# **ITEM 10** - Information

May 17, 2006

# Update on Air Quality Planning Activities

| Staff<br>Recommendation: | Receive briefing on the enclosed memorandum of four ongoing work activities:   |  |  |  |  |  |  |  |
|--------------------------|--|--|--|--|--|--|--|--|
|                          | •  | results from applying a vehicle identification<br>number (VIN) decoder to July 1, 2005 vehicle<br>registration data; |  |  |  |  |  |  |
|                          | •  | comparison of "monthly versus seasonal"<br>approaches to estimation of yearly mobile<br>source emissions;            |  |  |  |  |  |  |
|                          | •  | status of Round 7.0a cooperative forecasts;<br>and   |  |  |  |  |  |  |
|                          | •  | a status report on 8-hour ozone SIP work activities and schedule.  |  |  |  |  |  |  |
| Issues:                  | None   | e  |  |  |  |  |  |  |
| Background:              | TPB staff has been involved throughout the year in<br>supporting the Metropolitan Washington Air Quality<br>Committee (MWAQC) in the preparation of mobile<br>source emission inventories needed for State<br>Implementation Plans. This item provides a status<br>report on some of these activities. |  |  |  |  |  |  |  |

# National Capital Region Transportation Planning Board

777 North Capitol Street, N.E., Suite 300, Washington, D.C. 20002-4290 (202) 962-3310 Fax: (202) 962-3202

### MEMORANDUM

May 10, 2006

| To:      | Transportation Planning Board                                 |
|----------|---|
| From:    | Michael J. Clifford<br>Systems Planning Applications Director |
| Subject: | Update on Air Quality Planning Activities                     |

attached descriptive material, are as follows.

This agenda item is designed to provide the Board with an overview of several ongoing work activities in the air quality planning area. These topics, each of which has some

**1. 'VIN Decode' Results** This project involves reading a 'vehicle identification number' (VIN) from District of Columbia, Maryland and Virginia vehicle registration files to extract information such as vehicle age, weight and fuel type, i.e., characteristics which are relevant to vehicle emissions rates. The first attachment is Daivamani Sivasailam's memo to files, which documents the results of the VIN Decoder project. Since the appendices to his memo are lengthy they are not reproduced here, but are available on the COG website. These data are currently being used in SIP planning work and will be used in subsequent air quality conformity assessments. Additional information will be presented at the May 17<sup>th</sup> TPB meeting.

**2. Monthly Vs. Seasonal VOC Results** The second attachment is an email transmittal of three charts from me to Sunil Kumar on the COG/DEP staff, to conclude discussion of 'monthly vs. seasonal' approaches to the estimation of total yearly mobile source emissions. The charts, prepared at the request of the Metropolitan Washington Air Quality Committee (MWAQC)'s Emissions Inventory Working Group, show the comparison of 'precursor VOC' rates for each approach. The charts verify that similar rates are obtained using either approach for this pollutant, consistent with the previous similar emissions results seen for PM2.5 and 'precursor NOx'.

**3. Round 7.0a Cooperative Forecasts** The third attachment is a memo from Paul DesJardin on the COG/HSPPS staff, which reports further progress in the formal development of the Round 7.0a Cooperative Forecasts which are to be utilized in the air quality conformity assessment of the 2006 CLRP and FY2007-12 TIP. He also notes that these forecasts will incorporate the Baltimore Metropolitan Council's latest adopted

forecasts, Round 6B.

**4. SIP Schedule** The fourth attachment contains COG/DEP's current schedule for development of the 8-hour ozone state implementation plan. Work efforts are well along in this planning effort to produce a new air quality attainment plan for the region, which will set new mobile source emissions budgets for transportation.

Staff will provide additional details on each of these items at the May 17<sup>th</sup> TPB meeting.

Attachments (4)

# ATTACHMENT A

### Memorandum

| May 10, 2006 |   |
|--------------|---|
| То:          | VIN Decoder Project Files   |
| From:        | Daivamani Sivasailam<br>Principal Transportation Engineer   |
| Subject:     | Development of vehicle age distributions and diesel vehicle percentages using VIN decoder software - Overview |

### Introduction

This memorandum summarizes the methodology used, and the results obtained, in developing Mobile 6 input files of vehicle characteristics data summarized from 2005 District of Columbia, Maryland and Virginia vehicle registration data. The Mobile 6 model requires age distribution (1-25+ years) and diesel fueled vehicle percentages for 16 separate vehicle types (passenger cars, motorcycles, light trucks, and heavy trucks in ascending weight categories). The model then generates 28 vehicle types by applying the diesel percentages to the relevant vehicle types. This work continues the cycle of obtaining consistent vehicle registrations on a 3 year basis. These results will be used in the development of the mobile source emissions inventories for state implementation plan (SIP) preparation, starting with immediate application in the 8-Hour Ozone plan, and in air quality conformity assessments.

### Background

In FY 2005, Department of Transportation Planning staff embarked on a pilot test of VIN decoder software. Samples of VIN data were obtained from the District of Columbia, Maryland, and Virginia and they were decoded using software called VINPOWER developed by ESP Data Solutions. From the decoded database, age distributions and diesel vehicle percentages for sixteen vehicle types were developed. The resulting distributions were compared with (2002) distributions previously developed from DMV data by the air agencies. Staff concluded that the software could be used to develop vehicle age distributions and diesel vehicle percentages for calendar year 2005. In FY 2006 staff purchased the full version of the decoder software and internally developed the program required to run the software in a batch mode.

### **Application of VIN Decoder**

During spring 2005, the air agencies were asked to provide registration data including VIN numbers as of July 1, 2005. DTP staff received the data in early fall and, after data were cleaned of duplicates, successfully decoded the vehicle identification using the VIN decoder software. Staff then executed several work tasks to translate the decoded data into the vehicle type, age and fuel type categories required by the Mobile 6 model. These steps are documented in the 3 appendices attached to this memorandum, one each for the District of Columbia, Maryland, and Virginia. Attachments 1 and 2 provide summary data for each jurisdiction in terms of fleet mix and vehicle age, respectively.

### **Committee Review**

Several conference calls and meetings were held with air and transportation department representatives to discuss the results, and a number of changes were suggested to improve the vehicle age distributions and diesel vehicle percentages. Changes incorporated to date are as follows:

### 1) Vehicles Aged 25 Years and Older:

Since the VIN decoder software used could not fully decode vehicles manufactured prior to 1980, staff used the registration data base (which contained control totals of total number of vehicle registrations by model year) to identify the total number of vehicles that were 25 years and older. These vehicles were then distributed among the 16 vehicle types using the vehicle type distribution of vehicles aged 20 through 24 that were decoded using the software.

### 2) Transit Bus (Diesel) vs. Shuttle Bus (Gas) categories

Under the 28 vehicle categories there are three bus categories namely, heavy duty diesel transit bus, heavy duty diesel school bus and heavy duty gas bus. The heavy duty gas bus would include school, transit and other types of buses. None of the heavy duty gas buses were assigned to transit bus, since the Mobile 6 guidance states that all urban transit buses are diesel. Since the gas buses were mostly small shuttle buses they were distributed among the heavy duty vehicle types HDV2B, HDV3, and HDV6 using the gross vehicle weight of the gas buses as determined by the VIN decoder.

### 3) School Bus and Transit Bus Age Distribution: Actual vs. Default Data

It was decided to use the VIN decoded transit and school bus registration data instead of the Mobile 6.2 defaults as was done previously, despite the 'peaks' occasioned by the periodic purchase of vehicles.

### 4) Light Duty Diesel Truck Categories (2 for Diesel, 4 for Gas)

Under the 28 vehicle categories there are four light gas trucks (LDGT1, LDGT2, LDGT3, and LDGT4). However, there are only two light duty diesel trucks, with the light duty diesel trucks 1 and 2 combined into one category (LDDT12) and light duty diesel trucks 3 and 4 into one category (LDDT34). The two light duty diesel truck categories were distributed among the four light duty trucks 1, 2, 3, and 4 based on the gross vehicle weight as determined by the VIN decoder.

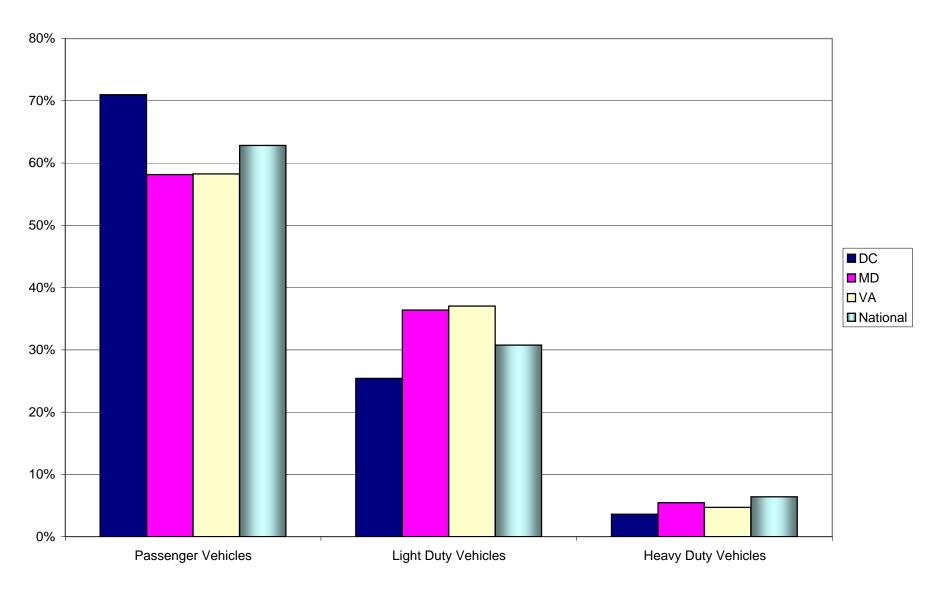
### 5) Aggregation of Diesel Fractions by Jurisdiction

In Maryland and Northern Virginia, age distributions by vehicle type were developed at the county level. However, diesel vehicle percentages were aggregated to one representing Maryland and one for Northern Virginia. The District's data were combined with the Maryland jurisdictions to develop a diesel vehicle percentage for the District of Columbia.

Appendices 1–3 contain the detailed documentation memorandum for each state along with the Mobile 6.2 input files available for use in the 8-hour ozone emissions inventory work.

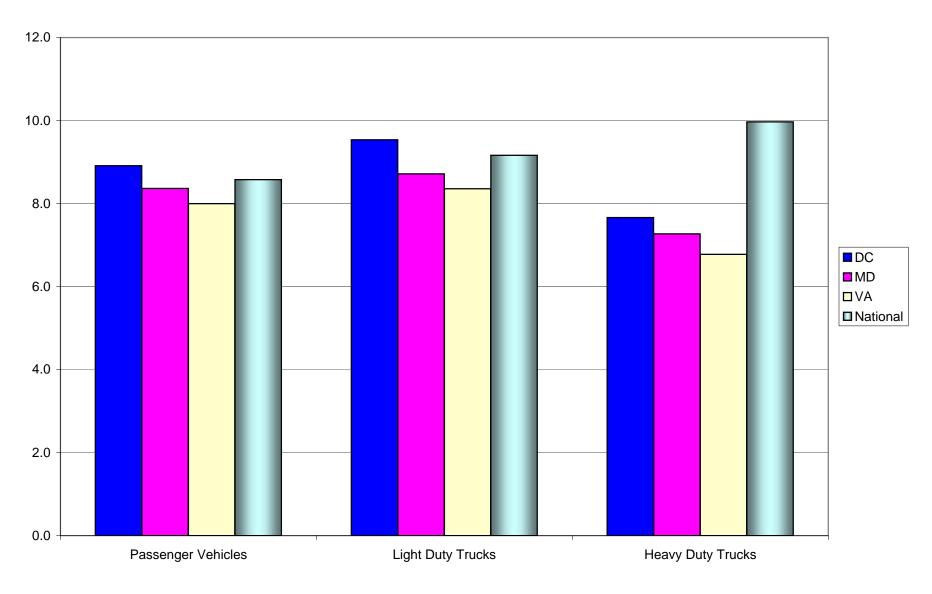
Attachments (2) Appendices (3)

## Attachment I



# Vehicle Fleet Distributed by Vehicle Type for the Washington Metropolitan Area

## Attachment 2



# Average Vehicle Age for the Washington Metropolitan Area

# ATTACHMENT B

From: Mike Clifford
Sent: Monday, May 01, 2006 1:26 PM
To: Sunil Kumar
Cc: Eulalie Gower-Lucas; Daivamani Sivasailam; Jane Posey
Subject: Transmittal of VOC emissions rates for monthly vs. seasonal inventory methods

Sunil,

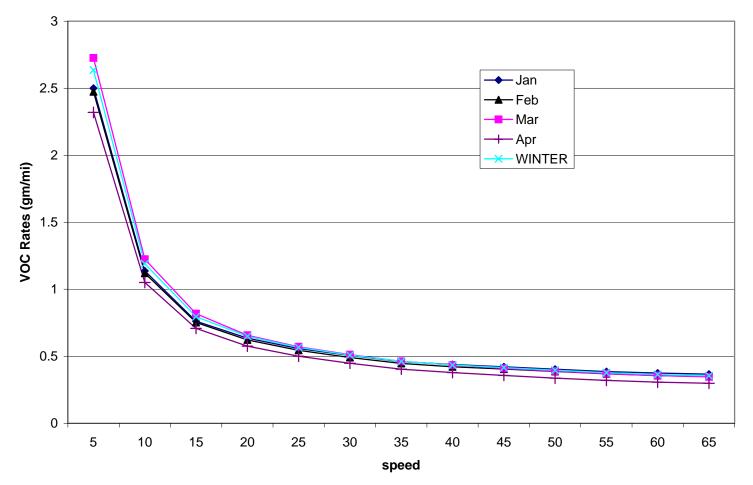
At the Emissions Inventory Working Group conference call on April 13<sup>th</sup> we discussed comparisons of monthly versus seasonal mobile source emissions inventory results. The group was comfortable with proceeding with the 3 season approach, but asked for a review of VOC emissions factors using the 2 different approaches.

