

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



**ANNUAL PERFORMANCE AND
EXPENDITURE REPORT
FOR
FISCAL YEAR 2010 ANNUAL WORK PROGRAM
PROJECT SP 0010 (001)
JUNE 16, 2009 THROUGH JUNE 15, 2010**

SEPTEMBER 2010

Introduction

The Annual Performance and Expenditure Report is required under 23 CFR 420.117. This document outlines the transportation planning activities conducted by the Kentucky Transportation Cabinet (KYTC) under Planning (Part I) of the SPR work program for the period of June 16, 2009 through June 15, 2010 (Fiscal Year 2010).

Many issues faced the Division of Planning during the period of this work program. Restaffing because of staff promotions to other division in the past year took place while the workload greatly increased. Many analyses, studies, and traffic forecasts were initiated during the past year to support the KYTC lettings. The Division continued to work to increase our utilization of our roadway data management software, Highways by EXOR. Improvements to the quality of the data were made through collection efforts with our Area Development District (ADD) partners, and efficiencies in this program resulted in our ability to collect updated data quicker than was previously expected. Planning continued work with our ADD partners to maintain the digital base map of roadways and utilize that information to create visual representations of the state highway systems for use by KYTC, other agencies, and the general public. The Division continued efforts at intermodal planning and completed an update of the Statewide Transportation Plan. The Division made great efforts to aid the Cabinet and our MPO partners in making sure our required documents and processes were compliant with SAFETEA-LU and the associated revised regulations promulgated in 23 CFR 450. We worked closely with the Office of Special Programs in getting CMAQ, TE, and Safe Routes to School projects into the MPO Transportation Improvement Programs so funding could be authorized.

All these activities occurred while the Division of Planning continued to collect necessary data, manage and report the data as required, respond for requests for data both within and outside the Cabinet, forecast future transportation demands, plan for the transportation needs within the Commonwealth, coordinate with our rural and metropolitan planning partners, address air quality concerns, support project selection for the Six-Year Highway Plan and Statewide Transportation Improvement Program, and address other State and Federal requirements.

Attached are accomplishments for each chapter of the FY 2010 Work Program. Expenditures are summarized at the end of the document showing the initial budget, final budget, expenditures, encumbered (remaining to be spent) monies, and unspent funds.

CHAPTER 1

SPR Work Program

RESPONSIBLE UNIT

Division 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 and to oversee and manage requests from external sources for maps and other data information.

PROPOSED ACTIVITIES FOR 2009-2010

- Prepare correspondence, reports, agreements, etc. for Division activities directly related to the SPR Planning Work Program. The Customer Service Branch created well over 500 pieces of correspondence in the form of memos and letters. Almost all of which were related to processing contracts, MOAs, letter agreements and other activities related to the SPR Work Program.
- Prepare all registrations and forms necessary for various training directly related to accomplishing the goals of the SPR Planning Work Program. The Customer Service Branch created 14 requests for authorization to travel out of state, nearly all for SPR related training. The branch processed 70 travel reimbursements, about half for training and half for other SPR related duties such as HIS, Regional and Statewide Planning, and MPO activities.
- Prepare contracts, letter agreements, purchase requests, etc. for the Division directly related to the SPR Planning Work Program. The Customer Service Branch processed about 115 contracts and modifications during FY 2010. This activity included, but was not limited to all annual UPWP contracts with MPOs, all annual Regional Planning Contracts with ADDs, all annual ferry boat operation contracts.
- Process payments against contracts awarded by the Division directly related to the SPR Planning Work Program. The Customer Service Branch processed over 500 payment requests during fiscal year 2010, nearly all were against the contracts mentioned above. Additionally over 500 utility payments were process for ATR count stations.
- Coordinate and prepare the annual SPR Planning Work Program and the annual SPR Planning Work Program and Expenditures Report. The annual expense report is attached.
- Track budgets and annual SPR Planning Work Program Expenditures. 12 Monthly expenditure reports were created and delivered to all branches in Central Office Division of Planning and to all KYTC District Planners during FY 2010. The expenditure reports listed all expenditure related activity for each chapter separated by Central Office and District.

CHAPTER 1

SPR Work Program (continued)

RESPONSIBLE UNITDivision of Planning
Customer Service Branch**PRODUCTS**

The Internal Customer Service Team will coordinate and prepare the annual SPR Planning Work Program and the annual SPR Planning Work Program and Expenditures Report. This team will also prepare all contracts, letter agreements, and purchase requests directly relating to the SPR Work Program. They will process all payments against contracts awarded by the Division directly related to the SPR Work Program. The External Customer Service Team will also focus on customers external to the Division for cartographic products, statistical reports, and responses to various data requests including responding to requests from the Division's web page. This team is responsible for providing maps upon request to other divisions within the Cabinet, other state government agencies, or to the general public. In addition, they will also assist in creating and updating digital county, city, and district maps for generating other special application maps displaying HIS information.

DISTRIBUTION OF ESTIMATED COST FOR 2009-2010

	Budgeted	Expended	Percent Expended
PERSONNEL	\$58,500	\$43,757	75%
OTHER			
TOTAL	\$58,500	\$43,757	75%

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. This is particularly essential to the Cabinet's programs as more efficient and detailed technical analyses and assistance are required.

PROPOSED ACTIVITIES FOR 2009-2010

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.

Training for 2009-2010 included conferences/workshops or like training:

- ArcGIS I and ArcGIS II
- Kentucky GIS Conference
- Highway Information System Conference
- Highway Performance Monitoring System
- EXOR Conference
- ITTS Committee Meeting
- Mississippi Valley Freight Research meetings and Annual Conference
- Partnering Conference 2010
- Advanced GIS Training
- Training Development for Work Zone Traffic Management
- Lifesavers Conference
- Kentucky American Planning Association Fall Conference
- NEPA Air Quality Analyses for Highways Webinar
- Mobile Source Air Toxics (MSATs) Webinar
- Diesel Retrofit Technologies – Availability, Performance, and Cost Webinar
- Diesel Retrofit 101 – A Cost Effective Emissions Reduction Strategy Webinar
- Performance Measures Webinar
- NATMEC Training
- TRADAS
- ESRI
- GIST Conference (Asset Management)
- Highway Capacity Analysis

CHAPTER 2

Personnel Training (continued)

RESPONSIBLE UNIT

Division of Planning

PROPOSED ACTIVITIES FOR 2009-2010 (continued)

- Public Involvement Plan Development
- Environmental Justice Webinar
- Transportation Planning
- MOVES
- Climate Change/Livability/Air Quality Conference
- Introduction to Transportation Conformity
- National Freight Conference
- Modeling Conferences and Training
- TransCAD Training
- KBBC Conferences

PRODUCTS

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

DISTRIBUTION OF ESTIMATED COST FOR 2009-2010

	Budgeted	Expended	Percentage Expended
PERSONNEL	\$298,800	\$105,225	35%
OTHER	\$5,000	\$15,672	313%
TOTAL	\$303,800	120,897	40%

Other

- Other Operational Cost \$5,000
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, 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 and state-maintained local roads. An adequate program of continuous traffic counting stations (ATRs) provides the basis for factoring short-term counts. Vehicle classification data will be assigned, processed, and made available to Cabinet staff for analytical and forecasting purposes.

PROPOSED ACTIVITIES FOR 2009-2010

- Maintain, update, analyze, provide quality control and assurance of data, and make available data from more than 13,500 traffic count stations. **100 % Completed**
- Work with the Highway District Offices to perform approximately 5,900 regularly scheduled short-duration portable machine counts yearly which include one-third of all short-duration traffic count stations. **100% Completed. Estimate of needed counts was a bit high. Actual number was approximately 5,200**
- In accordance with the Traffic Monitoring Guide, collect and process vehicle classification data for approximately 1,500 stations, which is 25-30% of all traffic count stations statewide. **Completed approximately 900 classification counts which account for 25-30% of state maintained and non-state maintained functionally classified arterials and collectors as required by TMG.**
- Review, assign, process, analyze, and distribute data for approximately 400 special count stations that are requested by the highway districts and other divisions. **Completed all special counts. Estimate of needed counts was high. Actual number was approximately 100.**
- Collect volume and classification data on approximately 200 interstate stations by C.O. staff. **100% Completed**
- 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 and submit 48 hours of WIM data at ten portable WIM stations. Periodically calibrate and assess equipment for adjustments in order to obtain quality data. **Readied 5 WIM stations for data collection (18% of total, 100% of fiscal year 2010 goal).**
- 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. **100% Completed**

CHAPTER 3

Traffic and Equipment Management (continued)

RESPONSIBLE UNIT

Division of Planning
Traffic and Equipment Management Branch

PROPOSED ACTIVITIES FOR 2009-2010 (continued)

- 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. **100 % Completed**
- 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. **Purchased 150 new traffic data recorders.**
- Certify, repair, and maintain approximately 650 traffic data recorders. **100% Completed Purchased \$7,000 of road tube and established a contract to order Piezo sensors as needed.**
- Install, inspect, repair, and maintain 400 permanent vehicle sensor locations. **0% completed Established two loop installation contracts for a total of \$836,442. Work began after July 2010.**
- 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. **100% Completed**
- Provide traffic data for annual FHWA required HPMS report. **100% Completed**
- Review and analyze functionally classified local road data (collected by contractor) to validate formula used to calculate local road DVMT. **100% Completed**
- Track emerging highway projects and produce plans and specifications for new and replacement traffic sensor installations for submittal into construction and pavement rehabilitation contracts. **100 % Complete 80 plans produce for new/replacement installations**
- Update in-house databases to include any new stations or roadway alignment changes. Correct beginning and ending milepoints to better represent traffic generators. **100% Completed**
- Detect, analyze, and adjust volume counts while combining and creating additional stations where necessary. **100% Completed**
- Begin to document the TMS process. **100% Completed**
- 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. **100% Completed**
- Review, analyze, and update data summaries for vehicle weights and calculating Equivalent Single Axle Loads (ESALs). **100% complete for FY 2010 Data files provided to University of Kentucky**
- Investigate, evaluate, and purchase new software to move mainframe vehicle classification and potentially 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. **Software has been purchased and is running in a test environment.**
- Develop annual traffic count technician training program. **Traffic count technician training program held in March, 2010.**

