

PLANNING WORK PROGRAM

SP 0011 (001)
JUNE 16, 2010 – JUNE 15, 2011



IN COOPERATION WITH
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION



U.S. Department
of Transportation
**Federal Highway
Administration**

Kentucky Division Office
José M. Sepúlveda, Division Administrator

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June 10, 2010

Mr. Michael W. Hancock, PE
Acting Secretary
Kentucky Transportation Cabinet
200 Mero Street, Room 613
Frankfort, Kentucky 40622

Dear Mr. Hancock:

We have reviewed the June 2, 2010, submittal of the following document:

**Planning Work Program
SP 0011 (001)
June 16, 2010 - June 15, 2011
(20011 SPR Work Program - Subpart A)**

The activities in the 2009 Planning Work Program were found eligible under 23 U.S.C. 134, 135, 505 or 49 U.S.C. 5303-5305, 5313(b) and the provisions of 23 CFR 420 and 23 CFR 450. The work program should be administered in accordance with the provisions of 49 CFR Part 18 and 23 CFR Part 420. The effective time period for funding is from June 16, 2010 – June 15, 2011. Authorization of this work is subject to the availability of funds.

Prior approval is required for the following changes to the SPR Work Program:

- Budgetary changes,
- Increase in federal funds Cumulative transfer among already approved work program line items of 10% of the total federal funds or \$100,000,
- Programmatic changes,
- Change in the scope or objectives of activities (e.g., adding or deleting line items),
- Extending the period of performance past the approved work program period,
- Transferring substantive programmatic work to a third party (e.g., consultant work not identified in the originals work program), and/or
- Capital expenditures including purchase of equipment.

RECEIVED

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Div. of Planning



There are two additional requirements associated with the SPR Work Program, an

- independent audit and an
- annual performance and expenditure report.

The Single Audit Act Amendment of 1996 requires that an independent audit be completed of any non-federal entity expending \$500,000 or more in Federal funds from all sources in a fiscal year that ends after December 31, 2003. [49 CFR 18.26, OMB Circular A-133].

An annual performance and expenditure report is required to be submitted within 90 days (3 months) after the end of the report period. The report may be more frequent if deemed necessary by Federal Highway Administration. [23 CFR 420.117(c)].

We appreciate the work that went into development of this work program and thank you for working with our office to make improvements. Thank you once again.

Sincerely yours,



Bernadette Dupont
Transportation Specialist

cc: Keith Damron, KYTC - Planning



**COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET
DEPARTMENT OF HIGHWAYS
DIVISION OF PLANNING**



**WORK PROGRAM AND COST ESTIMATE
FOR
PROJECT SP 0011 (001)
JUNE 16, 2010 THROUGH JUNE 15, 2011**

**PART I
DIVISION OF PLANNING**

**PREPARED IN COOPERATION
WITH
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION**

INTRODUCTION

The Planning and Research Program Annual Work Program is required under 23 CFR 420.111. Due to the organization of the Cabinet, the Planning and Research portions are submitted as separate documents. This document outlines the transportation planning activities as Planning (Part I) of the work program. To illustrate the Division of Planning, a detailed organization chart (See Exhibit 1) has been inserted in the work program addressing the various functional areas of the Division responsible for planning activities.

The Kentucky Transportation Cabinet has many partners in performing the planning activities. In each of the work program chapters, there is a denotation of the Highway District Offices. Each Highway District Office has a Planning Branch that performs planning activities for many of the chapters in the work program. We also have agreements with each of the 15 Area Development Districts (ADDs) in the Commonwealth. The ADDs in cooperation with the Highway District Offices Planning Branch perform for the Cabinet much of the Public Involvement in Statewide Transportation Planning (23 CFR 450.200), intermodal and freight activities, and data collection. The Metropolitan Planning Organizations receive money each year to meet the requirements of 23 CFR 450 Subpart C. The consulting industry and the Kentucky Transportation Center are also used at times when additional resources are needed.

This year's work program continues activities related to improving the quality of the Cabinet's Highway Information System (HIS) data. To align with the recent HIS upgrade, we also seek to improve the storage and reporting of the traffic count data by integrating that database with the HIS database. There is an additional emphasis added to this year's regular count program to continue the process to collect counts for local bridges as well as collect counts for ramps. There is a continued effort to maintain and improve the count program with new ATDR's and additional traffic count loops at high volume locations. There is a continued effort to prepare and improve Kentucky's Traffic Models. In general, the Division of Planning is undertaking efforts to insure quality data, to store the data more effectively, and to improve the efficiency and convenience of extracting and reporting the data.

Because of downsizing efforts and staff retirements within the Cabinet, efforts will be placed toward outsourcing services which may include traffic counts, traffic forecasts, data collection, map products, planning studies, and other needed activities. The Division of Planning is also evaluating our core functions in order to streamline and align our efforts so that required activities are completed. It may become necessary during this time to significantly downsize or eliminate programs that are not directly required by regulation or statute. We also anticipate working this upcoming year to coordinate as needed with our elected officials and AASHTO on the upcoming reauthorization bill. The Division of Planning will continue to evaluate and assist with air quality conformity issues, and we will assist the Cabinet in identifying operational and performance improvements to maximize the efficiency of the existing transportation network.

Please refer to each chapter contained within this work program for more details.

FOREWORD

This Planning Program SP 0010 (001) for the period June 16, 2010 to June 15, 2011 is submitted in compliance with the provisions of 23 CFR 420 and describes programs and operations for planning activities in the Kentucky Transportation Cabinet (KYTC). These funds will be administered in accordance with the provisions of 49 CFR 18 and 23 CFR 420. This program modifies and updates previous such programs and is specifically intended to reflect the needs of the Kentucky Transportation Cabinet. It is fully expected that products from this program will also have national applications. In general, these funds are used to assist the KYTC in meeting federal reporting and planning requirements.

The Division of Planning is charged with the responsibility for recommending, advising, and assisting the chief administrators of the KYTC in the development of the overall goals, policies, project priorities, and procedures relating to the total transportation program of the Cabinet. Proposed activities for Fiscal Year 2011 are reported in detail by Chapter in this Work Program.

We expect the majority of activities in this Work Program to be completed by June 15, 2011. However, occasionally there are programs, especially those that have to be contracted, that cannot be completed June 15. Those items that are not complete by June 15 will be identified in the Annual Performance and Expenditure Report and will either be completed under a time extension or by carry over to the next year in following 49 CFR 18 and 23 CFR 420. For those items not complete by June 15, but will be completed in a relatively short time period, an extension of the work program will be requested from FHWA so that the remainder of the funding commitments can be expended. If the commitment is expected to be long term, then a request to carry the program and funds into the next years work program will be requested.

The fiscal portions of the Work Program are based on funding availability provided by the Cabinet's Office of Budget and Fiscal Management.

