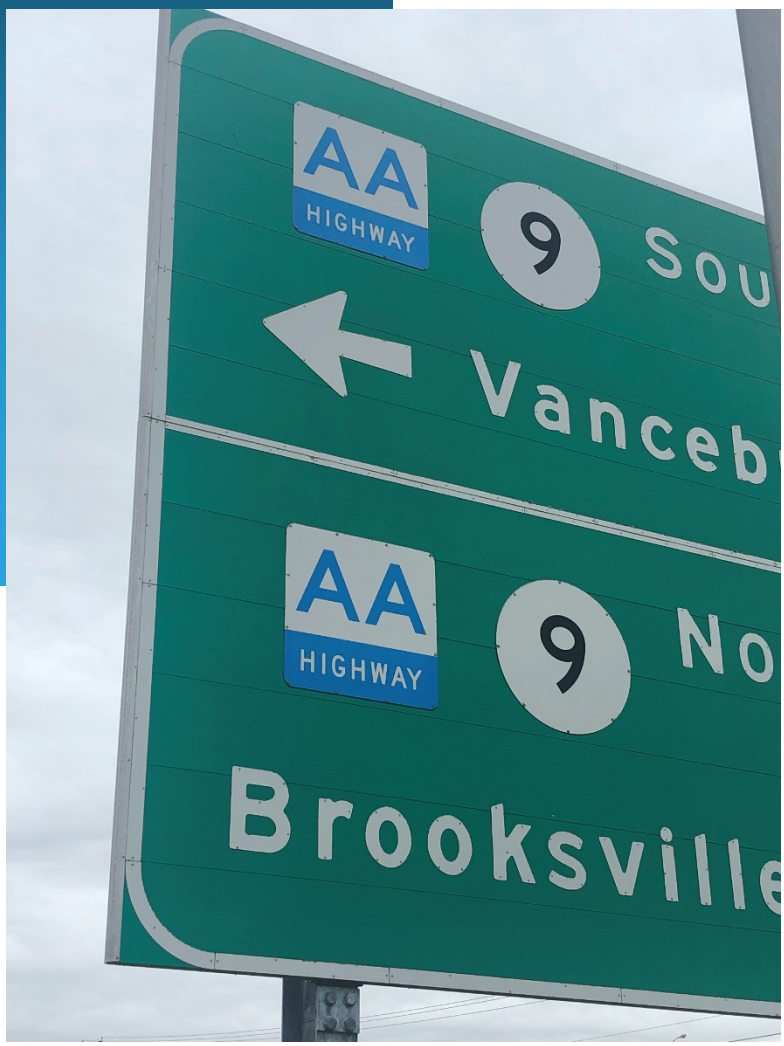


FINAL

AA Highway Improvements Study

In Partnership with:

HMB Professional Engineers, Inc.
AECOM
Kentucky Transportation Cabinet

April 2021



AA Highway Improvements Study
Executive Summary

Executive Summary

The AA Highway Improvements Study was initiated in August of 2019 by the Kentucky Transportation Cabinet (KYTC) to identify and evaluate potential improvement concepts to improve overall safety and operational performance of the AA Highway (KY 9 / KY 10). The study limits encompass KY 9 from the Campbell / Pendleton County line to the city of Grayson (KY 1) and KY 10 from the city of Vanceburg to US 23 in Greenup County for a total of approximately 120 miles.

Illustrated in **Figure ES 1**, the study area encompasses the AA Highway (KY 9 / KY 10) through Pendleton, Bracken, Mason, Lewis, Greenup and Carter Counties. At intersections, the approaches were evaluated as necessary to determine improvement concepts. The mainline AA Highway was evaluated within right-of-way limits unless additional evaluation was deemed necessary for evaluation / refinement of improvement concepts.

During the course of the study, multiple collaborative meetings were held. The meetings with the Project Team were conducted to discuss study progress and next steps. The meetings with local officials / stakeholders (LO/S) were an opportunity to share study information and gather input from various perspectives on identifying areas of concern, developing potential improvements, and providing input on prioritization. The initial meetings with the Project Team (January 2020) and LO/S (February 2020) provided an opportunity to review objectives of the study, present and discuss the existing conditions information, and collect initial input for the improvement concept development process.

Each high crash location (CRF greater than 1.0) and location identified as a concern by the local officials / stakeholders was examined to determine if improvements were appropriate. Values for Excess Expected Crashes (EEC) were calculated and used as a secondary analysis as the transition from CRF to EEC analysis was underway during this study. Information was compiled for each location including:

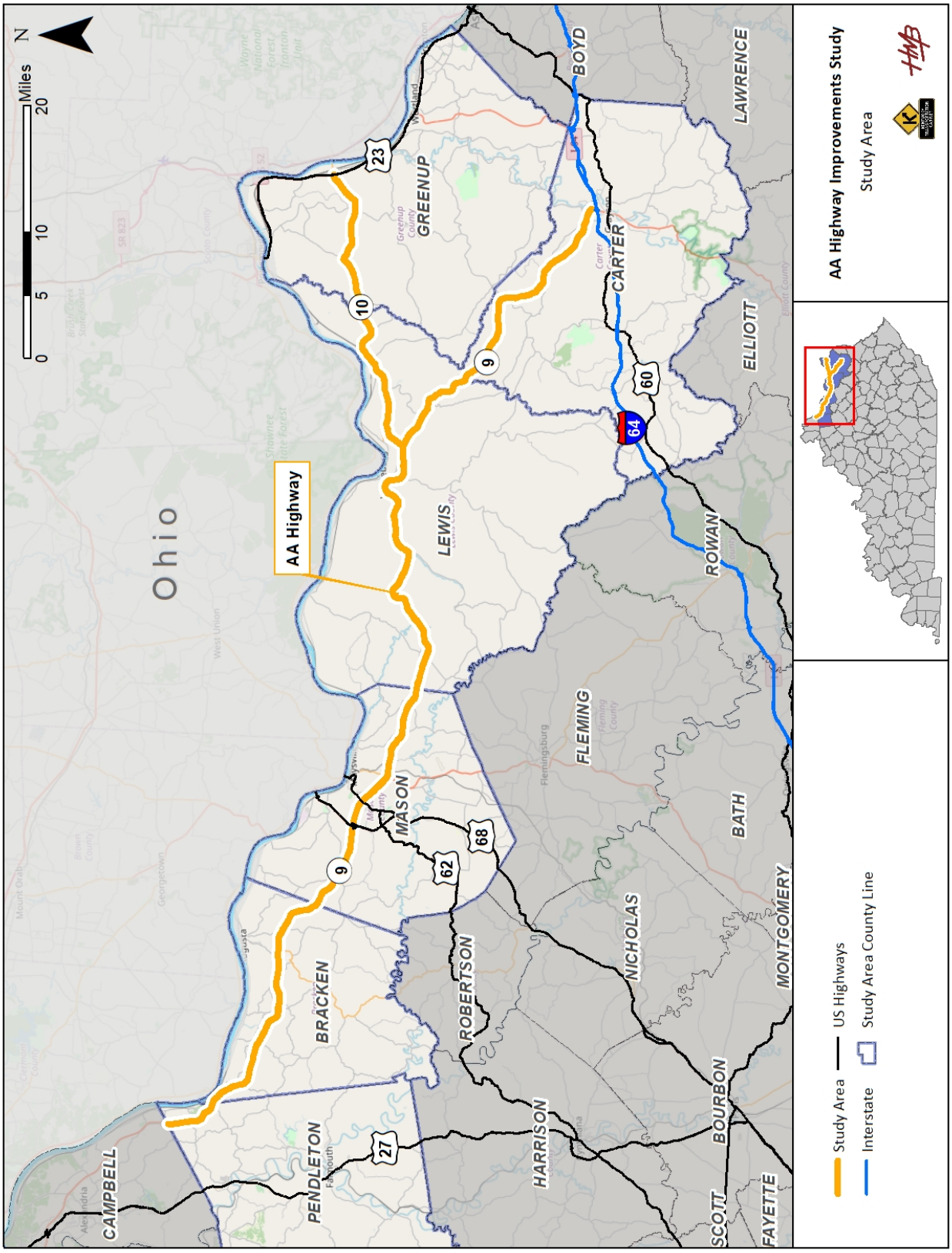
- 2020 AADT
- Truck %
- Speed Limit
- Number of Lanes
- Lane Width
- Shoulder Width
- Lighting
- Median Width
- Presence of Auxiliary Lanes
- Crash Rate (CRF and EEC)
- Existing CHAF
- Number of Local Officials / Stakeholder Responses
- Geometric Issue

Additionally, if a project had previously been identified in a CHAF, SUA, HSIP, Preventative Maintenance, or Highway Plan, but did not have a high crash rate or was not identified by the local officials / stakeholders, it was still included in the initial list of locations. The review of this initial list helped determine the need for the previously identified project to carry forward to a refined set of locations and improvement concepts.

Reconstruction or widening sections or the entirety of the AA Highway was not included as part of the initial list of locations or corridor needs. Through the technical analysis and discussions with the local officials / stakeholders, it was determined that capacity is not an issue with operations in the study area. Local officials / stakeholders expressed a desire for spot improvements, particularly turn lanes. Reconstruction or widening was not identified as a priority. Therefore, this study focuses on spot improvements and corridor treatments to address identified issues.

With a comprehensive initial list of possible improvement locations, the next step was to refine the list of locations. To do so, additional information was collected including detailed crash records, intersection turning movement counts and existing signal timing. Locations with similar issues were also consolidated into one project if possible. Improvement concept categories considered for spot improvements generally included:

Figure ES 1. Study Area



- Turn Lanes at Intersections
- Modifications to Truck Climbing Lanes
- Signage and / or Striping
- Access Management
- Enforce or Adjust Speed Limits
- Pavement Rehabilitation / Management
- Lighting

For each identified spot, segment, and corridor concept, improvement strategies were further developed and refined. Traffic forecasts were prepared for the future year 2045, planning-level cost estimates were further developed and refined, and a high-level benefit-cost analysis was completed.

A second set of local officials / stakeholder (LO/S) meetings were held virtually in July 2020 to present and collect input on the refined set of project locations and improvement concepts. Attendees were asked to review the project locations and improvement concepts and categorize them based on high, medium, and low priority. From these meetings, an additional location was added to consider improvements – the intersection of the AA Highway and KY 2523 (Lions Lane). The data does not show a history of crashes; however, there is concern regarding the perceived potential for crashes by local officials and stakeholders. This intersection provides access to the Lewis County Middle and High Schools with several young and inexperienced drivers travelling through the intersection.

From this process, a final list of 28 individual spot or segment locations and seven corridor-wide recommendations were developed. The prioritization is broken down by the following categories.

- **Short-Term** projects included those that are either relatively low-cost or can be implemented relatively quickly using KYTC resources such as maintenance activities. These projects would not need to go through the SHIFT process to be constructed. There were 12 total Short-Term projects. **Table ES 1** lists the project location and improvement concepts for this category. Also included is the additional concept location at Lions Lane (KY 2523) and the AA Highway (KY 9). It was not included in the prioritization process but should be included in this category given the additional nearby development and roadway modifications / development for the school complex.

- **High Priority** projects included those that were overall in a higher tier of ratings based on crash history, benefits-cost analysis, and local official / stakeholder input. There were 7 total High-Priority projects. **Table ES 2** lists the project location and improvement concepts for this category.

- **Medium Priority** projects included those that were overall in the middle tier of ratings based on crash history, benefits-cost analysis, and local official / stakeholder input. There were 5 total Medium-Priority projects. **Table ES 3** lists the project location and improvement concepts for this category.

- **Low Priority** projects included those that were overall in the lowest tier of ratings based on crash history, benefits-cost analysis, and local official / stakeholder input. There were 3 total Low-Priority projects. **Table ES 4** lists the project location and improvement concepts for this category.

- Other projects included those that are broader in nature (i.e. corridor-wide or a longer segment), consolidated projects, or policy-based. There were 7 total Other projects. **Table ES 5** lists the project location and improvement concepts for this category.

Table ES 1. Short-Term Projects

	Improvement Description	Cost (2020 Dollars Including DRUC)
D Bracken KY 875	• Add advanced intersection warning signage. • Add advance bridge warning and "Bridge Ices Before Road" signage. • Add Drains to Bridge	$12,500
G Mason KY 435	• Add wet roadway condition warning signs. • Evaluate drainage further at this intersection. Surveying will be required to determine areas that need to be addressed further. • Add open graded high skid-resistance overlay.	$85,000
H Mason Downing Dr	• Evaluate and improve signal timing and phasing. • Add advance intersection signage. • This intersection is included in concept AB which lowers the speed limit to 45 mph just west of this intersection.	$10,000
L Mason KY 1448	• The widening improvement for concept K extends through this intersection. • Add advanced intersection warning signage. • Add dual red signal heads.	$20,000
S Lewis Garrard Rd	• Modify striping to double yellow to restrict passing EB from MP 30.700 to MP 30.075 and westbound from MP 29.900 to Garrard Road. • Install "No Passing" signage. • Add advanced intersection warning signage.	$10,000
T Lewis KY 57	• Add flashing yellow arrow for KY 9 left turn movements. • Add advanced intersection warning signage for KY 57 vehicles. • Adjust signal timing.	$25,000
U Lewis KY 59	• Add advanced warning signage. • Add Intersection Collision Warning System (ICWS) "Traffic Entering When Flashing" signs on KY 9 to alert drivers there is traffic present.	$35,000
W Greenup KY 7	• Add advanced intersection warning signage. • Add Intersection Collision Warning System (ICWS) "Traffic Entering When Flashing" signs on KY 10 to alert drivers there is traffic present. • Consider addition overhead lighting.	$40,000
X Greenup US 23	• Add backplates to signals. • Add dual red signal heads. • Improve signal timing. • Add fog warning signage.	$30,000
Y Carter KY 7 (North)	• Add stop bar on KY 7. • Add advance intersection warning signage. • Stripe a No Passing Zone through the intersection. Install "No Passing" signage. • Consider addition of overhead lighting.	$10.000

Table ES 1. Short-Term Projects (cont.)

	Improvement Description	Cost (2020 Dollars Including DRUC)
Z Carter KY 7 (South)	• Begin the EB truck climbing lane after the intersection and convert the existing climbing lane to EB left turn lane.	$10,000
AA Carter KY 1959	• Add advanced warning signage for the WB truck climbing lane drop. • Enhance median striping to help clarify the westbound truck climbing lane has ended and the WB left turn lane begins.	$10,000
AI Lewis Lions Ln	• Add a second SB lane on Lions Lane • Add "Do Not Block Intersection" signage	$65,000

Table ES 2. High Priority Projects

	Improvement Description	Cost (2020 Dollars Including DRUC)
J Mason US 62	• Narrow lane widths and add an extra lane in the EB, WB, and SB approaches so the signal phasing can be optimized for traffic. This includes a dedicated WB right turn and left turn for the EB and SB approaches. The NB did not warrant an extra lane. • Continue to monitor access control issues after intersection improvement, or consider converting entrances as right-in, right-out only.	$2,575,000
V Lewis KY 1306	• Add advanced warning signage. • Add dual stop signs on KY 1306 approaches. • Evaluate clear zone along the northern side of KY 10 between MP 11.800 and MP 11.900 and clear trees or add guardrail. • Add EB and WB left turn lanes to improve safety. • Consider addition of lighting.	$670,000
M Mason KY 11	• Construct dedicated EB right turn lane to improve safety and meet vehicular traffic (warranted for 2020 volumes). • Consider addition of a second NB left turn lane to improve operations and meet vehicular demand. • Improve signal timing / Add advanced warning signage. • This intersection is included in concept AB.	$995,000
I Mason Kenton Station Dr	• Construct WB right turn lane (warranted for 2020 volumes). • Evaluate and improve signal timing. • Widening the roadway and the reconstruction of the roadside ditch could result in significant impacts. This would need to be evaluated further with surveying. • Consider addition of overhead lighting.	$645,000
N Mason Knoweshaw Rd	• Construct EB right turn lane to improve safety. • Improve intersection signage. • Add stop bars on side street. • Consider addition of lighting.	$450,000
F Bracken KY 19	• Add advanced intersection warning signage. • Add oversized dual stop signs. • Offset KY 9 left turn lanes in the positive direction.	$320,000
P Mason KY 1449	• Add advanced intersection warning signage. • Construct right turn lanes and positive offsets for left turn lanes to improve safety.	$490,000

Table ES 3. Medium Priority Projects

	Improvement Description	Cost (2020 Dollars Including DRUC)
K Mason Walmart	• Widen KY 9 to allow for a landscaped median as an access management and traffic calming measure. • Construct right-in / right-out at Tucker Dr. and Walmart Way. • Construct dual left turn lanes at Walmart Way. • Eliminate two field entrances, evaluate signal timing, and consider lighting.	$7,385,000
Q Mason Marathon	• Construct an EB left turn lane to improve safety. • Add stop bars to approaches.	$550,000
C Bracken KY 1019	• Add advanced intersection warning signage. • Offset KY 9 left turn lanes in the positive direction.	$540,000
B Bracken Iler Rd	• Add EB left turn lane (warranted based on 2045 volumes) and WB right turn lane to improve safety. • Add advanced intersection warning signage.	$945,000
O Mason Clarkson Sherman Rd	• Construct EB right turn lane and WB left turn lane to improve safety. • Add stop bars on approaches.	$525,000

Table ES 4. Low Priority Projects

	Improvement Description	Cost (2020 Dollars Including DRUC)
R Mason KY 1234	• Concept 1 – Add hatch striping to clarify that there is no turn lane. • Concept 2 – Construct a WB left turn lane to improve safety. • Add advanced intersection warning signage.	Concept 1 - $15,000 Concept 2 - $315,000
E Bracken KY 875	• Improve SB approach guardrail radius. • Re-stripe EB truck climbing lane as EB and WB left turn lanes to improve safety. • Add advanced intersection warning signage.	$225,000
A Pendleton KY 159	• Concept 1 – Extend truck climbing lane to the west. • Concept 2 – End the truck climbing lane before the intersection and use the extra width as a WB left turn lane.	Concept 1 - $540,000 Concept 2 - $15,000

Table ES 5. Other Projects

	Improvement Description	Cost (2020 Dollars Including DRUC)
AB Mason	• Reduce existing 55 mph speed limit to 45 mph along KY 9 between just east of KY 11 and just west of Downing Drive. Increase law enforcement or add traffic calming measures such as "Your Speed" signs, transverse rumble strips, painted warnings, speed tables, or other measures.	$15,000
AC All Counties	• Additional locations that had crashes potentially related to truck climbing lane issues and were not included in the intersection analysis are included in this corridor-wide improvement concept.	TBD
AD All Counties	• Identify, evaluate and prioritize routes needing pavement reconstruction or rehabilitation. • Replace 4" striping with 6" spray thermo striping in conjunction with pavement reconstruction or rehabilitation projects or as needed.	Re-paving: $630,000 average per mile Re-striping: $ 7,500 average per mile
AE Lewis / Greenup	• Evaluate side streets and install stop signs and stop bars. • Add advanced intersection warning signs. • For intersections with identified crashes or in curves, consider addition of flashing warning beacon. • Consider addition of street name to intersection warning signs.	$20,000
AF Carter	• Evaluate routes leading to / from KY 9 and Carter Caves State Resort Park. • Provide recommendations to navigation guidance for any proposed modifications.	TBD
AG Pendleton / Bracken / Mason	• Targeted enforcement of speeding with increased presence of police. • Increased use of portable speed monitors to reinforce speed limit.	TBD
AH Lewis	• Mitigate surface drainage issues throughout segment. • Improve friction surface issue by implementing high skid resistance surface or improve superelevation with milling / paving. • Add curve warning signage.	High Friction Surface Option: $330,000 Superelevation Correction Option: $530,000

The ranking system used to score the projects included ranking the CRF, Benefit-Cost Analysis, local officials / stakeholder prioritization, then combining the score to determine which projects rated the highest. This list was then compared against existing CHAF projects to determine if any priorities needed to be adjusted. **Figure ES 2** shows the priority scoring. An overview of locations is provided in **Figure ES 3**.

Figure ES 2. Prioritization Scoring

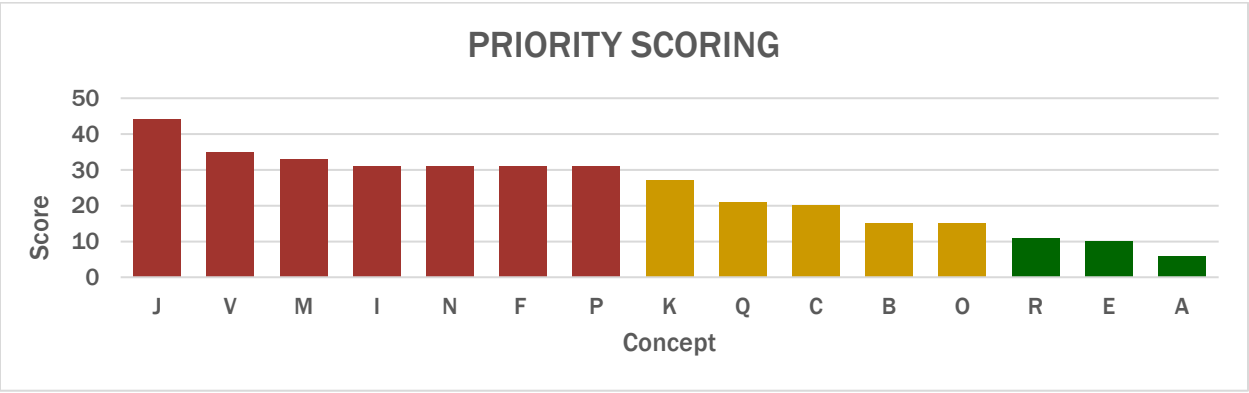
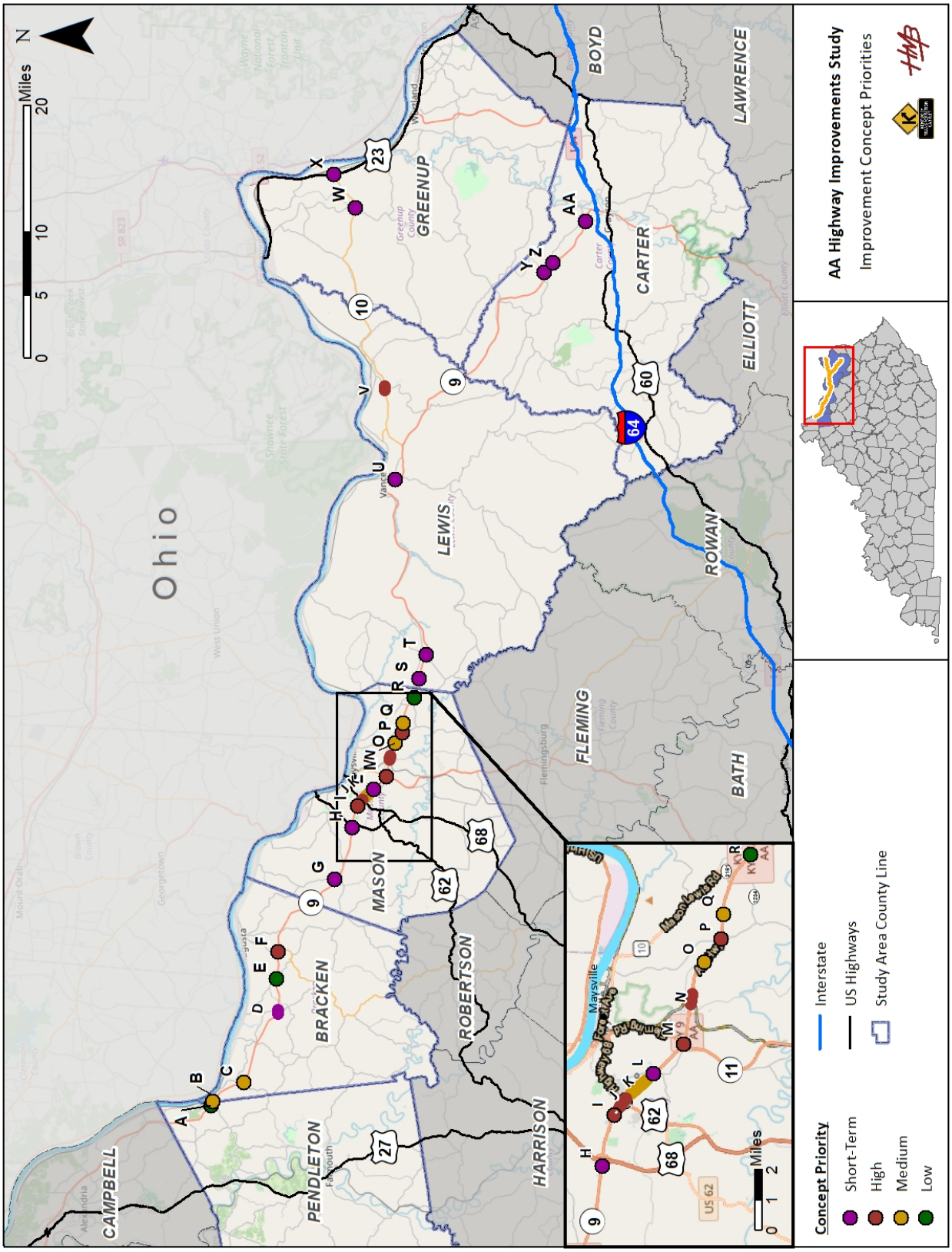


Figure ES 3. Improvement Concept Priorities



The next phase in the project development process is Preliminary Engineering. If federal funds are used or permits will be required, additional environmental analyses will be required to satisfy the National Environmental Policy Act (NEPA). All identified high, medium, and low priority projects would need to be integrated into Kentucky's Strategic Highway Investment Formula for Tomorrow (SHIFT). Through this mechanism they may be programmed in the Highway Plan. Short-Term projects may be initiated through the District's routine maintenance and traffic programs or become part of systematic programs such as Pavement Rehabilitation or Highway Safety Improvement Program (HSIP). Corridor projects may be implemented through a combination of these mechanisms or considered for additional study. City and county governments, along with ADDs, should collaborate with KYTC on project funding and implementation.

Table of Contents

Chapter 1 – Introduction 1
1.1 Study Area 1
1.2 Study Process 3
1.3 Study Objective and Goals 4
1.4 Previous Studies, and Identified and Highway Plan Projects 4
Chapter 2 – Existing Conditions 13
2.1 Functional Class and Roadway Systems 13
2.2 Roadway Geometric Characteristics 13
2.3 Structures 17
2.4 Existing Traffic Volumes and Operational Analysis 20
2.5 Crash Analysis 23
Chapter 3 – Environmental Overview 30
3.1 Natural Environment 30
3.2 Human Environment 31
3.3 Socioeconomic Study 32
Chapter 4 – Initial Engagement Efforts 33
4.1 Project Team Meeting No.1 33
4.2 Local Officials / Stakeholder Meeting No. 1 33
Chapter 5 – Improvement Concept Development and Analysis 36
5.1 Identification of Initial Improvement Locations 36
5.2 Analysis of Initial Improvement Locations 41
5.3 Revised Improvement Locations 44
5.4 Project Team Meeting No. 2 50
Chapter 6 – Improvement Concept Refinement 51
6.1 2045 Traffic Forecasts and Operations 51
6.2 Planning-Level Cost Estimates 56
6.3 Benefit-Cost Analysis 56
Chapter 7 – Additional Engagement Efforts 59
7.1 Local Officials / Stakeholder Meeting No. 2 59
7.2 Project Team Meeting No. 3 62
Chapter 8 – Study Outcomes 63
8.1 Prioritized Projects 63
8.2 Next Steps 107
8.3 Additional Information 107

Appendices

A. Speed Data
B. Crash Data
C. Environmental Overview Maps
D. Socioeconomic Study
E. Meeting Minutes
F. Additional Improvement Concept Information
G. Traffic Forecast

List of Figures

Figure 1. Study Area 2
Figure 2. 2002 KY 9 Widening Study – Preferred Alternate 4
Figure 3. Identified SUA Projects 7
Figure 4. 2020 Sponsored Identified Projects 8
Figure 5. Highway Plan Projects 9
Figure 6. Freight Network and Major Employers 14
Figure 7. Typical Section Changes 16
Figure 8. Geometric Design Deficiencies 18
Figure 9. Existing Structures - Condition 19
Figure 10. 2020 AADT Range 21
Figure 11. Level of Service (LOS) Designations 20
Figure 12. 2020 Level of Service 22
Figure 13. High CRF Spots (0.3 Mile) 26
Figure 14. Crash Statistics Infographic 28
Figure 15. Crash Density (All Crashes) 29
Figure 16. LO/S Meeting No. 1 Summary of Input by Category 34
Figure 17. Local Official / Stakeholder Meeting No. 1 Input 35
Figure 18. Initial Spot / Intersection Improvement Locations 40
Figure 19. Turning Movement Count Locations 43
Figure 20. Summary of Revised / Dismissed Spot / Intersection Improvement Locations 49
Figure 21. 2045 AADT Range 52
Figure 22. 2045 Level of Service 53
Figure 23. LO/S Meeting No. 2 – Total Responses Per Concept 60
Figure 24. Prioritization Scoring 69
Figure 25. Improvement Concept Priorities 70

List of Tables

Table 1. 2002 Widening Study – Safety / Operational Improvements 5
Table 2. Identified Projects 10
Table 2. Identified Projects (cont.) 11
Table 2. Identified Projects (cont.) 12
Table 3. Geometrically Deficient Horizontal Curves 17
Table 4. CDAT Excess Expected Crashes by Segment (2013-2017) 24
Table 5. High CRF Spots (0.3 Mile) with Corresponding EECs 27
Table 6. Summary of Socioeconomic Data 32
Table 7. Summary List of Initial Spot / Intersection Improvement Locations 37
Table 7. Summary List of Initial Spot / Intersection Improvement Locations (cont.) 38
Table 8. Summary List of Initial Segment / Corridor Improvements 39
Table 9. Intersection Turning Movement Locations 42
Table 10. Summary of Turn Lane Warrant Analyses 42
Table 11. Existing Signal Timing Review 44
Table 12. Summary of Revised Spot / Intersection Improvement Locations 45
Table 12. Summary of Revised Spot / Intersection Improvement Locations (cont.) 46
Table 12. Summary of Revised Spot / Intersection Improvement Locations (cont.) 47
Table 13. Summary List of Revised Segment and Corridor Improvement Locations 48
Table 14. Summary of Spot / Intersection Locations Removed from Further Consideration 50
Table 15. Intersection Operations Analysis – Unsignalized Intersections 54
Table 16. Intersection Operations Analysis – Signalized Intersections 55
Table 16. Intersection Operations Analysis – Signalized Intersections (cont.) 56
Table 17. Calibration of Crash Data by Severity for Total Cost Per Crash 57
Table 18. Weighted Average Crash Costs by Severity Combination 57
Table 19. Benefits Related to Crash Reduction 58
Table 20. LO/S Meeting No. 2 – Percentage of Priority Responses 61
Table 21. Short-Term Projects 64
Table 21. Short-Term Projects (cont.) 65
Table 22. High Priority Projects 66
Table 23. Medium Priority Projects 67
Table 24. Low Priority Projects 67
Table 25. Other Projects 68

CHAPTER 1

INTRODUCTION

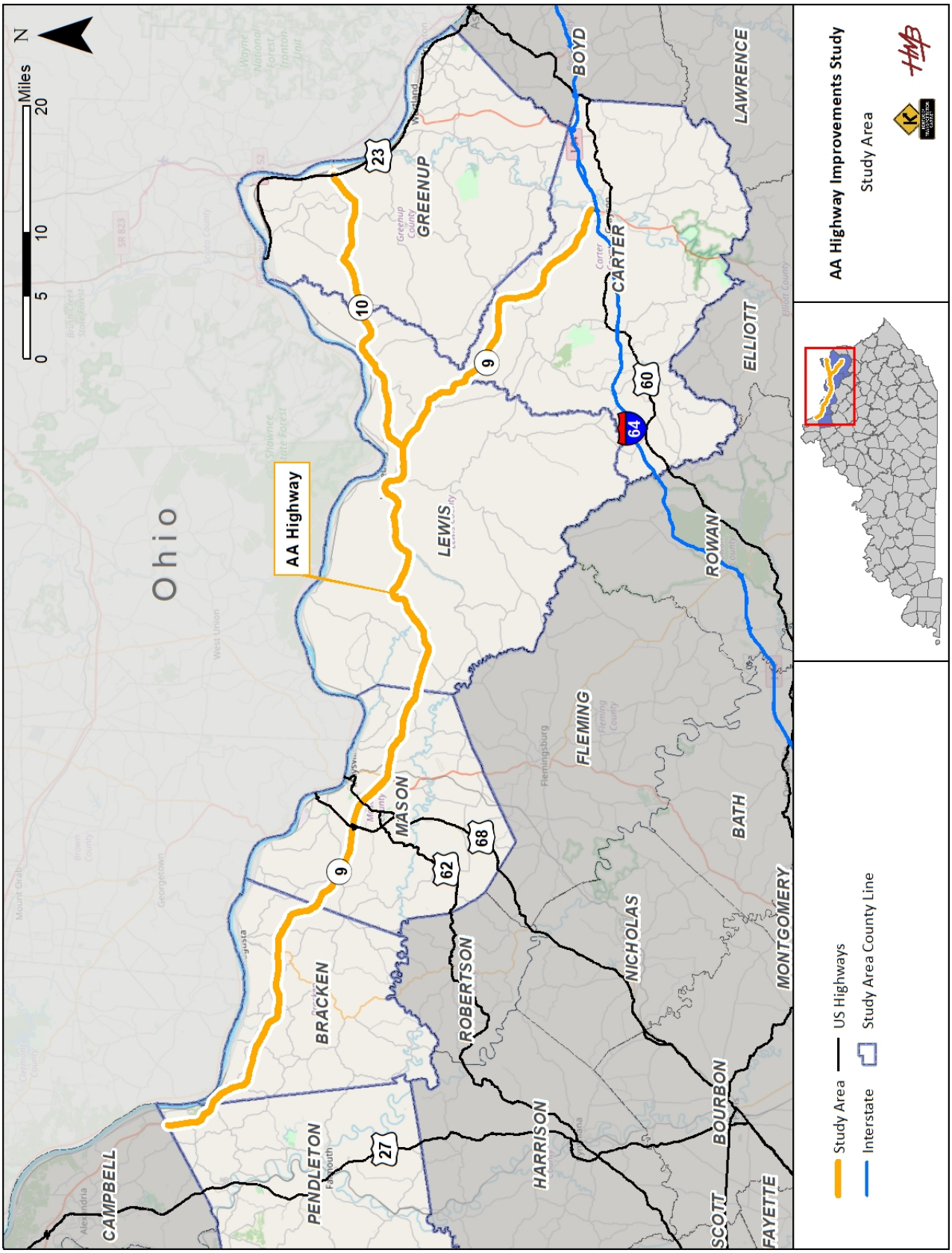
Chapter 1 – Introduction

The AA Highway Improvements Study was initiated in August of 2019 by the Kentucky Transportation Cabinet (KYTC) to identify and evaluate potential improvement concepts to improve overall safety and operational performance of the AA Highway (KY 9 / KY 10). The study limits encompass KY 9 from the Campbell / Pendleton County line to the city of Grayson (KY 1) and KY 10 from the city of Vanceburg to US 23 in Greenup County for a total of approximately 120 miles.

1.1 Study Area

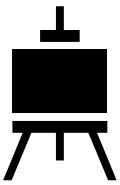
Illustrated in **Figure 1**, the study area encompasses the AA Highway (KY 9 / KY 10) through Pendleton, Bracken, Mason, Lewis, Greenup and Carter Counties. At intersections, the approaches were evaluated as necessary to determine improvement concepts. The mainline AA Highway was evaluated within right-of-way limits unless additional evaluation was deemed necessary for evaluation / refinement of improvement concepts.

Figure 1. Study Area



1.2 Study Process

The process of this study is described in detail in the following seven chapters. Additional resource / reference materials are included in the appendices.



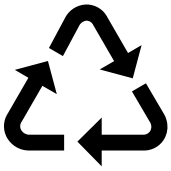
Chapter 1 - Introduction

The first chapter provides background introductory information about the study and provides the framework for the remainder of the report.



Chapter 2 - Existing Conditions

The second chapter encompasses collected data including geometrics, structures, bicycle and pedestrian accommodations, transit, existing traffic volumes and operations, and safety analysis.



Chapter 3 – Environmental Overview

This chapter is devoted to a summary of the natural, human, and socioeconomic impacts within the study area.



Chapter 4 - Initial Engagement Efforts

This chapter is devoted to a summary of initial outreach efforts which includes coordination with the Project Team and a meeting with local officials / stakeholders.



Chapter 5 - Improvement Concept Development and Analysis

Chapter five presents the process by which locations and potential improvement concepts were developed. It also includes a discussion on analysis procedures.



Chapter 6 - Improvement Concept Refinement

In this chapter, additional information is presented to help determine optimal solutions for identified locations and what is warranted. This includes more in-depth traffic and safety analysis and the development of planning-level cost estimates.



Chapter 7 - Additional Engagement Efforts

Chapter seven focuses on the discussion of improvement concepts, locations, and prioritization with the Project Team and local officials / stakeholders.



Chapter 8 - Study Outcomes

The final chapter presents the outcomes of the study as a prioritized list of locations and improvement concepts.

1.3 Study Objective and Goals

The objective of the AA Highway Improvement Study is to identify and evaluate potential improvement concepts to improve overall safety and operational performance of the AA Highway including KY 9 from the Campbell / Pendleton County line to Grayson (KY 1) and KY 10 from Vanceburg to US 23 in Greenup County (total of approximately 120 miles). To accomplish this objective, study goals include the following:

- Identify Locations for Possible Projects
- Develop / Evaluate Improvement Concepts
- Prepare Prioritized List of Improvement Concepts

1.4 Previous Studies, and Identified and Highway Plan Projects

Previously completed studies, identified projects, and projects listed in the Highway Plan were identified in the study area that could impact the AA Highway in the future.

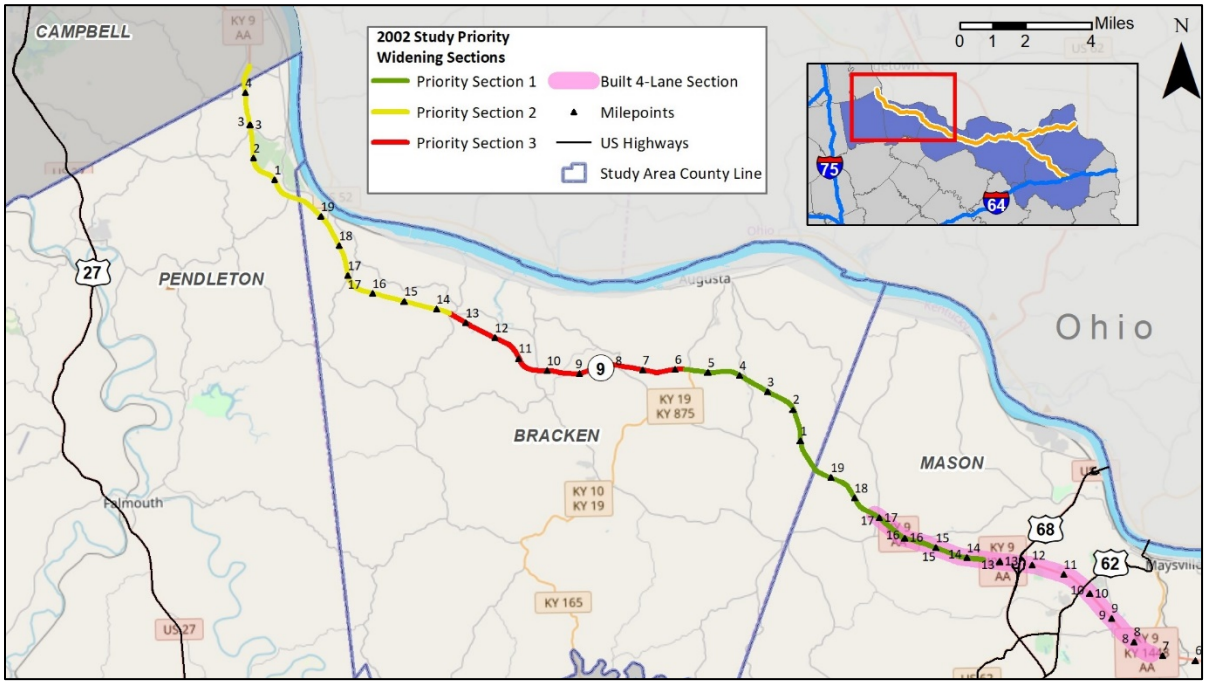
Previous Studies

In 2002, a study was completed in which portions of the AA Highway in Campbell, Pendleton, Bracken, and Mason Counties were evaluated for improvements (Item No. 9 – 165.00). Four alternates were developed:

- Alternate 1 - Do Nothing / No Build
- Alternate 2 - Safety / Operational Improvements
- Alternate 3 - Widening to 4-Lane, Limited Access
- Alternate 4 - Widening to 4-Lane, Fully Controlled Access

Alternate 3 was recommended to be carried forward from the 2002 study. It included widening to four lanes with limited access and was divided into priority sections. **Figure 2** shows the study limits and the priority sections. As shown, a portion of the Priority Section 1 in Mason County has since been built.