CHAPTER 3

Traffic and Equipment Management (continued)

RESPONSIBLE UNITDivision of Planning
Traffic and Equipment Management Branch**PROPOSED ACTIVITIES FOR 2009-2010 (continued)****Other**

- Completed approximately 2,300 counts in 14 counties to validate local road VMT formula

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

DISTRIBUTION OF ESTIMATED COST FOR 2009-2010

	Budgeted	Expended	Percentage Expended
PERSONNEL	\$2,853,900	\$1,462,435	51%
OTHER	\$580,000	\$218,163	38%
TOTAL	\$3,433,900	\$1,680,598	49%

ESTIMATED OUTSOURCING EXPENSES AND PURCHASES**Outsourcing**

- \$615,000 for Interstate and Arterial contract for Loop and Piezo installation for a Contract. \$1,100,000 was moved from FY 2009 to FY 2010 increasing available funding to \$1,715,000. Two contracts were established encumbering over \$835,000; work began after July 2010; \$0.00 expended as of yearend. Over \$190,000 expended as of September 30, 2010 during FY 2011.
- \$1,000,000 new contract for outsourced traffic counts and sensor installations to be performed by consultant under Statewide Traffic Counting contract. \$298,096 expended in fiscal year 2010, 30% expended—100% fiscal year 2010 objects accomplished.
- \$50,000 for Weigh-In-Motion (WIM) data compilation to be performed by UK. WIM studies were started in FY2010, no billings received in FY 2010, 0% complete

CHAPTER 3

Traffic and Equipment Management (continued)

RESPONSIBLE UNIT

Division of Planning
Traffic and Equipment Management Branch

ESTIMATED OUTSOURCING EXPENSES AND PURCHASES (continued)

Other

- \$400,000 for purchase of new Automatic Traffic Data Recorders. Contract was established to allow the purchases as needed. Orders placed, approximately 50% received, no billings during FY 2010.
- \$100,000 for Piezos and Road Tube Contract to purchase Piezo sensors as needed was established in FY 2010, no orders placed in 2010. \$7,000 road tube purchase in FY 2010, 7% expended. Purchased enough items to meet 100% of FY 2010 needs.
- \$80,000 Other Operational Cost
For items such as travel, mileage, equipment and other cost directly associated to the completion of this work chapter. Total cost to other operations expenses is over \$151,400 for fiscal year 2010, representing 159% of project budget. This item was under budgeted for FY 2010

CHAPTER 4

Roadway Systems

RESPONSIBLE UNIT

Division of Planning
Transportation Systems Branch

PURPOSE AND SCOPE

The 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. They work with Highway District Office Planning and Central Office Data Management staffs 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.

PROPOSED ACTIVITIES FOR 2009-2010

- Track roadway construction or revision projects to identify changes in roadways and their affect on roadway systems. **Tracked 45 weeks of Project Authorizations and 14 bid lettings for this fiscal year.**
- Adapt project design plans and use GIS software to generate maps for resolving issues of roadway system and ownership designations and to assist Data Management in their entry of roadway revisions. **Created 78 maps to request construction and ownership status information from the Highway Districts and others.**
- Coordinate the two-way flow of information between the Highway District planning staffs and Central Office Planning and Data Management staffs regarding roadway construction and ownership status. **Maintained and updated the project tracking database as information was obtained from the Highway District or Data Management staffs so that information was available to all. Designated Systems Branch contact person for each District began attending District Project Review meetings to obtain additional relevant project information.**
- Review required SPRS revisions for any modifications made necessary to other systems such as functional classification, National Highway System, National Truck Network, etc. Provide this information to the Data Management branch. **Many emails between Systems Branch and Data Management Branch regarding system information.**
- Generate official documentation recommending appropriate SPRS revisions to the Cabinet Secretary for approval. **Official Orders processed as necessary.**
- Ensure the SPRS reflects roadways of significance, and matches the functional classification system, and the electronic base map coverage. **Discovered and processed changes resulting from roadway data collection and roadway system data reviews.**
- Compile data to provide ton-mile statistics to the Governor's Office for Local Development for coal transported on Kentucky Highways as required by statute. **Ton-mile statistics transmitted to DLG August 2009**
- Publish Kentucky's Official Coal Haul Highway System Report as required by statute. **Annual Coal Haul Highway System report published to web page August 2009**

CHAPTER 4

Roadway Systems (continued)

RESPONSIBLE UNIT

Division of Planning
Transportation Systems Branch

PROPOSED ACTIVITIES FOR 2009-2010 (continued)

- Provide the Division of Maintenance information for their review. Update the “Extended Weight Coal Haul Road System”. Produce the Official Order for approval of the updated Extended Weight system. Bridges on proposed Extended Weight system provided to Maintenance September 2009; Annual Official Order signed and distributed December 2009.

Chapter 5 General Comments: Schedules were met for all tasks completed

PRODUCTS

- Official Order Changes to the State Primary Road System
Task 100% completed:
Over 130 Official Orders processed and distributed
Discovered and processed changes resulting from roadway data collection and roadway system data reviews
- State Primary Road System Official Order Listings and Functional Classification Reports
Task 100% completed:
Updated each county State Primary System Official Order Listing document when each Official Order was processed (at least 130 times)
- Quarterly Report of State Primary Road System Mileage
Task 100% completed:
Made a decision not to publish this on the web unless or until someone requests the information
- GIS map files incorporating project design files for decision-making and use by other Branches
Task 100% completed:
Incorporated project design files into GIS map documents to create decision-making maps for 78 projects
Regularly communicated with Data Management Branch on all information obtained for input into HIS for HPMS reporting
- Coal haul statistics and Coal Haul System Report with associated maps
Task 100% completed:
Processed 800 reported routes on which coal was trucked
Produced 32 Coal Haul System County Maps and Statewide routes map
Produced State Coal Haul System GIS shapefiles
Published Annual Coal Haul System Report to web page in August 2009
Ton-miles information provided to Dept for Local Governments August 2009
Local road coal haul data provided to KYTC Accounts September 2009
Annual Extended Weight Official Order produced in December 2009

CHAPTER 4

Roadway Systems (continued)

RESPONSIBLE UNITDivision of Planning
Transportation Systems Branch**PRODUCTS (continued)**

- National Truck Network (NN) modifications as needed
Task 100% completed:
Requested & received approval from FHWA to modify NN in Owensboro
Processed OOs to add Pike US119 and Allen/Warren US 231 to the Kentucky State-designated Truck Network.

Additional Products: Prepared and submitted 9 applications for revisions to US-numbered routes to AASHTO Special Committee on US Rte Numbering for the Spring 2010 meeting. (There were no submissions for the Fall 2009 meeting.)

DISTRIBUTION OF ESTIMATED COST FOR 2009-2010

	Budgeted	Expended	Percentage Expended
PERSONNEL	\$718,600	\$598,290	83%
OTHER	\$5,000	\$6,629	133%
TOTAL	\$723,600	\$604,919	84%

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 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 2009-2010

- Provide electronic mapping for all city, county, district, state, and special-purpose cartographic products. County maps were updated 157 times, separate maps for SPRS and Functional Class and updated on the internet. City maps were updated 114 times with separate maps for SPRS and Functional Class and updated on the internet. District maps in SPRS and Functional Class format were updated twice and updated on the internet. National Highway System and National Truck Network maps updated on paper and on the internet.
- Maintain and publish electronic formats of cartographic products for display on the Internet. Updated regularly – see above and below.
- Update the Official State Highway Map electronic files and accomplish necessary printing. Monitor inventory at all locations and coordinate additional deliveries as needed. Updated the Official State Highway Map and created new Bluegrass Area map inset for World Equestrian Games event in 2010. Coordinated with Division of Maintenance, Dept. of Tourism, statewide purchased and map publisher to have approximately one million copies printed, distributed to 16 locations supplies replenished as necessary. Electronic file was updated on the internet. Prepared and printed 4 updated location maps (12 total prints) for posting in rest areas and welcome centers.
- Create reports and exhibits for various Division projects and studies to assist transportation decision-makers in their roles. Created and updated map of proposed I-66 and I-69 and additional map of I-69 in Western Kentucky. Provided map and county listing for annual KYTC statutory certification of counties for Kentucky Rural Economic Development Act. Provided Small Urban Area Study series of 5 maps each for Lawrenceburg and Corbin. Provided Unscheduled Projects List map for Northern Kentucky area and letter size map of Ashland Urban Area. Updated GIS files and statewide map of rest areas and welcome centers. Mapped Wise County, Va. Roads for planning study of KY 932 connector to US 23. Provided bicycle maps for presentation to 4 counties. Created bicycle tour strip maps for Bluegrass Tour, etc. (35 maps) and map of new Winery Tour. Updated 41 county/city traffic count maps plus the traffic count maps for Louisville, Lexington and Northern Kentucky and made 20 special county maps showing traffic count stations. Produced state congestion VSF maps and posters. Created local bridge location maps for the Louisville, Lexington and Northern Kentucky areas. Developed county road reference maps to assist ADDs in fulfilling GIS contract. Produced 3 counties and their cities. Produced map depicting population and per capita income for each county.

CHAPTER 5

Cartography (continued)

RESPONSIBLE UNIT

Division of Planning
Transportation Systems Branch

PROPOSED ACTIVITIES FOR 2009-2010 (continued)

- Provide mapping and graphic assistance to other Divisions and Departments as requested. Scenic Byways depicted on four sectional maps for a grant application. Created map of state with 25 mile radius around State Resort Parks shown.
- Develop and provide to outside entities digital maps as requested. Map for Frankfort Regional Medical Center for Medicaid application. Maps of Mud Creek, Floyd County area for Atty. General's Office. Map of asphalt and gravel plant locations in D3 and D4 for Atty. General's Office. Maps of areas for naming studies for COGNA. Map of Laurel County for a quilt promotion.

