

## PROGRAM HIGHLIGHTS

### 1. PLAN SUPPORT

#### A. Unified Planning Work Program (UPWP)

At its November 6 meeting, the Steering Committee approved amendments to the FY 2010-2015 TIP to modify funding for specific projects as requested by VDOT, MDOT and WMATA.

The Technical Committee was briefed on a major amendment that will increase the FY 2010 budget by \$868,000 and modify several work tasks. In March 2009 TPB approved the FY 2010 UPWP with conservative estimates of Maryland Department of Transportation (MDOT) and Virginia Department of Transportation (VDOT) FY 2009 federal allocations for the budget. Federal FY 2009 funding was not finalized until September 30, 2009 so the FY 2010 UPWP budget and certain work tasks now need to be amended. The TPB was briefed on the amendment in November will be asked to approve it on December 16.

#### B. Transportation Improvement Program (TIP)

On November 6, the TPB Steering Committee approved three amendments to the FY 2010-2015 TIP. The first amendment was requested by VDOT to modify funding for three road projects in Prince William County. The second amendment was requested by MDOT to replace federal funding sources with state funding for the Corridor Cities Transitway and Purple Line Light Rail projects. The third amendment was requested by WMATA to modify funding sources and totals for 37 projects to match the WMATA FY 2010 budget. At their November 18 meeting, the TPB approved an amendment to the TIP to reduce funding for the Intermodal Transportation Center at Union Station as requested by DDOT.

#### C. Constrained Long-Range Plan (CLRP)

During the month of November, staff completed the performance analysis of the long-range plan and worked on the draft CLRP and TIP brochure. Previously the two brochures were two separate publications, but will be combined into one. The CLRP At the November 6 Technical Committee, staff presented a draft of the performance analysis of the 2009 CLRP that would be included in the summary brochure for the 2009 CLRP and FY 2010-2015 TIP.

On November 9, the TPB and FHWA sponsored the "Linking Conservation and Transportation Planning Workshop." Staff helped organize the conference and finalized the agenda, the speakers, sent out invitations, tracked RSVPs, and most significantly revised seven maps of CLRP improvements and natural resources. The workshop was held as a follow-up to March 2008 workshop

that identified advance mitigation as a topic to explore for the TPB. The November 9 workshop largely focused on advance mitigation.

Staff presented the draft Call for Projects document and schedule for the 2010 CLRP and the FY 2011-2016 TIP to the TPB at their November 18 meeting. The document included a new section titled "Evolving Policy Context and Direction for the CLRP and TIP," which was based on feed-back from the October meeting. The Board requested a change to strengthen the language in this new section and then approved the document with the revised language.

#### D. Financial Plan

The sixth working group meeting on the financial analysis for the 2010 plan update was held on November 10. Staff from the implementing agencies reported that they are continuing to have difficulties finalizing their long range revenue forecasts due to the current budget shortfalls and downturn in transportation revenues. The next meeting is scheduled for January 26, 2010. The consultant distributed a first draft of the final report without the data tables for review. The consultant also continued to work with implementing agency staffs to review their available cost and revenue data and forecasting methodologies.

#### E. Public Participation

The CAC's meeting on November 12 included a briefing on the Greater Washington 2050 initiative of the Council of Governments and a briefing on the TPB's proposal to conduct a study on the public acceptability of road-use pricing. The Committee also discussed the TPB staff response to the CAC's recommendations urging the TPB to develop a regional transportation priorities plan.

At the TPB meeting on November 16, the Board extensively discussed the CAC's recommendations regarding the regional priorities plan. In response to the recommendations, the TPB decided to host a regional forum in the spring of 2010 to discuss regional transportation priorities. Based on the outcome of the regional forum in the spring of 2010, the TPB will develop a revised work plan that addresses the CAC's recommendations by explicitly integrating the processes of project development and prioritization, outreach and scenario analysis.

Staff hired a consultant to assist in the development of a scope for conducting outreach for the 2010 Constrained Long-Range Plan. In December, it is anticipated that a Request for Proposals will be issued to secure consultant assistance in conducting this outreach.

The TPB submitted a proposal on November 3 for funding under the Federal Value Pricing Pilot Program to perform a study on the public acceptability of road-use pricing. The cost of the study will be \$400,000. The proposal is

seeking \$320,000 from the Federal Highway Administration.

F. Private Enterprise Participation

The TPB Regional Taxicab Regulators Task Force met on November 19 and continued discussion on the regional reciprocity agreement. The Task Force voted to support the draft agreement, which will be presented by the 2009 chair to the CAOs Committee on January 6, 2010. The Task Force also received a presentation on the TPB Accessible Taxicab project and selected the new chair for 2010, who will be Bill Morrow from WMATC.

G. Annual Report

The November edition of the TPB News was produced and distributed.

H. Transportation / Land Use Connection Program (TLC)

Work proceeded on all ten projects that have been funded for the FY2010 round of TLC projects. Consultant proposals were selected for three projects using funding made available from the MDOT technical assistance account. Those three projects were approved by the TPB in September. Work proceeded on two projects that were initiated in October. Five additional projects had kickoff meetings in November and got underway. Three other projects will hold kickoff meetings in December and January.

Staff began work on the development of a scope for an evaluation of the TLC program which will identify cross-cutting themes and lessons that can be obtained from a thorough examination of the past four years of the TLC program. This evaluation will be used to identify opportunities for developing and potentially expanding the program in the future.

