

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



**ANNUAL PERFORMANCE AND
EXPENDITURE REPORT
FOR
FISCAL YEAR 2011 ANNUAL WORK PROGRAM
PROJECT SP 0011 (001)
JUNE 16, 2010 THROUGH JUNE 15, 2011**

SEPTEMBER 2011

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, 2010 through June 15, 2011 (Fiscal Year 2011).

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 2011 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.

FY 2011
SPR CHAPTER FUNDING SUMMARY

<u>CHAPTER AND TITLE</u>	<u>BUDGETED</u>	<u>EXPENDED</u>
1 SPR Work Program	\$68,000	
2 Personnel Training	\$330,300	
3 Traffic and Equipment Management	\$2,895,000	
4 Roadway Systems	\$721,900	
5 Cartography	\$520,100	
6 Highway Information System	\$1,916,100	
7 Strategic Corridor Planning	\$1,055,100	
8 Statewide Transportation Planning	\$780,300	
9 Metropolitan Planning Organizations	\$562,200	
10 Air Quality	\$136,800	
11 Multimodal Transportation	\$261,300	
12 Congestion, Mobility, and Access Management	\$144,900	
13 Traffic Data Forecasting	\$459,000	
14 Bicycle and Pedestrian Program	<u>\$107,500</u>	
Planning Total	\$9,958,500	\$8,013,192
Percent Expended		80%
15 Highway Safety Improvement Program	\$300,000	
16 Value Engineering and Quality Assurance	<u>\$500,000</u>	
Other Items Total	\$800,000	\$255,496
Percent Expended		32%
 TOTAL	 \$10,758,500	 \$8,268,688
Percent Expended		77%

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.

PROPOSED ACTIVITIES FOR 2010-2011

- Coordinate with all other branches in the Division of Planning in order to prepare the annual SPR Planning Work Program. **The Customer Service Branch created well over 400 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 monthly expenditure reports for each chapter of the SPR Planning Work Program. **Ran 12 expenditure reports and delivered those reports to branch managers and District Office Planning Supervisors quarterly to assist them in reporting quarterly accomplishments**
- Update accomplishments of the SPR Planning Work Program quarterly. **Received and updated accomplishments for each chapter of the SPR Planning Work Program quarterly.**
- Coordinate and prepare the annual SPR Planning Work Program and Expenditures Report. **Ran final expenditure reports and reported total expenditures as well as percentage of budgeted amounts. Prepared FY 2012 Work Program.**

PRODUCTS

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

DISTRIBUTION OF ESTIMATED COST FOR 2010-2011

	2010-2011	Expended	Percent Expended
PERSONNEL	\$68,000	\$60,847	89%
OTHER			
TOTAL	\$68,000	\$60,847	89%

CHAPTER 2

Personnel Training

RESPONSIBLE UNIT

Division of Planning

PURPOSE AND SCOPE

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

PROPOSED ACTIVITIES FOR 2010-2011

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

PEEK Training (Chapter 3 – Traffic and Equipment Management) **UK provided PEEK Training was conducted by Martin Gornick on August 17-19, 2010 and was attended by all members of the TEMAC Branch and various District personnel.**

NATMEC Training (Chapter 3 – Traffic and Equipment Management) **NATMEC is biennial and was not held this fiscal year.**

TMG Training (Chapter 3 – Traffic and Equipment Management) **No TMG Training was attended by TEMAC personnel this fiscal year.**

TRADAS (Chapter 3–Traffic and Equipment Management and Chapter 13–Traffic Data Forecasting) **Two staff attended TRADAS training conducted by Chaparral Systems on September 13-17, 2010.**

Other – Equipment Team attended First Aid and CPR Training conducted by KYTC.

Other – Equipment Team attended Work Zone Traffic Control Training conducted by the Kentucky Transportation Center.

GIS Conference (Chapter 4 – Roadway Systems, Chapter 6 – Highway Information System and Chapter 12 – Congestion, Mobility and Access Management) **GIS Conference – State-sponsored GIS Conference has been replaced by Kentucky Association of Mapping Professionals Conference which was held October 14 & 15, 2010 and was attended by four persons.**

ESRI (Chapter 5 – Cartography) **No applicable training sessions offered this year**

Adobe Illustrator (Chapter 5 – Cartography) **No applicable training sessions offered this year**

KAMP (Ky Assoc of Mapping Professionals) Annual Meeting (Chapter 4 – Roadway Systems, Chapter 5 – Cartography) **See GIS Conference above**

GIS-T (GIS for Transportation) Annual Meeting (Chapter 4 – Roadway Systems, Chapter 5 – Cartography) **Attended by one person**

CHAPTER 2

Personnel Training (continued)

RESPONSIBLE UNIT

Division of Planning

PROPOSED ACTIVITIES FOR 2010-2011 (continued)

Highway Performance Monitoring System (HPMS) (Chapter 6 – Highway Information System)
Attended by two staff

Highway Information System Conference (HIS) (Chapter 6 – Highway Information System) *Two staff represented the Division at the HIS conference conducted by FHWA on October 18-21.*

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

Asset Management Conference (Chapter 6 – Highway Information System)

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

HIDAC Training (Chapter 6 – Highway Information System)

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

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

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

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

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

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

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

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

Microstation V8i Upgrade – Chapter 7 – Strategic Corridor Planning

MOVES 201 Webinar - Chapter 7 – Strategic Corridor Planning; Chapter 9 – Metropolitan Planning Organization

Microstation – Chapter 7 – Strategic Corridor Planning

West Virginia Peer to Peer Mtg – Chapter 7 – Strategic Corridor Planning, Chapter 8 – Statewide Transportation Planning, Chapter 9 – Metropolitan Planning Organization

GIS 10 Training & Open Lab - Chapter 7 – Strategic Corridor Planning

NHI 380096, Modern Roundabouts – Chapter 7 – Strategic Corridor Planning; Chapter 9 – Metropolitan Planning Organization

Lifesavers Conference - Chapter 7 – Strategic Corridor Planning; Chapter 9 – Metropolitan Planning Organization

Road Safety Audit Class – Chapter 7 – Strategic Corridor Planning, Chapter 9 – Metropolitan Planning Organization

Project Development Academy – Chapter 8 – Statewide Transportation Planning, Chapter 9 – Metropolitan Planning Organization

LPA Workshop – Chapter 7 – Strategic Corridor Planning, Chapter 8 – Statewide Transportation Planning; Chapter 9 – Metropolitan Planning Organization

Indiana MPO Planning Conference - Chapter 9 – Metropolitan Planning Organization

Model User Group Meeting - Chapter 9 – Metropolitan Planning Organization

CHAPTER 2

Personnel Training (continued)

RESPONSIBLE UNIT

Division of Planning

PROPOSED ACTIVITIES FOR 2010-2011 (continued)

STAQS (Chapter 10 – Air Quality Conformity Analysis)

MOVES (Chapter 10 – Air Quality Conformity Analysis) *Attended by multiple division employees*

National Freight Conference (Chapter 11 – Multimodal Transportation) *Attended by multiple division employees*

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

TransCAD Training (Chapter 13 – Traffic Data Forecasting)

Census Training (Chapter 5 – Cartography, Chapter 9 – Metropolitan Planning Organization, Chapter 10 – Air Quality Conformity Analysis, Chapter 13 – Traffic Data Forecasting) *No applicable training offered fiscal year 2010 – 2011 – will be attending in fiscal year 2011 - 2012*

Bike/Ped Conferences (Chapter 14 – Bicycle and Pedestrian Program) *Attended by one staff*

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

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

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

Planning inhouse training for Central office and District Staff which included five meetings. Nov 10, 2010, Jan 18, 2011, Feb 17, 2011, April 21, 2011, May 12, 2011

PRODUCTS

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

DISTRIBUTION OF ESTIMATED COST FOR 2010-2011

	2010-2011	Expended	Percent Expended
PERSONNEL	\$295,300	\$132,282	45%
OTHER	\$35,000	\$22,396	64%
TOTAL	\$330,300	\$154,678	47%

Other

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

CHAPTER 3

Traffic and Equipment Management

RESPONSIBLE UNIT

Division of Planning
Traffic and Equipment Management Branch

PURPOSE AND SCOPE

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

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

PROPOSED ACTIVITIES FOR 2010-2011

- Maintain, update, analyze, provide quality control and assurance of data, and make available data from more than 13,500 traffic count stations. All traffic count data were checked for quality control and assurance of data upon entering into database. Data was updated as it was received. Data was continuously maintained and made available via regularly updated information on the Division of Planning website and by request from the TEMAC Branch. 100% Complete
- Maintain, update, analyze, provide quality control and assurance of data, and make available data from more 2,000 ramp count stations. All traffic count data was checked for quality control and assurance of data upon entering into database. Data was updated as it was received. Data was continuously maintained and made available via regularly updated information on the Division of Planning website and by request from the TEMAC Branch. 100% Complete
- Work with the Highway District Offices to perform approximately 6,500 regularly scheduled short-duration portable machine counts yearly which include one-third of all short-duration traffic count stations and ramp traffic count stations. Received approximately 4400 counts (of approximately 4900 assigned (90%) from District Offices for short-duration counts in calendar year 2010. Assigned approximately 4950 short-duration counts (including counts not completed in calendar year 1201) to Districts in calendar year 2011.
- In accordance with the Traffic Monitoring Guide, collect and process vehicle classification data for approximately 2,000 stations, which is 25-30% of all traffic count stations statewide. Vehicle classification data was collected and processed from approximately 1050 stations (~24%) in calendar year 2010. % complete of expected task
- Review, assign, process, analyze, and distribute data for approximately 400 special count stations that are requested by the highway districts and other divisions annually. Approximately 200 special counts (100% of those received) were reviewed, assigned, processed, analyzed and distributed in FY11.

CHAPTER 3

Traffic and Equipment Management (continued)

RESPONSIBLE UNIT

Division of Planning
Traffic and Equipment Management Branch

PROPOSED ACTIVITIES FOR 2010-2011 (continued)

- Collect volume and classification data on approximately 200 interstate stations. Of 189 sites, completed data collection from 127 (67%); were unable to collect data from 26 stations (14%) due to construction in the vicinity; were unable to collect data from 25 stations (in the western part of the state) due to travel budget being used for Construction Inspection of new loop installations (these will be completed in calendar year 2011); intend to assign eleven stations to Consultant to be completed in calendar year 2011.
- Work to restart the WIM program to collect, process, analyze, and submit quarterly one week of weigh-in-motion (WIM) data at 28 permanent WIM stations. Periodically calibrate and assess equipment for adjustments in order to obtain quality data. Aided by the Kentucky Transportation Center, efforts to restart the WIM program commenced. Inherited two WIM stations from an expired warranty project. Calibrated and are currently collecting, processing, and analyzing data from sixteen WIM sites with four more calibrations planned for the immediate future. Submitted quarterly reports to FHWA for first two quarters of calendar year 2010. Currently analyzing old WIM data to try to fill in gaps for previous quarters that data was not submitted. 100% Complete
- 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. Automatic Traffic Recorder (ATR) data was downloaded and processed daily and a report of hourly records was submitted to FHWA monthly. Data was analyzed to ensure proper operation of ATRs. Maintenance issues were referred to the Equipment Team and repaired where feasible. Sites that require in-pavement sensor maintenance will be repaired by electrical contractors through the new District maintenance agreements or by contract in FY12. Data is currently being retrieved from 72 ATR stations. Review of current and possible ATR stations were not done due to inordinate amount of functional classification changes. 100% Complete
- 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. Updated seasonal, axle and design hour factors at the end of calendar year 2010. 100% Complete
- 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. Investigated new technologies including but not limited to video detectors, wireless detectors, circular loops, and modems. Purchased ADRs, SD modules, an oscilloscope, continuity testers for each District traffic technician, GPS units, road tube, miscellaneous portable count materials, protective clothing, and a traffic count technician vehicle. Have collaborated with the Division of Maintenance to develop a test location to investigate new technologies. Tentative location has been determined with testing to commence in FY12. 100% Complete

CHAPTER 3

Traffic and Equipment Management (continued)

RESPONSIBLE UNIT

Division of Planning
Traffic and Equipment Management Branch

PROPOSED ACTIVITIES FOR 2010-2011 (continued)