PRODUCTS

- Official Highway Map
Task 100% completed:
Developed, updated Official Highway Map and printed 1 million copies
Plain Version large size official highway map for print and published to internet
Plain Version large size official highway map with Mileage chart
District Version of Official Highway Map
Plain, District Version of Official Highway Map
Created new Bluegrass inset for Highway Map (for World Equestrian Games)
Prepared and printed 4 updated location maps (12 total prints) for posting in rest areas and welcome centers
- State Primary Road System Maps
Task 100% completed:
Updated county maps 157 times
Updated city maps 114 times
Updated highway district maps twice
- Functional Classification Maps
Task 100% completed:
See above
- Other Highway Data Maps (i.e., NHS, NN, etc. maps)
Task 100% completed:
Updated National Highway System map
Updated National Truck Network (NN) map following OOs

CHAPTER 5

Cartography (continued)

RESPONSIBLE UNIT

Division of Planning
Transportation Systems Branch

PRODUCTS (continued)

- Cabinet and Planning Project Exhibit Maps/Displays
Task 100% completed:
Corbin Small Urban Area Study Maps
Lawrenceburg Small Urban Area Study Maps
Mapped Wise County, Va. Roads for planning study of KY 932 connector to US 23
Map of proposed I-66 and I-69 and additional map of I-69 in Western Kentucky.
Provided Unscheduled Projects List map for Northern Kentucky area and letter size map of Ashland Urban Area.
Provided bicycle maps for presentation to 4 counties.
Created bicycle tour strip maps for Bluegrass Tour, etc. (35 maps) and map of new Winery Tour.
Updated photos on Legislator Maps as required by elections (3 times)
Created map of state with 25 mile radius around State Resort Parks shown.
- GIS Analyses of various data for transportation decision-making
Task 100% completed as requested: (See notes above)
Updated GIS file and statewide map of rest areas and welcome centers
Updated GIS file of CVE locations
Provided map and county listing for annual KYTC statutory certification of counties for Kentucky Rural Economic Development Act.
Produced state congestion VSF maps and posters.
Statewide map showing population and per capita income for each county
- General and special purpose maps as requested by other agencies
Task 100% completed as requested:
Map for Frankfort Regional Medical Center for Medicaid application
Maps of Mud Creek, Floyd County area for Atty. General's Office.
Map of asphalt and gravel plant locations in D3 and D4 for Atty. General's Office
Maps of areas for naming studies for Geographic Naming Assoc in Kentucky
Map of Laurel County for a quilt promotion

Other mapping products not in original work program:

- Updated 41 county/city traffic count maps plus the traffic county maps for Louisville, Lexington and Northern Kentucky and made 20 special county maps showing traffic count stations.
- Created local bridge location maps for the Louisville, Lexington and Northern Kentucky areas.
- Developed county road reference maps to assist ADDs in fulfilling GIS contract. Produced 3 counties and their cities.

CHAPTER 5

Cartography (continued)

RESPONSIBLE UNIT

Division of Planning
Transportation Systems Branch

ESTIMATED OUTSOURCING EXPENSES AND PURCHASES

DISTRIBUTION OF ESTIMATED COST FOR 2009-2010

	Budgeted	Expended	Percentage Expended
PERSONNEL	\$463,600	\$288,124	62%
OTHER	\$105,000	\$61,101	58%
TOTAL	\$568,600	\$349,225	61%

Outsourcing

- \$150,000 for Technical Assistance program with UK to provide Interns to help with various SPR program items. **100% Complete \$60,318 expended in fiscal year 2010**
- \$50,000 for highway map outsourced production assistance. **Not needed, \$0.00 expended.**

Other

- \$100,000 for Official Highway Map Publication. **Complete for fiscal year 2010. Additional printing may be necessary before calendar year-end. \$78,350 expended.**
- \$5,000 Other Operational Cost
For items such as travel, mileage, equipment and other cost directly associated to the completion of this work chapter. **\$490 expended less than 1% of budget.**

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 2009-2010

- 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. **Continuing and in progress. 100% complete for fiscal year 2010**
- Work with OIT to assist with database upgrades that include links, functionality, and data exchange with other division databases. **Have accomplished the link between Mandli database and HIS for updating and refreshing mile points on the pictures. Fiscal year 2010 objectives 100% complete.**
- Assist with implementation of new Traffic System database including links, functionality, and data exchange between HIS and the new database. **Still assisting and testing still in progress. Fiscal year 2010 objectives 100% complete.**
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. **Have accomplished the link between Mandli database and HIS for updating and refreshing mile points on the pictures. Fiscal year 2010 objectives 100% complete.**
- Assist with cabinetwide asset management data collection and data dissemination. **Mandli database now recognizes the HIS routes and mile points for data extraction purposes. Fiscal year 2010 objectives 100% complete.**
- Continue to develop processes and procedures to review, edit, and update Cabinet's base map and HIS database. **Still in progress, many meetings to discuss data modeling and dual network of data storage. Fiscal year 2010 objectives 100% complete.**
- Assist with testing, training, report migration, and enhancements with the HIS. **Still assisting, working with TED branch in OIT for reporting and mapping HIS data over internet, Met with districts to discuss reporting needs. Fiscal year 2010 objectives 100% complete.**

CHAPTER 6

Highway Information System (continued)

RESPONSIBLE UNIT

Division of Planning
Data Management Branch

PROPOSED ACTIVITIES FOR 2009-2010 (continued)

- Assist in the development and maintenance of a Cabinet GIS and maintain database network for Kentucky's public highway system. **Many updates of the GIS and data in HIS over the past year**
- 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. **100% Completed. Statewide local road changes - 120 Counties processed 22,120 Total Change Types to HIS 144 New Alignments or Bridge Replacements Processed**
- Improve and update roadway characteristic, HPMS, Performance Measure, and analysis data through ADD data collection project. **100% Completed 59 counties completed and 4,450 sections reviewed**
- 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. **Successful submittal in June 2010 of both HPMS submittal and Certified mileage. Fewest number of comments yet. 100% Complete**
- Utilize HPMS to update Rating Indices, Capacity, and Volume/Service Flow ratio in the HIS database. **Completed and delivered in October 09 100% complete**
- Use HIS to measure highway system performance and assist with analyses of the Unscheduled Projects List. **Completed and delivered in October 09 100% complete**
- Maintain currency of HPMS software and perform changes required by federal legislation, regulations, policies, and/or guidelines, as needed to the HPMS. **Attended and participated in many webinars of the course of the fiscal year.**
- Investigate results of HPMS each year and analyze changes in processes to improve output of report. **Complete review accomplished considering more data collections and updating many data items**
- Assist in processing and reporting of the FHWA 534 and 536 reports. **534 report completed. The biannual 536 report has been requested and scheduled to complete by the end of 2010**

PRODUCTS

- Routines to extract better road information from the GPS files (i.e. vertical grade, horizontal curve). **New tool purchased (ET Surface) to help with Grade calculations**
- Queries and routines for quality control of the database concerning asset items and road information **QA/QC report updated and new functionality added**
- Database and GIS application troubleshooting when errors take place **Weekly checks took place and adjustments made when appropriate**
- Database and GIS upgrades **Started testing an upgrade package, plan to be complete in 2011. Fiscal year 2010 objects 100% complete.**

CHAPTER 6

Highway Information System (continued)

RESPONSIBLE UNITDivision of Planning
Data Management Branch**PRODUCTS (continued)**

- Other agency information loaded to HIS database **Photovan pictures being snapped and loaded for public consumption through OIT developed viewer.**
- New roadway centerlines obtained through GPS technology and CAD design files and updates to both the GIS layers and HIS database. **22,210 local road changes and 144 new state road alignments. 100% complete for 2010**
- New roadway inventory either through field collection or extracted from CAD design files to update the GIS layers and HIS database. **59 counties and 4,450 sections completed**
- New roadway inventory extracted through photo van software. **Still in test mode.**
- Existing roadway characteristic inventory QC checks from photo van pictures. **Still in test mode.**
- Transportation Enterprise database updates for cabinetwide consumption of data. **Weekly exports of all HIS data to the Transportation Enterprise Database (TED)**
- Cabinetwide Asset Management updates and route locations to update other divisions. **Weekly exports to TED, PONTIS, eMARS, OMS, PMS, et. al.**
- HPMS 534 and 536 Reports **534 report completed and submitted, 536 report is semi-annual. 100% complete for fiscal year 2010.**
- HPMS submittal **Completed and submitted**
- Reports created concerning information about transportation network stored in HIS database. **Hundreds of ad hoc reports created.**
- Provide Certification of Public Road Mileage by June 1 **Completed and submitted**

DISTRIBUTION OF ESTIMATED COST FOR 2009-2010

	Budgeted	Expended	Percentage Expended
PERSONNEL	\$1,411,600	1,293,304	92%
OTHER	\$250,000	133,101	53%
TOTAL	\$1,661,600	1,426,405	86%

ESTIMATED OUTSOURCING EXPENSES AND PURCHASES**Outsourcing**

- \$50,000 to outsource for GPS maintenance **Expended \$45,958, 92% of budgeted amount.**

CHAPTER 6

Highway Information System (continued)

RESPONSIBLE UNIT

Division of Planning
Data Management Branch

Outsourcing (continued)

- \$175,000 to outsource for Roadway Attribute Data Collection to several of the 15 ADD's, with contracts less than \$100,000 for each. **An additional \$250,000 was added to this budgeted amount in December 2009 for a total budget of \$350,000. Total \$235,559 expended 67% of the total budgeted amount.**
- 200,000 Asset Management & Support through IT **expended \$147,833, 74% for FY 2010.**
- \$100,000 to outsource for Asset Management Data Collection to several of the 15 ADD's, with contracts less than \$100,000 for each. **Added \$51,400 to the budget December 2009 for a total budgeted amount of 151,400. Total expenditures \$147,427 97% of the budgeted amount.**
- \$40,000 to outsource for assistance in GPS alignments and road inventory to several of the 15 ADD's, with contracts less than \$100,000 for each. **\$0.00 expended, not needed.**

ESTIMATED OUTSOURCING EXPENSES AND PURCHASES

Other

- \$150,000 for EXOR eCredits **\$120,112 expended 80% of budgeted amount.**
- \$100,000 Other Operational Cost
For items such as travel, mileage, equipment and other cost directly associated to the completion of this work chapter. **\$10,629 expended, almost 11% of budgeted amount.**

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 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 2009-2010

- Continue to develop and update policy and procedures for evaluating corridor level needs.
This task is on-going. We continue to evaluate the policy and procedures for each study, placing emphasis on practical solutions.
- Conduct corridor, system, and small urban area studies.
Table 1: Summarization of Work Plan Accomplishments in Corridor Studies contains a list of studies active in FY 2010 with budget and other information as appropriate.
- Respond to inquiries about corridor planning issues.
All inquiries to planning studies are responded to in a timely manner. Recently completed studies are available online for the public to view.
- Identify, evaluate and prioritize corridor, system, and small urban area needs through data analysis and public involvement.
Corridor and Small Urban Area Studies involve the identification, evaluation, and prioritization of recommended roadway improvements through data analysis and involvement from the public, and/or local officials/stakeholders advisory committees.
- Oversee outsourced activities.
Several of our studies were done by consultants with someone from the district or from the Division of Planning acting as the Project Manager who oversees the study. We currently have five active planning studies that are outsourced to a consultant.
- Evaluate identified needs statewide to assist in prioritizing projects for programming in the Highway Plan.
PIFs are made for long-term needs identified through our corridor and Small Urban Area studies. Our studies also provide cost estimates to be used in programming future projects. This process is on- going.

