

FY 2020



National Capital Region
Transportation Planning Board

Work Program Progress Report

December 2019

FY 2020

METROPOLITAN WASHINGTON COUNCIL OF GOVERNMENTS

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The TPB approved its FY 2020 Unified Planning Work Program (UPWP) in March 2019. The TPB Work Program Progress Report provides a short summary of each activity for the month December. In addition, this report concludes with status updates reflecting timelines for all ongoing program plans and projects. Please reference the 2020 UPWP for details concerning the approved budget, and work description for each task. The following graphic identifies all the activities in the UPWP.

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Task 1	BUDGET	Billed this month	% Funds Expended	UPWP Page
LONG RANGE TRANSPORTATION PLANNING	\$1,002,493	\$69,102	33%	29

1. LONG-RANGE TRANSPORTATION PLANNING

1.1 Long-Range Transportation Plan

Staff that manages long-range plan activities continued refining an approach, a schedule, an outline, and a workplan for the next quadrennial plan update that is expected to be approved in 2022. Staff continued coordinating with other DTP staff to conceptualize planning activities that will inform the next long-range plan. Staff continued to advance potential activities to increase the robustness of TPB’s evaluation of federal performance factors such as resiliency and of other impacts on the transportation system such as new transportation technologies. Staff continued coordinating with the public involvement team to develop a coordinated outreach approach for the next plan. Staff engaged others within the DTP to identify and discuss potential performance measures that could support a new performance analysis.

Staff also continued to coordinate the implementation of activities related to the aspirational initiatives in Visualize 2045. Staff continued to schedule and conduct site visits to engage with the TPB member local governments and independent transit agencies to encourage and support them in promoting projects, programs and policies that advance the Aspirational Initiatives. By the end of December, staff had met with more than fifty percent of the TPB member jurisdictions. Staff developed packages for each December meeting including printed materials to be shared with the members during site visits, including Visualize 2045 Aspirational Initiatives brochures, TPB Policy Framework summaries, MPO 101 handouts and agendas. Staff also continued to share a summary memorandum for each jurisdiction of the Visualize 2045 geographically-based comments and created online folders to shared GIS files and digital copies of these memorandums. Staff also developed for internal staff use a series of profile packets that includes information such as latest demographic and employment information, and local planning documents. These packets are for review by the staff that are conducting these visits.

1.2 Federal Compliance

Staff coordinated with Stafford County, the Fredericksburg MPO, and FHWA to work on fulfilling the federally-recommended action to update the 2004 TPB/FAMPO MOU.

1.3 Policy Board-Directed Activities

Staff also continued working on follow-up to TPB Resolution R10-2019 which directed staff to conduct activities related to the implementation of three of the aspirational initiatives:

- Improve walk and bike access to transit – Staff continued to refine a network analysis to identify walksheds around high-capacity transit stations. Staff have shared with various committees the online ‘walksheds analysis’ tool that can be used by anyone in the region. Staff is now preparing to conduct outreach to technical staff at the local jurisdictions.
- Complete the National Capital Regional Trail Network – Staff continued to implement a work program for expanding the regional trail network to cover the entire TPB region, as a network. The draft final network is prepared and will be presented in January to the Bicycle and Pedestrian subcommittee.
- Provide more telecommuting and other options for commuting – Commuter Connections Program continued to make available to the public the Incentrip app that launched on August 28. Staff also conducted other TDM related activities.

COG staff (who are not explicitly TPB staff) worked on activities to address another of the seven initiatives – “Bring jobs and housing closer together.” The Housing Initiative has been underway to identify how to work together as a region to build 100,000 more housing units over the next decade in the region’s Activity Centers. Resolution R10-2019 also encouraged regional coordination activities, led by TPB partners, to promote implementation of the initiatives “Expand bus rapid transit (BRT) regionwide,” and “Expand the express highway network.” COG staff made recommendations to the COG board regarding three regional housing targets. In September, the COG Board voted unanimously to endorse the three housing targets. Based on recent work, COG and TPB have been advancing a discussion on Transit-Oriented Communities.

Task 2	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRANSPORTATION IMPROVEMENT PROGRAM	\$433,982	\$31,923	42%	31

2. TRANSPORTATION IMPROVEMENT PROGRAM

2.1 Transportation Improvement Program (TIP)

At its meeting on December 6, the TPB Steering Committee approved one resolution to amend the FY 2019-2024 TIP to include HPP and local funding for the Rockville Intermodal Access Project: Baltimore Road Improvements, as requested by the City of Rockville Department of Public Works.

TPB staff processed administrative modifications for nine projects as requested by DDOT.

The Steering Committee also considered and approved a TPB staff recommendation to change the date of the Public Forum on the Development of the FY 2021-2024 TIP from January 9 to January 16, 2020 in order to coincide with the TPB Citizens Advisory Committee which had been rescheduled due to the New Year’s holiday.

TPB staff worked with member agencies in advance of the December 20 deadline for funding data inputs for the FY 2021 – 2024 TIP. Staff began development of the TIP document including the introduction, a revised PBPP section and new funding tables for Fiscal Years 2021 – 2024.

2.2 TIP Database support

A working group of TPB staff and member agency users continued work with EcoInteractive staff to finalize the data import from the iTIP database and the DOT’s systems into the Project InfoTrak system. EcoInteractive and TPB staff went through a battery of rules and conditions to determine how the system would handle certain events and inputs. EcoInteractive staff provided a preliminary demonstration of how the new application would work for data entry for TIP updates and amendments.

Task 3	BUDGET	Billed this month	% Funds Expended	UPWP Page
PLANNING ELEMENTS	\$2,850,810	\$200,956	38%	33

3. PLANNING ELEMENTS

3.1 Performance-Based Planning

Staff conducted a review of options for the incorporation of performance-based planning elements in the Project Info Track database.

Staff assisted in the presentation of briefings on the region’s highway safety targets for presentation to the TPB and the TPB Technical Committee in December. Staff also participated in a Regional Safety Study meeting.

Staff collected data for regional Transit Asset Management targets to be set in 2020, following up with transit agencies for their individual 2020 targets and 2019 performance data. A presentation and report were drafted for TAM briefings in January.

3.2 Congestion Management Process

The December 19 quarterly meeting of the Vehicle Probe Data Users Group (VPDUG) was organized and conducted, discussing potential application of Google-based travel time data in transportation planning analyses; challenges posed by frequent changes to network geography definitions; and travel time and data intelligence technology.

Congestion Management Process (CMP) data compilation and analysis for the 2020 CMP Technical Report, and for upcoming Quarterly Reports, continued.