I. DTP Management

In addition to the provision of staff support for meetings of the TPB, the Steering Committee, and the technical Committee, the following activities were undertaken:

- The DTP Director briefed a group of Maryland state legislators on transportation funding issues at a meeting hosted by the Montgomery County Chamber of Commerce. The chamber decided to write a letter of support for the region's TIGER grant application
- The DTP Director briefed Montgomery County's Sustainability Working Group on TPB's transportation-related greenhouse gas reduction scenario planning activities

- The DTP Director briefed the NIH Community Liaison Council for the Medical Center BRAC project on the TPB's proposals for a priority bus system.

## 2. COORDINATION PLANNING

### A. Congestion Management Process (CMP)

Staff continued work on the 2010 CMP Technical Report, including:

- New GIS visualization of traffic information on arterials. The improved GIS map would show *directional* congestion and travel time reliability for all segments of arterials covered by the I-95 Corridor Coalition's Vehicle Probe Project in this region.
- Monthly average travel time index, buffer time index and planning time index. These indices were computed and also graphed by time of day and day of week.
- A memorandum entitled: "Update of Local Jurisdictional Travel Demand Management Strategies for the 2010 Congestion Management Process (CMP) Technical Report" was prepared and distributed to the Travel Management Subcommittee for its November 24 meeting.

On November 23 and 30, staff monitored two webinars offered by FHWA Travel Model Improvement Program (TMIP), Dynamic Traffic Assignment #3 and #4: No Sweat, a More Detailed Look at DTA (Part 1 & 2).

### B. Management, Operations, and Intelligent Transportation Systems (ITS) Planning

- The Management, Operations, and Intelligent Transportation Systems (MOITS) Policy Task Force and Technical Subcommittee met jointly on November 10, 2009. The group continued discussion of MOITS Strategic Plan development activities, including a presentation from the strategic plan consultant team, as well as the status of MOITS and related work program items.
- Staff continued coordinating with the Regional Emergency Support Function #1 – Emergency Transportation Program and Committee, and provided input for and participated in the regular RESF-1 Committee meeting on November 13. See also Item 2.C.
- Staff also continued coordination work with the Metropolitan Area Transportation Operations Coordination (MATOC) Program, including participation in MATOC meetings on November 5, 12, and 17.
- MOITS Strategic Plan Activities: Staff was in frequent contact throughout November with and oversaw the consultant team as the team continued

developing the plan, as well as to plan for and conduct the second MOITS Strategic Plan Working Group meeting on November 10.

- Regional ITS Architecture Activities: The MOITS Regional ITS Architecture Subcommittee met on November 19, discussing recent updates of the Maryland and Virginia architectures. Staff also prepared for a presentation on the Regional ITS Architecture during a two-day DDOT ITS Architecture workshop scheduled for December 1 - 2.
- Traffic Signals Activities: The MOITS Traffic Signals Subcommittee met on November 23, receiving a presentation on Bluetooth traffic monitoring technology from Dr. Stan Young of the University of Maryland, and discussing initial plans for a 2010 Baltimore/Washington regional joint Traffic Signals Forum. Staff continued work on a regional summary map of traffic signal locations and conditions.
- Staff undertook preparatory and supporting work in the above areas.
- On November 24, staff participated in the monthly meeting of the Regional Transit Operators Group.

#### C. Transportation Emergency Preparedness Planning

The Regional Emergency Support Function-1 – Transportation (RESF-1 – Transportation) Committee provides an interface between transportation and emergency management agencies and activities. In addition to supporting RESF-1's meeting on November 13<sup>th</sup>, staff also attended multiple UASI 2010 priority setting meetings. Staff began preparations for the next monthly meeting which will take place on December 11<sup>th</sup> 2009.

Staff also presented an update on the 2010 UASI process and RESF-1 activities to MOITS at its November 10<sup>th</sup> meeting. Staff attended meetings related to regional priority setting. During this time period staff also worked with RESF-1 chairs to develop four projects to be submitted for UASI funding. Staff also attended the Passenger Rail subcommittee of the Fire Chiefs Committee on November 20<sup>th</sup>.

#### D. Transportation Safety Planning

Following the presentation at the October 30<sup>th</sup> meeting of the Transportation Safety Subcommittee from Michael Pack on the progress which the [University of Maryland CATT Lab](#) made on the Maryland data mining and evaluation tool, Mr. Pack provided a cost estimate for a scoping study for a regional tool. The estimate came in somewhat higher than had been hoped and staff will explore options for funding, including obtaining contributions from other agencies.

Staff also made a presentation on the Regional Transportation Safety picture in the Washington region to the Management, Operations, and Intelligent Transportation Systems Subcommittee on November 10.

E. Bicycle and Pedestrian Planning

As provided for in the UPWP, at its November 17<sup>th</sup> meeting the bicycle and pedestrian subcommittee approved a list of top priority unfunded bicycle and pedestrian projects to be presented to the TPB, subject to possible revisions of the budget numbers and some changes to the project description of the WMATA bicycle parking project.

The subcommittee indicated that a seminar on bicycle facility design beyond the provisions of the current AASHTO (American Association of Highway Transportation Officials) guide would be welcome, to be followed later in Spring 2010 by a panel seminar on liability with respect to bicycle and pedestrian facilities.