CHAPTER 7

Strategic Corridor Planning (continued)

RESPONSIBLE UNIT

Division of Planning
 Strategic Planning Branch
 Strategic Corridor Planning Team

PRODUCTS (Please see attached Table for details)

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

• Programming Studies

Franklin	US 421 Franklin	Programming Study	05-8109.00
Bell	KY 441	Programming study	11-110.00

Still in progress. See attached Table for details.

• Pre-Design Scoping Studies

• Alternatives Studies

Henderson	US 41A Henderson	Alternative Study	02-140.00
Mercer	Harrodsburg Bypass	Alternative Study	07-8344.00
Boyd	Ashland / US 60 Connector	Alternative Study	09-129.00
Rowan, Elliott	KY 32	Alternative Study	09-192.00
Wolfe	KY 715	Alternative Study	10-8200.00
Bell, Harlan	US 119	Alternative Study	11-8511.00
Wolfe, Morgan,	Mountain Parkway	Alternative Study	N/A

All of these are 100 % complete.

• Small Urban Area Studies

Rowan	Morehead	Small Urban Area Study	Close to completion
Knox, Whitley	Corbin	Small Urban Area Study	In Progress
Harrison	Cynthiana	Small Urban Area Study	Complete in June 2009
Grayson	Leitchfield	Small Urban Area Study	Close to completion
Shelby	Shelbyville	Small Urban Area Study	On Hold due to construction of Bypass
Pulaski	Somerset	Small Urban Area Study	Complete May 2010

• Interchange Justification Studies

Warren	Elrod Road Natcher Parkway Interchange Alt. Study	3-130.00	Complete December 2009
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Jefferson	I-264 / US 42 Interchange Scoping Study	05-390.00
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Oldham	I-71 Interchange at LaGrange
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Close to completion

• Feasibility Studies

Jefferson	I-265/Rehl Road Interchange Feasibility study	Complete December 2009
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CHAPTER 7

Strategic Corridor Planning (continued)

RESPONSIBLE UNIT

Division of Planning
Strategic Planning Branch
Strategic Corridor Planning Team

PRODUCTS (continued)

Eleven studies were completed during the period of June 16, 2009 to June 16, 2010. One was done in-house and ten were completed by consultants. The studies completed are as follows:

- US 25 Alternatives Study, Grant County – 06-112.00 – July 2009
- US 27 / I-75 Connector Alternatives Study, Jessamine, Madison, and Fayette Counties – Item 07-249.00 – July 2009
- Lawrenceburg Small Urban Area Study, Anderson County – Item N/A – October 2009 (SPR)
- Elrod Road/Natcher Parkway Interchange Feasibility Study, Warren County – Item 03-130.00 – December 2009
- KY 32 Alternatives Study, Rowan and Elliott Counties – Item 09-192.00 – December 2009
- I-265/Rehl Road Interchange Feasibility Study, Jefferson County – Item N/A – December 2009
- Ashland/US 60 Connector Alternatives Study, Boyd County – Item 09-129.00 – December 2009
- KY 715 Alternatives Study, Wolfe County – 10-8200.00 – January 2010
- US 41A Alternatives Study, Henderson County – Item 02-140.00 – January 2010
- US 119 Alternatives Study, Bell and Harlan Counties – Item 11-8511.00 – April 2010
- Somerset Small Urban Area Study, Pulaski County – Item N/A – May 2010 (SPR)

The Lawrenceburg Small Urban Area Study was managed and all work was done by KYTC Central Office and District staff. The other completed studies were done by consultants and managed by District or Central Office Staff.

Many of the current studies are large-scale efforts that have included or will include agency coordination and significant public involvement activities. All of the studies have required or will require coordination with the Highway District Offices and Area Development District Offices to assemble the project team, provide input on study issues, assist with scheduling meetings, and review reports. The Area Development District Offices will also develop Environmental Justice reports for many of the studies.

Those projects listed above followed by (SPR) were funded with SPR Work Program funds. In addition, some SPR funding was used for management, oversight, and review of strategic corridor planning activities.

Summarizing, 26 projects have been worked on during the past year, with 11 being completed, 4 others nearing completion, 10 at some intermediate stage, and 1 other getting started.

- Priorities for Highway Plan Programming

CHAPTER 7

Strategic Corridor Planning (continued)

RESPONSIBLE UNITDivision of Planning
Strategic Planning Branch
Strategic Corridor Planning Team**DISTRIBUTION OF ESTIMATED COST FOR 2009-2010**

	Budgeted	Expended	Percentage Expended
PERSONNEL	\$1,152,100	\$751,281	65%
OTHER	\$5,000	\$6,146	123%
TOTAL	\$1,157,100	\$757,427	65%

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. **Expended \$219,350, representing 31% of the budgeted amount.**

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 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 2009-2010

- Review and update the STP document as needed.
Reviewed STP document and found no changes needed at this time. We will update in accordance with changes expected with regard to the next reauthorization. 100% of FY 2010 objectives completed.
- Develop and implement processes as needed to ensure SAFETEA-LU compliance.
Coordinated with Office of Business and occupational Development on Title VI surveys given to ADDs and MPOs. Attended Environmental Justice Training with ADD, HDO, and MPO Counterparts. Began development of Environmental Justice checklist for use with ADD deliverables 100% of FY 2010 objectives completed.
- Coordinate with other transportation modes, land use, environmental, and other resource agencies. Coordinated with Multimodal Branch in collection of highway related data specific to Freight and Bicycle/Pedestrian issues. 100% of FY 2010 objectives completed.
- Enhance the statewide transportation planning process by including data collection and analysis, public involvement, and coordination. Collected Major Freight Users Inventory including Major Manufacturers and related freight information. Collected Bicycle/Pedestrian contact information. Collected truck parking data for identifying Trucking needs. Collected Park-n-Ride data for identifying carpooling areas. Revised map with pictures to identify personnel and their affiliation with their contact info. (Directory). Released Online Project Identification Form (PIF) application. Develop/distribute Adequacy Ratings and Unscheduled Project Listing (UPL) data and Shapefiles. 100% of FY 2010 objectives completed.
- Identify, evaluate, and prioritize transportation projects through data analysis and public involvement. Released Online Project Identification Form (PIF) application. Designed and released standards and schedule for inputting and revising existing PIF's into new database. Presented Highway Information System data at July 2010 STP for training purposes. Held open lab for PIF training for our Administrative District and Metropolitan Planning Organization Counterparts. Coordinated with Data Management Branch to develop and distribute Adequacy Ratings and Unscheduled Project Listing (UPL) data and Shapefiles 100% of FY 2010 objectives completed.

CHAPTER 8

Statewide Transportation Planning (continued)

RESPONSIBLE UNIT

Division of Planning
Strategic Planning Branch

PROPOSED ACTIVITIES FOR 2009-2010

- Coordinate/implement the conversion of the Project Identification Form/Unscheduled Projects List database to one consolidated database.
Released Online Project Identification Form (PIF) application. Data input is due to be completed by the end of 2010 calendar year. 85% complete.
- Coordinate with other Divisions, Districts, and Agencies and incorporate applicable plans as necessary to ensure SAFETEA-LU compliance.
Coordinated with Area Development Districts (ADD's) for public involvement in the Prioritization Process. Worked with ADD's in completing Environmental Justice Reports and Footprints for use in conjunction with studies across the state. 100% of FY 2010 objectives completed.
- Coordinate and oversee the ADD Regional Transportation Program.
Coordinate with the ADDs continuously throughout the year. (i.e., collecting quarterly reports, invoices, Emars, collecting Work Element deliverables, timeline, next two years of STP meetings, communication with all ADDs and HDOs, etc.) 100% of FY 2010 objectives completed.

PRODUCTS

- Statewide Transportation Plan updates as needed
A review was conducted and no update was found necessary at this time.
- Unscheduled Projects List database
Released online version of combined PIF and UPL information.
- Project Identification Forms conversion to new web based format
Overseeing data entry and revision of existing needs into newly released Online UPL/PIF Application
- Annual Work Programs and Contracts for 15 Area Development Districts
Revised work program for efficiency
Clarified deliverables and their due dates
Completed contract process, starting in March and ending in June, for all 15 ADDs.
- Four Statewide Transportation Planning Meetings
Completed all four meetings – July 15, 2009, Oct. 22, 2009, Jan. 20, 2010, April 15, 2010
- Individual ADD Planner Assessments
Held first Annual Assessment regarding ADD Planners and Statewide Planning Products.
Collected and analyzed feedback regarding time, content, and location of Assessments

CHAPTER 8

Statewide Transportation Planning (continued)

RESPONSIBLE UNITDivision of Planning
Strategic Planning Branch**DISTRIBUTION OF ESTIMATED COST FOR 2009-2010**

	Budgeted	Expended	Percentage Expended
PERSONNEL	\$709,200	\$516,035	73%
OTHER	\$25,000	\$9,601	38%
TOTAL	\$734,200	\$525,363	72%

ESTIMATED OUTSOURCING EXPENSES AND PURCHASES

- \$75,000 to outsource for research or assistance related to Statewide Planning. **\$0.00 expended, 0% complete.**

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.

