction
5. Labor Force by Place of Residence in the Washington-Arlington-Alexandria DC-MD-VA-WV MSA (Civilian Labor Force, Employment, Unemployment, and Unemployment Rate)
6. New Privately-Owned Housing Units Authorized in the Washington-Arlington-Alexandria DC-MD-VA-WV MSA, by Jurisdiction
7. Terms on Conventional Home Mortgages, Average for Closed Loans in the Washington-Baltimore DC-MD-VA-WV CMSA
8. Net Home Sales in the Washington-Arlington-Alexandria DC-MD-VA-WV MSA, by Jurisdiction

9. Housing Component of the Consumer Price Index (Housing-Related Inflation) All Consumers, Washington Baltimore DC-MD-VA-WV CMSA
10. Consumer Price Index and Inflation – All Urban Consumers in the Washington DC-MD-VA-WV CMSA
11. Total Personal Income in the Washington-Arlington-Alexandria DC-MD-VA-WV MSA, by Jurisdiction
12. Per Capita Income in the Washington-Arlington-Alexandria DC-MD-VA-WV MSA, by Jurisdiction
13. Estimated Total Annual Sales in the Washington-Arlington-Alexandria DC-MD-VA-WV MSA
14. Number of Air Passengers Traveling to or From BWI, Dulles, and Reagan National Airports

### **Commercial Construction Indicators Annual Summary report**

1. Commercial Construction Starts, Total Square Feet by Year
2. Commercial Construction Starts, by Structure Type
3. Commercial Construction Starts, by Structure Type and State Group
4. Commercial Construction in the Washington Region, by Jurisdiction
5. Commercial Construction in the Washington Region in Metrorail and Commuter Rail Station Areas
6. Commercial Construction Projects in the Washington Region, by Regional Activity Centers
7. Commercial Construction Projects in the Washington Region, by Regional Activity Clusters

### **Cooperative Forecasting Program**

1. Total Number of Jobs by TAZ
2. Total Number of People by TAZ
3. Total Number of Households by TAZ
4. Average Household Size
5. Job/Households ratio

### **Quarterly Housing News**

1. Home Sales by Jurisdiction (Median Sales, Average Sales Price, and Number of)
2. Days on the Market

## **TPB REGIONAL MOBILITY AND ACCESSIBILITY STUDY MEASURES OF EFFECTIVENESS**

### **Land Use/Demographics**

1. Land Area Used for 90% of Region's Employment (for Cooperative Forecast and each scenario)

2. Land Area Used for 90% of Region's Households (for Cooperative Forecast and each scenario)
3. Ratio of Total Jobs in Regional Activity Clusters to Number of Workers Living in Regional Activity Clusters (Round 6.4 Cooperative Forecast vs. each scenario)
4. Households within ¼-Mile and ½-Mile of Transit Stations in Regional Activity Clusters
5. Employment within ¼-Mile and ½-Mile of Transit Stations in Regional Activity Clusters
6. Existing and Planned Transit Stations in the Regional Activity Clusters
7. Regional Activity Clusters Containing Transit Stations
8. Employment Growth 2010 to 2030 (Round 6.4 Cooperative Forecast and each scenario)
9. Household Growth 2010 to 2030 (Round 6.4 Cooperative Forecast and each scenario)

### **Vehicle Travel and Congestion**

1. Daily Vehicle Miles Traveled (VMT) Per Capita
2. A.M. Peak Highway Congestion Levels (2030 CLRP+ Network)
3. Change in A.M. Peak Highway Congestion Levels (for each scenario)

### **Mode Choice**

1. Change in SOV Commuting Mode Share: Productions and Attractions in Regional Activity Centers (for each scenario)
2. Change in Transit Commuting Mode Share: Productions and Attractions in Regional Activity Centers (for each scenario)
3. Change in HOV Commuting Mode Share: Productions and Attractions in Regional Activity Centers (for each scenario)
4. Change in Walk / Bike Commuting Mode Share: Productions in Regional Activity Centers (for each scenario)
5. Change in Walk / Bike Commuting Mode Share: Attractions in Regional Activity Centers (for each scenario)
6. Change in Walk / Bike Commuting Mode Share: Productions in Regional Activity Centers (for each scenario)