Figure 2. 2002 KY 9 Widening Study – Preferred Alternate



Additional safety / operational improvements were identified in the 2002 study. They include the following as shown in **Table 1**:

Table 1. 2002 Widening Study – Safety / Operational Improvements

Improvement	Deficiency to Address	Current Status
Rumble Strips	Inattentive driver, roadway departure, driver fatigue	Implemented
Field Entrances	30 noted; need access control	Access control addressed in reconstruction west of US 68*
Driveways	Missing turn lanes, small turning radii, guardrail too close	Partially implemented
Guardrail Placement	Guardrail close to edge of pavement	Partially implemented
Signage Compliance	Inconsistent; evaluate compliance	Implemented but still some inconsistencies
Turn Flares	Improve turning radii	Partially implemented; Addressed in reconstruction west of US 68*
Truck Climbing Lanes	Installations / modifications	Partially implemented
T-Intersection Signage	Add double arrow black and yellow signs	Partially implemented
Public education campaign, visibility sensors, traffic enforcement, automated lane indication, rest areas	Foggy conditions	Partially implemented; Signage and Advanced Warning Systems for signals installed
Lighting	Crashes in dark conditions	Most major intersections have lighting installed
Weigh Stations	Truck traffic	Not currently implemented
Deer Reflectors	Collisions with animals	Not implemented; Subsequent research found them not to be effective
Skip Reflectors	Intersection delineation	Not currently implemented, dotted extension lines used in some cases

*Item No. 9-169.00

As noted in the table, some improvements have since been implemented. For the current study, the issues and improvement concepts from the 2002 study were considered as part of the improvement development and evaluation process.

There are also additional planning studies that have been performed recently that overlap the study area including the following:

- *2017 Boyd and Greenup County Transit Study* – This study was commissioned by KYOVA to examine the fixed route and human services transit accommodations that exist within the Kentucky portion of KYOVA's jurisdiction, and to identify strategies to better connect the

larger region. High-level recommendations for policy, frequency, span, reliability, and routing were made.

- *2016 Non-Motorized Transportation Plan* – Also commissioned by KYOVA, the plan was developed to serve as a vision and guide for identifying, planning, prioritizing, and funding non-motorized improvements for pedestrians and bicyclists of all ages in Boyd and Greenup Counties.

- Three Small Urban Area (SUA) Studies have been completed that overlap the study area, the *2018 Maysville SUA*, *2018 Grayson SUA*, and the *2020 Boyd-Greenup SUA*. An SUA is a study completed for areas with populations between 5,000 and 50,000 to identify and examine transportation issues related to safety, congestion, and operations. The result is a prioritized list of projects classified as local, short-term or long-term. The Maysville and Grayson SUA studies included improvement concepts at multiple locations along the AA Highway and are shown on **Figure 3**. A review of the Boyd-Greenup SUA did not find any projects that impacted or fell within the study area.

- The *2017 Boyd Greenup County Transit Study* and *2016 Non-Motorized Transportation Plan* did not have recommendations that affected the AA Highway.

Identified and Highway Plan Projects

Identified projects are transportation projects that have been identified as a need and have been entered in the Continuous Highway Analysis Framework (CHAF) database. The database provides a means to track and analyze projects as well as a way to sponsor, score, and rank projects as part of the Strategic Highway Investment Formula for Tomorrow (SHIFT) prioritization process. Other sources for identified projects can come from regional transportation plans. The 2040 KYOVA Interstate Planning Commission Metropolitan Transportation Plan includes Greenup County. No projects that impact the AA Highway were identified in this plan.

Highway Plan projects are those that have been prioritized through SHIFT and have been included in Kentucky's Highway Plan. During this study, a new highway plan was proposed and enacted. Therefore, Highway Plan projects are identified from both *Kentucky's FY 2018 – 2024* and *FY 2020 – 2026 Highway Plan*. **Figure 4** and **Figure 5** summarizes color-coded Highway Plan and identified projects. Due to the size of the study area and number of identified projects, only the sponsored projects are shown on the map. **Table 2** contains all sponsored and unsponsored identified projects in the study area. A sponsored project is a project that has been selected by the ADD or Highway District to be scored in SHIFT.

Also shown on the Highway Plan Projects map and list are Highway Safety Improvement Program (HSIP) and Preventative Maintenance Management Program projects. HSIP projects are administered through the KYTC Division of Traffic Operations. The goal of the program is to achieve a significant reduction in traffic fatalities and serious injuries on all public roads through the implementation of infrastructure-related highway safety improvements. One HSIP project was identified in the study area at the intersection of KY 9 at KY 10 (east of Vanceburg) in Lewis County. The primary improvement is the construction of a right turn slip lane from the AA Highway to the Grayson Spur, with secondary improvements including updating the existing lighting, the existing flashing beacon, and the signing. The project was let for construction in September 2019 and was completed on June 17, 2020. The Preventative Maintenance Management Program includes projects that preserve the existing roadway system, address future deterioration and maintain or improve the functional condition of the system without increasing capacity. One Preventive Maintenance Management project was identified for KY 9 in Lewis County for 2020.

Figure 3. Identified SUA Projects

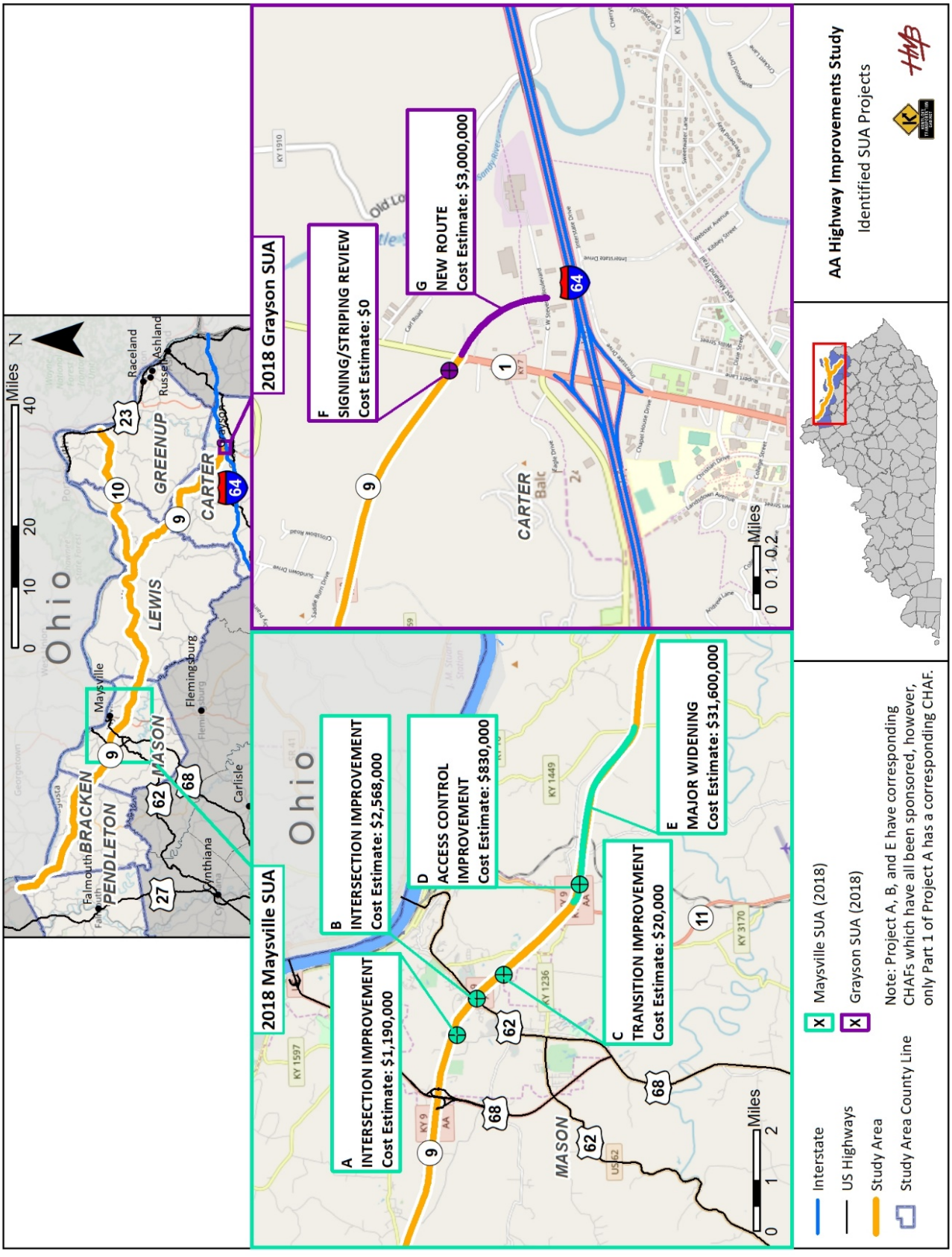


Figure 4. 2020 Sponsored Identified Projects

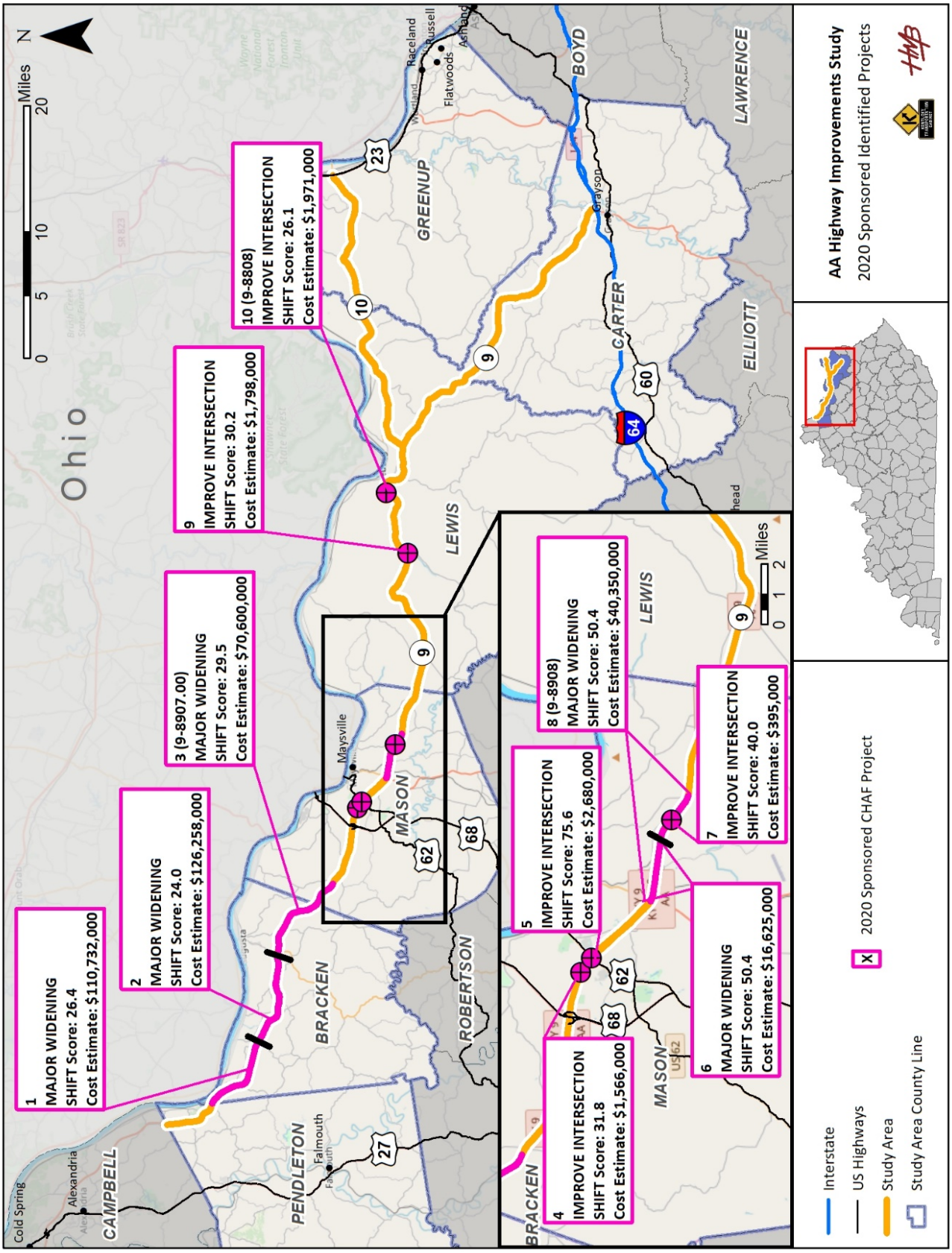


Figure 5. Highway Plan Projects

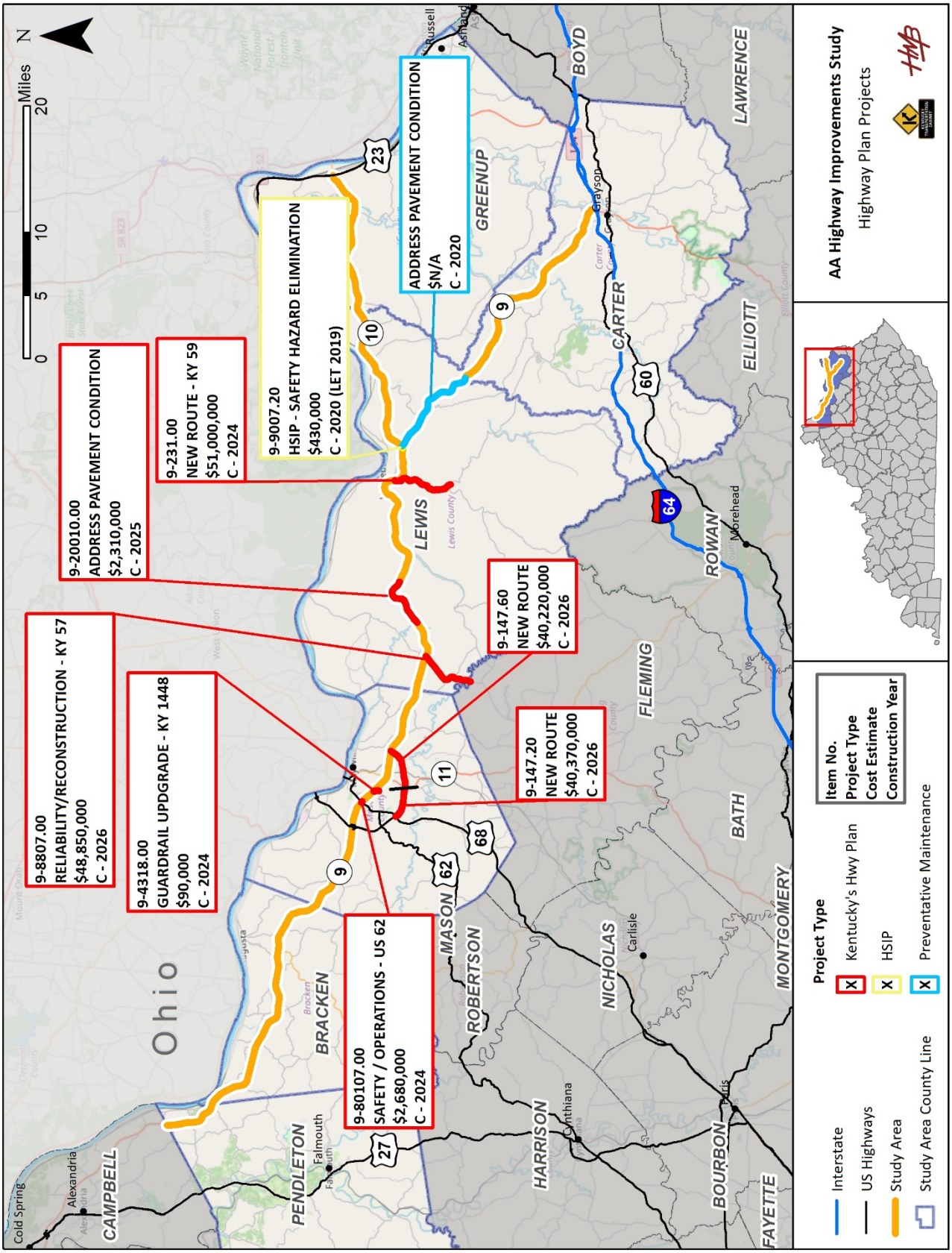


Table 2. Identified Projects

2020 Sponsored CHAFs:

Map ID	Main County	District	ADD/MPO	Project Type	CHAF ID	Item #	Sponsor	Description	Main Route	Begin Mile Point	End Mile Point	Length	Work Type	Improvement Type	2020 SHIFT Score	Total / Estimate
1	Bracken	6	Buffalo Trace ADD	CHAF	IP20070207	-	Buffalo Trace ADD	Reduce congestion on KY 9 from KY 1109 in Bracken County to KY 159 in Pendleton County	KY 9	13.590	19.857	6.267	Major Widening	2 Lane to 4 Lane Divided - Rural	26.4	$110,732,000
2	Bracken	6	Buffalo Trace ADD	CHAF	IP20080277	-	Buffalo Trace ADD	Reduce congestion on KY 9 in Bracken County from KY 19 to KY 1109.	KY 9	5.546	13.590	8.044	Major Widening	2 Lane to 4 Lane Divided - Rural	24.0	$126,258,000
3	Mason / Bracken	9	Buffalo Trace ADD	CHAF	IP20080553	9-8907.00	9	WIDEN KY 9/AA HIGHWAY TO 4 LANES FROM KY 19 TO KY 2370 IN BRACKEN CO. (16CCN)	KY 9	17.343	5.550	7.748	MAJOR WIDENING(O)	2 Lane to 4 Lane Divided - Rural	29.5	$70,600,000
4	Mason	9	Buffalo Trace ADD	CHAF	IP20160298	-	9	Construct right turn lane on NB KY 9 (AA) at intersection of Kenton Station Drive (one of the hospital entrances) to improve safety	KY 9	10.600	10.900	0.300	Safety-Haz-Elm	Improve Intersection	31.8	$1,566,000
5	Mason	9	Buffalo Trace ADD	CHAF	IP20170079	-	9	Improve safety and operational efficiency of the intersection of KY 9 (AA) and US 62 located in Maysville.	KY 9	10.256	10.398	0.142	Safety-Haz-Elm	Improve Intersection	75.6	$2,680,000
6	Mason	9	Buffalo Trace ADD	CHAF	IP20190115	-	9	Improve safety and operational efficiency along KY 9 from 0.3 miles south of Knoweshaw Road to the KY 11 intersection in Maysville.	KY 9	5.600	7.560	1.960	Major Widening	-	50.4	$16,625,000
7	Mason	9	Buffalo Trace ADD	CHAF	IP20150186	-	Buffalo Trace ADD	CONSTRUCT RIGHT TURN LANE (SB) INTO CLARKSON SHERMAN ROAD (LANDFILL, 4.740) TO PROVIDE SAFETY FOR MOTORISTS TRAVELING ALONG THE AA HIGHWAY. (MP 4.6 TO MP 4.9)(14CCN) Replaces 09 081 D0009 1.50	KY 9	4.600	4.900	0.300	Safety-Haz-Elm	Modernize Roadway-Rural	40.0	$395,000
8	Mason	9	Buffalo Trace ADD	CHAF	IP20160183	9-8908	9	WIDEN THE AA HIGHWAY TO 4 LANES FROM KY 1449 TO KY 11. (16CCN)	KY 9	3.781	7.560	3.779	MAJOR WIDENING(O)	2 Lane to 4 Lane Divided - Rural	50.4	$40,350,000
9	Lewis	9	Buffalo Trace ADD	CHAF	IP20110025	-	9	Construct right and left turn lanes at the intersection of KY 989 (MP 18.553) to improve safety and decrease collisions. This intersection has a high volume of turning movements and is located in a long sweeping curve. A Park and Ride is located at this intersection.	KY 9	18.200	18.800	0.600	Safety-Haz-Elm	Improve Intersection	30.2	$1,798,000
10	Lewis	9	Buffalo Trace ADD	CHAF	IP20080547	9-8808	9	RECONSTRUCT INTERSECTION AT KY-9 AND KY-2523. (14CCN)	KY 9	12.709	12.789	0.080	RECONSTRUCTION(O)	Improve Intersection	26.1	$1,971,000

Table 2. Identified Projects (cont.)

Unsponsored CHAFs:

Map ID	Main County	District	ADD/MPO	Project Type	CHAF ID	Item #	Sponsor	Description	Main Route	Begin Mile Point	End Mile Point	Length	Work Type	Improvement Type	2020 SHIFT Score	Total / Estimate
-	Pendleton, Bracken, Mason, Lewis, Greenup, & Carter	6/9	Buffalo Trace ADD/FIVCO/KYOVA	CHAF	IP20190067	-	-	Study for AA highway for safety improvements	KY 9/ KY 10	-	-	119	Transportation Studies	Spot Improvement	-	$260,000
-	Pendleton	6	Buffalo Trace ADD	CHAF	IP20080380	-	-	Improve safety and mobility at intersection with New Hope Road (KY-159)	KY 9	-	-	-		Improve Intersection	-	-
-	Bracken	6	Buffalo Trace ADD	CHAF	IP20150014	6-8902	-	Turn lanes at KY-875 (Mount Zion Road) intersection to improve safety	KY 9	7.500	8.000	0.500	RECONSTRUCTION (O)	Improve Intersection	-	$3,940,000
-	Bracken	6	Buffalo Trace ADD	CHAF	IP20190008	-	-	Improve safety at Iler Road	KY 9	-	-	-		Improve Intersection	-	-
-	Mason	9	Buffalo Trace ADD	CHAF	IP20160301	-	-	Add right-turn lane on KY 9 (AA) southbound at KY 11. The KY 9/KY 11 intersection currently operates and will operate in 2040 at LOS C, and was identified as a high crash location. On KY 9 at KY 11, 10 of 17 crashes (CCRF 1.84) were rear-end. This project also provides for an improvement just east of the intersection where KY 9 transitions from two lanes to one lane.	KY 9	7.000	7.800	0.800	Safety-Haz-Elm	Improve Intersection	-	$1,381,000
-	Mason	9	Buffalo Trace ADD	CHAF	IP20110092	-	-	Increase capacity and decrease conflict points on KY 9. from the Mason County Landfill to the KY 11 intersection. Widen roadway to a 4-lane facility, add turn lanes to side roads, and provide overhead lighting at side road approaches to increase safety.	KY 10	5.000	7.560	2.560	Major Widening	-	-	$23,120,000
-	Mason	9	Buffalo Trace ADD	CHAF	IP20060255	-	-	Increase capacity and decrease conflict points on KY 9 from the Lewis County Line, MP 0.00 to existing 4 lanes near KY 11 (MP 7.60) to support 2025 traffic volumes, address sight distance concerns, improve intersection safety and reduce speed differentials.	KY 9	0.000	7.560	7.560	Major Widening	-	-	$83,818,000
-	Mason	9	Buffalo Trace ADD	CHAF	IP20110093	-	-	Increase capacity, safety, and decrease conflict points on KY9 (AA Hwy) from the Lewis County Line to just North of the Mason County Landfill access road; to support 2025 traffic volumes, address sight distance concerns, improve intersection safety and reduce speed differentials.	KY 9	0.000	5.000	5.000	Major Widening	-	-	$43,699,000
-	Lewis	9	Buffalo Trace ADD	CHAF	IP20110103		-	Reconstruct KY 9 (AA Highway) from south of the KY 59 intersection to north of Hazel Branch. Improve Safety, lengthen left turn lanes, add right turn lanes, add street lighting, cut slope revisions to increase sight distance and reduce maintenance costs, lower the speed limit to 45 through this area where a lot of youth travel to the (4) school locations. This is considered the "Vanceburg" area of the AA and has commercial development, schools, industry, and several approach roads.	KY 9	10.500	13.500	3.000	Reconstruction	-	-	$15,508,000
-	Carter	9	FIVCO	CHAF	IP20080528	-	-	Relieve traffic congestion and improve operational efficiency of KY 9 beginning at KY 1 in Grayson (MP 0.0) and ending at the Lewis County Line (MP 18.3).	KY 9	0.000	18.262	18.262	Major Widening	-	-	$214,311,000
-	Carter	9	FIVCO	CHAF	IP20080529	-	-	Improve geometric configuration of the KY 9/KY 1959 intersection to decrease rear end crashes on KY 9 at the intersection with KY 1959 (KY 9 MP 1.078) Add right turn lane on KY 9 NB, Utilize the existing shoulder.	KY 9	0.978	1.078	0.100	-	Improve Intersection	-	$145,000

Table 2. Identified Projects (cont.)

2018 SUA Projects:

Map ID	Main County	District	ADD/MPO	Project Type	SUA Project ID	Item #	Sponsor	Description	Main Route	Begin Mile Point	End Mile Point	Length	Work Type	Improvement Type	2020 SHIFT Score	Total / Estimate
A*	Mason	9	Buffalo Trace ADD	Maysville SUA (2018)	M	-	9	1. Add right-turn lane on KY 9 at hospital entrance, and /or 2. Extend 45 mph speed limit.	KY 9	-	-	-	-	-	-	$1,190,000
B**	Mason	9	Buffalo Trace ADD	Maysville SUA (2018)	EE	-	9	Reduce lane widths and add turn lanes where possible at the intersection of KY 9 and US 62. PIF No. 09 081 B0062 1.00	KY 9 / US 62	-	-	-	-	-	-	$2,568,000
C	Mason	9	Buffalo Trace ADD	Maysville SUA (2018)	T	-	-	Reconfigure Market Square Drive/Tucker Drive/Walmart Way intersection. Eliminate left turns from Tucker Drive to KY 9, and relocate Market Square Drive 500 feet west	-	-	-	-	-	-	-	$830,000
D	Mason	9	Buffalo Trace ADD	Maysville SUA (2018)	L	-	-	Improve KY 9 transition from four lanes to two lanes between KY 11 and Strodes Run Pike.	KY 9	-	-	-	-	-	-	$20,000
E***	Mason	9	Buffalo Trace ADD	Maysville SUA (2018)	X	9-8908.00	9	Widen KY 9 to four lanes from KY 1449 to KY 11. SP (State funds: 2017 Design funds on hold	KY 9	-	-	-	-	-	-	$31,600,000
F	Carter	9	FIVCO	Grayson SUA (2018)	H	-	-	District 9 will review signage/striping for KY 9 in advance of the intersection with KY 1, but no improvement project is recommended.	KY 9	-	-	-	-	-	-	$0
G	Carter	9	FIVCO	Grayson SUA (2018)	J	-	-	Construct a new 0.360-mile-long, two-lane roadway connecting CW Stevens Boulevard north to KY 9 at KY 1. (Section 1 of 3.)	-	-	-	-	-	-	-	$3,000,000

* Part 1 of Project A (Maysville SUA Project M) is in the CHAF system as IP20160298 (Map ID 4). Part 2: Extend 45 mph speed limit is TBD

** Project B is in the CHAF system as CHAF ID IP20170079 (Map ID 5).

*** Project E is in the CHAF system as CHAF ID IP20160183 (Map ID 8, SYP: 9-8908)

CHAPTER 2

EXISTING CONDITIONS

Chapter 2 – Existing Conditions

In this chapter, the existing transportation network conditions are presented. This includes information on the roadway facility type and geometrics, structures, traffic volumes and operations, and crash history and analysis. Data for this chapter was collected from KYTC's Highway Information System (HIS) database, bridge inspection reports, National Bridge Inventory forms, the KYTC Traffic Count Reporting System, site visits, and existing archive project plans.

Per the Federal Highway Administration's (FHWA) 2019 Bicycle and Pedestrian Planning, Program, and Project Development, guidance states that pedestrian and bicycle needs must be given "due consideration" under Federal transportation law. The AA Highway does not have designated pedestrian or bicycle facilities nor is it currently part of a designated touring route. As specific improvement concepts were developed, opportunities for pedestrian and bicycle accommodations were considered.

Consideration of transit systems and opportunities is another area of consideration for studies. The AA Highway does not have designated or fixed transit routes currently in the majority of the project area. The majority of the highway is designated as rural with low potential of transit usage. In the Maysville area (the urban portion of the AA Highway), the Maysville City Transit operates.

2.1 Functional Class and Roadway Systems

Functional Class

Functional classification is the process of grouping streets and highways by character of travel service and access to adjacent land uses. According to the HIS database, the entirety of the AA Highway in the study area is classified as a Principal Arterial. A Principal Arterial is a roadway that provides a high level of traffic mobility for substantial statewide travel and / or serves major activity centers and the longest trip demands. Per AASHTO's *A Policy on Geometric Design of Highways and Streets, 7th Edition (2018),* a broader context is used to describe urban versus rural for geometric design. Five contexts are used based on development density, land uses, and building setbacks. The Rural Context applies to the majority of the study area. Through the incorporated Maysville section, the Suburban / Urban Context applies.

National Highway System

The National Highway System (NHS) is a network of strategic highways within the United States. The AA Highway is listed as "Other NHS Route". As such, it falls under the monitoring and performance for the Federal Highway System (FHWA) Practices for Performance-Based Planning and Programming. Improvement concepts that are identified as part of this study should consider the impact on Kentucky's performance measures as these are reported to FHWA.

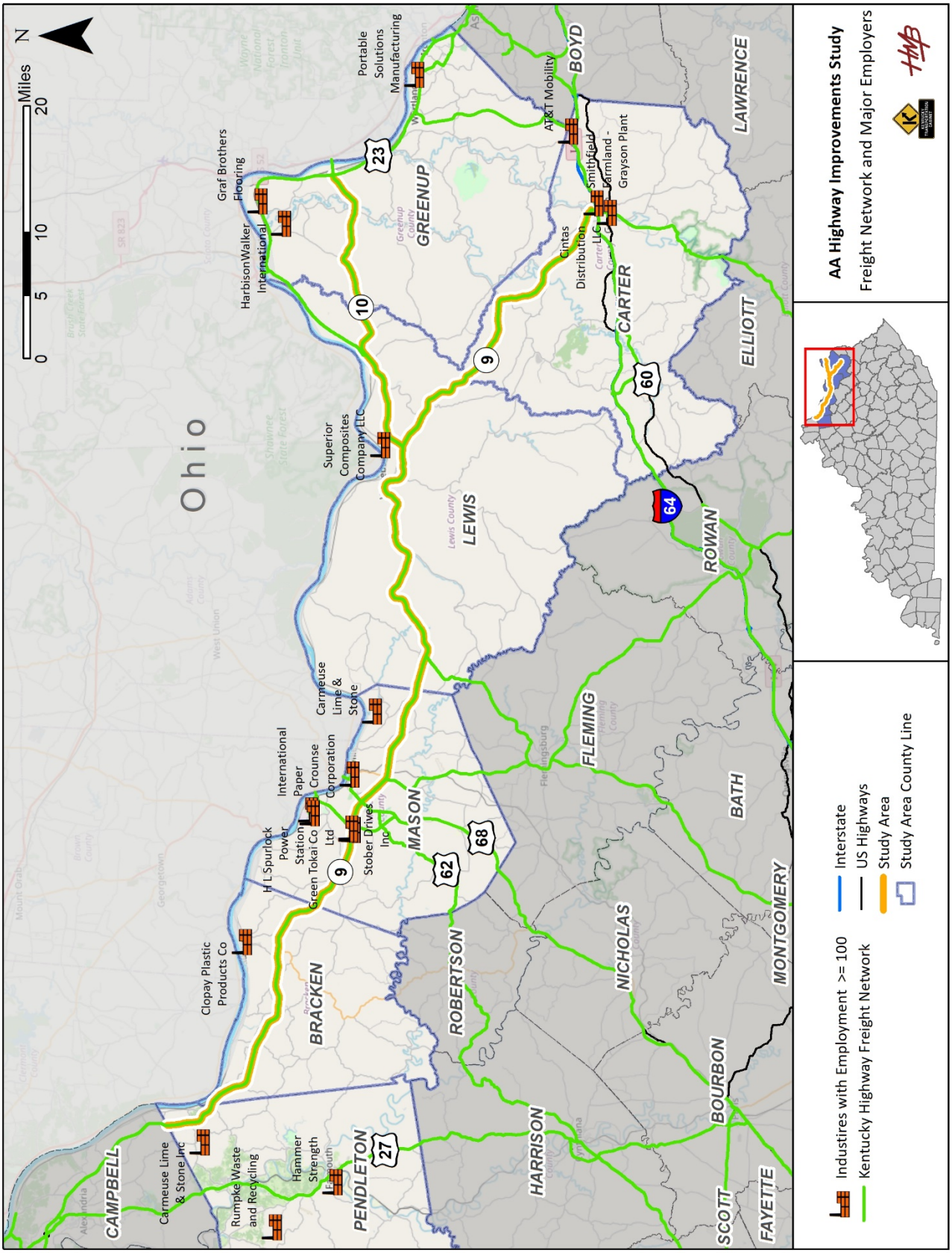
Truck Routes

The AA Highway is an important link in Kentucky's freight network (as shown in **Figure 6**), carrying between 10 to 20 percent trucks in the study area. The locations of major employers (those with over 100 employees) were identified since they contribute to this truck traffic. These are displayed along with the freight network on **Figure 6**.

2.2 Roadway Geometric Characteristics

Current geometric characteristics of the AA Highway were identified through HIS queries and existing archive plans and compared with roadway design standards and common practices as set forth in AASHTO's *A Policy on Geometric Design of Highways and Streets, 7th Edition (2018).* Highway data assembled from HIS for use in this study includes typical sections, speed limits, and horizontal and vertical curves.

Figure 6. Freight Network and Major Employers



Typical Sections

The typical section of the AA Highway varies throughout the study area. Predominantly it is two lanes (63% of the corridor or 74.4 miles) with one travel lane in each direction. Truck climbing lanes are interspersed throughout the study area accounting for 29% of the corridor or 33.6 miles. There is a segment of four-lane highway between MP 7.4 and MP 17.2 in Mason County which is 8% of the corridor, or 9.8 miles. The lane width is 12 feet throughout the corridor. The shoulder widths vary between 10 and 12 feet, except for an urban area in Maysville which has shoulder widths of 2 feet with curb and gutter. **Figure 7** displays the locations of the various truck climbing lanes as well as the portion of four-lane highway.

Speed Limits

The posted speed limit is 55 mph along the study corridor with the exception of the portion through Maysville between MP 9.2 and MP 10.6 in Mason County which is signed as 45 mph. HERE speed data was provided by KYTC for the AA Highway by milepoint for the years 2015 – 2017. The data is per 24-hour time periods during weekdays and includes minimum speed, maximum speed, and the 85th percentile speed. The 85th percentile speed is the speed at or below which 85 percent of all vehicles are observed to travel under free-flowing conditions past a monitored point. Typically, the speed limit should be within five miles per hour (mph) plus or minus the 85th percentile speed. The following observations can be made from the plotted data:

- Throughout the study area, the maximum speed and 85th percentile speed is approximately the same value.
- The 85th percentile speed and maximum speed are on average ten mph over the posted speed limit of 55 mph in Pendleton and Bracken Counties.
- The 85th percentile speed and maximum speed are on average eight mph over the posted speed limit of 55 mph in the rural portion of Mason County and from the Mason / Lewis County Line to the KY 9 / KY 10 split.
- The 85th percentile speed and maximum speed are on average five mph over the posted speed limit of 55 mph on KY 10 in Lewis County.
- The 85th percentile speed and maximum speed are on average ten mph over the posted speed limit in Carter County.
- The 85th percentile and maximum speed are on average five mph over the posted speed limit of 55 mph in Greenup County.

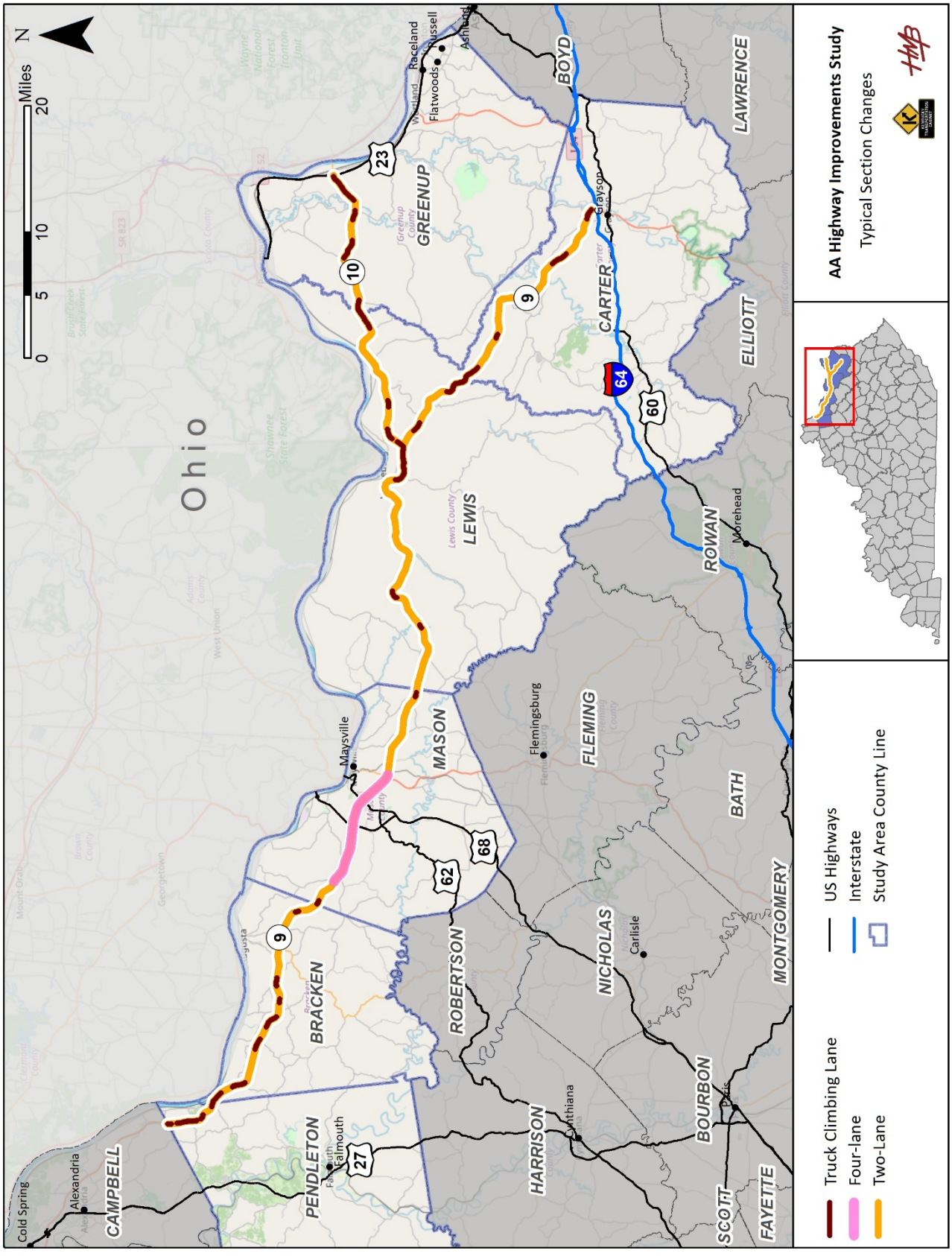
For additional detail on speed data, the plotted data is included in **Appendix A**.

Horizontal and Vertical Curves

Information was extracted from the existing archive plans of the AA Highway to assess whether the horizontal and vertical curves meet current design standards according to *A Policy on Geometric Design of Highways and Streets, 7th Edition (2018)*.

Vertical alignment elements are based on grade and curvature. The maximum grade on the AA Highway falls in the range of 4.5 to 6.4%, which meets the design criteria for 55 mph rural sections through rolling terrain. All crest vertical curves meet stopping sight distance design criteria for 45 mph in the urban section and 55 mph in the rural sections. All sag vertical curves meet headlight sight distance needed for 45 mph urban design and 55 mph rural design.

Figure 7. Typical Section Changes



There are 10 horizontal curves that do not meet design criteria for a 55 mph design speed according to the e_{max} = 8% minimum radii Table 3-10 from *A Policy on Geometric Design of Highways and Streets, 7th Edition (2018)*. However, the calculated side friction factor based on Equation 3-7 for each of these curves does not exceed 0.13, which is the maximum recommended side friction factor for a 55 mph design speed based on Figure 3-3. Crash history was analyzed at each of these curves. Three curve locations had roadway departure crashes associated with them that might be attributed to the geometrics of the curves (MP 11.133 – MP 10.812, MP 9.854 – 9.769, and MP 9.617 – MP 9.553 all in Lewis County). The locations of the curves identified as having potential design deficiencies are shown on **Table 3** and **Figure 8**.