Chapter 9 General Comments: The MPO Team continued to provide technical assistance to the MPOs to ensure that federal requirements are being addressed through the 3C process. Tasks were completed on schedule.

PROPOSED ACTIVITIES FOR 2009-2010

- Provide technical assistance and review of MPO activities, programs, documents, models and/or tools.
Task completed 100% on schedule. MPO Team provided significant input to MPOs on Recovery Act issues, guidelines for local public agencies, and other issues as they arose throughout the year. MPO Team provided input to travel demand model updates and provided technical direction for consistency in MPO documents.
- Attend technical, policy, and other committee meetings to represent the Cabinet.
Task completed 100% on schedule. MPO Team attended 60 Technical, 48 Policy, and 80 other MPO meetings representing the Kentucky Transportation Cabinet (KYTC).
- Conduct contract management and oversight for federal funds.
Task completed 100% on schedule. MPO Team updated monitoring files and continued a tracking mechanism to ensure oversight requirements are met for federal expenditures. MPO Team successfully passed audit with no significant findings or corrective actions.
- Ensure consistency between local and state plans and programs.
Task completed 100% on schedule. MPO Team provided consistent guidance on development of MPO products and coordinated with other states to ensure minimum federal requirements are being addressed appropriately.
- Coordinate with other transportation modes to obtain input on multimodal issues for the Metropolitan Transportation Plans (MTPs).
Task completed 100% on schedule. MPO Team coordinated with the Office of Transportation Delivery for transit planning and project needs, and with the Modal Branch Bicycle/Pedestrian and Freight coordinators to determine other issues that need to be addressed in MTPs.

CHAPTER 9

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

RESPONSIBLE UNIT

Division of Planning
Strategic Planning Branch
MPO Team

PROPOSED ACTIVITIES FOR 2009-2010 (continued)

- Work with the MPOs and Highway District Offices (HDOs) on Project Identification Forms (PIFs), data collection, and training.
Task completed 100% on schedule. MPO Team worked with the MPOs to meet scheduled deadlines on PIF status and rankings.
- Conduct four regular statewide meetings.
Task completed 100% on schedule. MPO Team met with the MPOs regularly, conducting four statewide joint MPO/Area Development District (ADD)/Highway District Office (HDO) planning meetings including three separate MPO planning meetings.
- Coordinate with the Transportation Management Areas (TMAs) on the programming and tracking of dedicated Federal Statewide Transportation Program (STP) funded projects.
Task completed 100% on schedule. MPO Team coordinated with TMAs to verify that the dedicated STP program was administered appropriately and ensured all Recovery Act funded projects met the applicable deadlines.
- Coordinate with MPOs on air quality issues, analysis, and conformity.
Task completed 100% on schedule. MPO Team coordinated closely with the MPOs on required elements of conformity findings and air quality impacts, and attended regular air quality conference calls for updated air quality related information.

PRODUCTS

- Assistance to agencies in preparing compliant MPO Transportation Improvement Programs (TIPs), MTPs, Participation Plans (PPs), CMP's and the UPWP's
Task completed 100% on schedule. MPO Team assisted in the review and approvals of 2 new MTPs, 3 new TIPs, 14 TIP Amendments, 57 TIP Administrative Modifications, 4 reviews of PPs, 9 Annual Obligations Reports, and 9 Performance and Expenditure Reports.
- MPO Self Certifications (participant)
Task completed 100% on schedule. MPO Team provided review and suggested approvals of 8 Self Certifications with new or updated TIPs.
- Assistance to agencies in preparing compliant MPO UPWPs
Task completed 100% on schedule. MPO Team provided assistance to MPOs in producing nine federally eligible UPWPs.
- MPO UPWP Contracts and administration
Task completed 100% for all nine MPOs on schedule. MPO Team provided oversight for 27 UPWP contracts.

CHAPTER 9Metropolitan Planning Organizations (continued)
(Areas over 50,000 Population)**RESPONSIBLE UNIT**Division of Planning
Strategic Planning Branch**PRODUCTS (continued)**

- MPO dedicated STP fund contracts and administration
Task completed 100% for the four TMAs on schedule. Only OKI, KIPDA, and LFUCG required dedicated STP contracts administered through the MPO Team. MPO Team provided oversight for 19 dedicated STP contracts and 4 other MPO-related contracts as well as additional guidance for Recovery Act dedicated STP projects.
- Four Statewide Transportation Planning Meetings
Task completed 100% on schedule. MPO Team reviewed timely topics and received updates on MPO activities.
- Special Studies
Task completed 100% on schedule. MPO Team provided oversight for 12 special studies.

LPA MANUAL for Local Public Agencies**DISTRIBUTION OF ESTIMATED COST FOR 2009-2010**

	Budgeted	Expended	Percentage Expended
PERSONNEL	\$630,600	\$446,895	71%
OTHER	\$5,000	\$6,508	130%
TOTAL	\$635,600	\$453,403	71%

ESTIMATED OUTSOURCING EXPENSES AND PURCHASES**Outsourcing**

- \$100,000 LPA (Statewide Contract)

Contract for LPA Manual is 70% complete, 100% of fiscal year 2010 objectives were met. The original schedule had a completion date of June 30, 2010. No additional work has been completed since 4/30/10 pending resolution of consistent KYTC staff implementation issues. The KYTC estimates that the guidance document for LPAs will continue work in FY 2011 with more detailed procedures for KYTC staff implementation and oversight of LPA projects and a completion of the LPA Manual document.

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 10

Air Quality Conformity Analysis

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 2009-2010

- Host and/or participate in interagency consultation calls regarding transportation conformity for updates and amendments to MPO plans, TIPs, and STIP.
Hosted and participated in interagency consultation calls regarding transportation conformity for updates and amendments to MPO plans, TIPs, and STIP as needed; Multiple regional calls were held as needed; Agendas consisted of new MTP for Clarksville (7 calls), numerous TIP amendments to the 2008-2011 TIP (amendments 20, 21, 22, 23) for Clarksville (1 call); new TIP for Clarksville (1 call); Ashland IAC approvals completed through email (100% complete)
- Host with FHWA the 2010 Kentucky Regional Air Quality Conference.
Hosted with FHWA the 2010 Kentucky Regional Air Quality Conference with theme of climate change, livability, and air quality. (100% complete)
- Run the current emissions model for ozone and PM_{2.5} regional air quality conformity analyses for Ashland and Christian County areas as well as other newly designated areas.
Worked with the Clarksville IAC and developed air quality related planning assumptions for new metropolitan transportation plan (2010-2035 MTP); Developed MOBILE6.2 input and ran emissions model for MTP; Prepared conformity report for MTP; Worked with FHWA-KY for final conformity approval for MTP (100% complete) Worked with Clarksville IAC and developed short conformity reports as required for several TIP amendments for 2008-2011 TIP (amendments 20, 21, 22, 23) (100% complete) Prepared conformity report for Ashland MTP amendment 1 (100% complete)
- 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.
Read new and proposed regulations; attended EPA and FHWA webinars explaining new and proposed regulations; participated on AASHTO team to critique and comment on regulations (100% complete)
- Facilitate monthly conference calls with federal, state, and local partners to discuss timely air quality regulations and conformity issues.
Hosted and participated in interagency consultation calls regarding PM_{2.5} redesignation requests, pending new ozone standard, proposed new PM_{2.5} hot-spot requirements, and status of MTPs and TIPs across the state. Calls were held more or less monthly; (100% complete)

CHAPTER 10

Air Quality Conformity Analysis (continued)

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch
Air Quality Team

PROPOSED ACTIVITIES FOR 2009-2010 (continued)

- 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.
Sent periodic emails to KYTC staff regarding changes and proposed changes; Updated MPO on air quality issues at MPO meetings (100% complete)
- Provide VMT and speeds to DAQ for their development of the State Implementation Plans (SIPs) for non-attainment and maintenance areas.
Provided VMT and speeds to DAQ for PM2.5 counties (7) for PM2.5 redesignation and SIP budgets (100% complete) Provided VMT and speeds to DAQ for all 120 counties for VISTA program (100% complete) Provided commuter data to DAQ for 34 potential new 8-hour ozone counties (100% complete)
- 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.
Worked with DAQ to provide transportation data and to review budgets for PM2.5 SIP (100% complete)
- Provide support to the Office of Special Programs for CMAQ related issues, as needed.
Advised RJ Corman regarding emissions calculations for Genset Locomotive CMAQ application (100% complete)
Assist District Offices with the preparation of CMAQ applications including emission calculations and documentation.
Provided emissions calculations for D-2 CMAQ project -- intersection improvement at Glass Ave and North Dr (100% complete)
- Manage KTC's work on the research efforts to update the recently developed speed model with 2008 HPMS data.
Worked with KTC to get speed model updated with 2008 HPMS data (100% complete)
- Manage completion of KTC's work on the Travel Time Reliability project including high level correlation between reliability and the number and duration of incidents.
Worked with KTC to complete Travel Time Reliability project (100% complete)
- Maintain a working knowledge of emerging issues and best practices, such as diesel emissions reduction strategies and greenhouse gases.
- *Read literature; attended 19 webinars and two air quality dedicated conferences; participated with Southeast Diesel Collaborative calls and presentations (100% complete)*
- 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.
Completed Clean Diesel applications for funding for Locomotives (CSX) and for Riverports (Hickman and MBB) (100% complete)

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
- Speed and VMT Database Estimation computer program

DISTRIBUTION OF ESTIMATED COST FOR 2009-2010

	Budgeted	Expended	Percentage Expended
PERSONNEL	\$153,800	\$106,691	69%
OTHER	\$20,000	\$0	0%
TOTAL	\$173,800	\$106,691	61%

ESTIMATED OUTSOURCING EXPENSES AND PURCHASES

- \$20,000 Speed and VMT Database research program. \$0.00 expended, 0% complete
- \$30,000 speed model update and Travel Time Reliability project completion \$28,630 expended 95% of budgeted amount. 100% of task was completed.