The Subcommittee received a presentation on multimodal performance measures for transportation projects. The Subcommittee agreed that performance measures for walking and biking were needed. The new 2010 Highway Capacity Manual of the Transportation Research Board will provide multimodal level of service, which could help solve the performance measure problem.

Mr. John Mason, former TPB Chair, currently with the Eagle Scouts of America, spoke to the Subcommittee about a proposal to mark the centenary of the Eagle Scouts with a volunteer initiative to build and maintain trails. While most of the Trails managers on the Subcommittee were not in attendance, the Subcommittee was able to provide a number of suggestions and contacts. Staff later followed up with the National Park Service, which will host a meeting/conference call of trails managers in January to discuss Mr. Mason's proposal.

Staff finalized the project descriptions and budget numbers on the list of top priority unfunded bicycle and pedestrian projects, prepared the mail-out cover memo to the TPB Technical Committee, and gathered photos and information for a presentation to the TPB Technical Committee.

Staff visited and took photos of several newly completed bicycle facilities, for use in the bicycle and pedestrian plan.

F. Regional Bus Planning

During the month of November, staff attended a brown bag lunch presentation by ICF on their work developing an NCHRP report on benefit/cost analysis of converting a lane for bus rapid transit. Staff had experience doing benefit/cost analysis through the TPB's recent ARRA TIGER grant application, and helped provide some insight to the consultant team working on the project. Staff prepared for the November 24 meeting of the Regional Bus Subcommittee, during which subcommittee members were encouraged to comment on a draft work plan for a consultant study on guidelines for implementing bus priority

strategies in the Washington region. Staff continued to research opportunities for coordination between bus operators, and visualization of out-year bus transit routes and levels of service.

G. Human Service Transportation Coordination

Staff prepared for the November 12 meeting of the Human Service Transportation Coordination Task Force. Staff prepared a small group activity for members to discuss recommended priority actions to be included in the plan. The Task Force was briefed on the Wheelchair Accessible Taxicab Pilot Project. A meeting summary was prepared. Staff continued to work on updates to the Coordinated Human Service Transportation Plan, including revising recommended projects and drafting the plan update. Staff also developed a PowerPoint presentation on the coordinated plan update for the next Technical Committee meeting.

Staff organized a demonstration and press event for the wheelchair accessible taxis by each taxi company participating in the Wheelchair Accessible Taxicab Project. The demonstration was held before the November 12 Task Force meeting. Staff worked with COG's Office of Public Affairs to draft a media advisory and press release about the arrival of the accessible cabs. Media coverage of the event included the Washington Post, the Examiner and WAMU.

H. Freight Planning

- Staff continues to work on the *National Capital Region Freight Plan*. This includes collecting information, identifying publically available data, and analyzing information.
- Staff coordinated with the Maryland Food Center Authority and the Baltimore Metropolitan Council to have a joint tour for the November 5, 2009 Freight Meeting.
- Staff coordinated with Norfolk Southern staff to have them present at the November 6, 2009 Technical Committee meeting. The Technical Committee discussed a draft letter in response to the letter received from Norfolk Southern on October 2, 2009 in request of support for the Norfolk Southern Crescent Corridor Freight Project.
- Staff prepared and distributed the monthly *Focus on Freight*-November 2009 newsletter.

3. FORCASTING APPLICATIONS

A. Air Quality Conformity

Regarding the air quality conformity assessment of amendments to the 2009 CLRP and FY2010 – 2015 TIP, staff completed the final report and distributed it

to the appropriate federal, state, and local agencies. The final report is posted on COG's website. This work is also referenced below within the District of Columbia and Maryland technical assistance programs, which funded the effort.

Staff completed the Call For Projects document and schedule for the air quality conformity analysis of the 2010 CLRP and the FY2011-2016 TIP. The document and schedule were presented to the TPB, the TPB Technical Committee, and the Travel Management Subcommittee at their respective November meetings.

B. Mobile Emissions Analysis

Staff continued with climate change work activities, from construction of mobile source emissions inventories to assessment of control strategies. Staff prepared and presented to the Travel Management Subcommittee two technical memorandum a: (1) documentation of new mobile source greenhouse for emissions inventories, and (2) a status report outlining the CO2 reduction potential of measures analyzed to date including those from the TERM Tracking Sheet, Potential TERMS' under consideration for conformity assessments measures from the COG Climate Change Report, and other new initiatives.

The Travel Management Subcommittee met on November 24, 2009 and was briefed on the following items: 2010 CLRP and FY2011-2016 TIP conformity assessment schedule, mobile source greenhouse gas (GHG) emissions inventory development, GHG control strategy assessment, aspirations scenario, transportation element of the regional climate change work program, and congestion management processes The next meeting of the subcommittee will be held on January 26, 2010.

Staff also prepared comments on the COG Climate, Energy and Environment Policy Committee (CEEPC)'s draft 2009 – 2012 Regional Climate Action Workplan, presented the comments to the TPB Technical Committee, and transmitted them to COG / DEP for discussion at a meeting of a CEEPC ad hoc work group.

In conjunction with COG/DEP, staff continued work activities to test the new draft version of EPA's MOVES model, executing a series of sensitivity tests using local data inputs. Activities included co-hosting and participating in the November meeting of the MOVES Task Force. Staff completed development of four local inputs for the MOVES model (vehicle population, age distribution, annual VMT, and VMT percentage by facility type) and documented the process used to develop the local inputs.