DTP staff has now completed such a comparison for several jurisdictions in the region. The attached pdf file illustrates the monthly vs. seasonal comparison using DC as an example. (Such VOC rates had been generated as part of the earlier monthly and seasonal Mobile6 runs but the rates had not been formatted, so programming steps had to be carried out to produce the VOC rates.) The rates in the attached plots show a close association for the monthly and seasonal values throughout the year, throughout the vehicle speed range.

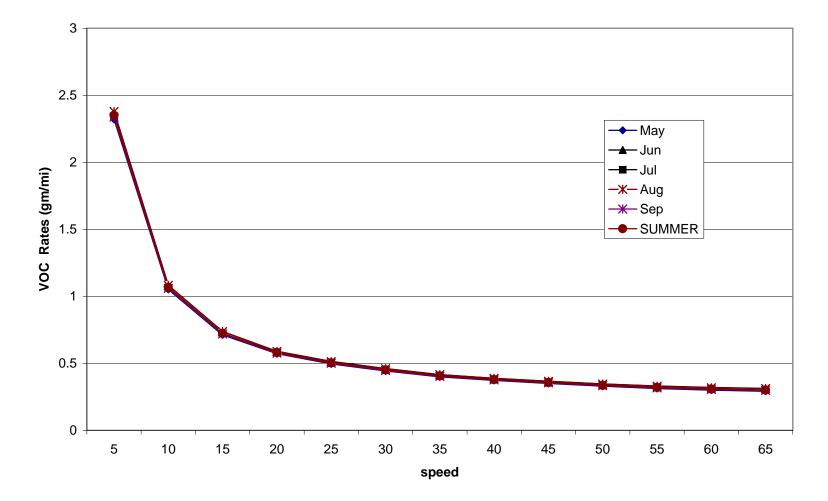
Thank you for your data review work in discussing initial results. Please distribute these data to the participants on the working group conference call.

Mike

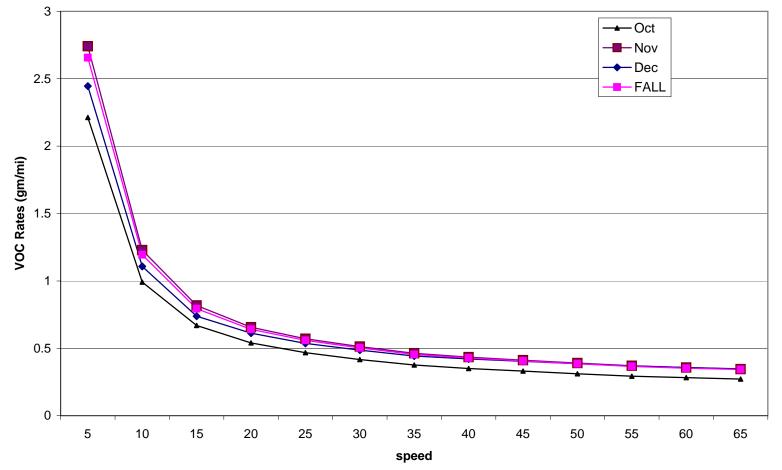




Attachment B Comparison of 2002 Mobile VOC Rates by Month and Season for DC Freeways Summer Season







METROPOLITAN WASHINGTON

**COUNCIL OF GOVERNMENTS** 

Local governments working together for a better metropolitan region

ATTACHMENT C

### District of Columbia MEMORANDUM

| Bowle                  |               |  |  |  |  |  |  |  |
|------------------------|---------------|--|--|--|--|--|--|--|
| College Park           | D (           | 1.25.0007  |  |  |  |  |  |  |
| Frederick County       | Date:         | April 25, 2006   |  |  |  |  |  |  |
| Gaithersburg           | T             |  |  |  |  |  |  |  |
| Greenbelt              | To:           | Michael Clifford   |  |  |  |  |  |  |
| Montgomery County      |               | Department of Transportation Planning  |  |  |  |  |  |  |
| Prince George's County |               |  |  |  |  |  |  |  |
| Rockville              | From:         | Paul DesJardin   |  |  |  |  |  |  |
| Takoma Park            |               | Department of Human Services, Planning and Public Safety                         |  |  |  |  |  |  |
| Alexandria             | G 1 •         |  |  |  |  |  |  |  |
| Arlington County       | Subject:      | Planning Directors Approval of Round 7.0a Cooperative Forecasts                  |  |  |  |  |  |  |
| Fairfax                |               |  |  |  |  |  |  |  |
| Fairfax County         | 0             | arch 17 meeting of the Planning Directors Technical Advisory Committee           |  |  |  |  |  |  |
| Falls Church           |               | e District of Columbia requested the opportunity to modify their current         |  |  |  |  |  |  |
| Loudoun County         |               | Cooperative Forecasts to reflect land use changes relating to the recently       |  |  |  |  |  |  |
| Manassas               |               | gn of the Washington Nationals stadium, released on March 15 <sup>th</sup> , and |  |  |  |  |  |  |
| Manassas Park          |               | rastructure improvements to be included in this year's update of the TPB's       |  |  |  |  |  |  |
| Prince William County  | Constrained L | Long Range Plan (CLRP) and Transportation Improvement Program (TIP).             |  |  |  |  |  |  |
|                        |               |  |  |  |  |  |  |  |

The District of Columbia Office of Planning (DCOP) analyzed the likely impacts of the stadium and requested a modification to the employment, population and household Forecasts for the transportation analysis zone (TAZ) in which it is to be constructed and, during their April 21 meeting, the PDTAC approved the requested changes. As described in the attached memorandum and summary tables, the District anticipates that between 2005 and 2030, total employment in the TAZ would grow by 3,000 jobs, while the total number of households would increase by more than 1,300 during the same period.

The summary tables also reflect the Baltimore Metropolitan Council's (BMC) Round 6B Cooperative Forecasts, approved last Fall. As can be seen in the comparison tables, the new BMC Forecasts for 2030 are approximately 39,700 jobs higher, while the population and household projections for 2030 have increased, respectively, by approximately 5,800 people and 1,600 households.

Should you have any additional questions regarding this matter, please don't hesitate to contact me on extension 3293.

cc:

Ronald Kirby Robert Griffiths Calvin Smith Stuart Freudberg

## GOVERNMENT OF THE DISTRICT OF COLUMBIA



Office of the Director

April 19, 2006

Mr. Paul DesJardin Planning Section Manager Metropolitan Washington Council of Governments 777 North Capitol Street, NE, Suite 300 Washington, DC 20002-4239

Dear Mr. DesJardin,

Thank you for this opportunity to provide the Council of Governments with updated partial forecast for the Round 7.0a, with specific reference to Traffic Analysis Zone (TAZ) 174, in which the Baseball Stadium will be located. The following table provides a summary of the changes in households, population, and employment projected for the next twenty-five years. The attached spreadsheet provides more detailed comparisons between Round 7.0 and partial Round 7.0a.

|            | 2005  | 2010  | 2015  | 2020  | 2025  | 2030  | 2005-2030 |
|------------|-------|-------|-------|-------|-------|-------|-----------|
|            |       |       |       |       |       |       |           |
| Households | 12    | 13    | 338   | 663   | 988   | 1,313 | +1,301    |
| Population | 19    | 19    | 507   | 995   | 1,482 | 1,970 | +1,951    |
| Employment | 1,097 | 1,597 | 2,847 | 3,347 | 3,747 | 4,097 | +3,000    |

### District of Columbia Round 7.0a Partial Forecasts for TAZ 174

Round 7.0a shows an increase of 1,300 households between 2005 and 2030. This is due to three planned and proposed projects resulting in additional housing units. The three projects are the Florida Rock Project, South Capitol and N St., and Half & N. St. Together, they will add 1,300 units, which is an additional 1,000 units over what was previously forecast in Round 7.0.

The population projection for TAZ 174 will change as well. The net addition of 1,300 households, with an assumed household size of 1.5 persons, will result in an increase of population in that area by about 1,950 persons. This represents an increase from Round 7.0 of 1,300 persons.

The employment forecast for TAZ 174 was adjusted in Round 7.0a to account for the changed land use of that area. Round 7.0 forecast was based on proposed plans to build one or more office complex in that area. However, since the baseball stadium will occupy most of the area, employment over the next 25 years is forecast to increase by 3,000, which is 679 jobs less than the previous forecast.

If you have any questions regarding our forecast, please contact Joy Phillips of our office at (202) 442-7630.

Sincerely,

Charles C. Graves Deputy Director of Long Range Planning D.C. Office of Planning

### **District of Columbia**

#### Households, Population & Employment Forecast for TAZ 174 (Baseball Stadium)

Note: Round 7.0 is the previously approved data, while Round 7.0a is the newly required subset of the previous data

| Round 7.0 for TAZ 174  | 2005  | 2010  | 2015  | 2020  | 2025  | 2030  |
|------------------------|-------|-------|-------|-------|-------|-------|
| Households 7.0         | 12    | 13    | 293   | 301   | 308   | 313   |
| Population 7.0         | 19    | 19    | 624   | 642   | 659   | 669   |
| Employment 7.0         | 1,307 | 1,741 | 3,533 | 3,816 | 4,899 | 4,986 |
|                        |       |       |       |       |       |       |
| Round 7.0a for TAZ 174 | 2005  | 2010  | 2015  | 2020  | 2025  | 2030  |
| Households 7.0a        | 12    | 13    | 338   | 663   | 988   | 1,313 |
| Population 7.0a        | 19    | 19    | 507   | 995   | 1,482 | 1,970 |
| Employment 7.0a        | 1,097 | 1,597 | 2,847 | 3,347 | 3,747 | 4,097 |
|                        |       |       |       |       |       |       |

|                 | Households Cha |                               |           |           |        |       |           |  |  |  |  |
|-----------------|----------------|-------------------------------|-----------|-----------|--------|-------|-----------|--|--|--|--|
|                 | 2005           | 2010                          | 2015      | 2020      | 2025   | 2030  | 2005-2030 |  |  |  |  |
| Households 7.0  | 12             | 13                            | 293       | 301       | 308    | 313   | 301       |  |  |  |  |
| Households 7.0a | 12             | 13                            | 338       | 663       | 988    | 1,313 | 1,301     |  |  |  |  |
|                 |                | Chang                         | e from pr | evious fo | recast |       | 1,000     |  |  |  |  |
|                 |                | Population Cha                |           |           |        |       |           |  |  |  |  |
|                 | 2005           | 2010                          | 2015      | 2020      | 2025   | 2030  | 2005-2030 |  |  |  |  |
| Population 7.0  | 19             | 19                            | 624       | 642       | 659    | 669   | 650       |  |  |  |  |
| Population 7.0a | 19             | 19                            | 507       | 995       | 1,482  | 1,970 | 1,951     |  |  |  |  |
|                 |                | Chang                         | e from pr | evious fo | recast |       | 1,301     |  |  |  |  |
|                 |                |                               | Employ    | vment     |        |       | Change    |  |  |  |  |
|                 | 2005           | 2010                          | 2015      | 2020      | 2025   | 2030  | 2025-2030 |  |  |  |  |
| Employment 7.0  | 1,307          | 1,741                         | 3,533     | 3,816     | 4,899  | 4,986 | 3,679     |  |  |  |  |
| Employment 7.0a | 1,097          | 1,597                         | 2,847     | 3,347     | 3,747  | 4,097 | 3,000     |  |  |  |  |
|                 |                | Change from previous forecast |           |           |        |       |           |  |  |  |  |