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 2009-2010

Public Riverports

- Develop an implementation plan based on the Kentucky Riverport Improvement Project.
Kentucky Public Riverports were successful in getting legislation passed that established Water Transportation Advisory Board, Riverport Marketing Assistance Trust Fund, the Riverport Financial Assistance Trust Fund which were suggested in the Kentucky Riverport Improvement Project. However, funding has not been provided to date. (100% Complete)
- Develop Kentucky's guidelines for public riverport applications. Review and approve any public riverport applications received for grants.
No public Riverport applications were received. (0% Complete)
- Plan and host Riverport Annual Meeting in conjunction with Ferryboat Annual Meeting.
At the request of the participants, the Riverport and Ferryboat meetings were held separately. Kentucky Association of Riverports held several smaller meetings coordinating legislation in conjunction with the Legislative Waterways subcommittee meetings. (100% Complete)
- Interface with the public riverports in the state by responding to information requests, and serving as a member of the Kentucky Association of Riverports.
KYTC served as the staff support for the Kentucky Association of Riverports by coordinating all meetings and conference calls held during the year. KYTC staff created map of contact information for the Kentucky Riverport Directors. (100% Complete)
- Actively participate as a member on the AASHTO Standing Committee on Water Transportation (SCOWT).
KYTC representatives participated in regular SCOWT conference calls and participated in the SCOWT Annual Meetings via conference call. (100% Complete)
- Conduct annual on-site visits of active public riverports in the state.
Site visits were conducted at the active Riverports of Jefferson Riverport International, Paducah-McCracken County Riverport Authority, Eddyville Riverport and Industrial Development Authority, Greenup-Boyd County Riverport Authority, Henderson County Riverport Authority, Hickman-Fulton County Riverport Authority, Owensboro Riverport Authority. Developing Riverport site visits were also conducted with Marshall County Riverport Authority, Maysville-Mason County Riverport Authority, Meade County Riverport Authority, and Wickliffe-Ballard County Port Authority. (100% Complete)

CHAPTER 11

Multimodal Freight Transportation (continued)

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch

PROPOSED ACTIVITIES FOR 2009-2010 (continued)

Railroads

- 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.
Worked with all active railroads within the Commonwealth to obtain GIS layers of all railroad track owned within Kentucky. Also obtained Rail Mile Point GIS data for all railroads. In the process of compiling all of the GIS data layers into a single KY railroad layer. (40% Complete). Several instances need to be site verified. Developing Disclaimer language for these areas.)
- Update the 2002 Kentucky Statewide Rail Plan contact information.
Changes to the Kentucky Statewide Rail Plan contact information was made as needed. (100% Complete)
- Participate in various rail studies and research with KYTC involvement.
KYTC representatives participated in field surveys of Kentucky Transportation Center research on highway-rail grade crossing types and longevity. (100% Complete)
- Collect railroad annual reports and rail accident/incident reports as directed in 603 KAR 7:090.
KYTC staff sent letters to all operating railroads within Kentucky requesting annual reports. Rail accident/incident reports are submitted to KYTC by the railroads on a monthly basis. (100% Complete)
- 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.
KYTC staff attended AREMA training in Kansas City. Due to budgetary constraints, KYTC staff was unable to attend the annual SCORT, AREMA, and ASLRRA meetings; however KYTC staff participated in conference calls and webinars whenever available. KYTC staff has been actively involved with Kentucky Operation Lifesaver meetings and serves on its Board of Directors. (100% Complete)
- Monitor, track, and distribute information about railroad line abandonments in Kentucky.
KYTC actively forwards all information received about rail abandonments to the Cabinet for Health and Family Services Health Promotion Branch, Division of Planning Transportation Systems Branch, Kentucky Rails to Trails Council, Department for Local Government, Division of Right of Way & Utilities Rails Section, and the Department of Parks Recreation Division, local government officials, and any other interested parties. (100% Complete)
- Review need to update passenger rail feasibility study
KYTC staff from the Division of Planning and the Office of Transportation Delivery worked together to coordinate the ongoing USDOT study of passenger rail feasibility connecting Atlanta, Nashville and Louisville. (100% Complete)

CHAPTER 11

Multimodal Freight Transportation (continued)

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch

PROPOSED ACTIVITIES FOR 2009-2010 (continued)

Freight

- Provide technical assistance and disseminate information to MPOs, ADDs, and project teams regarding freight movement, planning, and safety.
KYTC regularly reviews industry publications and news articles and forwards relevant information to the MPOs and ADDs. KYTC staff also serves on the Freight Advisory Panels of the Louisville, Lexington, and Northern KY MPOs. KYTC staff regularly attended and presented at Statewide Transportation Planning meetings. (100% Complete)
- Update the truck parking availability information along Kentucky interstates and parkways.
ADD staff did not identify any changes that need to be made to the truck parking availability information along Kentucky interstates and parkways. (100% Complete)
- Participate in regional freight planning efforts.
KYTC staff serves on the Freight Advisory Panels of the Louisville, Lexington, and Northern KY MPOs and as part of the Delta Regional Authority (DRA), Institute for Trade and Transportation Studies (ITTS), and the Mississippi Valley Freight Coalition (MVFC),
- 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.
KYTC staff regularly participates in conference calls for these coalitions and staff attended the MVFC Annual Meeting in Cincinnati, OH; ITTS Annual Meeting in Memphis, TN; and NCFRP Meetings in Irvine, CA. KYTC co-sponsored the MVFC Annual Meeting in Cincinnati and staff helped organize and coordinate the conference. (100% Complete)
- Visit intermodal sites and communicate with rail, water, and road modes to identify freight-related needs and concerns involving highways.
KYTC staff conducted 6 site visit trips throughout the state that included seven state funded ferry operations, two federally funded ferry operations, one privately funded ferry operation, seven operating public Riverports, four developing public Riverports, one Class II railroad, two rail intermodal facilities, two weigh stations, four lock & dam facilities, and four Amtrak stations. (100% Complete)
- Continue developing relationships with Economic Development and Commerce to identify and promote intermodal freight needs.
KYTC staff regularly communicates with Economic Development staff to address improved freight movement. KYTC extended invitation to ED staff to attend ITTS Conference in Memphis, TN. (100% Complete)
- Research, prepare and populate information for FHWA Intermodal Connector Assessment Tool (ICAT).
KYTC staff has worked on the FHWA ICAT and the project is still ongoing. (40% Complete). This is an ongoing project that will take several phases to complete. Phases for FY 2010 were completed which included collecting Major Freight Generators information from the ADDs. Overall project is 40% complete)

CHAPTER 11

Multimodal Freight Transportation (continued)

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch

PROPOSED ACTIVITIES FOR 2009-2010 (continued)

Ferryboats

- Coordinate the Kentucky Ferryboat program.
KYTC staff provides oversight on the operation of 6 state funded ferries and is responsible for all of the contracting and invoicing of these ferries. (100% Complete)
- Share information concerning Ferryboat Discretionary Fund (FBD) Grant program. Review and prioritize applications received. Administer FBD funds. FHWA will be provided all applications for review and approval.
In FY 2009 KYTC had three ARRA FBD applications, all of which were awarded. KYTC staff is currently managing those awards. For the FY 2010 FBD program, KYTC reviewed and prioritized one application, assisted on a joint application with Ohio, and supported a tri-state passenger ferry application. (100% Complete)
- Plan and host the Ferryboat Annual Meeting in conjunction with Riverport Annual Meeting.
At the request of the participants, the Riverport and Ferryboat meetings were held separately. Ferryboat Annual Meeting was held on November 23, 2010. (100% Complete)
- Conduct annual on-site visits of Kentucky Ferryboat Operations.
KYTC staff conducted on-site visits of the state funded Augusta Ferry, Cave in Rock Ferry, Dorena-Hickman Ferry, Valley View Ferry, Reeds Ferry, Rochester Ferry, and Turkey Neck Bend Ferry. Staff also visited the federally funded Green River Ferry and Houchin Ferry. The privately funded Anderson Ferry was also visited. (100% Complete)

PRODUCTS

- Riverport Implementation Plan
The legislation recommended by the Kentucky Riverport Improvement Project was filed in the Legislature and passed. (100% Complete)
- Revised riverport application guidelines.
No Public Riverport applications were received. (100% Complete)
- Updated Statewide Rail Plan contact information
Changes to the Kentucky Statewide Rail Plan contact information was made as needed. (100% Complete)
- Updating railroad GIS database and maps for KYTC purposes
Obtained GIS layers of all railroad track owned within Kentucky. Also obtained Rail Mile Point GIS data for all railroads. (80% Complete. Rail data needs to be site verified in several cases. Disclaimer Statement is being developed for these areas.)
- Truck Parking along Kentucky Interstates and Parkways Study database and map
ADD staff did not identify any changes that need to be made to the truck parking availability information along Kentucky interstates and parkways. (100% Complete)
- Working ferryboat operations
KYTC currently has 6 state funded ferries in operation. (100% Complete)

CHAPTER 11

Multimodal Freight Transportation (continued)

RESPONSIBLE UNITDivision of Planning
Multimodal Programs Branch**PRODUCTS (continued)**

- ICAT documentation
KYTC staff has worked on the FHWA ICAT and the project is still ongoing. (40% Complete. This is an ongoing project that will take several phases to complete. Phases for FY 2010 were completed which included collecting Major Freight Generators information from the ADDs. Overall project is 40% complete)
- Begin updated Passenger Rail Feasibility Study
KYTC staff from the Division of Planning and the Office of Transportation Delivery worked together to coordinate the ongoing USDOT study of passenger rail feasibility connecting Atlanta, Nashville and Louisville. Due to budgetary constraints no additional passenger rail feasibility studies were considered. (100% Complete)
- FBD application prioritization
In FY 2009 KYTC had three ARRA FBD applications, all of which were awarded. KYTC staff is currently managing those awards. For the FY 2010 FBD program, KYTC reviewed and prioritized one application, assisted on a joint application with Ohio, and supported a tri-state passenger ferry application. (100% Complete)
- Annual Waterways meeting
At the request of the participants, the Riverport and Ferryboat meetings were held separately. Ferryboat Annual Meeting was held on November 23, 2010. Kentucky Association of Riverports held several smaller meetings coordinating legislation in conjunction with the Legislative Waterways subcommittee meetings. (100% Complete)
- Annual Railroad report to FRA
No Annual railroad report to FRA is required.