- Certify, repair, and maintain approximately 800 traffic data recorders. The TEMAC Equipment Team certified 600 automatic data recorders (ADRs). ADRs were maintained and repaired throughout the year, as required. Surplussed approximately 60 ADRs. Constructed new ADR charging station in each of the twelve District offices. 100% Complete
- Install, inspect, repair, and maintain 550 permanent vehicle sensor locations. Permanent vehicle sensor locations were inspected concurrent with annual short term traffic data collection. Sites requiring maintenance were noted and, where feasible, repaired by Equipment Team personnel. Sites that require in-pavement sensor maintenance will be repaired by electrical contractors through the new District maintenance agreements or by contract in FY12. Of 521 total sites, 37 are currently in need of some sort of maintenance. We hope to do a modicum of in-house, in-pavement maintenance in FY12. 100% Complete
- 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. Approximately 400 short duration local road bridge counts were performed (33% of triennial program). 100% Complete
- Provide traffic data for annual FHWA required HPMS report. All required data for the annual FHWA HPMS report was provided by the Data Team. 100% Complete
- Review and analyze functionally classified local road data (collected by contractor) to validate formula used to calculate local road DVMT. This task is still in progress. All local road data has been collected however, due to an unexpected number of functionally classified roadway changes, analysis of the data to validate the formula has yet to be completed. This will be finalized in early FY12. 100% Complete
- Track emerging highway projects and produce plans and specifications for new and replacement traffic sensor installations for submittal into construction and pavement rehabilitation contracts. Approximately fifty sets (100% of requested) of plans and specifications were produced and submitted by the Equipment Team for construction and pavement rehabilitation contracts. We are currently in the process of reviewing and updating our Construction Notes and Standard Detail Sheets. This will be completed in FY12.
- Update in-house databases to include any new stations or roadway alignment changes. Correct beginning and ending mile points to better represent traffic generators. All in-house databases were updated in a timely manner as needed. 100% Complete
- Detect, analyze, and adjust volume counts while combining and creating additional stations where necessary. Data was monitored and stations were added/deleted/combined throughout the year as required. 100% Complete
- Document the TMS process and update as needed. The TMS process documentation was updated throughout the year as needed. This is currently undergoing a major rewrite and will be completed next fiscal year. 100% Complete

CHAPTER 3

Traffic and Equipment Management (continued)

RESPONSIBLE UNIT

Division of Planning
Traffic and Equipment Management Branch

PROPOSED ACTIVITIES FOR 2010-2011 (continued)

- 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. **Provided oversight of consultant who completed local road counts in 28 counties and approximately 185 interstates counts. Provided quality control of all counts received. Awarded new statewide counting contract to Southern Traffic Services. 100% Complete**
- Review, analyze, and update data summaries for vehicle weights and calculating Equivalent Single Axle Loads (ESALs). **Not done due to lack of vehicle weight data.**
- Test and implement new software to move mainframe vehicle classification and traffic volume data to a pc-based software with much more capabilities for display, trend analysis, and viewing that also works with the upgrade of HIS. **Continued testing; implementation delayed due to compatibility issues. Renewed TRADAS maintenance contract. 100 % Complete**
- Develop annual traffic count technician training program.
The annual traffic count technician training program was developed and presented by TEMAC personnel on February 17, 2011, and attended by all TEMAC members and District count technicians. 100% Complete
- Arterial contract for Loop and Piezo installation and maintenance **No contracts were let to accomplish this task this fiscal year however, contracts were individually established with electrical contractors in seven Districts to provide any needed data collection station maintenance. The remaining five Districts are expected to be contracted in FY12.**
- Complete contracts for installation of approximately 60-65 new loops and piezos continued in fiscal year 2011. **Two contracts to install 69 new traffic data collection stations were let in this fiscal year. Sixty-four sites (93%) were installed. Five sites conflicted with other construction and have been delayed pending completion of the conflicting project. 100% Complete**

PRODUCTS

- Short-duration portable machine volume and classification counts **Received approximately 4400 counts (of approximately 4900 assigned (90%)) from District Offices for short-duration counts in calendar year 2010. Assigned approximately 4950 short-duration counts (including counts not completed in calendar year 2010) to Districts in calendar year 2011. Of 189 interstate sites, completed data collection from 127 (67%); were unable to collect data from 26 stations (14%) due to construction in the vicinity; were unable to collect data from 25 stations (in the western part of the state) due to travel budget (these will be completed in calendar year 2011); intend to assign eleven stations to Consultant to be completed in calendar year 2011. Approximately 400 short duration local road bridge counts were performed (33% of triennial program).**
- Perform and process data for special counts **Approximately 200 special counts (100% of those received) were reviewed, assigned, processed, analyzed and distributed in FY11.**

CHAPTER 3

Traffic and Equipment Management (continued)

RESPONSIBLE UNIT

Division of Planning
 Traffic and Equipment Management Branch

PRODUCTS (continued)

- Install, maintain, and process data from permanent Automatic Traffic Recorders (ATRs). Automatic Traffic Recorder (ATR) data was downloaded and processed daily and a report of hourly records was submitted to FHWA monthly. Data was analyzed to ensure proper operation of ATRs. Maintenance issues were referred to the Equipment Team and repaired where feasible. Sites that require in-pavement sensor maintenance will be repaired by electrical contractors through the new District maintenance agreements or by contract in FY12. Data is currently being retrieved from 72 ATR stations. Review of current and possible ATR stations was delayed due to inordinate amount of functional classification changes.
- Updated axle, monthly factors, and correction factors Updated seasonal, axle and design hour factors at the end of calendar year 2010.
- Updated and maintained databases of count data, count stations, or other associated data. Data was updated as it was received. Data was continuously maintained and made available via regularly updated information on the Division of Planning website and by request from the TEMAC Branch.
- Weigh-in-motion data Submitted quarterly reports to FHWA for first two quarters of calendar year 2010. Currently analyzing old WIM data to try to fill in gaps for previous quarters that data was not submitted.
- 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. Permanent vehicle sensor locations were inspected concurrent with annual short term traffic data collection. Sites requiring maintenance were noted and, where feasible, repaired by Equipment Team personnel. Sites that require in-pavement sensor maintenance will be repaired by electrical contractors through the new District maintenance agreements or by contract in FY12. Of 521 total sites, 37 are currently in need of some sort of maintenance.
- Accurate local DVMT data for FHWA reporting through HPMS. Accurate local DVMT data for FHWA was reported through HPMS.

DISTRIBUTION OF ESTIMATED COST FOR 2010-2011

	2010-2011	Expended	Percent Expended
PERSONNEL	\$2,440,000	\$2,246,585	92%
OTHER	\$455,000	\$603,466	133%
TOTAL	\$2,895,000	\$2,848,051	98%

CHAPTER 3

Traffic and Equipment Management (continued)

RESPONSIBLE UNIT

Division of Planning
Traffic and Equipment Management Branch

ESTIMATED OUTSOURCING EXPENSES AND PURCHASES

Outsourcing

- \$650,000 contract for outsourced traffic counts and sensor installations to be performed by consultant under Statewide Traffic Counting contract. \$253,419 expended, 39% of the total task complete, 100% of the fiscal year 2011 task complete.
- \$100,000 for Weigh-In-Motion (WIM) data compilation to be performed by UK. \$0.00 expended but the task is underway. UK hasn't billed us yet.
- \$575,000 for Interstate and Arterial contract for Loop and Piezo installation and maintenance \$715,818 total expenditures; \$335,530 from fiscal year 2010 contract with Davis H Elliot; \$380,288 from a fiscal year 2011 contract with Arrow Electric. Over 100% tasks completed for fiscal year 2011.

Other

- \$250,000 for purchase of new Traffic Data Collection Equipment \$436,287 expended, 100% of fiscal year task completed.
- \$100,000 for Piezos, Road Tube, and counting supplies \$27,199 expended; includes \$7,800 purchase of road tube; various counting supplies; and a Master Agreement was established to purchase Piezo sensors (no expenditures during fiscal year 2011 for Piezo sensors). Purchased 100% of counting supplies needed.
- \$75,000 Other Operational Cost
For items such as travel, mileage, equipment and other cost directly associated to the completion of this work chapter. \$45,913 expenditures in electric and phone bill payments for ARTs; \$92,410 is equipment usage charges; \$3,178 in travel reimbursement. There were a total of \$141,231 expenditures.

CHAPTER 4

Roadway Systems

RESPONSIBLE UNIT

Division of Planning
Transportation Systems Branch

PURPOSE AND SCOPE

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

PROPOSED ACTIVITIES FOR 2010-2011

- Track roadway construction or revision projects to identify changes in roadways and their effect on roadway system designations. **Tracked all project authorizations and 14 project lettings for projects affecting roadway systems. 100% Complete**
- Adapt project design plans and use GIS software to generate maps for resolving issues of roadway system and ownership designations and for use by other branches. **Incorporated project design files into GIS map documents to create decision-making maps for 64 projects. 100% Complete**
- Coordinate the two-way flow of information between the Highway District planning staffs and Central Office Transportation Systems and Data Management branch staffs regarding roadway construction and ownership status. **Regularly communicated with Highway Districts and Data Management Branch on all information obtained for input into HIS for HPMS reporting. 100% Complete**
- Generate official documentation recommending appropriate SPRS revisions to the Commissioner of the Department of Highways for approval. (KRS 177.020 and 603 KAR 3:030) **Generated, processed to obtain necessary signatures and distributed 120 Official Order revisions to the SPRS as well as an additional 109 Official Orders resulting from review of systems classifications with Highway Districts. 100% Complete**
- Ensure the SPRS reflects roadways of significance, and correlates with the functional classification system and the electronic base map coverage. **Discovered and processed changes resulting from roadway data collection and roadway system data reviews. 100% Complete**
- Prepare quarterly reports for publication on the internet of SPRS mileage and of the designated routes and mileage of roads in the NHS and NN systems. **Updated quarterly reports on the internet for NHS and NN routes and mileage. Renewed the practice of publishing State Primary Road System mileage report on a quarterly basis to the internet. 100% Complete**
- Review revisions to the SPRS to discover any modifications made necessary to other systems such as functional classification, NHS, or NN classifications. **Reviewed projects regularly for necessary system classification revisions. 100% Complete**
- As requested by local public agencies or Highway Districts, review requests for revisions of functional classification, NHS and NN. As appropriate, prepare request from Cabinet to FHWA for system revision. **Processed request to FHWA to revise functional classification, ownership and NN in downtown Owensboro. 100% Complete**

CHAPTER 4

Roadway Systems (continued)

RESPONSIBLE UNIT

Division of Planning
Transportation Systems Branch

PROPOSED ACTIVITIES FOR 2010-2011 (continued)

- As necessary or appropriate, review interstate frontage roads. Coordinate documentation by Highway District offices of suitability for transfer to local government and prepare request from Cabinet to FHWA for permission to complete transfer of property to local government. **None required. 100% Complete**
- As necessary or appropriate, prepare and submit request for approval by AASHTO Standing Committee on Highways, U.S. Route Numbering Special Committee, for any significant change to routing of a U.S. numbered highway. **Four applications submitted. 100% Complete**
- Provide all system revision information to the Data Management branch and others as appropriate. **Provided information as received via emails, meetings and video conferences to Data Management and others as appropriate. 100% Complete**
- Compile data to provide ton-mile statistics to the Governor's Office for Local Development for coal transported on Kentucky Highways as required by KRS 177.977 and KRS 42.455. **Provided information to DLG in September 2010. 100% Complete**
- Publish Kentucky's Official Coal Haul Highway System Report as required by KRS 177.977 and KRS 42.455. **Report published to internet in September 2010. 100% Complete**
- Provide the Division of Maintenance information for their review. Develop the update of the Extended Weight Coal and Coal By-Products Haul Road System for replacement of the current system in the Highway Information System database. Prepare the Official Order for approval of the updated Extended Weight system. **Provided information to Div Of Maintenance in September, Official Order designating Extended Weight system signed and published in November. 100% Complete**

PRODUCTS

- Official Order Changes to the State Primary Road System
120 Official Orders processed and distributed including 55 transfer OOs.
Discovered and processed changes resulting from roadway data collection and roadway system data reviews
Review of Systems classifications with Highway Districts required 109 additional Official Orders. Functional Class revisions provided to Data Management for all Highway Districts
- State Primary Road System Official Order Listings and Functional Classification Reports
Updated each county State Primary System Official Order Listing document when each Official Order was processed (over 200 times)
- Quarterly Reports on internet: State Primary Road System Mileage, National Highway System roadway classification, National Truck Network roadway classification
Updated NHS and NTN reports on web at beginning of each quarter. Put SPRS mileage report back out on web upon District requests
- GIS map files incorporating project design files for decision-making and use by other Branches
Incorporated project design files into GIS map documents to create decision-making maps for 64 projects. Regularly communicated with Data Management Branch on all information obtained for input into HIS for HPMS reporting

CHAPTER 4

Roadway Systems (continued)

RESPONSIBLE UNIT

Division of Planning
Transportation Systems Branch

PRODUCTS (continued)

- Coal Haul System Report with associated maps and separate datasets to Department of Local Governments, KYTC Budgets and KYTC Bridge Maintenance
Produced 31 Coal Haul System County Maps and Statewide routes map
Published Annual Coal Haul System Report to web page in September 2010
Ton-miles information provided to Dept for Local Governments August 2010
Local road coal haul data provided to KYTC Accounts August 2010
Provided list of bridges on 50,000 ton routes to Bridge Maintenance for analysis
Annual Extended Weight Official Order produced in December 2009
Forms for 1st and 2nd half of 2010 compiled and mailed to approximately 700 coal shippers
Entered route information into new compilation software for approximately
- Request to FHWA for modification of functional classification **None required**
- Request to FHWA for modification of National Truck Network (NN) or Official Order Change to State Designated National Truck Network
Processed Official Orders to add the newly constructed Breathitt Parkway Extension in Christian County to the state-designated NTN and to take off the downtown streets in Owensboro
- Request to FHWA for modification of National Highway System **None required**
- Request to FHWA for permission to relinquish interstate frontage road to local government
None required
Miscellaneous
- Completed “Mileage removed from state maintenance” chart with estimated dollar values for GASB transmitted to Florence Wiley in Office of Budge & Fiscal Mgmt
- Submitted 4 applications to the fall 2010 meeting of the AASHTO US Route Numbering Committee including re-routing of US60A in Louisville. Approval received in November. Worked on maps and route log for bicycle tour submission but decided not to submit at this time. No applications for the spring meeting.