DIVISION OF PLANNING

EXHIBIT 1

Current as of April 27, 2010

Director
Keith Damron

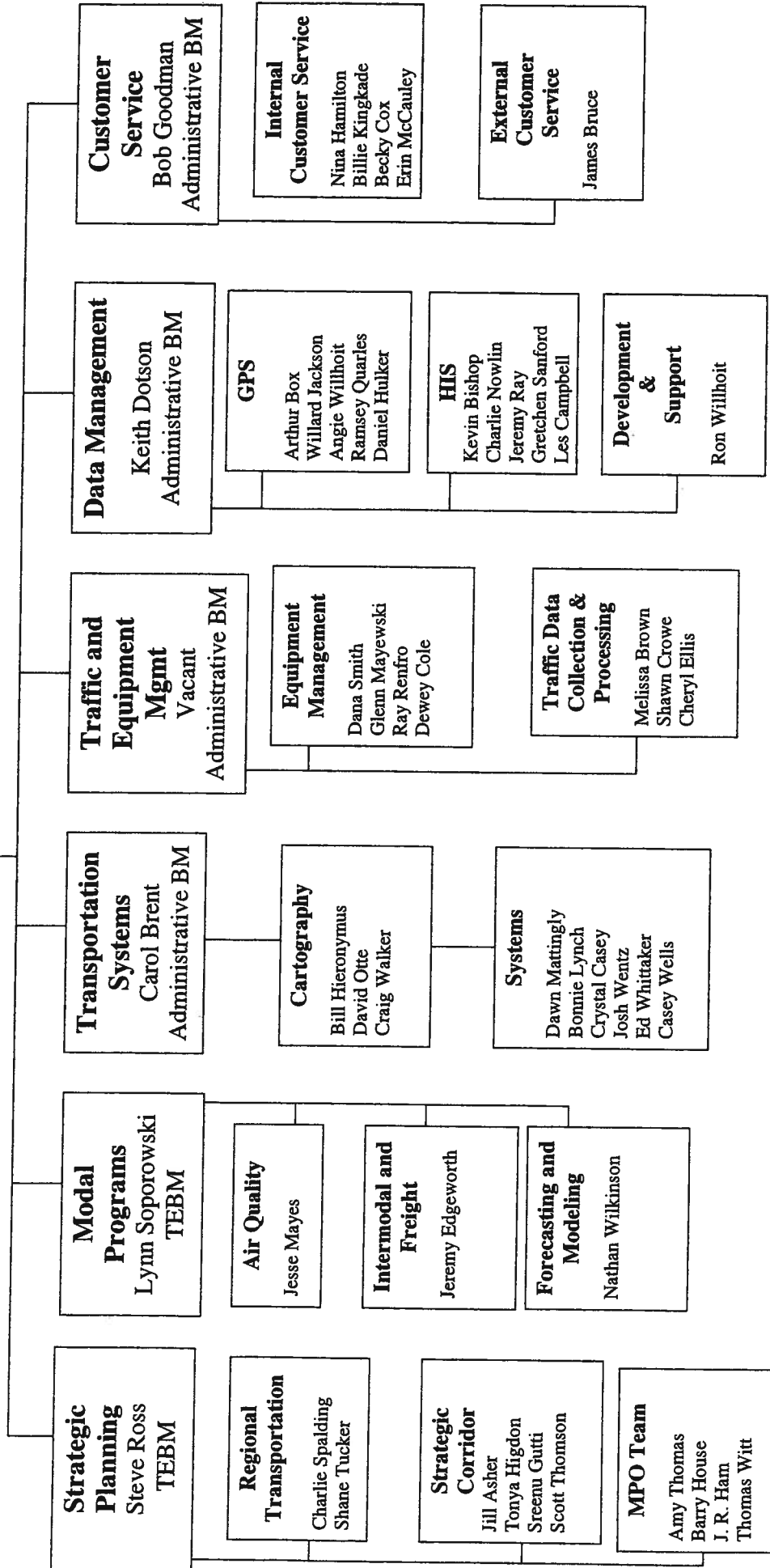


EXHIBIT 2

Planning Work Program 2011

<u>PROGRAM IDENTITY</u>	FEDERAL	STATE * MATCH	LOCAL MATCH	OTHER	TOTAL
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Kentucky Transportation Cabinet

Personnel Cost	\$7,229,688	\$1,658,812			\$8,888,500
Other Cost	\$870,312	\$199,688			\$1,070,000
Total SPR Funds	\$8,100,000	\$1,858,500			\$9,958,500

Partner Agencies

PL Funded MPO Planning Budgets	\$1,987,488	\$124,218	\$372,654		\$2,484,360
PL Discretionary Fund	\$0		\$0		\$0
Total PL Funds	\$1,987,488	\$124,218	\$372,654		\$2,484,360

ADD Regional Transportation Program (State Funds)	\$1,030,000		\$114,444		\$1,144,444
ADD Regional Transportation Program (General Funds)	\$389,500		\$43,278		\$432,778
Total ADD funds	\$1,419,500		\$157,722		\$1,577,222

TOTALS

					\$14,020,082
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Notes:

- 1) Potential Outsourced Items are indicated in each chapter
- 2) Toll Credits will be used to provide the remainder of the 20% match for the SPR funds. This is estimated to be \$280,168 in toll credits.
- 3) **PERSONNEL COSTS** include staff charges and outsourced activities or contracts. **OTHER COSTS** include equipment, supplies, software, travel, carpool rental, printing, and other charges not related to personnel costs and are identified in each chapter.

* Pending Legislative Approval

EXHIBIT 3

PL funds for MPO Unified Planning Work Programs for FY 2011 Assumes 100% Federal Funds Available

MPO AREA	TOTAL FY 2011 PL Funding										Total Fed & State \$	Total Fed & State %
	Fed \$	Fed %	State \$	State %	Local \$	Local %	F+S+L=\$	Total Contract \$	F+S=\$	F+S = %		
LOUISVILLE	\$ 947,744	80.0%	\$ 59,234	5.00%	\$ 177,702	15.00%	\$ 1,184,680	\$	\$ 1,006,978	85.00%		
NORTHERN KY	\$ 358,720	80.0%	\$ 22,420	5.00%	\$ 67,260	15.00%	\$ 448,400	\$	\$ 381,140	85.00%		
LEXINGTON	\$ 301,664	80.0%	\$ 18,854	5.00%	\$ 56,562	15.00%	\$ 377,080	\$	\$ 320,518	85.00%		
HENDERSON	\$ 30,368	80.0%	\$ 1,898	5.00%	\$ 5,694	15.00%	\$ 37,960	\$	\$ 32,266	85.00%		
OWENSBORO	\$ 81,328	80.0%	\$ 5,083	5.00%	\$ 15,249	15.00%	\$ 101,660	\$	\$ 86,411	85.00%		
ASHLAND	\$ 80,000	80.0%	\$ 5,000	5.00%	\$ 15,000	15.00%	\$ 100,000	\$	\$ 85,000	85.00%		
CLARKSVILLE / OAK GROVE	\$ 27,664	80.0%	\$ 1,729	5.00%	\$ 5,187	15.00%	\$ 34,580	\$	\$ 29,393	85.00%		
BOWLING GREEN	\$ 80,000	80.0%	\$ 5,000	5.00%	\$ 15,000	15.00%	\$ 100,000	\$	\$ 85,000	85.00%		
RADCLIFF-ELIZABETHTOWN	\$ 80,000	80.0%	\$ 5,000	5.00%	\$ 15,000	15.00%	\$ 100,000	\$	\$ 85,000	85.00%		
DISCRETIONARY FOR SEPARATE CONTRACT	\$ -	0.0%	\$ -	0.00%	\$ -	0.00%	\$ -	\$	\$ -	0.00%		
PL Budget Total	\$ 1,987,488		\$ 124,218		\$ 372,654		\$ 2,484,360	\$	\$ 2,111,706			

NOTE: State matching funds are 5% for formula funds only. Local funds do not flow through KYTC. The Kentucky MPO Council chose not to fund any discretionary projects for FY 2011.

FY 2011
SPR CHAPTER FUNDING SUMMARY

<u>CHAPTER</u>	<u>TITLE</u>	<u>AMOUNT</u>
1	SPR Work Program	\$68,000
2	Personnel Training	\$330,300
3	Traffic and Equipment Management	\$2,895,000
4	Roadway Systems	\$721,900
5	Cartography	\$520,100
6	Highway Information System	\$1,916,100
7	Strategic Corridor Planning	\$1,055,100
8	Statewide Transportation Planning	\$780,300
9	Metropolitan Planning Organizations	\$562,200
10	Air Quality	\$136,800
11	Multimodal Transportation	\$261,300
12	Congestion, Mobility, and Access Management	\$144,900
13	Traffic Data Forecasting	\$459,000
14	Bicycle and Pedestrian Program	\$107,500
15	Highway Safety Improvement Program	\$300,000
	TOTAL	\$10,258,500

CHAPTER 1

SPR Work Program

RESPONSIBLE UNITDivision of Planning
Customer Service Branch**PURPOSE AND SCOPE**

The Customer Service Branch in the Division of Planning is responsible for administrative activities directly attributable to the completion of the SPR Planning Work Program chapters.

PROPOSED ACTIVITIES FOR 2010-2011

- Coordinate with all other branches in the Division of Planning in order to prepare the annual SPR Planning Work Program.
- Prepare monthly expenditure reports for each chapter of the SPR Planning Work Program.
- Update accomplishments of the SPR Planning Work Program quarterly.
- Coordinate and prepare the annual SPR Planning Work Program and Expenditures Report.

PRODUCTS

The Internal Customer Service Section will coordinate and prepare the annual SPR Planning Work Program and the annual SPR Planning Work Program and Expenditures Report. This Section will also prepare and distribute to other Branches monthly expenditure reports for all chapters in the SPR Planning Work Program. The Internal Customer Service Branch will update accomplishments to the SPR Planning Work Program quarterly and distribute these updates to other Branches.