Table 3. Geometrically Deficient Horizontal Curves

Horizontal Curve Inventory											
Route	County	Begin Milepoint	End Milepoint	Radius (ft)	Super-elevation	8% Table Design Speed	Posted Speed Limit	Design Speed Meets Posted Speed Limit	Calculated Friction Factor (Rec. Max is 0.13)	Crashes (within 0.3 Miles)	Roadway Departure Related Crashes
KY 9	Lewis	15.797	15.624	4584	2.80%	50	55	NO	0.02	3	0
KY 9	Lewis	14.775	14.652	2865	4.40%	50	55	NO	0.03	1	0
KY 9	Lewis	14.428	14.011	1910	5.40%	50	55	NO	0.05	0	0
KY 9	Lewis	13.508	13.233	2865	4.40%	50	55	NO	0.03	5	0
KY 9	Lewis	13.093	12.904	1432	5.90%	45	55	NO	0.08	3	0
KY 9	Lewis	12.419	11.668	2865	4.40%	50	55	NO	0.03	1	0
KY 9	Lewis	11.133	10.812	2292	5.00%	50	55	NO	0.04	4	3
KY 9	Lewis	9.854	9.769	1273	6.00%	45	55	NO	0.10	7	7
KY 9	Lewis	9.617	9.553	1273	6.00%	45	55	NO	0.10	8	8
KY 9	Carter	4.669	4.472	3850	3.44%	50	55	NO	0.02	1	0

2.3 Structures

Structures identified through KYTC's Bridge Data Miner service can be seen in **Figure 9**. A bridge is classified as structurally deficient if the deck, superstructure, substructure, or culvert is rated in "Poor" or worse condition (any with condition rating of four or less on the FHWA National Bridge Inventory (NBI) condition rating scale in accordance with the Pavement and Bridge Condition Performance Measures final rule). There were no structures identified with a Poor rating within the study area, and therefore no structures identified as structurally deficient. A bridge sufficiency rating (SR) varies from 0 percent (poor) to 100 percent (very good) and was formulated by FHWA to serve as a prioritization to allocate funding. It is calculated based on 55% on the structural evaluation, 30% on the obsolescence of its design, and 15% on its importance or the level of service provided to the public. As of 2008, a score of 80 or less is required for federal repair funding, and 50 or less for federal replacement funding. There are two structures with a SR less than 80 located on KY 9 in Bracken County (MP 9.9 and MP 10.4). There are no structures in the study area with a SR less than 50.

Figure 8. Geometric Design Deficiencies

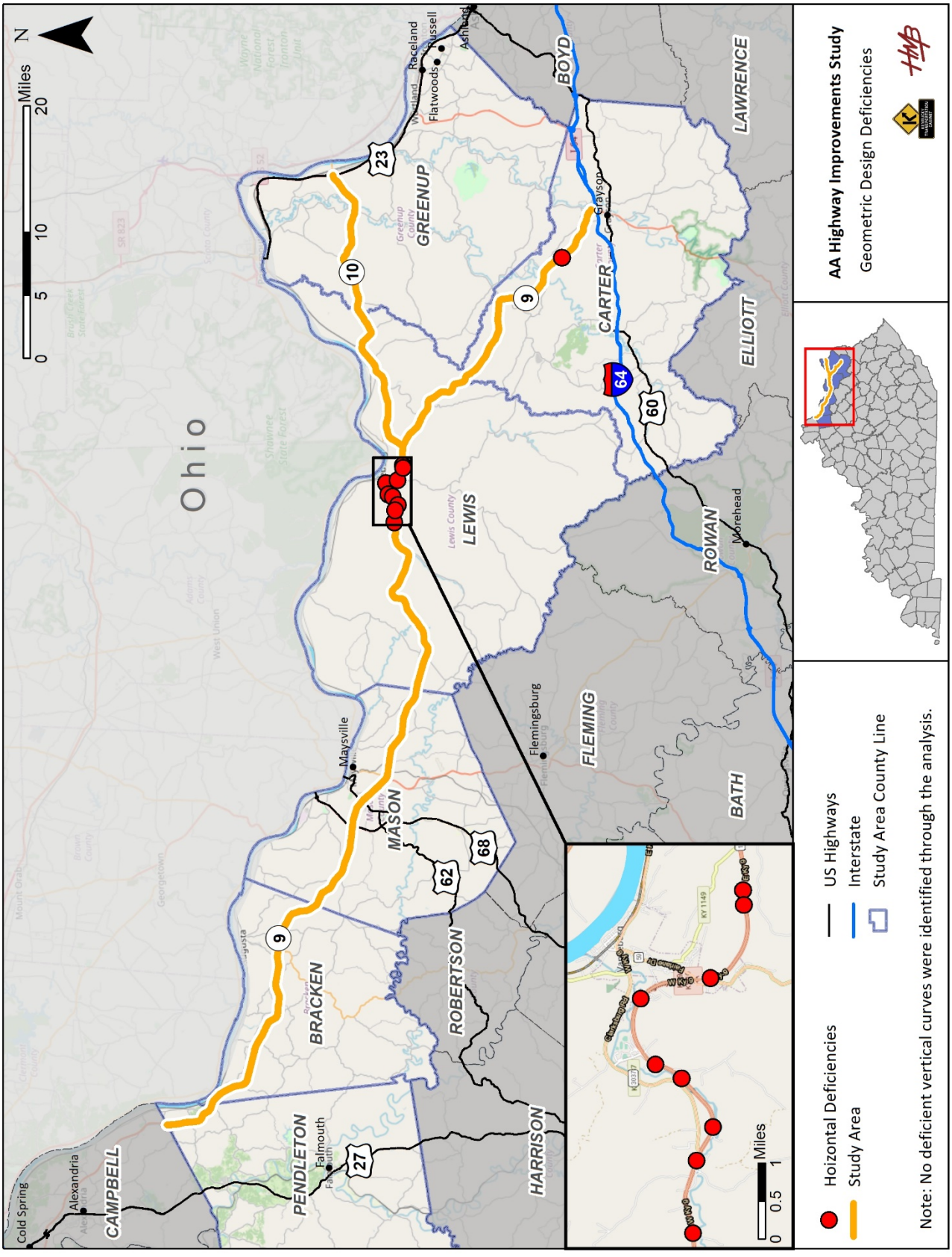
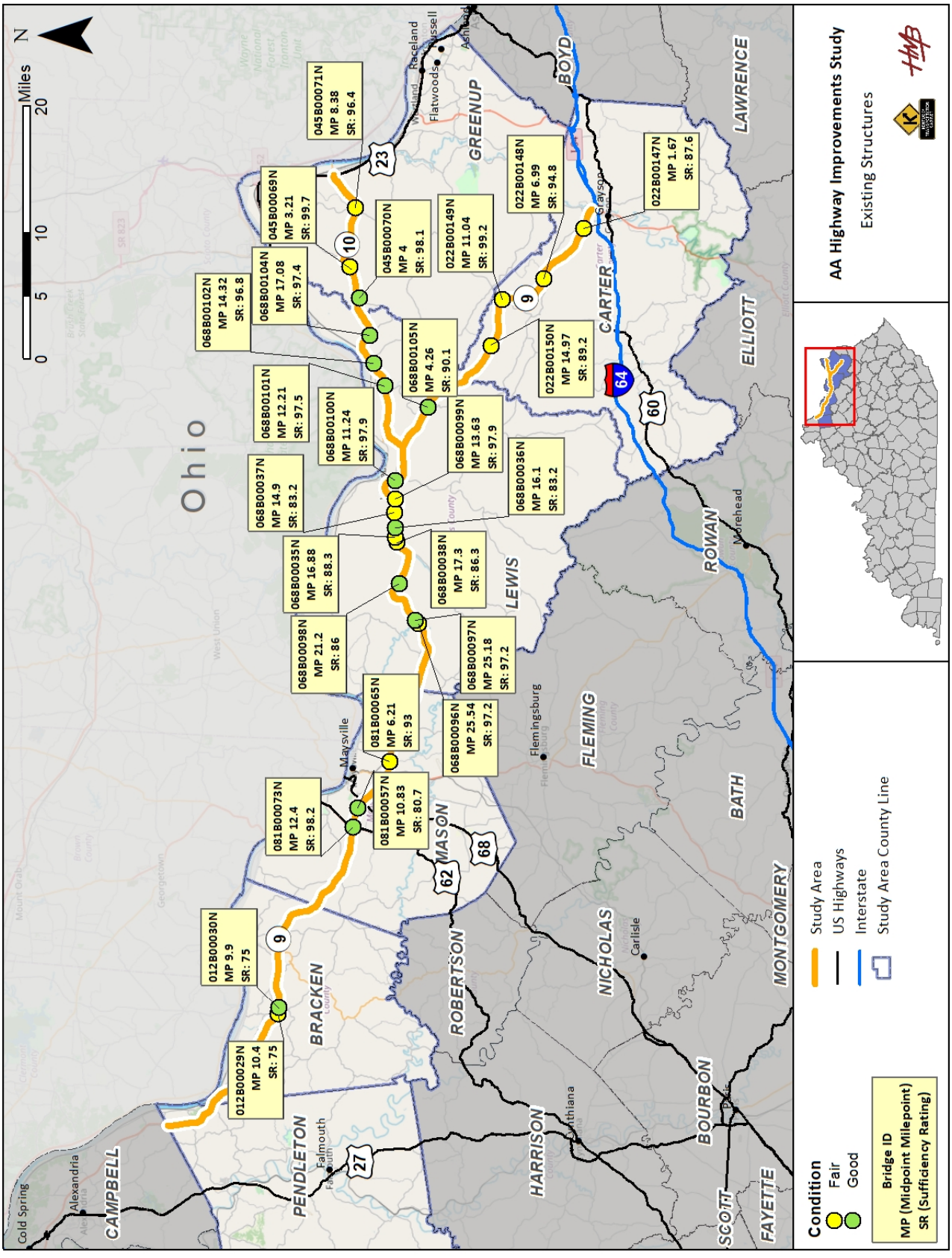


Figure 9. Existing Structures - Condition

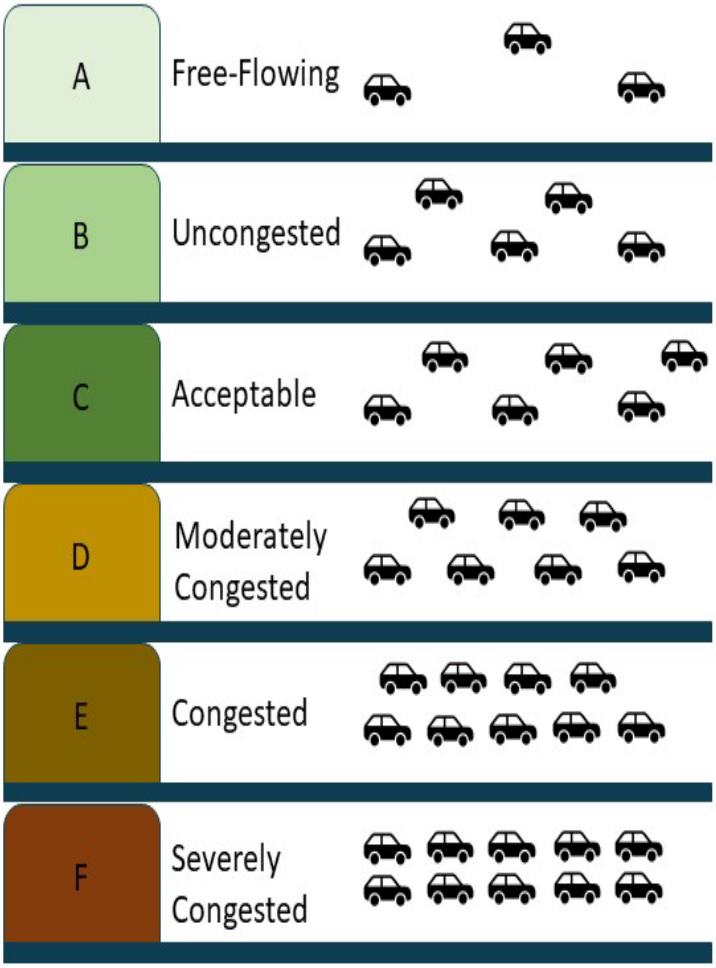


2.4 Existing Traffic Volumes and Operational Analysis

Existing year (2020) traffic volumes for the AA Highway are based on the most recent KYTC count stations. The count years range from 2014 – 2019. Year 2020 volumes were calculated from these counts, applying a growth factor based on historic trends and the Kentucky Statewide Traffic Model. The range of average annual daily traffic (AADT) for 2020 is shown on **Figure 10**.

A level of service (LOS) analysis was performed for mainline AA Highway segments using *Highway Capacity Software (HCS7)*. LOS is a qualitative measure of determining the operational characteristics of a roadway facility. It is used to define the quality of traffic operations based on measures such as vehicle speed, travel time, comfort and convenience, maneuverability, congestion, and delay. There are six levels of service for each type of facility. The levels are designated by letters, from A to F, with LOS A representing the best operating conditions and LOS F the worst. Acceptable operations for roadways in rural areas are LOS C or better, and in urban areas LOS D or better. **Figure 11** presents a graphical depiction of LOS for reference.

Figure 11. Level of Service (LOS) Designations



In addition to providing the range of traffic flow according to letter grade, another reported performance measure is Volume to Capacity (V/C) ratio which represents the proportion of traffic demand using the roadway for a designated time period in relation to its theoretical capacity to serve the demand. A V/C ratio equal to or greater than 0.9 in rural areas and 1.0 in urban areas indicates the road is operating at or above its theoretical design capacity.

The levels of service and V/C ratios were determined for existing (2020) conditions. All segments operate at an acceptable LOS (LOS C or better). The V/C ratios are all 0.25 or less, indicating mainline capacity is not an issue. The existing (2020) LOS results are summarized in **Figure 12**.

Figure 10. 2020 AADT Range

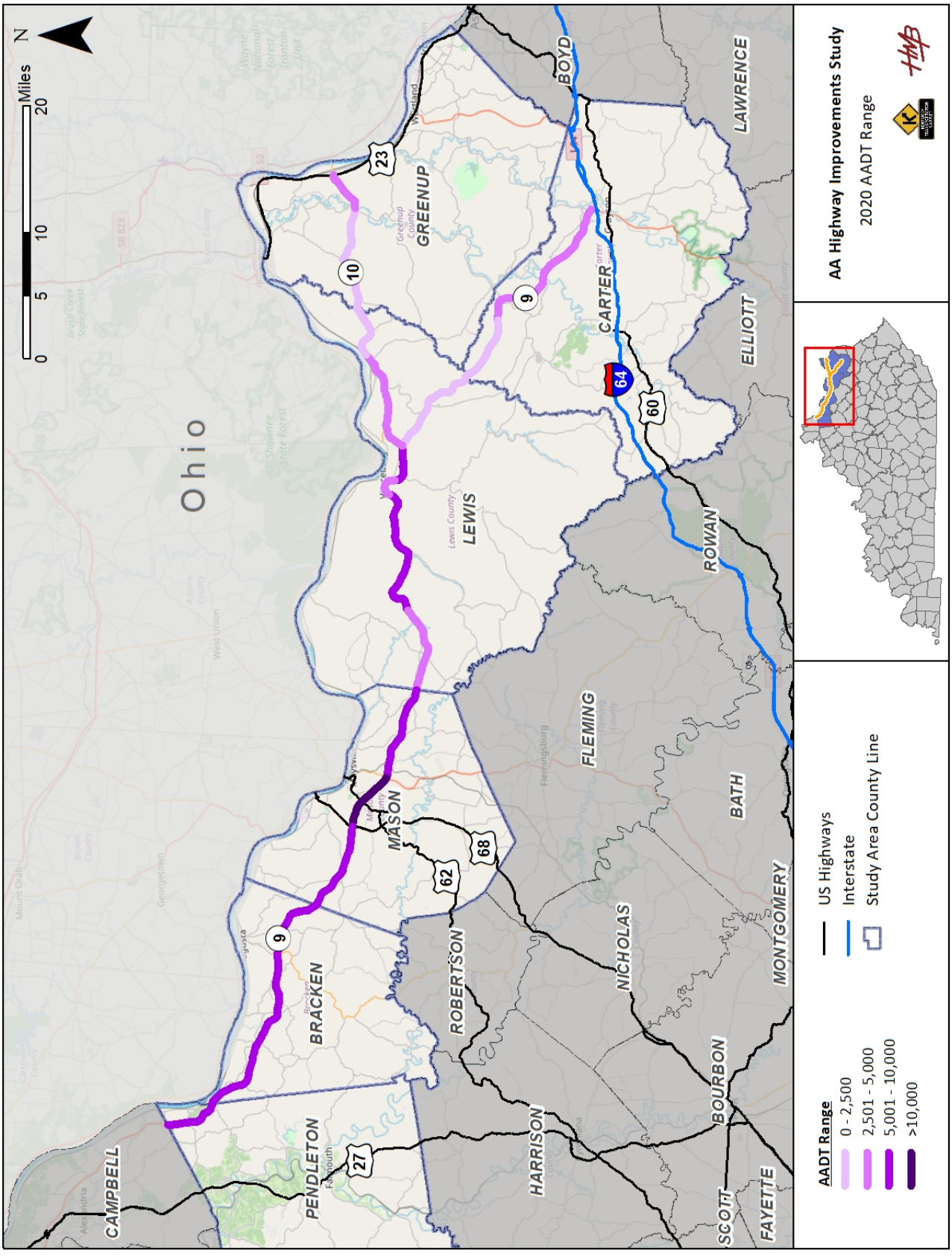
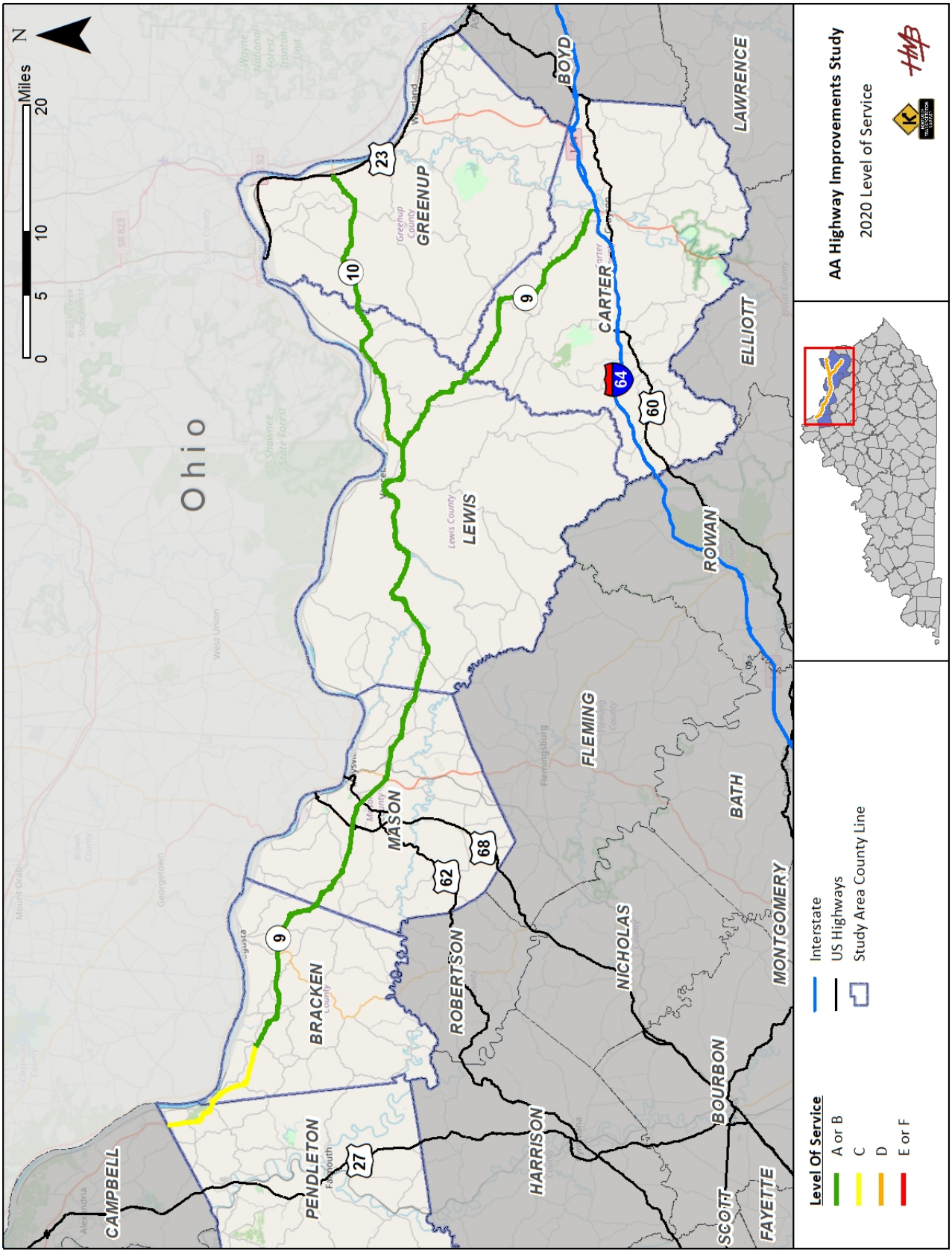


Figure 12. 2020 Level of Service



2.5 Crash Analysis

As part of this study, historical crash data was analyzed to identify locations along the portion of the AA Highway in the study area that could be considered high crash locations. Historical crash records were extracted from the Kentucky State Police's (KSP) *Collision Database* for a five-year period (November 2014 – October 2019).

Crash Analysis Methods

The statistical crash analysis was performed based on methods that compare existing crash rates with crash rates of similar types of facilities. These methods included the Critical Crash Rate method and the Excess Expected Crashes (EEC) method. Statewide crash rates and methodologies were provided by the Kentucky Transportation Center (KTC) and found in the 2018 *Analysis of Traffic Crash Data in Kentucky (2014-2018 data)*. Detailed crash reports were analyzed for specific locations as needed.

1. Excess Expected Crashes - KYTC crash analysis methodology has been evolving, transitioning from the Critical Crash Rate method and progressing toward the EEC methodology based on the AASHTO Highway Safety Manual (HSM) procedures. HSM methods allow for the ability to estimate potential crash frequency on roadways, and the potential effects that differences in roadway characteristics have on crashes (e.g. a 3-foot shoulder versus a 10-foot shoulder). If the EEC is positive, it indicates more crashes have occurred than expected in the segment. If the EEC is negative, it indicates that there are fewer crashes than expected. KTC provided the EEC along with the factors and formulas to use for each segment of the study corridor. KTC uses a tool called CDAT (Crash Data Access Tool) which accesses crash data from 2013 to 2017.

   EEC analysis uses historical observed crash data for a specified time period and segment length. The segments are based on KYTC's traffic count segments, and those typically change when there is a change in roadway characteristic or breakpoint such as an intersecting road. The analysis was completed for the AA Highway study corridor as a segment analysis but did not include intersection analysis. The number of crashes for each segment was broken down based on severity as well and is shown alongside the EEC. These severities are classified based on the FHWA KABCO Injury Classification Scale. Each state may have slight variances in the definitions of these classifications. Kentucky defines KABCO as follows:

   - K – Fatal: indicates the person was killed as a result of the collision and died within 90 days of the collision.
   - A – Incapacitating: any non-fatal injury which prevents the person from walking, driving, or normally continuing the activities he / she could perform prior to the collision and does require medical attention. Includes severe lacerations, broken limbs, skull fracture, internal injuries, unconsciousness when leaving the scene, or inability to leave scene without assistance.
   - B – Non-incapacitating: evident to observers at the collision scene such as minor lacerations, bruises, and abrasions.
   - C – Possible Injury: claim of injury and / or pain that is not evident to the eye. Includes momentary unconsciousness, limping, nausea, and hysteria.
   - O – No Injury detected (property damage only).

   There was a total of -331.4 EEC along the mainline of the AA Highway between 2013 and 2017, indicating that there are significantly fewer crashes than expected when analyzing

the segments that make up the study area. An overview of the EEC by segment and county is presented in **Table 4.**

Table 4. CDAT Excess Expected Crashes by Segment (2013-2017)

AA Highway CDAT Excess Expected Crashes by Segment (2013-2017)																	
County	Segment No.	Location			Length	AADT	Lanes	Divided or Undivided	Rural or Urban	Crashes						Adjusted EEC
		Roadway	Begin Milepoint	End Milepoint						K	A	B	C	O	Total	
Pendleton	30	KY 9	0	4.339	4.339	7,608	2	Undivided	Rural	1	1	6	3	31	42	-29.9
Bracken	29	KY 9	13.585	19.857	6.272	7,159	2	Undivided	Rural	0	3	5	6	54	68	-34.7
Bracken	28	KY 9	10.259	13.585	3.326	6,317	2	Undivided	Rural	0	2	3	4	27	36	-14.3
Bracken	27	KY 9	5.546	10.259	4.713	5,463	2	Undivided	Rural	0	1	1	0	32	34	-24.3
Bracken	26	KY 9	0	5.546	5.546	6,180	2	Undivided	Rural	0	2	1	4	32	39	-35.2
Mason	25	KY 9	19.293	19.541	0.248	6,180	2	Undivided	Rural	0	0	0	0	2	2	-1.4
Mason	24	KY 9	17.049	19.293	2.244	5,695	2	Undivided	Rural	0	2	3	1	14	20	-10.1
Mason	23	KY 9	16.179	17.049	0.870	6,339	4	Divided	Rural	0	0	1	0	4	5	1.0
Mason	22	KY 9	15.754	16.179	0.425	8,570	4	Divided	Rural	1	0	0	0	4	5	2.1
Mason	21	KY 9	12.395	15.754	3.359	8,961	4	Divided	Rural	0	6	5	9	56	76	42.6
Mason	20	KY 9	10.744	12.395	1.651	12,309	4	Undivided	Urban	2	3	4	7	33	49	-35.0
Mason	19	KY 9	10.256	10.744	0.488	13,720	4	Undivided	Urban	0	0	1	6	57	64	35.1
Mason	18	KY 9	8.969	10.256	1.287	13,130	4	Divided	Urban	0	1	5	13	82	101	73.0
Mason	17	KY 9	7.56	8.969	1.409	11,808	4	Divided	Urban	0	1	2	3	47	53	25.3
Mason	16	KY 9	3.781	7.56	3.779	8,072	2	Undivided	Rural	1	1	7	6	47	62	-13.2
Mason	15	KY 9	0	3.781	3.781	5,945	2	Undivided	Rural	1	2	7	4	40	54	-6.4
Lewis	14	KY 9	28.38	31.218	2.838	4,973	2	Undivided	Rural	0	4	2	5	15	26	-9.3
Lewis	13	KY 9	24.256	28.38	4.124	4,863	2	Undivided	Rural	2	1	0	3	10	16	-25.5
Lewis	12	KY 9	18.553	24.256	5.703	5,421	2	Undivided	Rural	0	1	1	0	9	11	-46.8
Lewis	11	KY 9	14.565	18.553	3.988	5,787	2	Undivided	Rural	1	0	1	1	14	17	-29.5
Lewis	10	KY 9	13.049	14.565	1.516	6,106	2	Undivided	Rural	1	0	0	0	5	6	-12.2
Lewis	9	KY 9	11.205	13.049	1.844	4,935	2	Undivided	Rural	0	0	0	1	5	6	-12.3
Lewis	8	KY 9	8.048	11.205	3.157	5,022	2	Undivided	Rural	0	0	2	5	17	24	-13.4
Lewis	7	KY 9	4.637	8.048	3.411	2,283	2	Undivided	Rural	2	1	0	0	4	7	-10.3
Lewis	6	KY 9	0	4.637	4.637	2,302	2	Undivided	Rural	1	0	0	1	2	4	-17.1
Carter	5	KY 9	12.821	18.262	5.441	2,208	2	Undivided	Rural	0	0	1	2	6	9	-16.8
Carter	4	KY 9	11.324	12.821	1.497	3,092	2	Undivided	Rural	0	0	0	0	2	2	-7.1
Carter	3	KY 9	5.486	11.324	5.838	2,999	2	Undivided	Rural	0	0	1	4	11	16	-22.4
Carter	2	KY 9	1.078	5.486	4.408	3,934	2	Undivided	Rural	0	1	1	0	20	22	-18.0
Carter	1	KY 9	0	1.078	1.078	4,532	2	Undivided	Rural	0	0	0	1	4	5	-5.6
Lewis	31	KY 10	6.788	8.68	1.892	2,504	2	Undivided	Rural	0	1	0	0	4	5	-5.8
Lewis	32	KY 10	8.68	12.086	3.406	2,561	2	Undivided	Rural	1	0	0	5	9	15	-7.5
Lewis	33	KY 10	12.086	15.192	3.106	4,510	2	Undivided	Rural	0	0	0	0	9	9	-19.3
Lewis	34	KY 10	15.192	17.398	2.206	1,333	2	Undivided	Rural	0	0	0	0	1	1	-4.8
Lewis	35	KY 10	17.398	19.834	2.436	1,118	2	Undivided	Rural	0	0	0	0	1	1	-4.3
Greenup	36	KY 10	0	0.551	0.551	1,118	2	Undivided	Rural	0	0	0	0	0	0	-1.1
Greenup	37	KY 10	0.551	3.875	3.324	1,350	2	Undivided	Rural	0	0	0	2	6	8	-4.1
Greenup	38	KY 10	3.875	8.289	4.414	1,756	2	Undivided	Rural	0	0	2	4	13	19	-4.2
Greenup	39	KY 10	8.289	11.582	3.293	2,860	2	Undivided	Rural	0	0	0	2	13	15	-8.6

2. Critical Crash Rate - KYTC uses a systematic procedure to identify locations having high crash rates. The actual number of crashes, as obtained from the KSP Collision Database, occurring within a roadway segment is used to calculate the Actual Crash Rate using the number of crashes, roadway length, AADT, and the number of years for which crash data is being examined. Using an analysis procedure from KTC and referenced in *The Analysis of Traffic Crash Data in Kentucky (2014-2018)*, Actual Crash Rates are compared to the Critical Crash Rates for similar types of Kentucky roadways. The Critical Crash Rate is the rate which is statistically greater than the Average Crash Rate for similar roadways, and it represents a rate which crashes may be occurring in a non-random fashion. This ratio of Actual Crash Rate to the Critical Crash Rate is the Critical Crash Rate Factor (CRF). Thus, a CRF greater than 1.0 indicates crashes may be occurring more often than can be attributed to random occurrence. This procedure is used as a screening technique indicating locations where further analysis may be needed. It is not a definitive statement of a crash problem, nor a measurement of a crash problem.

   Crashes were analyzed in 0.3-mile "spots" over the entire length of the study corridor. Based on this analysis, there were 26 high crash spots identified throughout the corridor, and 11 spots identified as approaching a high crash identification (CRF of 0.90 to 0.99). Along with analyzing the CRF in these spots, an EEC analysis was performed for each based on the method described above in Section 2.5.1. An overview of the high crash spot locations is presented in **Figure 13**, and an overview of the CRF spots and their corresponding EECs is presented in **Table 5**. CRFs highlighted in red in the table are values that are above the 1.0 threshold.

3. CRF and EEC Comparison - To further analyze the crash data, a comparison between the CRF and EEC methodologies was performed. For each high CRF spot (greater than 1.0), an EEC analysis was performed for the same segment. Higher CRFs generally correlated to higher EEC and vice-versa, however the two cannot be directly compared. This is because the EEC analysis was based on CDAT data from 2013-2017 and did not include the intersection-ramps. Furthermore, as ADT goes up, CRF goes down. However, the opposite is true with EEC; as AADT goes up, the EEC goes up. The EEC value for each spot is presented alongside the CRFs in **Table 5.** The results are formatted so that relatively higher values are a darker shade of red.

Figure 13. High CRF Spots (0.3 Mile)

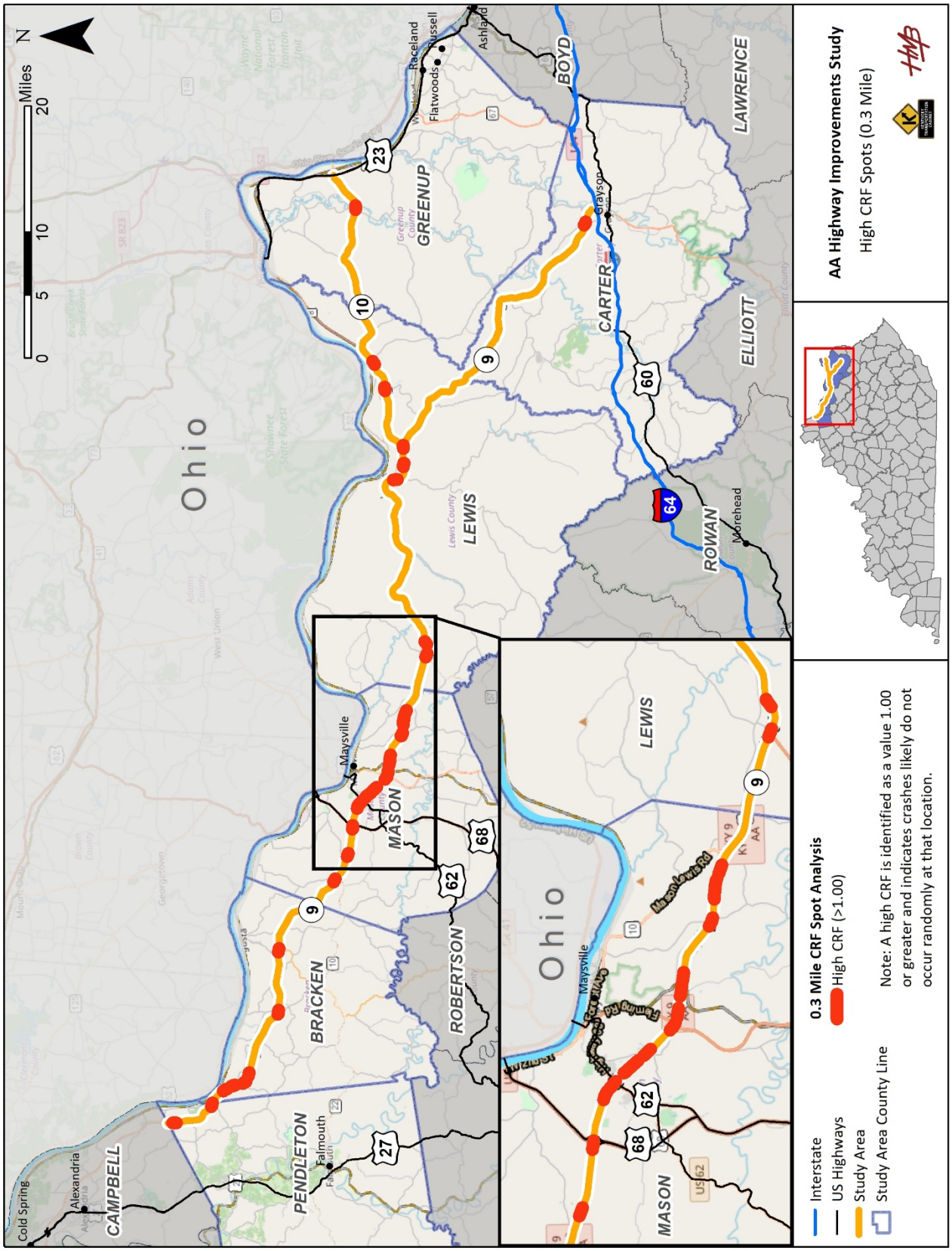


Table 5. High CRF Spots (0.3 Mile) with Corresponding EECs

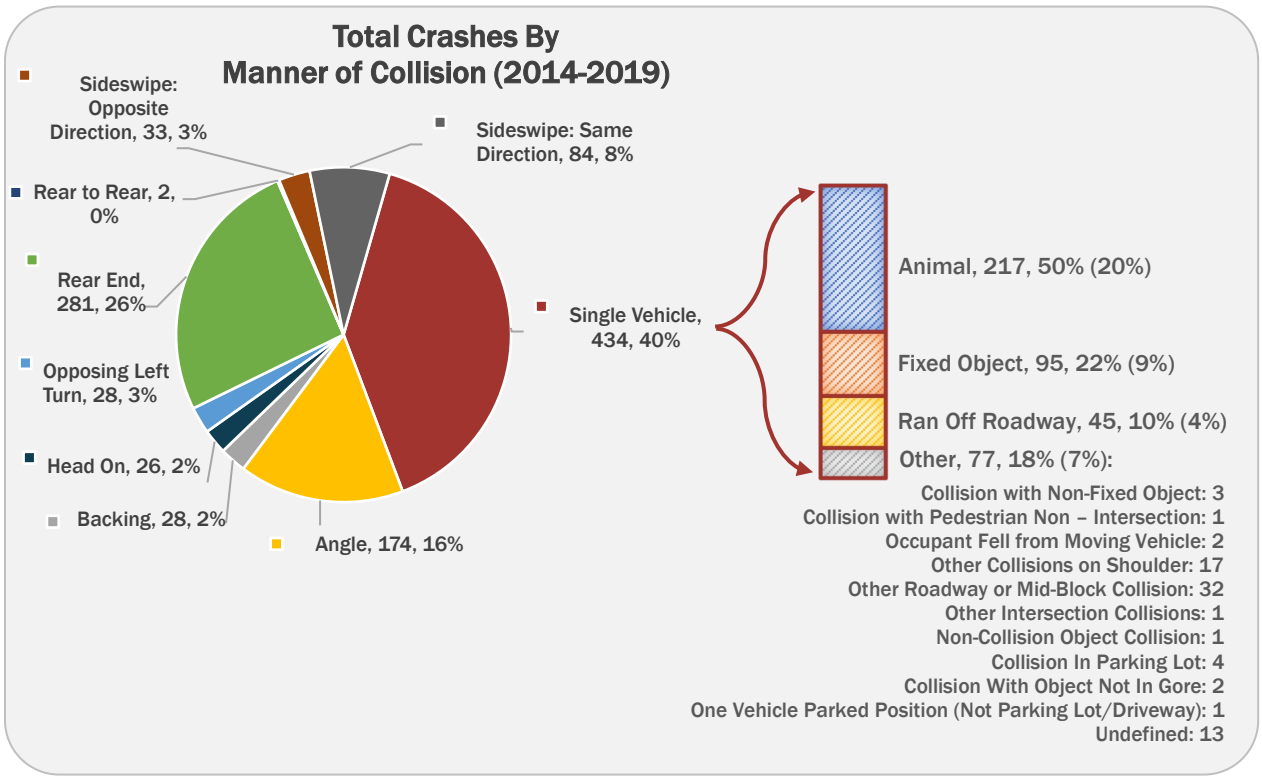
AA Highway Critical Rate Factors and Excess Expected Crashes by Roadway Spot (0.3 miles) (5 year, Nov 2014 - Oct 2019)													
Location			County	AADT	Lanes	Divided or Undivided	Rural or Urban	Crashes				Critical Rate Factor (CRF)	Adjusted EEC
Roadway	Begin Milepoint	End Milepoint						Fatal	Injury	PDO	Total		
KY 9	3.628	3.928	Pendleton	7,608	2	Undivided	Rural	0	2	7	9	1.06	1.7
KY 9	16.63	16.93	Bracken	7,159	3	Undivided	Rural	0	5	5	10	1.18	2.5
KY 9	10.259	10.559	Bracken	6,104	2	Undivided	Rural	0	5	8	13	1.77	4.2
KY 9	5.252	5.552	Bracken	6,180	2	Undivided	Rural	0	5	10	15	2.03	5.7
KY 9	16.968	17.268	Mason	5,910	4	Divided	Rural	0	1	3	4	1.30	1.9
KY 9	14.642	14.942	Mason	8,961	4	Divided	Rural	0	1	5	6	1.52	3.2
KY 9	12.394	12.694	Mason	8,961	4	Divided	Rural	0	3	7	10	1.76	6.1
KY 9	10.698	10.998	Mason	12,422	4	Undivided	Urban	1	7	17	25	1.16	9.3
KY 9	10.267	10.567	Mason	13,720	4	Undivided	Urban	0	10	56	66	2.85	47.9
KY 9	9.962	10.262	Mason	13,130	4	Divided	Urban	0	8	61	69	3.89	61.9
KY 9	9.569	9.869	Mason	13,130	4	Divided	Urban	0	5	22	27	1.52	20.4
KY 9	8.689	8.989	Mason	12,249	4	Divided	Urban	0	9	26	35	2.08	28.6
KY 9	7.479	7.779	Mason	10,355	4	Divided	Urban	0	6	36	42	2.83	36.0
KY 9	6.99	7.29	Mason	8,072	2	Undivided	Rural	0	1	8	9	1.02	1.3
KY 9	5.93	6.23	Mason	8,072	2	Undivided	Rural	0	2	7	9	1.02	1.3
KY 9	5.8	6.1	Mason	8,072	2	Undivided	Rural	0	2	10	12	1.36	3.2
KY 9	3.715	4.015	Mason	6,477	2	Undivided	Rural	1	5	6	12	1.58	3.5
KY 9	2.794	3.094	Mason	5,945	2	Undivided	Rural	0	4	4	8	1.11	1.5
KY 9	2.43	2.73	Mason	5,945	2	Undivided	Rural	0	0	8	8	1.11	1.5
KY 9	28.25	28.55	Lewis	4,909	2	Undivided	Rural	0	4	8	12	1.88	4.0
KY 9	11.062	11.362	Lewis	4,979	3	Undivided	Rural	0	3	5	8	1.20	2.2
KY 9	9.462	9.762	Lewis	5,022	3	Undivided	Rural	1	3	4	8	1.19	2.2
KY 9	8.001	8.301	Lewis	3,379	3	Undivided	Rural	1	4	5	10	1.90	4.0
KY 10	11.805	12.105	Lewis	2,561	2	Undivided	Rural	1	4	3	8	1.85	2.7
KY 10	8.196	8.496	Greenup	2,032	2	Undivided	Rural	0	4	4	8	2.11	3.3
KY 10	11.291	11.591	Greenup	2,860	3	Undivided	Rural	0	4	14	18	3.77	8.9

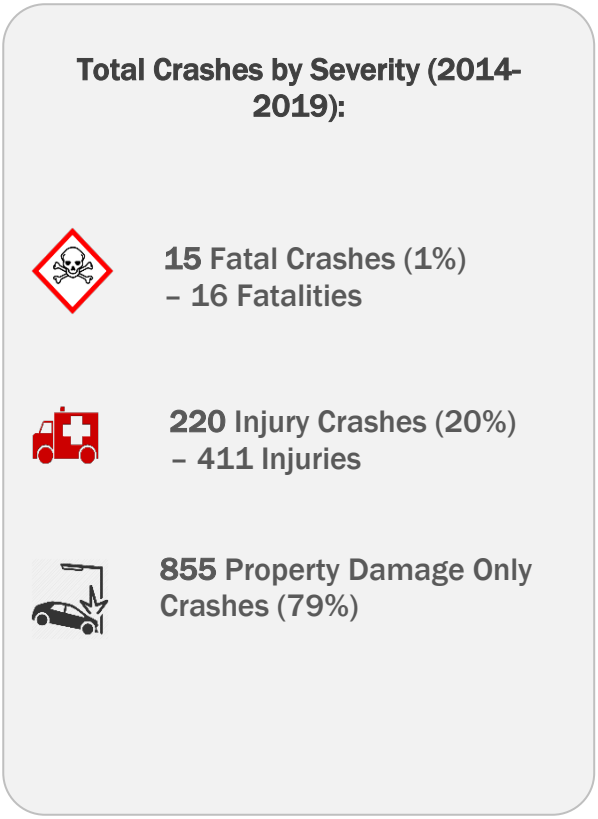
High-Level Crash Analysis

Aside from these two crash analysis methods, a high-level crash analysis was performed by analyzing the historical crash information provided by the KSP Collision Database and plotting all crashes along the corridor during the 5-year time period by their mile point and geographic coordinates. This involved analyzing statistics such as manner of collision, collision severity, daylight vs. dark conditions, weather conditions, directional analysis, and others in order to find trends or help determine what could be causing crashes along the corridor.