### **Accessibility**

1. Highway Accessibility to Jobs in 45 Minutes (Round 6.4 Cooperative Forecast and each scenario)
2. Transit Accessibility to Jobs in 45 Minutes (Round 6.4 Cooperative Forecast and each scenario)
3. Walk Access Transit Accessibility to Jobs in 45 Minutes (Round 6.4 Cooperative Forecast and each scenario)
4. Highway Accessibility to Households in 45 Minutes (Round 6.4 Cooperative Forecast and each scenario)
5. Transit Accessibility to Households in 45 Minutes (Round 6.4 Cooperative Forecast and each scenario)
6. Walk Access Transit Accessibility to Households in 45 Minutes (Round 6.4 Cooperative Forecast and each scenario)
7. Change in Highway Accessibility to Jobs in 45 Minutes (for each scenario)

8. Change in Transit Accessibility to Jobs in 45 Minutes (for each scenario)
9. Change in Walk Access Transit Accessibility to Jobs in 45 Minutes (for each scenario)  
Change in Highway Accessibility to Households in 45 Minutes (for each scenario)
10. Change in Transit Accessibility to Households in 45 Minutes (for each scenario)
11. Change in Walk Access Transit Accessibility to Households in 45 Minutes (for each scenario)
12. Regional Airport Peak Period Accessibility: Areas Within 45 Minutes of Airports by Highway (for each scenario)
13. Regional Airport Peak Period Accessibility: Areas Within 45 Minutes of Airports by Transit (for each scenario)
14. Regional Rail Station Period Accessibility: Areas Within 45 Minutes of Rail Stations by Highway (for each scenario)
15. Regional Rail Station Peak Period Accessibility: Areas Within 45 Minutes of Rail Stations by Transit (for each scenario)
16. Regional Bus Depot Period Accessibility: Areas Within 45 Minutes of Bus Depots by Highway (for each scenario)
17. Regional Bus Depot Peak Period Accessibility: Areas Within 45 Minutes of Bus Depots by Transit (for each scenario)
18. Regional Freight Terminal Peak Period Accessibility: Areas Within 60 Minutes of a Freight Terminal by Highway (for each scenario)

#### **Air Quality - Mobile Source Emissions**

1. Volatile Organic Compounds (VOC) Mobile Source Emissions, Year 2030 MSA (Tons/Day, Ozone Season)
2. Nitrogen Oxides (NOx) Mobile Source Emissions, Year 2030 MSA (Tons/Day, Ozone Season)
3. Winter CO Mobile Source Emissions, Year 2030 MSA (Tons/Day)
4. Direct PM2.5 Mobile Source Emissions, Year 2030 MSA (Tons/Year, Network Emissions Only)
5. PM2.5 Precursor NOx Mobile Source Emissions, Year 2030 MSA (Tons/Year)
6. Change in Employment in Regional Watersheds (Round 6.4 Cooperative Forecast, 2010 – 2030 and for each scenario)
7. Change in Households in Regional Watersheds (Round 6.4 Cooperative Forecast, 2010 – 2030 and for each scenario)

#### **Population, Employment, Households**

1. Population density – can be computed
2. Percentage of population in regional activity centers – can be computed
3. Acres of forest cover per capita – can be estimated
4. Acres of impervious cover per capita – can be estimated

#### **Water Supply**

1. Total volume of water produced, million gallons - measured
2. Total water used per capita, gallons – can be computed

3. Total volume of water withdrawn from Potomac River, million gallons- measured
4. Total capacity of back-up storage reservoirs, billion gallons or days of storage – measured

### **Wastewater Capacity/Pollution Caps**

1. Total volume of wastewater treated, million gallons - measured
2. Total wastewater treated per capita, gallons – can be computed
3. Total nitrogen discharged from wastewater plants, million pounds per year (or pounds per day) - measured
4. Total phosphorus discharged from wastewater plants, million pounds per year (or pounds per day) – measured
5. Total amount of wastewater biosolids generated, dry tons/year - measured
6. Total amount of wastewater biosolids beneficially reused, tons/year – measure