DISTRIBUTION OF ESTIMATED COST FOR 2010-2011

	2010-2011
PERSONNEL	68,000
OTHER	
TOTAL	68,000

CHAPTER 2

Personnel Training

RESPONSIBLE UNIT

Division of Planning

PURPOSE AND SCOPE

The training of personnel is essential to the transportation program in order to keep pace with changing techniques and evaluate new procedures and developments as well as to help better develop the abilities of employees as they assume the vacated duties brought on through mass retirements, promotions, and transfers. This is particularly essential to the Cabinet's programs as more efficient and detailed technical analyses and assistance are required.

PROPOSED ACTIVITIES FOR 2010-2011

An effort will be made to continue a level of staff training which will maintain the integrity of professional career development and improvement of technological skills. Such training will include, but not be limited to the following workshops, classes, and conference or like training. This will not include registration fees to attend annual meetings or conferences except fees for portions of such conferences that do provide eligible training. We will also provide annual in-state Traffic Data Recorder Training for District personnel. Training for Highway District Office Planning personnel, ADD personnel, and MPO personnel in procedures, regulations, technical issues, etc., may also be included as necessary to provide for improved coordination and efficiency within and between the Statewide and Metropolitan planning efforts.

PEEK Training (Chapter 3 – Traffic and Equipment Management)

NATMEC Training (Chapter 3 – Traffic and Equipment Management)

TMG Training (Chapter 3 – Traffic and Equipment Management)

TRADAS (Chapter 3–Traffic and Equipment Management and Chapter 13–Traffic Data Forecasting)

GIS Conference (Chapter 4 – Roadway Systems, Chapter 6 – Highway Information System and Chapter 12 – Congestion, Mobility and Access Management)

ESRI (Chapter 5 – Cartography)

Adobe Illustrator (Chapter 5 – Cartography)

KAMP (Ky Assoc of Mapping Professionals) Annual Meeting (Chapter 4 – Roadway Systems, Chapter 5 – Cartography)

GIS-T (GIS for Transportation) Annual Meeting (Chapter 4 – Roadway Systems, Chapter 5 – Cartography)

Highway Performance Monitoring System (HPMS) (Chapter 6 – Highway Information System)

Highway Information System Conference (HIS) (Chapter 6 – Highway Information System)

Highway Economic Requirements System (HERS) (Chapter 6 – Highway Information System)

Asset Management Conference (Chapter 6 – Highway Information System)

EXOR Training conference (Upgrade of HIS) (Chapter 6 – Highway Information System)

HIDAC Training (Chapter 6 – Highway Information System)

CHAPTER 2

Personnel Training (continued)

RESPONSIBLE UNIT

Division of Planning

PROPOSED ACTIVITIES FOR 2010-2011 (continued)

Public Involvement (Chapter 7 –Strategic Corridor Planning, Chapter 8–Statewide Transportation Planning, and Chapter 9 – Metropolitan Planning Organization)

Purpose and Needs Statements Training (Chapter 7 –Strategic Corridor Planning, Chapter 8–Statewide Transportation Planning Chapter 9 – Metropolitan Planning Organization)

NEPA(Chapter 7 –Strategic Corridor Planning, Chapter 8–Statewide Transportation Planning, and Chapter 9 – Metropolitan Planning Organization)

GIS (Chapter 7 –Strategic Corridor Planning, Chapter 8–Statewide Transportation Planning Microsimulation (Chapter 7 –Strategic Corridor Planning

Administration of FHWA Planning and Research Grants Chapter 9 – Metropolitan Planning Organization)

TRB Small and Medium Communities Conference (Chapter 9 – Metropolitan Planning Organization)

Transportation and Land Use (Chapter 9 – Metropolitan Planning Organization)

Climate Change (Chapter 9 – Metropolitan Planning Organization, Chapter 10 – Air Quality Conformity Analysis)

STAQS (Chapter 10 – Air Quality Conformity Analysis)

MOVES (Chapter 10 – Air Quality Conformity Analysis)

National Freight Conference (Chapter 11 – Multimodal Transportation)

Modeling Conferences and Training (Chapter 13 – Traffic Data Forecasting)

TransCAD Training (Chapter 13 – Traffic Data Forecasting)

Census Training (Chapter 5 – Cartography, Chapter 9 – Metropolitan Planning Organization, Chapter 10 – Air Quality Conformity Analysis, Chapter 13 – Traffic Data Forecasting)

Bike/Ped Conferences (Chapter 14 – Bicycle and Pedestrian Program)

Bicycle and Pedestrian Facilities Conference (Chapter 14 – Bicycle and Pedestrian Program)

Training for State Bicycle and Pedestrian Coordinator (Chapter 14 – Bicycle and Pedestrian Program)

Partnering Conference (Chapter 3 – Traffic and Equipment Management, Chapter 4 – Roadway Systems, Chapter 6 – Highway Information System, Chapter 7 – Strategic Corridor Planning, Chapter 8 – Statewide Transportation Planning, Chapter 9 – Metropolitan Planning Organization, Chapter 13 – Traffic Data Forecasting, and Chapter 14 – Bicycle and Pedestrian Program)

CHAPTER 2

Personnel Training (continued)

RESPONSIBLE UNIT

Division of Planning

PRODUCTS

Personnel with career development opportunities, improved technological skills, broadened knowledge, enhanced capabilities, and more efficient operation.

DISTRIBUTION OF ESTIMATED COST FOR 2010-2011

	2010-2011
PERSONNEL	295,300
OTHER	35,000
TOTAL	330,300

Other

- Other Operational Cost \$35,000
For items such as travel, mileage, equipment and other cost directly associated to the completion of this work chapter.

CHAPTER 3

Traffic and Equipment Management

RESPONSIBLE UNIT

Division of Planning
Traffic and Equipment Management Branch

PURPOSE AND SCOPE

The Equipment Management Team focuses on the identification, purchase, repair/maintenance, placement, and operation of various pieces of traffic data collection equipment statewide with the Districts and within the Division.

The Traffic Data Collection and Processing Team, working with our Highway District Offices, assign, process, analyze, and provide access to traffic volume and vehicle classification data for highway planning, design, reporting to FHWA, analytical and forecasting purposes, transportation decisions, and various other purposes. This involves making a significant number of short duration (usually 48 hours) portable machine counts on the State Highway System, non-state maintained roads that are functionally classified as arterials and collectors, ramps, and local road bridges. An adequate program of continuous traffic counting stations (ATRs) provides the basis for factoring short-term counts.

PROPOSED ACTIVITIES FOR 2010-2011

- Maintain, update, analyze, provide quality control and assurance of data, and make available data from more than 13,500 traffic count stations.
- Maintain, update, analyze, provide quality control and assurance of data, and make available data from more 2,000 ramp count stations
- Work with the Highway District Offices to perform approximately 6,500 regularly scheduled short-duration portable machine counts yearly which include one-third of all short-duration traffic count stations and ramp traffic count stations.
- In accordance with the Traffic Monitoring Guide, collect and process vehicle classification data for approximately 2,000 stations, which is 25-30% of all traffic count stations statewide.
- Review, assign, process, analyze, and distribute data for approximately 400 special count stations that are requested by the highway districts and other divisions annually.
- Collect volume and classification data on approximately 200 interstate stations.
- Work to restart the WIM program to collect, process, analyze, and submit quarterly one week of weigh-in-motion (WIM) data at 28 permanent WIM stations. Periodically calibrate and assess equipment for adjustments in order to obtain quality data.
- Download, process, repair, maintain, and analyze data from 80+ permanent ATR stations. Review proper operation, locations, and coverage for possible new ATR station installations. Install additional stations as necessary.
- Update axle and monthly factors used in adjusting short term counts, such as weekly, monthly, and axle correction factors from data collected at ATR and vehicle classification stations.
- Investigate and purchase new technologies, sensors, data recorders, and communication devices developed for the traffic-counting industry to provide for safer, more efficient and more accurate methods of collection.
- Certify, repair, and maintain approximately 800 traffic data recorders.
- Install, inspect, repair, and maintain 550 permanent vehicle sensor locations.