Overall, there were 1,090 crashes within the 5-year timeframe in the study area. Summary statistics are provided in **Figure 14**. An overview map of the crash distribution density is presented in **Figure 15**. A more in-depth list of all crashes can be found in **Appendix B.**

Figure 14. Crash Statistics Infographic





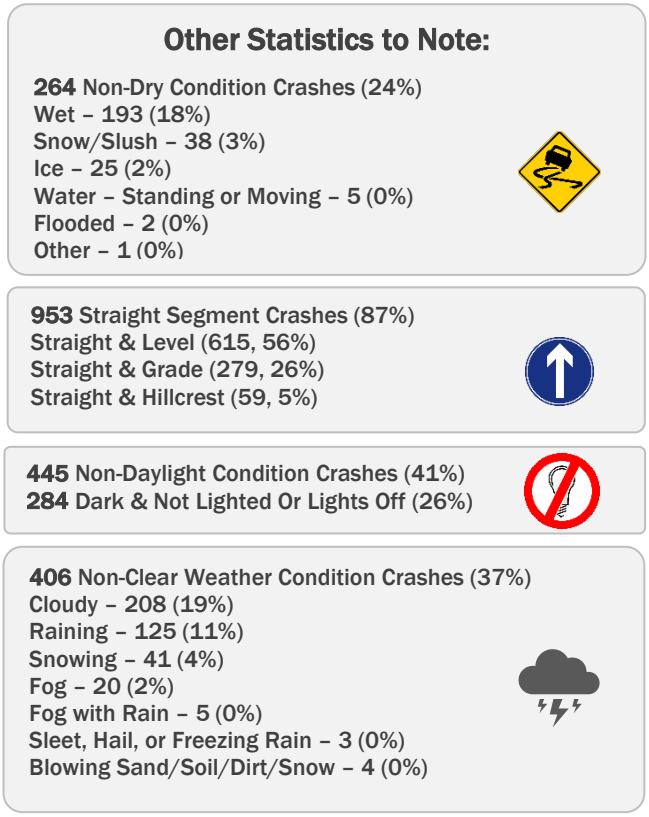
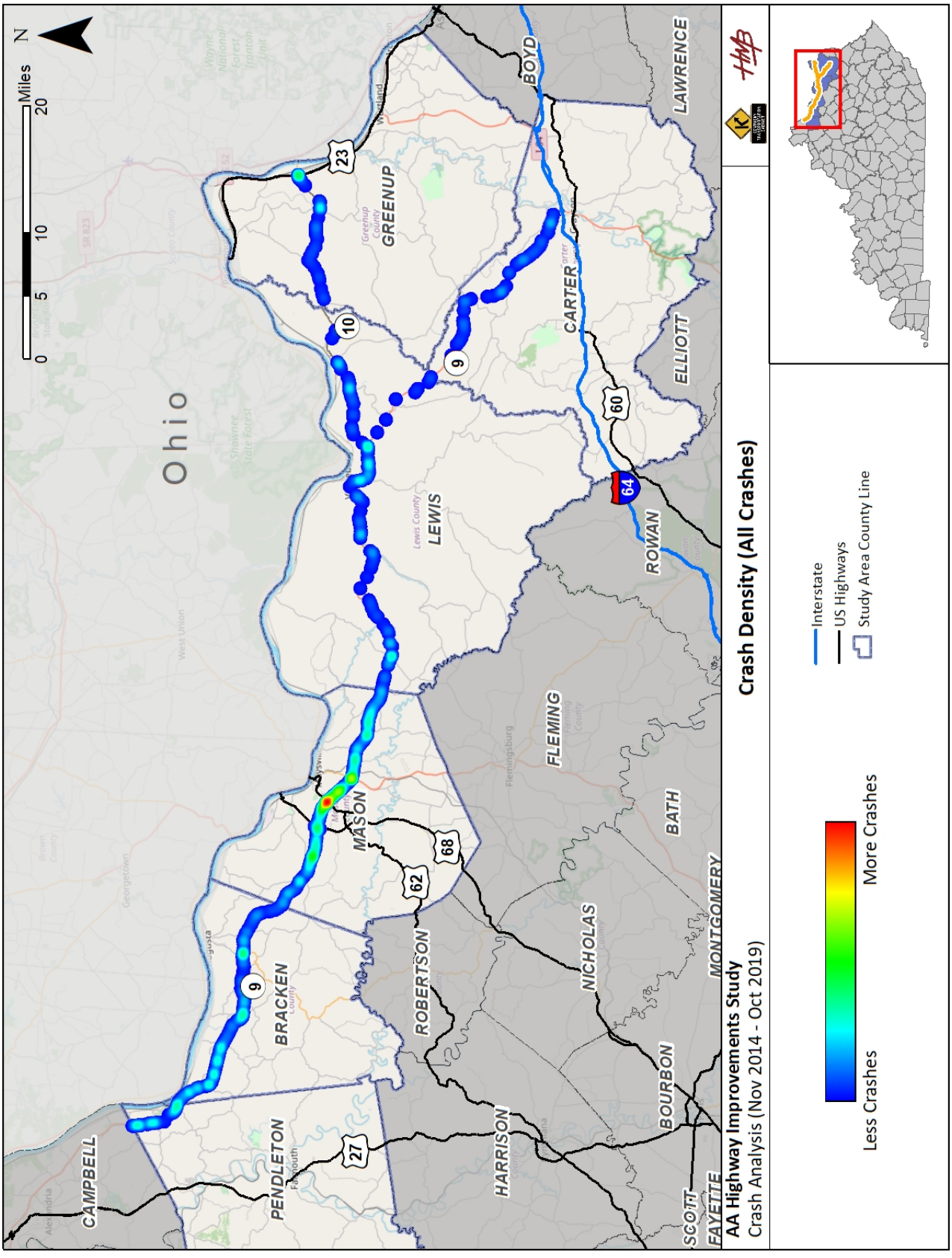


Figure 15. Crash Density (All Crashes)



CHAPTER 3

ENVIRONMENTAL OVERVIEW

Chapter 3 – Environmental Overview

An Environmental Overview was conducted to identify resources and potential issues for consideration during the development of improvement concepts. Natural and human environmental resources were identified from a literature/database review. Study area environmental resources are summarized in the following sections with supplemental mapping and resources included in **Appendix C**.

3.1 Natural Environment

The natural environment typically refers to all living and non-living things found to occur in nature. It includes aquatic ecology such as rivers, streams, and wetlands; threatened and endangered species; prime and unique farmland; and geotechnical resources.

Rivers and Streams

The Ohio River is the most notable water resource adjacent to the study area. The counties along the study corridor have approximately 102 miles of river front, with potential for commerce and recreation. Major watersheds broken down by county include:

- Two major watersheds are within Pendleton County: Twelvemile Creek and the Ohio River (near Foster).
- Four major watersheds are within Bracken County: the Ohio River (near Foster), Ohio River (near Augusta), Locust Creek, and Bracken Creek.
- Four major watersheds are within Mason County: Bracken Creek, Lee Creek, Ohio River (near Maysville), and the North Fork of Licking River.
- Five major watersheds are within Lewis County: North Fork of Licking River, Cabin Creek, Salt Lick Creek, Kinniconick Creek, and the Ohio River (near Quincy). Three major watersheds are within Greenup County: Schultz Creek, Tygarts Creek, and the Ohio River (near Oliver Station).
- Three major watersheds are within Carter County: Buffalo Creek, Tygarts Creek, and Everman Creek.

In addition to the Ohio River, there are fifty named creeks located within the study area. These are displayed on a series of maps by county in **Appendix C**.

Wetlands and Ponds

The National Wetlands Inventory (NWI) has documented fifty-two wetlands throughout the study area, with the majority being forty-seven palustrine wetlands (twelve acres), followed by four riverine wetlands (three acres), and one lacustrine wetland (one-half acre).

Groundwater

Approximately thirty-two water wells were identified, twenty-four of which are plugged and decommissioned, seven are active single-family domestic-use wells, and one is a decommissioned groundwater monitoring well. In addition, there are records for nine underground storage tank sites within the study area. Seven of these sites are still active, while the other two sites have been closed.

Floodplain/Floodway

Federal Emergency Management Agency (FEMA) 100-year floodplain exists primarily along the Ohio River that serves as the northern boundary of the study area. The majority of study area exists

in this floodplain except for the portion that is in Carter County. According to FEMA National Flood Hazard data, a designated floodway also is present along the Ohio River.

Prime Farmland

The Natural Resources Conservation Service (NRCS) soil survey shows 7,234 acres of prime farmland in Maysville and along the Ohio River northwest of US 68 and KY 8. Most areas south and west of Maysville and north of KY 9 are not considered prime farmland (approximately 16,159 acres). Farmland of statewide importance (10,105 acres) is south of KY 9. Farmland classification data are in **Appendix C**.

Protected Species

No critical habitats were identified through the US Fish and Wildlife Service Threatened and Endangered Species Active Critical Habitat database search.

3.2 Human Environment

The human environment typically refers to the built environment or the communities where we live. It includes elements such as land use, community features, historic districts and properties, and hazardous materials considerations.

Land Use

The land adjacent to the AA Highway within the study area is primary rural agricultural and residential. There is a section of commercial development in the incorporated area of Maysville along with pockets of additional commercial land use at Vanceburg and Grayson. Individual business such as gas stations, auto dealers and repair, storage, restaurant, and dollar stores are interspersed throughout the corridor.

Community Features

Several community features are located along the AA Highway or directly accessed by this route. These include:

- WM. R Shugars, Sr. Commerce Park
- Meadowview Regional Medical Center
- Orangeburg Fire Department
- Orangeburg Community Center
- Lewis County High School
- Lewis County Middle School
- Mason County Landfill

There are also several "Park and Pool" per KYTC District 6 or "Park and Ride" lots per KYTC District 9 for vehicles to use for temporary parking. One is in Bracken County near the intersection of KY 9 and KY 19 (Augusta Chatham Road) at MP 5.546. Another is located across from the Orangeburg Fire Department / Community Center in Mason County along KY 1449 (Orangeburg Road) near the intersection with KY 9 at MP 3.781.

Carter Caves State Resort Park is located in between the AA Highway and I-64, just east of Wesleyville on KY 182. Visitors from the northeast and northwest may travel on the AA Highway before turning at KY 1149.



Orangeburg Community Center



Park and Pool Example in Bracken County



Walcott / White Covered Bridge

Historic Districts and Properties

Much of the adjacent land use along the AA Highway in the study area is undeveloped, commercial, or residential. There
are few properties / structures that are of historical significance. Nearby properties noted during the review
includes:

- Walcott / White Covered Bridge
- Immaculate Conception Catholic Church and Cemetery
- Washington Historic District
- Bennets Mill Covered Bridge
- Woodlawn Building

3.3 Socioeconomic Study

The AA Highway – KY 9 / KY 10 Socioeconomic Study was completed by the Buffalo Trace Area Development District (BTADD). The intent of the review at this stage is to assist the Project Team and subsequent users of the study in making informed and prudent transportation decisions in the study area with regard to the requirements of Executive Order 12898: Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations (signed February 11, 1994). Statistics are provided on minority, low-income, elderly, disabled, and limited English proficiency populations. Data was obtained from the 2013-2017 American Community Survey (ACS) statistics. Due to the size of the study area which encompasses six counties, the state numbers were selected as the reference threshold. The state numbers most likely provide a better snapshot of the overall population characteristics in the study area as opposed to the United States or county percentages. **Table 6** provides a summary of the data by population group, identifying the number of Block Groups higher than the state threshold. The full report completed by the BTADD is included in **Appendix D**.

Table 6. Summary of Socioeconomic Data

Population Group	No. of Block Groups Higher than State Threshold
Racial Minority Population	0
Population by Persons Age 65 and Older	19
Population by Persons below Poverty Level	14
Population by Disability Status	15
Population with Limited English Proficiency Age 18 Years and Older	2

CHAPTER 4

INITIAL ENGAGEMENT EFFORTS

Chapter 4 – Initial Engagement Efforts

During the course of the study, multiple collaborative meetings were held. These include three meetings with the Project Team which consisted of KYTC Districts 6 and 9, KYTC Central Office staff from various disciplines, NKADD, BTADD, FIVCO, KYOVA, and consultant personnel. The meetings with the Project Team were conducted to discuss study progress and next steps. The meetings with local officials / stakeholders (LO/S) was an opportunity to share study information and gather input from various perspectives on identifying areas of concern, developing potential improvements, and providing input on prioritization. The initial meetings with the Project Team and LO/S provided an opportunity to review objectives and goals of the study, present and discuss the existing conditions information, and collect initial input for the improvement concept development process.

4.1 Project Team Meeting No.1

The first Project Team meeting was held on Tuesday, January 14, 2020 at the Buffalo Trace ADD office in Maysville. Representatives included KYTC Divisions of Planning and Highway Design staff, KYTC District 6 and 9 staff, BTADD staff, and the consultant team. Study background information including the study area, objective and goals, tasks, and schedule were shared with the attendees. The meeting also included a review of collected existing conditions information such as typical sections, traffic conditions, freight network and major industries, crash analysis, committed and identified projects, and field review notes. Key action items included discussion of the improvement concept process and preparation for the first local official / stakeholder meeting outreach and materials. For additional detail regarding information presented and discussed at the meeting, refer to the meeting minutes found in **Appendix E**.

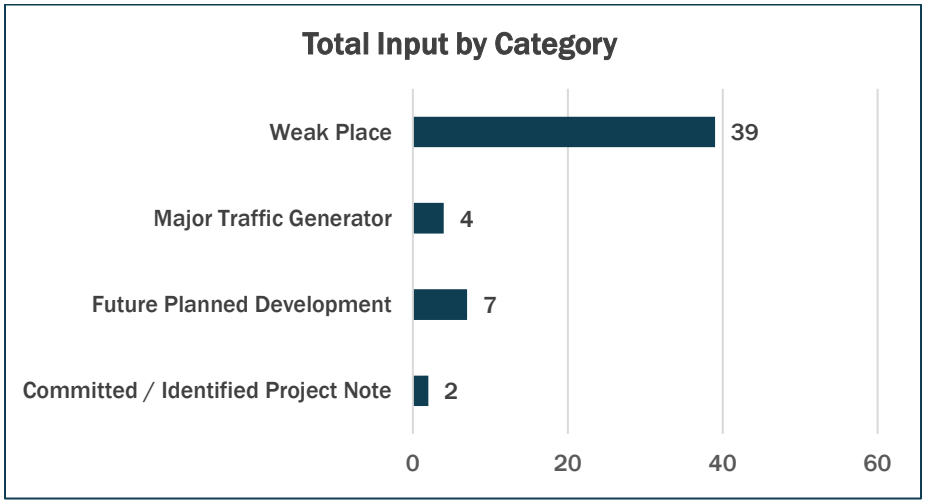
4.2 Local Officials / Stakeholder Meeting No. 1

Local officials / stakeholders (LO/S) meetings were held to provide a more targeted approach to help inform the process and encourage participation. Due to the size of this study encompassing six counties, two meetings were held with the same content. One targeted the FIVCO Area Development District portion of the study area which included Greenup and Carter Counties. It was held on Monday, February 17, 2020 at the FIVCO office in Grayson, Kentucky. The other meeting targeted the NKADD and BTADD portion of the study area (Pendleton, Bracken, Mason, and Lewis Counties). It was held on Tuesday February 18, 2020 at the BTADD office in Maysville, Kentucky. The attendee list was prepared by NKADD, BTADD and FIVCO with input from KYTC and the consultant. Attendees included representatives from various local jurisdictions (mayors, magistrates, County Judge-Executives, etc.), local fire departments, local police departments, EMS, local schools, and the nearby state park (Carter Caves State Park). A presentation was given by the consultant that provided information on the study background and existing conditions. A group exercise was conducted by Project Team members with meeting attendees to gain input via a web mapping application on the following:

- Comments on Committed and Identified Projects
- Locations of Major Traffic Generators and Future Planned Development
- Location of Strong Places (Locations or Transportation Elements that Work Well)
- Location of Weak Places (Locations or Transportation Elements that Need Improvement)

Figure 16 shows the breakdown of comments by these categories. No Strong Places were identified by participants.

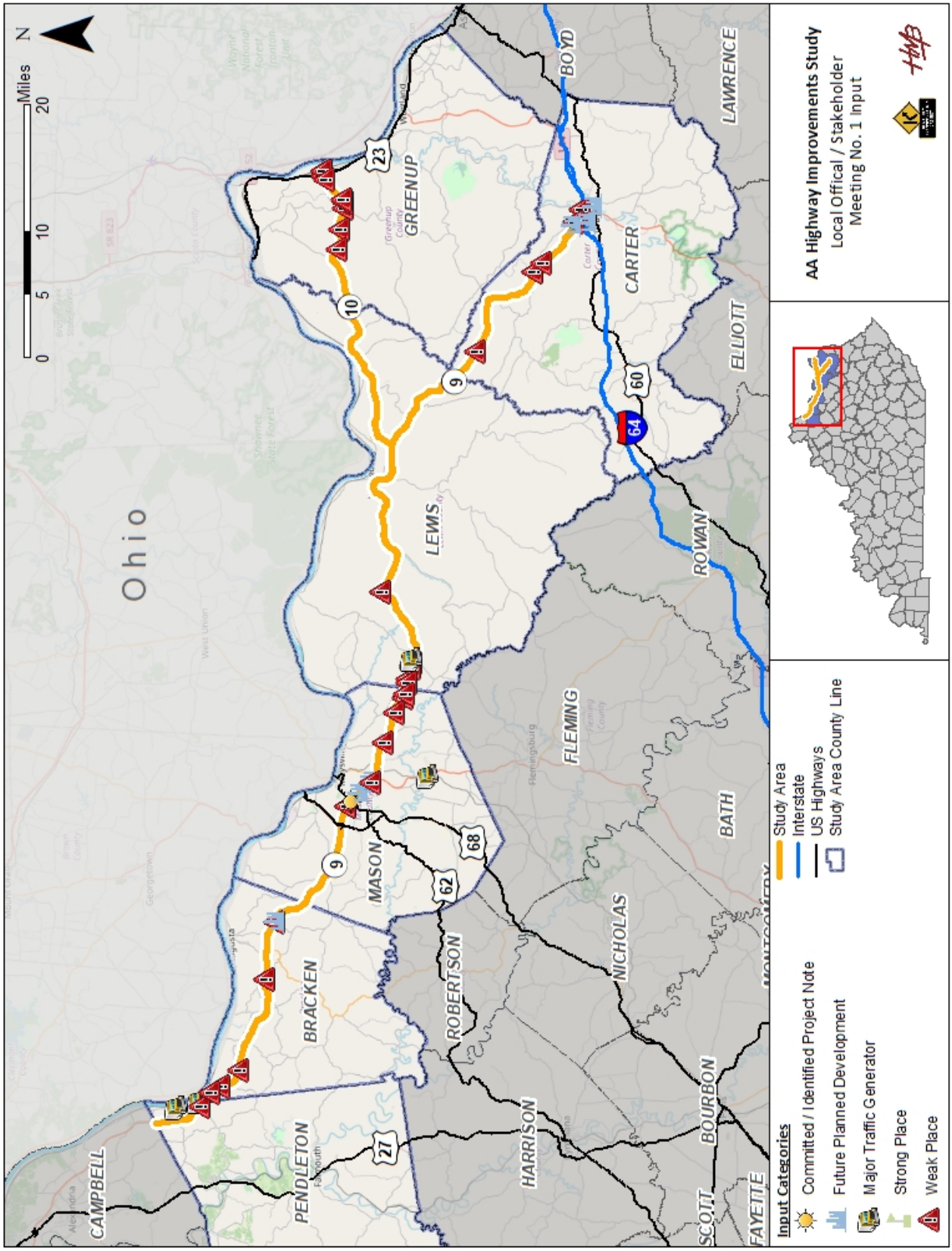
Figure 16. LO/S Meeting No. 1 Summary of Input by Category



Figures 17 shows the placement of the comment markers for Committed and Identified Projects, Major Traffic Generators, Future Planned Development, and Weak Places.

A full summary of the meetings and the input is included in **Appendix E**.

Figure 17. Local Official / Stakeholder Meeting No. 1 Input



CHAPTER 5

IMPROVEMENT CONCEPT DEVELOPMENT AND ANALYSIS

Chapter 5 – Improvement Concept Development and Analysis

In this chapter, the process is summarized for the identification of where improvements may be beneficial along with the development of improvement concepts for the identified locations. The existing conditions analysis and coordination with local officials and stakeholders informed and guided the development and evaluation of improvement locations and concepts.

5.1 Identification of Initial Improvement Locations

Each high crash location (CRF greater than 1.0) and location identified as a concern by the local officials / stakeholders (weak place) was examined to determine if improvements were appropriate. Information was compiled for each location including:

- 2020 AADT
- Truck %
- Speed Limit
- Number of Lanes
- Lane Width
- Shoulder Width
- Existing Lighting
- Median Width
- Presence of Auxiliary Lanes
- Crash Rate (CRF)
- Existing CHAF
- Number of Local Officials / Stakeholder Responses
- Any Geometric Issues present

Additionally, if a project had previously been identified in a CHAF, SUA, HSIP, Preventative Maintenance, or Highway Plan, but did not have a high crash rate or was not identified by the local officials / stakeholders, it was still included in the initial list of locations in order to determine if there is still a need for the project.

Table 7 and **Figure 18** provides a summary of spot or intersection locations initially identified through this process. **Table 8** provides a summary of segment or corridor locations initially identified through this process. Additional detail for all locations can be found in **Appendix F**.

Reconstruction or widening sections or the entirety of the AA Highway was not included as a corridor need. Through the technical analysis and discussions with the local officials / stakeholders, it was determined that capacity is not an issue with operations in the study area. Local officials / stakeholders expressed a desire for spot improvements, particularly turn lanes. Reconstruction or widening was not identified as a priority. Therefore, this study focuses on spot improvements and other treatments that may be applied corridor-wide to address identified issues.

Table 7. Summary List of Initial Spot / Intersection Improvement Locations

Location					High Crash Location?			Identified or Committed Project?					LO/S Input		Geometric Issue?	
								Unsponsored Identified		Sponsored Identified / Committed Project						
#	Route	County	Intersecting Route	Milepoints	Yes/No	CRF	Fatalities	CHAF	Description	CHAF / ID No.	Description	2020 Score	# Responses	Comment	Yes/No	Type
1	KY 9	Pendleton	Short Ivor Rd	3.628 - 3.928	Yes	1.06	-	-	-	-	-	-	0	-	No	-
2	KY 9	Pendleton	KY 159 - New Hope Rd	0.296	No	0.91	-	IP20080380	Improve Intersection	-	-	-	2	Transition Issue of Passing Lane	No	-
3	KY 9	Bracken	Iler Rd	19.804	No	0.83	-	IP20190008	Improve Intersection	IP20070207	Widen to 4-Lane Divided	26.4	2	Major Traffic Generator; Add Turn Lanes	No	-
4	KY9	Bracken	Foster Rd	18.809	No	-	-	-	-	IP20070207	Widen to 4-Lane Divided	26.4	1	Need Turn Lanes	No	-
5	KY 9	Bracken	Kennon Rd	18.335 - 18.635	No	0.98	-	-	-	IP20070207	Widen to 4-Lane Divided	26.4	0	-	No	-
6	KY 9	Bracken	Holts Creek Rd	17.612 - 17.912	No	0.94	-	-	-	IP20070207	Widen to 4-Lane Divided	26.4	1	Need Turn Lanes	No	-
7	KY 9	Bracken	KY 1019 - Lenoxsburg Foster Rd	16.856	Yes	1.18	-	-	-	IP20070207	Widen to 4-Lane Divided	26.4	0	-	No	-
8	KY 9	Bracken	N/A	15.850 - 16.150	No	0.98	-	-	-	IP20070207	Widen to 4-Lane Divided	26.4	0	-	No	-
9	KY 9	Bracken	Eden Ridge Rd	15.687	No	-	-	-	-	IP20070207	Widen to 4-Lane Divided	26.4	1	Need Turn Lanes	No	-
10	KY 9	Bracken	KY 1159	10.259 - 10.559	Yes	1.77	-	-	-	IP20080277	Widen to 4-Lane Divided	24.0	0	-	No	-
11	KY 9	Bracken	KY 875 - Mt. Zion Rd	7.751	No	-	-	IP20150014	Improve Intersection	IP20080277	Widen to 4-Lane Divided	24.0	2	Turn Lanes; Tight Radii	No	-
12	KY 9	Bracken	KY 19 - Augusta Chatham Rd	5.546	Yes	2.03	-	-	-	IP20080277 / IP20080553	Widen to 4-Lane Divided	24.0 / 29.5	0	-	No	-
13	KY 9	Bracken	Hook Ln	2.831	No	-	-	-	-	IP20080553	Widen to 4-Lane Divided	29.5	1	Turning Traffic with Trailers	No	-
14	KY 9	Mason	KY 435	17.049	Yes	1.30	-	-	-	-	-	-	0	-	No	-
15	KY 9	Mason	Slack Pike	14.642 - 14.942	Yes	1.52	-	-	-	-	-	-	0	-	No	-
16	KY 9	Mason	Downing Dr.	12.620	Yes	1.76	-	-	-	-	-	-	0	-	No	-
17	KY 9	Mason	Kenton Station Dr	10.861	Yes	1.16	1 - Angle	-	-	IP20160298	Construct Right Turn Lane	31.8	3	Add Right Turn Lane to Hospital	No	-
18	KY 9	Mason	US 62	10.180 - 10.567	Yes	2.85 - 3.89	-	-	-	IP20170079	Improve Intersection	75.6	0	-	No	-
19	KY 9	Mason	Market Square Dr, Tucker Dr, Walmart Way Entrances	9.250 - 10.000	Yes	0.90 - 1.52	-	Maysville SUA ID T	Improve Intersection	-	-	-	1	Future Planned Development	No	-
20	KY 9	Mason	KY 1448 - Maple Leaf Rd	8.969	Yes	2.08	-	-	-	-	-	-	0	-	No	-
21	KY 9	Mason	KY 11	7.560	Yes	2.83	-	IP20110092 / IP20060255	Widening, access control, overhead lighting.	IP20160183 / IP20190115	Widen to 4-Lane Divided	50.4 / 50.4	0	-	No	-
22	KY 9	Mason	Strodes Run Pike	6.990 - 7.425	Yes	1.02	-	Maysville SUA ID L / IP20110092 / IP20060255	Improve transition. Widening, access control, overhead lighting.	IP20160183 / IP20190115	Widen to 4-Lane Divided	50.4 / 50.4	0	-	No	-

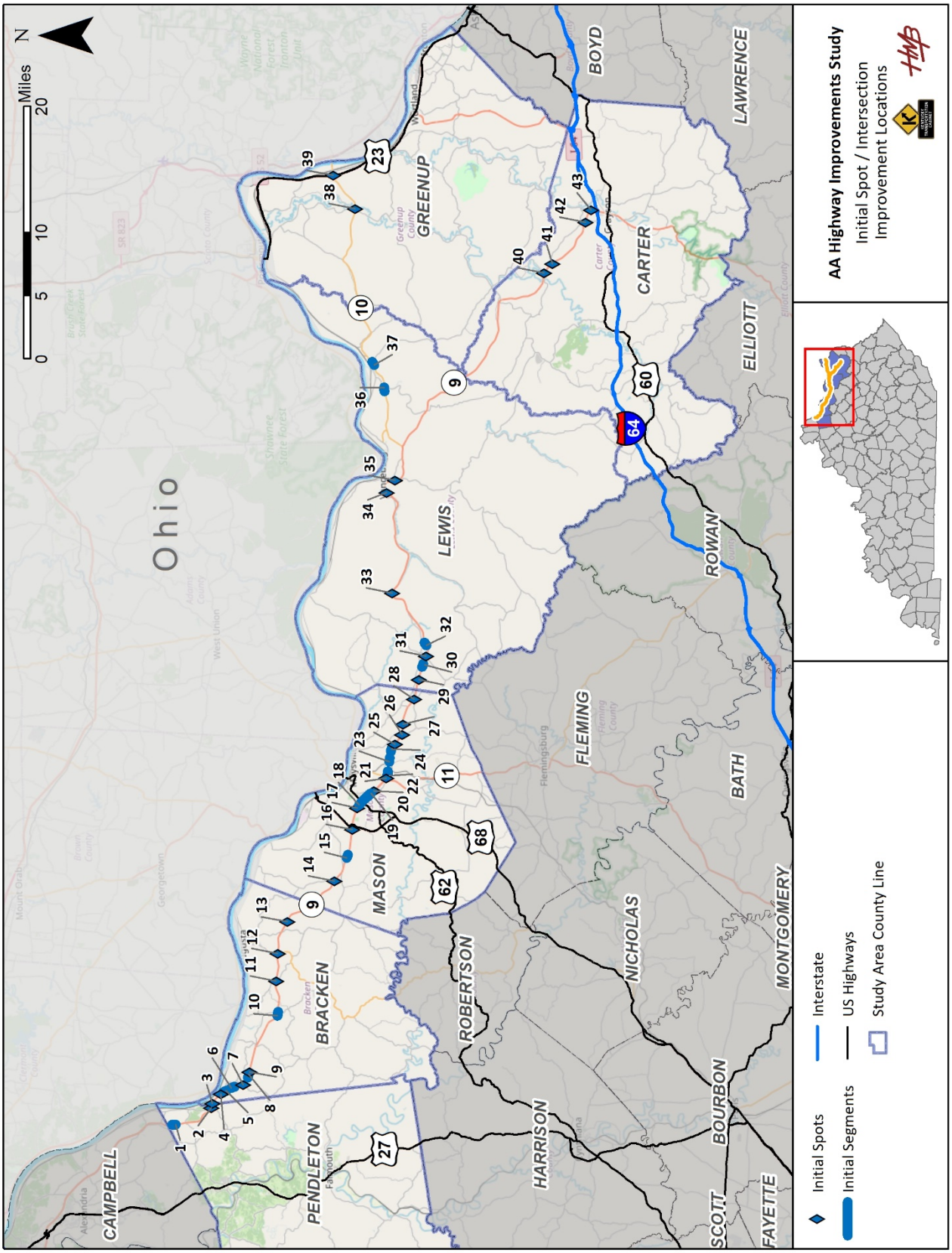
Table 7. Summary List of Initial Spot / Intersection Improvement Locations (cont.)

Location					High Crash Location?			Identified or Committed Project?					LO/S Input		Geometric Issue?	
								Unsponsored Identified		Sponsored Identified / Committed Project						
#	Route	County	Intersecting Route	Milepoints	Yes/No	CRF	Fatalities	CHAF	Description	CHAF / ID No.	Description	2020 Score	# Responses	Comment	Yes/No	Type
23	KY 9	Mason	Knoweshaw Rd	5.900 - 6.230	Yes	1.02 - 1.36	-	IP20110092 / IP20060255	Widening, access control, overhead lighting.	IP20160183 / IP20190115	Widen to 4-Lane Divided	50.4 / 50.4	0	-	No	-
24	KY 9	Mason	N/A Farm Entrance	5.200 - 5.400	No	0.80	-	IP20110092 / IP20060255	Widening, access control, overhead lighting.	IP20160183 / IP20190115	Widen to 4-Lane Divided	50.4 / 50.4	0	-	No	-
25	KY 9	Mason	Clarkson Sherman Rd	4.740	No	-	-	IP20060255 / IP20110093	Widening, access control, overhead lighting.	IP20150186	Construct Right Turn Lane	40.0	1	Turn Lanes for Landfill Access	No	-
26	KY 9	Mason	KY 1449 - Orangeburg Rd	3.781	Yes	1.58	1-Rear End	IP20060255 / IP20110093	Widening, access control, overhead lighting.	IP20160183	Widen to 4-Lane Divided	50.4	0	-	No	-
27	KY 9	Mason	Marathon/Vaughn Ln	2.960	Yes	1.11	-	IP20060255 / IP20110093	Widening, access control, overhead lighting.	-	-	-	1	Re-Paint Lane Lines / Edge Lines	No	-
28	KY 9	Mason	KY 1234	0.742	No	-	-	IP20060255 / IP20110093	Widening, access control, overhead lighting.	-	-	-	2	Turn Lane; Road Width	No	-
29	KY 9	Lewis	Garrard Rd	30.360	No	0.78	-	-	-	-	-	-	2	No Passing Zone Needed	No	-
30	KY 9	Lewis	N/A	29.014 - 29.314	No	0.78	-	-	-	-	-	-	2	Pavement Issue - Pavement Markers, Crack Sealing	No	-
31	KY 9	Lewis	KY 57	28.380	Yes	1.88	-	-	-	9-8807.00	Reconstruct KY 57	-	0	-	No	-
32	KY 9	Lewis	Simmons Rd	27.175 - 27.475	No	0.95	-	-	-	-	-	-	0	-	No	-
33	KY 9	Lewis	N/A	22.100	No	-	-	-	-	9-20010.00	Address Pavement Condition		2	Short Passing Lane	No	-
34	KY 9	Lewis	KY 3311	14.183 - 14.483	No	-	-	-	-	-	-	-	0	-	No	-
35	KY 9	Lewis	KY 2523 - Lions Ln	12.749	No	-	-	-	-	-	-	-	0	-	No	-
36	KY 9	Lewis	KY 59 / Fairlane Dr	11.205	Yes	1.20	-	IP20110103	Reconstruct KY 9 - turn lanes, lighting, sight distance, reduce speed limit.	-	-	-	0	-	Yes	Hor. Curve (10.812-11.133)
37	KY 10	Lewis	KY 1306 - Kinney Rd	11.805 - 12.105	Yes	1.85	1 - Fixed Object	-	-	-	-	-	0	-	No	-
38	KY 10	Greenup	KY 7	8.289	Yes	2.11	-	-	-	-	-	-	1	Existing Overhead Caution Lights but a Lot of Crashes; Add Lighting	No	-
39	KY 10	Greenup	US 23	11.582	Yes	3.77	-	-	-	-	-	-	1	Fog; Need Alert for Signal	No	-
40	KY 9	Carter	KY 7 (North)	6.498	No	-	-	IP20080528	Widening	-	-	-	2	Sight Distance Issue; Passing Zone; Steep Grade; No Turn Lanes	No	-
41	KY 9	Carter	KY 7 (South)	5.486	No	-	-	IP20080528	Widening	-	-	-	1	Transition Issue	No	-
42	KY 9	Carter	KY 1959	1.078	No	-	-	IP20080528 / IP20080529	Widening / Improve Intersection	-	-	-	1	Transition Issue; No Lighting; No Caution Lights	No	-
43	KY 9	Carter	KY 1	0.000	No	-	-	IP20080528	Widening	-	-	-	1	Right Lane Drops; Truck Issues	No	-

Table 8. Summary List of Initial Segment / Corridor Improvements

Location					High Crash Location?		LO/S Input		Geometric Issue?		Additional Comments
#	Route	County	Intersecting Route	Milepoints	Yes/No	CRF	# Responses	Comment	Yes/No	Type	Description
1	KY 9	Mason	Downing Dr. to Parker Rd. Walmart Way entrance to KY 11.	7.560 -9.179 & 10.545 - 12.620	Yes	1.16-2.85	1	Reduce speed limit.	-	-	Reduce existing 55 mph speed limit to 45 mph along KY 9 between KY 11 and Downing Dr. Increase law enforcement or add traffic calming measures such as "Your Speed" signs, transverse rumble strips and painted warnings, speed tables, etc.
2	KY 9 / KY 10	All Counties	-	-	Yes	0.98 - 1.02	-	-	-	-	Evaluate existing truck climbing lane locations to determine if modifications are recommended; determine if additional truck climbing lanes are needed.
3	KY 9 / KY 10	All Counties	-	-	-	-	3	Pavement issue - center rutting issue - related to pavement markers. Throughout corridor; crack sealing covers pavement stripes causing safety issue especially at night.	-	-	Identify and Prioritize Preventative Maintenance Funds for portions of AA Highway that have not been recently repaved.
4	KY 10	Lewis / Greenup	Howland Hill Rd, Blackbird Rd, Tygart's Creek Rd, E. Tygart's Creek Rd, Graysbranch Rd	6.800 (KY 9/10 Split) - 11.600 (US 23)	-	-	5	Delineator posts - reflectors on posts to mark where side roads approach AA	-	-	Intersection awareness; signage, striping, and identification of side streets.
5	N/A	Carter	-	-	-	-	1	Directional navigation uses local streets rather than higher functional class routes.	-	-	Evaluate routes and functional classifications for roadways connecting from AA Highway to Carter Caves State Resort Park. Route vehicles in GPS.
6	KY 9	Pendleton / Bracken / Mason	-	-	-	-	1	Lack of vehicle enforcement - truck traffic enforcement through whole corridor.	-	-	Add speed reduction measures to lower the 85th percentile speed closer to 55 and 45 mph speed limits.
7	KY 9	Lewis	-	9.553 - 11.133	Yes	1.19	-	-	Yes	Horizontal curve radii do not meet the design speed based on the existing superelevations as identified in the as-built plans. Three identified locations have ran-off roadway crashes that could potentially be mitigated by improvements.	Mitigate crashes relating to deficient horizontal curves.

Figure 18. Initial Spot / Intersection Improvement Locations



5.2 Analysis of Initial Improvement Locations

With a comprehensive initial list of possible improvement locations, the next step was to refine the list to the most feasible concepts. To do so, additional information was determined beneficial to help with decision making. This included the following:

Additional Review of Crash Data

One activity included reviewing crashes that had occurred in the recently constructed four-lane section of the AA Highway in Mason County from approximately MP 12.7 to MP 17.2. The purpose was to identify when the crashes happened and label them accordingly to pre-construction, during construction, and post-construction. Evaluation of the crashes post-construction (September 2017 through October 2019) found one intersection to have an interpolated CRF of over 1.0. This is the intersection of KY 9 at KY 435 at MP 17.049. Therefore, this location was included in the refined list of projects for additional analysis. At the intersection of KY 9 at Slack Pike (MP 14.642 – 14.942), most of the post-construction crashes were in the parking lot based on detailed crash records. Therefore, this location was removed from further consideration.