The MOVES Task force met on November 17, 2009 and discussed the following items: MOVES local inputs, truck apportionment, and draft results based on local inputs. The next meeting of the Task Force will be held on January 19, 2010.



In support of SIP and greenhouse gas planning activities, staff participated in meetings/conference calls of MWAQC's Executive Committee, the CEEPC ad hoc work group, and the full CEEPC.

In November COG / DEP staff performed the following:

- Coordinated with DTP staff the agenda and materials for the MOVES Task Force meeting in November.
- Participated in the MOVES Task Force meeting held in November to address various issues associated with the transition to EPA's new MOVES model.
- Continued to work collaboratively with COG/DTP staff on analysis of data inputs needs for the MOVES model.
- Participated in MARMA MOVES model conference calls regarding mobile modeling issues as part of photochemical modeling for the new ozone and fine particle standards and also received latest updates from EPA OTAQ staff on the MOVES model.
- Presented updates on MOVES transition issues and MOVES Task Force in MWAQC-TAC meeting, attended Travel Management Subcommittee (TMS) conference call, TPB Technical Committee, and TPB meetings in November.
- Researched issues related to reducing emissions from motor vehicles through integration of vehicle electrification infrastructure and smart grid technologies.
- Coordinated with stakeholders in the region on availability of biofuels to reduce emissions from heavy duty diesel engines.
- Met with transportation staff and coordinated response to issues related to inclusion of transportation related targets in regional air quality and climate change plans.
- Coordinated with state transportation officials regarding meeting schedules and agendas.
- Tracked development of the "What Would It Take" Scenario study.
- Developed integrated timeline for future conformity using the MOVES model and the State Implementation Planning process.

### C. Regional Studies

TPB staff continued work on the CLRP Aspirations and What Would it Take scenarios. Staff developed an analysis of the land use shifts proposed and also

determined final proposal details for the transportation component. Staff continued finalizing the Aspirations Scenario Transit Network, including coding of new bus rapid transit lines. Staff also continued to analyze measures from the COG Climate Change Report for incorporation into the What Would it Take scenario. Staff completed further refinement and analysis on alternative fuels and various transportation demand measures.

D. Coordination Cooperative Forecasting & Transportation Planning

Staff continued the processing and geocoding of the Dunn & Bradstreet employment files for 2005 and 2007 to assist local jurisdictions in prepare base year small area employment estimates by major industry type for the development of Round 8.0 Cooperative Forecasts on the new TAZ system.

Staff continued to review the draft jurisdiction level Round 8.0 forecasts with the Planning Directors' Technical Advisory Committee (PDTAC). Staff prepared an analysis of the draft local jurisdiction household forecasts relative to the regional econometric model.

Staff responded to questions on the Cooperative Forecast Round TAZ-level 7.2A database of forecast employment, households and population growth.

4. DEVELOPMENT OF NETWORK / MODELS

A. Network Development

Network development supporting the updated 3,722 Transportation Analysis Zone (TAZ) system continued in November. The database supporting the GIS-based network editing application was updated to be consistent with the current TIP and plan (i.e., the 2009 CLRP and FY 2010-2015 TIP) networks that are currently used in the Cube software-based travel modeling format. The network is now ready to be renumbered in anticipation of network coding over the new TAZ system. The Travel Forecasting Subcommittee was briefed on the progress of this work at its November 20 meeting.

Staff also continued processing base year (2009) transit schedule data in accordance with the TPB's annual network updating procedures. The refreshed transit files will inform existing 2,191-based networks that will be developed to support the air quality conformity assessment of the 2010 CLRP and FY 2011-2016 TIP.

B. GIS Technical Support.

Staff continued to monitor the performance of ArcGIS 9.2 and the GIS server.

Staff continued to assist the network development team in preparing the regional highway and transit network databases for loading into the Master Highway and Transit Network editing application.

Staff completed the update of the water body layer in the spatial data library with additional attribute data from the NAVTEQ database.

Staff completed the testing the ESRI ETL (Edit, Transform, and Load) tool and began the mapping of attribute data from multiple sources for the USGS Regional Landmark and Transportation project.

Staff attended the monthly MD MSGIC executive committee meeting to increase GIS coordination among COG and state and local government agencies in Maryland.

### C. Models Development

Staff continued cleaning and checking the 2007/08 Household Travel Survey files, i.e., the household, person, vehicle, and trip files. The survey will serve as the primary source of calibration data for the Version 2.3 travel model. This work included comparisons of demographic data from the survey against the 2007 American Community Survey, internal logic checks of the demographic data (e.g., making sure there were no households with more workers than people), and comparisons of travel data from the 2007/08 survey against the previous 1994 Household Travel Survey. The Travel Forecasting Subcommittee was briefed on the staff findings at the November 20 meeting.

Staff continues to analyze the year-2007 traffic counts, both daily and hourly, that are available in the Regional Transportation Data Clearinghouse (RTDC). Staff has also continued to collect transit ridership data from individual providers.

The development of land use data (Round 7.2a) on the new 3,722 zone system has also continued in November. The 7.2a land use currently exists on the 2,191TAZ system, and so a conversion to the 3,722 zone system is needed to support Version 2.3 model calibration work. The Round 8.0 Cooperative Forecasts will be the first land activity forecasts prepared for the new zone system. The Round 8.0 forecasts have not yet been released.