DISTRIBUTION OF ESTIMATED COST FOR 2010-2011

	2010-2011	Expended	Percent Expended
PERSONNEL	\$696,900	\$736,707	106%
OTHER	\$25,000	\$10,334	41%
TOTAL	\$721,900	\$747,041	103%

Other

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

CHAPTER 5

Cartography

RESPONSIBLE UNIT

Division of Planning
Transportation Systems Branch

PURPOSE AND SCOPE

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

PROPOSED ACTIVITIES FOR 2010-2011

- Provide electronic mapping for all city, county, district, state, and special-purpose cartographic products. County maps were updated at least 244 times, with separate maps for SPRS and Functional Class exported and updated on the internet. City maps were updated 171 times with separate maps for SPRS and Functional Class exported and updated on the internet. District maps for SPRS and Functional Class were updated and exported 13 times and updated on the internet. 77 County maps with 10 additional pages of insets for those maps, 39 city maps and Excel files of roads in each area were created for the ADDs to use in their GPS efforts. Updated National Truck Network statewide and 3 metro area maps. Updated 81 city and county traffic count maps. 100% Complete
- Maintain and publish electronic formats of cartographic products for display on the Internet. Updated regularly as maps updated. 100% Complete
- Update the Official State Highway Map electronic files and accomplish necessary publication. Monitor inventory at 17 locations and coordinate additional deliveries as needed. Reviewed updated highway information from Districts and Systems Team to ensure routes correct on Official Highway Map. Obtained printing exception from Finance, processed E01 for contract, updated RFP documents for contract which was let 12/14/10. ITI document processed for \$25,000 in funding from Tourism. Continued meeting with Tourism and Creative Services to finalize graphics for civil war sites, no texting “sign”, Best Western ad, and cover art re Kentucky Speedway. Revisions to coloration of map to match Tourism materials and updated roads on statewide map and 15 inset maps as required. Prepared for publication and press-checked printing of 824,000 maps. Continue to monitor inventory and ship product to 17 locations. Created alternate format digital versions of the map for publication on the web page and for usage in GIS software. 100% Complete
- Create reports and exhibits for various Division projects and studies to assist transportation decision-makers in their roles. Produced maps of bicycle routes in Districts 3 and 6 for MultiModal for Bicycle Commission. Provided analysis and resulting map and county listing for annual KYTC statutory certification of counties for Kentucky Rural Economic Development Act. Created several maps for each District with different sets of data for use in developing District/Regional Transportation Plans. 100% Complete

CHAPTER 5

Cartography (continued)

RESPONSIBLE UNIT

Division of Planning
Transportation Systems Branch

PROPOSED ACTIVITIES FOR 2010-2011 (continued)

- Provide mapping and graphic assistance to other Divisions and Departments as requested. Produced 6 maps of Kentucky Speedway area for Secretary meeting with local officials. Aerial photography maps printed for several waste disposal sites for Mr. Merryman. Bicycle maps as listed above. Updated legislator photo map as photos became available and as legislative leadership was decided. Produced 11x17 maps of 16 Western Kentucky counties for Maintenance for mosquito eradication program. Prepared maps of I-75 detour for Sprint Cup at Ky Speedway. Prepared special map for emergency assistance purposes of Bell County. Developed/Updated study maps for KY 44 in Spencer County, KY 441 in Middlesboro, KY 3161 and for Middlesboro Small Urban Area study. 100% Complete
- Develop and provide to outside entities digital maps as requested. Responded to map review and update requests from AAA and Rand McNally. Prepared maps of Perry County and Hazard for Tourism quilt brochure.
- Develop and provide geographic information systems (GIS) files locating non-roadway modes of transportation. Reviewed and edited rail lines from GIS data provided by major rail companies. 100% Complete

PRODUCTS

- Official Highway Map
Task 100% completed:
Contract obtained for 2011 map, graphic files updated, roadway updates made to statewide map and 15 inset maps, printing QC'd and 800,000 copies printed. Inventory replenished as requested
- State Primary Road System Maps
Task 100% completed:
Updated county maps at least 244 times
Updated city maps at least 171 times
Updated highway district maps 13 times
County road reference maps: 84 County maps with 23 additional pages of insets for those maps, 74 city maps and Excel files of roads in each area were created
Updated 81 city and county traffic count maps
- Functional Classification Maps
Task 100% completed:
Same as for State Primary Road System
- Other Highway Data Maps (i.e., NHS, NN, etc. maps)
Task 100% completed:
Updated NN statewide and 3 metro area maps

CHAPTER 5

Cartography (continued)

RESPONSIBLE UNIT

Division of Planning
Transportation Systems Branch

PROPOSED ACTIVITIES FOR 2010-2011 (continued)

- Cabinet and Planning Project Exhibit Maps/Displays
Task 100% completed:
Provided analysis and resulting map and county listing for annual KYTC statutory certification of counties for Kentucky Rural Economic Development Act.
Created several maps for each District with different sets of data for use in developing District/Regional Transportation Plans
Bicycle maps of District 3 and District 6 for MultiModal
6 maps of Kentucky Speedway area for Secretary meeting with local officials.
Aerial photography maps printed for several waste disposal sites for Mr. Merryman.
Updated legislator photo map as photos became available and as legislative leadership was decided.
11x17 maps of 16 Western Kentucky counties for Maintenance for mosquito eradication program.
Maps of I-75 detour for Sprint Cup at Ky Speedway.
Special map for emergency assistance purposes of Bell County.
Study maps for KY 44 in Spencer County, KY 441 in Middlesboro, KY 3161 and for Middlesboro Small Urban Area study.
- GIS Analyses of various data for transportation decision-making
Task 100% completed as requested:
See above
- General and special purpose maps as requested by other agencies
Task 100% completed as requested:
See above
- Geographic information systems (GIS) electronic files
Task 100% completed:
Reviewed and edited digitized rail lines for all major railroads, more than 300 miles

DISTRIBUTION OF ESTIMATED COST FOR 2010-2011

	2010-2011	Expended	Percent Expended
PERSONNEL	\$415,100	\$271,749	65%
OTHER	\$105,000	\$56,130	53%
TOTAL	\$520,100	\$327,879	63%

CHAPTER 5

Cartography (continued)

RESPONSIBLE UNIT

Division of Planning
Transportation Systems Branch

ESTIMATED OUTSOURCING EXPENSES AND PURCHASES

Outsourcing

- \$150,000 for Technical Assistance program with UK to provide Interns to help with various SPR program items. \$20,733 expended for intern payroll, 14% of budgeted amount. 100% expected task completed.
- \$50,000 for highway map outsourced production assistance. \$1,080 expenditures to Tourism, Arts, and Heritage Cabinet for map design services, 2% of budgeted. Task 100% complete.

Other

- \$100,000 for Official Highway Map Publication. \$56,130 expended for map printing, 56% of budgeted. Task 100% complete.
- \$5,000 Other Operational Cost
For items such as travel, mileage, equipment and other cost directly associated to the completion of this work chapter. \$0.00 expenditures for these items.

CHAPTER 6

Highway Information System

RESPONSIBLE UNIT

Division of Planning
Data Management Branch

PURPOSE AND SCOPE

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

PROPOSED ACTIVITIES FOR 2010-2011

- Work with the Office of Information Technology (OIT) to upgrade the HIS database to the next release of "Highways by EXOR" and deploy to other data owners within the cabinet. Significant progress has taken place. Testing for 4.2 has been accomplished and bugs fixed in the test system, now testing to jump to 4.4 Oracle 11 for faster processing. Purchased 5 new limited access licenses to support the new Coal Haul application that allowed Coal Haul processors direct access to updating their data in HIS.
- Work with OIT to assist with database upgrades that include links, functionality, and data exchange with other division databases. Continuing to work on the link to the Superload application, successfully upgraded the HIS test and Staging databases, Dropped TIM and developed a direct link to the TRADAS database. Successfully updated TED database from HIS on a weekly basis. Tested 50 different tools, 29 GRP's, and 20 service tickets while testing the upgrades.
- Assist with implementation of new Traffic System database including links, functionality, and data exchange between HIS and the new database. Dropped the Traffic Interface Manager and have developed better views and direct connect to HIS for better communication and less overhead from the EXOR TIM tool
- 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. Continuing to process picture X, Y coordinates to snap to the linear network for updated routes and mile points. Continuing to develop the update system to provide a weekly update in the photolog viewer developed by OIT. Still need to develop communication back to Mandli database for better processing time and more timely updates

CHAPTER 6

Highway Information System (continued)

RESPONSIBLE UNIT

Division of Planning
Data Management Branch

PROPOSED ACTIVITIES FOR 2010-2011 (continued)

- Assist with cabinet wide asset management data collection and data dissemination. Developed the District Regional Transportation Plan IMS site using cabinet wide data to assist Planning engineers in making data driven decisions and recommendations to the regional project selection process. Developed new HIS querying application for more efficient data mining and better functionality for exporting data.
- Continue to develop processes and procedures to review, edit, and update Cabinet's base map and HIS database. Beginning to add more data and update existing data to better meet cabinet needs. Developed new Passing Asset for easier update of HPMS related data, In the process of adding 1 way – 2 way segments of roads to cabinet road centerline for better 911, and Planning, Continuing to develop and tweak existing QA/QC processes, Accomplished the procedures needed to meet the new HPMS requirements.
- Assist with testing, training, report migration, and enhancements with the HIS. Worked hand in hand with OIT to develop new HIS querying applications for better reporting and querying of HIS data. Continuing to develop new interactive site to consume spatial HIS data, Developed much metadata for data consumption by customers.
- Assist in the development and maintenance of a Cabinet GIS and maintain database network for Kentucky's public highway system. Updates continue to be made to the database daily as changes are received per official orders or field collections. Changes made through quality assurance checks.
- 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 were made available to submit changes, 109 Counties submitted changes with 22,120 total Change Types to HIS. 7 counties reported no changes. 4 Counties did not respond. 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. 80% completed in updating HPMS section specific data collected by the ADDs.
- Perform office reviews to verify data meets the required standards and confidence levels established by this Division and FHWA. Successfully developed new procedures, QA/QC processes, of the HPMS related data required by the new submittal process.
- Provide up-to-date route network, DMI, roadway characteristics and system information through various programs. Successfully accomplished weekly throughout the entire fiscal year

CHAPTER 6

Highway Information System (continued)

RESPONSIBLE UNIT

Division of Planning
Data Management Branch

PROPOSED ACTIVITIES FOR 2010-2011 (continued)

- Process and submit annual HPMS submittal. This was the first year for submitting with the new HPMS 8.0 software following FHWA's reporting requirements. The software was not complete at the time of submittal. Calculations for capacity and volume service flow not yet available. The software calculated certified miles did not match our in house calculated and signed certified miles. We feel confident in our calculations for our certified public mileage and performed various cross checks on the final numbers. All available data required by the FHWA 2010 HPMS reassessment was submitted in this years HPMS submittal.
- Utilize HPMS to update Rating Indices, Capacity, and Volume/Service Flow ratio in the HIS database. Successfully completed FY-2011 Ratings file in September 2010. FY-2011 Calculations for Capacity and Volume Service Flow not available in the new HPMS submittal software. Ratings information and calculations will be updated with information from the prior versions of the HPMS submittal software.
- Use HIS to measure highway system performance and assist with analyses of the Unscheduled Projects List. Successfully completed for 2010 fiscal year using the old HPMS software calculations. Currently extracting information from HIS and HPMS to provide to KTC for our analysis for project needs for FY-2012.
- Maintain currency of HPMS software and perform changes required by federal legislation, regulations, policies, and/or guidelines, as needed to the HPMS. Attended a workshop in Cincinnati and an HPMS Conference in Washington. Attended and participated in many available webinars over the course of the fiscal year.
- Investigate results of HPMS each year and analyze changes in processes to improve output of report. 2009 HPMS submittal results were discussed with FHWA. KY was commended for a very successful FY-2010 submittal of 2009 data. Very few problems were reported. Federal mileage was on issue and Kevin Bishop worked on contacting several agencies for better information concerning their roads. US Forrest service was one. K and D factors still an issue. Once TRADAS is fully implemented that problem should be taken care of. As of this report, KYTC has not received any review of the 2010 HPMS submittal. KYTC will work throughout the coming months on its reporting process and data requirements for the 2011 HPMS submittal.
- 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 2011

PRODUCTS

- Routines to extract better road information from the GPS files (i.e. vertical grade, horizontal curve) Study completed to determine the validity of the Mandli curve tool. More development needs to be completed by Mandli. Still processing curve and grade for recently gps'd road centerlines.