Staff also participated in the VDOT probe data vendors presentation day, December 9 at the Virginia Transportation Research Council in Charlottesville.

3.3 Systems Performance, Operations, and Technology Planning

The December 5 joint meeting of the Systems Performance, Operations, and Technology Subcommittee (SPOTS) and the Traffic Signals Subcommittee was organized and conducted, discussing traffic signal design and operations strategies for non-motorized users; the staff congestion analysis of the vicinity of the 2019 Metrorail Blue and Yellow Line stations closure; and jurisdictional updates.

Planning for FY2020 TPB forums on connected and autonomous vehicles (CAV) continued.

Staff also participated in the following external events or activities in conjunction with SPOT planning:

- MDOT-SHA CAV Working Group, December 2 in Hanover
- Northern Virginia Transportation Authority Technology Committee, December 4 in Fairfax.

3.4 Transportation Emergency Preparedness Planning

The regularly scheduled December 11 meeting of the Transportation Emergency Preparedness Committee (R-ESF 1) was organized and conducted by conference call, discussing current regional transportation emergency preparedness issues.

Staff continued to provide technical advice to ongoing COG stakeholder outreach following the November 2018 completion of the Traffic Incident Management Enhancement (TIME) Task Force, Initiative, and recommendations report.

3.5 Transportation Safety Planning

The regularly scheduled December 10, 2019 meeting of the Transportation Safety Subcommittee was organized and conducted, discussing a review of findings of an ongoing MDOT in-depth investigation of fatal pedestrian crashes in Maryland. The meeting also featured a detailed update on the ongoing Analysis of Regional Roadway Safety Outcomes study by TPB and consultant staff.

Consultant staff work continued on the Analysis of the Regional Roadway Safety Outcomes study, including network screening and crash data analysis.

Staff participated in the Vision Zero Prince George's Action Plan Work Group meeting on December 17.

3.6 Bicycle and Pedestrian Planning

On December 9 the TPB hosted its fourth in a series of regional workshops on dockless electric scooter and bicycle sharing. Representatives from the District Department of Transportation, Montgomery County, Arlington, Alexandria, and Baltimore City presented on their pilot programs, to an audience of over sixty planners, consultants, public officials, and members of the general public. The Chair of the TPB Access for All (AFA) Committee presented that committee's recommendations on e-scooters; additional AFA Committee members also participated in the workshop. Overall, the workshop enabled agencies tasked with regulating these new modes of transportation to share lessons from pilot programs, and discuss their plans going forward.

Work continued on the Visualize 2045 Aspirational Initiative "Expand the National Capital Regional Trail," with completion anticipated in February 2020.

Staff attended or participated in the following December 2019 events that support current and future Bicycle and Pedestrian Planning efforts:

- Trail to the Van Dorn Metrorail Station project kickoff meeting, December 3 in Fairfax
- Capital Trails Coalition Steering Committee meeting, December 10 by conference call
- Vision Zero Prince George's Action Plan Workgroup, December 17 by conference call
- New Design Roadside Path Phase 1 kickoff meeting, December 19 in Frederick.

3.7 Regional Public Transportation Planning

The Regional Public Transportation Subcommittee did not meet in December. Staff coordinated with the incoming chair on the schedule and topics for 2020 meetings.

Staff coordinated a presentation by the WMATA Bus Transformation Project to the TPB and followed up on members' questions. Staff also attended the monthly WMATA JCC meeting.

3.8 Freight Planning

Staff participated in the MDOT SHA Transportation Systems Management and Operations Freight Movement Technology Solutions Workshop, December 16 in Hanover.

Staff coordinated with the TPB Freight Subcommittee Chair to develop agenda items and speaker ideas for CY 2020 Freight Subcommittee meetings.

Staff attended (with the Freight Subcommittee Chair) the BMC Freight Movement Task Force meeting on December 19.

Staff continued development of ideas and themes for the Regional Curbside Management Forum.

3.9 Metropolitan Area Transportation Operations Coordination Program Planning

The Metropolitan Area Transportation Operations Coordination (MATOC) Program is an operational partnership of the region's major transportation agencies, funded outside the UPWP, but with certain planning support activities provided by TPB staff under this task.

The regularly scheduled December 13 meeting of the MATOC Steering Committee was organized and conducted, continuing discussion of communications, coordination, and Traffic Incident Management topics.

Task 4	BUDGET	Billed this month	% Funds Expended	UPWP Page
PUBLIC PARTICIPATION	\$1,013,150	\$79,651	36%	39

4. PUBLIC PARTICIPATION

4.1 Public Participation and Outreach

The Citizens Advisory Committee (CAC) met on December 12. At the meeting, the committee learned about the TPB's planning data and research program and received two presentations covering recent surveys conducted by TPB staff. The committee also continued its discussion about transportation safety.

Staff continued work on the update of the TPB's Public Participation Plan. The update process will take place throughout the next several months. Board approval is expected in the spring of 2020.

Staff planned for the public forums on the Transportation Improvement Program (TIP), which is scheduled for January 16. The forum will include an open house and presentations on the forthcoming FY 2021-2024 TIP.

Staff planned outreach for a peer exchange forum for the Transportation Land-Use Connections (TLC) Program, which will take place on January 13.

Staff continued preliminary planning for public engagement that will be part of the next update of the long-range plan, which is scheduled for approval in 2022.

Staff conducted follow-up activities for the recent session of the TPB's Community Leadership Institute, which was held in October and November. The next session of the CLI is tentatively scheduled for March.

4.2 Communications

The TPB News, the TPB's online newsletter, featured stories on the items related to the TPB agenda in December.

- *TPB's roadway safety targets, explained*
December 10, 2019
- *Find out which projects are schedule for funding in the next few years at the TPB's TIP Forum*
December 10, 2019
- *Transportation Planning Board Elects City of Frederick a\Alderman Kelly Russell as 2020 Chair*
December 18, 2019

Throughout the period, TPB staff maintained an active presence on social media.

Staff updated pages on the COG website related to transportation.

Task 5	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRAVEL FORECASTING	\$3,140,203	\$241,657	33%	41

5. TRAVEL FORECASTING

5.1 Network Development

Network development staff finished coding the year-2014 highway and transit networks for the air quality conformity analysis of the 2020 update to the Long-Range Transportation Plan, Visualize 2045, and forwarded the files to the model applications staff for running the travel demand model. This work included the update of the GIS network database to reflect the highway and transit projects listed in the air quality conformity inputs table for each respective network year. Network quality control and quality assurance (QC/QA) included the comparison of each set of network files to the files from the same analysis years from Visualize 2045, as well as the previous year’s network files from this analysis.