### **Summary of Intermediate Employment Forecasts Round 7.0a Cooperative Forecasts** (Thousands)

**DRAFT Planning Directors Technical** Advisory Committee - April 21, 2006

| JARSDICTION         2000         2005         2010         2015         2016         2016         2018         Number V Change         Share           District of Columbia         743.6         744.8         783.5         816.0         829.5         843.8         859.1         115.5         15.5%         8.3%           Cing of Nearadina'         803         1055         1.78         237.8         437.8         44.7         44.7         44.7         44.7         44.8         44.7         438.8         338.7         330.0         424.0         610.0         547.0         20.8         44.8         497.7         47.34         14.8%<  |                                   | (1      | l nousai | iusj    |         |         |         | г       | 2000 /       | 2020     |              |
|---|-----------------------------------|---------|----------|---------|---------|---------|---------|---------|--------------|----------|--------------|
| District of Columbia<br>Arlington County         743.6         744.8         783.5         816.0         829.5         843.8         859.1         115.5         15.5%         83.3%           Arlington County         182.6         195.2         217.8         237.8         237.8         237.8         237.8         237.8         237.8         237.8         237.8         237.8         427.8         67.7%         42.7%           Central Jurisdictions         1.015.5         1.045.6         1.114.5         1.17.0         1.216.5         1.238.7         1.238.7         1.238.7         1.238.7         1.247.7         2.64.6         6.10.4.7         2.64.6         4.14.3%           Fuire George's County (1)         474.3         5.00.0         615.0         615.0         615.0         615.0         615.3         3.73         3.93         10.5         3.65.7%         0.8%         1.45%         1.46%         1.45%         1.46%         1.25%         0.8%         0.8%         0.15%         0.15%         0.15%         0.15%         0.15%         0.15%         0.15%         0.15%         0.15%         0.15%         0.16%         0.16%         0.16%         0.16%         0.16%         0.15%         0.15%         0.15%         0.15%         0  | IUDISDICTION                      | 2000    | 2005     | 2010    | 2015    | 2020    | 2025    | 2020    |              |          | MSA Regional |
| Artington County       182.6       105.2       217.8       224.4       203.6       275.8       254.4       203.6       275.8       254.4       6.75.6       6.75.6         City of Alexandria       89.3       105.6       113.3       123.2       132.5       141.3       148.0       88.7       657.6       4.256         Central Jurisdictions       1,015.5       1,045.6       1,114.5       1,170.0       1,216.5       1,248.7       1,282.9       267.4       26.3%       19.2%         Montgomery County (1)       67.3       75.3       87.6       93.7       0.99       102.1       104.7       26.4       64.0%       1,41.%         Ruckville (2)       68.7       77.0       600.5       683.9       72.6       77.4       81.4       84.6       1.9%       1.60.9%       1,48.%         City of Fails Church       9.5       9.5       11.8       15.1       17.8       19.9       20.3       10.8       113.7%       0.8%         Londonn County       90.5       122.7       153.7       138.8       21.9       24.0       271.2       180.6       199.6%       6.6%         City of Fails Church       9.5       122.7       133.3       35.1       156.0   | JURISDICTION                      | 2000    | 2003     | 2010    | 2015    | 2020    | 2025    | 2030    | Trumber 7    | o Change | Share        |
| Artington County       182.6       105.2       217.8       224.4       203.6       275.8       254.4       203.6       275.8       254.4       6.75.6       6.75.6         City of Alexandria       89.3       105.6       113.3       123.2       132.5       141.3       148.0       88.7       657.6       4.256         Central Jurisdictions       1,015.5       1,045.6       1,114.5       1,170.0       1,216.5       1,248.7       1,282.9       267.4       26.3%       19.2%         Montgomery County (1)       67.3       75.3       87.6       93.7       0.99       102.1       104.7       26.4       64.0%       1,41.%         Ruckville (2)       68.7       77.0       600.5       683.9       72.6       77.4       81.4       84.6       1.9%       1.60.9%       1,48.%         City of Fails Church       9.5       9.5       11.8       15.1       17.8       19.9       20.3       10.8       113.7%       0.8%         Londonn County       90.5       122.7       153.7       138.8       21.9       24.0       271.2       180.6       199.6%       6.6%         City of Fails Church       9.5       122.7       133.3       35.1       156.0   | District of Columbia              | 743 6   | 744 8    | 783 5   | 816.0   | 829 5   | 843.8   | 859.1   | 115.5        | 15.5%    | 8.3%         |
| City of Alexandria         89.3         105.6         113.3         123.2         132.5         141.3         148.0         58.7         65.7%         42.2%           Central Jurisdictions         1,015.5         1,045.6         1,114.5         1,17.0         1,216.5         1,248.7         1,282.9         267.4         26.3%         192.2%           Montgomery County (1)         47.3         500.0         545.0         580.0         615.0         645.0         670.0         104.7         36.0         52.33%         2.26%           Prines George's County (3)         373.3         383.3         387.7         390.0         424.0         400.9         501.0         544.7         206.4         61.0%         14.25%           City of Fairfax Cunty (3)         57.0         6.00.5         87.39         72.6         77.4         7.118         192.9         20.3         10.8         11.3.7%         0.8%         0.8%           Inner Suburbs         1,427.8         1,498.0         1,662.0         1,782.1         193.5         2,017.4         2,118.9         691.0         48.4%         49.7%         0.35%         2,118.9         691.0         48.4%         6.8%         6.8%         6.8%         13.0%         13.0% <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>   |                                   |         |          |         |         |         |         |         |              |          |              |
| Central Jurisdictions         L015.5         L045.6         L,117.0         L216.5         L248.7         L282.7         Z67.4         Z6.3%         19.2%           Montgomery County (1)         67.7         75.3         87.6         93.7         99.9         90.21         10.1         10.47         Z6.0         21.43%         L11%           Prince Gonzy County (3)         537.0         600.5         683.9         72.6         77.45         814.2         84.6         20.76         44.3%         L11%           City of Fair Church         9.5         9.5         11.8         15.1         17.8         19.9         20.3         10.8         11.57         0.855         0.856           City of Fair Church         9.5         12.2         153.7         183.8         21.2.9         24.20         27.1.2         180.6         199.6%         6.30%           City of Manassas         2.2.7         153.7         183.8         21.2.9         24.20         27.1.2         180.6         199.6%         6.3%         6.3%         6.3%         6.3%         6.3%         6.3%         6.3%         6.3%         6.3%         6.3%         6.3%         6.3%         6.3%         6.3%         6.3%         6.3%         6.   | 0                                 |         |          |         |         |         |         |         |              |          |              |
| Montgomery County (1)         474.3         500.0         545.0         580.0         615.0         645.0         670.0         195.7         41.3%           Ruck cille (2)         68.7         75.3         87.6         99.7         99.9         102.1         104.7         36.0         52.3%         2.6%           Funce Goorge Y County         338.3         58.7         390.0         424.0         460.9         501.0         544.7         206.4         60.9%         102.1         104.7         206.4         60.9%         11.43%         207.6         46.4%         11.43%         207.6         46.4%         11.43%         207.6         46.4%         11.43%         207.6         11.8         151         17.8         19.9         20.3         10.8         113.7%         0.8%         0.8%           Londoun County         90.5         122.7         153.7         183.8         212.9         242.0         271.2         180.6         199.6%         6.6%         6.6%         6.6%         6.6%         6.6%         6.6%         6.6%         0.2%         4.3         191.9%         0.3%         0.3%         0.3%         0.3%         0.3%         0.3%         0.3%         0.3%         0.3%         0.3%  |                                   |         |          |         |         |         |         |         |              |          |              |
| NewCillic (1)         68.7         75.3         87.6         99.7         99.9         102.1         104.7         36.0         52.3%         2.6%           Prince Goorge Sounty         338.3         358.7         390.0         424.0         460.9         501.0         544.7         206.4         61.0%         148.9%           City of Fairfax (4)         28.8         29.2         31.3         33.3         353.3         373.3         99.3         10.8         36.5%         0.8%           City of Fairfax (4)         28.8         29.2         11.3         13.3         33.3         35.3         373.3         99.3         10.8         36.5%         0.8%           City of Fairfax (4)         28.8         29.2         11.3         13.33         35.3         373.3         99.4         10.8         36.0%         6.0%         0.8%         0.16%         0.8%         0.8% </th <th>Central Jurisdictions</th> <th>1,015.5</th> <th>1,045.6</th> <th>1,114.5</th> <th>1,177.0</th> <th>1,216.5</th> <th>1,248.7</th> <th>1,282.9</th> <th>267.4</th> <th>26.3%</th> <th>19.2%</th> | Central Jurisdictions             | 1,015.5 | 1,045.6  | 1,114.5 | 1,177.0 | 1,216.5 | 1,248.7 | 1,282.9 | 267.4        | 26.3%    | 19.2%        |
| Prince George's County         338.3         358.7         990.0         424.0         460.9         501.0         54.47         206.4         61.0%         14.89%           City of Fairfax (4)         28.8         29.2         31.3         33.3         35.3         37.3         39.3         10.5         56.5%         0.88%           City of Fairfax (4)         28.8         29.2         31.3         33.3         35.3         37.3         39.3         10.8         115.7%         0.88%           City of Fairfax (4)         28.8         29.2         11.8         15.1         17.8         19.9         20.3         10.8         113.7%         0.88%           Loudoun County         90.5         122.7         153.7         18.8.8         212.9         242.0         271.2         180.6         199.6%         13.0%           Prince Willam County         90.5         122.7         13.4         4.6         4.7         4.8         4.9         2.2         79.5%         0.2%         Calver County (5)         22.8         29.4         45.2         6.6         6.7         6.1         3.7         4.9         2.2         55.5%         0.2%         Calver County (5)         22.8         2.4         3.2  | Montgomery County (1)             | 474.3   | 500.0    | 545.0   | 580.0   | 615.0   | 645.0   | 670.0   | 195.7        | 41.3%    | 14.1%        |
| Fairfax County (3)       770.0       600.5       683.9       729.6       774.5       814.2       844.6       267.6       46.4%       192.5%         City of Fails Church       9.5       9.5       11.8       15.1       17.8       19.9       20.3       10.8       113.7%       0.8%         Inner Suburbs       1,427.8       1,498.0       1,662.0       1,782.0       1,903.5       2,017.4       2,118.9       691.0       48.4%       49.7%         Loudoun County       90.5       122.7       153.7       183.8       212.9       242.0       271.2       180.6       199.6%       6.6%       6.6%       67%       01.4       0.5%       0.2% </td <td>Rockville (2)</td> <td>68.7</td> <td>75.3</td> <td>87.6</td> <td>93.7</td> <td>99.9</td> <td>102.1</td> <td>104.7</td> <td>36.0</td> <td>52.3%</td> <td>2.6%</td>  | Rockville (2)                     | 68.7    | 75.3     | 87.6    | 93.7    | 99.9    | 102.1   | 104.7   | 36.0         | 52.3%    | 2.6%         |
| City of Fairfax (4)       28.8       29.2       31.3       33.3       35.3       77.3       39.3       10.5       36.5%       0.8%         City of Fails Church       9.5       9.5       11.8       15.1       17.8       19.9       20.3       10.8       13.7%       0.8%         Inner Suburbs       1,427.8       1,498.0       1,662.0       1,782.0       1,903.5       2,017.4       2,118.9       691.0       48.4%       49.7%         Loudoun County       90.5       122.7       153.7       183.8       212.9       242.0       271.2       180.6       66.6%       6.6%       6.6%       6.6%       0.3%   | Prince George's County            | 338.3   | 358.7    | 390.0   | 424.0   | 460.9   | 501.0   | 544.7   | 206.4        | 61.0%    | 14.8%        |
| City of Falls Church       9.5       9.5       11.8       15.1       17.8       19.9       20.3       10.8       11.37%       0.8%         Inner Suburbs       1,427.8       1,498.0       1,662.0       1,782.0       1,903.5       2,017.4       2,118.9       691.0       48.4%       49.7%         Loudoun County       90.5       122.7       153.7       183.8       212.9       24.0       271.2       180.6       199.6%       6.6%       6.6%         City of Manassas       22.5       23.3       24.6       126.7       25.3       13.4%       6.22.0       271.2       180.6       199.6%       6.6%       6.6%       6.79       0.91.4       9.65%       0.9%       0.2% <td>Fairfax County (3)</td> <td>577.0</td> <td>600.5</td> <td>683.9</td> <td>729.6</td> <td>774.5</td> <td>814.2</td> <td>844.6</td> <td>267.6</td> <td>46.4%</td> <td>19.2%</td>   | Fairfax County (3)                | 577.0   | 600.5    | 683.9   | 729.6   | 774.5   | 814.2   | 844.6   | 267.6        | 46.4%    | 19.2%        |
| Inner Suburbs         1,427.8         1,498.0         1,662.0         1,782.0         1,903.5         2,017.4         2,118.0         691.0         48.4%         49.7%           Londoun County         90.5         122.7         153.7         183.8         212.9         242.0         271.2         180.6         190.6%         6.6%           City of Manassas         22.5         23.3         24.6         26.2         20.3         26.6         26.8         4.3         19.1%         0.3%           Calvert County (5)         22.8         29.4         32.9         33.7         34.5         35.1         15.6         12.8         55.9%         0.0%           Calvert County (5)         41.9         56.5         62.9         64.8         66.8         67.9         67.1         71.0         73.7%         5.1%           Stafford County (6)         30.5         38.3         46.1         52.7         79.2         66.3         73.4         42.9         140.9%         31.1%           Anne Arandel County (7)         68.3         76.3         84.3         86.08         88.3         89.3         90.3         22.0         32.2%         m/a           Moard County (7)         68.7         76.3 <td>City of Fairfax (4)</td> <td>28.8</td> <td>29.2</td> <td>31.3</td> <td>33.3</td> <td>35.3</td> <td>37.3</td> <td>39.3</td> <td>10.5</td> <td>36.5%</td> <td>0.8%</td>                                       | City of Fairfax (4)               | 28.8    | 29.2     | 31.3    | 33.3    | 35.3    | 37.3    | 39.3    | 10.5         | 36.5%    | 0.8%         |
| Loudoun County         90.5         122.7         153.7         183.8         212.9         242.0         271.2         180.6         199.6%         13.0%           Prince William County         94.6         111.6         128.6         143.7         159.1         173.5         186.0         91.4         96.6%         6.6%           City of Manassas         22.5         23.3         24.6         26.2         20.3         26.6         24.3         19.1%         0.3%           Calvert County (5)         22.8         29.4         32.9         33.7         34.5         35.1         13.5         12.8         55.9%         0.0%           Calvert County (5)         41.9         56.5         62.9         64.8         66.8         67.9         67.1         71.0         73.7%         51%           Stafford County (6)         30.5         38.3         46.1         52.7         59.2         66.3         73.4         42.9         140.9%         31.1%           Outer Suburbs         401.9         506.9         595.8         60.9         71.9         79.7         834.3         432.4         107.6%         31.1%           Arme Arandel County (7)         207.0         317.1         334.7  | City of Falls Church              | 9.5     | 9.5      | 11.8    | 15.1    | 17.8    | 19.9    | 20.3    | 10.8         | 113.7%   | 0.8%         |