Detailed crash records were requested for all fatal crashes and locations where the crash types warranted further investigation to help understand contributing causes. The locations include:

- KY 9 / KY 435 (Mason County)
- KY 9 / Slack Pike (Mason County)
- KY 9 / Maple Leaf Road (Mason County)
- KY 9 / KY 57 (Lewis County)
- KY 9 / KY 59 (Lewis County)
- KY 10 / KY 1306 (Lewis County)
- KY 10 / KY 7 (Greenup County)

With this additional information, improvement concepts were developed to address the needs as well as determine whether further improvements were warranted.

Intersection Turning Movement Counts

Peak period (AM / PM) turning movement counts were conducted at locations where turn lanes / capacity changes were being considered. **Table 9** displays information about the counts and **Figure 19** displays the count location. Counts were conducted for the peak hours only (7:00-9:00 AM and 3:00-6:00 PM) except for Clarkson Sherman Road due to the alternative peak hour of the operation of the landfill (6:45-9:00 AM and 2:30-4:30 PM). All counts were conducted prior to shelter-in-place orders resulting from the COVID-19 pandemic except for the intersections of KY 9/ Clarkson Sherman Road and KY 9 / KY 59. At the KY 9 / Clarkson Sherman Road intersection, the focus of the data collection was to determine the amount of truck traffic turning into the nearby landfill. Based on historical knowledge of the intersection, it was observed by KYTC that the volumes were lower than expected and the peak hour may have not been captured. Therefore, a re-count was determined to be needed in the future. The KY 9 / KY 59 intersection was to be counted by KYTC District 9 the week after the shelter-in-place orders and therefore was not able to be counted. However, the intersection was counted in 2015 for a previous study, and KYTC agreed these volumes could be used in lieu of a more recent count given the circumstances.

Each intersection where turning movement counts were collected was analyzed to determine whether it met the warrants for a left or right turn lane based on the turn lane warrant tool provided by KYTC. This tool generates a result for whether turn lanes are warranted and is based on the methods detailed in the Auxiliary Turn Lane policy outlined in the KYTC Highway Design Manual. A summary of the turn lane analyses is presented in **Table 10.**

Table 9. Intersection Turning Movement Locations

Route	County	Mile Point	Intersecting Road	Date of Count
KY 9	Bracken	19.805	Iler Road	Tuesday, March 3, 2020
KY 9	Bracken	17.878	Holts Creek Road	Tuesday, March 3, 2020
KY 9	Bracken	15.687	Eden Ridge Road	Wednesday, March 4, 2020
KY 9	Bracken	7.751	Mt. Zion Road	Wednesday, March 4, 2020
KY 9	Mason	12.620	Downing Drive	Tuesday, March 10, 2020
KY 9	Mason	10.860	Kenton Station Drive	Tuesday, March 10, 2020
KY 9	Mason	10.256	US 62	Tuesday, March 10, 2020
KY 9	Mason	9.992	Market Square Drive	Tuesday, March 10, 2020
KY 9	Mason	9.610	Tucker Drive	Tuesday, March 10, 2020
KY 9	Mason	9.435	Walmart Way Entrance No. 1	Tuesday, March 10, 2020
KY 9	Mason	9.274	Walmart Way Entrance No. 2	Tuesday, March 10, 2020
KY 9	Mason	7.560	KY 11	Thursday, March 5, 2020
KY 9	Mason	4.740	Clarkson Sherman Road	Monday, March 16, 2020
KY 9	Lewis	11.205	KY 59 / Fairlane Drive	2015 – Planning Study
KY 9	Carter	6.498	KY 7 (North)	Thursday, March 12, 2020
KY 9	Carter	5.486	KY 7 (South)	Thursday, March 12, 2020
KY 9	Carter	1.078	KY 1959	Tuesday, March 10, 2020

Table 10. Summary of Turn Lane Warrant Analyses

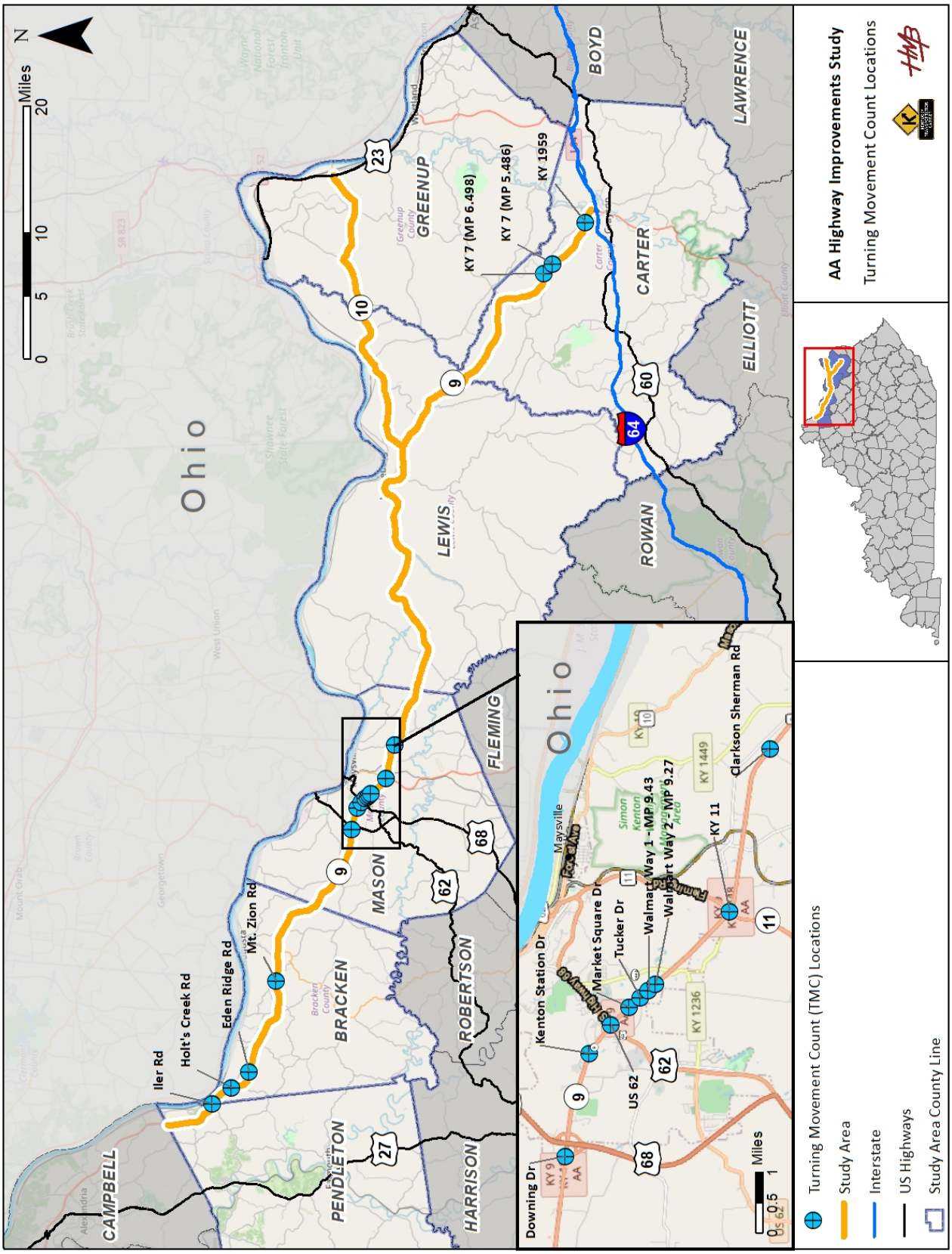
	Intersection Turn Lane Warrant Results																													
	Iler Rd.		Holts Creek Rd		Eden Ridge Rd		KY 875 (Mt. Zion Road)		Downing D.r / US 68 Ramp		Kenton Station Dr.		US 62		Market Square Dr.		Tucker Dr./Saw mill Pike		Walmart Way (Entrance 1 - MP 9.430)		Walmart Way (Entrance 2 - MP 9.270)		KY 11		KY 59 (Fairlane Dr.)		KY 7 (MP 6.498)		KY 7 (MP 5.486)		KY 1959	
	Year																													
Turning Movement	2020	2045	2020	2045	2020	2045	2020	2045	2020	2045	2020	2045	2020	2045	2020	2045	2020	2045	2020	2045	2020	2045	2020	2045	2020	2045	2020	2045	2020	2045	2020	2045
Eastbound Left	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	-	-	NO	NO	-	-	-	-	YES	YES	NO	YES	-	-	NO	NO	NO	NO
Eastbound Right	-	-	NO	NO	NO	NO	NO	NO	NO	NO	-	-	NO	NO	YES	YES	NO	NO	YES	YES	NO	NO	YES	YES	NO	NO	NO	NO	-	-	NO	NO
Westbound Left	-	-	NO	NO	NO	NO	NO	NO	NO	NO	-	-	YES	YES	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	NO	NO	NO	NO	-	-	NO	NO
Westbound Right	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	-	-	NO	NO	-	-	-	-	YES	YES	NO	NO	-	-	NO	NO	NO	NO
Southbound Left	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	-	-	NO	NO	-	-	-	-	YES	YES	NO	NO	-	-	NO	NO	NO	NO
Southbound Right	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	-	-	NO	NO	-	-	-	-	NO	NO	NO	NO	-	-	NO	NO	NO	NO
Northbound Left	-	-	NO	NO	NO	NO	NO	NO	NO	YES	-	-	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	NO	NO	NO	NO	-	-	NO	NO
NoRthbound Right	-	-	NO	NO	NO	NO	NO	NO	NO	NO	-	-	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	-	-	NO	NO

Upon examination of the results, no turn lanes were warranted based on the peak hour volumes at the following intersections:

- KY 9 / Holts Creek Road
- KY 9 / Eden Ridge Road
- KY 9 / KY 875
- KY 9 / KY 7 (North, MP 6.498)
- KY 9 / KY 7 (South, MP 5.486)
- KY 9 / KY 1959

Without additional crash history or other contributing factors, the intersections of KY 9 with Holts Creek Road and Eden Ridge Road were removed from further consideration. The remaining four intersections are reviewed in further detail beginning in Section 5.3.

Figure 19. Turning Movement Count Locations



Existing Signal Timing

To help with intersection evaluation / operations, existing signal timing plans were obtained from KYTC for signalized intersections where improvements were being considered. These intersections are presented in **Table 11**.

Table 11. Existing Signal Timing Review

Route	County	Mile Point	Intersecting Road
KY 9	Mason	12.620	Downing Drive
KY 9	Mason	10.860	Kenton Station Drive
KY 9	Mason	10.256	US 62
KY 9	Mason	9.992	Market Square Drive
KY 9	Mason	9.610	Tucker Drive
KY 9	Mason	9.435	Walmart Way Entrance No. 1
KY 9	Mason	7.560	KY 11
KY 9	Lewis	11.205	KY 59 / Fairlane Drive

Consolidation of Similar Projects

A last step in the refinement process was to evaluate locations that had a crash rate on the threshold (either at or below 1.00 CRF) or were of similar nature and combine them to form one project. Locations that were taken off the list of individual projects and consolidated include the following:

Evaluate Existing Truck Climbing Lane Locations to Determine if Modifications / Additional Lanes are Needed.

- Initial Spot / Intersection No. 5 – Kennon Road (Bracken County)
- Initial Spot / Intersection No. 8 – MP 15.85 – MP 16.15 (Bracken County)
- Initial Spot / Intersection No. 22 – Strodes Run Pike (Mason County)
- Initial Spot / Intersection No. 33 – MP 22.1 (Lewis County)

Identify and Prioritize Preventative Maintenance Funds for portions of AA Highway that have not been repaved.

- Initial Spot / Intersection No. 30 – MP 29.014 – MP 29.314 (Lewis County)

5.3 Revised Improvement Locations

Utilizing the gathered information and combining those that were similar in nature, the initial list of spot / intersection locations was reduced from 43 to 27. The initial segment / corridor list remained the same with some individual locations from the initial spot / intersection list consolidated into one of these projects. **Table 12** provides a summary of the refined spot / segment improvement locations. **Table 13** provides a summary of refined corridor or study-wide improvement concepts. **Figure 20** provides the locations of these concepts on a map. Initial Spots / intersections not carried forward for additional consideration are summarized in **Table 14** along with a description of the reasoning for dismissal.

It should be noted that the nomenclature was modified at this point to change from numbering to lettering. All improvement concepts from this point forward are referred to by letter. **Tables 12** and **13** and **Figure 20** reflect this change. To see the correlation between the numbering system and lettering system, refer to the more detailed tables found in **Appendix F**.

These were then presented to the Project Team for further review and additional analysis.

Table 12. Summary of Revised Spot / Intersection Improvement Locations

	2020 AADT 2045 AADT Truck %	No. of Lanes	Lighting	Crash Rate (CRF)	CHAF	Geometric Issue	LO/S Input	Notes
A Pendleton KY 159	7,800 8,900 19.4%	3	Yes	<1.00	Yes IP20080380	No	2	• WB Passing Lane Drops Past Intersection • No Turn Lanes • Mostly Collisions with Animals
B Bracken Iler Rd	7,300 8,200 19.4%	3	Yes	<1.00	Yes IP20190008 IP20070207	No	2	• D6 Acquiring Route • Turn Lanes Not Warranted • 75% Crashes are Injury
C Bracken KY 1019	7,800 8,900 19.4%	3	Yes	1.18	Yes IP20070207	No	0	• EB Passing Lane • Left Turn Lanes • Several Angle Collisions
D Bracken KY 1159	6,400 7,300 19.4%	2	Yes	1.77	Yes IP200802777	No	0	• Left Turn Lanes • No Apparent Bridge Drains • Head-On and Sideswipe Crashes
E Bracken KY 875	5,500 6,300 19.4%	3	Yes	<1.00	Yes IP20150014 IP20080277	No	2	• EB Passing Lane • No Turn Lanes • Three Angle Collisions
F Bracken KY 19	6,200 7,100 19.4%	2	Yes	2.03	Yes IP20080277 IP20080553	No	0	• Left Turn Lanes • Car Park • Several Angle Collisions • Several Animal Collisions
G Mason KY 435	6,400 7,300 10.6%	4	Yes	1.30	No	No	0	• 4 Crashes Post Construction • Wet Conditions • 3 Run off Roadway Crashes
H Mason Downing Dr	9,200 10,400 10.6%	4	Yes	1.76	Yes IP20080380	No	0	• No Lighting on Ramp • Interchange Configuration
I Mason Kenton Station Rd	12,400 14,100 13.8%	4	No	1.16	Yes IP20160298	No	3	• No Right Turn Lane • 8 Rear End Collisions • No Lighting
J Mason US 62	13,900 15,800 14.2%	4	Yes	3.89	Yes IP20170079	No	2	• All Right Turns Shared • Double Lefts on All Approaches • Primarily Rear End Crashes

Table 12. Summary of Revised Spot / Intersection Improvement Locations (cont.)

	2020 AADT 2045 AADT Truck %	No. of Lanes	Lighting	Crash Rate (CRF)	CHAF	Geometric Issue	LO/S Input	Notes
K Mason Walmart	13,400 15,200 14.2%	4	Yes	1.52	Maysville SUA IDT	No	1	• Numerous Access Points • Mix of Rear End, Angle, and Opposing Left Turn Crashes
L Mason KY 1448	13,400 15,200 14.2%	4	Yes	2.08	No	No	0	• Striping May Be an Issue • Rear End Crashes
M Mason KY 11	12,000 13,600 14.2%	4	Yes	2.83	Yes IP20110092 IP20060255 IP20160183 IP20190115	No	0	• Rear End Crashes • Shared Through Right Lanes
N Mason Knoweshaw Rd	8,200 9,300 13.4%	2	No	1.36	Yes IP20110092 IP20060255 IP20160183 IP20190115	No	0	• Rear End Crashes • No Turn Lanes • No Painted Stop Bars on Approaches
O Mason Clarkson Sherman Rd	8,200 9,300 13.4%	2	No	<1.00	Yes IP20060255 IP20110093 IP20150186	No	1	• Trucks Turning Into Landfill • No Painted Stop Bars on Approaches
P Mason KY 1449	6,100 6,900 13.4%	2	Yes	1.58	Yes IP20060255 IP20110093 IP20130183	No	0	• Angle Collisions • Wide Flares for Right Turning Traffic • Oversized and Dual Stop Signs on Side Street
Q Mason Marathon	6,100 6,900 13.4%	2	No	1.11	Yes IP200660255 IP20110093	No	1	• Trucks Turning In/Out of Gas Station • No Turn Lanes • No Painted Stop Bars on Approaches
R Mason KY 1234.	6,100 6,900 13.4%	2	No	<1.00	Yes IP200660255 IP20110093	No	2	• Collision with Animal • Striping Confusing; Looks Like Turn Lane
S Lewis Garrard Rd	5,000 5,700 15.4%	2	Yes	<1.00	Yes IP20160298	No	2	• Issues with Cars Passing
T Lewis KY 57	5,000 5,700 15.4%	2	Yes	1.88	Yes 9-8807.00	No	0	• 2 Head On Collisions • Left and Right Turn Lanes • Striping Appears to be Faded

Table 12. Summary of Revised Spot / Intersection Improvement Locations (cont.)

	2020 AADT 2045 AADT Truck %	No. of Lanes	Lighting	Crash Rate (CRF)	CHAF	Geometric Issue	LO/S Input	Notes
U Lewis KY 59	5,100 5,800 19.1%	3	Yes	1.20	Yes IP20110103	Yes	0	• Left Turn Lanes Only • Angle Collisions • Culverts on Both Sides of Road
V Lewis KY 1306	4,600 5,200 9.7%	2	No	1.85	No	No	0	• Driveway in Curve • Fatality – Striking Tree • No Turn Lanes
W Greenup KY 7	2,900 3,300 9.6%	2	No	2.11	No	Yes	1	• 6 Angle Collisions • Multiple Angle Collisions Nearby
X Greenup US 23	6,700 7,600 11.4%	3	Yes	2.94	No	No	1	• Fog Issues • 8 Angle Collisions; 5 Rear End Collisions • Left and Right Turn Lanes
Y Carter KY 7 (North)	3,000 3,400 15.9%	2	No	<1.00	Yes IP20080528	No	2	• Intersection in Curve • No Turn Lanes
Z Carter KY 7 (South)	4,000 4,500 15.9%	3	No	<1.00	Yes IP20080528	No	1	• Transition Issues • Multiple Animal Collisions • No Turn Lanes
AA Carter KY 1959	4,600 5,200 19.9%	2	No	<1.00	Yes IP20080528 IP20080529	No	1	• No Turn Lanes

Table 13. Summary List of Revised Segment and Corridor Improvement Locations

	COUNTY Location	Crash Rate (CRF)	LO/S Input	Notes
AB	Mason Downing Dr to KY 11	1.16 – 2.85	1	• Current Posted Speed Limit is 45 mph • Input from LO/S – People Travel Too Fast
AC	All Counties	0.98 – 1.02	0	• Need Additional Truck Climbing Lanes • Need Modifications to Existing Truck Climbing Lanes
AD	All Counties	-	3	• Center Rutting Issue • Crack Sealant Obscuring Pavement Striping
AE	Lewis / Greenup Howland Hill Rd Blackbird Rd Tygart's Creek Rd Graysbranch Rd	-	5	• Need Side Road Signage / Identification
AF	Carter	-	1	• Routing to Carter Caves State Park Currently Uses Local Roads • Need to Evaluate GPS Routing for Better Routes
AG	Pendleton / Bracken / Mason	-	1	• Speeds Higher than Posted Speed Limit According to KYTC Speed Data
AH	Lewis	1.19	0	• Horizontally Deficient Curves • Three Locations with Ran-Off Roadway Crash Types

Figure 20. Summary of Revised / Dismissed Spot / Intersection Improvement Locations

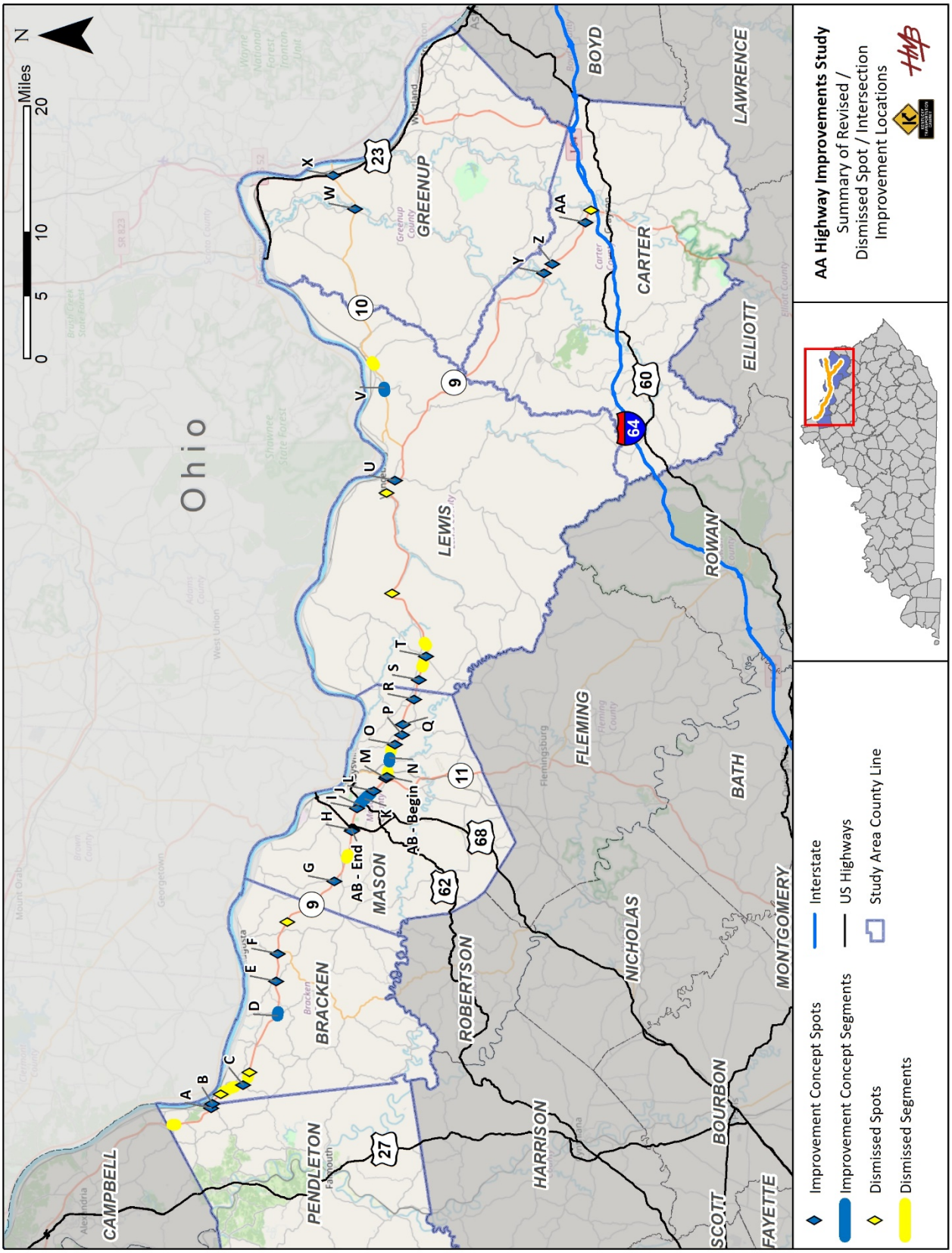


Table 14. Summary of Spot / Intersection Locations Removed from Further Consideration

Location				Reason for Dismissal
Route	**County**	**Intersecting Route**	**Milepoints**	**Description**
KY 9	Pendleton	Short Ivor Rd	3.628 - 3.928	On CRF threshold; no LO/S comments
KY 9	Bracken	Foster Rd	18.809	CRF < 1; KY 2228 is going to County; Iler Road considered for turn lanes
KY 9	Bracken	Kennon Rd	18.335 - 18.635	CRF < 1; Explore as part of corridor-wide project for adding / modifying climbing lanes
KY 9	Bracken	Holts Creek Rd	17.612 - 17.912	CRF < 1; Turn lanes not warranted
KY 9	Bracken	N/A	15.850 - 16.150	CRF < 1; Explore as part of corridor-wide project for adding / modifying climbing lanes
KY 9	Bracken	Eden Ridge Rd	15.687	CRF < 1; Traffic count performed - turn lanes not warranted
KY 9	Bracken	Hook Ln	2.831	CRF < 1; Improvements would occur with future development
KY 9	Mason	Strodes Run Pike	6.990-7.425	On CRF threshold; Explore as part of corridor-wide project for adding / modifying climbing lanes
KY 9	Mason	N/A - Farm Entrance	5.200 - 5.400	CRF < 1; Fatality involved human behavior factors; alcohol
KY 9	Lewis	N/A	29.014 - 29.314	CRF < 1; Explore as part of pavement management corridor project
KY 9	Lewis	Simmons Rd	27.175 - 27.475	CRF < 1; No LO/S comments
KY 9	Lewis	N/A	22.100	CRF < 1; Explore as part of corridor-wide project for adding / modifying climbing lanes
KY 10	Lewis	KY 3311	14.183 - 14.483	CRF < 1; No LO/S comments
KY 9	Carter	KY 1	0.000	CRF < 1; KYTC Reviewing signage per Grayson SUA
KY 9	Lewis	KY 2523 - Lions Ln	12.749	Brought up by D9 as having been previously studied and updated. No issues evident.
KY 9	Mason	Slack Pike	14.642 - 14.942	Post construction crashes were in parking lot

5.4 Project Team Meeting No. 2

The second Project Team meeting was held on Wednesday, March 18, 2020). This was one of the first meetings to switch to a virtual format due to the COVID-19 pandemic. Attendees included KYTC Division of Planning staff, KYTC District 6 and 9 staff, BTADD and FIVCO staff, and the consultant team. The materials presented and discussed at the meeting included a review of the study, data compiled from the LO/S Meeting No. 1, additional data compiled since the first Project Team meeting, and draft improvement locations. Attendees were provided draft summary sheets for each improvement location with potential improvement concepts prior to the meeting.

Some considerations related to improvement concepts brought up at this meeting included:

- Access control involving right-in / right-out should have a form of positive separation such as boards, flexible delineators, tubular markers, quick curb, etc.
- A new high visibility striping product by 3M could potentially be an effective countermeasure for spots that have a relatively high number of crashes occurring in wet conditions where poor visibility may be the cause.

Improvement concept categories considered for spot improvements generally included:

- Turn Lanes at Intersections
- Modifications to Truck Climbing Lanes
- Signage and / or Striping
- Access Management
- Enforce or Adjust Speed Limits
- Pavement Rehabilitation / Management
- Lighting

For additional detail regarding information presented and discussed at the meeting, refer to the meeting minutes found in **Appendix E**.

CHAPTER 6

IMPROVEMENT CONCEPT REFINEMENT

Chapter 6 – Improvement Concept Refinement

For each identified spot, segment, and corridor concept, improvement strategies were further developed and refined. Traffic forecasts were prepared for the future year 2045, planning-level cost estimates were further developed and refined, and a high-level benefit-cost analysis was completed. The following sections describe these activities in more detail.

6.1 2045 Traffic Forecasts and Operations

Segment Forecasts and Operations

Year 2045 forecasts for the mainline of the AA Highway (KY 9 / KY 10) were generated based on evaluation of historical traffic growth analysis and consultation with the Kentucky Statewide Travel Demand Model (KYSTM) and the Traffic Forecasting Estimation Tool (TFT). The analysis utilized traffic counts obtained from KYTC's Traffic Database which included counts from 2000 to 2020. No distinction was made between the No Build and Build volumes as differences were not expected to alter design decisions. Forecasts were provided for the mainline segments and are shown on **Figure 21** as a summary of the 2045 AADT range. For additional details regarding the traffic forecasting process, refer to **Appendix G**. HCS software was used in a similar manner as previously used for 2020 LOS operations analysis. The resulting 2045 LOS values are shown on **Figure 22**.

Intersection Forecasts and Operations

The intersections that have concepts that modify operations or capacity such as adding or modifying turn lanes and / or signal phasing or timing were included in the traffic forecast. For these intersections, current (2020) and future year (2045) volumes were determined by examining historical growth rates at nearby intersections and applying appropriate growth factors. HCS was also used to analyze the operations at each intersection. This analysis is presented in **Tables 15** and **Table 16**. Further detail including the process and turning movement volumes at each intersection are provided in the traffic forecast report in **Appendix G**.

Figure 21. 2045 AADT Range

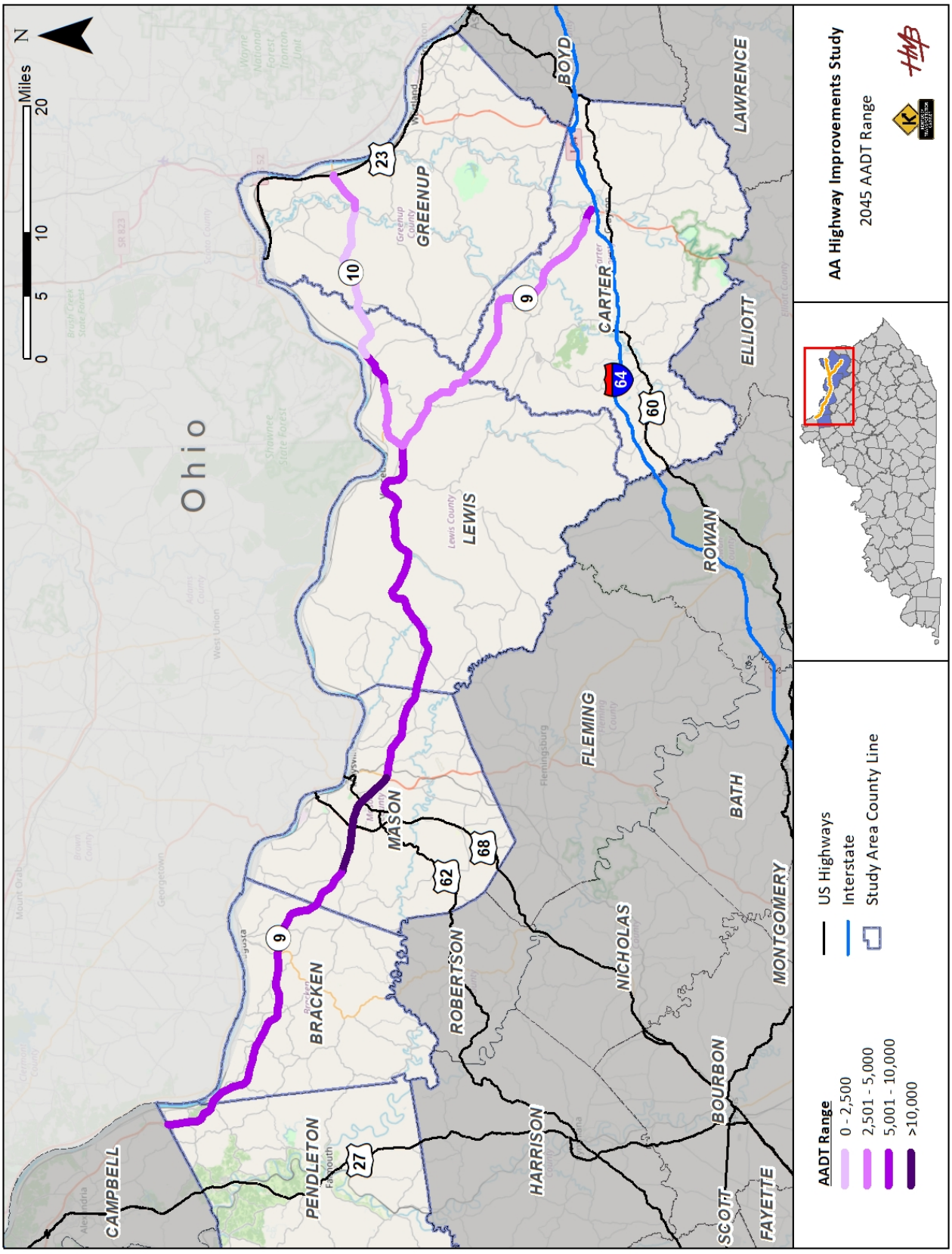


Figure 22. 2045 Level of Service

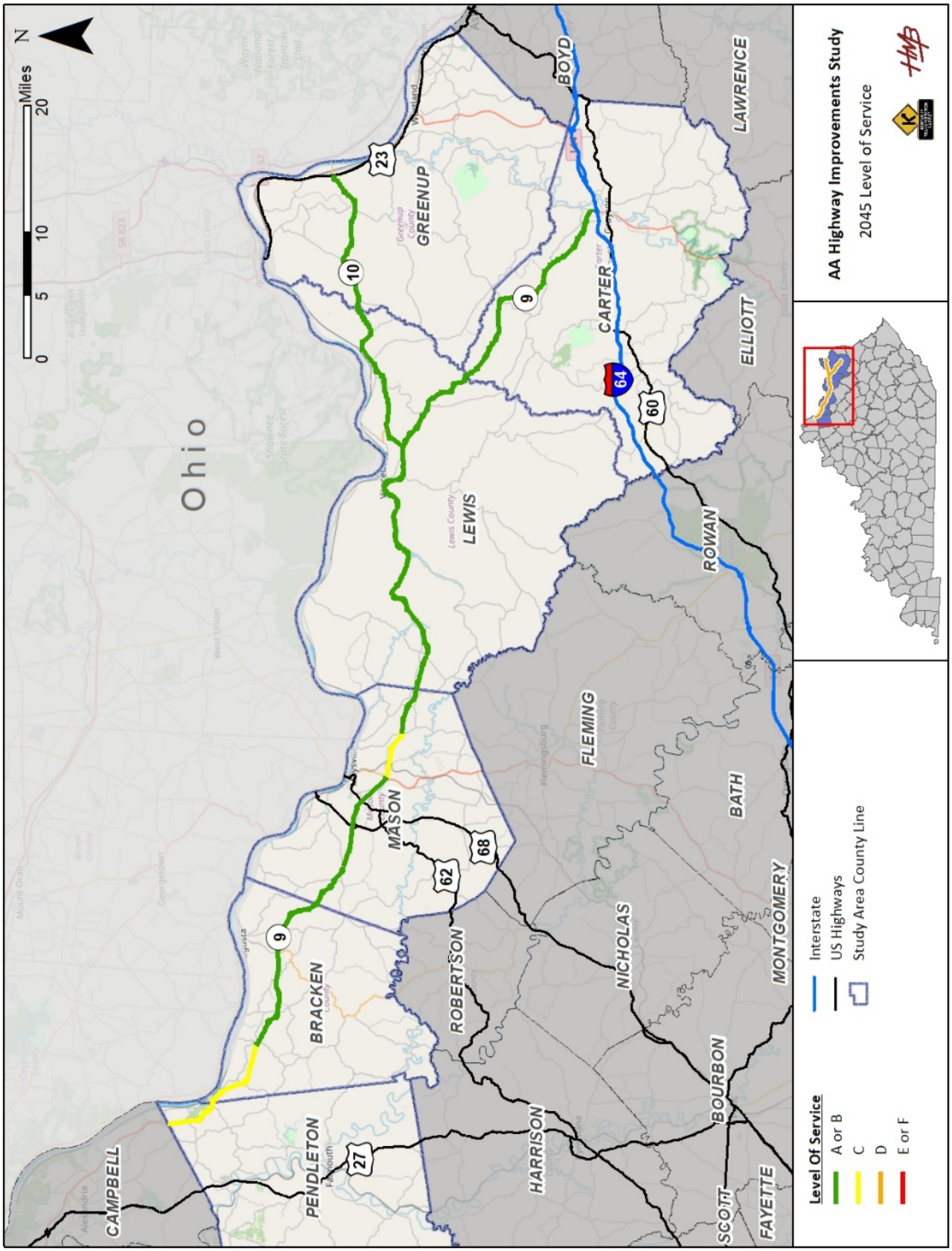


Table 15. Intersection Operations Analysis – Unsignalized Intersections

Intersections / Movements	2020 Existing						2045 No Build						2045 with Improvements					
	AM Peak			PM Peak			AM Peak			PM Peak			AM Peak			PM Peak		
	Delay (sec/veh)	LOS	Queue Length (veh)	Delay (sec/veh)	LOS	Queue Length (veh)	Delay (sec/veh)	LOS	Queue Length (veh)	Delay (sec/veh)	LOS	Queue Length (veh)	Delay (sec/veh)	LOS	Queue Length (veh)	Delay (sec/veh)	LOS	Queue Length (veh)
KY 9 at Iler Rd																		
Eastbound	0.6	A	N/A	0.5	A	N/A	0.6	A	N/A	0.5	A	N/A	0.5	A	N/A	0.3	A	N/A
Eastbound Left	8.3	A	0	7.9	A	0.1	8.4	A	0	8	A	0.1	8.4	A	0	8	A	0.1
Westbound	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Southbound	10.8	B	0.1	15.9	C	0.4	11.9	B	0.1	16.1	C	0.5	11.8	B	0.1	16	C	0.5
KY 9 at KY 875 (Mt. Zion Road)																		
Eastbound	0	A	N/A	0.3	A	N/A	0	A	N/A	0.3	A	N/A	0	A	N/A	0.3	A	N/A
Eastbound Left	7.8	A	0	7.8	A	0	7.9	A	0	7.9	A	0	7.8	A	0	7.8	A	0
Westbound	0.3	A	N/A	0	A	N/A	0.2	A	N/A	0	A	N/A	0.2	A	N/A	0	A	N/A
Westbound Left	7.7	A	0	8.1	A	0	7.7	A	0	8.2	A	0	7.7	A	0	8.2	A	0
Northbound	10	B	0	12.8	B	0.1	10.2	B	0	13.6	B	0.1	8.1	A	0	N/A	N/A	N/A
Southbound	10.4	B	0.1	11.2	B	0.1	10.6	B	0.1	11.7	B	0.1	9.2	A	0.1	10.6	B	0.1
KY 9 at Tucker Drive/Sawmill Pike																		
Eastbound	0.3	A	N/A	0	A	N/A	0.3	A	N/A	0	A	N/A	0.3	A	N/A	0	A	N/A
Eastbound Left	8.2	A	0	8.5	A	0	8.4	A	0	8.7	A	0	8.4	A	0	8.7	A	0
Westbound	2.7	A	N/A	2.3	A	N/A	2.7	A	N/A	2.5	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Westbound Left	8.4	A	0.5	10.3	B	0.6	8.6	A	0.6	11.1	B	0.8	N/A	N/A	N/A	N/A	N/A	N/A
Northbound	10.4	B	N/A	16.3	C	N/A	10.8	B	N/A	23.4	C	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Northbound Left	20.4	C	0.1	41	E	0.6	23.7	C	0.1	69.4	F	1.5	N/A	N/A	N/A	N/A	N/A	N/A
Northbound Right	9.4	A	0.2	11.8	B	0.7	9.6	A	0.2	12.8	B	0.9	9.6	A	0.2	12.8	B	0.9
Southbound	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15.6	C	N/A
Southbound Left	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	14.9	B	0	26.4	D	0.1
Southbound Right	9.5	A	0	9.9	A	0	9.6	A	0	10.2	B	0	9.6	A	0	10.2	B	0
KY 9 at Walmart Way (Entrance 2 - MP 9.270)																		
Eastbound	0	A	N/A	0	A	N/A	0	A	N/A	0	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Eastbound Left	8.6	A	0	8.4	A	0	8.8	A	0	8.6	A	0	N/A	N/A	N/A	N/A	N/A	N/A
Westbound	1.1	A	N/A	2.7	A	N/A	1.1	A	N/A	2.7	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Westbound Left	8.2	A	0.2	9.9	B	0.6	8.3	A	0.2	10.5	B	0.7	N/A	N/A	N/A	N/A	N/A	N/A
Northbound	9.4	A	N/A	16.2	C	N/A	9.5	B	N/A	18.5	C	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Northbound Left	16.6	C	0	39.1	E	0.9	18.4	C	0	52.3	F	1.2	N/A	N/A	N/A	N/A	N/A	N/A
Northbound Right	9.4	A	0.1	12.4	B	1.2	9.5	A	0.2	13.5	B	1.5	9.5	A	0.2	13.5	B	1.5
KY 9 at KY 59 - Fairlane Dr																		
Eastbound	0.4	A	N/A	0.7	A	N/A	0.4	A	N/A	0.6	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Eastbound Left	7.9	A	0	8	A	0	8	A	0	8.1	A	0	N/A	N/A	N/A	N/A	N/A	N/A
Eastbound Through	0	A	0	0	A	0	0	A	0	0	A	0	N/A	N/A	N/A	N/A	N/A	N/A
Westbound	0.7	A	N/A	1.1	A	N/A	0.6	A	N/A	0.9	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Westbound Left	7.9	A	0	8.3	A	0	7.9	A	0	8.4	A	0	N/A	N/A	N/A	N/A	N/A	N/A
Westbound Through	0	A	0	0	A	0	0	A	0	0	A	0	N/A	N/A	N/A	N/A	N/A	N/A
Northbound	14.4	B	N/A	19.9	C	N/A	16.1	C	N/A	23.7	C	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Northbound Left	15.2	C	1.5	24.6	C	1.2	17.6	C	2	31.9	D	2	N/A	N/A	N/A	N/A	N/A	N/A
Northbound Through	13.5	B	0	17.3	C	1.2	14.6	B	2	19.4	C	2	N/A	N/A	N/A	N/A	N/A	N/A
Southbound	13	B	N/A	18.6	C	N/A	14.1	B	N/A	21.9	C	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Southbound Left	13.9	B	0	22.2	C	1	15.4	B	1	28.9	D	1	N/A	N/A	N/A	N/A	N/A	N/A
Southbound Through	12.7	B	1.2	17.4	C	1.2	13.8	B	1.5	19.4	C	1.7	N/A	N/A	N/A	N/A	N/A	N/A
KY 9 at KY 7 (MP 6.498)																		
Eastbound	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Westbound	3	A	0.1	1.9	A	0.1	3.3	A	0.1	1.8	A	0.1	N/A	N/A	N/A	N/A	N/A	N/A
Westbound Left	7.7	A	0.1	7.7	A	0.1	7.8	A	0.1	7.7	A	0.1	N/A	N/A	N/A	N/A	N/A	N/A
Northbound	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
KY 9 at KY 7 (MP 5.486)																		
Eastbound	0	A	N/A	0.3	A	N/A	0	A	N/A	0.3	A	N/A	0	A	N/A	0.2	A	N/A
Eastbound Left	7.6	A	0	7.9	A	0	7.6	A	0	7.9	A	0	7.5	A	0	7.9	A	0
Westbound	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Southbound	9.5	A	0.1	10	A	0.1	9.7	A	0.1	10	B	0.1	10.2	B	0.1	10.1	B	0.1
KY 9 at KY 1959																		
Eastbound	0	A	N/A	0	A	N/A	0	A	N/A	0	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Eastbound Left	7.6	A	0	8	A	0	7.6	A	0	8	A	0	N/A	N/A	N/A	N/A	N/A	N/A
Westbound	0	A	N/A	0.3	A	N/A	0	A	N/A	0.3	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Westbound Left	7.9	A	0	7.7	A	0	8	A	0	7.8	A	0	N/A	N/A	N/A	N/A	N/A	N/A
Northbound	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Southbound	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table 16. Intersection Operations Analysis – Signalized Intersections