TPB staff has prepared a new task order (#7) for Cambridge Systematics, Inc. (CS), the consultant currently on retainer to TPB to conduct focused research on best modeling practices in the U.S. Staff has also formulated a list of additional tasks for CS to work on during FY 2010. TPB staff will meet with CS in early December to discuss the additional tasks.

Staff spent time in November supporting an Association of Metropolitan Planning Organizations (AMPO) study of advanced travel modeling implementations across the U.S. Staff reviewed the Task 1 report and prepared written feedback to other MPO members serving on the project steering committee. A teleconference of steering committee members is planned for early December.

D. Software Support

Staff continued work activities to implement the new GIS database network development application. DTP staff completed work to execute a variety of benchmark travel demand model runs in testing the performance of updated processing and storage array hardware. Staff worked closely with OTPS staff to transition to the new server and successfully completed a test model run on the new server once the transition was complete.

Staff successfully completed research work exploring distributive processing, a new feature of Cube that shortens model runtime by running multiple scripts in parallel utilizing multiple CPUs. Staff continued to research methods appropriate for HOT lane toll setting in order to reduce processing time.

5. **TRAVEL MONITORING**

A. Cordon Counts

No activity to report during this reporting period.

B. Congestion Monitoring and Analysis

Staff performed some field work in support of the arterial travel time/speed survey. A training/orientation session was held with the temporary drivers prior to the commencement of the project travel time runs; data collection started on the week of November 16<sup>th</sup> and is proceeding as per schedule.

C. Travel Surveys and Analysis Household Travel Survey (HTS)

Staff continued the preparation of the technical documentation for the final geocoded, edited and factored Household Travel Survey (HTS) trip file.

Staff reviewed the household, vehicle, person and trip survey files with the members of the models development team and analyzed changes in average household size relative to the 2000 Census and changes in person trips rates by demographic subgroups relative to the 1994 Household Travel Survey.

Staff met and coordinated with the Baltimore Metropolitan Council staff on the processing and analysis of the combined Household Travel Survey for the Washington and Baltimore metropolitan regions.

Staff assisted Arlington County with plans to conduct a supplemental Household Travel Survey of 400 hundred household in the Columbia Pike, Shirlington and Route 1 Corridor within the County.

D. Regional Transportation Data Clearinghouse

Staff began the factoring of the supplemental traffic counts for DC to Average Annual Daily Traffic (AADT) and Average Annual Week Day Traffic (AAWDT) volumes.

Staff began the loading of DC hourly traffic volumes to the Regional Transportation Data Clearinghouse database.

Staff continued development of work plan for recommended enhancements to the Regional Transportation Clearinghouse in the second half FY 2010 and in FY 2011.

6. **TECHNICAL ASSISTANCE**

A. **DISTRICT OF COLUMBIA**

1. Program Development, Data Requests & Miscellaneous Services

The program manager reviewed final status of the projects in technical assistance program.

2. FY10 DDOT Traffic Counts

Staff began the review of the CY 2009 traffic counts and associated documentation received from the contractor.

3. Bicycle Counts

No work activity during the reporting period.

4. Phase II – Evaluation of the Metrobus Priority Corridor Network

This project provides partial funding for the consultant study to evaluate the Metrobus Priority Corridor Network. See the progress report on this study under WMATA work activity 6.D.3.

5. DC WARD 6 Ballpark

The draft report was submitted to DDOT in early October. Following DDOT review, staff will address all comments and prepare a final report if necessary. To date, no comments have been received.

6. 2009 Automobile Travel Time Survey

No activity to report during this reporting period.

7. Unprogrammed

No work activity specified.

8. Purple Line/Return to L'Enfant Conformity Assessment

The conformity assessment component of this work, jointly funded by MDOT and DDOT, is reported under work activity 3.A. above.

9. DDOT HPMS Project

Staff began the draft agenda for DDOT's monthly HPMS Coordinating Committee meeting, participated in this meeting and drafted the meeting minutes.

B. **MARYLAND**

1. Program Development /Management

Staff continued coordination with MDOT and MD SHA staff regarding initiation and execution of FY2010 work program activities. This included hosting the bi-monthly coordination meeting with MD SHA in the COG offices on November 20.

2. Miscellaneous Services

No activity to report during this reporting period.

3. MDOT Training / Technical Support

Staff reviewed documentation reports, e.g., draft environmental impact study, alternatives retained for detailed study, for various project planning studies in Maryland.

4. SHA-Western Mobility/Capital Beltway Studies

In response to a Maryland SHA request, staff prepared a draft scope of work for the I-270 study and distributed it at the MD SHA/ TPB coordination meeting in November. As a follow-up to the meeting, staff obtained additional documentation detailing some of the assumptions that will be applied in the study.

5. MTA-Corridor Cities Transit way / Purple Line Transit

The conformity assessment component of this work, jointly funded MDOT and DDOT, is reported under the (regional) Air Quality Conformity project.

6. Project Planning / Feasibility Studies

Staff did some preliminary work to review past alternatives analyses and technical methods applied in Maryland corridor studies to identify 'best' and consistent technical methods for future project planning work.

7. Managed Lanes-Planning

Staff executed the final set of HOT lane travel demand forecasts in this stage of the study. The final build alternative assumes HOT lanes on I-270, Capital Beltway (MD), I-95 (MD), US 50 and US 301. The results were documented in a technical memorandum and shared with MD SHA staff at November MD SHA/ TPB coordination meeting.