| Prince William County       94.6       111.6       128.6       143.7       159.1       173.5       186.0       91.4       96.6%       6.6%         City of Manassas       22.5       23.3       24.6       26.3       26.6       26.8       43.3       19.1%       0.3%         City of Manassas Park       2.7       30.4       34.5       35.1       35.6       12.8       55.9%       0.2%         Calvert County (5)       41.9       56.6       62.9       64.8       66.8       67.9       69.1       72.2       55.9%       0.2%         Charles County (5)       41.9       56.6       22.2       142.4       151.5       158.3       163.5       167.3       71.0       73.7%       51.9%         Stafford County (6)       30.5       38.3       46.1       52.7       59.2       66.3       73.4       42.9       140.9%       31.1%         Anne Arundel County (7)       68.3       76.3       84.3       86.8       88.3       89.3       90.3       22.0       32.2%       n/a         Anne Arundel County (7)       68.0       25.3       57.3.4       61.9.0       250.0       260.0       100.0       62.5%       n/a         Modeled Re  | Inner Suburbs                     | 1,427.8 | 1,498.0  | 1,662.0 | 1,782.0 | 1,903.5 | 2,017.4 | 2,118.9 | 691.0        | 48.4%    | 49.7%        |
| Prince William County       94.6       111.6       128.6       143.7       159.1       173.5       186.0       91.4       96.6%       6.6%         City of Manassas       22.5       23.3       24.6       26.3       26.6       26.8       43.3       19.1%       0.3%         City of Manassas Park       2.7       30.4       34.5       35.1       35.6       12.8       55.9%       0.2%         Calvert County (5)       41.9       56.6       62.9       64.8       66.8       67.9       69.1       72.2       55.9%       0.2%         Charles County (5)       41.9       56.6       22.2       142.4       151.5       158.3       163.5       167.3       71.0       73.7%       51.9%         Stafford County (6)       30.5       38.3       46.1       52.7       59.2       66.3       73.4       42.9       140.9%       31.1%         Anne Arundel County (7)       68.3       76.3       84.3       86.8       88.3       89.3       90.3       22.0       32.2%       n/a         Anne Arundel County (7)       68.0       25.3       57.3.4       61.9.0       250.0       260.0       100.0       62.5%       n/a         Modeled Re  | Loudoun County                    | 00 5    | 100.7    | 152 7   | 102 0   | 212.0   | 242.0   | 271.2   | 100 <i>C</i> | 100 407  | 12 00/       |
| City of Manassas       22.5       23.3       24.6       26.2       26.3       26.6       26.8       4.3       19.1%       0.3%         City of Manassas Park       2.7       3.0       4.5       4.6       4.7       4.8       4.9       2.2       79.5%       0.2%         Calvert County (5)       22.8       29.4       32.7       33.7       34.5       35.1       35.6       12.8       55.9%       0.9%         Charles County (6)       31.2       142.4       151.5       158.3       163.5       167.3       71.0       73.7%       51.9%       2.0%       2.0%         Stafford County (6)       30.5       38.3       46.1       52.7       59.2       66.3       73.4       42.9       140.9%       31.1%         Anne Arundel County (7)       297.0       31.7.1       334.7       357.1       379.6       401.5       423.3       126.3       42.5%       n/a         Anne Arundel County (7)       66.9       595.8       660.9       721.9       777.7       834.3       432.4       107.6%       31.1%         Anne Arundel County (7)       66.8       76.3       84.3       89.3       90.3       22.0       32.2%       n/a  | •                                 |         |          |         |         |         |         |         |              |          |              |
| City of Manassas Park       2.7       3.0       4.5       4.6       4.7       4.8       4.9       2.2       79.5%       0.2%         Calvert County (5)       22.8       29.4       32.9       33.7       34.5       35.1       35.6       12.8       55.9%       0.9%         Charles County (5)       41.9       56.5       62.9       64.8       66.8       67.9       69.1       27.2       65.0%       2.0%         Stafford County (6)       30.5       38.3       46.1       52.7       59.2       66.3       73.4       42.9       140.9%       31.1%         Outer Suburbs       401.9       506.9       595.8       660.9       721.9       779.7       834.3       432.4       107.6%       31.1%         Anne Arundel County (7)       297.0       317.1       334.7       357.1       370.6       401.5       423.3       126.3       42.5%       n/a         Moward County (7)       68.3       76.3       84.8       88.3       89.3       90.3       22.0       32.2%       n/a         Moward County (7)       160.0       180.0       200.0       215.0       230.0       245.0       100.0       22.0%       n/a         Model   | •                                 |         |          |         |         |         |         |         |              |          |              |
| Calvert County (5)       22.8       29.4       32.9       33.7       34.5       35.1       35.6       12.8       55.9%       0.9%         Charles County (5)       41.9       56.5       62.9       64.8       66.8       67.9       69.1       27.2       65.9%       2.0%         Frederick County (6)       30.5       38.3       46.1       52.7       59.2       66.3       73.4       42.9       140.9%       31.1%         Outer Suburbs       401.9       506.9       595.8       660.9       721.9       779.7       834.3       432.4       107.6%       31.1%         Anne Arundel County (7)       297.0       317.1       334.7       357.1       379.6       401.5       423.3       126.3       42.5%       n/a         Anne Arundel County (7)       297.0       317.1       334.7       357.1       37.6       401.5       423.3       126.3       42.5%       n/a         Modeled Region -       525.3       73.4       619.0       658.9       697.9       73.8       73.6       248.3       47.3%       n/a         King George County (6)       2.2       11.3       13.3       15.2       17.1       22.8       28.5       19.3       209.0%  |                                   |         |          |         |         |         |         |         |              |          |              |
| Charles County (5)       41.9       56.5       62.9       64.8       66.8       67.9       69.1       27.2       65.0%       2.0%         Frederick County       96.3       122.2       142.4       151.5       158.3       167.3       71.4       73.7%       53.1%         Outer Suburbs       401.9       506.9       595.8       660.9       721.9       779.7       834.3       432.4       107.6%       31.1%         Anne Arundel County (7)       297.0       317.1       334.7       357.1       379.6       401.5       423.3       126.3       12.0       32.2%       n/a         Moward County (7)       683.3       763.8       843.3       868.3       89.3       90.3       90.3       22.0       32.2%       n/a         Modeled Region -       525.3       573.4       619.0       658.9       697.9       735.8       773.6       248.3       47.3%       n/a         King George County (6)       9.2       11.3       13.3       15.2       17.1       22.8       28.5       19.3       209.0%       n/a         King George County (6)       9.2       11.3       13.3       15.2       17.1       22.8       28.5       19.3       209.0% <td>2</td> <td></td>  | 2                                 |         |          |         |         |         |         |         |              |          |              |
| Frederick County<br>Stafford County (6)       96.3       122.2       142.4       151.5       158.3       163.5       167.3       71.0       73.7%       5.1%         Stafford County (6)       30.5       38.3       46.1       52.7       59.2       66.3       73.4       42.9       140.9%       3.1%         Outer Suburbs       401.9       506.9       595.8       660.9       721.9       779.7       834.3       432.4       107.6%       31.1%         Anne Arundel County (7)       297.0       317.1       334.7       357.1       379.6       401.5       422.3       126.3       42.5%       n/a         Anne Arundel County (7)       68.3       76.3       84.3       86.8       88.3       89.3       90.3       120.0       32.2%       n/a         Modeled Region -       525.3       573.4       619.0       638.9       697.9       735.8       773.6       248.3       47.3%       n/a         King George County (6)       9.2       11.3       13.3       15.2       17.1       22.8       28.5       19.3       209.0%       n/a         King George County (6)       9.2       11.3       13.3       15.2       17.1       22.8       28.5       19.3  | • • •                             |         |          |         |         |         |         |         |              |          |              |
| Statford County (6)       30.5       38.3       46.1       52.7       59.2       66.3       73.4       42.9       140.9%       3.1%         Outer Suburbs       401.9       506.9       595.8       660.9       721.9       779.7       834.3       432.4       107.6%       31.1%         Anne Arundel County (7)       297.0       317.1       334.7       357.1       379.6       401.5       423.3       126.3       42.5%       n/a         Currell County (7)       68.3       76.3       84.3       86.8       88.3       89.3       90.3       126.3       42.5%       n/a         Modeled Region -       525.3       573.4       619.0       658.9       697.9       735.8       77.6       248.3       47.3%       n/a         King George County (6)       9.2       11.3       13.3       15.2       17.1       22.8       28.5       19.3       209.0%       n/a         King George County (6)       9.2       11.3       13.3       15.2       17.1       22.8       28.5       19.3       209.0%       n/a         King George County (6)       9.2       13.3       39.2       44.0       48.7       53.4       34.4       181.1%       n/a  | • • •                             |         |          |         |         |         |         |         |              |          |              |
| Outer Suburbs       401.9       506.9       595.8       660.9       721.9       779.7       834.3       432.4       107.6%       31.1%         Anne Arundel County (7)       297.0       317.1       334.7       357.1       379.6       401.5       423.3       126.3       42.5%       n/a         Carroll County (7)       663.3       76.3       84.3       86.8       88.3       89.3       90.3       22.0       32.2%       n/a         Modeled Region -       525.3       573.4       619.0       658.9       697.9       735.8       773.6       248.3       47.3%       n/a         King George County (6)       9.2       11.3       13.3       15.2       17.1       22.8       28.5       19.3       209.0%       n/a         Spotsylvania County (6)       9.2       11.3       13.3       15.2       17.1       22.8       28.5       19.3       209.0%       n/a         Modeled Region -       25.5       28.9       34.8       39.7       44.7       49.4       54.1       28.6       112.2%       n/a         Modeled Portion Onty       24.0       27.2       32.8       37.4       42.1       46.6       51.0       27.0       112.3%  | ·                                 |         |          |         |         |         |         |         |              |          |              |
| Anne Arundel County (7)       297.0       317.1       334.7       357.1       379.6       401.5       423.3       126.3       42.5%       n/a         Carroll County (7)       68.3       76.3       84.3       86.8       88.3       89.3       90.3       22.0       32.2%       n/a         Moward County (7)       160.0       180.0       200.0       215.0       230.0       245.0       260.0       100.0       62.5%       n/a         Modeled Region -       525.3       573.4       619.0       658.9       697.9       735.8       773.6       248.3       47.3%       n/a         King George County (6)       9.2       11.3       13.3       15.2       17.1       22.8       28.5       19.3       209.0%       n/a         Spotsylvania County (6)       2.5       2.8.9       34.8       39.7       44.7       49.4       54.1       28.6       112.2%       n/a         Modeled Portion Only       24.0       27.2       32.8       37.4       42.1       46.6       51.0       27.0       112.3%       n/a         King George County (6)       2.5       6.5.1       80.4       91.8       103.2       118.0       132.9       10.3       209.  | Stafford County (6)               | 30.5    | 38.3     | 46.1    | 52.7    | 59.2    | 66.3    | 73.4    | 42.9         | 140.9%   | 3.1%         |
| Carroll County (7)       68.3       76.3       84.3       86.8       88.3       89.3       90.3       22.0       32.2%       n/a         Howard County (7)       160.0       180.0       200.0       215.0       230.0       245.0       260.0       100.0       62.5%       n/a         Modeled Region -       525.3       573.4       619.0       658.9       697.9       735.8       773.6       248.3       47.3%       n/a         King George County (6)       9.2       11.3       13.3       15.2       17.1       22.8       28.5       19.3       209.0%       n/a         Modeled Portion Only       24.0       27.2       32.8       37.4       42.1       46.6       51.0       27.0       112.3%       n/a         Modeled Portion Only       24.0       27.2       32.8       37.4       42.1       46.6       51.0       27.0       112.3%       n/a         Modeled Region -       52.2       65.1       80.4       91.8       103.2       118.0       132.9       n/a         Fredericksburg Area Jurisdictions       17.2       19.7       22.3       249       29.2       32.4       145.7       15.6       118.0       12.9       14.8   | Outer Suburbs                     | 401.9   | 506.9    | 595.8   | 660.9   | 721.9   | 779.7   | 834.3   | 432.4        | 107.6%   | 31.1%        |
| Howard County (7)       160.0       180.0       200.0       215.0       230.0       245.0       260.0       100.0       62.5%       n/a         Modeled Region -<br>Baltimore Area Jurisdictions       525.3       573.4       619.0       658.9       697.9       735.8       773.6       248.3       47.3%       n/a         King George County (6)       9.2       11.3       13.3       15.2       17.1       22.8       28.5       19.3       209.0%       n/a         Modeled Portion Only       24.0       27.2       32.8       37.4       42.1       46.6       51.0       27.0       112.3%       n/a         Modeled Portion Only       24.0       27.2       32.8       37.4       42.1       46.6       51.0       27.0       112.3%       n/a         Modeled Region -<br>Fredericksburg Area Jurisdictions       52.2       65.1       80.4       91.8       103.2       118.0       132.9       109.3       209.1%       n/a         St. Mary's County (5)       49.6       55.8       61.9       63.5       65.1       66.2       67.2       17.6       35.5%       n/a         Jefferson County       17.2       19.7       22.3       24.9       29.2       32.2   | Anne Arundel County (7)           | 297.0   | 317.1    | 334.7   | 357.1   | 379.6   | 401.5   | 423.3   | 126.3        | 42.5%    | n/a          |
| Howard County (7)       160.0       180.0       200.0       215.0       230.0       245.0       260.0       100.0       62.5%       n/a         Modeled Region -<br>Baltimore Area Jurisdictions       525.3       573.4       619.0       658.9       697.9       735.8       773.6       248.3       47.3%       n/a         King George County (6)       9.2       11.3       13.3       15.2       17.1       22.8       28.5       19.3       209.0%       n/a         Modeled Portion Only       24.0       27.2       32.8       37.4       42.1       46.6       51.0       27.0       112.3%       n/a         Modeled Portion Only       24.0       27.2       32.8       37.4       42.1       46.6       51.0       27.0       112.3%       n/a         Modeled Region -<br>Fredericksburg Area Jurisdictions       52.2       65.1       80.4       91.8       103.2       118.0       132.9       109.3       209.1%       n/a         St. Mary's County (5)       49.6       55.8       61.9       63.5       65.1       66.2       67.2       17.6       35.5%       n/a         Jefferson County       17.2       19.7       22.3       24.9       29.2       32.2   | Carroll County (7)                | 68.3    | 76.3     | 84.3    | 86.8    | 88.3    | 89.3    | 90.3    | 22.0         | 32.2%    | n/a          |
| Baltimore Area Jurisdictions         King George County (6)       9.2       11.3       13.3       15.2       17.1       22.8       28.5       19.3       209.0%       n/a         Spotsylvania County (6)       25.5       28.9       34.8       39.7       44.7       49.4       54.1       28.6       112.2%       n/a         Modeled Portion Only       24.0       27.2       32.8       37.4       42.1       46.6       51.0       27.0       112.3%       n/a         Fredericksburg City (6)       19.0       26.6       34.3       39.2       44.0       48.7       53.4       34.4       181.1%       n/a         Modeled Region -       52.2       65.1       80.4       91.8       103.2       118.0       132.9       109.3       209.1%       n/a         St. Mary's County (5)       49.6       55.8       61.9       63.5       65.1       66.2       67.2       17.6       35.5%       n/a         Fredericksburg County (5)       49.6       55.8       61.9       63.5       65.1       66.2       67.2       17.6       35.5%       n/a         Glarke County       17.2       19.7       22.3       24.9       29.2       35.2 <td>•</td> <td></td> <td></td> <td>200.0</td> <td>215.0</td> <td></td> <td></td> <td></td> <td>100.0</td> <td></td> <td>n/a</td>  | •                                 |         |          | 200.0   | 215.0   |         |         |         | 100.0        |          | n/a          |