Staff reviewed the 2040 and 2045 travel demand results for reasonableness, comparing changes in travel demand results to network and land activity changes.

Network development staff finalized the air quality conformity inputs table, adding new project IDs and other information that had been defined during the network coding process. This table, along with the final network geodatabase, was provided to the GIS team for update of the network layers/maps that are provided for members and the public.

Staff worked on the network documentation report, including developing peak & Off-peak Metrorail, commuter rail, and BRT line summaries for each analysis year.

Staff finished a memo, dated December 11, 2019, that documents recent work updating station attributes in the station file.

TPB staff recently conducted a survey of large Metropolitan Planning Organizations (MPOs) to determine the techniques used for managing and editing transportation networks that are used in the regional travel model. In December, staff finished a draft memo, dated December 24, 2019, that was shared with internal staff. Prior to that, staff had obtained permission from the surveyed MPOs to include, in the memo, contact information and detailed answers to the survey questions.

Staff worked on updating Chapter 4 of the Network Development documentation.

Recently, staff had noticed a bug in COGTools that resulted in occasional duplication of the primary key (EdgeID) in the link table, which could result in duplicate records. Staff continued working on a fix to this issue.

5.2 Model Development, and Support

The Travel Forecasting Subcommittee (TFS) meets in odd-numbered months, so it will next meet in January. Nonetheless, staff prepared meeting highlights from the November 15 meeting.

Production-use, travel demand forecasting model: Generation-2/Ver. 2.3

The Ver. 2.3 Travel Model (specifically Ver. 2.3.78) is being used in the air quality conformity analysis. It is expected that the results of the air quality conformity analysis will be presented to the TPB in February, with possible adoption in March 2020, at which point the Ver. 2.3.78 Model would become the adopted, production-use model.

Developmental, travel demand forecasting model: Generation-2/Ver. 2.3 and Ver. 2.4

Staff finalized three memos regarding a revised regional model that incorporated improved trip distribution procedures for external-to-internal and internal-to-external travel. One memo was dated December 4 and the other two were dated December 12. Additionally, staff finished a memo, dated December 18, that documents the recent calibration of the Ver. 2.3 Model. Staff performed the 2014 highway and transit validation of the Ver. 2.3.84 Model. Staff set up and executed a range of sensitivity tests for the Ver. 2.3.84 Model. Staff explored additional model changes in a developmental Ver. 2.3.85 Model.

Developmental, travel demand forecasting model: Generation-3

Regarding the consultant-assisted project to develop the next-generation travel demand forecasting model, known as the Gen3 Model, in December, staff did the following:

- Prepared for and participated in MWCOG Gen3 Model kick-off meeting with the consultant (RSG) and its disadvantaged business enterprise (DBE) subcontractor, Baseline Mobility Group (BMG).
- Collaborated with RSG to develop Task Order 1 of the contract.
- Explored and set up Asana, a project management tool for the Gen3 Model development project.
- Set up and tested a Microsoft OneDrive account as the data portal for the Gen3 Model development project.
- Attended a training that will allow staff to assist in the effort to perform data cleaning on the 2017/2018 Regional Travel Survey data.
- Conducted a series of test model runs on using an activity-based model (ABM) package called ActivitySim, which is one of the options for the Gen3 Model.
- Worked on developing a list of recent regional transit on-board surveys to inform the Gen3 Model development program.
- Investigated the mechanism of a population synthesizer (Popgen2) that is a critical component to an ABM.

Other activities

Data requests and model support: Staff serviced eight data requests in December, including one for the Maryland-National Capital Park and Planning Commission (M-NCPPC), which requested model inputs for the year 2015.

Staff participated in and presented at the TPB Vehicle Probe Data Users Group (VPDUG) meeting.

Task 6		Billed this month	% Funds Expended	UPWP Page
MOBILE EMISSIONS PLANNING	\$1,978,852	\$137,865	36%	45

6. MOBILE EMISSIONS PLANNING

6.1 Air Quality Conformity

Upon completion of the network development process, Department of Transportation Planning (DTP) staff conducted and reviewed travel demand and emissions modeling processes for analysis for the year 2040. DTP staff also developed transportation networks for the analysis year 2045.

DTP staff transmitted conformity MOVES files for the 2025 and 2030 analysis years to the Department of Environmental Programs (DEP) staff for review.

Staff coordinated with the Virginia Department of Rail and Public Transportation (DRPT) and the Virginia Department of Transportation (VDOT) on how to appropriately reflect the status of the Virginia Railway Express (VRE) Long Bridge and 3rd and 4th track projects in the air quality conformity analysis.

Staff began compiling the full and summary air quality conformity reports. This work includes development of graphs and charts to document the inputs and outputs of the conformity analysis.

In support of the activities related to assessment of long-range transportation plan performance, DTP staff briefed the Vehicle Probe Data Users Group on potential applications of Google-based travel time data in travel shed and regional accessibility analyses.

6.2 Mobile Emissions Analysis

DTP staff continued working closely with COG's DEP staff on development of the base-year emissions inventory submittal to EPA as part of the 2015 ozone National Ambient Air Quality Standards (NAAQS) requirements. On the December Emissions Inventory Subcommittee call, DEP staff reviewed a draft 2017 Base-Year Emissions Inventory report. DTP staff completed the documentation that will be included as an appendix (Appendix D) in the 2015 Ozone NAAQS base-year inventory State Implementation Plan (SIP), which includes inventories of Volatile Organic Compounds (VOCs), Nitrogen Oxides (NOx), and Carbon Monoxide (CO) for all sources (area, point, non-road, and on-road).

DTP Staff participated in the Washington Air Quality Committee Technical Advisory Committee (MWAQC-TAC) call and MWAQC meeting, both of which largely focused on the MWAQC Strategic Planning Assessment Report. Following extensive discussion among members, MWAQC approved the Strategic Planning Assessment Report (item #5).

DTP staff continued to work with DEP staff, member jurisdictions, and state air agencies to facilitate various aspects of air quality and greenhouse gas (GHG) planning activities. DTP staff provided requested MOVES model input data pertaining to vehicle population to the District of Columbia Department of Energy and Environment (DOEE) in support of the District's National Emissions Inventory activities.

DTP management and staff, along with DEP staff and COG's executive office representatives, coordinated activities with our members, as well as with other regional councils (COGs) and metropolitan planning organizations (MPOs) regarding the Transportation-Climate Initiative (TCI). Specifically, DTP staff continued with preparations for hosting the next convening of MPOs and COGs, scheduled to take place at the Metropolitan Washington Council of Governments on January 16, 2020. DTP staff informed both the TPB Technical Committee (Other Business) and the TPB (Director's Report) of the convening. Staff also studied and analyzed the newly released Draft Memorandum of Understanding of the Transportation and Climate Initiative (released on December 17).