DISTRIBUTION OF ESTIMATED COST FOR 2009-2010

	Budgeted	Expended	Percentage Expended
PERSONNEL	\$122,900	\$77,208	63%
OTHER	\$110,000	\$53,708	49%
TOTAL	\$232,900	\$130,916	56%

CHAPTER 11

Multimodal Freight Transportation (continued)

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch

ESTIMATED OUTSOURCING EXPENSES AND PURCHASES

Other

- \$5,000 Operation Lifesaver
Provided in-kind donation to Kentucky Operation Lifesaver in the form of printing of safety flyers and booklets. Expended \$5,000
- \$5,000 Kentucky Association of Riverports Dues
Dues are pending. \$0.00 expended.
- \$25,000 Mississippi Valley Freight Coalition
Dues paid.
- \$25,000 Institute for Trade and Transportation Studies
Dues paid.
- \$50,000 Other Operational Cost \$5,033 expended, 10% of total budget.
For items such as travel, mileage, equipment and other cost directly associated to the completion of this work chapter.

CHAPTER 12

Congestion/Mobility Management

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch

PURPOSE AND SCOPE

During the normal transportation planning processes, traffic congestion is routinely considered when selecting and prioritizing long range planning projects. Congestion mitigation and smooth traffic flow is important for continuing operation of Kentucky's roadways. 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 2009-2010

Congestion and Mobility Management

- Update and maintain the web-based Kentucky Congestion Mitigation Toolbox.
Added additional references to "Road Diets" and "Ramp Metering" (80% complete – need to add more ramp metering references)
- Investigate the state-of-the-practice travel-time performance measures (for use in the statewide and urban travel demand models) and opportunities to improve the measures used to identify needs and prioritize projects.
Developed travel-time based performance measures of travel time and reliability (100% complete)
- Fund participation in the Texas Transportation Institute's (TTI) annual Urban Mobility Study (Louisville and Cincinnati regions).
Funded participation in the Texas Transportation Institute's (TTI) annual Urban Mobility Study (Louisville and Cincinnati regions) (100% complete)
- Work with TTI staff to develop recommended travel time performance measures for Kentucky. The purpose is to identify congestion problem areas and monitor performance over time.
Continued to work with TTI staff to develop travel time performance measures for Kentucky (80% complete. Final Draft to be completed in FY 2011)
Secured funding and developed RFP for purchasing statewide travel time historical data for determining travel time performance measures statewide (100% complete)
- Maintain a park and ride GIS database of existing assets.
Developed data; still working with IT to provide web access (80% complete. Discussion continuing on appropriate level of information to put on web.)
- Assist local governments in the development of local access management programs as part of their land-use planning processes, when requested.
Assistance provided as requested. (100% complete)
- Provide technical expertise and review regarding access management and land use planning on corridor and intersection plans and designs.
Assistance provided as requested. (100% complete)

CHAPTER 12

Congestion/Mobility Management (continued)

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch

PROPOSED ACTIVITIES FOR 2009-2010 (continued)

- Work with KYTC Division of Traffic to transport signal systems travel time data into GIS format so it can be merged with Planning HIS data as appropriate and share this data with the KYTC districts and appropriate MPOs.
Put current signal data in excel format for planning to use; currently collaborating with traffic to investigate using Bluetooth technology to acquire travel time data for signalized areas (100% complete)
- Work with FHWA-Kentucky and MSA's to development performance measure requirements and associated data requirements for MSA Congestion Management Processes.
Member of Lexington CMP team; working with Lexington CMP team to define CMP corridors (80% complete. Ongoing work to be completed in FY 2011 work program.)
- Work with KYTC management and Finance Cabinet as appropriate to determine and implement a statewide vanpool strategy.
Obtained approval from Secretary Hancock to pursue a vanpool contract for central Kentucky extended using CMAQ funds; CMAQ funds were not awarded for 2010 and application will be held for 2011 consideration (50% complete. Project delayed due to lack of funds.)

Intersections

- Track "smart-growth" projects such as access management retrofits, roundabouts, innovative intersection treatments, and road diets using GIS. Analyze change over time. Data collected. (100% Complete) New Roundabout Design Memo was issued. (100% Complete)
- Provide information and technical assistance on intersection planning, when requested.
Assistance provided as requested. (100% complete) Participation as Planning representative on the Roundabout Task Force.
- Assist engineers and planners on appropriate processes for considering innovative intersections during the planning process.
Assistance provided as requested. (100% complete)

Additional items

- Formed Road Diet team and were able to get KTC research projects to 1) use simulation to investigate Middlesboro, Bardstown, and Elizabethtown and 2) develop recommended guidelines for consideration of converting 4-lanes to 3-lanes with TWLTL
- Formed Ramp Metering team; Did extensive literature review and put reference documents on KYTC ftp site; Discussed Ohio DOT recent ramp meter installations on I-74 and took field trip to observe I-74 ramp meters in operation. Preliminary planning guidance was developed by the team, but the team decided that KYTC did not have expertise to develop design and operations guidelines. Team will complete planning guidelines. D-6 should use resources available and proceed in conjunction with Ohio DOT to look at Brent Spence project and I-75 corridor in Northern Kentucky. (80% complete)

CHAPTER 12

Congestion, Mobility, and Access Management (continued)

RESPONSIBLE UNIT

Division of Planning
 Multimodal Programs Branch
 Strategic Planning Branch

Additional items (continued)

- Developing “Livability” strategy in conjunction with the Kentucky Climate Action Plan Council activities (50% complete)
- Will be on Louisville team that is developing a livability strategy and pursuing livability funding (10% complete)

PRODUCTS

- Updated Congestion Toolbox website **Completed**
- Updated Park and Ride GIS Database **Not complete. Discussion continuing on appropriate level of information to put on web.)**
- Rideshare/Vanpool Program Recommendations **Complete**
 KTC Road Diet research projects-50% completed Ongoing in FY 2011 Work Program
 Extensive compilation of ramp metering references placed on KYTC ftp site-complete

DISTRIBUTION OF ESTIMATED COST FOR 2009-2010

	Budgeted	Expended	Percentage Expended
PERSONNEL	\$141,000	\$140,889	99%
OTHER	\$5,000	834	17%
TOTAL	\$146,000	\$141,723	97%

ESTIMATED OUTSOURCING EXPENSES AND PURCHASES**Outsource**

- \$30,000 for 2010 for TTI Urban Mobility Study

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 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.
Completed 34 traffic forecasts (100% Complete)
- Administer statewide traffic forecasting contracts and provide quality review for traffic projections made by the MPOs and planning consultants.
Administered 17 traffic and forecasting contracts. Three county/regional models are nearly complete; Madison (75%), Pulaski/Laurel (99%), McCracken (98%) Models will be completed in FY 2011 Work Program
- 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.
Database maintained and a copy made available to other users within the Division of Planning. Reviewed the forecasting web page and updated information (100%)
- Maintain and update internal traffic forecasting tools (e.g. ESAL spreadsheets; turning movement spreadsheets).
Updated turning movement spreadsheet to accommodate a third peak hour period. (100% Complete)
- Provide future year forecasting of K-factors/D-factors for the Highway Performance Monitoring System (HPMS) and compare result with TRADAS outputs.
Generated K-factors, D-factors and 20-year growth rates for HPMS. (100%). TRADAS ongoing Beta tests.
- Update ESAL tables utilizing available 2008 and 2009 vehicle classification data
WIM sites are being reviewed by the Kentucky Transportation Center to optimize location and operation of the sites. Assisting Traffic and Equipment Management (50% Complete) Work ongoing with KTC concerning validation of WIM sites. Work will be continued in FY 2011 Work Program.
- Update ESAL Forecasting for Superpave computer program
Awaiting WIM site optimization and operation. (0% Complete)

CHAPTER 13

Traffic Data Forecasting (continued) Statewide Traffic Model

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch
Forecasting and Modeling Team

PROPOSED ACTIVITIES FOR 2010-2011 (continued)

- Update the annual Traffic Forecast Report (TFR) utilizing KTC.
Due to delay of the previous report, we deferred the update until 2011. (0% Complete)
- 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.
Attended scheduled meetings with the Regional Forecaster's Group and let the September, 2009 meeting. (100% Complete)
- 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.
Deferred meetings to support Forecaster User's Group. (0% Complete)
- Develop refinements and incorporate into KySTM model including the socio-economic data from MPO models. Document the process.
Applied process to further calibrate and validate the KySTM model to an RMSE of 58%. Incorporated five travel time studies into the models and utilized the KySTM model for on User Cost study in Jefferson County.
- 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.
Coordinating the creation of two brand new models and the update of the Madison and Christian County models (90% Complete)
- Identify areas needing an area-wide model. Develop small area and county-wide models using a standardized interface.
Completing the last of three models, two single-county and one two-county models. (90% Complete) Will be completed as part of the FY 2011 Work Program

PRODUCTS

- Corridor or other traffic forecasts as requested. *Fiscal year 2010 objectives 100% complete*
- Travel Time and Road User Cost Studies. *Fiscal year 2010 objects completed*
- Traffic forecast factors for HPMS *100% complete*
- Design tools for consultants and District (e.g. ESAL Calculator; look-up tables) *100 % complete*
- City/County/MPO & Statewide Traffic Models may include, but not be limited to the following:
Shelby County *(0% complete)*
Rowan County *(0% complete)*
Lebanon/Marion County -SPAC suggestion *(0% complete)*
Middlesboro/ Bell County - SPAC suggestion *(0% complete)*
- Completion of Madison County *75% complete*, Pulaski/Laurel County *99% complete* and Paducah/McCracken County *98% complete* models

CHAPTER 13

Traffic Data Forecasting (continued)
Statewide Traffic Model

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch
Forecasting and Modeling Team

DISTRIBUTION OF ESTIMATED COST FOR 2009-2010

	Budgeted	Expended	Percentage Expended
PERSONNEL	\$433,239	\$228,766	53%
OTHER	\$5,000	\$62	1%
TOTAL	\$438,239	\$228,828	52%

ESTIMATED OUTSOURCING EXPENSES AND PURCHASES

Outsourcing

- \$50,000 for annual ESAL table and program updates by KTC using WIM
Task deferred. Awaiting KTC WIM site study
- \$25,000 for annual Traffic Forecasting Report updates by KTC
Task deferred. Awaiting KTC WIM site study
- \$200,000 for County-Wide Traffic models (outsource)
Task is in progress. Three models are under development for Madison, Pulaski/Laurel and McCracken county

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. The will work to expand nonmotorized transportation opportunities in Kentucky by providing assistance to local governments and groups as requested. This assistance will be in the form of technical advice, development of plans, and coordinating studies. The responsibility of the Kentucky Bicycle and Pedestrian 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 as well as the Cabinet for Health and Family Services to promote pedestrian and bicycle travel.