| Baltimore Area Jurisdictions         King George County (6)       9.2       11.3       13.3       15.2       17.1       22.8       28.5       19.3       209.0%       n/a         Spotsylvania County (6)       25.5       28.9       34.8       39.7       44.7       49.4       54.1       28.6       112.2%       n/a         Modeled Portion Only       24.0       27.2       32.8       37.4       42.1       46.6       51.0       27.0       112.3%       n/a         Fredericksburg City (6)       19.0       26.6       34.3       39.2       44.0       48.7       53.4       34.4       181.1%       n/a         Modeled Region -       52.2       65.1       80.4       91.8       103.2       118.0       132.9       109.3       209.1%       n/a         St. Mary's County (5)       49.6       55.8       61.9       63.5       65.1       66.2       67.2       17.6       35.5%       n/a         Fredericksburg County (5)       49.6       55.8       61.9       63.5       65.1       66.2       67.2       17.6       35.5%       n/a         Glarke County       17.2       19.7       22.3       24.9       29.2       35.2 <td>Modeled Region -</td> <td>525.3</td> <td>573.4</td> <td>619.0</td> <td>658.9</td> <td>697.9</td> <td>735.8</td> <td>773.6</td> <td>248.3</td> <td>47.3%</td> <td>n/a</td>   | Modeled Region -                  | 525.3   | 573.4    | 619.0   | 658.9   | 697.9   | 735.8   | 773.6   | 248.3        | 47.3%    | n/a          |
| Spotsylvania County (6)       25.5       28.9       34.8       39.7       44.7       49.4       54.1       28.6       112.2%       n/a         Modeled Portion Only       24.0       27.2       32.8       37.4       42.1       46.6       51.0       27.0       112.3%       n/a         Fredericksburg City (6)       19.0       26.6       34.3       39.2       44.0       48.7       53.4       34.4       181.1%       n/a         Modeled Region -<br>Fredericksburg Area Jurisdictions       52.2       65.1       80.4       91.8       103.2       118.0       132.9       109.3       209.1%       n/a         St. Mary's County (5)       49.6       55.8       61.9       63.5       65.1       66.2       67.2       17.6       35.5%       n/a         Fauquier County       17.2       19.7       22.3       24.9       29.2       32.2       35.4       18.2       105.5%       n/a         Jefferson County       17.2       19.7       22.3       24.9       29.2       32.2       35.4       18.2       105.5%       n/a         Modeled Region -<br>Other Jurisdictions       84.0       95.0       106.1       112.6       120.8       127.0       133.4 <td>0</td> <td>52515</td> <td>575.7</td> <td>01710</td> <td>0.000</td> <td>0,7,0</td> <td>/ 5510</td> <td>// 510</td> <td>270.5</td> <td>17.570</td> <td></td>  | 0                                 | 52515   | 575.7    | 01710   | 0.000   | 0,7,0   | / 5510  | // 510  | 270.5        | 17.570   |              |
| Spotsylvania County (6)       25.5       28.9       34.8       39.7       44.7       49.4       54.1       28.6       112.2%       n/a         Modeled Portion Only       24.0       27.2       32.8       37.4       42.1       46.6       51.0       27.0       112.3%       n/a         Fredericksburg City (6)       19.0       26.6       34.3       39.2       44.0       48.7       53.4       34.4       181.1%       n/a         Modeled Region -<br>Fredericksburg Area Jurisdictions       52.2       65.1       80.4       91.8       103.2       118.0       132.9       109.3       209.1%       n/a         St. Mary's County (5)       49.6       55.8       61.9       63.5       65.1       66.2       67.2       17.6       35.5%       n/a         Fauquier County       17.2       19.7       22.3       24.9       29.2       32.2       35.4       18.2       105.5%       n/a         Jefferson County       17.2       19.7       22.3       24.9       29.2       32.2       35.4       18.2       105.5%       n/a         Modeled Region -<br>Other Jurisdictions       84.0       95.0       106.1       112.6       120.8       127.0       133.4 <td>King George County (6)</td> <td>92</td> <td>113</td> <td>133</td> <td>15.2</td> <td>171</td> <td>22.8</td> <td>28 5</td> <td>19.3</td> <td>209.0%</td> <td>n/a</td>   | King George County (6)            | 92      | 113      | 133     | 15.2    | 171     | 22.8    | 28 5    | 19.3         | 209.0%   | n/a          |
| Modeled Portion Only       24.0       27.2       32.8       37.4       42.1       46.6       51.0       27.0       112.3%       n/a         Fredericksburg City (6)       19.0       26.6       34.3       39.2       44.0       48.7       53.4       34.4       181.1%       n/a         Modeled Region -<br>Fredericksburg Area Jurisdictions       52.2       65.1       80.4       91.8       103.2       118.0       132.9       109.3       209.1%       n/a         St. Mary's County (5)       49.6       55.8       61.9       63.5       65.1       66.2       67.2       17.6       35.5%       n/a         Clarke County       4.4       4.7       5.1       5.4       5.7       6.0       6.4       2.0       45.0%       n/a         Fauquier County       17.2       19.7       22.3       24.9       29.2       32.2       35.4       18.2       105.5%       n/a         Jefferson County       12.8       14.8       16.8       18.8       20.8       22.6       24.5       11.7       91.7%       n/a         Modeled Region -<br>Other Jurisdictions       84.0       95.0       106.1       112.6       120.8       127.0       133.4       49.5  | • • •                             |         |          |         |         |         |         |         |              |          |              |
| Fredericksburg City (6)       19.0       26.6       34.3       39.2       44.0       48.7       53.4       34.4       181.1%       n/a         Modeled Region -<br>Fredericksburg Area Jurisdictions       52.2       65.1       80.4       91.8       103.2       118.0       132.9       109.3       209.1%       n/a         St. Mary's County (5)       49.6       55.8       61.9       63.5       65.1       66.2       67.2       17.6       35.5%       n/a         Clarke County       4.4       4.7       5.1       5.4       5.7       6.0       6.4       2.0       45.0%       n/a         Fauquier County       17.2       19.7       22.3       24.9       29.2       32.2       35.4       18.2       105.5%       n/a         Jefferson County       12.8       14.8       16.8       18.8       20.8       22.6       24.5       11.7       91.7%       n/a         Modeled Region -<br>Other Jurisdictions       84.0       95.0       106.1       112.6       120.8       127.0       133.4       49.5       58.9%       n/a         Northern Virginia       1,128.0       1,238.9       1,415.7       1,550.0       1,676.9       1,789.5       1,890.3 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>   |                                   |         |          |         |         |         |         |         |              |          |              |
| Modeled Region -<br>Fredericksburg Area Jurisdictions       52.2       65.1       80.4       91.8       103.2       118.0       132.9       109.3       209.1%       n/a         St. Mary's County (5)       49.6       55.8       61.9       63.5       65.1       66.2       67.2       17.6       35.5%       n/a         Clarke County       4.4       4.7       5.1       5.4       5.7       6.0       6.4       2.0       45.0%       n/a         Fauquier County       17.2       19.7       22.3       24.9       29.2       32.2       35.4       18.2       105.5%       n/a         Jefferson County       12.8       14.8       16.8       18.8       20.8       22.6       24.5       11.7       91.7%       n/a         Modeled Region -<br>Other Jurisdictions       84.0       95.0       106.1       112.6       120.8       127.0       133.4       49.5       58.9%       n/a         Northern Virginia       1,128.0       1,238.9       1,415.7       1,550.0       1,676.9       1,789.5       1,890.3       762.3       67.6%       54.8%         Suburban Maryland       973.6       1,066.8       1,173.2       1,253.9       1,335.5       1,412.5       1,486.  | 2                                 |         |          |         |         |         |         |         |              |          |              |
| Fredericksburg Area Jurisdictions         St. Mary's County (5)       49.6       55.8       61.9       63.5       65.1       66.2       67.2       17.6       35.5%       n/a         Clarke County       4.4       4.7       5.1       5.4       5.7       6.0       6.4       2.0       45.0%       n/a         Fauquier County       17.2       19.7       22.3       24.9       29.2       32.2       35.4       18.2       105.5%       n/a         Jefferson County       17.2       19.7       22.3       24.9       29.2       32.2       35.4       18.2       105.5%       n/a         Jefferson County       12.8       14.8       16.8       18.8       20.8       22.6       24.5       11.7       91.7%       n/a         Modeled Region -<br>Other Jurisdictions       84.0       95.0       106.1       112.6       120.8       127.0       133.4       49.5       58.9%       n/a         Northern Virginia       1,128.0       1,238.9       1,415.7       1,550.0       1,676.9       1,789.5       1,890.3       762.3       67.6%       54.8%         Suburban Maryland       973.6       1,066.8  | Treachensburg eng (0)             | 19.0    | 20.0     | 51.5    | 57.2    | 11.0    | 10.7    | 55.7    | 5117         | 10111/0  |              |
| St. Mary's County (5)       49.6       55.8       61.9       63.5       65.1       66.2       67.2       17.6       35.5%       n/a         Clarke County       4.4       4.7       5.1       5.4       5.7       6.0       6.4       2.0       45.0%       n/a         Fauquier County       17.2       19.7       22.3       24.9       29.2       32.2       35.4       18.2       105.5%       n/a         Jefferson County       12.8       14.8       16.8       18.8       20.8       22.6       24.5       11.7       91.7%       n/a         Modeled Region -<br>Other Jurisdictions       84.0       95.0       106.1       112.6       120.8       127.0       133.4       49.5       58.9%       n/a         Northern Virginia       1,128.0       1,238.9       1,415.7       1,550.0       1,676.9       1,789.5       1,890.3       762.3       67.6%       54.8%         Suburban Maryland       973.6       1,066.8       1,173.2       1,253.9       1,335.5       1,412.5       1,486.6       513.1       52.7%       36.9%         MSA REGIONAL TOTAL       2,845.2       3,050.4       3,372.3       3,619.9       3,841.8       4,045.9       4,236.0   | Modeled Region -                  | 52.2    | 65.1     | 80.4    | 91.8    | 103.2   | 118.0   | 132.9   | 109.3        | 209.1%   | n/a          |
| Clarke County       4.4       4.7       5.1       5.4       5.7       6.0       6.4       2.0       45.0%       n/a         Fauquier County       17.2       19.7       22.3       24.9       29.2       32.2       35.4       18.2       105.5%       n/a         Jefferson County       12.8       14.8       16.8       18.8       20.8       22.6       24.5       11.7       91.7%       n/a         Modeled Region -<br>Other Jurisdictions       84.0       95.0       106.1       112.6       120.8       127.0       133.4       49.5       58.9%       n/a         Northern Virginia       1,128.0       1,238.9       1,415.7       1,550.0       1,676.9       1,789.5       1,890.3       762.3       67.6%       54.8%         Suburban Maryland       973.6       1,066.8       1,173.2       1,253.9       1,335.5       1,412.5       1,486.6       513.1       52.7%       36.9%         MSA REGIONAL TOTAL       2,845.2       3,050.4       3,372.3       3,619.9       3,841.8       4,045.9       4,236.0       1,390.9       48.9%       100.0%  | Fredericksburg Area Jurisdictions |         |          |         |         |         |         |         |              |          |              |
| Clarke County       4.4       4.7       5.1       5.4       5.7       6.0       6.4       2.0       45.0%       n/a         Fauquier County       17.2       19.7       22.3       24.9       29.2       32.2       35.4       18.2       105.5%       n/a         Jefferson County       12.8       14.8       16.8       18.8       20.8       22.6       24.5       11.7       91.7%       n/a         Modeled Region -<br>Other Jurisdictions       84.0       95.0       106.1       112.6       120.8       127.0       133.4       49.5       58.9%       n/a         Northern Virginia       1,128.0       1,238.9       1,415.7       1,550.0       1,676.9       1,789.5       1,890.3       762.3       67.6%       54.8%         Suburban Maryland       973.6       1,066.8       1,173.2       1,253.9       1,335.5       1,412.5       1,486.6       513.1       52.7%       36.9%         MSA REGIONAL TOTAL       2,845.2       3,050.4       3,372.3       3,619.9       3,841.8       4,045.9       4,236.0       1,390.9       48.9%       100.0%  | St. Mary's County (5)             | 49.6    | 55.8     | 61.9    | 63.5    | 65.1    | 66.2    | 67.2    | 17.6         | 35.5%    | n/a          |
| Fauquier County<br>Jefferson County       17.2<br>12.8       19.7<br>14.8       22.3<br>16.8       24.9<br>18.8       29.2<br>20.8       32.2<br>22.6       35.4<br>24.5       18.2<br>11.7       105.5%<br>91.7%       n/a<br>n/a         Modeled Region -<br>Other Jurisdictions       84.0       95.0       106.1       112.6       120.8       127.0       133.4       49.5       58.9%       n/a         Northern Virginia       1,128.0       1,238.9       1,415.7       1,550.0       1,676.9       1,789.5       1,890.3       762.3       67.6%       54.8%         Suburban Maryland       973.6       1,066.8       1,173.2       1,253.9       1,335.5       1,412.5       1,486.6       513.1       52.7%       36.9%         MSA REGIONAL TOTAL       2,845.2       3,050.4       3,372.3       3,619.9       3,841.8       4,045.9       4,236.0       1,390.9       48.9%       100.0%   |                                   |         |          |         |         |         |         |         |              |          |              |
| Jefferson County       12.8       14.8       16.8       18.8       20.8       22.6       24.5       11.7       91.7%       n/a         Modeled Region -<br>Other Jurisdictions       84.0       95.0       106.1       112.6       120.8       127.0       133.4       49.5       58.9%       n/a         Northern Virginia       1,128.0       1,238.9       1,415.7       1,550.0       1,676.9       1,789.5       1,890.3       762.3       67.6%       54.8%         Suburban Maryland       973.6       1,066.8       1,173.2       1,253.9       1,335.5       1,412.5       1,486.6       513.1       52.7%       36.9%         MSA REGIONAL TOTAL       2,845.2       3,050.4       3,372.3       3,619.9       3,841.8       4,045.9       4,236.0       1,390.9       48.9%       100.0%   |                                   |         |          |         |         |         |         |         |              |          |              |
| Other Jurisdictions         Northern Virginia       1,128.0       1,238.9       1,415.7       1,550.0       1,676.9       1,789.5       1,890.3       762.3       67.6%       54.8%         Suburban Maryland       973.6       1,066.8       1,173.2       1,253.9       1,335.5       1,412.5       1,486.6       513.1       52.7%       36.9%         MSA REGIONAL TOTAL       2,845.2       3,050.4       3,372.3       3,619.9       3,841.8       4,045.9       4,236.0       1,390.9       48.9%       100.0%   | 1 1                               |         |          |         |         |         |         |         |              |          |              |
| Suburban Maryland       973.6       1,066.8       1,173.2       1,253.9       1,335.5       1,412.5       1,486.6       513.1       52.7%       36.9%         MSA REGIONAL TOTAL       2,845.2       3,050.4       3,372.3       3,619.9       3,841.8       4,045.9       4,236.0       1,390.9       48.9%       100.0%   | 0                                 | 84.0    | 95.0     | 106.1   | 112.6   | 120.8   | 127.0   | 133.4   | 49.5         | 58.9%    | n/a          |
| MSA REGIONAL TOTAL 2,845.2 3,050.4 3,372.3 3,619.9 3,841.8 4,045.9 4,236.0 1,390.9 48.9% 100.0%   | Northern Virginia                 | 1,128.0 | 1,238.9  | 1,415.7 | 1,550.0 | 1,676.9 | 1,789.5 | 1,890.3 | 762.3        | 67.6%    | 54.8%        |
|   | Suburban Maryland                 | 973.6   | 1,066.8  | 1,173.2 | 1,253.9 | 1,335.5 | 1,412.5 | 1,486.6 | 513.1        | 52.7%    | 36.9%        |
| TPB Model Region Total         3,506.7         3,783.9         4,177.8         4,483.2         4,763.7         5,026.7         5,275.9         1,769.2         50.5%         100.0%   | MSA REGIONAL TOTAL                | 2,845.2 | 3,050.4  | 3,372.3 | 3,619.9 | 3,841.8 | 4,045.9 | 4,236.0 | 1,390.9      | 48.9%    | 100.0%       |
|   | <b>TPB Model Region Total</b>     | 3,506.7 | 3,783.9  | 4,177.8 | 4,483.2 | 4,763.7 | 5,026.7 | 5,275.9 | 1,769.2      | 50.5%    | 100.0%       |