Task 7	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRAVEL MONITORING AND DATA PROGRAMS	\$2,458,858	\$140,730	31%	47

7. TRAVEL MONITORING AND DATA PROGRAMS

7.1 Regional Travel Survey

For the December 2019 reporting period, the key tasks were focused on RTS data processing. COG/TPB staff convened and participated in a training session and began editing the trip files in the RTS.

COG/TPB staff presented findings from a new set of questions from the recruitment questionnaire focusing on the use of alternative travel options that reduce single-occupancy vehicle (SOV) travel at the December meeting of the TPB Citizens Advisory Committee.

COG/TPB staff also met with RSG to discuss the high-level outline for the report on the 7-Day Panel Survey using a GPS smartphone app that was conducted in October and November 2019.

7.2 Traffic Analysis Studies, and Research

Staff organized a meeting with the Maryland Department of Planning to discuss their new Transit Station Area Profile Tool. The meeting included an overview of the tool, a discussion of potential additional data sources, and brainstorm about potential TPB Committees that may be interested in learning about the tool. Over a dozen staff members attended the meeting.

Staff continued to communicate with WMATA about the Trace Model as well as the Metrobus 2018 Survey. Staff transmitted language describing how the Metrobus 2018 Survey will be used. For the Trace Model, staff obtained information about parameters and aggregation levels that would need to be defined to submit the request. Staff is coordinating internally.

Staff collaborated with the Travel Forecasting and Emissions Analysis Team about a short-term and longer-term need to maintain a list of regional surveys. Staff also shared insight about the range of methodologies used by different states to report rural minor collector and local vehicle miles traveled.

Staff reviewed and provided input on documentation of the 2019 Air Passenger Survey procedures.

Staff coordinated with the Systems Performance Planning Team about updates to the travel monitoring section of the Congestion Monitoring and Performance Report.

Staff supported an interview with WAMU about commuting patterns by preparing tabulations for travel time to work as well as county to county flows using data from the American Community Survey and Census Transportation Planning Product.

Big Data in Regional Travel, and Mobility Analyses

During this time period, the consultant (Kimley Horn) monitored responses and reminded MPOs, transit agencies, state DOTs, and local governments to complete the survey on what and how Big Data is being used.

7.3 Regional Transportation Data Clearinghouse

Staff responded to an inquiry from a consultant (Sabra & Associates) regarding the available years for traffic count data in the RTDC. Staff prepared a response for the Travel Forecasting and Emissions Analysis Program Manager and provided links to more recent regional traffic count datasets.

Staff worked with fellow DTP staff to close a request for data from a consultant regarding roadway network data. Staff provided year 2019 load-link highway network and a technical memorandum detailing the requested files.

Staff explained to Travel Forecasting team staff the method used to estimate VMT at the sub-county level. This method will be used to estimate VMT for the portion of Spotsylvania County within the TPB Modeled Area and the portion of Fauquier County within the TPB Planning Area once the 2018 HPMS data are available.

Staff finalized the 2010 to 2017 traffic counts by link feature class for inclusion in the RTDC. This included assigning directional volumes to COG/TPB network links, performing QA/QC, and updating the metadata. During the QA/QC process, several links were identified that will require review with the Travel Forecasting team, this review is upcoming.

Staff added the 2017 Traffic Counts by Link dataset to the RTDC. Staff also updated the 2016 and 2017 hourly traffic count tables.

Staff received data from the Northern Virginia Transportation Commission (NVTC) on FY 2019 Rail Ridership for Northern Virginia.

Staff began to research and download state-wide datasets for the National Bridge Inventory (NBI) to create new datasets for the RTDC. Staff is comparing data from various sources to develop a workplan on how to leverage the most appropriate data source for UPWP work program activities.

Staff refreshed the ArcGIS Online content for recently updated datasets to the RTDC.

7.4 GIS Data, and Analysis

Staff hosted a meeting on December 12 with representatives from the Maryland Department of Planning (MDP) on their MD Transit Station Profile Tool.

Staff worked with the committee leadership to begin to plan the January 2020 GIS Committee/GDX Working Group meeting.

Staff completed the draft network of bicycle and pedestrian facilities used to expand the National Capital Trail. Staff is working on an updated draft web map to present to the Bicycle and Pedestrian Subcommittee meeting in January.

Staff attended the kickoff meeting for COG’s Gen3 Travel Model that was held on December 3.

Staff met with the Planning Data and Research Program Director to discuss DTP’s communication plan.

Staff assisted the Planning Data and Research Program Director and staff in the Department of Community Planning Services (DCPS) to develop a map of High Capacity Transit (HCT) stations to be used in a memorandum on Transit Oriented Communities.

Staff began to work on a project assisting Commuter Connections (CC) with re-creating and configuring a web map application originally developed by CC’s consultant. Staff met with CC and consultant staff and produced a draft web map application. The project is ongoing.

Staff began work on a map requested by COG’s Executive Director on behalf of the Northern Virginia Economic Development Alliance. Staff met with the Planning Data and Research Program Manager to discuss specifications for the map, and then produced several examples for review.

Staff responded to a question from the Office of Communications (OC) regarding a map of the National Capital Trail to use in a presentation by COG’s Executive Director. Staff advised OC on what type of map would be most appropriate for the presentation.

Staff resolved an issue reported by staff from the Department of Environmental Programs (DEP) regarding data access with spatial datasets in enterprise (SQL Server) databases.

Staff performed software updates for ArcGIS on user desktop workstations, as requested.

Task 8	BUDGET	Billed this month	% Funds Expended	UPWP Page
SCENARIO PLANNING AND SOCIOECONOMIC FORECASTING	\$1,116,639	\$66,129	37%	51

8. SCENARIO PLANNING AND SOCIOECONOMIC FORECASTING

8.1 Scenario Planning

No activity.

8.2 Socioeconomic Forecasting

As with prior months, most of the activities relating to Forecasting during December continued to focus on efforts to addressing the regional housing initiative and targets.