### **Land Cover/Watershed Health [may want to separate out land cover, watershed health, and water quality metrics]**

1. Percentage of region that is developed (square miles) – can be estimated with satellite data
2. Percentage of region that is tree-covered – can be estimated with satellite data
3. Area of region that is tree-covered, square miles – can be estimated with satellite data
4. Percentage impervious area, square miles – can be estimated with satellite data
5. Contiguous forest cover for tree-covered parcels over 75 acres (acres) (could be more artfully written) – can be estimated with satellite data
6. Number of contiguous tree-covered parcels over 75 acres – can be estimated with satellite data
7. Percentage of stream miles meeting water quality standards - measured
8. Percentage of stream miles that are impaired - measured
9. Percentage of days meeting water quality standards, Potomac estuary – partially measured, may require modeling
10. Total nitrogen entering region at Point of Rocks, Maryland (million pounds per year or pounds per day) - estimated
11. Total nitrogen load entering Potomac estuary at Chain Bridge (million pounds per year or pounds per day) - measured
12. Total phosphorus entering region at Point of Rocks, Maryland (million pounds per year or pounds per day) - estimated
13. Total phosphorus load entering Potomac estuary at Chain Bridge (million pounds per year or pounds per day) – measured
14. Sediment load entering region at Point of Rocks, Maryland (million pounds per year or pounds per day) – estimated
15. Sediment load entering Potomac estuary at Chair Bridge (million pounds per year or pounds per day) – measured

### **Air Quality**

1. Number of days region does not meet federal air quality standards – measured
2. Number of days region meets federal air quality standards – measured

3. Number of Code Red Days – measured
4. Number of Code Orange Days – measured
5. Hours per year region does not meet federal air quality standards - measured
6. Total nitrogen oxides emitted into region's air – measured and estimated depending on source
7. Total volatile organic compounds emitted into region's air – measured and estimated depending on source
8. Total particular matter emitted into region's air – measured and estimated depending on source
9. Individual emission estimates for broad categories – point sources, area sources, transportation sources, off-road transportation, etc. – measured and estimated depending on source
10. Number of people at risk from air quality problems (e.g., number of people with lung diseases) – estimated

### **Solid Waste disposal/recycling**

1. Total amount of solid waste generated in region, million pounds per year (measured/estimated)
2. Total amount of solid waste recycled in region, million pounds per year (measured/estimated)
3. Recycling rate (percentage of solid waste generated that is recycled) – measured/estimated
4. Solid waste generated per capita, lbs/person/year (measured/estimated)
5. Recycled materials generated per capita, lbs/person/year (measured/estimated)
6. Total amount of solid waste disposed of in landfills, million pounds per year (measured)
7. Total amount of solid waste disposed of in waste to energy plants, million pounds per year
8. Total energy generated by waste to energy plants, megawatt hours (measured)
9. Percentage of solid waste disposed of in COG region annually (estimated)
10. Percentage of solid waste disposed of outside COG region annually (estimated)

### **Energy**

1. Total electric energy consumed in COG region, megawatt hours (measured)
2. Total electric energy generated in COG region, megawatt hours (measured)
3. Total electric energy imported into COG region, megawatt hours (measured/estimated)
4. Per capita electric energy consumed in COG region, kilowatt hours per person per year (estimated)
5. Total electric energy generated/consumed in source categories (coal, nuclear, natural gas, hydro, renewables, other)
6. Total natural gas/propane consumed for heating in COG region, therms (measured)
7. Total gasoline sold in COG region, million gallons (measured)
8. Fleet average miles per gallon (estimated)

**Climate Change**

1. Total greenhouse gas emissions in COG region, million metric tonnes CO2 equivalents per year (estimated)
2. Greenhouse gas emissions in COG region by category, million metric tonnes CO2 equiv per year (estimated)
3. Per capita greenhouse gas emissions in COG region, metric tonnes CO2 equiv per year (estimated)
4. Total days above 90 degrees F in region (measured)
5. Total days above 100 degrees F in region (measured)
6. Total precipitation in region, inches/year (measured)
7. Number of days with precipitation events above X inches (measured)