CHAPTER 6

Highway Information System (continued)

RESPONSIBLE UNIT

Division of Planning
Data Management Branch

PRODUCTS (continued)

- Queries and routines for quality control of the database concerning asset items and road information. New QA/QC tools and queries developed for the new HOPMS requirements in house. Interns using newly developed photolog viewing application to QA/QC the HIS roadway characteristic assets.
- Database and GIS application troubleshooting when errors take place. Weekly checks continue to take place concerning the entire network. Errors reviewed by Friday afternoon to assure complete roadway network along with assets are exported for customer consumption as complete as possible.
- Database and GIS upgrades. Successfully completed upgrade to EXOR 4.2 in test and staging. Beginning to test upgrade to 4.4 in test to see if the production can be leaped to the most up to date version of EXOR.
- Other agency information loaded or linked to HIS database. Photovan images continues to be loaded and snapped to provide the most up to date network locations. Pavement information still continues to be loaded for HPMS report. Beginning to load Adopt A Highway information.
- New roadway centerlines obtained through GPS technology and CAD design files and updates to both the GIS layers and HIS database. 120 counties were made available to submit changes, 109 Counties submitted changes with 22,120 total Change Types to HIS. 7 counties reported no changes. 4 Counties did not respond. 144 New Alignments or Bridge Replacements Processed due to state construction projects.
- New roadway inventory either through field collection or extracted from CAD design files to update the GIS layers and HIS database. Passing inventory being extracted and loaded. 59 counties completed for HPMS section inventory reviewing 4459 sections, to finish all 120 counties over a 2 year collection period.
- New roadway inventory extracted through photo van software. Still developing procedures to collect new assets. Will meet to decide what inventory items need to be extracted on specific time frames and priorities.
- Existing roadway characteristic inventory QC checks from photo van pictures. Started to get accomplished. Currently validating and correcting existing data.
- Transportation Enterprise database updates for cabinet wide consumption of data. Full HIS updated to TED developed and being accomplished weekly.
- Cabinet wide Asset Management updates and route locations to update other divisions. Being accomplished on a weekly basis.
- HPMS 534 and 536 Reports. 534 report completed. Biannual 536 report request to process completed.
- HPMS submittal due June 15, 201. Completed in July 21st due to FHWA processing software issues. 1st year of new submittal requirements.
- Reports created concerning information about transportation network stored in HIS database.
- Provide Certification of Public Road Mileage by June 1. Completed July 21st due to FHWA HPMS software issues with calculating the certified mileage.

CHAPTER 6

Highway Information System (continued)

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

	2010-2011	Expended	Percent Expended
PERSONNEL	\$1,431,100	\$1,456,545	102%
OTHER	\$260,000	\$4,325	2%
TOTAL	\$1,916,100	1,460,870	76%

ESTIMATED OUTSOURCING EXPENSES AND PURCHASES**Outsourcing**

- \$32,000 to outsource 536 report **Estimate for report was very low. The UK Transportation Center advised us that it would cost \$68,000 for the report, \$67,195 expended, 99% of budgeted. Task 100% complete.**
- \$50,000 to outsource for GPSing of roadway changes. **\$0.00 expended.**
- \$250,000 to outsource for Roadway Asset Management Data Collection to several of the 15 ADD's, with contracts less than \$100,000 for each. **\$241,130 expended, 94% of budgeted. Task 100% complete.**
- \$200,000 Asset Management & Support through IT **\$164,401 expended, 82% of budgeted. Task 100% complete.**
- \$100,000 to outsource for Local Road Attribute Data Collection to all of the 15 ADD's, with contracts less than \$100,000 for each. **Originally, planned only to update one-third of the counties. Requested to update all 120 counties. The budget was increased upon FHWA approval. Expended \$236,910. Task 100% complete.**
- \$300,000 to outsource for Asset Management Data extraction from photo van images **\$0.00 expended.**

Other

- \$150,000 for EXOR e-credits **\$0.00 expended**
- \$75,000 Other Operational Cost For items such as travel, mileage, equipment and other cost directly associated to the completion of this work chapter. **\$4,325 expended 6% of budgeted. However, KYTC limited strictly limited travel during FY 2011 as a cost saving measure.**
- \$35,000 computer software maintenance for upgrading HPMS. **\$0.00 expended.**

CHAPTER 7

Strategic Corridor Planning

RESPONSIBLE UNIT

Division of Planning
Strategic Planning Branch
Strategic Corridor Planning Team

PURPOSE AND SCOPE

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

PROPOSED ACTIVITIES FOR 2010-2011

- Continue to develop and update policy and procedures for evaluating corridor level needs.
This task is on-going. We continue to evaluate the policy and procedures for each study, placing emphasis on practical solutions and low-cost improvements. 100% Complete
- Conduct corridor, system, and small urban area studies.
The studies completed (FY 2011) are as follows:
 - US 421 Programming Study, Franklin Co.
 - Middlesboro SUA Study, Bell Co.
 - Morehead SUA Study, Rowan Co.
 - Mountain Parkway Programming Study, Wolfe, Morgan, Magoffin, and Floyd Co.
 - I-71 IJS, Oldham Co.
 - I-71 Proposed Interchange at KY Speedway, Gallatin Co.

The following is a list of studies that were active at FY 2011 and are still underway:

- KY 441 Programming Study, Bell County
- Corbin SUA Study, Knox & Whitley Co.
- Leitchfield SUA Study, Grayson Co.
- Shelbyville SUA Study, Shelby Co.
- KY 44 Scoping Study, Bullitt & Spencer Co.
- I-69 SIU #6, Lyon, Livingston, Marshall, Graves, Hickman, & Fulton Co.
- KY 251, Hardin Co.
- I-265/I-64 Interchange Modification Report, Jefferson Co.
- Mt. Sterling Transportation Study, Montgomery Co.

CHAPTER 7

Strategic Corridor Planning (continued)

RESPONSIBLE UNIT

Division of Planning
Strategic Planning Branch
Strategic Corridor Planning Team

PROPOSED ACTIVITIES FOR 2010-2011 (continued)

- KY 41 Scoping Study, Todd Co.
- US 60 Scoping Study, McCracken Co.
- I-66/I-69 Spurs-Owensboro, Daviess, Ohio, & Henderson Co.
- US 41A, Hopkins & Webster Co.
- KY 80 Traffic Study, Perry Co.
- KY 321 Programming Study, Johnson Co.
- District Transportation Plans

Table 1: Summarization of Work Plan Accomplishments in Corridor Studies located at the end of this document contains a more detailed list of studies active in FY 2011 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. 100% Complete
- 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. 100% Complete
- Oversee outsourced activities.
Several of our studies are done by consultants with the district or the Division of Planning staff acting as the Project Manager. We currently have twelve active planning studies that are outsourced to a consultant. 100% Complete
- 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. We are also assisting the districts in developing district transportation plans based on identified needs to assist with project prioritization. 100% Complete

CHAPTER 7

Strategic Corridor Planning (continued)

RESPONSIBLE UNIT

Division of Planning
 Strategic Planning Branch
 Strategic Corridor Planning Team

PRODUCTS (Please see attached Table at the end of this document for details)

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

COUNTY	PROJECT ID	TYPE OF WORK	ITEM NO.	% OF FY 2011 ACCOMPLISHMENTS COMPLETED
Franklin	US 421 Franklin	Programming Study	05-8109.00	100%
Wolfe, Morgan Magoffin, Floyd	Mountain Parkway	Programming Study	N/A	100%
Bell	KY 441	Programming Study	11-110.00	90%
Lyon, Livingston, Marshall, Graves				
Hickman, Fulton	I-69, SIU #6	Programming Study	N/A	97%
Daviess, Ohio, Henderson	I-66/I-69 SPURS- Owensboro	Programming Study	N/A	In Negotiation
Hardin	KY 251	Scoping Study	04-153.00	100%
Jefferson	I-264/US 42 Interchange	Scoping Study	05-390.00	100%
Todd	KY 41	Scoping Study	03-8630.00	100%
Montgomery	I-64 Corridor	Scoping Study	N/A	100%
Webster, Hopkins	US 41A	Scoping Study	02-8303.00	100%
Bullitt, Spencer	KY 44	Alternative Study	05-396.00	100%
Grayson	Leitchfield	Small Urban Area Study	N/A	99%
Rowan	Morehead	Small Urban Area Study	N/A	100%
Bell	Middleboro	Small Urban Area Study	N/A	100%
Knox, Whitley	Corbin	Small Urban Area Study	N/A	95%
Shelby	Shelbyville	Small Urban Area Study	N/A	100%
Marion	Lebanon	Small Urban Area Study	N/A	On Hold
McCracken	Paducah	Small Urban Area Study	N/A	On Hold
Oldham	I-71 Interchange	IJS	05-8201.10	100%
Jefferson	I-265/I-64 Interchange	IMR	05-21.00	100%
Johnson	KY 321	Programming Study	N/A	100%
Perry	KY 80	Traffic Study	N/A	100%
McCracken	US 60	Scoping Study	01-125.00	100%
Statewide	District Transportation Plans	DTPs	N/A	100%

Six studies were completed during the period of June 16, 2010 to June 16, 2011. Four were done in-house and two were completed by consultants and managed by District and Central Office Staff.

CHAPTER 7

Strategic Corridor Planning (continued)

RESPONSIBLE UNIT

Division of Planning
Strategic Planning Branch
Strategic Corridor Planning Team

PRODUCTS (continued)

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 also developed Environmental Justice reports for many of the studies.

Summarizing, 23 projects have been worked on during the past year, with 6 being completed, and 17 others in various stages of completion. Please refer to the table at the end of this document to see percentages of projects complete and percentage of FY 11 project goals that were met.

- Data Needs Analysis Studies
A DNA Study for Six-Year Plan and Unscheduled Projects.
DNA studies have been completed for Item Numbers 10-140.00, 4-1068.00, 4-1069.00, 6-8405.00, 12-8405.00, 12-8631.00, 6-1068.00, 8-1049.00, 10-1093.00, 11-147.00, 3-8401.00, 5-8300.00, 7-1118.00, 7-1116.00, 11-1079.00, and 12-1085.00. Several other DNA studies are in various stages of development. 100% Complete
- Priorities for Highway Plan Programming

DISTRIBUTION OF ESTIMATED COST FOR 2010-2011

	2010-2011	Expended	Percent Expended
PERSONNEL	\$1,035,100	\$674,696	65%
OTHER	\$20,000	\$4,805	24%
TOTAL	\$1,055,100	\$679,501	64%

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. \$133,101 expended, 19% of budgeted.

Other

- \$20,000 Other Operational Cost
For items such as travel, mileage, equipment and other cost directly associated to the completion of this work chapter. \$4,805 expended, 24% of budgeted.

CHAPTER 8

Statewide Transportation Planning

RESPONSIBLE UNIT

Division of Planning
Strategic Planning Branch

PURPOSE AND SCOPE

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

PROPOSED ACTIVITIES FOR 2010-2011

- Review and update the STP document as needed.
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% Complete
- 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% Complete
- 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% Complete
- 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)
Managed upload and rectification of data into Online Project Identification Form (PIF) application. Develop/distribute Adequacy Ratings and Unscheduled Project Listing (UPL) data and Shapefiles. Consulted with Keith Dotson and Enterprise Data Branch to properly display UPL projects on newly developed Interactive Map for Regional Planning purposes. Administered Rural Consultation Survey for the purpose of soliciting input on the effectiveness of the Regional Planning Program as administered through the Area Development Districts. 100% Complete

CHAPTER 8

Statewide Transportation Planning (continued)

RESPONSIBLE UNIT

Division of Planning
Strategic Planning Branch

PROPOSED ACTIVITIES FOR 2010-2011 (continued)

- Identify, evaluate, and prioritize transportation projects through data analysis and public involvement.
Managed upload and rectification of data into Online Project Identification Form (PIF) application
Presented Highway Information System data at July 2010 STP for training purposes
Coordinated with Data Management Branch to develop and distribut Adequacy Ratings and Unscheduled Project Listing (UPL) data and Shapefiles 100% Complete
- Coordinate/implement the conversion of the Project Identification Form/Unscheduled Projects List database to one consolidated database.
Managed upload and rectification of data into Online Project Identification Form (PIF) application.
- Coordinate with other Divisions, Districts, and Agencies and incorporate applicable plans as necessary to ensure SAFETEA-LU compliance.
Coordinated with Administrative Districts (ADD's) for public involvement in the Prioritization Process.
Work with ADD's in completing Environmental Justice Reports and Footprints for use in conjunction with studies across the state.
Assisted with developement of procedures to be used in conjunction with the newly defined District Regional Transportation Plans. 100% Complete
- Coordinate and oversee the ADD Regional Transportation Program.
Continuous 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.)

PRODUCTS

- Statewide Transportation Plan updates as needed
None. Reviewed document and found no changes needed at this time. We will update in accordance with changes expected with regard to the next reauthorization.
- Unscheduled Projects List database
Oversaw addition and removal of selected projects from UPL as directed by ADD/MPO/HDO partnerships and agreement.
- Project Identification Forms conversion to new web based format
Managed upload and rectification of data into Online Project Identification Form (PIF) application.
- Annual Work Programs and Contracts for 15 Area Development Districts
Restructured Annual Work Plan for alignment with internal practices
Clarified deliverables and their due dates
Completed contract process starting in March and ending in June

CHAPTER 8

Statewide Transportation Planning (continued)

RESPONSIBLE UNIT

Division of Planning
Strategic Planning Branch

PRODUCTS (continued)

- Four Statewide Transportation Planning Meetings
Completed all four meetings – July 21, 2010, Oct. 21, 2010, Jan. 19, 2011, April 13, 2011
- Individual ADD Planner Assessments
Held Annual Assessment regarding ADD Planners and Statewide Planning Products.
Collected, analyzed and responded to questions and concerns collected during Annual Assessment

DISTRIBUTION OF ESTIMATED COST FOR 2010-2011

	2010-2011	Expended	Percent Expended
PERSONNEL	\$745,300	\$636,398	85%
OTHER	\$35,000	\$11,134	32%
TOTAL	\$780,300	\$647,532	83%

ESTIMATED OUTSOURCING EXPENSES AND PURCHASES

- \$75,000 to outsource for research or assistance related to Statewide Planning \$29,909 expended, 40% of budgeted amount. Task 100% complete for FY 2011.