Since the adoption by the COG Board of the Housing Targets, Department of Community Planning and Services (DCPS) staff continues to brief numerous member jurisdictions and partner / stakeholder organizations on the methodology and COG Board resolution/recommendations, including:

- COG and DCPS hosted the December 3 meeting of the Housing Leaders Group of Greater Washington focused on plans to develop a regional Housing Communications initiative, and a discussion of Governance for HLG and efforts to expand membership.
- DCPS Director was a panelist to discuss COG’s Housing Targets at the American Public Transportation Association (APTA) Legislative Committee Meeting on Public Transportation and Affordable Housing on December 5th in the District. The purpose of the panel was to assist APTA members with developing feedback on the proposed legislative ideas, including:
 - Codify and increase the federal share for Transit-Oriented Development (TOD) Planning Grants;
 - Establish a specific federal share for Transportation Infrastructure Finance and Innovation Act (TIFIA) loans and extend TOD eligibility for Railroad Rehabilitation and Improvement Financing (RRIF) loans;
 - Provide transit agencies more flexibility in establishing affordable housing as part of Joint Development projects; and
 - Adjust the Capital Investment Grants (CIG) rating system, allow for expedited review, and eliminate the total federal contribution limitation for transit projects that incorporate affordable housing elements.

At its December meeting, the Cooperative Forecasting Subcommittee was briefed on the Maryland Department of Planning’s (MDP) “Dashboard for Estimating 2020 Census Undercount Areas” by Alfred Sundara. In addition, John Kent presented the 2019 report on Multi-family housing compiled from CoStar data, and Jaleel Reed presented the “2019 Updated Employment Guidance” memo for developing base-year forecast estimates.

To assist with development of their baseline population estimates, DCPS staff continued an analysis of IRS county-to-county migration data. A paper or short report on the findings is being developed.

DCPS staff also produced the monthly REMS report for October / November data.

COG and TPB staff conducted several internal meetings to identify how existing tools and resources developed by both COG and TPB could be leveraged to further analyze the relationship between land use and transportation and their relationship to promoting development of transit-oriented communities in the region.

Task 9	BUDGET	Billed this month	% Funds Expended	UPWP Page
MOBILITY AND ENHANCEMENT PROGRAMS	\$649,946	\$32,537	26%	55

9. MOBILITY, and ENHANCEMENT PROGRAMS

9.1 Enhanced Mobility Grant Program

Staff worked with AFA Chair Kacy Kostiuk to finalize the memo outlining Access for All Advisory Committee (AFA) concerns about how dockless vehicles impact older adults, people with disabilities, and people with low income. Staff attended and AFA Chair Kacy Kostiuk presented the memo at COG/TPB’s Dockless Vehicle Workshop on December 9.

The Selection Committee for the 2019 Enhanced Mobility Solicitation met on December 5 to develop recommendations for funding. Additional questions were sent to one applicant, and consensus was reached on December 17.

Staff presented on the solicitation process and the applications received at the December 6 Tech Committee and December 18 TPB meetings and began preparations for presenting committee recommendations for funding to the TPB on January 22, 2020, including the required TIP update.

Planning for AFA activities in 2020 began, including preparations for the January 14 meeting.

9.2 Transportation Alternatives Set-Aside Program

TPB staff established a process for reviewing 23 applications from Northern Virginia for the Transportation Alternatives Set-Aside Program. Staff continued preliminary analysis to determine the degree to which the proposed projects serve regional objectives. Staff will convene a selection panel in January to review the applications and develop recommendations for funding. The TPB is tentatively scheduled to approve projects in February.

9.3 Transportation Land-Use Connections Program

The 13 TLC projects for FY 2020 were underway as described below:

- DC (Florida and New York Avenues): Fieldwork and data collection were underway.
- MD (City of Frederick): Data collection and project management are ongoing.
- MD (City of College Park): A kick-off meeting was held on December 4, identifying additional data needs and collection methods. A progress meeting was scheduled for January.
- MD (Frederick County): A pre-kickoff conference call and in-person kick-off meeting were held.
- MD (City of Gaithersburg): A kick-off meeting along with site visit occurred on December 3.
- MD (City of Greenbelt): A project kick-off meeting was scheduled for January 8.
- MD (Montgomery County): Consultant staff are conducting preliminary research into the launch and marketing of the Ride On Flex transit service.
- MD (City of Takoma Park): Data collection and inventory were underway. The first deliverable is expected for January.
- VA (Arlington County): The consultant and jurisdiction exchanged preliminary data. A kick-off meeting was tentatively scheduled for early January.
- VA (Fairfax County): A kick-off meeting was held on December 3.
- VA (City of Falls Church): Data collection still underway.
- VA (City of Manassas): The consultant was in the process of confirming site conditions and generating a CADD base map of the study area.
- VA (Prince William County): A kick-off meeting was scheduled for January 14. The county is sending along available data which consultant will turn into study area maps for meeting.

Staff developed and edited solicitation materials for the FY 2021 round of TLC projects. The application period will be open from January 6 to March 9.

Staff continued planning a peer exchange event, which will be held on January 13.

Staff finalized research on implementation activities resulting from TLC projects from three recent years – FY 2016, FY 2017, and FY 2018.

Task 10	BUDGET	Billed this month	% Funds Expended	UPWP Page
TPB SUPPORT AND MANAGEMENT	\$978,789	\$72,622	38%	57

10. TPB SUPPORT AND MANAGEMENT

10.1 Transportation Planning Board Committee Support and Management and Unified Planning Work Program

The TPB Technical Committee met on December 6, 2019. Agenda items included approval of minutes of the November 2019 Technical Committee meeting, presentations on proposed 2016 - 2020 PBPP Safety Targets, a review of the TLC Program and a review of implementation progress from a sample group of past TLC recipients from (FY16-FY18) , the Bus Transformation Project, a briefing on MATOC, the FTA Section 5310 Enhanced Mobility Program, and DDOT’s Curbside Management efforts.

The Transportation Planning Board met on December 18, 2019. Agenda items included the approval of the minutes of the November 2019 TPB meeting, reports of the TPB Technical Committee, the Citizens Advisory Committee in addition to Steering Committee actions & the report of the Director. Action items included the approval of calendar year 2020 TPB officers, and the approval of resolution R6-2020 - Performance Based Planning and Programming: 2016-2020 Highway Safety Targets. Additionally, presentations were given to the board on Recommended 2016 - 2020 Highway Safety Targets, a Status Report on the 2019 Enhanced Mobility Grant Program, the Bus Transformation Project and The Governor Harry W. Nice/Senator Thomas "Mac" Middleton Bridge Replacement Project: Alternative Selected for Construction.

TPB Support and Management

This task includes activities not attributable to specific tasks in the work program but provides overall support for and management of the TPB and UPWP-related activities.