CHAPTER 3

Traffic and Equipment Management (continued)

RESPONSIBLE UNIT

Division of Planning
Traffic and Equipment Management Branch

- Work with Highway District Offices to perform 1,400 short duration portable machine local road bridge counts which include one-third of all local road bridge counts.
- Provide traffic data for annual FHWA required HPMS report.
- Review and analyze functionally classified local road data (collected by contractor) to validate formula used to calculate local road DVMT.
- Track emerging highway projects and produce plans and specifications for new and replacement traffic sensor installations for submittal into construction and pavement rehabilitation contracts.
- Update in-house databases to include any new stations or roadway alignment changes. Correct beginning and ending mile points to better represent traffic generators.
- Detect, analyze, and adjust volume counts while combining and creating additional stations where necessary.
- Document the TMS process and update as needed.
- Provide oversight of consultants/contractors to assist the Division TMS field data collection. Process and provide quality control and assurance of those counts. Provide storage and analysis of those counts.
- Review, analyze, and update data summaries for vehicle weights and calculating Equivalent Single Axle Loads (ESALs).
- Test and implement new software to move mainframe vehicle classification and traffic volume data to a pc-based software with much more capabilities for display, trend analysis, and viewing that also works with the upgrade of HIS.
- Develop annual traffic count technician training program.
- Arterial contract for Loop and Piezo installation and maintenance
- Complete contracts for installation of approximately 60-65 new loops and piezos continued in fiscal year 2011.

PRODUCTS

- Short-duration portable machine volume and classification counts
- Perform and process data for special counts
- Install, maintain, and process data from permanent Automatic Traffic Recorders (ATRs)
- Updated axle, monthly factors, and correction factors
- Updated and maintained databases of count data, count stations, or other associated data
- Weigh-in-motion data
- Install, maintain, and process volume and classification data from permanent vehicle sensor locations at high volume and other locations where it is not feasible to conduct portable counts
- Accurate local DVMT data for FHWA reporting through HPMS

CHAPTER 3

Traffic and Equipment Management (continued)

RESPONSIBLE UNIT

Division of Planning
Traffic and Equipment Management Branch

DISTRIBUTION OF ESTIMATED COST FOR 2010-2011

	2010-2011
PERSONNEL	2,440,000
OTHER	455,000
TOTAL	2,895,000

ESTIMATED OUTSOURCING EXPENSES AND PURCHASES

Outsourcing

- \$650,000 contract for outsourced traffic counts and sensor installations to be performed by consultant under Statewide Traffic Counting contract.
- \$100,000 for Weigh-In-Motion (WIM) data compilation to be performed by UK (Not heard from Clark yet)
- \$575,000 for Interstate and Arterial contract for Loop and Piezo installation and maintenance

Other

- \$250,000 for purchase of new Traffic Data Collection Equipment
- \$100,000 for Piezos, Road Tube, and counting supplies
- \$75,000 Other Operational Cost
For items such as travel, mileage, equipment and other cost directly associated to the completion of this work chapter.

CHAPTER 4

Roadway Systems

RESPONSIBLE UNIT

Division of Planning
Transportation Systems Branch

PURPOSE AND SCOPE

The Roadway Systems Team maintains the official Department of Highways records for the following: State Primary Road System (SPRS); National Highway System (NHS); Functional Classification System; Designated National Truck Network (NN); Coal Haul Highway System; and Forest Highway System. The team works with Highway District Office Planning and Central Office Data Management staffs and other sources as available to track roadway changes, accomplish systems changes, and prepare official documents for approval. The team annually gathers and compiles source data on the transportation of coal by truck in the Commonwealth of Kentucky to prepare the Coal Haul Highway System Report and other coal transportation information.

PROPOSED ACTIVITIES FOR 2010-2011

- Track roadway construction or revision projects to identify changes in roadways and their effect on roadway system designations.
- Adapt project design plans and use GIS software to generate maps for resolving issues of roadway system and ownership designations and for use by other branches.
- Coordinate the two-way flow of information between the Highway District planning staffs and Central Office Transportation Systems and Data Management branch staffs regarding roadway construction and ownership status.
- Generate official documentation recommending appropriate SPRS revisions to the Commissioner of the Department of Highways for approval. (KRS 177.020 and 603 KAR 3:030)
- Ensure the SPRS reflects roadways of significance, and correlates with the functional classification system and the electronic base map coverage.
- Prepare quarterly reports for publication on the internet of SPRS mileage and of the designated routes and mileage of roads in the NHS and NN systems.
- Review revisions to the SPRS to discover any modifications made necessary to other systems such as functional classification, NHS, or NN classifications.
- As requested by local public agencies or Highway Districts, review requests for revisions of functional classification, NHS and NN. As appropriate, prepare request from Cabinet to FHWA for system revision.
- As necessary or appropriate, review interstate frontage roads. Coordinate documentation by Highway District offices of suitability for transfer to local government and prepare request from Cabinet to FHWA for permission to complete transfer of property to local government.
- As necessary or appropriate, prepare and submit request for approval by AASHTO Standing Committee on Highways, U.S. Route Numbering Special Committee, for any significant change to routing of a U.S. numbered highway
- Provide all system revision information to the Data Management branch and others as appropriate.
- Compile data to provide ton-mile statistics to the Governor's Office for Local Development for coal transported on Kentucky Highways as required by KRS 177.977 and KRS 42.455

CHAPTER 4**Roadway Systems (continued)****RESPONSIBLE UNIT**

Division of Planning
 Transportation Systems Branch

- Publish Kentucky's Official Coal Haul Highway System Report as required by s KRS 177.977 and KRS 42.455..
- Provide the Division of Maintenance information for their review. Develop the update of the Extended Weight Coal and Coal By-Products Haul Road System for replacement of the current system in the Highway Information System database. Prepare the Official Order for approval of the updated Extended Weight system.

PRODUCTS

- Official Order Changes to the State Primary Road System
- State Primary Road System Official Order Listings and Functional Classification Reports
- Quarterly Reports on internet: State Primary Road System Mileage, National Highway System roadway classification, National Truck Network roadway classification
- GIS map files incorporating project design files for decision-making and use by other Branches
- Coal Haul System Report with associated maps and separate datasets to Department of Local Governments, KYTC Budgets and KYTC Bridge Maintenance
- Request to FHWA for modification of functional classification
- Request to FHWA for modification of National Truck Network (NN) or Official Order Change to State Designated National Truck Network
- Request to FHWA for modification of National Highway System
- Request to FHWA for permission to relinquish interstate frontage road to local government

DISTRIBUTION OF ESTIMATED COST FOR 2010-2011

	2010-2011
PERSONNEL	696,900
OTHER	25,000
TOTAL	721,900

Other

- \$25,000 Other Operational Cost
 For items such as travel, mileage, equipment and other cost directly associated to the completion of this work chapter.

CHAPTER 5

Cartography

RESPONSIBLE UNIT

Division of Planning
Transportation Systems Branch

PURPOSE AND SCOPE

The Cartography Team meets the needs of the Division, Cabinet, other state agencies, and entities outside state government for general and special purpose maps. The team creates, updates, and distributes a wide variety of standard cartographic products in electronic and/or paper format. The team creates maps depicting various analyses of highway transportation data in digital and/or printed format. They also work to develop procedural and technical standards for digital mapping.

PROPOSED ACTIVITIES FOR 2010-2011

- Provide electronic mapping for all city, county, district, state, and special-purpose cartographic products.
- Maintain and publish electronic formats of cartographic products for display on the Internet.
- Update the Official State Highway Map electronic files and accomplish necessary publication. Monitor inventory at 17 locations and coordinate additional deliveries as needed.
- Create reports and exhibits for various Division projects and studies to assist transportation decision-makers in their roles.
- Provide mapping and graphic assistance to other Divisions and Departments as requested.
- Develop and provide to outside entities digital maps as requested.
- Develop and provide geographic information systems (GIS) dfiles locating non-roadway modes of transportation.

PRODUCTS

- Official Highway Map
- State Primary Road System Maps
- Functional Classification Maps
- Other Highway Data Maps (i.e., NHS, NN, etc. maps)
- Cabinet and Planning Project Exhibit Maps/Displays
- GIS Analyses of various data for transportation decision-making
- General and special purpose maps as requested by other agencies
- Geographic information systems (GIS) electronic files

CHAPTER 5

Cartography (continued)

RESPONSIBLE UNIT

Division of Planning
Transportation Systems Branch

DISTRIBUTION OF ESTIMATED COST FOR 2010-2011

	2010-2011
PERSONNEL	415,100
OTHER	105,000
TOTAL	520,100

ESTIMATED OUTSOURCING EXPENSES AND PURCHASES

Outsourcing

- \$150,000 for Technical Assistance program with UK to provide Interns to help with various SPR program items.
- \$50,000 for highway map outsourced production assistance.

Other

- \$100,000 for Official Highway Map Publication.
- \$5,000 Other Operational Cost
For items such as travel, mileage, equipment and other cost directly associated to the completion of this work chapter.