Forecasts for years 2000 to 2030 include all of Takoma Park
 Included in Montgomery County total.
 Forecasts for all years include Fairfax County Government employees working at the Fairfax County Public Safety Center.
 Forecasts for all years do not include Fairfax County Government employees (+/- 2,000 jobs) working at the Fairfax County Public Safety Center
 Fore Council for Southern Maryland develops ten-year incremental population, housing unit and employment forecasts

(6) Source: Fredericksburg Area Metropolitan Planning Organization (FAMPO), CLRP 2030 Projections, March 2003, adjusted to common employment definition.

(7) Source: Baltimore Metropolitan Council, Round 6-B.

### **Summary of Intermediate Population Forecasts Round 7.0a Cooperative Forecasts** (Thousands)

**DRAFT Planning Directors Technical** Advisory Committee - April 21, 2006

|   |                | (              | ousunusj       |                |                |                | Г              | 2000 to 2030 |                | Regional   |
|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------|----------------|------------|
| JURISDICTION  | 2000           | 2005           | 2010           | 2015           | 2020           | 2025           | 2030           |              | % Change       | Share      |
| District of Columbia                                  | 572.1          | 577.5          | 608.7          | 641.9          | 673.0          | 712.0          | 733.8          | 161.8        | 28.3%          | 7.9%       |
| Arlington County                                      | 190.3          | 198.3          | 212.2          | 223.3          | 233.1          | 241.6          | 249.6          | 59.3         | 31.1%          | 2.9%       |
| City of Alexandria                                    | 128.3          | 135.9          | 143.9          | 149.4          | 153.2          | 159.5          | 169.4          | 41.1         | 32.0%          | 2.0%       |
| Central Jurisdictions                                 | 890.7          | 911.6          | 964.8          | 1,014.6        | 1,059.2        | 1,113.1        | 1,152.8        | 262.1        | 29.4%          | 12.7%      |
| Montgomery County (1)                                 | 873.3          | 942.0          | 1,000.0        | 1,040.0        | 1,077.1        | 1,115.3        | 1,155.8        | 282.5        | 32.3%          | 13.7%      |
| Rockville (2)   | 47.4           | 59.9           | 65.3           | 68.3           | 68.8           | 69.0           | 69.5           | 22.1         | 46.7%          | 1.1%       |
| Prince George's County                                | 808.1          | 852.9          | 872.6          | 893.3          | 914.9          | 949.7          | 993.1          | 185.1        | 22.9%          | 9.0%       |
| Fairfax County (3)                                    | 969.0          | 1,040.9        | 1,132.5        | 1,211.5        | 1,276.0        | 1,303.7        | 1,330.9        | 361.9        | 37.4%          | 17.6%      |
| City of Fairfax (4)                                   | 21.4           | 22.1           | 23.5           | 25.0           | 25.6           | 25.7           | 26.5           | 5.1          | 23.9%          | 0.2%       |
| City of Falls Church                                  | 10.4           | 10.6           | 12.3           | 13.9           | 14.7           | 14.9           | 15.4           | 5.0          | 48.5%          | 0.2%       |
| Inner Suburbs   | 2,682.1        | 2,868.5        | 3,040.9        | 3,183.7        | 3,308.3        | 3,409.3        | 3,521.8        | 839.7        | 31.3%          | 40.8%      |
| Loudoun County  | 169.6          | 247.3          | 318.1          | 379.6          | 422.9          | 454.9          | 480.6          | 311.0        | 183.4%         | 15.1%      |
| Prince William County                                 | 281.3          | 352.1          | 416.8          | 463.4          | 489.9          | 524.9          | 556.3          | 275.0        | 97.8%          | 13.4%      |
| City of Manassas                                      | 35.1           | 37.6           | 38.6           | 40.3           | 40.8           | 41.2           | 41.9           | 6.7          | 19.2%          | 0.3%       |
| City of Manassas Park                                 | 10.3           | 12.9           | 15.0           | 15.8           | 16.5           | 16.7           | 16.8           | 6.5          | 63.3%          | 0.3%       |
| Calvert County (5)                                    | 74.6           | 82.8           | 91.0           | 93.5           | 96.0           | 98.3           | 101.4          | 26.8         | 36.0%          | 1.3%       |
| Charles County (5)                                    | 120.5          | 138.0          | 147.4          | 162.3          | 177.2          | 193.1          | 204.2          | 83.7         | 69.4%          | 4.1%       |
| Frederick County                                      | 195.3          | 220.9          | 243.2          | 265.6          | 287.9          | 310.4          | 339.7          | 144.4        | 74.0%          | 7.0%       |
| Stafford County (6)                                   | 92.4           | 107.1          | 121.7          | 136.4          | 151.0          | 174.5          | 195.8          | 103.4        | 111.8%         | 5.0%       |
| Outer Suburbs   | 979.2          | 1,198.6        | 1,391.9        | 1,556.8        | 1,682.2        | 1,814.0        | 1,936.7        | 957.5        | 97.8%          | 46.5%      |
| Anna Annadal Canata (7)                               | 489.7          | 5116           | 576 9          | 540 1          | 551.0          | 562.1          | 567.6          | 77.0         | 15.9%          |            |
| Anne Arundel County (7)                               |                | 511.6          | 526.8          | 540.1          | 551.0          |                | 567.6          | 77.9         |                | n/a        |
| Carroll County (7)<br>Howard County (7)               | 150.9<br>250.8 | 169.5<br>273.5 | 179.7<br>294.2 | 187.0<br>308.9 | 191.9<br>319.3 | 194.1<br>320.3 | 193.2<br>321.1 | 42.3<br>70.3 | 28.0%<br>28.0% | n/a<br>n/a |
| Howara County (7)                                     | 250.8          | 275.5          | 294.2          | 508.9          | 519.5          | 520.5          | 521.1          | /0.5         | 20.070         | n/u        |
| Modeled Region -                                      | 891.4          | 954.6          | 1,000.7        | 1,036.0        | 1,062.2        | 1,076.5        | 1,081.9        | 190.5        | 21.4%          | n/a        |
| <b>Baltimore Area Jurisdictions</b>                   |                |                |                |                |                |                |                |              |                |            |
| King George County (6)                                | 16.8           | 19.6           | 22.3           | 24.1           | 25.9           | 27.7           | 29.5           | 12.7         | 75.8%          | n/a        |
| Spotsylvania County (6)                               | 90.4           | 107.7          | 124.9          | 139.0          | 153.0          | 167.2          | 181.4          | 91.0         | 100.7%         | n/a        |
| Modeled Portion Only                                  | 71.6           | 85.2           | 98.9           | 110.0          | 121.1          | 132.3          | 143.5          | 72.0         | 100.5%         | n/a        |
| Fredericksburg City (6)                               | 19.3           | 21.5           | 23.6           | 25.4           | 27.1           | 28.4           | 29.8           | 10.5         | 54.5%          | n/a        |
| Modeled Region -<br>Fredericksburg Area Jurisdictions | 107.7          | 126.2          | 144.8          | 159.4          | 174.0          | 188.5          | 202.9          | 95.2         | 88.4%          | n/a        |
| -<br>St. Mamila County (5)                            | 96.2           | 025            | 100.0          | 107.0          | 1140           | 101.0          | 127.6          | 41.4         | 10 00/         | /          |
| St. Mary's County (5)                                 | 86.2           | 93.5           | 100.8          | 107.8          | 114.8          | 121.2          |                | 41.4         | 48.0%          | n/a        |
| Clarke County   | 12.7           | 14.1           | 15.4           | 16.2           | 16.9           | 17.9           | 18.8           | 6.2          | 48.6%          | n/a        |
| Fauquier County                                       | 56.1           | 64.7           | 74.5           | 85.8           | 98.8           | 113.9          | 131.2          | 75.1         | 133.7%         | n/a        |
| Jefferson County                                      | 42.2           | 46.8           | 51.4           | 57.1           | 62.7           | 69.6           | 76.4           | 34.2         | 81.1%          | n/a        |
| Modeled Region -<br>Other Jurisdictions               | 197.2          | 219.1          | 242.1          | 266.8          | 293.2          | 322.5          | 354.0          | 156.8        | 79.5%          | n/a        |
| Northern Virginia                                     | 1,908.1        | 2,164.7        | 2,434.7        | 2,658.5        | 2,823.8        | 2,957.7        | 3,083.2        | 1175.1       | 61.6%          | 57.1%      |
| Suburban Maryland                                     | 2,071.8        | 2,236.5        | 2,354.2        | 2,454.7        | 2,553.1        | 2,666.8        | 2,794.3        | 722.5        | 34.9%          | 35.1%      |
| MSA REGIONAL TOTAL                                    | 4,551.9        | 4,978.7        | 5,397.6        | 5,755.1        | 6,049.8        | 6,336.4        | 6,611.3        | 2,059.3      | 45.2%          | 100.0%     |
| <b>TPB Model Region Total</b>                         | 5,748.2        | 6,278.6        | 6,785.2        | 7,217.3        | 7,579.3        | 7,923.9        | 8,250.1        | 2,501.9      | 43.5%          | 100.0%     |

(1) Forecasts for years 2000 to 2030 include all of Takoma Park.
 (2) Included in Montgomery County total.
 (3) Forecasts for all years include Fairfax County group quarters population at the Fairfax County Public Safety Center
 (4) Forecasts for all years do not include Fairfax County group quarters population (+/- 1,000 people) at the Fairfax County Public Safety Center and Fairfax County household population (+/-1,300 people) in TAZ 1609.