- Provide administrative arrangements (such as preparation and distribution of meeting materials) and staff support for TPB and its various Committees, Sub-Committees, Task Forces and special TPB work groups meetings.
- Respond to requests from TPB members, federal agencies, Congressional offices, media and others for information or data of a general transportation nature.
- Meet with TPB Board members and participating agency staff to discuss current and emerging regional transportation planning issues.
- Participate in meetings of other agencies whose programs and activities relate to and impact the TPB work program.
- Coordination of TPB Planning Activities with Program Directors and day-to-day management of and allocation of staff and financial resources.
- Monitoring of all work program activities and expenditures.

Staff support was provided for the monthly meetings of the following committees and sub-committees:

- State Technical Working Group (STWG)
- TPB Technical Committee
- TPB Steering Committee
- COG Board Meeting
- Transportation Planning Board (TPB)
- MATOC Steering Committee
- Citizens Advisory Committee (CAC)

Support activities from the administrative staffs included: meeting logistics with meeting rooms and amenities, copying and distribution of meeting materials, email/phone call follow ups. Additionally, staff also worked on monitoring work program activities, providing administrative assistance to senior staff and monitoring and preparing financial reports. Additionally, administrative staff work on monthly financial administration and management activity which includes review and finalization of monthly expense reports for all UPWP activities, development and submission of monthly UPWP invoices and any follow up activity with the funding agencies.

The Staff Director provided overall program management oversight to all the department's activities. Work activities the Director was involved in during the month of October includes:

- Discussions, review and finalization of the agenda topics for the TPB's Technical Committee, State Transportation Working Group (STWG) and Board meetings. This includes meeting with the Program Directors and project staffs to review the progress and briefing materials.
- Participation in the STWG, TPB Technical Committee, TPB Steering Committee, TPB's Citizen's Advisory Committee and the TPB Board meetings.
- Participation in the bi-weekly meetings of the State Safety Oversight/Metro Safety Commission (SSO/MSC) Policy Work Group meetings. This "tri-state" group is working to reconstitute the existing Metro rail safety oversight Committee to comply with the requirement of the FAST Act.
- Metropolitan Washington Air Quality Committee

Other additional activities for the TPB Staff Director for the month of December FY 2020 include:

- Telephone conversations:
 - Call with WAMU Reporter
 - MetroNow Bus Campaign (GWP convened)
 - TPB Nominating Committee (officers for 2020)
 - TPB-FAMPO Agreement (FHWA representative, Stafford Co. staffs)
 - MWAQC Strategic Plan Meeting Summary Document (MDOT, VDEQ)
 - Planning Directors Technical Advisory Committee Chairs – 2020 Activities
- In-persons meetings:
 - CAOs Meeting
 - COG Annual Meeting
 - NVTA - Exec. Director (Monica Backman)
 - Visualize 2045 Site Visit - Prince William County
 - Officers of COG Board RE: 2020 Focus topics

UPWP

The UPWP activities include:

- Supervise the preparation, negotiation, and approval of the annual work program and budget involving the state transportation agencies, the TPB Technical Committee, the Steering Committee and the TPB.
- Preparation of monthly UPWP progress reports for each of the state agencies administering planning funding and prepare all necessary federal grant applications submissions.
- Review of all monthly UPWP invoices going to each of the state agencies administering planning funding.

Task 11	BUDGET	Billed this month	% Funds Expended	UPWP Page
TECHNICAL ASSISTANCE	\$1,573,168	\$19,133	11%	59
District of Columbia	\$288,548	\$15,123	30%	59
Maryland	\$641,082	\$2,355	6%	61
Virginia	\$461,312	\$1,289	9%	64
WMATA	\$182,226	\$367	0%	67

11. TECHNICAL ASSISTANCE

11.1 District of Columbia

Program Development, Data Requests and Miscellaneous Services

Staff attended the monthly State Technical Working Group / Technical Committee / Steering Committee / TPB meeting cycle.

Staff developed a 2017 to 2018 District of Columbia VMT by Functional Classification table in response to a DDOT data request.

Staff developed a one-page summary about the Technical Assistance program.

Traffic Counts and Highway Performance Monitoring System (HPMS) Support

Staff completed the 2018 DDOT Traffic Monitoring System Report Documentation and submitted it to DDOT and FHWA staff.

Staff provided the Excel version of the FTMS summary to DDOT staff, as requested, to help keep better track as DDOT investigates FTMS issues. Staff followed-up with the contractor concerning the status of the CY 2019 short-term counts.

11.2. Maryland

Program Development, Data Requests, and Miscellaneous Services

Staff attended the monthly State Technical Working Group/Technical Committee/Steering Committee/TPB meeting cycle. Staff also developed a one-page summary about the Technical Assistance program.

Staff communicated with MD SHA staff about a potential project focused on forecasting effects on parking and congestion from a potential reduction in MARC service to West Virginia.

Feasibility/Special Studies

Staff attended the following Traffic Relief Plan meetings in the month of December to monitor the project development activities:

- I-495 & I-270 Managed Lanes Study Transit Work Group (NEPA)

Staff provided input to the study team throughout the process. Specifically, in the month of December, in response to one of the questions raised at the study team meeting, staff shared the findings of the TPB’s Bus On Shoulders Study documented in the “Assessment of the Feasibility of Bus On Shoulders (BOS) at Select Locations in the National Capital Region,” report from 2013.

Traffic Relief Plan (TRP) Monorail Feasibility Assessment: In response to a request by MDOT staff, DTP staff finalized a technical memorandum that assessed the *Frederick-Shady Grove Ridership and*

Revenue Study, prepared by Cambridge Systematics on behalf of the High Road Foundation. DTP staff reviewed and evaluated the modeling methodology and assumptions used in the study to model monorail.

Transportation / Land Use Connections Program

As part of the Transportation/Land-Use Connections Program, five technical assistance projects in Maryland were fully or partially funded through the Maryland Technical Assistance Program. See TLC item above for further details about the TLC Program.

MARC-VRE Run Through Analysis

The consultant (Foursquare ITP) finished processing the 2015 MD Travel Demand Model data and began validating results using CTPP data. The consultant also followed up on a request to MDOT for the 2030 and 2040 MD Travel Demand Model data. Staff was referred to the new Manager of Northern Virginia Rail Projects at Virginia Department of Rail and Public Transit who will serve on the TAC for the remainder of the project. Staff continued to participate in bi-weekly status meetings with the consultant and scheduled the fourth technical advisory committee (TAC) meeting.

11.3. Virginia

Program Development, Data Requests, and Miscellaneous Services

Staff attended the monthly State Technical Working Group/Technical Committee/Steering Committee/TPB meeting cycle.

Staff developed a one-page summary about the Technical Assistance program.