CHAPTER 6

Highway Information System

RESPONSIBLE UNIT

Division of Planning
Data Management Branch

PURPOSE AND SCOPE

The Data Management Branch responsibilities include assistance and support for maintenance of the Transportation Cabinet's Highway Information System (HIS) which includes storage of all roadway characteristic information, transportation systems information, and the Cabinet's roadway centerline Geographic Information System (GIS). They also contribute to the KYTC Asset Management program by providing an up-to-date route network for asset location from other divisions and provide asset extraction for update to the network. They also coordinate and perform data collection update activities for the statewide Geographic Information System (GIS) transportation layer, HPMS data, operational performance data, and roadway characteristics in cooperation with the Area Development Districts (ADDs) and internal staff members. From this information the Branch uses the Highway Performance Monitoring System (HPMS) to establish a baseline and assist with analysis for measuring highway system performance and produce the highway data submittal required annually by the Federal Highway Administration (FHWA). They provide information to the Transportation Cabinet, other governmental agencies, consultants, and private organizations via requests or by posting data to the Division's web site.

PROPOSED ACTIVITIES FOR 2010-2011

- Work with the Office of Information Technology (OIT) to upgrade the HIS database to the next release of "Highways by EXOR" and deploy to other data owners within the cabinet.
- Work with OIT to assist with database upgrades that include links, functionality, and data exchange with other division databases.
- Assist with implementation of new Traffic System database including links, functionality, and data exchange between HIS and the new database.
- Assist with implementation of the photo van imaging system for data collection purposes. This will include providing up to date route network for photo location accuracy and data extraction oversight.
- Assist with cabinet wide asset management data collection and data dissemination
- Continue to develop processes and procedures to review, edit, and update Cabinet's base map and HIS database.
- Assist with testing, training, report migration, and enhancements with the HIS.
- Assist in the development and maintenance of a Cabinet GIS and maintain database network for Kentucky's public highway system.
- Update newly acquired road centerline data collected from ADD or central office staff using GPS collection methods or CAD design file extraction to the existing highway network. Update and verify roadway mileage, highway systems data, for use in maintaining and generating data driven maps.
- Improve and update roadway characteristic, HPMS, Performance Measure, and analysis data through ADD data collection project.

CHAPTER 6 Highway Information System (continued)

RESPONSIBLE UNIT

Division of Planning
Data Management Branch

PROPOSED ACTIVITIES FOR 2010-2011 (continued)

- Perform office reviews to verify data meets the required standards and confidence levels established by this Division and FHWA.
- Provide up-to-date route network, DMI, roadway characteristics and system information through various programs.
- Process and submit annual HPMS submittal.
- Utilize HPMS to update Rating Indices, Capacity, and Volume/Service Flow ratio in the HIS database.
- Use HIS to measure highway system performance and assist with analyses of the Unscheduled Projects List.
- Maintain currency of HPMS software and perform changes required by federal legislation, regulations, policies, and/or guidelines, as needed to the HPMS.
- Investigate results of HPMS each year and analyze changes in processes to improve output of report.
- Assist in processing and reporting of the FHWA 534 and 536 reports.

PRODUCTS

- Routines to extract better road information from the GPS files (i.e. vertical grade, horizontal curve)
- Queries and routines for quality control of the database concerning asset items and road information
- Database and GIS application troubleshooting when errors take place
- Database and GIS upgrades
- Other agency information loaded or linked to HIS database
- New roadway centerlines obtained through GPS technology and CAD design files and updates to both the GIS layers and HIS database
- New roadway inventory either through field collection or extracted from CAD design files to update the GIS layers and HIS database
- New roadway inventory extracted through photo van software
- Existing roadway characteristic inventory QC checks from photo van pictures
- Transportation Enterprise database updates for cabinetwide consumption of data
- Cabinet wide Asset Management updates and route locations to update other divisions
- HPMS 534 and 536 Reports
- HPMS submittal due June 15, 2011
- Reports created concerning information about transportation network stored in HIS database
- Provide Certification of Public Road Mileage by June 1

CHAPTER 6

Highway Information System (continued)

RESPONSIBLE UNITDivision of Planning
Data Management Branch**DISTRIBUTION OF ESTIMATED COST FOR 2010-2011**

	2010-2011
PERSONNEL	1,431,100
OTHER	260,000
TOTAL	1,916,100

ESTIMATED OUTSOURCING EXPENSES AND PURCHASES**Outsourcing**

- \$32,000 to outsource 536 report
- \$50,000 to outsource for GPSing of roadway changes.
- \$250,000 to outsource for Roadway Asset Management Data Collection to several of the 15 ADD's, with contracts less than \$100,000 for each.
- \$200,000 Asset Management & Support through IT
- \$100,000 to outsource for Local Road Attribute Data Collection to all of the 15 ADD's, with contracts less than \$100,000 for each.
- \$300,000 to outsource for Asset Management Data extraction from photo van images

Other

- \$150,000 for EXOR ecredits
- \$75,000 Other Operational Cost For items such as travel, mileage, equipment and other cost directly associated to the completion of this work chapter.
- \$35,000 computer software maintenance for upgrading HPMS.

CHAPTER 7

Strategic Corridor Planning

RESPONSIBLE UNIT

Division of Planning
Strategic Planning Branch
Strategic Corridor Planning Team

PURPOSE AND SCOPE

The Strategic Corridor Planning Team evaluates system and corridor needs for the state maintained roadways. It enhances and continues to update an evaluation process for prioritizing projects for consideration for inclusion in the Six-Year Highway Plan and the Unscheduled Projects List. It also conducts technical project studies performing the necessary levels of planning to develop a conceptual and draft purpose and need statement, identifies major environmental issues including environmental justice, initiates consultation with local officials, initiates agency coordination and conducts appropriate levels of public involvement. It identifies and evaluates alternatives, generates project cost estimates and recommends phasing priorities where appropriate. The team oversees outsourced activities and works with the Highway District Offices (HDOs), Metropolitan Planning Organizations (MPOs), and Area Development Districts (ADDs) as needed to complete necessary tasks.

PROPOSED ACTIVITIES FOR 2010-2011

- Continue to develop and update policy and procedures for evaluating corridor level needs.
- Conduct corridor, system, small urban area studies, first look studies, and other studies.
- Respond to inquiries about corridor planning issues.
- Identify, evaluate and prioritize corridor, system, and small urban area needs through data analysis and public involvement.
- Oversee outsourced activities.
- Evaluate identified needs statewide to assist in prioritizing projects for programming in the Highway Plan.

PRODUCTS

Such Studies will include, but not be limited to the following:

- Programming Studies
Franklin US 421 Franklin Programming Study 05-8109.00
- Scoping Studies
Hardin KY 251 Scoping Study 04-153.00
McCracken US 60 Scoping Study 01-125.00
- Alternatives Studies
Bullitt, Spencer KY 44 Alternative Study 05-396.00

CHAPTER 7

Strategic Corridor Planning (continued)

RESPONSIBLE UNIT

Division of Planning
Strategic Planning Branch
Strategic Corridor Planning Team

PRODUCTS (continued)

- Small Urban Area Studies

Knox, Whitley	Corbin	Small Urban Area Study
Shelby	Shelbyville	Small Urban Area Study
Marion	Lebanon	Small Urban Area Study
- Interchange Justification Studies

Jefferson I-264 / US 42 Interchange Scoping Study 05-390.00
- Feasibility Studies
- First Look Studies

A First Look Study for Six-Year Plan and Unscheduled Projects.
- Priorities for Highway Plan Programming

DISTRIBUTION OF ESTIMATED COST FOR 2010-2011

	2010-2011
PERSONNEL	1,035,100
OTHER	20,000
TOTAL	1,055,100

ESTIMATED OUTSOURCING EXPENSES AND PURCHASES

Outsourcing

- \$700,000 to outsource for Planning Studies. FHWA will be notified when planning studies utilizing SPR funds are initiated.

Other

- \$20,000 Other Operational Cost

For items such as travel, mileage, equipment and other cost directly associated to the completion of this work chapter.

CHAPTER 8

Statewide Transportation Planning

RESPONSIBLE UNIT

Division of Planning
Strategic Planning Branch

PURPOSE AND SCOPE

The Statewide Planning Team conducts a comprehensive statewide transportation planning process with the Area Development Districts (ADDs), Metropolitan Planning Organizations (MPOs), and the Highway District Offices (HDOs). This process includes consideration of all modes and development of a policy driven and data-based approach to identification, analysis and prioritization of needs. The team also updates a Statewide Transportation Plan (STP) as needed and ensures that the STP and STP Program are SAFETEA-LU compliant. Through these processes and partnerships, this team provides meaningful input to the Highway Plan.