In conjunction with this project, staff completed research on potential use of time-of-day counts and simulated volumes. The findings of this effort were documented in a technical memorandum and shared with MD SHA staff at the afore-mentioned November coordination meeting.

8. Traffic Impacts

No activity to report for during this reporting period.

9. Project Evaluation

No activity to report during this reporting period.

10. Statewide Travel Demand Model

On November 24, 2009, staff met with MD SHA, University of Maryland, PB, COG's Department of Community Planning and other TPB staff and discussed possible land use development approaches for the Statewide model. COG's and TPB's land use experts recommended that Statewide model adopt COG's employment forecasts as they are. It was also emphasized that once the land use forecasts from different parts of the state have been created/ assembled, the study team should adjust them accordingly to account for definitional differences of employment (BLS versus BEA).

11. Development/Refinement of Technical Methods

In a continued review of economic analysis tools that may be used to evaluate potential transportation investments for MDSHA, staff continued analysis of the FHWA software, BCA.net. Staff reported on the status of the work at the bi-monthly Maryland Coordination meeting.

12. Monitoring Studies

No activity to report during this reporting period.

13. Transportation Land Use Connection (TLC)

Consultant proposals were selected for three projects using funding made available from the MDOT technical assistance account. Those three projects were approved by the TPB in September.

14. Phase II – Evaluation of the Metrobus Priority Corridor Network

This project provides partial funding for the consultant study to evaluate the Metrobus Priority Corridor Network. See the progress report on this study under WMATA work activity 6.D.3.

C. **VIRGINIA**

1. Program Development

Staff developed a more detailed project scope and schedule for the Northern Virginia HOV Facilities Monitoring and Data Collection project for the purpose of identifying remaining resources to prepare an enhanced commuter corridor report for the Dulles Corridor for NVTTC. This project would be a separate UPWP project to be completed in 2010.

2. Miscellaneous Services

No activity to report during this reporting period.

3. Northern Virginia HOV Facilities Monitoring and Data Collection

All traffic counts identified for this project were completed in November. Most travel time runs were also completed during November, however, a few runs remained to be performed in early December. These included travel time runs requested by VDOT during November to be performed along the I-66 Corridor.

It is anticipated that all travel time runs will conclude in early December, and initial data products will be provided to VDOT later in December. Traffic count locations for this effort include:

- I-95 at Newington
- I-395 at Glebe
- I-66 at Nutley
- I-66 at Sycamore
- VA 267 (Dulles Toll Road) at Hunter Mill
- Rt7/ Leesburg Pike



- Old Dominion Blvd
- Georgetown Pike
- Lewinsville Rd.

Travel time runs are performed for the AM and PM peak period on I-95/I-395, I-66 and VA 267 (Dulles Toll Road).

4. High Occupancy / Toll (Hot) Lane Analysis I-95 / 395 Corridor

No activity to report during this reporting period.

5. Travel Forecast Model Refinements

No activity to report during this reporting period.

6. Data Mine State of the Commute Survey

No activity to report during this reporting period.

7. Phase II - Evaluation of the Metrobus Priority Corridor Network

This project provides partial funding for the consultant study to evaluate the Metrobus Priority Corridor Network. See the progress report on this study under WMATA work activity 6.D.3.

## **WMATA**

1. Program Development

No activity to report during this reporting period.

2. Miscellaneous Services

TPB staff provided travel demand and network data as requested for the WMATA Regional Transit System Plan project.

3. Phase II – Evaluation of the Metrobus Priority Corridor Network

During the month of November, the consultant team completed development of the measures of effectiveness for the PCN modified alternative, prepared briefing materials for the November 18 TAC meeting and presented findings at the meeting, and completed a preliminary analysis of the ridership implications of eliminating the exclusive guideway elements from the modified PCN alternative at the request of WMATA. TPB staff continued to provide limited technical services to WMATA and the selected consultant team in support of this project. Staff facilitated a meeting of the study's Technical Advisory Committee, and assisted with data visualization for changes in

accessibility to jobs and households due to the PCN. Staff also reviewed and approved invoices from the consultant and reviewed consultant work products.

4. Analyze Bus Passenger Survey Trip Origins and Destinations

No activity to report during this reporting period.

5. Collection of Bus Passenger Counts

No activity to report during this reporting period.

7. **CONTINUOUS AIRPORT SYSTEM PLANNING (CASP) PROGRAM**

A. Conduct 2009 Air Passenger Survey

Survey questionnaires completed for the 2009 Washington-Baltimore Regional Air Passenger Survey were sent out for data entry during November. Upon receipt of the raw data file, which is anticipated in December, staff will commence processing and analyzing data collected from this survey effort and coordinate with the Aviation Technical Subcommittee on future efforts to document survey results. The survey was conducted at all three commercial airports in the region: Baltimore-Washington International Thurgood Marshal Airport, Ronald Reagan Washington National Airport, and Washington-Dulles International Airport. More than 21,000 surveys for 685 flights were completed accounting for 37,000 passengers.

B. Process 2009 Air Passenger Survey

This project has not yet started.

C. Ground Access Forecast and Element Updates

1) Update Air Passenger Ground Access Forecasts (Phases 1 and 2)

No activity to report during this reporting period.

2) Ground Access Element Update

Staff continued identifying and reviewing ground existing and planned ground access facilities as part of the supply analysis component of the Ground Access Element Update.

D. Ground Access Travel Time Study

No activity to report during this reporting period. This project has not yet started.