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 2010-2011

- Review and implement changes to the MPO planning process as a result of an expected new federal transportation bill. 0% complete. There has been no new federal transportation bill.
- Incorporate statewide changes and provide data, analysis, and support in implementation of new Census 2010 data within the planning process including activities such as updating the PL distribution formula, coordinating the review of MPO urban boundaries, responding if new MPOs are identified, etc. 20% complete. Some data from Census 2010 has been released; however, there are still currently challenges in place and the population totals for each metropolitan area have not been finalized. No new metropolitan areas were identified for Kentucky. The MPOs will begin identification of updated urban boundaries and incorporating the population data into their planning documents during FY 2012. PL formula recalculation using 2010 Census data will be incorporated for the FY 2013 UPWP cycle. The finalized population totals were not released in time to use the data for the FY 2012 UPWP cycle.
- Provide technical assistance and oversight review of MPO activities, programs, documents, models and/or tools. 100% complete on schedule. Completed daily monitoring, reviewing, and recommending improvements to MPO activities. 57 non-specific MPO meetings, 38 conference and/or training meetings took place to maintain knowledge and understanding of MPO requirements.
- Attend technical, policy, and other committee meetings to represent the Cabinet. 100% complete on schedule. 42 Policy, 55 Technical, and 83 other committee meetings were attended during the year.
- Conduct contract management and oversight for federal funds. 100% complete on schedule. All contracts, invoices, and auditing requirements were met as expected.

CHAPTER 9

Metropolitan Planning Organizations (continued)

(Areas over 50,000 Population)

RESPONSIBLE UNIT

Division of Planning
Strategic Planning Branch
MPO Team

PROPOSED ACTIVITIES FOR 2010-2011 (continued)

- Ensure consistency between local and state plans and programs. 90% complete, behind schedule. Coordination continued for encouraging consistency across the state while providing flexibility for local and regional variances. STIP and TIP reconciliation effort began in 2nd quarter and continued through the 4th quarter. The Louisville MPO has reconciled the first 24 months of the STIP/TIP, and continued to work through the reconciliation effort for the outer years. The final reconciliation for the Louisville MPO is expected to be submitted during the first quarter FY 2012. All other MPOs were reconciled to the STIP/TIP during the fiscal year.
- Coordinate with other transportation modes to obtain input on multimodal issues for the Metropolitan Transportation Plans (MTPs). 100% complete, on schedule. Coordination continued with Office of Transportation Delivery for transit and the Division of Planning's Modal Branch on bicycle, pedestrian, freight, and other modes.
- Work with the MPOs and Highway District Offices (HDOs) on Project Identification Forms (PIFs), data collection, and training. 100% complete, on schedule. All expected deliverables and deadlines were met.
- Conduct four regular statewide meetings. 100% complete, on schedule. Four statewide meetings were held during FY 2011. KYTC and the MPOs communicated through e-mail and telephone to coordinate on any issues and ensure consistency during the 3rd quarter statewide meeting, when the MPO breakout session was cancelled.
- Coordinate with the Transportation Management Areas (TMAs) on the programming and tracking of dedicated Federal Statewide Transportation Program (STP) funded projects and the development of compliant Congestion Management Processes (CMPs). 100% complete, on schedule. Coordination continued to ensure federal transportation requirements are being met by TMAs.
- Coordinate with MPOs on air quality issues, analysis, and conformity. 100% complete, on schedule. Coordination continued to educate and cooperatively work with MPOs to address air quality issues.

PRODUCTS

- Assistance to MPOs in preparing compliant Transportation Improvement Programs (TIPs), MTPs, Participation Plans (PPs), CMP's and UPWP's 100% complete, on schedule. 3 new MTPs, 5 new TIPs, 25 TIP Amendments, 54 TIP Administrative Modifications, and 3 Participation Plans were approved during FY 2011. 11 original or revised Performance and Expenditure reports were submitted for review. 10 original or revised Annual Obligation reports were submitted for review.
- MPO Self Certifications (participant) 100% complete, on schedule. 6 new Self-Certifications were approved during FY 2011.

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

- Establish new MPOs as identified by Census 2010 100% complete, on schedule. No new MPO areas were identified by Census 2010. No challenges are expected that will result in a new MPO area for Kentucky.
- Assistance to MPOs in updating their urban boundaries 10% complete, behind schedule. MPO Team assisted in preparing the MPOs to be prepared for urban boundary updates. MPOs did not receive the tools and directions from Census to update urban boundaries during FY 2012, but will be prepared to do so in FY 2012.
- Updated MPO PL distribution formula 0% complete. MPO PL distribution formula update will take place during next FY (July 1, 2011 – June 30, 2012), as the Census 2010 data for MPO finalized population totals were not released in time for FY 2012 UPWP distribution.
- MPO UPWP Contracts and administration 100% complete, on schedule. 19 total UPWP contracts were monitored for necessary oversight activities during FY 2011.
- MPO dedicated STP fund contracts and administration 100% complete, on schedule. 16 STP contracts and 2 other contracts were monitored for necessary oversight activities during the fiscal year 2011.
- Four Statewide Transportation Planning Meetings 100% complete, on schedule. One STP meeting was held during the 3rd quarter, though the meeting did not have a separate MPO session. E-mail was used as an alternative to provide additional updated information.
- Special Studies 100% complete, on schedule. 4 ongoing studies are being monitored.
- LPA Guidance Manual 100% complete, on schedule. A notice was provided to the consultant that the LPA Guidance Manual will be completed in-house by KYTC staff. Close-out for the consultant contract was completed during the 4th quarter.

DISTRIBUTION OF ESTIMATED COST FOR 2010-2011

	2010-2011	Expended	Percent Expended
PERSONNEL	\$537,200	\$465,077	87%
OTHER	\$25,000	\$3,952	16%
TOTAL	\$562,200	\$469,029	83%

CHAPTER 9

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

RESPONSIBLE UNIT

Division of Planning
Strategic Planning Branch
MPO Team

ESTIMATED OUTSOURCING EXPENSES AND PURCHASES

Outsourcing

- \$50,000 ~~\$0.00~~ expended during FY 2011 for LPA Training and other studies

Other

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

CHAPTER 10

Air Quality

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch
Air Quality Team

PURPOSE AND SCOPE

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

PROPOSED ACTIVITIES FOR 2010-2011

- Host and/or participate in interagency consultation calls regarding transportation conformity for updates and amendments to MTP plans, TIPs, and STIP. **Participated in KIPDA and Clarksville IAC calls for TIP and Plan amendments. Run the current emissions model for ozone and PM2.5 regional air quality conformity analyses for Ashland and Christian County areas as well as other newly designated areas. No new runs required. 90% 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. **Continued to follow the status of the pending new 8-hour ozone standard and kept KYTC staff informed. Maintained knowledge of current regulations. 100% Complete**
- Facilitate monthly conference calls with federal, state, and local partners to discuss timely air quality regulations and conformity issues. **Held statewide air quality conference call; held air quality partners conference call to discuss public education response to pending ozone standard change. 50% Complete**
- 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. **Kept KYTC staff up to date on EPA's change in schedule for announcing the new ozone standard. Kept KYTC staff informed on what different scenarios for the new ozone standard would mean regarding potential nonattainment areas. 85% Complete**
- Provide VMT and speeds to DAQ for their development of the State Implementation Plans (SIPs) for non-attainment and maintenance areas. **Developed VMT and speeds for Boyd County and nonattainment portion of Lawrence County for PM2.5 redesignation analysis; worked with Melissa Brown to get Lawrence VMT. Data was provided to Allison M. Fluit, Kimley-Horn and Associates, Inc. who developed the MOVES files and prepared the emissions analysis for KYOVA and the Kentucky areas as well. 100% Complete**

CHAPTER 10

Air Quality (continued)

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch
Air Quality Team

PROPOSED ACTIVITIES FOR 2010-2011 (continued)

- 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. **Participated in several IAC calls to develop MOVES data. Worked closely with Allison Fluitt to develop MOVES files. Provided support to the Office of Local Government for CMAQ related issues, as needed. Provided information for old CMAQ projects that were approaching funding time limit. 80%.**
- Assist District Offices with the preparation of CMAQ applications including emission calculations and documentation. **No activity. 0% Complete**
- Maintain a working knowledge of emerging issues and best practices, such as diesel emissions reduction strategies and greenhouse gases. **Attended several Southeast Diesel Collaborative calls; continued to work with Kentucky Climate Action Plan Council (KCAPC); lead KCAPC Transportation Land Use technical workgroups for livability and alternative fuels to develop recommended strategy; attended FHWA sponsored Midwest **Adaptation** Peer Exchange in Indianapolis; attended FHWA sponsored Peer Exchange: The Role of State Departments of Transportation (DOT's) in Climate Change **Mitigation** in Baltimore; attended several AASHTO sponsored climate change webinars. 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. **Attended Southeast Diesel Collaborative Freight workgroup calls; attended Talking Freight calls. 50% Complete**
- Implement highway construction CMAQ diesel retrofit project. **No progress; need to check into to see if should close. 0% Complete**
- Implement KYTC Division of Equipment CMAQ diesel retrofit project. **Discussed with Eddie Harrod and provided all information and contacts for him to pursue; he can handle through his purchasing and deal directly with the Office of Local Programs. 100% Complete**
- Implement Central Kentucky Vanpool CMAQ project if approved. **This project is on hold due to CMAQ funds being unavailable. Availability of future CMAQ funding is unknown, the vanpool project will have to be reinitiated if CMAQ funds become available; Application was shared with UK group (Mei Chen) looking at feasibility of pursuing such a project. 100% Complete**
- Develop working knowledge of MOVES, EPA's current mobile emissions model. **Attended MOVES 2-day training class; continued to work with Kentucky MOVES pilot group to develop MOVES data and run specs for Ashland area. 100% Complete**
- Manage 2011 Air Quality Media Campaign. **No 2011 campaign. 0% 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. **100% complete**
- Conforming statewide and MPO planning documents **100% complete**
- Supply data to Division of Air Quality **100% complete**
- Emission calculations for CMAQ, GHG/CC as needed. **100% complete**

DISTRIBUTION OF ESTIMATED COST FOR 2010-2011

	2010-2011	Expended	Percent Expended
PERSONNEL	\$131,800	\$103,576	79%
OTHER	\$5,000	\$673	13%
TOTAL	\$136,800	\$104,249	76%

ESTIMATED OUTSOURCING EXPENSES AND PURCHASES

Outsourcing

- \$20,000 Greenhouse Gas/Climate Change and Land Use training **\$0.00 expended.**
- \$30,000 Travel Time Reliability and Incidents research **\$0.00 expended.**

Other

- \$5,000 Other Operational Cost

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

CHAPTER 11

Multimodal Freight Transportation

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch

PURPOSE AND SCOPE

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

PROPOSED ACTIVITIES FOR 2010-2011

Public Riverports

- Develop an implementation plan based on the Kentucky Riverport Improvement Project. Kentucky Public Riverports were successful in getting legislation passed that established Water Transportation Advisory Board. The members of the board have been appointed by the governor and the first meeting was held December 2. Meetings have also been held on January 21, April 7, and June 9. 100% Complete
- Develop Kentucky's guidelines for public riverport applications to submit to the Secretary's Office for approval. Review and approve any public riverport applications received for grants. One inquiry was made about creating a public Riverport, but no public Riverport applications or grant applications have been received to date. 100% Complete
- Plan and host Riverport Meeting as needed. Kentucky Association of Riverports held a meeting on October 29th with KYTC in attendance. The need for a KYTC sponsored Riverport Meeting was determined by the Riverports to be unnecessary. 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 staff made a presentation to the Waterways Subcommittee on September 7, 2010 on our role with the waterways. KYTC staff has attended all of the other Waterways Subcommittee meetings. KYTC serves as the administrative staff support for the Kentucky Association of Riverports and assisted with the KAR meeting held on October 29th. KYTC also updated the 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). Due to travel budgetary constraints, KYTC staff did not attend SCOWT Annual Meeting, but did participate in the business meetings via conference call. 100% Complete

CHAPTER 11

Multimodal Freight Transportation (continued)

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch

PROPOSED ACTIVITIES FOR 2010-2011 (continued)

- Conduct annual on-site visits of active public riverports in the state. Site visits have been conducted of the active Riverports of Eddyville Riverport and Industrial Development Authority, Paducah-McCracken County Riverport Authority, Hickman-Fulton County Riverport Authority, and Owensboro Riverport Authority. Developing Riverport site visits have also been conducted with Marshall County Riverport Authority. A site visit to developing Riverport Wickliffe-Ballard Riverport Authority was also scheduled, but was canceled by the locals due to a scheduling conflict. A conference call updating on their activities was conducted in lieu of a site visit. Travel budget restrictions preventing conducting site visits of the remaining public Riverports. 50% Complete