PROPOSED ACTIVITIES FOR 2010-2011

- Review and update the STP document as needed.
- Develop and implement processes as needed to ensure SAFETEA-LU compliance.
- Coordinate with other transportation modes, land use, environmental, and other resource agencies.
- Enhance the statewide transportation planning process by including data collection and analysis, public involvement, and coordination.
- Identify, evaluate, and prioritize transportation projects through data analysis and public involvement.
- Coordinate/implement the conversion of the Project Identification Form/Unscheduled Projects List database to one consolidated database.
- Coordinate with other Divisions, Districts, and Agencies and incorporate applicable plans as necessary to ensure compliance with new authorization or SAFETEA-LU extension compliance.
- Coordinate and oversee the ADD Regional Transportation Program.
-

PRODUCTS

- Statewide Transportation Plan updates as needed
- Unscheduled Projects List database
- Project Identification Forms conversion to new web based format
- Annual Work Programs and Contracts for 15 Area Development Districts
- Four Statewide Transportation Planning Meetings
- Individual ADD Planner Assessments

CHAPTER 8

Statewide Transportation Planning (continued)

RESPONSIBLE UNIT

Division of Planning
Strategic Planning Branch

DISTRIBUTION OF ESTIMATED COST FOR 2010-2011

	2010-2011
PERSONNEL	745,300
OTHER	35,000
TOTAL	780,300

ESTIMATED OUTSOURCING EXPENSES AND PURCHASES

Outsourcing

- \$75,000 to outsource for studies and assistance related to the Statewide Planning SPR Work Program

Other

- \$35,000 Other Operational Cost
For items such as travel, mileage, equipment and other cost directly associated to the completion of this work chapter.

CHAPTER 9

Metropolitan Planning Organizations

(Areas over 50,000 Population)

RESPONSIBLE UNIT

Division of Planning
Strategic Planning Branch
MPO Team

PURPOSE AND SCOPE

The MPO Team provides technical assistance to and coordination with the Metropolitan Planning Organizations (MPOs) for developing and maintaining a continuing, cooperative, and comprehensive (3C) transportation planning process. This process ensures that KYTC and local transportation projects remain eligible to receive federal funding. The scope of work is in accordance with the Unified Planning Work Program (UPWP), which describes all anticipated urban transportation and transportation-related planning activities to be performed.

PROPOSED ACTIVITIES FOR 2010-2011

- Review and implement changes to the MPO planning process as a result of an expected new federal transportation bill.
- Incorporate statewide changes and provide data, analysis, and support in implementation of new Census 2010 data within the planning process including activities such as updating the PL distribution formula, coordinating the review of MPO urban boundaries, responding if new MPOs are identified, etc.
- Provide technical assistance and oversight review of MPO activities, programs, documents, models and/or tools.
- Attend technical, policy, and other committee meetings to represent the Cabinet.
- Conduct contract management and oversight for federal funds.
- Ensure consistency between local and state plans and programs.
- Coordinate with other transportation modes to obtain input on multimodal issues for the Metropolitan Transportation Plans (MTPs).
- Work with the MPOs and Highway District Offices (HDOs) on Project Identification Forms (PIFs), data collection, and training.
- Conduct four regular statewide meetings.
- Coordinate with the Transportation Management Areas (TMAs) on the programming and tracking of dedicated Federal Statewide Transportation Program (STP) funded projects and the development of compliant Congestion Management Processes (CMPs).
- Coordinate with MPOs on air quality issues, analysis, and conformity.

PRODUCTS

- Assistance to MPOs in preparing compliant Transportation Improvement Programs (TIPs), MTPs, Participation Plans (PPs), CMP's and UPWP's
- MPO Self Certifications (participant)
- Establish new MPOs as identified by Census 2010
- Assistance to MPOs in updating their urban boundaries
- Updated MPO PL distribution formula
- MPO UPWP Contracts and administration

CHAPTER 9

Metropolitan Planning Organizations (continued)
(Areas over 50,000 Population)

RESPONSIBLE UNIT

Division of Planning
Strategic Planning Branch
MPO Team

PRODUCTS (continued)

- MPO dedicated STP fund contracts and administration
- Four Statewide Transportation Planning Meetings
- Special Studies
- LPA Guidance Manual

DISTRIBUTION OF ESTIMATED COST FOR 2010-2011

	2010-2011
PERSONNEL	537,200
OTHER	25,000
TOTAL	562,200

ESTIMATED OUTSOURCING EXPENSES AND PURCHASES

Outsourcing

- \$50,000 LPA Training and other studies

Other

- \$25,000 Other Operational Cost
For items such as travel, mileage, equipment and other cost directly associated to the completion of this work chapter.

CHAPTER 10

Air Quality

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch
Air Quality Team

PURPOSE AND SCOPE

The Air Quality Team will coordinate and perform analyses necessary to determine regional air quality conformity. They will also assist in the development of regulations, guidance, and best practices in order to ensure compliance and deliver transportation projects within designated non-attainment and maintenance areas.

PROPOSED ACTIVITIES FOR 2010-2011

- Host and/or participate in interagency consultation calls regarding transportation conformity for updates and amendments to MTP plans, TIPs, and STIP.
- Run the current emissions model for ozone and PM2.5 regional air quality conformity analyses for Ashland and Christian County areas as well as other newly designated areas.
- Maintain a working knowledge of the guidelines for the 8-hour ozone and PM 2.5 standards, EPA's current emissions model, air quality regulations, and implementation guidance. Attend necessary meetings and conferences to stay abreast of air quality issues.
- Facilitate monthly conference calls with federal, state, and local partners to discuss timely air quality regulations and conformity issues.
- Educate KYTC staff, KYTC management, public officials, and the general public about air quality, conformity analysis, and federal guidelines and on new developments with greenhouse gas/climate change requirements. Disseminate information about the PM2.5 and 8-hour ozone standards and designation process and on new developments with greenhouse gas requirements.
- Provide VMT and speeds to DAQ for their development of the State Implementation Plans (SIPs) for non-attainment and maintenance areas.
- Review, comment, and participate during the preparation of mobile budgets for the development of the attainment demonstration and maintenance SIPs for the 8-hour ozone and PM2.5 standards designations, SIP amendments, and budget adjustments.
- Provide support to the Office of Local Government for CMAQ related issues, as needed.
- Assist District Offices with the preparation of CMAQ applications including emission calculations and documentation.
- Maintain a working knowledge of emerging issues and best practices, such as diesel emissions reduction strategies and greenhouse gases.
- Work with the freight team to address pertinent air quality issues including diesel retrofits on locomotives and emission reduction best practices at rail yards and ports.
- Implement highway construction CMAQ diesel retrofit project.
- Implement KYTC Division of Equipment CMAQ diesel retrofit project.
- Implement Central Kentucky Vanpool CMAQ project if approved.
- Develop working knowledge of MOVES, EPA's current mobile emissions model.
- Manage 2011 Air Quality Media Campaign

CHAPTER 10

Air Quality Conformity Analysis (continued)

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch
Air Quality Team

PRODUCTS

- Ozone and PM 2.5 Regional Conformity Analysis for required all non-attainment and maintenance areas
- Conforming statewide and MPO planning documents
- Supply data to Division of Air Quality
- Emission calculations for CMAQ, GHG/CC as needed.

DISTRIBUTION OF ESTIMATED COST FOR 2010-2011

	2010-2011
PERSONNEL	131,800
OTHER	5,000
TOTAL	136,800

ESTIMATED OUTSOURCING EXPENSES AND PURCHASES

Outsourcing

- \$20,000 Greenhouse Gas/Climate Change and Land Use training
- \$30,000 Travel Time Reliability and Incidents research

Other

- \$5,000 Other Operational Cost

For items such as travel, mileage, equipment and other cost directly associated to the completion of this work chapter

CHAPTER 11

Multimodal Freight Transportation

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch

PURPOSE AND SCOPE

The Modal Team will collect data, plan, promote, and assist in the development of a multimodal and intermodal transportation system in Kentucky. The programs addressed in this chapter are public riverports, railroads, freight, and ferryboats.