Intersections/Movements	2020 Existing						2045 No Build						2045 with Improvements					
	AM Peak			PM Peak			AM Peak			PM Peak			AM Peak			PM Peak		
	Delay (sec/veh)	LOS	Queue Length (ft)	Delay (sec/veh)	LOS	Queue Length (ft)	Delay (sec/veh)	LOS	Queue Length (ft)	Delay (sec/veh)	LOS	Queue Length (ft)	Delay (sec/veh)	LOS	Queue Length (ft)	Delay (sec/veh)	LOS	Queue Length (ft)
KY 9 at Downing Dr / US 68 Ramp																		
Eastbound	4.4	A	N/A	4.3	A	N/A	7.1	A	N/A	9	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Eastbound Left	4.2	A	12	4	A	5	6.4	A	12	8.4	A	7	N/A	N/A	N/A	N/A	N/A	N/A
Eastbound Through	4.5	A	59	4.5	A	62	7.3	A	63	9.4	A	87	N/A	N/A	N/A	N/A	N/A	N/A
Eastbound Right	0.8	A	3	1.6	A	7	0.5	A	2	2.9	A	10	N/A	N/A	N/A	N/A	N/A	N/A
Westbound	3.5	A	N/A	4.4	A	N/A	5.8	A	N/A	9.1	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Westbound Left	4.2	A	5	4	A	5	6.2	A	5	8.4	A	7	N/A	N/A	N/A	N/A	N/A	N/A
Westbound Through	4.2	A	34	4.5	A	61	6.7	A	38	9.4	A	85	N/A	N/A	N/A	N/A	N/A	N/A
Westbound Right	1.1	A	12	0.8	A	3	2.1	A	14	0	A	1	N/A	N/A	N/A	N/A	N/A	N/A
Northbound	3.9	A	N/A	9.4	A	N/A	2.8	A	N/A	11.9	B	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Northbound Left	46.9	D	25	52.3	D	69	22.9	C	16	19	B	35	N/A	N/A	N/A	N/A	N/A	N/A
Northbound Through	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Northbound Right	1.1	A	0	9.4	A	0	1.6	A	0	11	B	93	N/A	N/A	N/A	N/A	N/A	N/A
Southbound	46.3	D	N/A	43.6	D	N/A	22.2	C	N/A	14.4	B	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Southbound Left	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Southbound Through	57.7	E	108	57.4	E	103	27.5	C	72	20.7	C	57	N/A	N/A	N/A	N/A	N/A	N/A
Southbound Right	6.1	A	13	12.8	B	25	0.5	A	2	2.5	A	10	N/A	N/A	N/A	N/A	N/A	N/A
Intersection Delay / LOS	8.3 / A			8.8 / A			7.4 / A			10.2 / B			N/A			N/A		
KY 9 at Kenton Station Dr																		
Eastbound	2.3	A	N/A	7.2	A	N/A	2.7	A	N/A	8.2	A	N/A	2.7	A	N/A	8.2	A	N/A
Eastbound Left	2.8	A	3	6.5	A	10	3.6	A	4	5.9	A	7	3.6	A	4	5.9	A	7
Eastbound Through	2.3	A	42	7.2	A	162	2.7	A	62	8.2	A	109	2.7	A	62	8.2	A	109
Westbound	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.1	A	N/A	6.9	A	N/A
Westbound Through	2	A	51	6.8	A	141	2.2	A	54	7.5	A	94	2.6	A	48	7.5	A	85
Westbound Right	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	A	17	2	A	15
Southbound Left	53.1	D	56	64.2	E	238	29.7	C	38	34.8	C	>154	29.1	C	37	34.8	C	>154
Intersection Delay / LOS	3.7 / A			14.1 / B			3.2 / A			11.2 / B			3.1 / A			10.9 / B		
KY 9 at US 62																		
Eastbound (AA)	40.9	D	N/A	56.1	E	N/A	48.1	D	N/A	62.4	E	N/A	31.1	C	N/A	44.1	D	N/A
Eastbound Left	42.5	D	215	56.2	E	369	50.6	D	253	57.3	E	>338	37	D	102	38.6	D	119
Eastbound Through	40.2	D	190	56.1	E	421	46.9	D	222	64.4	E	>400	25.6	C	103	46.5	D	>320
Westbound (AA)	73.9	E	N/A	109.7	F	N/A	63.5	E	N/A	71.3	E	N/A	27.1	C	N/A	28.5	C	N/A
Westbound Left	63.2	E	50	67	E	136	53.5	D	49	40.8	D	96	32.6	C	32	36.1	D	81
Westbound Through	74.5	E	230	114.2	F	>547	64	E	283	74.2	E	>414	38.1	D	121	40.9	D	170
Westbound Right	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.3	A	5	9.1	A	70
Northbound (US 62)	79.6	E	N/A	74.6	E	N/A	67.1	E	N/A	73.1	E	N/A	47.2	D	N/A	37	D	N/A
Northbound Left	60.2	E	84	67.4	E	117	52.8	D	96	54.7	D	108	34.6	C	63	36.1	D	81
Northbound Through	81.3	F	331	75.9	E	235	68.5	E	>386	76.6	E	>242	48.6	D	>226	37.2	D	137
Southbound (US 62)	74.3	E	N/A	76.1	E	N/A	63.1	E	N/A	82.9	F	N/A	27.9	C	N/A	40.6	D	N/A
Southbound Left	73.7	E	180	84.6	F	402	64.2	E	201	98.7	F	>437	34	C	60	41.3	D	140
Southbound Through	74.5	E	235	72	E	348	62.7	E	246	75.1	E	>359	25.6	C	126	40.1	D	>241
Intersection Delay / LOS	67.5 / E			78.8 / E			60.6 / E			72.1 / E			34.1 / C			37.8 / D		
KY 9 at Market Square Dr																		
Eastbound	8.2	A	N/A	19.3	B	N/A	4.4	A	N/A	12.3	B	N/A	7.6	A	N/A	3.8	A	N/A
Eastbound Through	8.2	A	122	21.1	C	260	4.7	A	53	14.3	B	177	8.2	A	62	4.5	A	113
Eastbound Right	8.4	A	35	11.4	B	96	2.5	A	14	3.4	A	33	3.6	A	15	0.7	A	5
Westbound	3.4	A	N/A	6.2	A	N/A	3.1	A	N/A	7.8	A	N/A	5.8	A	N/A	11.8	B	N/A
Westbound Left	29.7	C	13	27.7	C	42	26	C	17	29.7	C	38	34.5	C	47	39.9	D	71
Westbound Through	2.6	A	34	4.2	A	52	2.5	A	33	6	A	65	1.4	A	13	6.6	A	75
Northbound	32.4	C	N/A	32	C	N/A	27	C	N/A	28.5	C	N/A	31.1	C	N/A	29.2	C	N/A
Northbound Left	39	D	61	43.3	D	169	31.5	C	59	38.3	D	172	36.6	D	66	39.2	D	174
Northbound Right	15.5	B	21	8.1	A	37	13.3	B	18	7	A	36	14.4	B	20	7.2	A	36
Intersection Delay / LOS	8.4 / A			17.6 / B			6.2 / A			14.1 / B			9.0 / A			11.1 / B		

Table 16. Intersection Operations Analysis – Signalized Intersections (cont.)

Intersections/Movements	2020 Existing						2045 No Build						2045 with Improvements					
	AM Peak			PM Peak			AM Peak			PM Peak			AM Peak			PM Peak		
	Delay (sec/veh)	LOS	Queue Length (ft)	Delay (sec/veh)	LOS	Queue Length (ft)	Delay (sec/veh)	LOS	Queue Length (ft)	Delay (sec/veh)	LOS	Queue Length (ft)	Delay (sec/veh)	LOS	Queue Length (ft)	Delay (sec/veh)	LOS	Queue Length (ft)
KY 9 at Walmart Way 1 (MP 9.430)																		
Eastbound	3.6	A	N/A	7.8	A	N/A	1.2	A	N/A	5	A	N/A	3.4	A	N/A	5.7	A	N/A
Eastbound Through	4	A	15	9.4	A	108	1.4	A	21	6.2	A	52	3.8	A	20	7.1	A	60
Eastbound Right	0.9	A	0	2.6	A	25	0.1	A	0	1	A	0	0.2	A	0	1.1	A	0
Westbound	3.4	A	N/A	8.6	A	N/A	2.7	A	N/A	8.1	A	N/A	13.7	B	N/A	26.7	C	N/A
Westbound Left	35.2	D	14	36.9	D	33	53	D	18	32.2	C	30	39.7	D	93	57.8	E	>135
Westbound Through	3	A	57	7.1	A	70	2.2	A	67	7	A	68	3	A	63	7	A	67
Northbound	27.4	C	N/A	27.6	C	N/A	45.6	D	N/A	26.6	C	N/A	30.5	C	N/A	38.8	D	N/A
Northbound Left	36.5	D	42	36.1	D	140	60.6	E	60	35.2	D	148	34.7	C	40	46.5	D	>227
Northbound Right	0.3	A	0	0.7	A	0	0.5	A	0	0.8	A	0	18	B	15	8.4	A	30
Intersection Delay / LOS	4.7 / A			11.4 / B			4.2 / A			9.6 / A			11.3 / B			19.7 / B		
KY 9 at KY 11																		
Eastbound	20.7	C	N/A	29.6	C	N/A	18.3	B	N/A	32.5	C	N/A	17.6	B	N/A	24.6	C	N/A
Eastbound Left	86	F	59	97	F	136	46.8	D	40	57.3	E	103	46.8	D	40	54.6	D	100
Eastbound Through	16.6	B	120	23.4	C	327	16.7	B	102	30.2	C	333	28.6	C	90	29.6	C	221
Eastbound Right	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.9	A	0	5	A	55
Westbound	28.4	C	N/A	31.1	C	N/A	29.8	C	N/A	30.3	C	N/A	29.8	C	N/A	31.1	C	N/A
Westbound Left	96.1	F	133	93.2	F	99	55	D	102	50.4	D	66	55	D	102	48.4	D	64
Westbound Through	19.1	B	193	22.9	C	148	26.2	C	224	28	C	148	26.2	C	224	29.1	C	148
Northbound	109.3	F	N/A	89.7	F	N/A	45	D	N/A	54.5	D	N/A	45	D	N/A	50.2	D	N/A
Northbound Left	130.4	F	517	99.7	F	>410	54.3	D	>320	61.1	E	>283	54.3	D	>320	55.6	E	>257
Northbound Through	60.4	E	186	68.5	E	172	24.8	C	126	40.1	D	109	24.8	C	126	38.2	D	105
Southbound	49.2	D	N/A	74.8	E	N/A	30.3	C	N/A	34.3	C	N/A	30.3	C	N/A	33.1	C	N/A
Southbound Left	82.4	F	37	94.3	F	152	45.6	D	25	42.3	D	105	45.6	D	25	39.9	D	102
Southbound Through	45.1	D	58	65	E	112	28.6	C	45	30.4	C	72	28.6	C	45	29.6	C	71
Intersection Delay / LOS	49.0 / D			46.9 / D			30.9 / C			36.3 / D			30.7 / C			31.5 / C		

6.2 Planning-Level Cost Estimates

Planning-level (high-level) cost estimates were produced for each of the improvement concepts by estimating the 2020 costs of Design, Right-of-way acquisition, Utilities, and Construction. No surveying or detailed design was performed. Construction quantities such as pavement, earthwork, traffic items, etc. were estimated for each item determined to be necessary to construct the proposed improvements. Factors were applied to increase this amount to account for contingencies, miscellaneous items not estimated, and small-project inflation. This cost was then multiplied by a factor to estimate the design cost if it was over the base design amount. High-level utility location and identification was performed to determine estimates of relocation based on any potential improvement impacts. For improvements that had a potential impact on areas outside of right-of-way, the area was sent to KYTC to obtain a cost estimate for potential right-of-way acquisition.

6.3 Benefit-Cost Analysis

Benefits of a transportation investment measure the direct and positive effects of that project over a specified period of time. A benefit-cost (B/C) analysis can be leveraged as one of the many tools to consider improvements and support decisions for infrastructure investment. Relying upon guidance from the U.S. Department of Transportation Benefit-Cost Analysis Guidance for Discretionary Grant Programs (January 2020), there are four primary areas of project benefit that can be translated into monetary values. These include:

- Travel Time Savings (vehicle-hours traveled or VHT)
- Vehicle Operating Costs (vehicle-miles traveled or VMT, which is the most common variable that affects vehicle operating costs)

- Safety Benefits (reduction in the likelihood of fatalities, injuries, and property damage resulting from crashes on the investment)
- Emissions Reduction Benefits

Costs for this planning stage are focused on capital costs – the total investment required to prepare a highway improvement for service. Maintenance costs are not included as the initial benefit-cost time period focuses on the initial benefit of construction. All monetary values are in constant (2020) dollars. Discounting (the process of converting the costs and benefits that take place in different years into a common year) is not included for this high-level analysis.

The emphasis for this study has been on consideration of improving safety and operational performance of the AA Highway. As noted through the existing conditions analysis and development of future year volumes, traffic operations are generally at an acceptable level throughout the study area. Therefore, this benefit-cost analysis focuses on identifying the safety benefits and comparing that to the investment cost to determine a benefit-cost ratio.

To translate the safety benefits associated with an improvement, crash modification factors (CMFs) from the Crash Modification Factors Clearinghouse were applied to the number of applicable crashes at each location. The CMFs selected are based on crash type and severity to determine the potential reduction of crashes for each improvement type. The crash reduction was then multiplied by a cost per crash. The costs per crash were provided by KYTC. They are based on research completed by Vanasse Hangen Brustlin, Inc. (VHB) and broken down by the KABCO severity scale. The severity distribution was calibrated for this study by putting in the historic crash severity breakdown into the spreadsheet which then assigns a total cost per code for KABCO as well as various weighted averages costs per combination of codes. The distribution and calculated weighted average costs for this study are shown in **Table 17** and **Table 18. Table 19** shows the resulting selected CMFs multiplied by the number of historic crashes and the monetary value. Due to the high level of this analysis, further breakdown by crash severity was not used in assigning cost. Only the full KABCO weighted average cost was used.

Table 17. Calibration of Crash Data by Severity for Total Cost Per Crash

2018 Severity Distribution		
Code	**# of Crashes**	**Total Cost**
K	7	$64,970,997
A	45	$24,206,085
B	44	$7,166,940
C	44	$4,530,108
O	465	$4,505,385

Table 18. Weighted Average Crash Costs by Severity Combination

Weighted Average Costs	
KA	$1,714,944
KAB	$1,003,584
KABC	$720,530
KABCO	$174,181
AB	$352,506
ABC	$269,948
ABCO	$67,573
CO	$17,751

Table 19. Benefits Related to Crash Reduction

Location						Crash Data	Improvement Concept	Planning-Level Benefit-Cost Analysis			
ID	Route	County	Intersecting Route	Description	Milepoints	No. of Crashes	Total Cost (2020 Dollars)	CMF	Reduction	Benefit	Benefit/Cost Ratio
A	KY 9	Pendleton	KY 159 - New Hope Rd	A - KY 9 at KY 159 - New Hope Rd	0.296	5	Concept 1 - $540,000 Concept 2 - $15,000	Concept 1 - 0.57 Concept 2 - 0.56	Concept 1 - 2.0 Concept 2 - 2.0	Concept 1 - $348,360 Concept 2 - $348,360	Concept 1 - 0.65 Concept 2 - 23.20
B	KY 9	Bracken	Iler Rd	B - KY 9 at Iler Rd	19.804	7	$945,000	Left Turn - 0.56 Right Turn - 0.80 Signage - 0.65 (Angle)	5.0	$864,220	0.91
C	KY 9	Bracken	KY 1019 - Lenoxsburg Foster Rd	C - KY 9 at KY 1019 - Lenoxsburg Foster Rd	16.856	5	$540,000	Offset - 0.66 Signage - 0.64 (Angle)	2.9	$503,030	0.93
E	KY 9	Bracken	KY 875 - Mt. Zion Rd	E - KY 9 at KY 875 - Mt. Zion Rd	7.751	3	$225,000	EB/WB Left Turn - 0.52 Signage - 0.64 (Angle)	2.0	$348,640	1.55
F	KY 9	Bracken	KY 19 - Augusta Chatham Rd	F - KY 9 at KY 19 - Augusta Chatham Rd	5.546	12	$320,000	Signage - 0.64 (Angle) STOP Signs - 0.45 (Angle) Offset - 0.66	9.7	$1,692,870	5.29
I	KY 9	Mason	Kenton Station Dr	I - KY 9 at Kenton Station Dr	10.861	19	$645,000	Right Turn - 0.80 Timing - 0.92 Signage - 0.64 (Angle)	10.1	$1,750,560	2.71
J	KY 9	Mason	US 62	J - KY 9 at US 62	10.180 - 10.567	112	$2,575,000	Left Turn - 0.56 Right Turn - 0.80 Timing - 0.92	65.8	$11,467,740	4.45
K	KY 9	Mason	Market Square Dr, Tucker Dr, Walmart Way Entrances	K - KY 9 at Market Square Dr, Tucker Dr, Walmart Way Entrances	9.250 - 10.000	55	$7,385,000	Median - 0.49	28.1	$4,885,780	0.66
M	KY 9	Mason	KY 11	M - KY 9 at KY 11	7.560	38	$995,000	Left Turn - 0.56 Right Turn - 0.80 Timing - 0.92 Signage - 0.64 (Angle)	22.3	$3,890,840	3.91
N	KY 9	Mason	Knoweshaw Rd	N - KY 9 at Knoweshaw Rd	5.900 - 6.230	12	$450,000	STOP Bar - 0.33 (Angle) Right Turn - 0.80 Signage - 0.64 (Angle)	10.0	$1,737,020	3.86
O	KY 9	Mason	Clarkson Sherman Rd	O - KY 9 at Clarkson Sherman Rd	4.740	2	$525,000	Left Turn - 0.56 Right Turn - 0.80 STOP Bar - 0.33 (Angle)	1.7	$296,860	0.57
P	KY 9	Mason	KY 1449 - Orangeburg Rd	P - KY 9 at KY 1449 - Orangeburg Rd	3.781	11	$490,000	Right Turn - 0.80 Offset - 0.66 Signage - 0.64 (Angle)	7.3	$1,268,540	2.59
Q	KY 9	Mason	Marathon/Vaughn Ln	Q - KY 9 at Marathon/Vaughn Ln	2.960	7	$550,000	Left Turn - 0.56 STOP Bar - 0.33 (Angle)	5.7	$993,950	1.81
R	KY 9	Mason	KY 1234	R - KY 9 at KY 1234	0.742	1	Concept 1 - $15,000 Concept 2 - $315,000	Concept 1 - 0.99 Concept 2 - 0.56	Concept 1 - 0.0 Concept 2 - 0.0	$0	0.00
V	KY 10	Lewis	KY 1306 - Kinney Rd	V - KY 10 at KY 1306 - Kinney Rd	11.805 - 12.105	8	$670,000	STOP Signs - 0.45 (Angle) Signage - 0.64 (Angle) EB/WB Left Turn - 0.52	6.8	$1,184,770	1.77

CHAPTER 7

ADDITIONAL ENGAGEMENT EFFORTS

Chapter 7 – Additional Engagement Efforts

7.1 Local Officials / Stakeholder Meeting No. 2

A second set of local officials / stakeholder (LO/S) meetings were held virtually to present and collect input on the refined set of project locations and improvement concepts. The meetings were held virtually due to health and safety concerns resulting from the COVID-19 pandemic. The first meeting was held on Tuesday, July 14, 2020 at 9:30 AM (Eastern Time) for the FIVCO portion of the study (Carter and Greenup Counties). The other meeting targeted the NKADD and BTADD portion of the study area (Pendleton, Bracken, Mason, and Lewis Counties). It was held on Thursday, July 16, 2020 at 1:30 PM (Eastern Time). The attendee list was prepared by BTADD and FIVCO with input from KYTC and the consultant. Attendees included representatives from various local jurisdictions (mayors, magistrates, County Judge-Executives, etc.), local fire departments, local police departments, EMS, local schools, and the nearby state park (Carter Caves State Park). A presentation was given by the consultant through an ArcGIS StoryMap. The material included study background, previous input from the first LO/S meeting, improvement concept development and evaluation, and the improvement concepts. Survey polls were conducted throughout the meetings to provide opportunities for interaction along with time after each topic for discussion.

From the polling, the most important consideration related to priorities was cost. The type of improvement concept that was identified as most needed for the AA Highway was turn lanes at intersections.

From these meetings, an additional location was added to consider improvements – the intersection of the AA Highway and KY 2523 (Lions Lane). The data does not show a history of crashes; however, there is concern regarding the potential for crashes. This intersection provides access to the Lewis County Middle and High Schools. Traffic circulation along with young drivers were brought up as issues to be considered as part of improvement concept development.

Attendees were also asked to review the project locations and improvement concepts, and categorize them based on high, medium, and low priority following the meeting. The website link to the presentation and survey was provided to attendees to collect this input. **Figure 23** shows the total number of responses per concept. **Table 20** presents the percentages of responses for high, medium, low priorities.

Additional information and survey results can be found in the meeting minutes in **Appendix E.**

Figure 23. LO/S Meeting No. 2 – Total Responses Per Concept

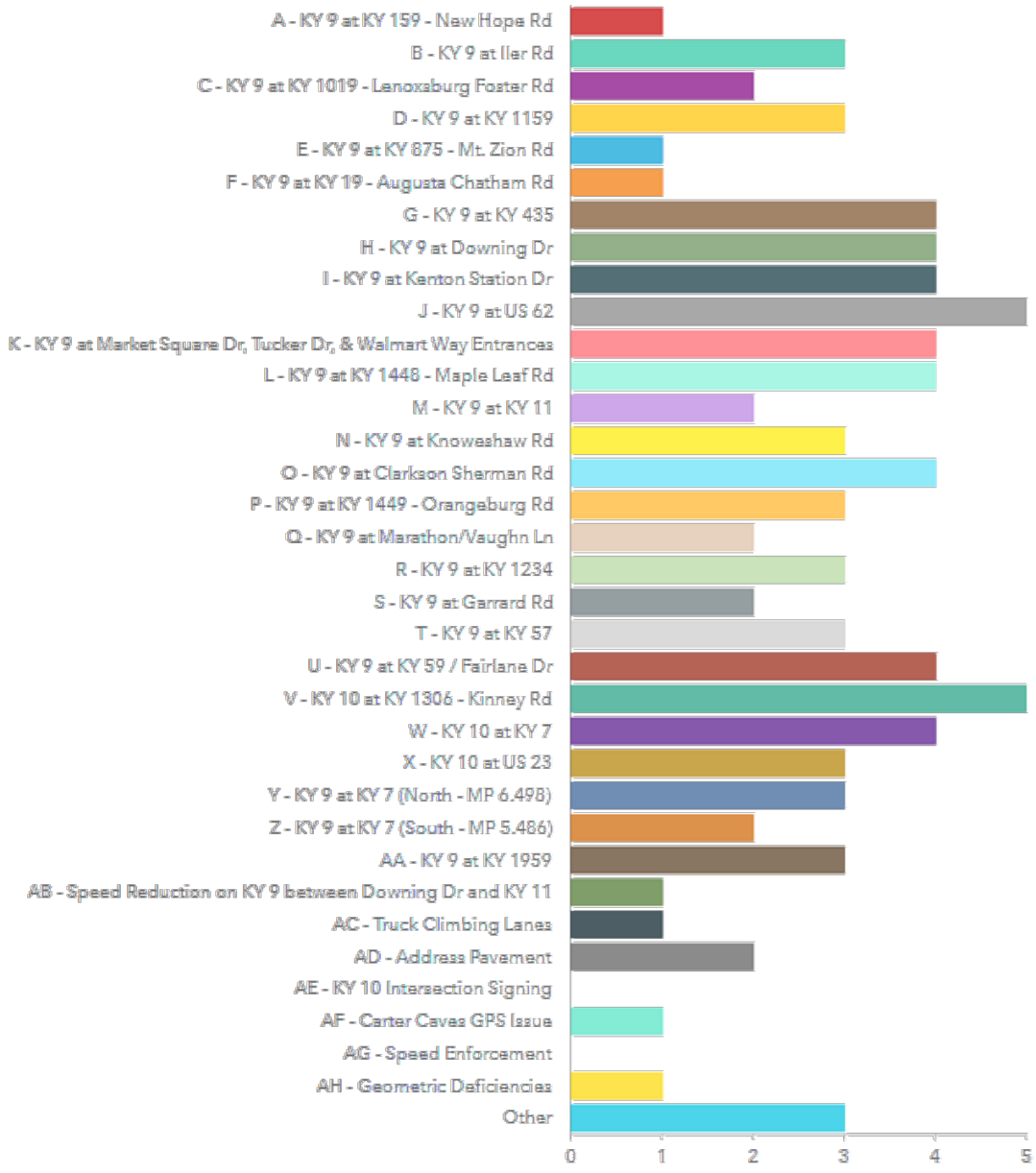


Table 20. LO/S Meeting No. 2 – Percentage of Priority Responses

Location	Priority Responses							
	High		Medium		Low		Total Count	% of Responses
	Count	%	Count	%	Count	%		
A - KY 9 at KY 159 - New Hope Rd	1	100%	-	0%	-	0%	1	1.15%
B - KY 9 at Iler Rd	2	67%	1	33%	-	0%	3	3.45%
C - KY 9 at KY 1019 - Lenoxsburg Foster Rd	-	0%	-	0%	2	100%	2	2.30%
D - KY 9 at KY 1159	2	67%	1	33%	-	0%	3	3.45%
E - KY 9 at KY 875 - Mt. Zion Rd	-	0%	1	100%	-	0%	1	1.15%
F - KY 9 at KY 19 - Augusta Chatham Rd	1	100%	-	0%	-	0%	1	1.15%
G - KY 9 at KY 435	1	25%	2	50%	1	25%	4	4.60%
H - KY 9 at Downing Dr	2	50%	2	50%	-	0%	4	4.60%
I - KY 9 at Kenton Station Dr	4	100%	-	0%	-	0%	4	4.60%
J - KY 9 at US 62	5	100%	-	0%	-	0%	5	5.75%
K - KY 9 at Market Square Dr, Tucker Dr, & Walmart Way Entrances	2	50%	-	0%	2	50%	4	4.60%
L - KY 9 at KY 1448 - Maple Leaf Rd	2	50%	1	25%	1	25%	4	4.60%
M - KY 9 at KY 11	1	50%	1	50%	-	0%	2	2.30%
N - KY 9 at Knoweshaw Rd	1	33%	1	33%	1	33%	3	3.45%
O - KY 9 at Clarkson Sherman Rd	3	75%	-	0%	1	25%	4	4.60%
P - KY 9 at KY 1449 - Orangeburg Rd	1	33%	1	33%	1	33%	3	3.45%
Q - KY 9 at Marathon/Vaughn Ln	-	0%	1	50%	1	50%	2	2.30%
R - KY 9 at KY 1234	2	67%	-	0%	1	33%	3	3.45%
S - KY 9 at Garrard Rd	1	50%	1	50%	-	0%	2	2.30%
T - KY 9 at KY 57	2	67%	1	33%	-	0%	3	3.45%
U - KY 9 at KY 59 / Fairlane D	3	75%	-	0%	1	25%	4	4.60%
V - KY 10 at KY 1306 - Kinney Rd	2	40%	2	40%	1	20%	5	5.75%
W - KY 10 at KY 7	-	0%	3	100%	-	0%	3	3.45%
X - KY 10 at US 23	3	100%	-	0%	-	0%	3	3.45%
Y - KY 9 at KY 7 (North - MP 6.498)	2	67%	1	33%	-	0%	3	3.45%
Z - KY 9 at KY 7 (South - MP 5.486)	-	0%	1	50%	1	50%	2	2.30%
AA - KY 9 at KY 1959	1	33%	1	33%	1	33%	3	3.45%
AB - Speed Reduction on KY 9 between Downing Dr and KY 11	-	0%	-	0%	1	100%	1	1.15%
AC - Truck Climbing Lanes	-	0%	-	0%	1	100%	1	1.15%
AD - Address Pavement	2	100%	-	0%	-	0%	2	2.30%
AE - KY 10 Intersection Signing	-	-	-	-	-	-	0	0.00%
AF - Carter Caves GPS Issues	1	100%	-	0%	-	0%	1	1.15%
AG - Speed Enforcement	-	-	-	-	-	-	0	0.00%
AH - Geometric Deficiencies	1	100%	-	0%	-	0%	1	1.15%
Other	-		-		-		0	0.00%

These responses were used for consideration in overall prioritization by the Project Team.

7.2 Project Team Meeting No. 3

The third Project Team meeting was held on Thursday, September 3, 2020. The meeting was held virtually due to health and safety concerns resulting from the COVID-19 pandemic. Attendees included KYTC Division of Planning staff, KYTC District 6 and 9 staff, BTADD and FIVCO staff, and the consultant team. The materials presented and discussed at the meeting included

- Review of the study
- Data compiled from the LO/S Meeting No. 2 and survey results
- Additional improvement concept developed from the need for evaluation and improvements at KY 9 and Lions Lane in Lewis County expressed at the LO/S Meeting No. 2
- Discussion on improvement concept prioritization

Attendees were provided updated draft summary sheets for each improvement location with potential improvement concepts prior to the meeting.

Some considerations related to improvement concepts brought up at this meeting include:

- The additional improvement concept location at Lions Lane (KY 2523) and the AA Highway (KY 9). It was noted that Southern Ohio Medical Center (SOMC) is in the process of acquiring land and permitting to build a medical office building complex accessed from the nearby intersection of Commonwealth Road (previously Old KY 10 Road) and KY 9. HMB was contracted to complete the traffic impact study. As a result, additional traffic data collection for the Lions Lane / AA Highway intersection and adjacent Lions Lane / Commonwealth intersection will be included in the analysis to help determine improvement concepts given the future development changes.
- The LO/S Meeting No. 2 data
- A draft process and data for prioritizing the improvement concepts
- Benefit-Cost Analysis

Improvement concept prioritization categories chosen to be included:

- Short-Term Priority
- Low Priority
- Medium Priority
- High Priority
- Other

For additional detail regarding information presented and discussed at the meeting, refer to the meeting minutes found in **Appendix E**.

CHAPTER 8

STUDY OUTCOMES

Chapter 8 – Study Outcomes

8.1 Prioritized Projects

The AA Highway Improvements Study resulted in a range of conceptual improvements for future implementation. Improvement concepts primarily focused on areas with safety concerns identified either through examination of documented crash records or local officials / stakeholder input. Utilizing additional tools including operations analysis, traffic forecasting, Project Team input, local officials / stakeholder input and a high-level benefit-cost analysis, a prioritized list of recommendations for improvements has been compiled. The list includes 28 individual spot or segment locations with 7 corridor-wide recommendations. The prioritization is broken down by the following categories:

- **Short-Term** projects included those that are either relatively low-cost or can be implemented relatively quickly using KYTC resources such as maintenance activities. These projects would not need to go through the SHIFT process to be constructed. There were 12 total Short-Term projects. **Table 21** lists the project location and improvement concepts for this category. Also included is the additional concept location at Lions Lane (KY 2523) and the AA Highway (KY 9). It was not included in the prioritization process but should be included in this category given the additional nearby development and roadway modifications / development for the school complex.

- **High Priority** projects included those that were overall in a higher tier of ratings based on crash history, benefits-cost analysis, and local official / stakeholder input. There were 7 total High-Priority projects. **Table 22** lists the project location and improvement concepts for this category.

- **Medium Priority** projects included those that were overall in the middle tier of ratings based on crash history, benefits-cost analysis, and local official / stakeholder input. There were 5 total Medium-Priority projects. **Table 23** lists the project location and improvement concepts for this category.

- **Low Priority** projects included those that were overall in the lowest tier of ratings based on crash history, benefits-cost analysis, and local official / stakeholder input. There were 3 total Low-Priority projects. **Table 24** lists the project location and improvement concepts for this category.

- Other projects included those that are broader in nature (i.e. corridor-wide or a longer segment), consolidated projects, or policy-based. There were 7 total Other projects. **Table 25** lists the project location and improvement concepts for this category.

The ranking system used to score the projects included ranking the CRF, Benefit-Cost Analysis, local officials / stakeholder prioritization, then combining the score to determine which projects rated the highest. This list was then compared against existing CHAF projects to determine if any priorities needed to be adjusted. **Figure 24** shows the priority scoring of the 15 concepts with a high, medium, or low ranking from the study. Project sheets for each concept can be found starting on page 71.

Table 21. Short-Term Projects

	Improvement Description	Cost (2020 Dollars Including DRUC)
D Bracken KY 875	• Add advanced intersection warning signage. • Add advance bridge warning and "Bridge Ices Before Road" signage. • Add Drains to Bridge	$12,500
G Mason KY 435	• Add wet roadway condition warning signs. • Evaluate drainage further at this intersection. Surveying will be required to determine areas that need to be addressed further. • Add open graded high skid-resistance overlay.	$85,000
H Mason Downing Dr	• Evaluate and improve signal timing and phasing. • Add advance intersection signage. • This intersection is included in concept AB which lowers the speed limit to 45 mph just west of this intersection.	$10,000
L Mason KY 1448	• The widening improvement for concept K extends through this intersection. • Add advanced intersection warning signage. • Add dual red signal heads.	$20,000
S Lewis Garrard Rd	• Modify striping to double yellow to restrict passing EB from MP 30.700 to MP 30.075 and westbound from MP 29.900 to Garrard Road. • Install "No Passing" signage. • Add advanced intersection warning signage.	$10,000
T Lewis KY 57	• Add flashing yellow arrow for KY 9 left turn movements. • Add advanced intersection warning signage for KY 57 vehicles. • Adjust signal timing.	$25,000
U Lewis KY 59	• Add advanced warning signage. • Add Intersection Collision Warning System (ICWS) "Traffic Entering When Flashing" signs on KY 9 to alert drivers there is traffic present.	$35,000
W Greenup KY 7	• Add advanced intersection warning signage. • Add Intersection Collision Warning System (ICWS) "Traffic Entering When Flashing" signs on KY 10 to alert drivers there is traffic present. • Consider addition overhead lighting.	$40,000
X Greenup US 23	• Add backplates to signals. • Add dual red signal heads. • Improve signal timing. • Add fog warning signage.	$30,000
Y Carter KY 7 (North)	• Add stop bar on KY 7. • Add advance intersection warning signage. • Stripe a No Passing Zone through the intersection. Install "No Passing" signage. • Consider addition of overhead lighting.	$10.000

Table 21. Short-Term Projects (cont.)