Railroads

- Administer KYTC's TIGER Grant Project with RJ Corman Railroad. KYTC staff attended Railroad Engineering training in preparation for this responsibility. KYTC staff has also participated in countless meetings and conference calls coordinating the Environmental Clearance for the project, Consultant inspection, USDOT contracts, RJ Corman contracts, etc. KYTC staff also participated in a pre-construction hy-rail inspection of all of RJ Corman rail lines. KYTC staff continues to administer the grant including approving invoices, construction inspection, and consultant oversight. 100% Complete
- Participate in the passenger high speed rail study with GADOT and TN DOT with the Office of Transportation Delivery. The Office of Transportation Delivery has not requested the input of the Division of Planning on this study to date. 100% Complete
- 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. Currently being compiled by Transportation Systems branch. 100% Complete
- Update the 2002 Kentucky Statewide Rail Plan to meet current requirements (From the Passenger Rail Investment and Improvement Act (PRIIA) of 2008). Due to budgetary constraints, the complete update of the Statewide Rail Plan was postponed but the contact information was updated. 100% Complete
- Participate in various rail studies and research with KYTC involvement. Division of Planning staff provided input into an ongoing study with KTC and the Division of Right of Way and Utilities 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

CHAPTER 11

Multimodal Freight Transportation (continued)

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch

PROPOSED ACTIVITIES FOR 2010-2011 (continued)

- 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 has participated in conference calls and webinars whenever available. KYTC staff is 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. One rail abandonment notice was received and was distributed to relevant agencies for comment and action. 100% Complete
- Review need to update the 1999 passenger rail feasibility study. Due to budgetary constraints, it was determined that an update of the passenger rail feasibility study was unnecessary 100% Complete
- Respond to public inquiries on passenger and freight rail issues. KYTC staff has responded to numerous letters and emails for information about rail issues. 100% Complete
Due to new legislation in the 2010 Session, Modal Programs created the Kentucky Shortline Railroad Assistance (KSRA) Grant with \$2 million in funds for FY 2011 and FY 2012. Modal staff was responsible for developing solicitation of grant, programming of funds, contracts, pre-inspections, contract development, construction inspection, material sampling, coordination of permits, invoice review, and final inspections. Working with KYTC Legal, staff created an application and recommended guidance for the KSRA grant. The grant was advertised; applications were received, evaluated, prioritized and sent to the KYTC Secretary for awards and announcements. Twelve applications were received. Eleven projects were awarded, using both FY 11 and FY12 funding totalling nearly \$4 million. Staff began the contracting process with the shortline railroads. Coordination with the Office of Local Programs was necessary, due to contract overlaps. Coordination with RJC TIGER was also necessary. Staff developed procedures for railroad public interest findings for equipment, manpower, and materials; pre-inspection procedures and documentation; coordination with HDO for permits, material sampling, traffic control plans, maintenance of traffic, and public notification. Contracts are ongoing. 100% complete.

CHAPTER 11

Multimodal Freight Transportation (continued)

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch

PROPOSED ACTIVITIES FOR 2010-2011 (continued)

Freight

- Provide technical assistance and disseminate information to MPOs, ADDs, and project teams regarding freight movement, planning, and safety. 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 attends and presents at Statewide Transportation Planning meetings. 100% Complete
- Update the truck parking availability information along Kentucky interstates and parkways. To date, ADD staff has not identified 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 Mid America Freight Coalition (MAFC). 100% Complete
- Continue involvement with Delta Regional Authority (DRA), Mississippi Valley Freight Coalition (MFVC), Institute for Trade and Transportation Studies (ITTS), and National Cooperative Freight Research Program (NCFRP). KYTC staff regularly participates in conference calls for these coalitions and attended the MVFC (now Mid-America Freight Coalition) Annual Meeting in St. Louis, MO and the ITTS Annual Conference in Charlotte, NC. 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 site visit trips throughout the state that included two rail intermodal facilities, three railroads, one recreational railroad, two Amtrak stations, four active Riverports, two developing Riverports, five state funded ferry operations, one privately funded ferry operation, and two lock & dam facilities. Travel restrictions preventing conducting site visits of additional facilities. 100% Complete
- Continue developing relationships with Economic Development and Commerce to identify and promote intermodal freight needs. KYTC staff has held several meetings with Economic development staff to discuss partnering on Corp of Engineers study. 100% Complete
- Research, prepare and populate information for FHWA Intermodal Connector Assessment Tool (ICAT). KYTC staff has populated the FHWA Intermodal Connector Assessment Tool. 100% Complete

Ferryboats

- Coordinate the Kentucky Ferryboat program. KYTC staff provides ongoing oversight on the operation of 7 state funded ferries and is responsible for all of the contracting and invoicing of these ferries. 100% Complete

CHAPTER 11

Multimodal Freight Transportation (continued)

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch

PROPOSED ACTIVITIES FOR 2010-2011 (continued)

- Share information concerning Ferryboat Discretionary Fund (FBD) Grant program. Review and prioritize applications received for submitting to the State Highway Engineer's Office and the Secretary's Office for approval. Administer FBD funds. FHWA will be provided all applications for review and approval. KYTC staff is currently managing three ARRA FBD awards. KYTC was also awarded one new FBD award and one joint award with Ohio. KYTC staff has met with Ohio DOT to begin managing that award. KYTC staff reviewed and prioritized two new FBD applications. 100% Complete
- Plan and host the Ferryboat Meeting as needed. The ferryboat operators determined that there was no need for a Ferryboat Annual Meeting. 100% Complete
- Conduct annual on-site visits of Kentucky Ferryboat Operations. KYTC staff conducted on-site visits of the state funded Augusta Ferry, Dorena-Hickman Ferry, Reeds Ferry, Rochester Ferry, and Valley View Ferry. The privately funded Anderson Ferry was also visited. Travel restrictions preventing conducting site visits of the remaining ferry operations. 60% Complete

PRODUCTS

- Riverport Implementation Plan Kentucky Public Riverports were successful in getting legislation passed that established Water Transportation Advisory Board. The members of the board have been appointed by the governor and the first meeting was held December 2. Meetings have also been held on January 21, April 7, and June 9. 100% Complete
- Revised riverport application guidelines. One inquiry was made about creating a public Riverport, but no public Riverport applications or grant applications have been received to date. 100% Complete
- Updated Statewide Rail Plan Due to budgetary constraints, the complete update of the Statewide Rail Plan was postponed but the contact information was updated. 100% Complete
- Updating railroad GIS database and maps for KYTC purposes Worked with all active railroads within the Commonwealth to obtain GIS layers of all railroad track owned within Kentucky. Currently being compiled by Transportation Systems branch. 100% Complete
- Truck Parking along Kentucky Interstates and Parkways Study database and map. To date, ADD staff has not identified any changes that need to be made to the truck parking availability information along Kentucky interstates and parkways. 100% Complete
- Working ferryboat operations KYTC staff provides ongoing oversight on the operation of 7 state funded ferries and is responsible for all of the contracting and invoicing of these ferries. 100% Complete
- ICAT documentation KYTC staff has populated the FHWA Intermodal Connector Assessment Tool. 100% Complete
- High Speed Passenger Rail Feasibility Study with GADOT and TNDOT. The Office of Transportation Delivery has not requested the input of the Division of Planning on this study to date. 100% Complete

CHAPTER 11

Multimodal Freight Transportation (continued)

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch

PRODUCTS (continued)

- FBD application prioritization KYTC staff is currently managing three ARRA FBD awards. KYTC was also awarded one new FBD award and one joint award with Ohio. KYTC staff has met with Ohio DOT to begin managing that award. KYTC staff reviewed and prioritized two new FBD applications. 100% Complete
- Annual Waterways meeting as needed The need for a KYTC sponsored Riverport Meeting and Ferryboat Annual Meeting was determined to be unnecessary. (100% complete)
- Annual Railroad report KYTC staff sent letters to all operating railroads within Kentucky requesting annual reports and compiled those submitted. 100% Complete
- RJ Corman Tiger Grant administration KYTC staff attended Railroad Engineering training in preparation for this responsibility. KYTC staff has also participated in countless meetings and conference calls coordinating the Environmental Clearance for the project, Consultant inspection, USDOT contracts, RJ Corman contracts, etc. KYTC staff also participated in a pre-construction hy-rail inspection of all of RJ Corman rail lines. KYTC staff continues to administer the grant including approving invoices, construction inspection, and consultant oversight. 100% Complete
- KSRA Grant Program development of application, guidelines, public interest finding procedures, contracts, pre/post inspection reports, construction inspection, invoice review and approvals. 100% complete

DISTRIBUTION OF ESTIMATED COST FOR 2010-2011

	2010-2011	Expended	Percent Expended
PERSONNEL	\$191,300	\$98,865	52%
OTHER	\$70,000	\$3,226	5%
TOTAL	\$261,300	\$102,091	39%

ESTIMATED OUTSOURCING EXPENSES AND PURCHASES

Outsourcing

- \$100,000 \$0.00 expended to date Rail Plan

Other

- \$5,000 \$5,000 expended in FY 12, task 100% complete in June 2011 Operation Lifesaver
- \$5,000 \$0.00 expended to date Kentucky Association of Riverports Dues
- \$10,000 \$3,226 expended, 32% of budget Other Operational Cost

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

CHAPTER 11

Multimodal Freight Transportation (continued)

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch

ESTIMATED OUTSOURCING EXPENSES AND PURCHASES (continued)

Items paid from other funding sources

- \$50,000 **\$50,000 expended, task 100% complete** Tombigbee Waterway Dues are paid through Regional Planning (EA51 General Fund).
- \$25,000 **Not paid to date** Mississippi Valley Freight Coalition, an AASHTO subcommittee paid as a pooled fund study transfer of L550 funds
- \$25,000 **Not paid to date** Institute for Trade and Transportation Studies, a SAASHTO subcommittee paid as a pooled fund study transfer of L550 funds

CHAPTER 12

Congestion, Mobility, and Access Management

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch

PURPOSE AND SCOPE

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

PROPOSED ACTIVITIES FOR 2010-2011

Measure Mobility & Identify Congestion

- Acquire 2009 and 2010 speed data for freeways and arterials statewide. **Worked with KTC to purchase data. 50% complete.**
- Complete the development of mobility performance measures compatible with the speed data and HPMS traffic volumes. **Completed analysis for 2009 data. 100% complete**
- Refine the mobility component of the Adequacy Rating system using new performance measures. **No Action**
- Develop GIS-based maps to aid in the identification of mobility and congestion related issues. **No Action.**
- Create the first Annual Congestion Report for calendar year 2010 showing current conditions and trends (changes) over time. **No Action.**
- Assist TMAs to develop and implement performance measures into their congestion management process. **No Action.**
- Assist planners and designers in using mobility measures in studies and projects. **No Action.**
- Fund participation in the Texas Transportation Institute's (TTI) pooled-funded Urban Mobility Study. There are several elements of research that affects measuring mobility. **Staff participated in conference calls and emails updating information and analysis. Staff participated in annual meeting in June 2011. 100% complete.**

Provide Information and Educate about Congestion Management Measures

- Update and maintain the web-based Kentucky Congestion Mitigation Toolbox. **100% complete**
- Assist local governments in the development of local management programs when requested. **Bowling Green looking at sample criteria. 100% complete**
- Research the impacts of varying levels of connectivity on the traffic volumes, congestion, and VMT on state roadways. **No action.**
- Continue the update of the Planning Units (planning & zoning) GIS database. **Received updates from ADDS. 100% complete.**
- Maintain a park and ride GIS database of existing assets. **Received updates from ADDS. 100% complete.**
- Provide information and technical assistance on intersection planning, when requested. **Staff transitioned research to SPAC branch. 100% complete**

CHAPTER 12

Congestion, Mobility, and Access Management (continued)

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch

PROPOSED ACTIVITIES FOR 2010-2011 (continued)

- Educate HDO, MPOs, ADDs, and local staff about connectivity. **No Action.**

Congestion Initiatives

- Research Ramp Metering as a planning tool for congestion reduction. **Transition this research to D-6. 100% complete.**
- Implement a Statewide Vanpool Program with assistance as directed by KYTC management and Finance Cabinet. **No Action. 100% Complete**

PRODUCTS

- Maps and database of mobility measures on freeways and arterials. **100% complete**
- Annual Congestion Report. **No Action.**
- Updated Congestion Toolbox website. **100% complete.**
- Updated Park and Ride GIS Database. **100% complete**
- Updated Planning Unit Database **100% complete**
- Creation of a new Statewide Vanpool Program, if approved by the Secretary. **No Action.**
- Research findings on impacts of connectivity and ramp metering. **100% complete.**

DISTRIBUTION OF ESTIMATED COST FOR 2010-2011

	2010-2011	Expended	Percent Expended
PERSONNEL	\$129,900	\$31,694	24%
OTHER	\$15,000	\$0.00	0%
TOTAL	\$144,900	\$31,694	22%

ESTIMATED OUTSOURCING EXPENSES AND PURCHASES

Outsourcing

- \$80,000 **\$0.00 expended to date** for speed (mobility) data for calendar year 2010

Other

- \$10,000 **not paid to date** for 2010 for TTI Urban Mobility Study (pooled-fund study)
- \$5,000 Other Operational Cost
For items such as travel, mileage, equipment and other cost directly associated to the completion of this work chapter.