Other CASP Activities

No activity to report during this reporting period.

8. **SERVICES/SPECIAL PROJECTS**

A. DDOT Commercial Curbside Loading Zone Data Collection

Field data collection for this project concluded in early November. This entailed taking digital images of all loading zones and the corresponding signs identifying the loading zones, noting the GPS coordinates, and entering other attribute data concerning the loading zones into a GIS-compatible database. It is anticipated that the database will be provided to DDOT in December.

**CONSULTANT SUPPORT**

1. Cambridge Systematics, Inc. – Technical Assistance – Travel Demand Model Development and Application - \$150,000.
2. Cambridge Systematics, Inc – Analysis of Financial Resources for the 2010 CLRP for the Washington Region - \$100,000.
3. MCV Associates- Traffic Count Program - \$60,000.

**FY 2010 TRANSPORTATION PLANNING BOARD  
COG/TPB BUDGET EXPENDITURE SUMMARY  
FY-TO-DATE NOVEMBER 30, 2009**

12/15/2009

	BUDGET TOTAL	FUNDS EXPENDED	% FUNDS EXPENDED
<b>1. PLAN SUPPORT</b>			
A. Unified Planning Work Program (UPWP)	70,700.00	34,049.74	48%
B. Transportation Improvement Program (TIP)	151,700.00	64,736.54	43%
C. Constrained Long-Range Plan	638,400.00	207,134.98	32%
D. Financial Plan	134,000.00	31,815.05	24%
E. Public Participation	343,900.00	169,798.32	49%
F. Private Enterprise Participation	18,300.00	6,139.64	34%
G. Annual Report	80,100.00	12,168.98	15%
H. Transportation / Land Use Connection Program	465,000.00	89,744.56	19%
I. DTP Management	452,100.00	122,128.26	27%
<b>SUBTOTAL</b>	<b>2,354,200.00</b>	<b>737,716.07</b>	<b>31%</b>
<b>2. COORDINATION PLANNING</b>			
A. Congestion Management Process (CMP)	155,000.00	71,946.38	46%
B. Management, Operations & ITS Planning	390,300.00	147,147.49	38%
C. Emergency Preparedness Planning	75,400.00	23,945.06	32%
D. Transportation Safety Planning	100,000.00	23,703.11	24%
E. Bicycle and Pedestrian Program	108,700.00	30,757.95	28%
F. Regional Bus Planning	100,000.00	43,128.20	43%
G. Human Service Transportation Coordination Planning	114,800.00	35,714.07	31%
H. Freight Planning	130,000.00	55,733.88	43%
<b>SUBTOTAL</b>	<b>1,174,200.00</b>	<b>432,076.14</b>	<b>37%</b>
<b>3. FORECASTING APPLICATIONS</b>			
A. Air Quality Conformity	563,200.00	209,517.75	37%
B. Mobile Emissions Analysis	640,100.00	275,661.98	43%
C. Regional Studies	315,800.00	134,762.03	43%
D. Coord. Cooperative Forecasting & Trans Planning	726,800.00	229,582.53	32%
<b>SUBTOTAL</b>	<b>2,245,900.00</b>	<b>849,524.29</b>	<b>38%</b>
<b>4. DEVELOPMENT OF NETWORKS AND MODELS</b>			
A. Networks Development	769,700.00	257,165.30	33%
B. GIS Technical Support	548,800.00	219,721.94	40%
C. Models Development	1,221,200.00	387,533.36	32%
D. Software Support	178,900.00	26,894.72	15%
<b>SUBTOTAL</b>	<b>2,718,600.00</b>	<b>891,315.31</b>	<b>33%</b>

**FY 2010 TRANSPORTATION PLANNING BOARD  
COG/TPB BUDGET EXPENDITURE SUMMARY  
FY-TO-DATE NOVEMBER 30, 2009**

	BUDGET TOTAL	FUNDS EXPENDED	% FUNDS EXPENDED
<b>5. TRAVEL MONITORING</b>			
A. Cordon Counts	437,750.00	40,490.25	9%
B. Congestion Monitoring and Analysis	525,000.00	133,592.19	25%
C. Travel Survey and Analysis Household Travel Survey	410,000.00	167,154.05	41%
D. Regional Transportation Clearinghouse	267,900.00	63,744.75	24%
<b>SUBTOTAL</b>	<b>1,640,650.00</b>	<b>404,981.23</b>	<b>25%</b>
<b>SUBTOTAL CORE PROGRAM ITEMS 1-5</b>			
	<b>10,133,550.00</b>	<b>3,315,613.04</b>	<b>33%</b>
<b>6. TECHNICAL ASSISTANCE</b>			
A. District of Columbia	422,050.00	99,332.48	24%
B. Maryland	820,200.00	182,812.95	22%
C. Virginia	529,800.00	147,292.32	28%
D. WMATA	202,099.00	110,836.59	55%
<b>SUBTOTAL</b>	<b>1,974,149.00</b>	<b>540,274.35</b>	
<b>TPB GRAND TOTAL</b>	<b>12,107,699.00</b>	<b>3,855,887.39</b>	<b>32%</b>