The Office of Special 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, and CMAQ programs.

PROPOSED ACTIVITIES FOR 2009-2010

- Assist local governments in the development of local bicycle and pedestrian network facilities and plans.(100% complete)
Met with KIPDA to discuss their Long Range Plan and bicycling Louisville.
Coordinated with Kentucky Departments of Health concerning "Healthy Communities" initiative by Cabinet for Health and Family Services (CHFS). CHFS has required each local Health Department to conduct a "Walkability Audit." KYTC worked with FHWA to find training for the CHFS Healthy Communities Conference in May 2010. KYTC Staff also presented at the conference and participated in the training. KYTC provided communications opportunities for CHFS and the KY Safe Route to Schools State Network Organizer with Kentucky Youth Advocates. These two organizations had not realized their parallel missions before this introduction. Responded to concerns for LBL new multi-use path and ATV use. Offered alternatives for signage and safety. Worked with ADDs and MPOs to get a list of local bike and ped greenway/trails, on and off road facilities, as well as clubs, and local advocacy groups.

CHAPTER 14

Bicycle and Pedestrian Program (continued)

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch

PROPOSED ACTIVITIES FOR 2009-2010 (continued)

- 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. (100% complete)
Worked with Maintenance to review resurfacing list for bike/ped opportunities. Developed a KYTC Lane Configuration Guide to support safe bicycle and vehicular travel. Guide is posted on Bikewalk.ky.gov website. The guide shows how existing road cross sections may be re-sized to be repurposed for a more complete street. Coordinated with KYTC Safe Routes to Schools Program. Shared research, resources, and information. Coordinated with District for Share the Road signs. Coordinated with District to sweep shoulders before local bike/ped events. Reviewed four (4) Scenic Byway Applications
- Promote pedestrian and bicycle safety and facilities. (100% complete)
Included a block on 2010 State map concerning bike/ motorist safety
Responded to League of American Bicyclist Survey. KYTC's 2010 annual Bicycle Friendly State ranking is 22nd. Last year Kentucky ranked 27th.
- Revise and update the statewide bike-route system and associated maps. (100% complete)
Found and added the National Bike Route-Underground Railroad Tour to Kentucky's Bicycle tours. Met with ACA concerning US Bike Route Designations. Created an application to download KY Bike Tours to phone, now available on bikewalk.ky.gov. Created an IMS site for KY Bike Tours. Coordinated and provided information and contacts for Kentucky Recreational Trails Authority.
- Facilitate the increased use and public education of non-motorized modes of transportation. 100% complete
Responded to 20+ public inquires about bike routes, tours, and KY state law. Responded to 10+ letters of concern about KY's bike and ped programs. Followed proposed legislation in the 2010 session HB 255
- Plan a bicycle and pedestrian safety conference. 0% complete
Delayed since B/P Coordinator Position was vacant
- Update the Kentucky bicycle and pedestrian plan. 100% complete
Reviewed comments from KBBC. Made recommendations to KYTC Secretary's office
- Participate in the Cabinet's Strategic Safety Plan update. 0% complete
Safety Plan not initiated in FY2010.
- Review and revise the Kentucky bicycle and pedestrian policy as needed. 100% complete
Reviewed comments from KBBC. Made recommendations to KYTC Secretary's office
- Coordinate the Annual Share the Road Rally. 0% complete
Share the Road Rally now sponsored by local business.

CHAPTER 14

Bicycle and Pedestrian Program (continued)

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch

PROPOSED ACTIVITIES FOR 2009-2010 (continued)

PRODUCTS

- Development of a revised Bicycle and Pedestrian Plan and a Policy
Reviewed comments from KBBC. Made recommendations to KYTC Secretary's office
- Preparations for the annual Share the Road Rally in 2009
Share the Road Rally now sponsored by local business.
- Preparations for the annual KBBC meeting in 2010
*Awarded two sets of grants for the Paula Nye Educational Memorial Grant using funds from the Share the Road license plate.
Developed procedures for KBBC and KYTC to review and approve the grants/awards
KBBC Commissioners each signed a Model Code of Ethics as suggested by the Kentucky Commission on Commissions.
Conducted 9 KBBC Meetings. Provided minutes and responded to KBBC questions/concerns for KYTC and other state agencies.
KBBC sponsored two children's bikes and two helmets that were given away at the 2009 KY State Fair at the KYTC booth. Entrants answered 5 bike/ped questions correctly to enter.*
- Updated bicycle and pedestrian brochures and promotional materials
As needed

DISTRIBUTION OF ESTIMATED COST FOR 2009-2010

	Budgeted	Expended	Percentage Expended
PERSONNEL	\$94,200	\$47,789	51%
OTHER	\$31,300	\$1,536	5%
TOTAL	\$125,500	\$49,325	39%

ESTIMATED OUTSOURCING EXPENSES AND PURCHASES

- \$3,300 for Kentucky Bicycle and Bikeway Commission Annual Meeting *\$1,442 expended, 44% of budgeted amount.*
- \$5,000 for Bicycle and Pedestrian Facilities Conference *\$0.00 expended*
- \$5,500 for Share the Road Rally event *\$0.00 expended*
- \$7,500 for Bicycle and Pedestrian Brochures and Bicycle Route Tour Guides *\$0.00 expended*
- \$10,000 for Bicycle and Pedestrian Promotional Items (bike lights, reflectors, pedometers) *\$0.00 expended*
- \$4,000 for training for State Bicycle and Pedestrian Coordinator *\$0.00 expended*

CHAPTER 15

Highway Safety Improvement Program

RESPONSIBLE UNITDivision 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 2009-2010

- 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

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.

CHAPTER 15

Highway Safety Improvement Program (continued)

RESPONSIBLE UNITDivision of Traffic Operation
Traffic Engineering Branch
Highway Safety Improvement Program Team**DISTRIBUTION OF ESTIMATED COST FOR 2009-2010**

	Budgeted	Expended	Percentage Expended
PERSONNEL	\$300,000	\$129,156	43%
OTHER	\$		
TOTAL	\$300,000	\$129,156	43%

This chapter assisted the HSIP efforts to secure funding for various projects. Below is a summary of funding secured for all HSIP projects last fiscal year:

- There were 33 Lane Departure-Resurfacing projects, with total funding of \$ 4.3 million in FY 2010.
- Through the Drive Smart Safety Corridors program, 38 projects were funded during this reporting period at a total cost of approximately \$4.1 million.
- 105 projects have been programmed for Low Cost Safety funding with a total cost of approximately \$5.2 million.
- Two High Cost Safety projects were programmed with a total cost of \$696,400.
- 30 projects were programmed for High Risk Rural Roads Program funding with a total cost of approximately \$2.2 million.

FY10 Planning Work Program Chapter Expenditures

Title	Chapter	Budget	EXPENDED or		% of Budget	BALANCE	
			ENCUMBERED	EXPENDED			OBLIGATED
Customer Service	01P	\$58,500		\$43,757	\$43,757	75%	\$14,743
Personnel Training	02P	\$303,800		\$120,897	\$120,897	40%	\$182,903
Traffic and Equipment Mgmt	03P	\$3,433,900	\$717,101	\$1,680,598	\$2,397,699	70%	\$1,036,201
Roadway Systems	04P	\$723,600		\$604,919	\$604,919	84%	\$118,681
Cartography	05P	\$568,600		\$349,225	\$349,225	61%	\$219,375
Highway Information System	06P	\$1,661,600	\$147,957	\$1,426,405	\$1,574,362	95%	\$87,238
Strategic Corridor Planning	07P	\$1,157,100	\$2,500	\$757,427	\$759,927	66%	\$397,173
Statewide Transportation Planning	08P	\$734,200		\$525,363	\$525,363	72%	\$208,837
MPO	09P	\$635,600		\$453,403	\$453,403	71%	\$182,197
Air Quality Conformity Analysis	10P	\$173,800		\$106,691	\$106,691	61%	\$67,109
Multimodal Transportation	11P	\$232,900		\$130,916	\$130,916	56%	\$101,984
Congestion, Mobility, & Access Mgmt.	12P	\$146,000		\$141,723	\$141,723	97%	\$4,277
Traffic Data Forecasting	13P	\$438,239		\$228,828	\$228,828	52%	\$209,411
Bicycle and Pedestrian Program	14P	\$125,500		\$49,325	\$49,325	39%	\$76,175
Highway Safety Improvement Prg	15P	\$300,000		\$129,156	\$129,156	43%	\$170,844
TOTAL for FH02		\$10,693,339	\$867,558	\$6,748,633	\$7,616,191	71%	\$3,077,148

Current as of 9/30/2010