CHAPTER 13

Traffic Data Forecasting Statewide Traffic Model

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch
Forecasting and Modeling Team

PURPOSE AND SCOPE

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

PROPOSED ACTIVITIES FOR 2010-2011

- Prepare traffic estimates for planning studies, design projects, road user costs, maintenance, and other purposes, as needed.
Received 18 traffic forecast requests and completed 17 reports. Overall, 60 forecast requests were received and 50 reports were completed, with 16 forecasts and 3 modeling projects open. 100% Complete
- Administer statewide traffic forecasting contracts and provide quality review for traffic projections made by the MPOs and planning consultants.
Initiated 4 new traffic forecasting contracts with 4 other contracted forecasts completed during the quarter. Overall, 8 forecast and 3 modeling contracts were initiated and 11 contracts completed. At year end, 4 forecasting and 3 modeling contracts are still open. 100% Complete
- 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% Complete
- Maintain and update internal traffic forecasting tools (e.g. ESAL spreadsheets; turning movement spreadsheets).
Maintained ESAL and turning movement spreadsheets. 100% Complete
- Provide future year forecasting of K-factors/D-factors for the Highway Performance Monitoring System (HPMS) and compare result with TRADAS outputs.
Developed factors from ATR data for HPMS. TRADAS is not fully operational, so comparison was deferred. 100% Complete
- 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 as requested. 100% complete
- Update ESAL Forecasting for Superpave computer program
Awaiting WIM site optimization and operation. 0% Complete
- Update the annual Traffic Forecast Report (TFR) utilizing KTC.
Due to delay of the WIM data, we deferred the update until 2012. 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)

- 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 led the November, 2010 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.
Traffic Model Users Group Meeting held on June 14, 2011. 100% Complete
- Develop refinements and incorporate into KySTM model including the socio-economic data from MPO models. Document the process.
Continued to sit on a blue ribbon panel to generate Time of Day results using KIPDA's current year model. A second phase with incorporate updates using 2007 estimated SE data. Continuing progress toward the development of a 2040 Statewide model. 100% Complete
- 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.
Utilizing HCM2010 into the Statewide model to develop Capacity and Speed variables. 100% Complete
- Identify areas needing an area-wide model. Develop small area and county-wide models using a standardized interface.
Future model development is awaiting EPA's Air Quality thresholds to prioritize new models. Initiated the development of models for Clark County and Simpson County to create 2035 scenarios. 100% Complete

PRODUCTS

- Corridor or other traffic forecasts as requested
50 Forecast reports were completed during the year. 100% Complete.
- Travel Time and Road User Cost Studies
Five Travel Time Studies were conducted with modeling efforts in Simpson, Jefferson/Oldham, US68 in Fayette, roundabout in Warren, and US25 in Laurel counties. 100% Complete
- Traffic forecast factors for HPMS
100 % Completed
- Design tools for consultants and District (e.g. ESAL Calculator; look-up tables)
Waiting for validated WIM data. 0% Complete
City/County/MPO & Statewide Traffic Models included,
2010 KYSTM update 25% Complete
McCracken County, 100% Complete
Madison County, 100% Complete
Laurel/Pulaski Counties, 100% Complete

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 2010-2011

	2010-2011	Expended	Percent Expended
PERSONNEL	\$404,000	\$298,059	74%
OTHER	\$5,000	\$1,771	35%
TOTAL	\$459,000	\$299,830	65%

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. One model is under development for Madison 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. They will work to expand non-motorized transportation opportunities in Kentucky by providing assistance to state and local governments and other groups, as requested. This assistance will be in the form of technical advice, development of plans, and coordinating studies. The responsibility of the Kentucky Pedestrian and Bicycle Coordinator is to prepare, assist, and promote bicycle and safety programs throughout the state and to recommend opportunities for bicycle-pedestrian facilities for proposed highway improvements. The Bicycle and Pedestrian Coordinator will also act as secretariat for the Kentucky Bicycle and Bikeway Commission to provide assistance to the general public, municipal governments, and other state agencies in the planning and development of bicycle and pedestrian facilities and programs.

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

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

PROPOSED ACTIVITIES FOR 2010-2011

Planning

- Assist local governments in the development of local bicycle and pedestrian network facilities and plan using bikeability and walkability audits. **Worked with Health and Families Cabinet to facilitate walkability audits. Staff participated in audit for Harrodsburg. 100% complete.**
- Participate in the KYTC Strategic Safety Plan update. **Worked with the Division of Safety to create verbiage to be included in the cabinet's plan. 100% complete.**
- Revise and update the statewide bike tour system and associated maps. **Meeting with American Cycling Association regarding new National Bike Route from Louisville to Cincinnati USBR25. Assist in application for changes to the National Bike Route TransAmerica Trail. Work delayed due to loss of staff. 25% Complete**
- Review and update the Kentucky Bicycle and Pedestrian Plan. Review and revise the Kentucky Pedestrian and Bicycle Travel Policy, as needed. **KBBC offered suggestions to revise the KYTC Policy. Suggestions were reviewed and incorporated where appropriate. 100% complete.**

CHAPTER 14

Bicycle and Pedestrian Program (continued)

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch

PROPOSED ACTIVITIES FOR 2010-2011 (continued)

Engineering and Projects

- Answer requests concerning planning and design guidelines regarding pedestrian and bicycle facilities and provide review of bicycle and pedestrian projects and facilities with KYTC's HDO and CO Divisions, ADDs, MPOs, and local government. **Coordination with public regarding bike/ped questions. Worked with D-5 on several projects as a member of the project team. 100% complete**
- Review the list of proposed resurfacing projects for opportunities to improve biking and walking facilities through restriping and other improvements as part of Maintenance activities. **Received questions on using the Striping Guide from several District Maintenance staff. Assisted in evaluating appropriate striping plan for location. 100% complete.**
- Review Share the Road sign requests for applicability and proper system placement. **Coordinated with D-7, D-6, and D-4 on locating Share the Road signs. District 12 placed several Bike Route Named Signs while coordinating with neighboring states. 100% complete.**
- Develop in coordination with HDO, Maintenance, Traffic Operations, Design, and Planning Share the Road sign procedures for review, placement, and maintenance. **Share the Road signage will come through Bike/Ped Coordinator for review and approval. The coordinator will make application for the signage within the District. 100% complete**
- Provide the Lane Reconfiguration Guide to KYTC district Maintenance and Traffic staff. Update as need with their input. **Presented the Lane Configuration Guide at the Partnering Conference August 2010. Presented Lane Configuration Guide at 2010 Maintenance Meeting. 100% Complete**

Education & Enforcement

- Provide technical training that includes pedestrian and bicycle design to planners, designers, local governments, and other KYTC staff statewide. **Meeting with District, ADD, MPO and local government offices on the bike/ped program throughout the state. Attended Louisville Metro Task Force meeting. 100% complete**
- Promote the Complete Streets principals with KYTC staff. **Topic covered at the Partnering Conference. Attended District Planners meeting to discuss bike and ped program. Meeting with Kentucky Youth Advocates on promoting Complete Streets. 100% complete**
- Provide training to HDO, ADD, MPO and local staffs on how to conduct walkability and bikeability audits. **KYTC Division of Planning, along with the KYTC Office of Local Programs, and FHWA-KY Division worked with Cabinet for Health and Family Services (CHFS) to facilitate three statewide walkability audit workshops. To prepare for these walkability audits workshops, FHWA-KY coordinated with the FHWA Resource Center to provide Pedestrian Road Safety Audit (PRSA) training at three locations on November 3, 4, & 5, 2010. We used this training as a "train the trainer" session to train the folks that lead the walkability audit workshops in their communities.**

CHAPTER 14

Bicycle and Pedestrian Program (continued)

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch

PROPOSED ACTIVITIES FOR 2010-2011 (continued)

- Facilitate public education of non-motorized modes of transportation, as opportunity arises. Purchased materials: water bottle, tire gauge, and flashing light for bikers and walkers. Materials were not distributed since staff position was lost. 50% complete.
- Work with local law enforcement to promote education and enforcement of pedestrian and bicycle safety laws. No action this year. 0% complete.
- Coordinate with the Office of Local Government. Coordination with Office of Local Government on Rails to Trails questions and funding. Staff attended Kentucky Recreational Trail Authority meeting. 100% complete

Kentucky Bicycle and Bikeways Commission (KBBC)

- Plan quarterly KBBC meetings Held conference call meetings July, Aug, Sept, Nov, Dec 2010, March, April, 2011, and Video Meeting Jan 2011 with KBBC. Coordinated the Annual Meeting be held in October. 100% complete
- Prepare minutes from each KBBC meeting. Prepared meeting minutes for all conference call/video meetings. 100% complete
- Assist KBBC on communications and technical matters Staff created a bike listserve in order to promote KBBC meetings and Paul Nye grant information. Staff worked with KYTC Legal on revisions of KAR with KBBC. KAR revision yet to be completed. 75% complete
- Assist in facilitating the Paula Nye Education Grant program. Update grant application form in 2010; distribute information on list serve about deadline. Keep records of submitted applications. Produced progress report on past recipient's of the grant. 100% complete

PRODUCTS

- Assist with Local pedestrian and bicycle master plans, as requested. 100% Complete
- Updated bicycle and pedestrian brochures and promotional materials In contact with Office of Safety for items, researched available items and prices. 100% complete
- Updated statewide bicycle tour maps update changes to route as roadways change though HIS. 25% complete
- Pedestrian and Bicycle technical training course and walkability/bikeability audit training 100% Complete
- Quarterly KBBC meetings 100% Complete

CHAPTER 14

Bicycle and Pedestrian Program (continued)

RESPONSIBLE UNIT

Division of Planning
Multimodal Programs Branch

DISTRIBUTION OF ESTIMATED COST FOR 2010-2011

	2010-2011	Expended	Percent Expended
PERSONNEL	\$52,500	\$71,367	136%
OTHER	\$55,000	\$9,358	17%
TOTAL	\$107,500	\$80,725	75%

ESTIMATED OUTSOURCING EXPENSES AND PURCHASES

Other

- \$10,000 **\$0.00 expended to date** Pedestrian and bicycle training course instructor
- \$10,000 **\$250 expended to date, 2% of budgeted. Task 100% complete** for Kentucky Bicycle and Bikeway Commission meetings.
- \$7,500 **\$5,645 expended to date, 75% of budgeted. Task 100% complete** for Bicycle and Pedestrian Brochures and Bicycle Route Tour Guides
- \$10,000 **\$0.00 expended to date** for Bicycle and Pedestrian Promotional Items (bike lights, reflectors, pedometers)
- \$10,000 **\$3,072 expended, 31% of budget** Other Operational Cost—For items such as travel, mileage, equipment and other cost directly associated to the completion of this work chapter

CHAPTER 15

Highway Safety Improvement Program

RESPONSIBLE 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 2010-2011

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

PRODUCTS

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

CHAPTER 15

Highway Safety Improvement Program (continued)

RESPONSIBLE UNIT

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

PRODUCTS (continued)**Categories of Projects in FY 2010**

CATEGORY	HSIP	HRRRP	TOTAL
Intersection Safety Improvement	27	2	29
Pavement and Shoulder Widening	17	0	17
Installation of Rumble Strips/Other Warning Devices	8	0	8
Installation of Skid-Resistant Surface	5	2	7
Railway/Highway Crossing Hazard Elimination	5	0	5
Elimination of Roadside Hazard/Obstacle	19	8	27
Improvement of Signage/Pavement Markings	22	0	22
Installation of Traffic Control/Warning Device	4	0	4
Transportation Safety Planning	1	0	1
Installation of Guardrails/Barriers/Crash Attenuators	33	17	50
Improvements on High Risk Rural Roads	8	1	9
TOTAL	149	30	179

DISTRIBUTION OF ESTIMATED COST FOR 2010-2011

	2010-2011	Expended	Percent Expended
PERSONNEL	\$300,000	\$100,489	33%
OTHER		\$5,621	
TOTAL	\$300,000	\$106,110	35%

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 16

Value Engineering and Quality Assurance

RESPONSIBLE UNIT

Division of Highway Design
Quality Assurance Branch

PURPOSE AND SCOPE

The Quality Assurance Branch (QAB) includes three programs: Value Engineering (VE), Constructability Review and Post-Construction (PC) Review. The purpose for this Branch is to ensure that federal guidelines are met and to improve Kentucky Transportation Cabinet's (KYTC) design deliverables and its policy, processes and procedures through early intervention in preparation and planning. Below is a brief scope of each program:

The Value Engineering (VE) program was established in 1995 as an independent review process to examine potential ways to improve a project's design or reduce its cost. A VE study may be done for any project, but federal regulations require that a VE study be conducted on highway projects over \$25 million and bridge projects over \$20 million on the National Highway System (NHS). These cost thresholds include the summation of all project development costs: design, environmental, right-of-way, utility relocation, and construction. Recommendations developed in a VE study are shared with the project development team to consider for implementation.