**FY 2010 TRANSPORTATION PLANNING BOARD  
FINANCIAL STATUS OF TECHNICAL ASSISTANCE**

FY-TO-DATE NOVEMBER 30, 2009  
SUPPLEMENT 1

	COST CODES	TOTAL		TOTAL		FTA/STALOC		PL FUNDS/LOC	
		AUTHORIZED BUDGET	EXPENDITURES	AUTHORIZED BUDGET	EXPENDITURES	AUTHORIZED BUDGET	EXPENDITURES		
<b>A. District of Columbia</b>									
1. Program Development, Data Requests & Misc. Services	040	17,500	17,045.71	1,574	1,533.36	15,926	15,512.35		
2. DDOT Traffic Counts	041	150,000	10,850.16	13,493	976.04	136,507	9,874.13		
3. Bicycle Counts	042	70,000	88.00	6,297	7.92	63,703	80.08		
4. Phase II - Evaluation of the Metrobus Priority Corridor Network	043	33,000	26,638.46	2,969	2,396.29	30,031	24,242.17		
5. DC Ward 6 Ballpark	044	55,800	11,703.47	5,020	1,052.80	50,780	10,650.68		
6. 2009 Automobile Travel Time Survey	045	60,000	1,082.25	5,397	97.35	54,603	984.89		
7. Unprogrammed	046	3,750	98.57	337	8.86	3,413	89.71		
8. Purple Line / Return to L'Enfant Conformity Assessment	047	32,000	31,825.86	2,879	2,863.33	29,121	28,962.53		
<b>SUBTOTAL</b>		<b>422,050</b>	<b>99,332.48</b>	<b>37,966</b>	<b>8,935.94</b>	<b>384,084</b>	<b>90,396.54</b>		
<b>B. Maryland</b>									
1. Program Development/Management	060	25,000	10,632.32	2,249	956.44	22,751	9,675.88		
2. Miscellaneous Services	061	24,200	0.00	2,177	0.00	22,023	0.00		
3. MDOT Training / Technical Support	062	25,000	3,764.11	2,249	338.60	22,751	3,425.51		
4. SHA-Western Mobility/Capital Beltway Studies	063	31,000	0.00	2,789	0.00	28,211	0.00		
5. MTA- Corridor Cities Transit way / Purple Line Transit	064	40,000	31,882.16	3,598	2,867.99	36,402	29,014.18		
6. Project Planning / Feasibility Studies	065	132,000	1,758.82	11,874	158.22	120,126	1,600.60		
7. Managed Lanes-Planning	066	135,000	108,830.49	12,144	9,789.94	122,856	99,040.55		
8. Traffic Impacts	067	100,000	1,082.25	8,996	97.35	91,004	984.89		
9. Project Evaluation	068	40,000	0.00	3,598	0.00	36,402	0.00		
10. Statewide Travel Demand Model	069	35,000	12,175.97	3,148	1,095.30	31,852	11,080.67		
11. Development/Refinement of Technical Methods	070	50,000	10,522.33	4,498	946.55	45,502	9,575.79		
12. Monitoring Studies	071	50,000	2,164.49	4,498	194.71	45,502	1,969.79		
13. Transportation Land Use Connection (TLC)	072	100,000	0.00	8,996	0.00	91,004	0.00		
14. Phase II - Evaluation of the Metrobus Priority Corridor Network	073	33,000	0.00	2,969	0.00	30,031	0.00		
<b>SUBTOTAL</b>		<b>820,200</b>	<b>182,812.95</b>	<b>73,782</b>	<b>16,445.10</b>	<b>746,418</b>	<b>166,367.85</b>		
<b>C. Virginia</b>									
1. Program Development	080	8,000	1,903.27	720	171.21	7,280	1,732.06		
2. Miscellaneous Services	081	18,800	307.40	1,691	27.65	17,109	279.75		
3. NVA. HOV Facilities Monitoring & Data Collection	082	315,000	145,081.66	28,336	13,050.95	286,664	132,030.71		
4. High Occupancy / Toll (Hot) Lane Analysis I-95 / 395 Corridor	083	50,000	0.00	4,498	0.00	45,502	0.00		
5. Travel Forecast Model Refinements	084	55,000	0.00	4,948	0.00	50,052	0.00		
6. Data Mine State of the Commute Survey	085	50,000	0.00	4,498	0.00	45,502	0.00		
7. Phase II - Evaluation of the Metrobus Priority Corridor Network	086	33,000	0.00	2,969	0.00	30,031	0.00		
<b>SUBTOTAL</b>		<b>529,800</b>	<b>147,292.32</b>	<b>47,659</b>	<b>13,249.81</b>	<b>482,141</b>	<b>134,042.51</b>		
<b>D. WMATA</b>									
1. Program Development	100	10,000	1,844.42	10,000	1,844.42	0	0.00		
2. Miscellaneous Services	101	24,099	8,992.17	24,099	8,992.17	0	0.00		
3. Phase II - Evaluation of the Metrobus Priority Corridor Network	102	100,000	100,000.00	100,000	100,000.00	0	0.00		
4. Analyze Bus Passenger Survey Trip Origins & Destinations	103	40,000	0.00	40,000	0.00	0	0.00		
5. Collection of Bus Passenger Counts	104	28,000	0.00	28,000	0.00	0	0.00		
<b>SUBTOTAL</b>		<b>202,099</b>	<b>110,836.59</b>	<b>202,099</b>	<b>110,836.59</b>	<b>0</b>	<b>0.00</b>		
<b>GRAND TOTAL</b>		<b>1,974,149</b>	<b>540,274.35</b>	<b>361,505</b>	<b>149,467.44</b>	<b>1,612,644</b>	<b>390,806.91</b>		