PROPOSED ACTIVITIES FOR 2010-2011

Public Riverports

- Develop an implementation plan based on the Kentucky Riverport Improvement Project.
- Develop Kentucky's guidelines for public riverport applications to submit to the Secretary's Office for approval. Review and approve any public riverport applications received for grants.
- Plan and host Riverport Meeting as needed.
- Interface with the public riverports in the state by responding to information requests, and serving as a member of the Kentucky Association of Riverports.
- Actively participate as a member on the AASHTO Standing Committee on Water Transportation (SCOWT).
- Conduct annual on-site visits of active public riverports in the state.

Railroads

- Administer KYTC's TIGER Grant Project with RJ Corman Railroad.
- Participate in the passenger high speed rail study with GADOT and TN DOT with the Office of Transportation Delivery.
- Assist with development and maintaining the statewide railroad GIS mapping and data set using aerial photographs to be used by KYTC for roadway planning and project development.
- Update the 2002 Kentucky Statewide Rail Plan to meet current requirements (From the Passenger Rail Investment and Improvement Act (PRIIA) of 2008).
- Participate in various rail studies and research with KYTC involvement.
- Collect railroad annual reports and rail accident/incident reports as directed in 603 KAR 7:090.
- Actively participate as a member on the AASHTO Standing Committee on Rail Transportation (SCORT), American Railway Engineering and Maintenance-of-Way Association (AREMA), American Short Line & Regional Railroad Association (ASLRRA), and Kentucky Operation Lifesaver.
- Monitor, track, and distribute information about railroad line abandonments in Kentucky.
- Review need to update the 1999 passenger rail feasibility study.
- Respond to public inquiries on passenger and freight rail issues.

CHAPTER 11

Multimodal Freight Transportation (continued)

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch

PROPOSED ACTIVITIES FOR 2010-2011 (continued)

Freight

- Provide technical assistance and disseminate information to MPOs, ADDs, and project teams regarding freight movement, planning, and safety.
- Update the truck parking availability information along Kentucky interstates and parkways.
- Participate in regional freight planning efforts.
- Continue involvement with Delta Regional Authority (DRA), Mississippi Valley Freight Coalition (MFVC), Institute for Trade and Transportation Studies (ITTS), and National Cooperative Freight Research Program (NCFRP).
- Visit intermodal sites and communicate with rail, water, and road modes to identify freight-related needs and concerns involving highways.
- Continue developing relationships with Economic Development and Commerce to identify and promote intermodal freight needs.
- Research, prepare and populate information for FHWA Intermodal Connector Assessment Tool (ICAT).

Ferryboats

- Coordinate the Kentucky Ferryboat program.
- Share information concerning Ferryboat Discretionary Fund (FBD) Grant program. Review and prioritize applications received for submitting to the State Highway Engineer's Office and the Secretary's Office for approval. Administer FBD funds. FHWA will be provided all applications for review and approval.
- Plan and host the Ferryboat Meeting as needed
- Conduct annual on-site visits of Kentucky Ferryboat Operations.

PRODUCTS

- Riverport Implementation Plan
- Revised riverport application guidelines.
- Updated Statewide Rail Plan
- Updating railroad GIS database and maps for KYTC purposes
- Truck Parking along Kentucky Interstates and Parkways Study database and map
- Working ferryboat operations
- ICAT documentation
- High Speed Passenger Rail Feasibility Study with GADOT and TNDOT
- FBD application prioritization
- Annual Waterways meeting as needed
- Annual Railroad report
- RJ Corman Tiger Grant administration

CHAPTER 11

Multimodal Freight Transportation (continued)

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch

DISTRIBUTION OF ESTIMATED COST FOR 2010-2011

	2010-2011
PERSONNEL	191,300
OTHER	70,000
TOTAL	261,300

ESTIMATED OUTSOURCING EXPENSES AND PURCHASES

Outsourcing

- \$100,000 Rail Plan

Other

- \$5,000 Operation Lifesaver
- \$5,000 Kentucky Association of Riverports Dues
- \$10,000 Other Operational Cost

For items such as travel, mileage, equipment, and other costs directly associated to the completion of this work chapter

Items paid from other funding sources

- Tombigbee Waterway Dues are paid through Regional Planning (EA51 General Fund).
- \$25,000 Mississippi Valley Freight Coalition, an AASHTO subcommittee paid as a pooled fund study transfer of L550 funds
- \$25,000 Institute for Trade and Transportation Studies, a SAASHTO subcommittee paid as a pooled fund study transfer of L550 funds

CHAPTER 12

Congestion, Mobility, and Access Management

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch

PURPOSE AND SCOPE

Congestion mitigation and smooth traffic flow is important for continuing operation of Kentucky's roadways. During the normal transportation planning processes, traffic congestion is routinely considered when selecting and prioritizing long range planning projects. Therefore, the Congestion and Mobility Management Team will work to improve the planning methods, strategies, and policies used by KYTC and local planning organizations that lead to a more efficiently planned multimodal transportation system for Kentucky.

PROPOSED ACTIVITIES FOR 2010-2011

Measure Mobility & Identify Congestion

- Acquire 2009 and 2010 speed data for freeways and arterials statewide.
- Complete the development of mobility performance measures compatible with the speed data and HPMS traffic volumes.
- Refine the mobility component of the Adequacy Rating system using new performance measures.
- Develop GIS-based maps to aid in the identification of mobility and congestion related issues.
- Create the first Annual Congestion Report for calendar year 2010 showing current conditions and trends (changes) over time.
- Assist TMAs to develop and implement performance measures into their congestion management process.
- Assist planners and designers in using mobility measures in studies and projects.
- Fund participation in the Texas Transportation Institute's (TTI) pooled-funded Urban Mobility Study. There are several elements of research that affects measuring mobility.

Provide Information and Educate about Congestion Management Measures

- Update and maintain the web-based Kentucky Congestion Mitigation Toolbox.
- Assist local governments in the development of local management programs when requested.
- Research the impacts of varying levels of connectivity on the traffic volumes, congestion, and VMT on state roadways.
- Continue the update of the Planning Units (planning & zoning) GIS database.
- Maintain a park and ride GIS database of existing assets.
- Provide information and technical assistance on intersection planning, when requested.
- Educate HDO, MPOs, ADDs, and local staff about connectivity.

CHAPTER 12

Congestion, Mobility, and Access Management (continued)

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch

PROPOSED ACTIVITIES FOR 2010-2011 (continued)

Congestion Initiatives

- Research Ramp Metering as a planning tool for congestion reduction
- Implement a Statewide Vanpool Program with assistance as directed by KYTC management and Finance Cabinet.

PRODUCTS

- Maps and database of mobility measures on freeways and arterials
- Annual Congestion Report
- Updated Congestion Toolbox website
- Updated Park and Ride GIS Database
- Updated Planning Unit Database
- Creation of a new Statewide Vanpool Program, if approved by the Secretary
- Research findings on impacts of connectivity and ramp metering

DISTRIBUTION OF ESTIMATED COST FOR 2010-2011

	2010-2011
PERSONNEL	129,900
OTHER	15,000
TOTAL	144,900

ESTIMATED OUTSOURCING EXPENSES AND PURCHASES

Outsourcing

- \$80,000 for speed (mobility) data for calendar year 2010

Other

- \$10,000 for 2010 for TTI Urban Mobility Study (pooled-fund study)
- \$5,000 Other Operational Cost
For items such as travel, mileage, equipment and other cost directly associated to the completion of this work chapter.

CHAPTER 13

Traffic Data Forecasting

Statewide Traffic Model

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch
Forecasting and Modeling Team

PURPOSE AND SCOPE

The Forecasting and Modeling Team will maintain traffic trends, provide current and projected traffic volume estimates for planning, project development, operations, and other purposes. They will update and maintain local, regional, and statewide traffic models (KySTM). They will collect, process, and assemble data for determining route location or relocation, selecting among alternate routes, or as input into KySTM.

PROPOSED ACTIVITIES FOR 2010-2011

- Prepare traffic estimates for planning studies, design projects, road user costs, maintenance, and other purposes, as needed.
- Administer statewide traffic forecasting contracts and provide quality review for traffic projections made by the MPOs and planning consultants.
- Maintain databases that track traffic forecasts and traffic forecast parameters. Make databases available to other users and offices. Maintain the traffic forecasting web page as a tool for other users.
- Maintain and update internal traffic forecasting tools (e.g. ESAL spreadsheets; turning movement spreadsheets).
- Provide future year forecasting of K-factors/D-factors for the Highway Performance Monitoring System (HPMS) and compare result with TRADAS outputs.
- Update ESAL tables utilizing available 2008 and 2009 vehicle classification data
- Update ESAL Forecasting for Superpave computer program
- Update the annual Traffic Forecast Report (TFR) utilizing KTC.
- Participate in Regional Forecaster User's Group. This group includes forecasters from surrounding states that are trying to identify the state of practice for traffic forecasts.
- Host/Facilitate the Traffic Model Users Group, which is a peer group for traffic forecasters and traffic modelers composed of members from government, academia, and the private sector.
- Develop refinements and incorporate into KySTM model including the socio-economic data from MPO models. Document the process.
- Conduct studies to better calibrate and validate models. Extend peer review of large MPO models and coordinate model updates as needed for small MPO models.
- Identify areas needing an area-wide model. Develop small area and county-wide models using a standardized interface.