Constructability Review program is a work in progress. It has traditionally consisted of formal meetings prescribed by the Project Manager during the design phase as spelled out in the KYTC's Design Manual. However, due to declining levels of personnel, the Constructability Review Program is undergoing a revamping process. Currently it has been tasked to review all projects throughout the state while in "Design" phase for two "red-flags" – Maintenance of Traffic (MOTs) and horizontal/vertical alignments for roadways and structures. Along with these two topics, QAB is currently compiling an Annual Top Ten check list comprised of other "red-flag" issues that continuously reoccur during the plan review process. The follow-up action is to present these items at our Annual ACEC/FHWA/KYTC Partnering Conference. The attendees are usually roadway and structure designers in the state of Kentucky gathering to share an all-encompassing transportation experience. Furthermore, this venue will facilitate discussions on items that need to be addressed. Another follow-up action will be to meet with Cabinet Officials to propose recommendations and changes to our internal processes for the betterment of the Cabinet.

Post-Construction (PC) Review program is a cyclic process. Projects that meet the criteria of over \$1 million dollars (state and federally funded) and have been open to the public for approximately one year are solicited from the District's Transportation Engineer Branch Managers (TEBM) in July and August. The target is 4 projects per district per fiscal year. There is a possibility to review more and smaller projects in the future. Meetings are scheduled from August to April. Consultants, Contractors, Federal Highway Administration (FHWA) and KYTC Personnel are invited and provided prior information such as documented change orders. During these meetings, it is discussed how the project(s) progressed and what were the major issues that arose.

CHAPTER 16

Value Engineering and Quality Assurance (continued)

RESPONSIBLE UNIT

Division of Highway Design
Quality Assurance Branch

PURPOSE AND SCOPE (continued)

The attendees participate as a team to identify collective solutions for the relevant issues. After the meeting, a draft Fact Sheet for each project is created and sent back to the participants for review. Once finalized, the Fact Sheet is distributed among Cabinet Personnel, FHWA Personnel and an American Council for Engineering Companies of KY (ACEC-KY) Organizer. Following the completion of the team meeting and data collection phases, data entry of the issues/solutions are inputted to the Lessons Learned GIS geodatabase. (The other programs are compiled into this database at different intervals throughout the year). The collection of data may also substantiate follow up meetings or contacting those who can make decisions to improve/change/revise the design process to improve overall quality and cost saving in future projects.

PROPOSED ACTIVITIES (Annually)

- Continue to develop and update policy and procedures for all aspects of each program.
VE Policy Manual submitted and accepted to FHWA
Draft Constructability Review Manual submitted, revisions in process
Draft Post-Construction Review Manual submitted, revisions in process
- Conduct mandated Value Engineering studies to meet federal guidelines.
8 ~ VE Studies were performed
- Conduct Post-Construction Reviews in their prescribed cycle.
31 ~ Post-Construction Reviews were made
55 ~ Post-Construction Translations were made
- Conduct Constructability Reviews to improve quality of designs and enhance efficiency of work flow during the construction phase.
107 ~ Constructability Reviews were made
- Collect data for the 3 program datasets to include in the Lessons Learned GIS geodatabase.
VE, VECPs and PCR are current in the each dataset for ArcGIS
Constructability dataset is being worked on through KTC/KYTC research (See outsourced activities below)
- Provide technical assistance from the programs to identify, evaluate and prioritize needs for improvements and coordinate those recommendations within the Cabinet through the collection and analysis of data.
Quality Matters Newsletter – Volume 1, Issue 1 (March 2011) & Volume 1, Issue 2 (August 2011)
Participate in Division of Construction ~ Specification Updates
Participate in Division of Highway Design ~ Standard Drawings Updates
Participate in Division of Construction ~ VECP process

CHAPTER 16

Value Engineering and Quality Assurance (continued)

RESPONSIBLE UNIT

Division of Highway Design
Quality Assurance Branch

PROPOSED ACTIVITIES (Annually) (continued)

- Ensure consistency and quality of design products delivered by the Cabinet.
Constructability Reviewers (prior to letting):
 - *Attending Preliminary Line and Grade Meetings*
 - *Attending Joint and Final Joint Inspections*
 - *Correspondence via email on reviews**Value Engineering Team Participation*
- Train in-house and consultant personnel on findings for the betterment of designs and design processes.
Lessons Learned and Follow up Findings Training (separate meetings):
 - *Division of Construction – VECs*
 - *Division of Structural Design including Geotechnical Branch*
 - *Right-of-Way*
 - *Utilities**Gave presentation at the KYTC/ACEC/FHWA Partnering Conference*
Gave presentation at the Spring Section Supervisors Annual Meeting
Gave presentation at three (3) KY Association for Highway Contractors meetings
Gave presentation at two (2) Project Development Academy Trainings
Participated in NCHRP Scan Team - QA/QC Best Practices of Design Plans
VE MOD 1 Training
- Oversee outsourced activities.
Working with KTC for research projects:
 - *Tools for Applying Constructability Concepts to Project Development (Design)*
 - *Evaluation of Design and Construction of Mechanically Stabilized Earth Walls*
 - *Intersection Design Analysis Tool*

PRODUCTS

- VE Studies ~ 8
- VE Check Lists ~ Document for Project Manager to submit items to the VE Team
- VE Punch Lists ~ 8
- VE Project Database ~ ACCESS database for potential VE projects
- VEC Database ~ Updated with ArcGIS
- Post-Construction Review Fact Sheets ~ 30
- Post-Construction Review Database ~ Updated with ArcGIS
- Constructability Review Database ~ Being developed through KTC/KYTC Research Project
- *Quality Matters* Newsletter ~ First Issue in March
- Lessons Learned Geodatabase ~ Updated with ArcGIS
- Lessons Learned Mapping ~ 36 maps developed for various presentations

CHAPTER 16

Value Engineering and Quality Assurance (continued)

RESPONSIBLE UNITDivision of Highway Design
Quality Assurance Branch**PRODUCTS (continued)**

- Annual Reports from all Programs
 FHWA VE Annual Report
 Constructability Status Report in ProjectWise
 Post-Construction Review FY11 Closeout meeting and reconciliation
 QAB Monthly Reports

DISTRIBUTION OF ESTIMATED COST FOR 2010-2011

	2010-2011	Expended	Percent Expended
PERSONNEL	\$325,000	\$146,602	45%
OTHER	\$175,000	\$2,783	2%
TOTAL	\$500,000	\$149,385	30%

ESTIMATED OUTSOURCING EXPENSES AND PURCHASES

- \$175,000 to outsource but not limited to the following: Other VE studies that are state funded, Value Engineering Training, SAVE International Membership fees, research or assistance related to Quality Assurance and Quality Control. (FHWA will be notified when QA/QC needs utilizing funds are initiated.) **\$0.00 expended.**

Table 1: Summarization of Work Plan Accomplishments

PROJECT I.D.	ITEM NO.	COUNTY(S)	CONTRACT NO.	TYPE OF WORK	Project Manager	Backup Manager	Consultant	NTP Date	Contract/L.A. Amount	Funds Expended in FY 2011 ¹	Total Funds Expended ¹	Overrun?	Schedule met?	Approximate % Complete	% 2011 FY Goals Met	Were needs for this corridor/SUA identified, evaluated, and prioritized?	FY 09 SPR Work Program Funds	Were there contract revisions?
US 421 FRANKLIN KY 441	05-8109.00	FRANKLIN	In-House	PROGRAMMING STUDY	Higdon	Witt	In-House	N/A	-	-	-	-	-	100%	100%	Yes	No	N/A
	11-110.00	BELL	In-House	PROGRAMMING STUDY	Witt	Higdon	In-House	N/A	-	-	-	-	-	85%	95%	Yes	No	N/A
		KNOX, WHITLEY	In-House	SMALL URBAN AREA STUDY	Higdon	Asher	In-House	N/A	-	-	-	-	-	90%	95%	Yes	Yes	N/A
CORBIN LEITCHFIELD	N/A	GRAYSON	In-House	SMALL URBAN AREA STUDY	Witt	Asher	In-House	N/A	-	-	-	-	-	99%	100%	Yes	Yes	N/A
MIDDLESBORO	N/A	BELL	In-House	SMALL URBAN AREA STUDY	Asher	Witt	In-House	N/A	-	-	-	-	-	100%	100%	Yes	Yes	N/A
MOREHEAD	N/A	ROWAN	In-House	SMALL URBAN AREA STUDY	Gutti	Asher	In-House	N/A	-	-	-	-	-	100%	100%	Yes	Yes	N/A
SHELBYVILLE	N/A	SHELBY	In-House	SMALL URBAN AREA STUDY	TBD	Higdon	In-House	N/A	-	-	-	-	-	15%	100%	In progress	Yes	N/A
		BULLITT, SPENCER	In-House	SCOPING STUDY	Gutti	Asher	In-House	N/A	\$ 300,000.00	\$ 6,737.78	\$98,335.82	No	Yes	50%	100%	In progress	No	N/A
KY 44 I-264 / US 42 INTERCHANGE	05-396.00	JEFFERSON	²	SCOPING STUDY	Jenkins/Thon	Ham	Palmer	12/3/2008	\$ 449,116.00	²	²	No	Yes	100%	100%	Yes	No	Yes
		WOLFE, MORGAN, MAGOFFIN, FLOYD	LA No. 3, Agree. No. 200829	PROGRAMMING STUDY	Johnson	Witt	WSA	9/21/2009	\$ 224,970.00	\$ 5,624.25	\$224,970.00	No	Yes	100%	100%	Yes	Yes	No
MOUNTAIN PARKWAY	N/A																	
I-71 IJS	5-8201.10	OLDHAM	LA No. 3, Agree. No. 200820	INTERCHANGE JUSTIFICATION STUDY	Matheney	Thomson	PB Americas	10/28/2009	\$ 240,876.51	\$ 132,479.51	\$240,876.51	No	Yes	100%	100%	Yes	No	No
		LYON, LIVINGSTON, MARSHALL, GRAVES, HICKMAN, FULTON	No. 201025	CORRIDOR STUDY	Ross	Asher	Palmer	4/12/2010	\$ 254,736.00	\$ 226,205.80	\$226,205.80	No	No	89%	90%	In progress	No	Yes
I-69 LEBANON	N/A	MARION	In-House	SMALL URBAN AREA STUDY	TBD	Spalding	In-House	N/A	-	-	-	-	-	5%		On Hold	Yes	N/A
KY 251	04-153.00	HARDIN	TBD	SCOPING STUDY	Clemons	Asher	Entran	12/3/2010	\$ 228,971.00	\$ 104,467.45	\$ 104,467.45	No	Yes	46%	100%	In progress	No	No
I-265/I-64 INTERCHANGE	05-21.00	JEFFERSON	In-House	INTERCHANGE MODIFICATION REPORT	T. Thompson	Asher	In-House	N/A	-	-	-	-	-	99%	100%	N/A	No	N/A
MT. STERLING	N/A	MONTGOMERY	LA No. 1, Agree. No. 201027	CORRIDOR STUDY	Turner	Gutti	QK4	1/13/2011	\$124,781.17	\$68,629.23	\$68,629.23	No	Yes	55%	100%	In progress	Yes	No
KY 41	03-8630.00	TODD	LA No. 1, Agree. No. 201028	SCOPING STUDY	J.Moore	Gutti	Entran	1/13/2011	\$89,915.00	\$22,780.45	\$22,780.45	No	Yes	25%	100%	In progress	No	No
US 41A PADUCAH	2-8303.00	HOPKINS, WEBSTER	LA No. 2, Agree. No. 201027	SCOPING STUDY	N. Hall	Higdon	QK4	5/26/2011	\$177,341.00	\$17,734.00	\$17,734.00	No	Yes	10%	100%	In progress	No	No
		MCCRACKEN	TBD	SMALL URBAN AREA STUDY	TBD	Higdon	TBD	TBD								On Hold	-	No
US 60	1-125.00	MCCRACKEN	LA No. 2, Agree. No. 201028	SCOPING STUDY	J. Herring	Higdon	Entran	4/27/2011	\$160,365.00	\$28,068.87	\$28,068.87	No	Yes	17%	100%	In progress	No	No
I-66 / I-69 SPURS - OWENSBORO	N/A	DAVISS, OHIO, HENDERSON	TBD	CORRIDOR STUDY	N. Hall	Damron	Palmer	In Negotiation									No	No
KY 321	N/A	JOHNSON	LA No. 3, Agree. No. 201027	PROGRAMMING STUDY	Cuzzort	Pelfrey	QK4	6/10/2011	\$112,924.13	\$5,646.00	\$5,646.00	No	Yes	5%	100%	In progress	Yes	No
KY 80	N/A	PERRY	LA No. 3, Agree. No. 201028	TRAFFIC STUDY	Blackburn	Gutti	Entran	5/5/2011	\$28,169.00	\$0.00					N/A	In progress	Yes	No
District Transportation Plans	N/A	Districts 1,2,6,7,8,9	LA No. 4, Agree. No. 201028	District Transportation Plans	Damron	Ross	Entran	5/17/2011	\$150,204.00	\$30,040.80	\$30,040.80	No	Yes	30%	100%	N/A	Yes	No
District Transportation Plans	N/A	Districts 3,4,5,10,11,12	LA No. 2, Agree. No. 201027	District Transportation Plans	Damron	Ross	QK4	5/17/2011	\$137,525.00	\$27,505.00	\$27,505.00	No	Yes	35%	100%	N/A	Yes	No

¹In-house studies using SPR funds do not have a tracking mechanism for funding that identifies charges to individual studies.

² Managed by District 5.