Travel Monitoring and Survey

Staff reached-out to the contractor concerning the status of the Fall 2019 non-motorized counts.

MARC-VRE Run Through Analysis

This project is funded by Maryland and Virginia, please see the description under Maryland.

Transportation / Land Use Connections Program

As part of the Transportation/Land-Use Connections Program, three technical assistance projects in Virginia were fully or partially funded under the Virginia Technical Assistance Program. See TLC item above for further details about the TLC Program.

11.4. Regional Transit/Wmata

Program Development

Staff attended the monthly State Technical Working Group/Technical Committee/Steering Committee/TPB meeting cycle.

Staff coordinated with WMATA and requested time on the Regional Public Transportation Subcommittee agenda to discuss and request input on potential projects for the FY2021 Regional Transit Technical Assistance account.

CONTINUOUS AIRPORT SYSTEM PLANNING

Comprehensive Regional Air System Plan Update – Phases 2 and 3

In coordination with the Metropolitan Washington Airports Authority (MWAA), and the Maryland Aviation Administration (MAA), staff reviewed all Regional Air System Plan (RASP) Phase 2 comments provided by COG airport partners and shared an updated version of the Phase 2 document for their review. Staff also continued work on Phase 3.

Process 2019 Air Passenger Survey - Phase 1

During this reporting period, the survey consultant conducted the data entry portion of the survey. In late December COG staff received the data file and began initial analysis, including the logic check and analyzing the survey response rate.

PROGRESS TOWARD REPORTS AND PLANS

2019 State of Public Transportation Report

- Work to begin in December 2019
- Estimated completion June 2020

Congestion Management Technical Report

- Information compilation and report development continued
- A draft report is anticipated by April 2020, finalization by June 2020

Big Data in Regional Travel and Mobility Analyses

- Held study working group project Kickoff meeting
- Consultant launched peer MPO survey for Task 2
- Estimated completion June 2020

VRE-MARC RUN THROUGH SERVICE

- The results of Task 3.1: Identify Travel Sheds was presented to Regional Public Transportation Subcommittee
- Completed three meeting with Technical Advisory Committee
- Consultant completed background research (Task 2)
- Consultant identified travel sheds (Task 3.1)
- Consultant received critical inputs to evaluate travel demand (Task 3.2)
- Estimated completion Spring 2020

Public Participation Plan

- Continued internal discussions on key inputs (e.g., federal regulations, federal certification review, consultant evaluation of TPB public participation, plans of other MPOs)
- Synthesized proposed changes for the new plan
- Prepared for receiving additional input
- Estimated completion: May 2020

Station Access Study

- Synthesized input received in five site visits to review the preliminary staff list with local staff
- Estimated completion: May 2020

Performance Based Planning and Programming

Highway Safety

- Deliver Regional PBPP Safety Targets
- Data compilation and analysis begun September 2019
- Completion anticipated December 2019

Transit Asset Management

- Deliver Regional PBPP Transit Asset Targets
- Data compilation began in November 2019
- Completion anticipated February 2020

Safety Study

- Deliver Regional Safety Study Findings and Recommendations
- Staff reviewed and provided feedback on consultant-provided draft input toward findings and recommendations.
- Completion anticipated February 2020.

System Performance – National Capital Region Freight Plan

- The National Capital Region Freight Plan was approved by the TPB in July 2016
- Traditionally the plan is updated every five years
- The current plan is anticipated to be approved by the TPB in 2021

BRT land use and service standards document

- No action pending WMATA Bus Transformation Project outcome

Bicycle and Pedestrian Plan

- Activity is anticipated subsequent to the Expand the Nation Capital Regional Trail project, in order for information from that effort to be included in the plan update.
- Completion anticipated June 2020.

National Capital Regional Trail

- Work continued following the first draft presented to the Bicycle and Pedestrian Subcommittee in November.
- Completion anticipated February 2020.

Regional Curbside Management Forum

- Work to begin December 2019
- Completion anticipated June 2020

Metropolitan Washington Regional Intelligent Transportation Systems Architecture (MWRITSA)

- No milestones to report for this period
- The most recent MWRITSA full update was posted on the TPB website in July 2019. Minor adjustments and updates are anticipated by June 2020

Coordination Human Services Transportation Plan

- The current Coordinated Plan was adopted by the TPB in December 2018
- The 2019 Enhanced Mobility Solicitation Selection Committee convened in December and developed recommendations for funding. TPB approval of the projects recommended for funding will be sought at the January 22 meeting.
- The next Enhanced Mobility Solicitation will be in Spring/Summer 2021.
- The next update of the Coordinated Plan will occur in 2022

Transportation Improvement Program (TIP)

- The current TIP was approved by the TPB on October 17, 2018 for FY 2019–2024
- Staff is currently in the process of collecting data for the FY 2021-2024 TIP
- The call for projects was announced in May 2019
- Inputs for the TIP are due December 2019
- A public forum will be held on March 12, 2020
- The 2021 – 2024 TIP is anticipated to be approved following a comment period in May 2020

Visualize 2045

- The Long-Range plan was adopted by the TPB on October 17, 2018
- Staff remain engaged in promoting the aspirational element of the plan
- The next update to the plan is anticipated in FY 2022