	Improvement Description	Cost (2020 Dollars Including DRUC)
Z Carter KY 7 (South)	• Begin the EB truck climbing lane after the intersection and convert the existing climbing lane to EB left turn lane.	$10,000
AA Carter KY 1959	• Add advanced warning signage for the WB truck climbing lane drop. • Enhance median striping to help clarify the westbound truck climbing lane has ended and the WB left turn lane begins.	$10,000
AI Lewis Lions Ln	• Add a second SB lane on Lions Lane • Add "Do Not Block Intersection" signage	$65,000

Table 22. High Priority Projects

	Improvement Description	Cost (2020 Dollars Including DRUC)
J Mason US 62	• Narrow lane widths and add an extra lane in the EB, WB, and SB approaches so the signal phasing can be optimized for traffic. This includes a dedicated WB right turn and left turn for the EB and SB approaches. The NB did not warrant an extra lane. • Continue to monitor access control issues after intersection improvement, or consider converting entrances as right-in, right-out only.	$2,575,000
V Lewis KY 1306	• Add advanced warning signage. • Add dual stop signs on KY 1306 approaches. • Evaluate clear zone along the northern side of KY 10 between MP 11.800 and MP 11.900 and clear trees or add guardrail. • Add EB and WB left turn lanes to improve safety. • Consider addition of lighting.	$670,000
M Mason KY 11	• Construct dedicated EB right turn lane to improve safety and meet vehicular traffic (warranted for 2020 volumes). • Consider addition of a second NB left turn lane to improve operations and meet vehicular demand. • Improve signal timing / Add advanced warning signage. • This intersection is included in concept AB.	$995,000
I Mason Kenton Station Dr	• Construct WB right turn lane (warranted for 2020 volumes). • Evaluate and improve signal timing. • Widening the roadway and the reconstruction of the roadside ditch could result in significant impacts. This would need to be evaluated further with surveying. • Consider addition of overhead lighting.	$645,000
N Mason Knoweshaw Rd	• Construct EB right turn lane to improve safety. • Improve intersection signage. • Add stop bars on side street. • Consider addition of lighting.	$450,000
F Bracken KY 19	• Add advanced intersection warning signage. • Add oversized dual stop signs. • Offset KY 9 left turn lanes in the positive direction.	$320,000
P Mason KY 1449	• Add advanced intersection warning signage. • Construct right turn lanes and positive offsets for left turn lanes to improve safety.	$490,000

Table 23. Medium Priority Projects

	Improvement Description	Cost (2020 Dollars Including DRUC)
K Mason Walmart	• Widen KY 9 to allow for a landscaped median as an access management and traffic calming measure. • Construct right-in / right-out at Tucker Drive and Walmart Way. • Construct dual left turn lanes at Walmart Way. • Eliminate two field entrances, evaluate signal timing, and consider lighting.	$7,385,000
Q Mason Marathon	• Construct an EB left turn lane to improve safety. • Add stop bars to approaches.	$550,000
C Bracken KY 1019	• Add advanced intersection warning signage. • Offset KY 9 left turn lanes in the positive direction.	$540,000
B Bracken Iler Rd	• Add EB left turn lane (warranted based on 2045 volumes) and WB right turn lane to improve safety. • Add advanced intersection warning signage.	$945,000
O Mason Clarkson Sherman Rd	• Construct EB right turn lane and WB left turn lane to improve safety. • Add stop bars on approaches.	$525,000

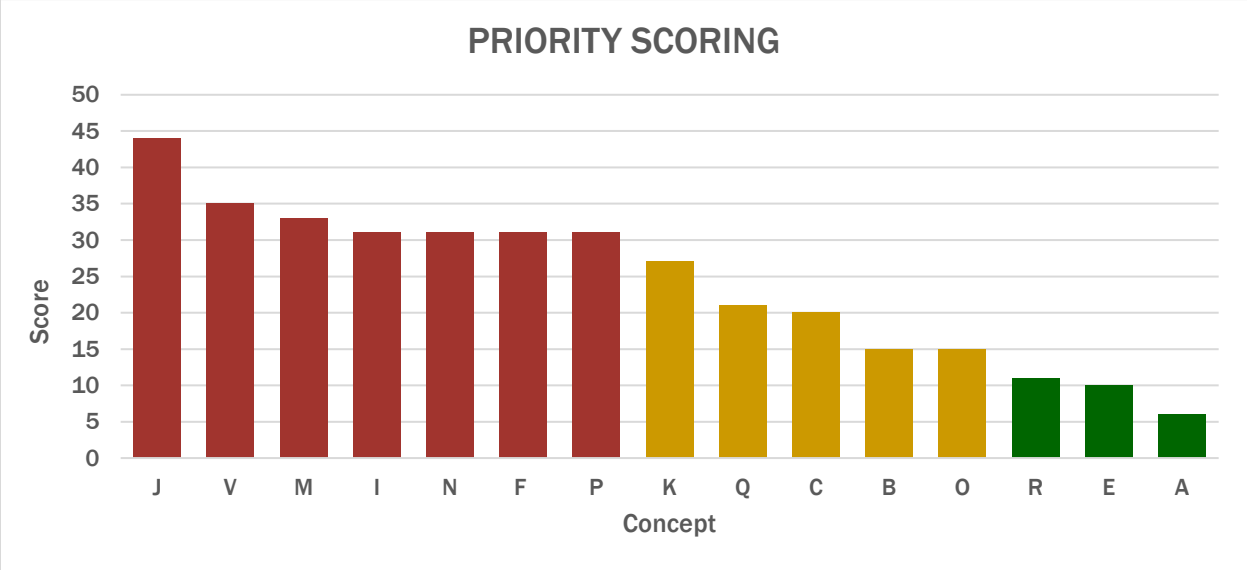
Table 24. Low Priority Projects

	Improvement Description	Cost (2020 Dollars Including DRUC)
R Mason KY 1234	• Concept 1 – Add hatch striping to clarify that there is no turn lane. • Concept 2 – Construct a WB left turn lane to improve safety. • Add advanced intersection warning signage.	Concept 1 - $15,000 Concept 2 - $315,000
E Bracken KY 875	• Improve SB approach guardrail radius. • Re-stripe EB truck climbing lane as EB and WB left turn lanes to improve safety. • Add advanced intersection warning signage.	$225,000
A Pendleton KY 159	• Concept 1 – Extend truck climbing lane to the west. • Concept 2 – End the truck climbing lane before the intersection and use the extra width as a WB left turn lane.	Concept 1 - $540,000 Concept 2 - $15,000

Table 25. Other Projects

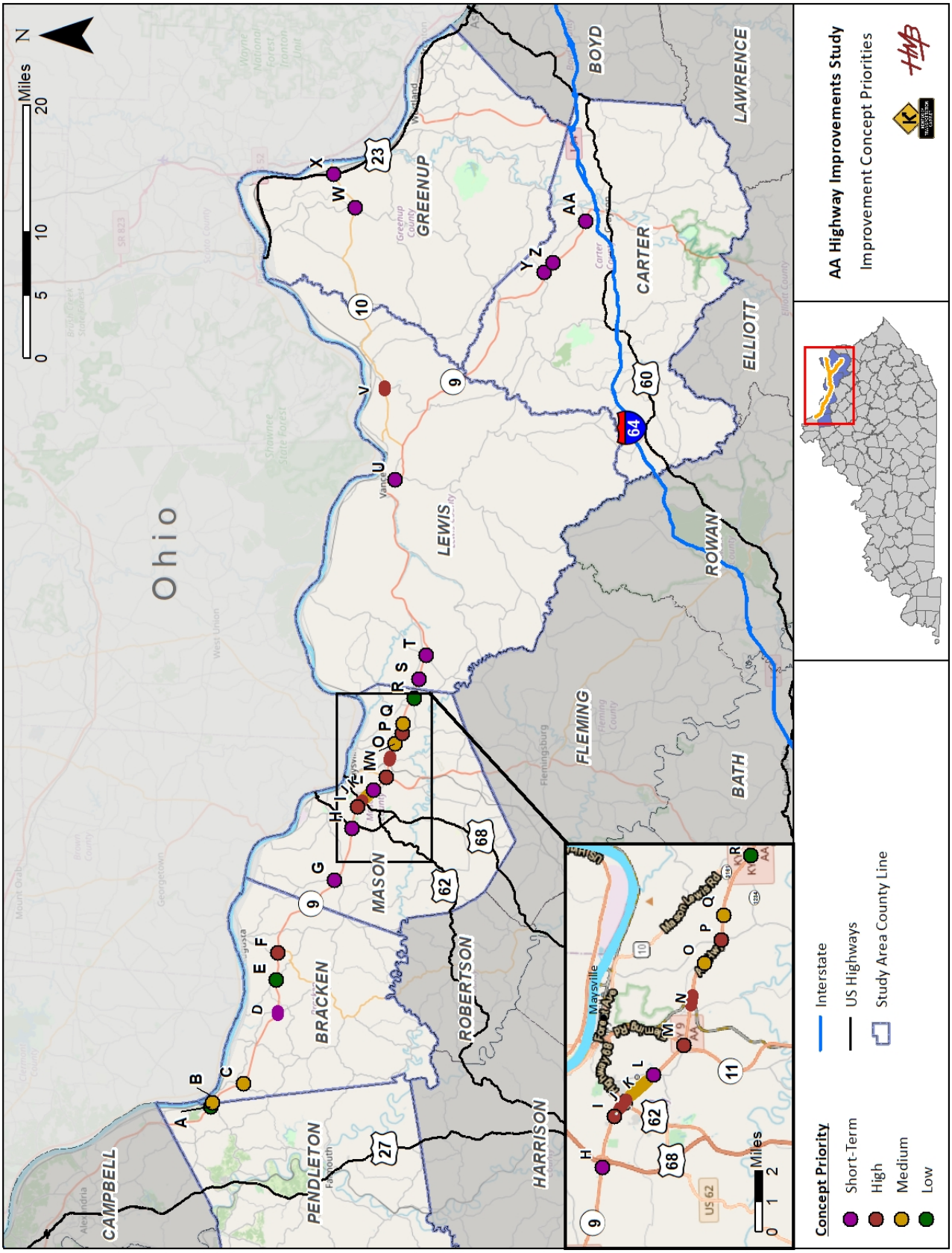
	Improvement Description	Cost (2020 Dollars Including DRUC)
AB Mason	• Reduce existing 55 mph speed limit to 45 mph along KY 9 between just east of KY 11 and just west of Downing Drive. Increase law enforcement or add traffic calming measures such as "Your Speed" signs, transverse rumble strips, painted warnings, speed tables, or other measures.	$15,000
AC All Counties	• Additional locations that had crashes potentially related to truck climbing lane issues and were not included in the intersection analysis are included in this corridor-wide improvement concept.	TBD
AD All Counties	• Identify, evaluate and prioritize routes needing pavement reconstruction or rehabilitation. • Replace 4" striping with 6" spray thermo striping in conjunction with pavement reconstruction or rehabilitation projects or as needed.	Re-paving: $630,000 average per mile Re-striping: $ 7,500 average per mile
AE Lewis / Greenup	• Evaluate side streets and install stop signs and stop bars. • Add advanced intersection warning signs. • For intersections with identified crashes or in curves, consider addition of flashing warning beacon. • Consider addition of street name to intersection warning signs.	$20,000
AF Carter	• Evaluate routes leading to / from KY 9 and Carter Caves State Resort Park. • Provide recommendations to navigation guidance for any proposed modifications.	TBD
AG Pendleton / Bracken / Mason	• Targeted enforcement of speeding with increased presence of police. • Increased use of portable speed monitors to reinforce speed limit.	TBD
AH Lewis	• Mitigate surface drainage issues throughout segment. • Improve friction surface issue by implementing high skid resistance surface or improve superelevation with milling / paving. • Add curve warning signage.	High Friction Surface Option: $330,000 Superelevation Correction Option: $530,000

Figure 24. Prioritization Scoring



Additional detail regarding each location and improvement concept is provided in the following summary sheets. An overview of location is provided in **Figure 25**.

Figure 25. Improvement Concept Priorities



LOCATION INFORMATION





KY 9 looking westbound

Features

- 3-Lane (WB Truck Climbing Lane)
- 12’ Lane Width
- 10’ Shoulder Width
- Lighting on Side Street
- 19.4% Truck Traffic
- T-Intersection

Issues

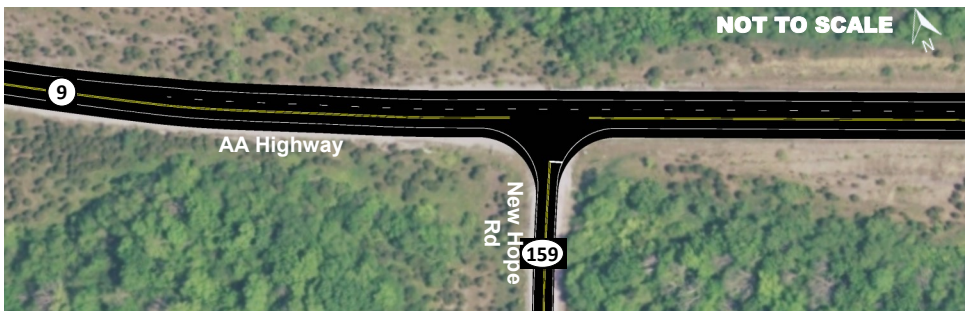
The westbound truck climbing lane ends near the intersection approximately 100’ west at MP 0.315, and there are no turn lanes. There were two comments associated with this spot by local officials and stakeholders mainly regarding a transition issue with the truck climbing lane.

IMPROVEMENT CONCEPT

Existing



Concept 1—Extend truck climbing lane to the west.



Concept 2—End the truck climbing lane before the intersection and use the extra width as a westbound left turn lane.



A

SPOT

PROJECT PRIORITY

Low

LOCATION

Pendleton County

KY 9 at KY 159 (New Hope Road)

MP 0.296

DATA

2020 AADT: 7,800
2045 AADT: 8,900
Crash Data:
CRF: N/A
Crashes: 5
CHAF ID: IP20080380
Improve Intersection (Unsponsored)

DESCRIPTION

Improve intersection by modifying truck climbing lane, adding a turn lane, and improving intersection awareness.

COST ESTIMATE

2020 Dollars

Concept 1:

Design: $70,000
ROW: $10,000
Utilities: $0
Const.: $460,000
Total: $540,000

Concept 2:

Design: $5,000
ROW: $ N/A
Utilities: $ N/A
Const.: $10,000
Total: $15,000

LOCATION INFORMATION



Features

- 3-Lane (WB Truck Climbing Lane)
- 12’ Lane Width
- 11’ Shoulder Width
- Lighting on Side Street
- 19.4% Truck Traffic
- T-Intersection
- KYTC is Acquiring Iler Road



KY 9 looking northbound Iler Rd

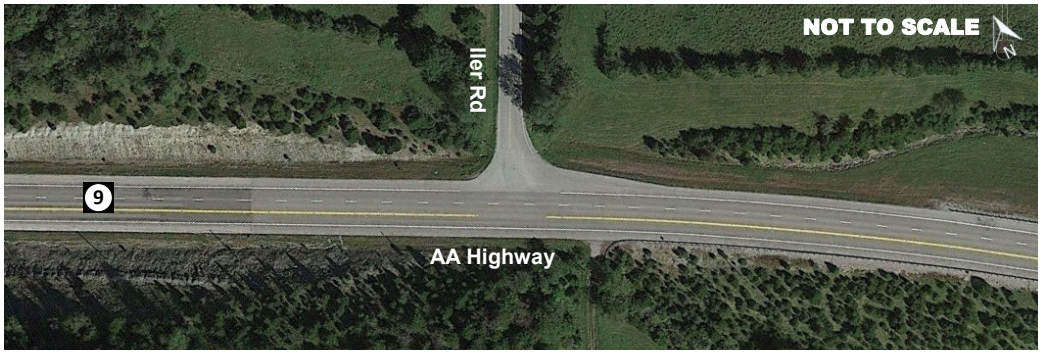
Issues

The westbound truck climbing lane ends near the intersection approximately 2000’ west at MP 0.315 (Pendleton County), and there are no turn lanes. Iler Road sees heavy truck use due to the Bulk Transit Corporation being at the northern intersection of Iler Road at KY 8. There were three injury crashes (43%). There were two comments associated with this spot by local officials and stakeholders regarding the need for turn lanes and that this is a major traffic generator.

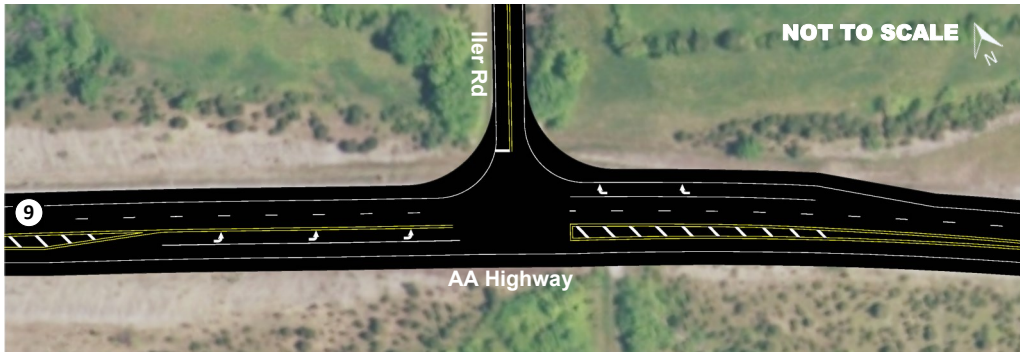
IMPROVEMENT CONCEPT

- Add eastbound left turn lane (warranted based on 2045 volumes) and westbound right turn lane to improve safety.
- Add advanced intersection warning signage.

Existing



Proposed



B

SPOT

PROJECT PRIORITY

Medium

LOCATION

Bracken County

KY 9 at Iler Road

MP 19.804

DATA

2020 AADT: 7,300
2045 AADT: 8,200
Crash Data:
CRF: N/A
Crashes: 7
CHAF ID: IP20190008
Improve Intersection (Unsponsored)

DESCRIPTION

Improve intersection by adding turn lanes and improving intersection awareness.

COST ESTIMATE

2020 Dollars

Design: $85,000
ROW: $10,000
Utilities: $0
Const.: $850,000
Total: $945,000

LOCATION INFORMATION



Features

- 3-Lane (EB Truck Climbing Lane)
- 12’ Lane Width
- 11’ Shoulder Width
- Lighting on Side Streets
- 19.4% Truck Traffic



KY 1019 looking westbound

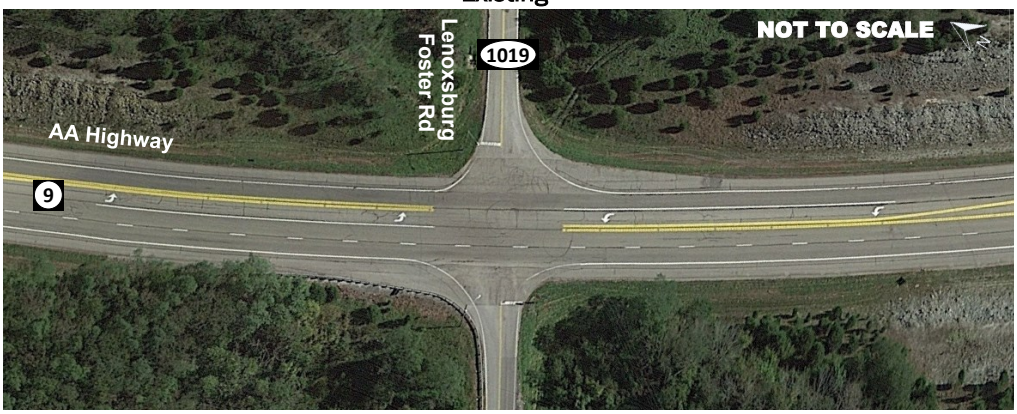
Issues

The eastbound truck climbing lane ends near the intersection approximately 750’ east at MP 16.715. There were five injury (100%) and four angle (80%) crashes.

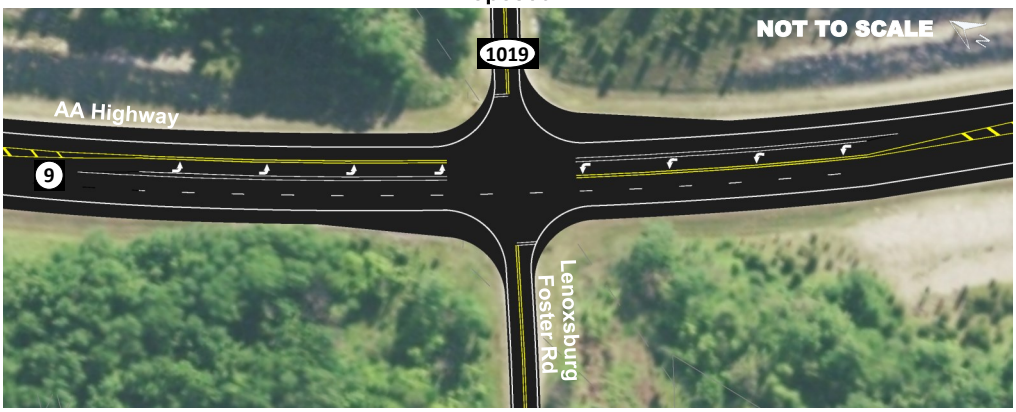
IMPROVEMENT CONCEPT

- Add advanced intersection warning signage.
- Offset KY 9 left turn lanes in the positive direction.

Existing



Proposed



C

SPOT

PROJECT PRIORITY

Medium

LOCATION

Bracken County

KY 9 at KY 1019—Lenoxsburg Foster Road

MP 16.856

DATA

2020 AADT: 7,300
2045 AADT: 8,200
Crash Data:
CRF: 1.18
Crashes: 5
CHAF ID: IP20080279

DESCRIPTION

Improve intersection by modifying the turn lanes and improving intersection awareness.

COST ESTIMATE

2020 Dollars

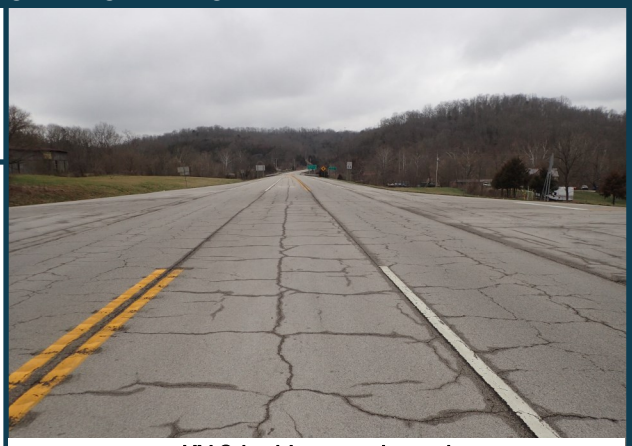
Design: $45,000
ROW: $10,000
Utilities: $55,000
Const.: $430,000
Total: $540,000

LOCATION INFORMATION



Features

- 2-Lane
- 12’ Lane Width
- 11’ Shoulder Width
- Lighting on Side Streets
- 19.4% Truck Traffic
- No-Passing Zone
- Bridge over Goose Creek—MP 10.400



KY 9 looking westbound

Issues

There were nine wet/snow/ice crashes (69%). There are no bridge drains present according to plan archives which may be causing excess water on bridge and roadway.

IMPROVEMENT CONCEPT

- Add advance intersection warning signage.
- Add advance bridge warning and “Bridge Ices Before Road” signage.
- Add drains to bridge.

Existing



D

SEGMENT

PROJECT PRIORITY

Short-term

LOCATION

Bracken County

KY 9

MP 10.259—10.559 (Intersects KY 1159 MP 7.795)

DATA

2020 AADT: 5,500—6,400
2045 AADT: 6,300—7,300
Crash Data:
CRF: 1.77
Crashes: 13
CHAF ID: N/A

DESCRIPTION

Improve KY 9 between MP 10.259 to MP 10.559 by improving bridge drainage, bridge signing, and intersection awareness.

COST ESTIMATE

2020 Dollars

Design: $5,000
ROW: $ N/A
Utilities: $ N/A
Const.: $7,500
Total: $12,500

LOCATION INFORMATION



Features

- 3-Lane (EB Truck Climbing Lane)
- 12’ Lane Width
- 11’ Shoulder Width
- Lighting on Side Streets
- 19.4% Truck Traffic



KY 9 looking westbound

Issues

The eastbound truck climbing lane ends near the intersection approximately 1060’ east at MP 7.550. There were three angle crashes (100%). There are no turn lanes, and the guardrail radii along the southbound leg of the intersection is tight for trucks when turning. There were two comments associated with this spot by local officials and stakeholders regarding the need for turn lanes and there being a tight guardrail radius.

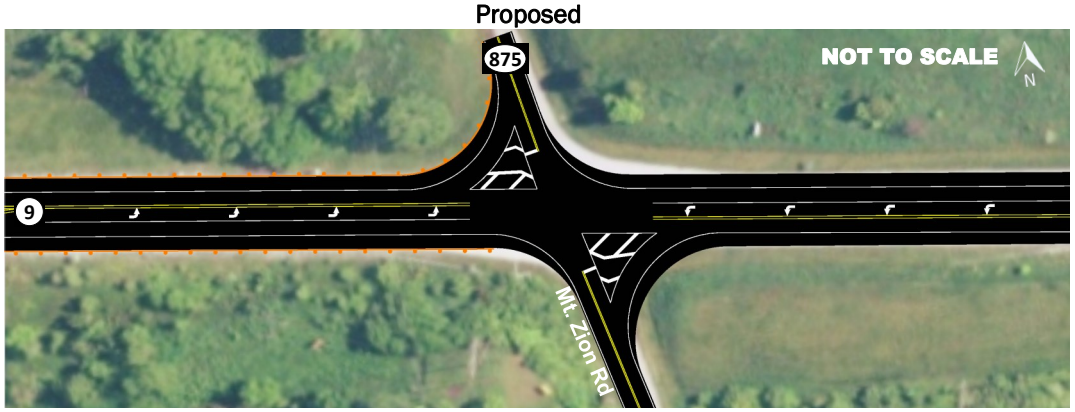
IMPROVEMENT CONCEPT

- Improve southbound approach guardrail radius.
- Re-stripe eastbound truck climbing lane as eastbound and westbound left turn lanes to improve safety.
- Add advanced intersection warning signage.

Existing



Proposed



E

SPOT

PROJECT PRIORITY

Low

LOCATION

Bracken County

KY 9 at KY 875—Mt. Zion Road

MP 7.751

DATA

2020 AADT: 5,500
2045 AADT: 6,300
Crash Data:
CRF: N/A
Crashes: 3
CHAF ID: IP20150014
Improve Intersection (Unsponsored)

DESCRIPTION

Improve intersection by adding turn lanes and improving guardrail, striping, and intersection awareness.

COST ESTIMATE

2020 Dollars

Design: $10,000
ROW: $10,000
Utilities: $85,000
Const.: $120,000
Total: $225,000

LOCATION INFORMATION



Features

- 2-Lane
- 12’ Lane Width
- 11’ Shoulder Width
- Lighting on Side Streets
- 19.4% Truck Traffic
- Park and Pool Location
- Overhead Caution Lights



KY 19 looking southbound

Issues

There were six angle (50%) and four injury (33%) crashes.

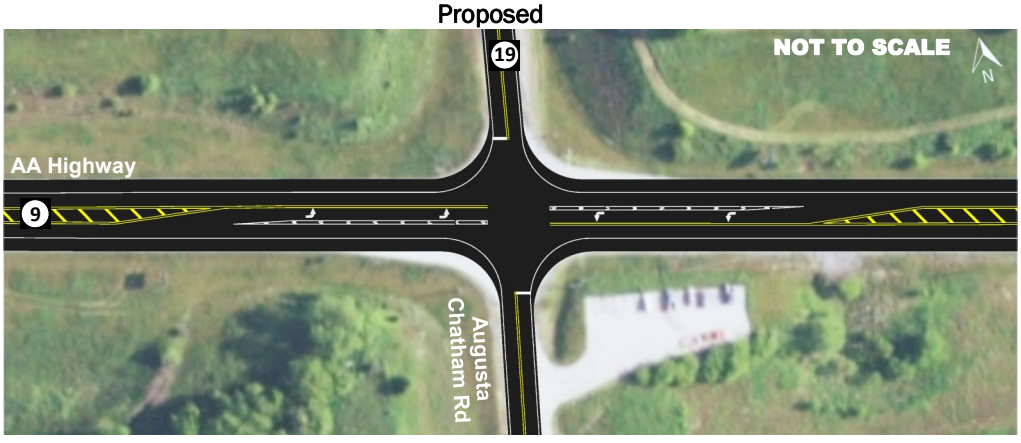
IMPROVEMENT CONCEPT

- Add advanced intersection warning signage.
- Add oversized dual stop signs.
- Offset KY 9 left turn lanes in the positive direction.

Existing



Proposed



F

SPOT

PROJECT PRIORITY

High

LOCATION

Bracken County

KY 9 at KY 19—Augusta Chatham Road

MP 5.546

DATA

2020 AADT: 5,500—6,200
2045 AADT: 6,300—7,100
Crash Data:
CRF: 2.03
Crashes: 12
CHAF ID: N/A

DESCRIPTION

Improve intersection by modifying the turn lanes and improving intersection awareness.

COST ESTIMATE

2020 Dollars

Design: $30,000
ROW: $10,000
Utilities: $ N/A
Const.: $280,000
Total: $320,000

LOCATION INFORMATION



Features

- 4-Lane
- 12’ Lane Width
- 10’ Shoulder Width
- 14’ Flush Median
- Lighting on Side Streets
- 10.6% Truck Traffic
- Recently Reconstructed as Part of a Widening Project Ending in 2018.



KY 9 looking westbound

Issues

This roadway section was recently reconstructed to a four-lane. In evaluation of the post-construction crashes, there is still an interpolated high CRF for this intersection. There were 4 crashes in the post-construction period between Sept. 2017 and Oct. 2019. Three were wet/ snow/ice (75%). All crashes occurred in the eastbound direction.

IMPROVEMENT CONCEPT

- Add wet roadway condition warning signs.
- Evaluate drainage further at this intersection. Surveying will be required to determine areas that need to be addressed further.
- Add open graded high skid-resistance overlay.

Existing



G

SPOT

PROJECT PRIORITY

Short-term

LOCATION

Mason County

KY 9 at KY 435

MP 17.049

DATA

2020 AADT: 5,800—6,400

2045 AADT: 6,600—7,300

Crash Data:

CRF: 1.30

Crashes: 4 (post-construction)

CHAF ID: N/A

DESCRIPTION

Improve intersection by evaluating drainage, adding signage, and increasing surface friction.

COST ESTIMATE

2020 Dollars

Design: $25,000

ROW: $ N/A

Utilities: $ N/A

Const.: $60,000

Total: $85,000

LOCATION INFORMATION



Features

- 4-Lane
- 12’ Lane Width
- 10’ Shoulder Width
- 14’ Flush Median
- Urban / Rural Location
- Lighting on Side Streets and High-Mast Interchange Lighting.
- 10.6% Truck Traffic
- Dual Red Signal Heads



KY 9 looking westbound

Issues

This intersection has high turning movement volumes compared to the mainline due to being a US 68 ramp and an entrance to the WM. R. Shugars Commerce Park. There were eight rear end (62%) and four angle (31%) crashes. The southbound through movement currently operates with a delay of 58 seconds and a Level of Service (LOS) E.

IMPROVEMENT CONCEPT

- Evaluate and improve signal timing and phasing.
- Add advance intersection signage.
- This intersection is included in concept AB which lowers the speed limit to 45 mph just west of this intersection.

Existing



H

SPOT

PROJECT PRIORITY

Short-term

LOCATION

Mason County

KY 9 at Downing Drive

MP 12.620

DATA

2020 AADT: 9,200
2045 AADT: 10,400
Crash Data:
CRF: 1.76
Crashes: 13
CHAF ID: N/A

DESCRIPTION

Improve intersection by improving signal timing and intersection awareness.

COST ESTIMATE

2020 Dollars

Design: $5,000
ROW: $ N/A
Utilities: $ N/A
Const.: $5,000
Total: $10,000

LOCATION INFORMATION



Features

- 4-Lane
- 12’ Lane Width
- 2’ Shoulder Width
- 14’ Continuous Left Turn Lane
- Urban Area
- Lighting On Side Street
- 13.7% Truck Traffic
- Culvert over Lawrence Creek — MP 10.830



Kenton Station Drive looking southbound

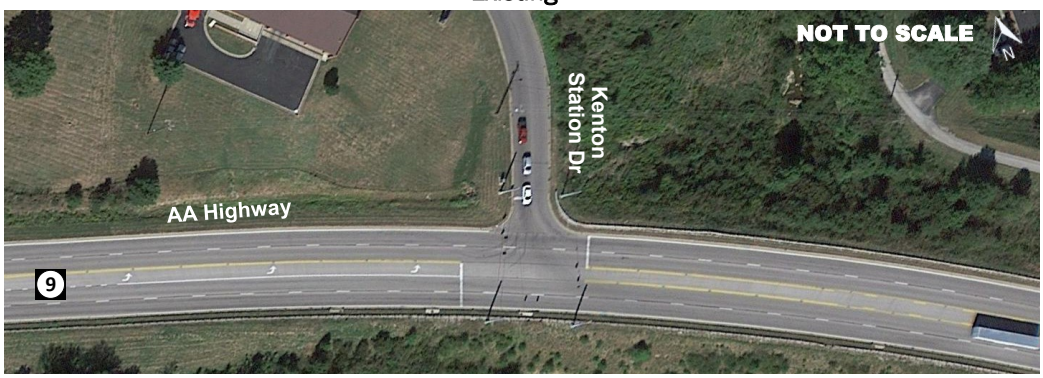
Issues

There were nine rear end (47%) six injury or fatality crashes (32%). There was an angle manner fatality. There is no westbound right turn lane. The southbound left turn operates with a delay of 64 seconds and LOS E. There were three comments associated with this spot by local officials and stakeholders regarding the need for a westbound right turn lane into Kenton Station Drive and issues related to intersection awareness and traffic queuing. It is the entrance to critical facilities such as the regional hospital, fire station, and other medical buildings.

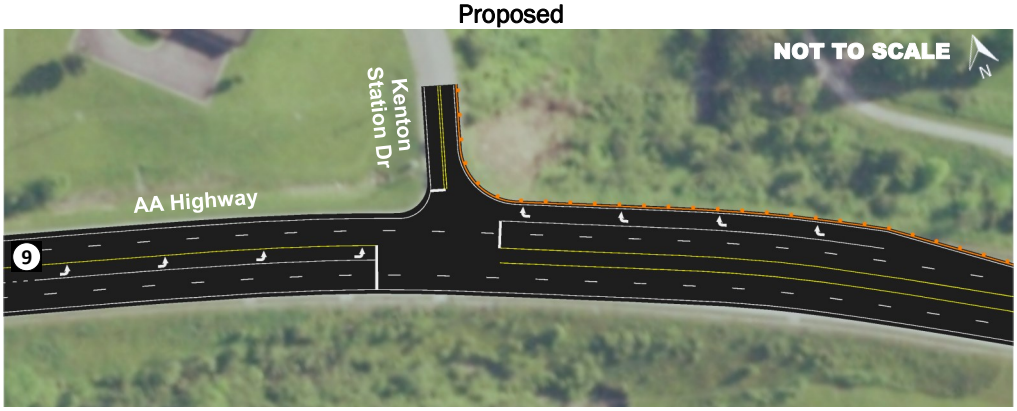
IMPROVEMENT CONCEPT

- Construct westbound right turn lane for Kenton Station Drive. (Warranted for 2020 volumes)
- Evaluate and improve signal timing.
- Improve intersection awareness through the use of advanced signing.
- Widening the roadway and the reconstruction of the roadside ditch could result in significant impacts. This would need to be evaluated further with surveying.
- Consider addition of overhead lighting.
- This intersection is included in concept AB which would lower the speed limit to 45 mph.

Existing



Proposed



I

SPOT

PROJECT PRIORITY

High

LOCATION

Mason County

KY 9 at Kenton Station Drive

MP 10.861

DATA

2020 AADT: 12,400
2045 AADT: 14,100
Crash Data:
CRF: 1.16
Crashes: 19
CHAF ID: IP20160298
Construct Right Turn Lane (Sponsored, 31.8 Score)

DESCRIPTION

Add a westbound right turn lane. Improve intersection signal timing, awareness and lighting.

COST ESTIMATE

2020 Dollars

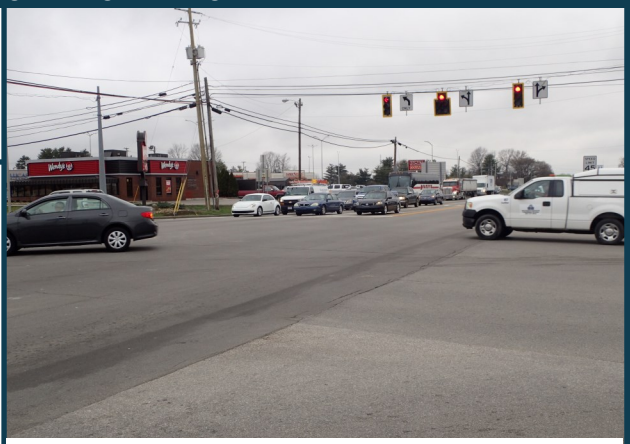
Design: $70,000
ROW: $5,000
Utilities: $110,000
Const.: $460,000
Total: $645,000

LOCATION INFORMATION



Features

- 4-Lane
- 12’ Lane Width
- 1’-2’ Shoulder Width
- 14’ Continuous Left Turn Lane
- 45 mph Speed Limit
- Urban Area
- Lighting on Side Streets
- 13.7% — 14.2% Truck Traffic



KY 9 looking westbound

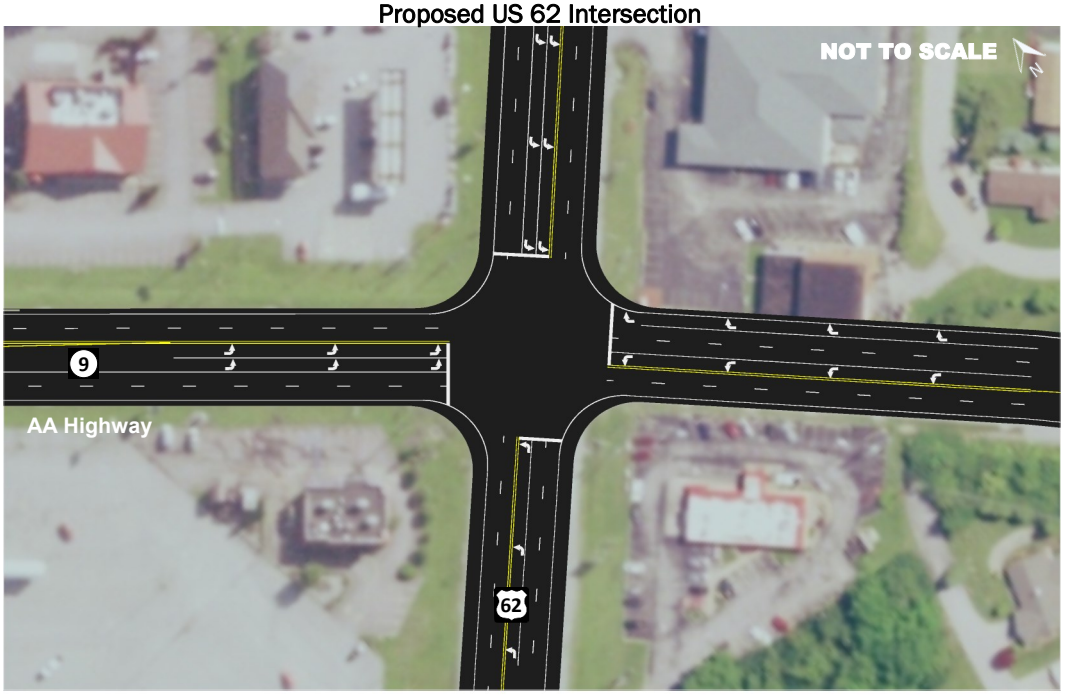
Issues

The intersection with US 62 has congestion due to the limited space for adequate lane configuration and corresponding signal phasing. It operates with an overall delay of 79 seconds and LOS E, and reaches as high as 114 seconds delay and LOS F (westbound through). Most of the crashes that have occurred at the intersection along this segment have been rear ends (32), but a significant amount of sideswipes (11) have occurred as well. There have been mostly angle collisions along the eastbound approach (24). There are four access locations along the eastbound approach that may be contributing to these crashes. There is an item number (9-80107.00) for the intersection of US 62 which involves adding turn lanes.

IMPROVEMENT CONCEPT

- Narrow lane widths and add an extra lane in the eastbound, westbound, and southbound approaches so that the signal phasing can be optimized for the amount of traffic. This includes a dedicated westbound right turn and dedicated left turns for the eastbound and southbound approaches. The northbound did not warrant an extra lane.
- Continue to monitor access control issues after intersection improvement, or consider converting entrances as right-in, right-out only.

Proposed US 62 Intersection



J

SEGMENT

PROJECT PRIORITY

High

LOCATION

Mason County

KY 9

MP 10.180—10.567 (Intersects US 62 MP 10.256)

DATA

2020 AADT: 13,400—13,900
2045 AADT: 15,200—15,800
Crash Data:
CRF: 2.85—3.89
Crashes: 112
CHAF ID: IP20170079
Improve Intersection (Sponsored—75.6 Score)

DESCRIPTION

Mitigate high volume of crashes at the intersection, approaches, and eastbound approach access points at KY 9 and US 62 through the addition / modification of turn lanes.

COST ESTIMATE

2020 Dollars

Design: $180,000
ROW: $525,000
Utilities: $95,000
Const.: $1,775,000
Total: $2,575,000

LOCATION INFORMATION



Features

- 4-Lane
- 12’ Lane Width
- 10’ Shoulder Width
- 15’ Mountable Median
- 45 mph Speed Limit
- Urban Area
- Lighting on Side Streets
- 14.2% Truck Traffic



Market Square Drive looking northbound

Issues

Most of the crashes along this section of KY 9 which includes the intersections of Market Square Drive, Tucker Drive, and both Walmart Way Entrances were rear ends (30—55%) and angle crashes (14—25%). Future development plans may increase safety issues in this area if they are not addressed. The northbound lefts at Tucker Drive, and both the signalized and unsignalized Walmart way entrances have poor delays and LOS—Respectively: 41 sec / E in 2020 and 69 sec /F in 2045, 61 sec / E in 2045, and 39 sec / E in 2020 and 52 sec / F in 2045. There was one comment associated with this segment by local officials / stakeholders regarding future planned development.

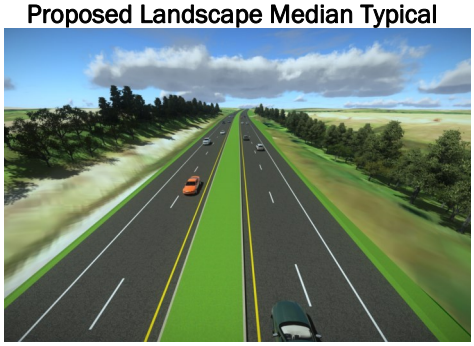
IMPROVEMENT CONCEPT

- Widen KY 9 to allow for a landscaped median through this four lane section as an access management and traffic calming measure.
    - This improvement would extend past this segment, through the intersection of KY 1448, and end approximately 0.5 mile east to include potential future development entrances.
- Construct a right-in, right-out approach at the unsignalized intersections of Tucker Drive and Walmart Way. Construct positive separation to deter vehicles from making left turns at these locations.
- Construct dual left turn lanes at the signalized intersection with Walmart Way.
- Eliminate two field entrances at the Walmart Way intersections.
- Evaluate and improve signal timing.
- Consider adding overhead street lighting where necessary.

Proposed (Full Length Landscape Median and Right-In, Right-Outs)



Proposed Landscape Median Typical



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K

SEGMENT

PROJECT PRIORITY

Medium

LOCATION

Mason County

KY 9

MP 9.250-10.000

DATA

2020 AADT: 13,400
2045 AADT: 15,200
Crash Data:
CRF: 0.90—1.52
Crashes: 55
CHAF ID: N/A

DESCRIPTION

Mitigate the high volume of crashes occurring at Market Square Dr., Tucker Dr., and Walmart Way entrances with a landscaped median and modifications to access.

COST ESTIMATE

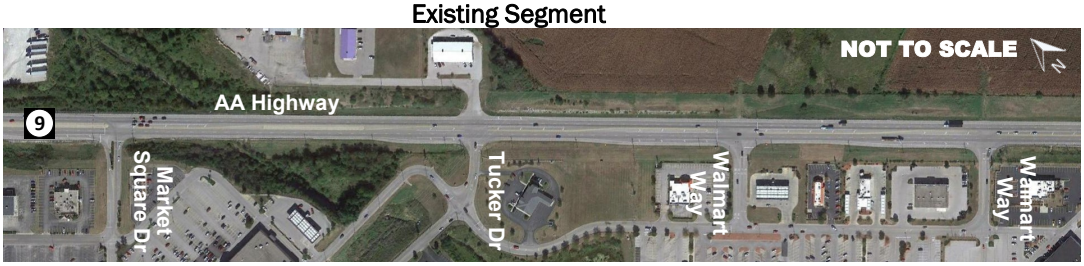
2020 Dollars

Design: $875,000
ROW: $350,000*
Utilities: $325,000
Const.: $5,835,000
Total: $7,385,000

*ROW Note: ROW Cost is subject to considerable variability based on the field entrance closings.