PRODUCTS

- Corridor or other traffic forecasts as requested
- Travel Time and Road User Cost Studies
- Traffic forecast factors for HPMS
- Design tools for consultants and District (e.g. ESAL Calculator; look-up tables)

CHAPTER 13

Traffic Data Forecasting (continued)
Statewide Traffic Model

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch
Forecasting and Modeling Team

PRODUCTS (continued)

- City/County/MPO & Statewide Traffic Models may include, but not be limited to the following:
Shelby County
Rowan County
Lebanon/Marion County -SPAC suggestion
Middlesboro/ Bell County - SPAC suggestion
- Completion of Madison County, Pulaski/Laurel County and Paducah/McCracken County models
- Models for new ozone requirements will begin being performed if information is available during this fiscal year. (Ranging between possibly 13 to 28 counties may be affected.)

DISTRIBUTION OF ESTIMATED COST FOR 2010-2011

	2010-2011
PERSONNEL	404,000
OTHER	5,000
TOTAL	459,000

ESTIMATED OUTSOURCING EXPENSES AND PURCHASES

Outsourcing

- \$50,000 for annual ESAL table and program updates by KTC using WIM
- \$25,000 for annual Traffic Forecasting Report updates by KTC
- \$205,300 for County-Wide Traffic models (outsource)

Other

- \$5,000 Other Operational Cost
For items such as travel, mileage, equipment and other cost directly associated to the completion of this work chapter.

CHAPTER 14

Bicycle and Pedestrian Program

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch

PURPOSE AND SCOPE

The team will coordinate the state's Bicycle and Pedestrian Program, develop a statewide bikeway system, and work within Transportation and with other Cabinets. They will work to expand non-motorized transportation opportunities in Kentucky by providing assistance to state and local governments and other groups, as requested. This assistance will be in the form of technical advice, development of plans, and coordinating studies. The responsibility of the Kentucky Pedestrian and Bicycle Coordinator is to prepare, assist, and promote bicycle and safety programs throughout the state and to recommend opportunities for bicycle-pedestrian facilities for proposed highway improvements. The Bicycle and Pedestrian Coordinator will also act as secretariat for the Kentucky Bicycle and Bikeway Commission to provide assistance to the general public, municipal governments, and other state agencies in the planning and development of bicycle and pedestrian facilities and programs.

The Bicycle and Pedestrian team will coordinate with the Cabinet for Tourism, Arts and Heritage, the Government of Local Development as well as the Cabinet for Health and Family Services to promote pedestrian and bicycle travel as well as recreational trail and Adventure Kentucky programs.

The Office of Local Programs coordinates several programs that support and encourage bicycling and walking as viable forms of transportation. The team will coordinate with them, especially in regards to Safe Routes to School, Scenic Byways, Transportation Enhancements, Recreational Trails, and CMAQ programs.

PROPOSED ACTIVITIES FOR 2010-2011

Planning

- Assist local governments in the development of local bicycle and pedestrian network facilities and plan using bikeability and walkability audits.
- Participate in the KYTC Strategic Safety Plan update.
- Revise and update the statewide bike tour system and associated maps.
- Review and update the Kentucky Bicycle and Pedestrian Plan. Review and revise the Kentucky Pedestrian and Bicycle Travel Policy, as needed.

CHAPTER 14

Bicycle and Pedestrian Program (continued)

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch

Engineering and Projects

- Answer requests concerning planning and design guidelines regarding pedestrian and bicycle facilities and provide review of bicycle and pedestrian projects and facilities with KYTC's HDO and CO Divisions, ADDs, MPOs, and local government.
- Review the list of proposed resurfacing projects for opportunities to improve biking and walking facilities through restriping and other improvements as part of Maintenance activities.
- Review Share the Road sign requests for applicability and proper system placement.
- Develop in coordination with HDO, Maintenance, Traffic Operations, Design, and Planning Share the Road sign procedures for review, placement, and maintenance.
- Provide the Lane Reconfiguration Guide to KYTC district Maintenance and Traffic staff. Update as need with their input.

Education & Enforcement

- Provide technical training that includes pedestrian and bicycle design to planners, designers, local governments, and other KYTC staff statewide.
- Promote the Complete Streets principals with KYTC staff.
- Provide training to HDO, ADD, MPO and local staffs on how to conduct walkability and bikeability audits.
- Facilitate public education of non-motorized modes of transportation, as opportunity arises.
- Work with local law enforcement to promote education and enforcement of pedestrian and bicycle safety laws.
- Coordinate with the Office of Local Government.

Kentucky Bicycle and Bikeways Commission (KBBC)

- Plan quarterly KBBC meetings
- Prepare minutes from each KBBC meeting.
- Assist KBBC on communications and technical matters
- Assist in facilitating the Paula Nye Education Grant program.

PRODUCTS

- Assist with Local pedestrian and bicycle master plans, as requested
- Updated bicycle and pedestrian brochures and promotional materials
- Updated statewide bicycle tour maps
- Pedestrian and Bicycle technical training course and walkability/bikeability audit training
- Quarterly KBBC meetings

CHAPTER 14

Bicycle and Pedestrian Program (continued)

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch

DISTRIBUTION OF ESTIMATED COST FOR 2010-2011

	2010-2011
PERSONNEL	52,500
OTHER	55,000
TOTAL	107,500

ESTIMATED OUTSOURCING EXPENSES AND PURCHASES

Other

- \$10,000 Pedestrian and bicycle training course instructor
- \$10,000 for Kentucky Bicycle and Bikeway Commission meetings.
- \$7,500 for Bicycle and Pedestrian Brochures and Bicycle Route Tour Guides
- \$10,000 for Bicycle and Pedestrian Promotional Items (bike lights, reflectors, pedometers)
- \$10,000 Other Operational Cost

For items such as travel, mileage, equipment and other cost directly associated to the completion of this work chapter

CHAPTER 15

Highway Safety Improvement Program

RESPONSIBLE UNIT

Division of Traffic Operations
Traffic Engineering Branch
Highway Safety Improvement Program Team

PURPOSE AND SCOPE

The Highway Safety Improvement Program (HSIP) Team evaluates, develops, and implements safety improvements on all roadways. It enhances and continues to update an evaluation process for prioritizing projects for consideration for inclusion in the Highway Safety improvement Program. It also conducts Road Safety Audit Reviews performing the necessary levels of evaluation to identify and develop a conceptual purpose and need statement of safety issues needs. It identifies and evaluates alternatives, generates project cost estimates and recommends phasing priorities where appropriate. The team oversees outsourced activities and works with the other Division and Agencies as needed to complete necessary tasks.

PROPOSED ACTIVITIES FOR 2010-2011

- Continue to develop and update procedures for evaluating safety needs.
- Conduct Roadway Safety Audit Reviews.
- Respond to inquiries about safety issues.
- Identify, evaluate and prioritize safety needs through data analysis and public involvement.
- Evaluate identified needs District wide/Statewide to assist in prioritizing projects for programming in the Highway Safety Improvement Program.

PRODUCTS

- Crash Analysis
- Road Safety Audit Reviews
- Alternatives Studies
- Feasibility Studies
- Special Studies
- Environmental Studies
- Utility Studies
- Project Estimates
- Priorities for Highway Safety Improvement Program

CHAPTER 15**Highway Safety Improvement Program (continued)****RESPONSIBLE UNIT**

Division of Traffic Operation
Traffic Engineering Branch
Highway Safety Improvement Program Team

DISTRIBUTION OF ESTIMATED COST FOR 2010-2011

	2010-2011
PERSONNEL	300,000
OTHER	
TOTAL	300,000

ESTIMATED OUTSOURCING EXPENSES AND PURCHASES

Provide \$25,000 to each of 12 Districts to administer the Highway Safety Improvement Program (HSIP), including planning, implementation, evaluation, and reporting.