FY 2020 TRANSPORTATION PLANNING BOARD

COG/TPB BUDGET EXPENDITURE SUMMARY

December 2019

	DC, MD and VA FTA, FHWA and LOCAL BUDGET TOTAL	FUNDS EXPENDED	BILLED THIS MONTH	% FUNDS EXPENDED
1. Long-Range Transportation Planning				
Long - Range Transportation Planning	1,002,493.00	334,966.34	69,102.72	33%
SUBTOTAL	1,002,493.00	334,966.34	69,102.72	33%
2. Transportation Improvement Program				
Transportation Improvement Program	263,982.00	119,310.39	19,506.74	45%
TIP Database Support	170,000.00	62,085.00	12,417.00	37%
SUBTOTAL	433,982.00	181,395.39	31,923.74	42%
3. Planning Elements				
Congestion Management Process	613,020.00	235,615.59	39,749.98	38%
Systems Performance, Ops & Tech Planning	659,650.00	248,922.27	51,728.88	38%
Transportation Emergency Preparedness Planning	124,162.00	63,550.19	12,031.05	51%
Transportation Safety Planning	298,785.00	76,792.02	7,387.58	26%
Bicycle & Pedestrian Planning	141,278.00	77,419.30	14,871.38	55%
Regional Public Transportation Planning	322,516.00	85,543.69	15,449.40	27%
Freight Planning	222,293.00	68,315.35	14,802.52	31%
Metropolitan Area Transportation Operation Coord Program Planning	164,580.00	85,002.00	14,617.94	52%
Performance-Based Planning & Programming	304,526.00	134,924.25	30,317.90	44%
SUBTOTAL	2,850,810.00	1,076,084.66	200,956.63	38%
4. Public Participation				
Public Participation	1,013,150.00	361,018.51	79,651.73	36%
SUBTOTAL	1,013,150.00	361,018.51	79,651.73	36%
5. Travel Forecasting				
Software Support	176,296.00	59,348.54	9,683.41	34%
Network Development	657,578.00	412,067.47	94,548.70	63%
Model Development	2,306,329.00	553,032.62	137,424.82	24%
SUBTOTAL	3,140,203.00	1,024,448.62	241,656.92	33%
6. Mobile Emissions Planning				
Air Quality Conformity	888,388.00	362,179.25	78,554.16	41%
Mobile Emissions Analysis	1,090,464.00	350,877.26	59,310.78	32%
SUBTOTAL	1,978,852.00	713,056.51	137,864.94	36%
7. Travel Monitoring and Data Programs				
Regional Travel Survey	745,208.00	341,657.05	84,973.66	46%
Traffic Analysis & Research	675,464.00	33,985.35	3,148.58	5%
Regional Transportation Data Clearinghouse	455,937.00	126,644.30	16,849.42	28%
GIS Analysis	582,249.00	259,029.93	35,758.17	44%
SUBTOTAL	2,458,858.00	761,316.63	140,729.84	31%
8. Planning Scenarios and Socioeconomic Forecasting				
Socioeconomic Forecasting	761,012.00	401,944.57	66,129.91	53%
Scenario Planning	355,627.00	5,632.49	0.00	2%
SUBTOTAL	1,116,639.00	407,577.05	66,129.91	37%
9. Mobility and Enhancement Programs				
Transportation and Land Use Connections Program	492,958.00	86,337.83	17,185.55	18%
Enhanced Mobility Grant Program	105,634.00	58,111.93	10,359.54	55%
Transportation Alternatives Set-Aside Programs	51,354.00	26,554.42	4,991.75	52%
SUBTOTAL	649,946.00	171,004.18	32,536.85	26%
10. TPB Support and Management				
TPB Support and Management	978,789.00	374,531.75	72,621.97	38%
SUBTOTAL	978,789.00	374,531.75	72,621.97	38%
SUBTOTAL CORE PROGRAM ITEMS 1-10	15,623,722.00	5,405,399.66	1,073,175.25	35%
TECHNICAL ASSISTANCE				
District of Columbia Technical Assistance	288,548.00	86,930.97	15,122.67	30%
Maryland Technical Assistance	641,082.00	36,147.60	2,355.19	6%
Virginia Technical Assistance	461,312.00	42,551.73	1,288.54	9%
WMATA Technical Assistance	182,226.00	550.43	366.96	0%
Technical Assistance Program Total	1,573,168.00	166,180.73	19,133.35	11%
TPB GRAND TOTAL	17,196,890.00	5,571,580.39	1,092,308.60	32%

**FY 2020 TRANSPORTATION PLANNING BOARD
FINANCIAL STATUS OF TECHNICAL ASSISTANCE**

December 2019
SUPPLEMENT 1

COST CODES	TOTAL		FTA/STA/LOC		PL FUNDS/LOC	
	AUTHORIZED BUDGET	TOTAL EXPENDITURES	AUTHORIZED BUDGET	FTA EXPENDITURES	AUTHORIZED BUDGET	FHWA EXPENDITURES
A. District of Columbia Technical Assistance						
A.1 Program Development & Misc	10,000.00	3,055.76	1,422.89	434.80	8,577.11	2,620.95
A.2 Traffic Counts & HPMS Support	235,000.00	83,875.21	33,437.99	11,934.55	201,562.01	71,940.66
A.3 Other Tasks	43,548.00	0.00	6,196.42	0.00	37,351.58	0.00
A SUBTOTAL	288,548.00	86,930.97	41,057.30	12,369.35	247,490.70	74,561.62
B. Maryland Technical Assistance						
B.1 Program Development & Misc	15,000.00	2,738.57	2,134.34	389.67	12,865.66	2,348.90
B.2 Planning Studies	100,000.00	20,022.17	14,228.93	2,848.94	85,771.07	17,173.23
B.3 Feasibility/Special Studies	50,000.00	366.96	7,114.47	52.21	42,885.53	314.75
B.4 Transportation Performance Measures	100,000.00	0.00	14,228.93	0.00	85,771.07	0.00
B.5 Training, Misc and Tech Support	20,000.00	0.00	2,845.79	0.00	17,154.21	0.00
B.6 Transportation/Land Use Connection Program	260,000.00	0.00	36,995.23	0.00	223,004.77	0.00
B.7 Other Tasks	61,082.00	0.00	8,691.32	0.00	52,390.68	0.00
B.8 MARC - VRE Runthrough - MD	35,000.00	13,019.89	4,980.13	1,852.59	30,019.87	11,167.30
B SUBTOTAL	641,082.00	36,147.60	91,219.13	5,143.42	549,862.87	31,004.18
C. Virginia Technical Assistance						
C.1 Program Development & Misc.	15,000.00	1,957.87	2,134.34	278.58	12,865.66	1,679.28
C.2 Travel Monitoring	148,000.00	27,573.97	21,058.82	3,923.48	126,941.18	23,650.49
C.3 Travel Demand Modeling	38,000.00	0.00	5,406.99	0.00	32,593.01	0.00
C.4 Sub-regional Planning Studies	58,000.00	0.00	8,252.78	0.00	49,747.22	0.00
C.5 Other Tasks	7,312.00	0.00	1,040.42	0.00	6,271.58	0.00
C.6 Transportation Land Use Connections	160,000.00	0.00	22,766.29	0.00	137,233.71	0.00
C.7 MARC - VRE Runthrough - VA	35,000.00	13,019.89	4,980.13	1,852.59	30,019.87	11,167.30
C SUBTOTAL	461,312.00	42,551.73	65,639.78	6,054.66	395,672.22	36,497.07
D. WMATA Technical Assistance						
D.1 Program Development & Misc	5,000.00	550.43	5,000.00	550.43	0.00	0.00
D.2 Other Tasks	177,226.00	0.00	177,226.00	0.00	0.00	0.00
D SUBTOTAL	182,226.00	550.43	182,226.00	550.43	0.00	0.00
GRAND TOTAL	1,573,168.00	166,180.73	380,142.21	24,117.86	1,193,025.79	142,062.87