(5)Tri-County Council for Southern Maryland develops ten-year incremental population, housing unit and employment forecas for Calvert County, Charles County and St. Mary's County.
 (6) Source: Fredericksburg Area Metropolitan Planning Organization (FAMPO), CLRP 2030 Projections, March 2003. The estimates for 2010, 2020 and 2030 are control totals provided by the Virginia Employment Commission (VEC) and should only be used for transportation planning purposes. Incremental five-year estimates (2005, 201

(7) Source: Baltimore Metropolitan Council, Round 6-B.

### **Summary of Intermediate Household Forecasts Round 7.0a Cooperative Forecasts** (Thousands)

**DRAFT Planning Directors Technical** Advisory Committee - April 21, 2006

|   |         | (1 nous      |               |         |         |         | ]       | 2000 to  | 2020            | Regional |
|---|---------|--------------|---------------|---------|---------|---------|---------|----------|-----------------|----------|
| JURISDICTION                            | 2000    | 2005         | 2010          | 2015    | 2020    | 2025    | 2030    | Number 9 |                 | Share    |
| JURISDICTION                            | 2000    | 2003         | 2010          | 2015    | 2020    | 2023    | 2030    | Number   | 76 Change       | Share    |
| District of Columbia                    | 248.3   | 252.0        | 265.3         | 280.7   | 293.3   | 308.9   | 318.7   | 70.4     | 28.3%           | 8.6%     |
| Arlington County                        | 86.9    | 92.1         | 205.5<br>99.6 | 105.9   | 111.5   | 116.0   | 119.9   | 33.0     | 28.376<br>37.9% | 4.0%     |
| City of Alexandria                      | 61.9    | 66.3         | 71.0          | 74.6    | 76.7    | 80.5    | 86.5    | 24.6     | 39.7%           | 3.0%     |
| City of Alexandria                      | 01.9    | 00.5         | /1.0          | /4.0    | /0./    | 80.5    | 80.5    | 24.0     | 39.770          | 5.0 /6   |
| Central Jurisdictions                   | 397.1   | 410.5        | 435.8         | 461.2   | 481.4   | 505.4   | 525.0   | 127.9    | 32.2%           | 15.6%    |
| Montgomery County (1)                   | 324.6   | 347.0        | 370.0         | 390.0   | 407.9   | 424.8   | 441.3   | 116.7    | 36.0%           | 14.2%    |
| Rockville (2)                           | 17.2    | 22.6         | 25.1          | 26.1    | 26.3    | 26.5    | 26.7    | 9.5      | 55.3%           | 1.2%     |
| Prince George's County                  | 288.6   | 308.5        | 321.8         | 334.6   | 346.9   | 360.8   | 378.1   | 89.5     | 31.0%           | 10.9%    |
| Fairfax County                          | 350.5   | 377.6        | 411.5         | 442.7   | 462.6   | 472.6   | 482.4   | 131.9    | 37.6%           | 16.0%    |
| City of Fairfax (3)                     | 8.2     | 8.5          | 9.0           | 9.6     | 9.9     | 10.1    | 10.5    | 2.3      | 28.7%           | 0.3%     |
| City of Falls Church                    | 4.5     | 4.6          | 5.5           | 6.5     | 6.9     | 7.0     | 7.3     | 2.8      | 63.3%           | 0.3%     |
|   |         |              |               |         |         |         |         |          |                 |          |
| Inner Suburbs                           | 976.3   | 1,046.2      | 1,117.8       | 1,183.5 | 1,234.1 | 1,275.3 | 1,319.7 | 343.4    | 35.2%           | 41.8%    |
| Loudoun County                          | 59.9    | 87.5         | 112.7         | 134.4   | 149.7   | 161.0   | 170.1   | 110.2    | 184.1%          | 13.4%    |
| Prince William County                   | 94.6    | 117.9        | 140.9         | 158.5   | 169.4   | 181.2   | 193.1   | 98.5     | 104.2%          | 12.0%    |
| City of Manassas                        | 11.8    | 12.8         | 13.4          | 13.7    | 13.9    | 14.1    | 14.4    | 2.6      | 22.4%           | 0.3%     |
| City of Manassas Park                   | 3.3     | 4.2          | 5.0           | 5.3     | 5.4     | 5.4     | 5.4     | 2.1      | 17.8%           | 0.3%     |
| Calvert County (4)                      | 25.4    | 28.3         | 31.0          | 32.7    | 34.3    | 35.1    | 36.2    | 10.8     | 42.3%           | 1.3%     |
| Charles County (4)                      | 41.7    | 48.2         | 52.2          | 57.9    | 63.7    | 72.3    | 76.9    | 35.2     | 84.5%           | 4.3%     |
| Frederick County                        | 70.1    | 79.5         | 87.7          | 95.9    | 104.1   | 112.5   | 123.1   | 53.1     | 75.7%           | 6.5%     |
| Stafford County (5)                     | 30.2    | 36.3         | 40.9          | 46.4    | 51.9    | 59.8    | 68.4    | 38.2     | 126.6%          | 4.6%     |
| Outer Suburbs                           | 336.9   | 414.7        | 483.9         | 544.8   | 592.4   | 641.4   | 687.6   | 350.8    | 104.1%          | 42.7%    |
|   |         |              |               |         |         |         |         |          |                 |          |
| Anne Arundel County (6)                 | 178.7   | 190.6        | 201.1         | 210.5   | 218.4   | 224.8   | 228.1   | 49.4     | 27.7%           | n/a      |
| Carroll County (6)                      | 52.5    | 59.5         | 63.6          | 66.9    | 69.5    | 71.3    | 71.8    | 19.3     | 36.8%           | n/a      |
| Howard County (6)                       | 91.0    | 100.0        | 108.7         | 117.5   | 124.7   | 127.1   | 127.6   | 36.7     | 40.3%           | n/a      |
| Modeled Region -                        | 322.1   | 350.1        | 373.4         | 394.9   | 412.6   | 423.2   | 427.5   | 105.4    | 32.7%           | n/a      |
| Baltimore Area Jurisdictions            | 522.1   | 55011        | 57511         | 57 117  | /12.0   | 12512   | 12/13   | 10517    | 52.770          |          |
|   |         |              |               |         |         |         |         |          |                 |          |
| King George County (5)                  | 6.1     | 7.2          | 8.3           | 9.1     | 9.9     | 10.6    | 11.4    | 5.4      | 87.9%           | n/a      |
| Spotsylvania County (5)                 | 31.3    | 37.7         | 44.4          | 50.0    | 55.6    | 61.3    | 67.0    | 35.7     | 113.9%          | n/a      |
| Modeled Portion Only                    | 24.8    | 29.8         | 35.1          | 39.5    | 44.0    | 48.5    | 53.0    | 28.2     | 113.9%          | n/a      |
| Fredericksburg City (5)                 | 8.1     | 9.2          | 10.4          | 11.4    | 12.4    | 13.1    | 13.9    | 5.8      | 72.1%           | n/a      |
|   |         |              |               |         |         |         |         |          |                 |          |
| Modeled Region -                        | 39.0    | 46.3         | 53.9          | 60.0    | 66.3    | 72.2    | 78.4    | 39.4     | 101.2%          | n/a      |
| Fredericksburg Area Jurisdictions       |         |              |               |         |         |         |         |          |                 |          |
| St. Mary's County (4)                   | 30.6    | 33.5         | 36.4          | 39.5    | 42.6    | 45.5    | 48.4    | 17.8     | 58.0%           | n/a      |
| Clarke County                           | 4.9     | 5.5          | 6.1           | 6.5     | 6.9     | 7.3     | 7.8     | 2.8      | 57.2%           | n/a      |
| Fauquier County                         | 20.2    | 23.3         | 26.9          | 31.0    | 35.7    | 41.2    | 47.5    | 27.3     | 135.1%          | n/a      |
| Jefferson County                        | 16.2    | 18.3         | 20.4          | 23.2    | 26.0    | 29.5    | 33.1    | 16.9     | 104.6%          | n/a      |
|   |         |              |               |         |         |         |         |          |                 |          |
| Modeled Region -<br>Other Jurisdictions | 72.0    | <b>80.</b> 7 | 89.9          | 100.2   | 111.2   | 123.5   | 136.8   | 64.8     | 90.0%           | n/a      |
| Northern Virginia                       | 711.6   | 807.9        | 909.5         | 997.6   | 1,057.7 | 1,107.7 | 1,157.9 | 446.3    | 62.7%           | 54.3%    |
| Suburban Maryland                       | 750.3   | 811.4        | 862.7         | 911.1   | 956.9   | 1,005.5 | 1,055.7 | 305.3    | 40.7%           | 37.1%    |
| MSA REGIONAL TOTAL                      | 1,710.3 | 1,871.3      | 2,037.5       | 2,189.5 | 2,307.9 | 2,422.1 | 2,532.3 | 822.0    | 48.1%           | 100.0%   |
| <b>TPB Model Region Total</b>           | 2,143.3 | 2,348.4      | 2,554.7       | 2,744.6 | 2,897.9 | 3,041.1 | 3,174.9 | 1,031.6  | 48.1%           | 100.0%   |

Forecasts for years 2000 to 2030 include all of Takoma Park.
 Included in Montgomery County total.
 Forecasts for all years do not include Fairfax County households (+/- 500 households) in TAZ 1609
 Tri-County Council for Southern Maryland develops ten-year incremental population, housing unit and employment forecass for Calvert County, Charles County and St. Mary's County.
 Source: Fredericksburg Area Metropolitan Planning Organization (FAMPO), CLRP 2030 Projections, March 2003
 Source: Baltimore Metropolitan Council, Round 6-B.

### Summary of Change between Employment Forecasts Draft Round 7.0a and Round 7.0 Cooperative Forecasts (Thousands)

| JURISDICTION                                  | 2000  | 2005 | 2010 | 2015 | 2020 | 2025 | 2030         |
|---|-------|------|------|------|------|------|--------------|
| District of Columbia                          | 0.0   | -0.2 | -0.1 | -0.7 | -0.5 | -1.2 | -0.9         |
| Arlington County                              | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          |
| City of Alexandria                            | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          |
| Central Jurisdictions                         | 0.0   | -0.2 | -0.1 | -0.7 | -0.5 | -1.2 | -0.9         |
| Montgomery County (1)                         | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          |
| Rockville (2)                                 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          |
| Prince George's County                        | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          |
| Fairfax County (3)                            | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          |
| City of Fairfax (4)                           | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          |
| City of Falls Church                          | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          |
| Inner Suburbs                                 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          |
| Loudoun County                                | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          |
| Prince William County                         | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          |
| City of Manassas                              | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          |
| City of Manassas Park                         | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          |
| Calvert County (5)                            | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          |
| Charles County (5)                            | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          |
| Frederick County                              | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          |
| Stafford County (6)                           | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          |
| Outer Suburbs                                 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          |
| Anne Arundel County (7)                       | 0.0   | 0.0  | -0.9 | 6.0  | 14.0 | 22.0 | 31.0         |
| Carroll County (7)                            | 0.0   | 2.8  | 7.5  | 7.7  | 7.7  | 7.7  | 8.7          |
| Howard County (7)                             | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          |
| Modeled Region -                              | 0.0   | 2.8  | 6.6  | 13.7 | 21.7 | 29.7 | <b>39.</b> 7 |
| <b>Baltimore Area Jurisdictions</b>           |       |      |      |      |      |      |              |
| King George County (6)                        | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          |
| Spotsylvania County (6)                       | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          |
| Modeled Portion Only                          | 2.6   | 2.9  | 3.5  | 4.0  | 4.5  | 5.0  | 5.4          |
| City of Fredericksburg (6)                    | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          |
| Modeled Region -                              | 2.6   | 2.9  | 3.5  | 4.0  | 4.5  | 5.0  | 5.4          |
| Fredericksburg Area Jurisdic                  | tions |      |      |      |      |      |              |
| St. Mary's County (5)                         | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          |
| Clarke County                                 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          |
| Fauquier County                               | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          |
| Jefferson County                              | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          |
| Modeled Region -<br>Other Jurisdictions       | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          |
| Northern Virginia                             | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          |
| Suburban Maryland                             | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          |
| MSA REGIONAL TOTAL<br>Regional Percent Change | 0.0   | -0.2 | -0.1 | -0.7 | -0.5 | -1.2 | -0.9         |
| <b>TPB Model Region Total</b>                 | 2.6   | 5.5  | 9.9  | 17.0 | 25.7 | 33.5 | 44.2         |

Forecasts for years 2000 to 2030 include all of Takoma Park
 Included in Montgomery County total.
 Forecasts for all years include Fairfax County Government employees working at the Fairfax County Public Safety Center.
 Forecasts for all years do not include Fairfax County Government employees (+/- 2,000 jobs) working at the Fairfax County Pu (5)Tri-County Council for Southern Maryland develops ten-year incremental population, housing unit and employment forecasts for Calvert County, Charles County and St. Mary's County.
 Source: Fredericksburg Area Metropolitan Planning Organization (FAMPO), CLRP 2030 Projections, March 2003, adjusted to common employment definition.
 Comparison is between the BMC Round 6-B and 6-A.

25-Apr-06

### **Summary of Change between Population Forecasts Draft Round 7.0a and Round 7.0 Cooperative Forecasts** (Thousands)

| JURISDICTION                                       | 2000        | 2005                                      | 2010                                      | 2015                                      | 2020       | 2025       | 2030                                      |
|--|-------------|---|---|---|------------|------------|---|
| District of Columbia                               | 0.0         | 0.0                                       | 0.0                                       | -0.1                                      | 0.4        | 0.8        | 1.3                                       |
| Arlington County                                   | 0.0         | 0.0                                       | 0.0                                       | 0.0                                       | 0.0        | 0.0        | 0.0                                       |
| City of Alexandria                                 | 0.0         | 0.0                                       | 0.0                                       | 0.0                                       | 0.0        | 0.0        | 0.0                                       |
| Central Jurisdictions                              | 0.0         | 0.0                                       | 0.0                                       | -0.1                                      | 0.4        | 0.8        | 1.3                                       |
| Montgomery County (1)                              | 0.0         | 0.0                                       | 0.0                                       | 0.0                                       | 0.0        | 0.0        | 0.0                                       |
| Rockville (2)                                      | 0.0         | 0.0                                       | 0.0                                       | 0.0                                       | 0.0        | 0.0        | 0.0                                       |
| Prince George's County                             | 0.0         | 0.0                                       | 0.0                                       | 0.0                                       | 0.0        | 0.0        | 0.0                                       |
| Fairfax County (3)                                 | 0.0         | 0.0                                       | 0.0                                       | 0.0                                       | 0.0        | 0.0        | 0.0                                       |
| City of Fairfax (4)                                | 0.0         | 0.0                                       | 0.0                                       | 0.0                                       | 0.0        | 0.0        | 0.0                                       |
| City of Falls Church                               | 0.0         | 0.0                                       | 0.0                                       | 0.0                                       | 0.0        | 0.0        | 0.0                                       |
| Inner Suburbs                                      | 0.0         | 0.0                                       | 0.0                                       | 0.0                                       | 0.0        | 0.0        | 0.0                                       |
| Loudoun County                                     | 0.0         | 0.0                                       | 0.0                                       | 0.0                                       | 0.0        | 0.0        | 0.0                                       |
| Prince William County                              | 0.0         | 0.0                                       | 0.0                                       | 0.0                                       | 0.0        | 0.0        | 0.0                                       |
| City of Manassas                                   | 0.0         | 0.0                                       | 0.0                                       | 0.0                                       | 0.0        | 0.0        | 0.0                                       |
| City of Manassas Park                              | 0.0         | 0.0                                       | 0.0                                       | 0.0                                       | 0.0        | 0.0        | 0.0                                       |
| Calvert County (5)                                 | 0.0         | 0.0                                       | 0.0                                       | 0.0                                       | 0.0        | 0.0        | 0.0                                       |
| Charles County (5)                                 | 0.0         | 0.0                                       | 0.0                                       | 0.0                                       | 0.0        | 0.0        | 0.0                                       |
| Frederick County                                   | 0.0         | 0.0                                       | 0.0                                       | 0.0                                       | 0.0        | 0.0        | 0.0                                       |
| Stafford County (6)                                | 0.0         | 0.0                                       | 0.0                                       | 0.0                                       | 0.0        | 0.0        | 0.0                                       |
| Outer Suburbs                                      | 0.0         | 0.0                                       | 0.0                                       | 0.0                                       | 0.0        | 0.0        | 0.0                                       |
| Anne Arundel County(7)                             | 0.0         | 0.1                                       | 0.0                                       | 1.0                                       | 1.9        | 2.8        | 4.7                                       |
| Carroll County (7)                                 | 0.0         | 0.0                                       | 0.0                                       | 0.0                                       | 0.0        | 0.0        | 0.0                                       |
| Howard County(7)                                   | 0.1         | 0.1                                       | 0.4                                       | 0.8                                       | 0.6        | 0.8        | 1.1                                       |
| Modeled Region -<br>Baltimore Area Jurisdictions   | 0.1         | 0.2                                       | 0.4                                       | 1.8                                       | 2.5        | 3.6        | 5.8                                       |
| Vina Coonse County (6)                             | 0.0         | 0.0                                       | 0.0                                       | 0.0                                       | 0.0        | 0.0        | 0.0                                       |
| King George County (6)                             | 0.0         | 0.0                                       | 0.0                                       | 0.0                                       | 0.0        | 0.0        | 0.0                                       |
| Spotsylvania County (6)<br>Modeled Portion Only    | 0.0<br>0.0  | $\begin{array}{c} 0.0 \\ 0.0 \end{array}$ | $\begin{array}{c} 0.0 \\ 0.0 \end{array}$ | $\begin{array}{c} 0.0 \\ 0.0 \end{array}$ | 0.0<br>0.0 | 0.0<br>0.0 | $\begin{array}{c} 0.0 \\ 0.0 \end{array}$ |
| Modeled Portion Only<br>City of Fredericksburg (6) | 0.0         | 0.0                                       |   | 0.0                                       | 0.0        | 0.0        | 0.0                                       |
| Cuy of Fredericksburg (0)                          | 0.0         | 0.0                                       | 0.0                                       | 0.0                                       | 0.0        | 0.0        | 0.0                                       |
| Modeled Region -<br>Fredericksburg Area Jurisdict  | 0.0<br>ions | 0.0                                       | 0.0                                       | 0.0                                       | 0.0        | 0.0        | 0.0                                       |
| St. Mary's County (5)                              | 0.0         | 0.0                                       | 0.0                                       | 0.0                                       | 0.0        | 0.0        | 0.0                                       |
| Si. Mary's County (5)<br>Clarke County             | 0.0         | 0.0                                       | 0.0                                       | 0.0                                       | 0.0        | 0.0        | 0.0                                       |
| Fauquier County                                    | 0.0         | 0.0                                       | 0.0                                       | 0.0                                       | 0.0        | 0.0        | 0.0                                       |
| Jefferson County                                   | 0.0         | 0.0                                       | 0.0                                       | 0.0                                       | 0.0        | 0.0        | 0.0                                       |
| seyjerson county                                   | 0.0         | 0.0                                       | 0.0                                       | 0.0                                       | 0.0        | 0.0        | 0.0                                       |
| Modeled Region -<br>Other Jurisdictions            | 0.0         | 0.0                                       | 0.0                                       | 0.0                                       | 0.0        | 0.0        | 0.0                                       |
| Northern Virginia                                  | 0.0         | 0.0                                       | 0.0                                       | 0.0                                       | 0.0        | 0.0        | 0.0                                       |
| Suburban Maryland                                  | 0.0         | 0.0                                       | 0.0                                       | 0.0                                       | 0.0        | 0.0        | 0.0                                       |
| MSA REGIONAL TOTAL<br>Regional Percent Change      | 0.0         | 0.0                                       | 0.0                                       | -0.1                                      | 0.4        | 0.8        | 1.3                                       |
| TPB Model Region Total                             | 0.1         | 0.2                                       | 0.4                                       | 1.7                                       | 2.9        | 4.4        | 7.1                                       |

(1) Forecasts for years 2000 to 2030 include all of Takoma Park

(1) Forecasts for all years 2000 include and Farshing Far

(3) ITI-County Council for Soundern waryiand develops ten-year incremental population, housing unit and employment forecasts for Calvert County, Charles County and St. Mary's County.
(6) Source: Rappahanock Area Development Commission (RADCO), March 2003. The estimates for 2010, 2020 and 2030 are control Virginia Employment Commission (VEC) and should only be used for transportation planning purposes. Incremental five-year esti and 2025) have been developed by MWCOG for the purpose of transportation modeling and air quality analysis.
(7) Comparison is between the BMC Round 6-B and 6-A.

## Summary of Change between Household Forecasts **Draft Round 7.0a and Round 7.0 Cooperative Forecasts** (Thousands)

| JURISDICTION                                     | 2000   | 2005 | 2010 | 2015 | 2020 | 2025 | 2030 |
|--|--------|------|------|------|------|------|------|
| District of Columbia                             | 0.0    | 0.0  | 0.0  | 0.0  | 0.4  | 0.7  | 1.0  |
| Arlington County                                 | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| City of Alexandria                               | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
|  |        |      |      |      |      |      |      |
| Central Jurisdictions                            | 0.0    | 0.0  | 0.0  | 0.0  | 0.4  | 0.7  | 1.0  |
| Montgomery County (1)                            | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Rockville (2)                                    | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Prince George's County                           | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Fairfax County                                   | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| City of Fairfax (3)                              | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| City of Falls Church                             | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Inner Suburbs                                    | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Loudoun County                                   | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Prince William County                            | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| City of Manassas                                 | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| City of Manassas Park                            | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Calvert County (4)                               | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Charles County (4)                               | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Frederick County                                 | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Stafford County (5)                              | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Outer Suburbs                                    | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Anne Arundel County(6)                           | 0.0    | 0.0  | 0.0  | 0.4  | 0.8  | 1.2  | 2.1  |
| Carroll County (6)                               | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Howard County (6)                                | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | -0.7 | -0.5 |
| Modeled Region -<br>Baltimore Area Jurisdictions | 0.0    | 0.0  | 0.0  | 0.4  | 0.8  | 0.5  | 1.6  |
| King George County (5)                           | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Spotsylvania County (5)                          | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Modeled Portion Only                             | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| City of Fredericksburg (5)                       | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Modeled Region -                                 | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Fredericksburg Area Jurisdie                     | ctions |      |      |      |      |      |      |
| St. Mary's County (4)                            | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Clarke County                                    | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Fauquier County                                  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Jefferson County                                 | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Modeled Region -                                 | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Other Jurisdictions                              |        |      |      |      |      |      |      |
| Northern Virginia                                | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Suburban Maryland                                | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| MSA REGIONAL TOTAL<br>Regional Percent Change    | 0.0    | 0.0  | 0.0  | 0.0  | 0.4  | 0.7  | 1.0  |
| TPB Model Region Total                           | 0.0    | 0.0  | 0.0  | 0.4  | 1.2  | 1.2  | 2.6  |

Forecasts for years 2000 to 2030 include all of Takoma Park
 Included in Montgomery County total.
 Forecasts for all years do not include Fairfax County households (+/- 500 households) in TAZ 1609
 Tri-County Council for Southern Maryland develops ten-year incremental population, housing unit and employment forecast for Calvert County, Charles County and St. Mary's County.
 Source: Rappahanock Area Development Commission (RADCO), March 2003.
 Comparison is between the BMC Round 6-B and 6-A.

25-Apr-06

# ATTACHMENT D

# MWAQC 8-Hour Ozone Planning Schedule\* SIP Planning and Transportation Conformity Determinations

May 06 June 06 Fall/Winte

|  | Fall 2004 | Winter<br>2004 | Spring<br>2005 | Summer<br>2005 | Fall-Winter<br>2005 | Spring-Sum<br>2006 | Fall-Winter<br>2006 | Spring<br>2007 |
|--|-----------|----------------|----------------|----------------|---------------------|--------------------|---------------------|----------------|
| Control Measure Development  |           |                |                |                |                     |                    |                     |                |
| Preliminary identification of new local measures                   |           |                |                |                |                     |                    |                     |                |
| Preliminary identification of regional controls (reduce transport) |           |                |                |                |                     |                    |                     |                |
| Adopt preliminary control strategy                                 |           |                |                |                |                     |                    |                     |                |
| Public Meetings on control measures                                |           |                |                |                |                     |                    |                     |                |
| Adopt control strategy   |           |                |                |                |                     |                    |                     |                |
| Modeling Analysis  |           |                |                |                |                     |                    |                     |                |
| Set-up, testing  |           |                |                |                |                     |                    |                     |                |
| Finalize protocol document   |           |                |                |                |                     |                    |                     |                |
| Strategy analysis  |           |                |                |                |                     |                    |                     |                |
| Complete attainment modeling                                       |           |                |                |                |                     |                    |                     |                |
| Complete Weight of Evidence  |           |                |                |                |                     |                    |                     |                |
|  |           |                |                |                |                     |                    |                     |                |
| nventory Development   |           |                |                |                |                     |                    |                     |                |
| 2002 Base Year, Submit to EPA                                      |           |                |                |                |                     |                    |                     |                |
| Projection year for 2009   |           |                |                |                |                     |                    |                     |                |
| Prelim. Emission Reduction Requirements                            |           |                |                |                |                     |                    |                     |                |
| Modeling inventories for attainment                                |           |                |                |                |                     |                    |                     |                |
| Develop RFP 2008 inventory   |           |                |                |                |                     |                    |                     |                |
| Conformity   |           |                |                |                |                     |                    |                     |                |
| Complete final 1-hour conformity                                   |           |                |                |                |                     |                    |                     |                |
| Complete 8-hour conformity FY2005-2010 TIP                         |           |                |                |                |                     |                    |                     |                |
| Complete 8-hour conformity FY2006-2011 TIP                         |           |                |                |                |                     |                    |                     |                |
| Develop 8-hour mobile budgets(SIP)                                 |           |                |                |                |                     |                    |                     |                |
| SIP Submittal  |           |                |                |                |                     |                    |                     |                |
| Public Meetings on control strategy                                |           |                |                |                |                     |                    |                     |                |
| Draft SIP Template   |           |                |                |                |                     |                    |                     |                |
| Prepare Draft Attainment SIP/Regl Air Quality Plan                 |           |                |                |                |                     |                    |                     |                |
| Adopt Draft Attainment SIP (MWAQC) 10/06                           |           |                |                |                |                     |                    |                     |                |
| Public Hearings  |           |                |                |                |                     |                    |                     |                |
| Approve SIP/Regional Air Quality Plan (12/06-1/07)                 |           |                |                |                |                     |                    |                     |                |
| Transmit SIP to IAQC 1/07  |           |                |                |                |                     |                    |                     |                |
| States Submit SIP to EPA<br>SIP Deadline: June 15, 2007            |           |                |                | ļ              |                     |                    |                     |                |
| SIF Deaulille. Julle 13, 2007                                      | <br>D-1   |                |                |                |                     |                    |                     |                |