IMPROVEMENT CONCEPTS

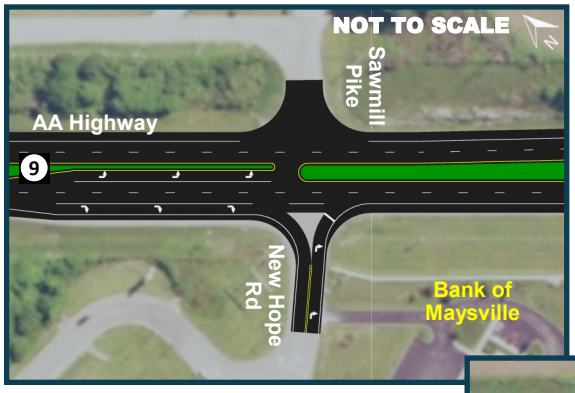
Existing Segment



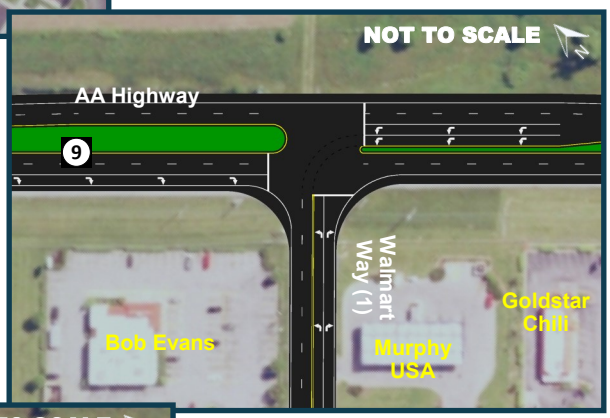
Proposed Segment



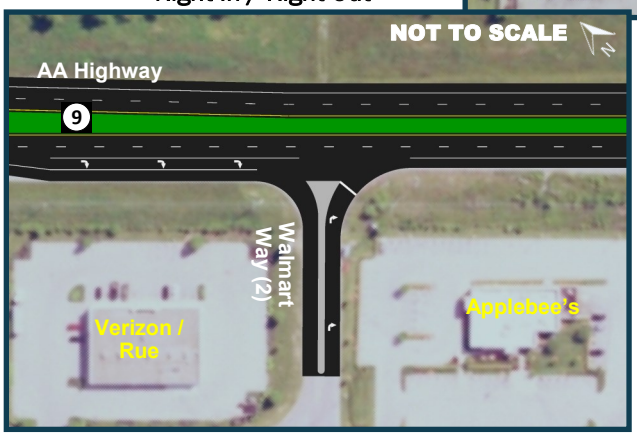
Proposed Tucker Drive Right-In / Righ-Out



Proposed Walmart Way 1
Dual Westbound Left Turns



Proposed Walmart Way 2
Right-In / Right-Out



K
CONTINUED

SEGMENT

PROJECT PRIORITY

Medium

LOCATION

Mason County
KY 9
MP 9.250-10.000

DATA

2020 AADT: 13,400
2045 AADT: 15,200
Crash Data:
CRF: 0.90—1.52
Crashes: 55
CHAF ID: N/A

DESCRIPTION

Mitigate the high volume of crashes occurring at Market Square Dr., Tucker Dr., and Walmart Way entrances with a landscaped median and modifications to access.

COST ESTIMATE

2020 Dollars

Design: $875,000
ROW: $350,000*
Utilities: $325,000
Const.: $5,835,000
Total: $7,385,000

*ROW Note: ROW Cost is subject to considerable variability based on the field entrance closings.

LOCATION INFORMATION





KY 9 looking westbound

Features

- 4-Lane
- 12’ Lane Width
- 10’ Shoulder Width
- 15’ Mountable Median
- Urban Area
- Lighting on Side Streets
- 14.2% Truck Traffic

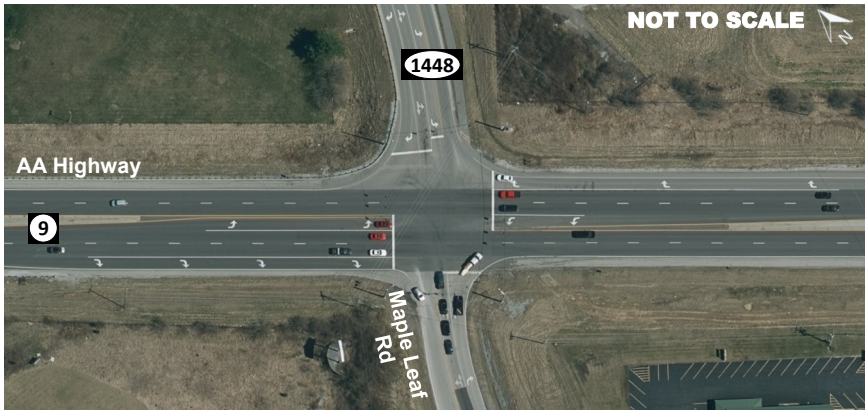
Issues

Most of the crashes at the intersection were rear ends (23—72%). Further evaluation of crash reports showed that red-light running due to driver inattention was the leading cause of crashes.

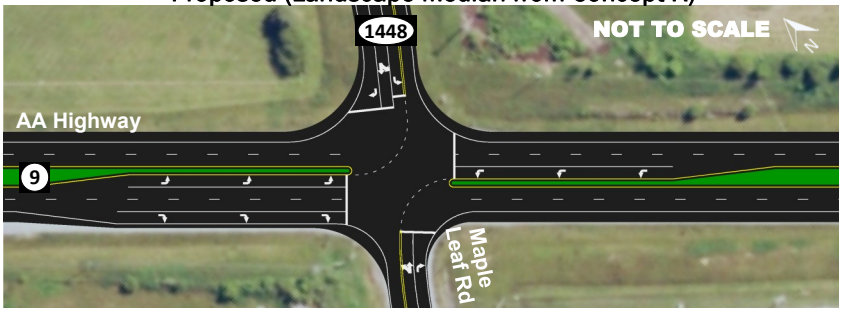
IMPROVEMENT CONCEPT

- The widening improvement for concept K extends through this intersection.
- Add advanced intersection warning signage.
- This intersection is included in concept AB which would lower the speed limit to 45 mph.
- Add dual red signal heads.

Existing



Proposed (Landscape Median from Concept K)



L

SPOT

PROJECT PRIORITY

Short-term

LOCATION

Mason County

KY 9 at 1448—Maple Leaf Road

MP 8.969

DATA

2020 AADT: 12,000—13,400

2045 AADT: 13,600—15,200

Crash Data:

CRF: 2.08

Crashes: 32

CHAF ID: N/A

DESCRIPTION

Improve intersection by improving intersection awareness, optimizing signal timing, and re-striping.

COST ESTIMATE

2020 Dollars

Design: $5,000

ROW: $ N/A

Utilities: $ N/A

Const.: $15,000

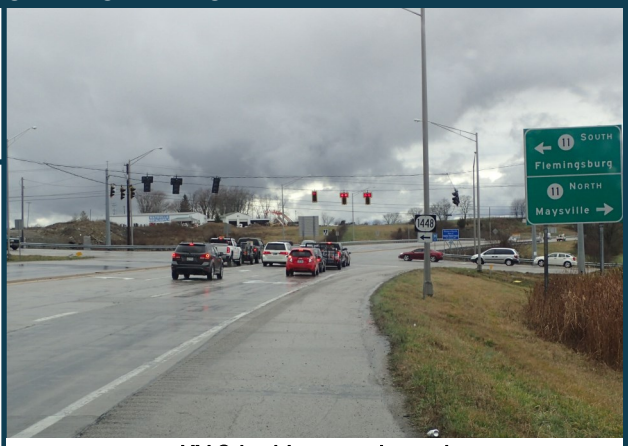
Total: $20,000

LOCATION INFORMATION



Features

- 4-Lane
- 12’ Lane Width
- 10’ Shoulder Width
- 15’ Mountable Median
- Urban Area
- Lighting on Side Streets
- 13.4% — 14.2% Truck Traffic



KY 9 looking westbound

Issues

Most of the crashes at the intersection were rear ends (22—58%) and angle crashes (8—21%). There is a heavy amount of peak-hour eastbound right turns (270—20%), but it is only a shared through/right turn lane. The intersection is operating at an overall delay of 49 seconds / LOS D. The eastbound left and northbound left still operate at a LOS E in 2045 after optimizing signal timing.

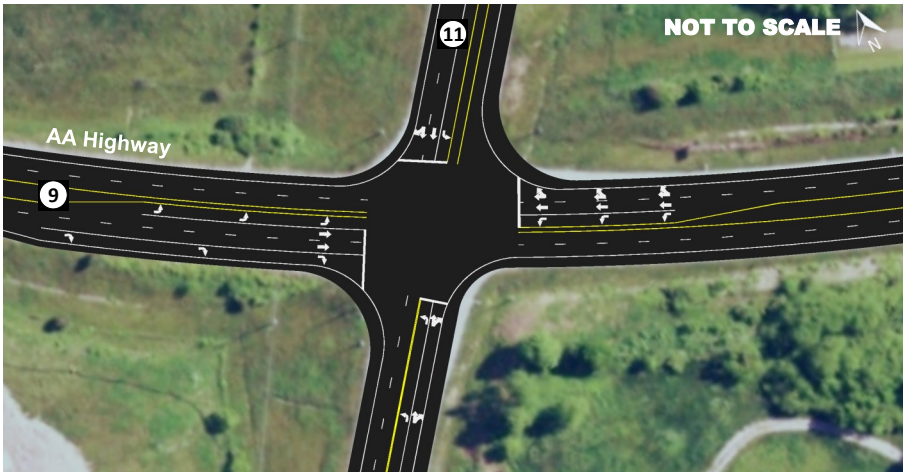
IMPROVEMENT CONCEPT

- Construct dedicated eastbound right turn lane to improve safety and meet vehicular traffic. (Warranted for 2020 volumes)
- Consider the addition of a second northbound left turn lane to improve operations and meet vehicular demand.
- Improve signal timing.
- This intersection is included in concept AB which would lower the speed limit to 45 mph.
- Add advanced intersection warning signage.

Existing



Proposed



M

SPOT

PROJECT PRIORITY

High

LOCATION

Mason County

KY 9 at KY 11

MP 7.560

DATA

2020 AADT: 8,200—12,000

2045 AADT: 9,300—13,600

Crash Data:

CRF: 2.83

Crashes: 38

CHAF ID: N/A

DESCRIPTION

Improve intersection by adding a right turn lane, improving signal timing, and intersection awareness.

COST ESTIMATE

2020 Dollars

Design: $65,000

ROW: $10,000

Utilities: $550,000

Const.: $370,000

Total: $995,000

LOCATION INFORMATION



Features

- 2-Lane
- 12’ Lane Width
- 10’ Shoulder Width
- No Lighting
- 13.4% Truck Traffic
- Railroad Bridge—MP 6.210



KY 9 looking westbound

Issues

Many of the crashes were rear ends (6—50%). There are no painted stop bars at the side-street approaches and no turn lanes. There is an entrance to a field by MP 6.032 that has crashes associated with it.

IMPROVEMENT CONCEPT

- Construct eastbound right turn lane to improve safety.
- Improve intersection signage.
- Add stop bars on side street.
- Consider addition of lighting.

Existing



Proposed (Eastbound Right Turn)



N

SEGMENT

PROJECT PRIORITY

High

LOCATION

Mason County
KY 9
MP 5.900—6.230
(Intersects Knoweshaw Road MP 5.931)

DATA

2020 AADT: 8,200
2045 AADT: 9,300
Crash Data:
CRF: 1.02–1.36
Crashes: 12
CHAF ID: N/A

DESCRIPTION

Improve intersection by improving intersection awareness, adding a turn lane, and adding stop bars.

COST ESTIMATE

2020 Dollars

Design: $50,000
ROW: $ N/A
Utilities: $100,000
Const.: $300,000
Total: $450,000

LOCATION INFORMATION



Features

- 2-Lane
- 12’ Lane Width
- 10’ Shoulder Width
- No Lighting
- 13.4% Truck Traffic



KY 9 looking westbound

Issues

There are no turn lanes for trucks accessing a landfill on Clarkson Sherman Road. There are no stop bars on the Clarkson Sherman Road approaches. There was one comment associated with this spot by local officials and stakeholders regarding the need for turn lanes to accommodate landfill truck traffic. Traffic counts were conducted at this intersection to evaluate the need for turn lanes into the landfill.

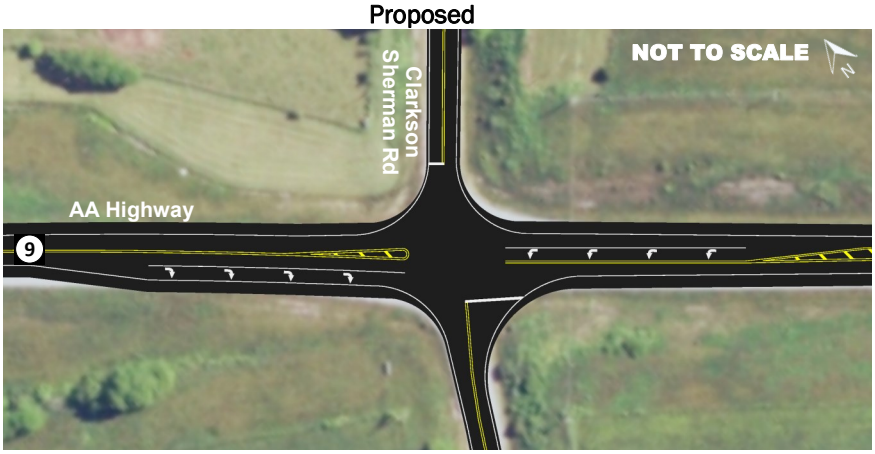
IMPROVEMENT CONCEPT

- Construct eastbound right turn lane and westbound left turn lane to improve safety.
- Add stop bars at approaches.

Existing



Proposed



O

SPOT

PROJECT PRIORITY

Medium

LOCATION

Mason County

KY 9 at Clarkson Sherman Road

MP 4.740

DATA

2020 AADT: 8,200
2045 AADT: 9,300
Crash Data:
CRF: N/A
Crashes: 2
CHAF ID: IP 20150186
Construct Right Turn Lane (Sponsored, 40.0 Score)

DESCRIPTION

Improve intersection by adding turn lanes and stop bars, and improving intersection awareness.

COST ESTIMATE

2020 Dollars

Design: $60,000
ROW: $ N/A
Utilities: $0
Const.: $465,000
Total: $525,000

LOCATION INFORMATION



Features

- 2-Lane
- 12’ Lane Width
- 10’ Shoulder Width
- Lighting on Side Streets
- 13.4% Truck Traffic



KY 9 looking westbound

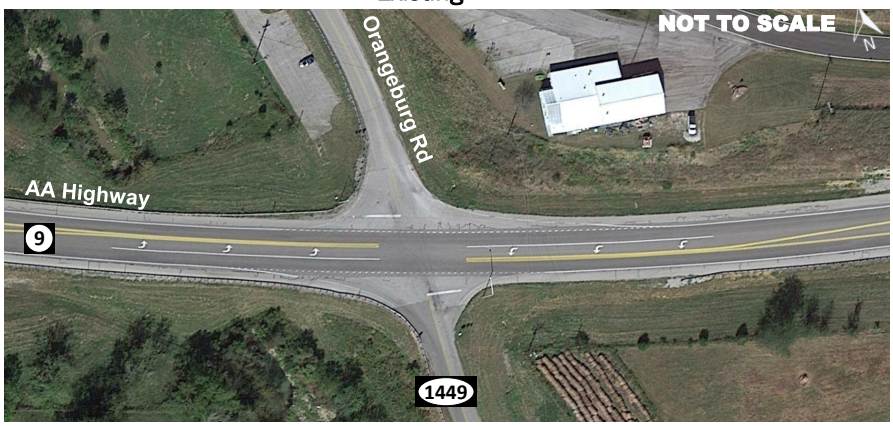
Issues

Six crashes were injury or fatality (55%) with the fatality being a rear end manner of collision. Four were angle manner of collision crashes (36%).

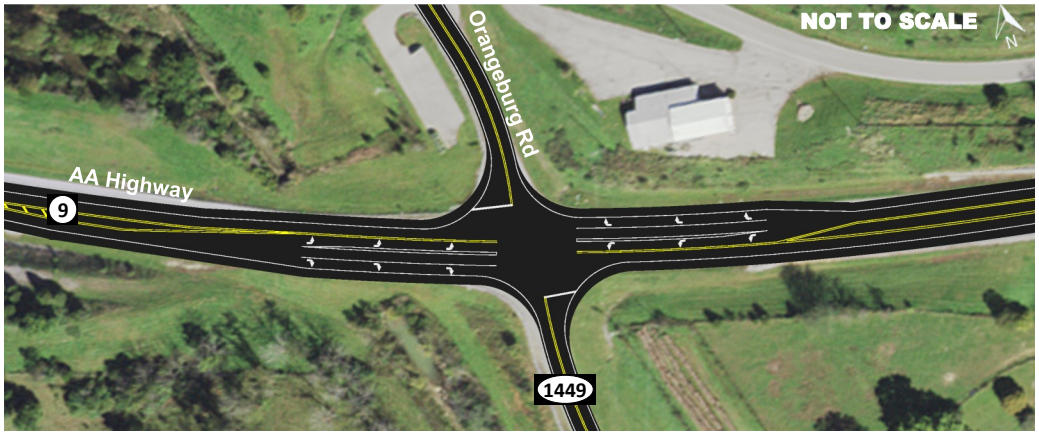
IMPROVEMENT CONCEPT

- Add advanced intersection warning signs.
- Construct right turn lanes and positive offsets for left turn lanes to improve safety.

Existing



Proposed



P

SPOT

PROJECT PRIORITY

High

LOCATION

Mason County

KY 9 at KY 1449—Orangeburg Road

MP 3.781

DATA

2020 AADT: 6,100
2045 AADT: 6,900
Crash Data:
CRF: 1.58
Crashes: 11
CHAF ID: N/A

DESCRIPTION

Improve intersection by adding turn lanes and improving intersection awareness.

COST ESTIMATE

2020 Dollars

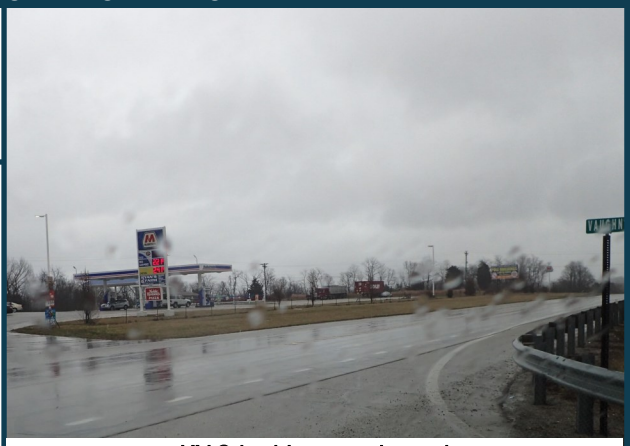
Design: $45,000
ROW: $ N/A
Utilities: $0
Const.: $445,000
Total: $490,000

LOCATION INFORMATION



Features

- 2-Lane
- 12’ Lane Width
- 10’ Shoulder Width
- No Lighting
- 13.4% Truck Traffic



KY 9 looking westbound

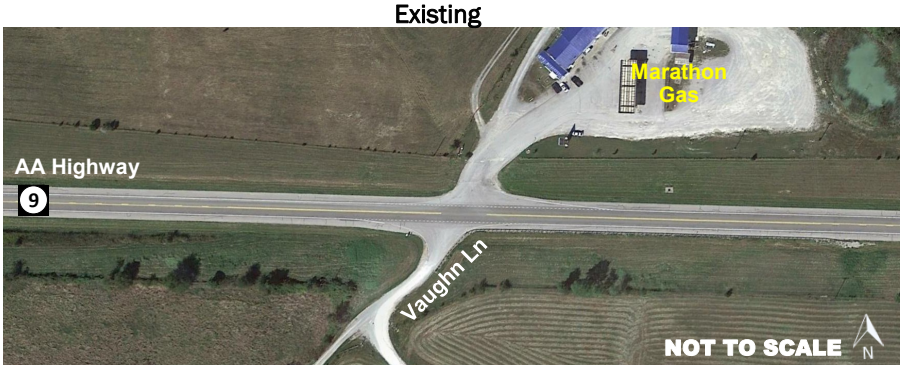
Issues

Most of the crashes are rear end collisions (71%) and many were injury crashes (4—57%). There are no stop bars on the side streets. There was one comment associated with this spot by local officials and stakeholders regarding an issue with the edge line paint in this area.

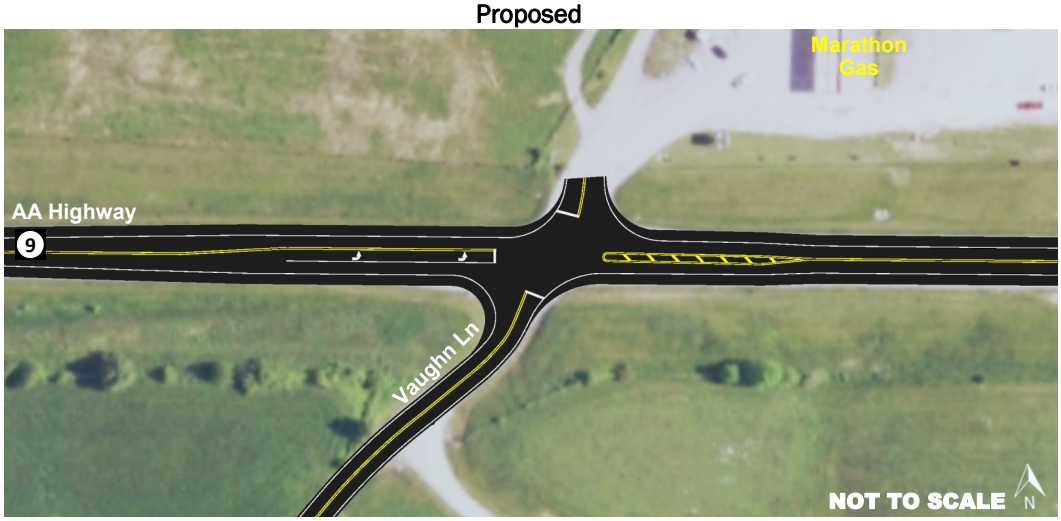
IMPROVEMENT CONCEPT

- Construct an eastbound left turn lane to improve safety.
- Add stop bars at approaches.

Existing



Proposed



Q

SPOT

PROJECT PRIORITY

Medium

LOCATION

Mason County

KY 9 at Marathon Gas Station—Vaughn Lane

MP 2.960

DATA

2020 AADT: 6,100
2045 AADT: 6,900
Crash Data:
CRF: 1.11
Crashes: 7
CHAF ID: N/A

DESCRIPTION

Improve intersection by constructing a left turn lane, restriping, and improving intersection awareness.

COST ESTIMATE

2020 Dollars

Design: $45,000
ROW: $ N/A
Utilities: $65,000
Const.: $440,000
Total: $550,000

LOCATION INFORMATION



Features

- 2-Lane
- 12’ Lane Width
- 10’ Shoulder Width
- No Lighting
- 13.4% Truck Traffic



KY 9 looking westbound

Issues

There is an intersection (KY 1237—Bridgeport Rd) located approximately 750’ east of the intersection. That intersection has an eastbound left turn lane which has a taper that extends back to the KY 1234 intersection. The striping taper and an extra 6’ of pavement width is causing westbound travelers to confuse this intersection for having a left-turn lane. An eastbound truck climbing lane also begins at the intersection of KY 1237—MP 0.598 . There were two comments associated with this spot by local officials and stakeholders regarding a roadway width issue causing drivers to expect there to be a turn lane when there is not, and they noted that there are several near-miss collisions. The one crash was an animal collision.

IMPROVEMENT CONCEPT

- Concept 1—Add hatch striping to clarify that there is no turn lane.
- Concept 2—Construct a westbound left-turn lane to improve safety.
- Add advanced intersection warning signage.

Existing



Concept 1—Hatch striping for better visibility and clarification of no westbound left turn lane.



Concept 2—Use extra width as a westbound left turn lane.



R

SPOT

PROJECT PRIORITY

Low

LOCATION

Mason County

KY 9 at KY 1234

MP 0.742

DATA

2020 AADT: 6,100
2045 AADT: 6,900
Crash Data:
CRF: N/A
Crashes: 1
CHAF ID: N/A

DESCRIPTION

Improve intersection by modifying striping or constructing a westbound left turn lane and improving intersection awareness.

COST ESTIMATE

2020 Dollars

Concept 1:

Design: $5,000
ROW: $ N/A
Utilities: $ N/A
Const.: $10,000
Total: $15,000

Concept 2:

Design: $50,000
ROW: $ N/A
Utilities: $ N/A
Const.: $265,000
Total: $ 315,000

LOCATION INFORMATION



Features

- 2-Lane
- 12’ Lane Width
- 11’ Shoulder Width
- No Lighting
- 15.2% Truck Traffic



KY 9 looking westbound

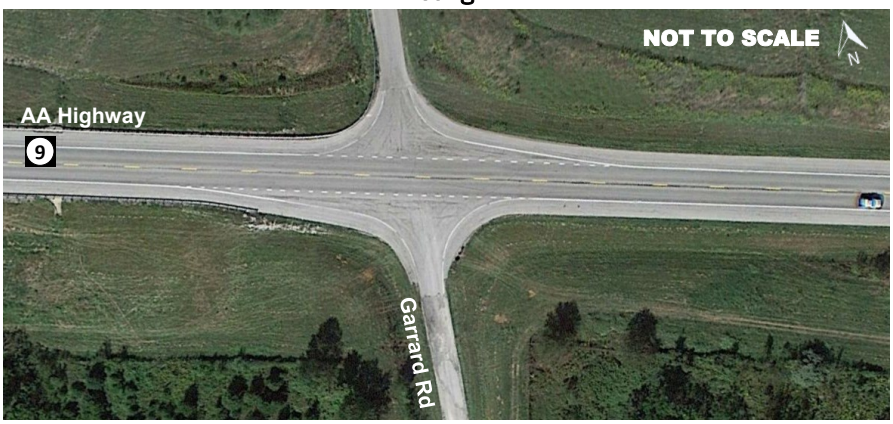
Issues

Through traffic is passing during this straight stretch which has led to conflict with vehicles stopped at the intersection to make a left turn. There were two comments associated with this spot by local officials and stakeholders regarding issues with the passing zone location. The crash was a rear end collision

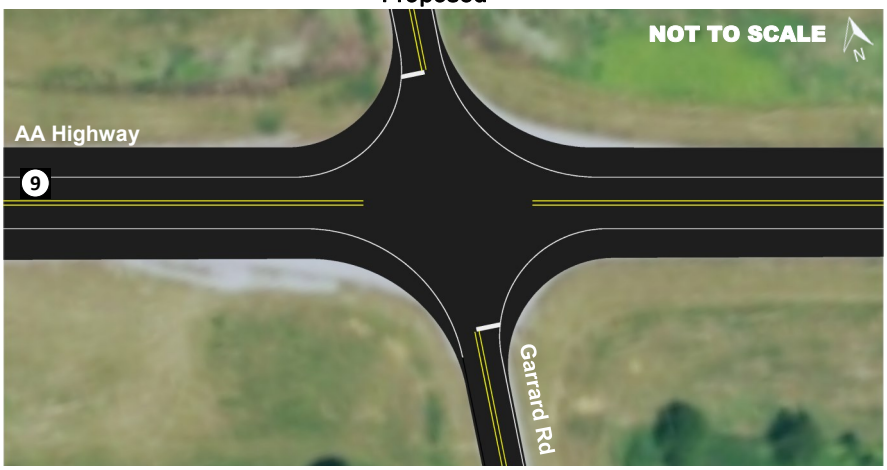
IMPROVEMENT CONCEPT

- Modify striping to double yellow to restrict passing eastbound from MP 30.700 to MP 30.075 and westbound form MP 29.900 to Garrard Road.
- Install “No Passing” signage.
- Add advanced intersection warning signage.

Existing



Proposed



S

SPOT

PROJECT PRIORITY

Short-term

LOCATION

Lewis County

KY 9 at Garrard Road

MP 30.360

DATA

2020 AADT: 5,000
2045 AADT: 5,700
Crash Data:
CRF: N/A
Crashes: 1
CHAF ID: N/A

DESCRIPTION

Improve intersection by modifying striping, adding “No Passing” signs, and improving intersection awareness.

COST ESTIMATE

2020 Dollars

Design: $5,000
ROW: $ N/A
Utilities: $ N/A
Const.: $5,000
Total: $10,000

LOCATION INFORMATION



Features

- 2-Lane
- 12’ Lane Width
- 11’ Shoulder Width
- Lighting on Side Streets.
- 15.2% — 15.5% Truck Traffic
- Intersects with SYP Project No. 9-8807.00 (Reconstruct KY 57)



KY 9 looking westbound

Issues

Four of the crashes were injury crashes (36%) and four were angle crashes (36%). Further evaluation of crash reports showed that red light running was the main cause. Plans for SYP Project No. 9-8807.00 were reviewed and do not include this intersection.

IMPROVEMENT CONCEPT

- Add flashing yellow arrow for KY 9 left turn movements.
- Add advanced intersection warning signage for KY 57 vehicles.
- Adjust signal timing.

Existing



T

SPOT

PROJECT PRIORITY

Short-term

LOCATION

Lewis County

KY 9 at KY 57

MP 28.380

DATA

2020 AADT: 4,900—5,000

2045 AADT: 5,600—5,700

Crash Data:

CRF: 1.88

Crashes: 11

CHAF ID: N/A

DESCRIPTION

Improve intersection by modifying signal timing and intersection awareness.

COST ESTIMATE

2020 Dollars

Design: $5,000

ROW: $ N/A

Utilities: $ N/A

Const.: $20,000

Total: $25,000

LOCATION INFORMATION



Features

- 3-Lane (EB Truck Climbing Lane)
- 12’ Lane Width
- 11’ Shoulder Width
- Lighting on Side Streets
- 15.5% — 19.2% Truck Traffic
- Culvert over Dry Run Creek—MP 11.240
- Overhead Warning Flashers



KY 9 looking northbound

Issues

Most of the crashes at this intersection were angle crashes (5—83%) and three were injury crashes (3—50%). An eastbound truck climbing lane begins at the intersection. The intersection is near a deficient horizontal curve approximately 1000’ south at MP 10.8.

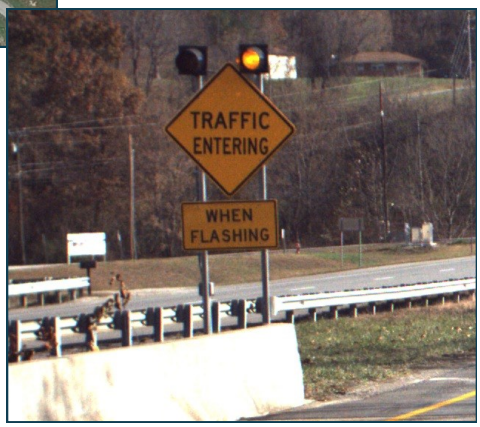
IMPROVEMENT CONCEPT

- Add advanced warning signage.
- Add Intersection Collision Warning System (ICWS) “Traffic Entering When Flashing” Signs on KY 9 to alert drivers there is traffic present.

Existing



ICWS



U

SPOT

PROJECT PRIORITY

Short-term

LOCATION

Lewis County

KY 9 at KY 59—Fairlane Drive

MP 11.205

DATA

2020 AADT: 5,000—5,100
2045 AADT: 5,700—5,800
Crash Data:
CRF: 1.20
Crashes: 6
CHAF ID: IP20110103
Reconstruct KY 9 (Unsponsored)

DESCRIPTION

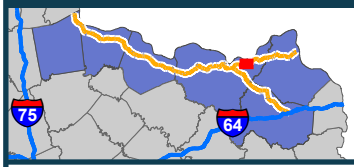
Improve intersection by improving intersection awareness.

COST ESTIMATE

2020 Dollars

Design: $5,000
ROW: $ N/A
Utilities: $ N/A
Const.: $30,000
Total: $35,000

LOCATION INFORMATION



Features

- 2-Lane
- 12’ Lane Width
- 11’ Shoulder Width
- No Lighting
- 9.9% Truck Traffic
- Bridge over Kinniconick Creek—MP 12.210



KY 10 looking eastbound

Issues

Five of the crashes occurred at the intersection of KY 1306, and three occurred west of the intersection which were all fixed object crashes. Five of the crashes were injury or fatal crashes, with one fatal crash (fixed object at MP 11.89). The fatality involved a roadway departure hitting a mailbox and trees. There is a driveway within a curve.

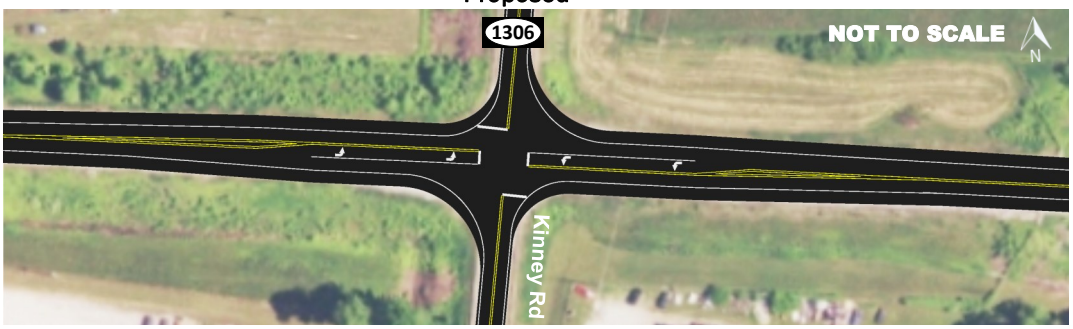
IMPROVEMENT CONCEPT

- Add advanced warning signage.
- Add dual stop signs on KY 1306 approaches.
- Evaluate clear zone along the northern side of KY 10 between MP 11.800 and MP 11.900 and clear trees or add guardrail.
- Add eastbound and westbound left turn lanes to improve safety.
- Consider addition of lighting.

Existing



Proposed



V

SEGMENT

PROJECT PRIORITY

High

LOCATION

Lewis County
KY 10
MP 11.805—MP 12.105
(Intersects KY 1306—Kinney Road MP 12.086)

DATA

2020 AADT: 2,600—4,600
2045 AADT: 3,000—5,200
Crash Data:
CRF: 1.85
Crashes: 8
CHAF ID: N/A

DESCRIPTION

Improve intersection by adding turn lanes, improving intersection awareness and clear zone.

COST ESTIMATE

2020 Dollars

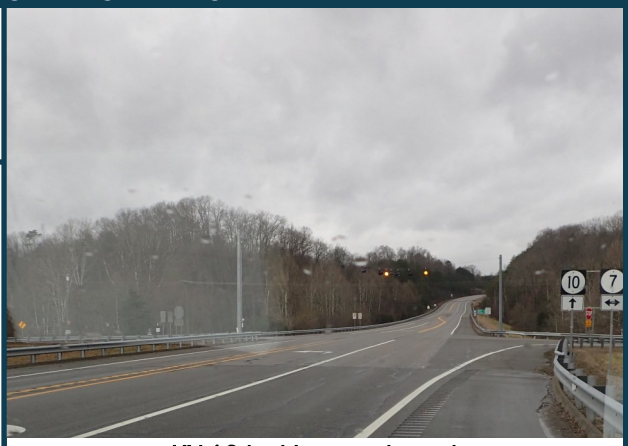
Design: $55,000
ROW: $ N/A
Utilities: $55,000
Const.: $560,000
Total: $670,000

LOCATION INFORMATION



Features

- 2-Lane
- 12’ Lane Width
- 12’ Shoulder Width
- No Lighting
- 9.6% Truck Traffic
- Overhead Caution Lights
- Bridge over Tygarts Creek—MP 8.380



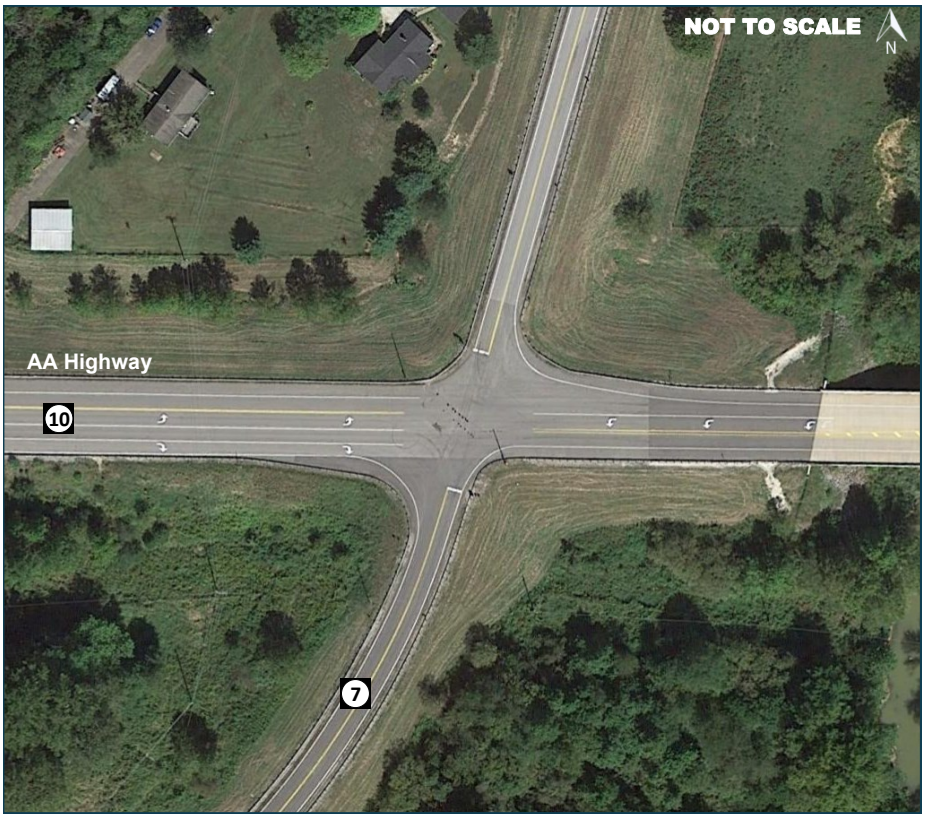
KY 10 looking westbound

Issues

All six crashes were angle crashes (100%) and three were injury crashes (50%). After further evaluation of crash reports, all crashes involved vehicles turning from KY 7 onto KY 10 and could not see the approaching vehicle. Three animal crashes were also recorded nearby. Only one was in dark conditions. A westbound truck climbing lane begins near the intersection approximately 940’ west at MP 8.111. There was one comment associated with this spot by local officials and stakeholders regarding the amount of crashes even though it has overhead caution lights. Sight distance was evaluated and was adequate.

IMPROVEMENT CONCEPT

- Add advanced warning signage.
- Add oversized dual stop signs on side street approaches.
- Add Intersection Collision Warning System (ICWS) “Traffic Entering When Flashing” Signs on KY 10 to alert drivers there is traffic present.
- Consider addition overhead lighting.



W

SPOT

PROJECT PRIORITY

Short-term

LOCATION

Greenup County

KY 10 at KY 7

MP 8.289

DATA

2020 AADT: 1,800—2,900

2045 AADT: 2,000—3,300

Crash Data:

CRF: 2.11

Crashes: 6

CHAF ID: N/A

DESCRIPTION

Improve intersection by improving intersection awareness.

COST ESTIMATE

2020 Dollars

Design: $5,000

ROW: $ N/A

Utilities: $ N/A

Const.: $35,000

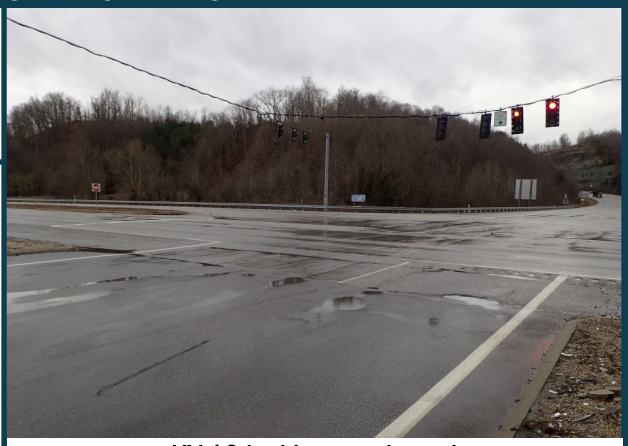
Total: $40.000

LOCATION INFORMATION



Features

- 3-Lane
- 12’ Lane Width
- 12’ Shoulder Width
- Lighting Except EB Approach
- 9.6% — 11.4% Truck Traffic



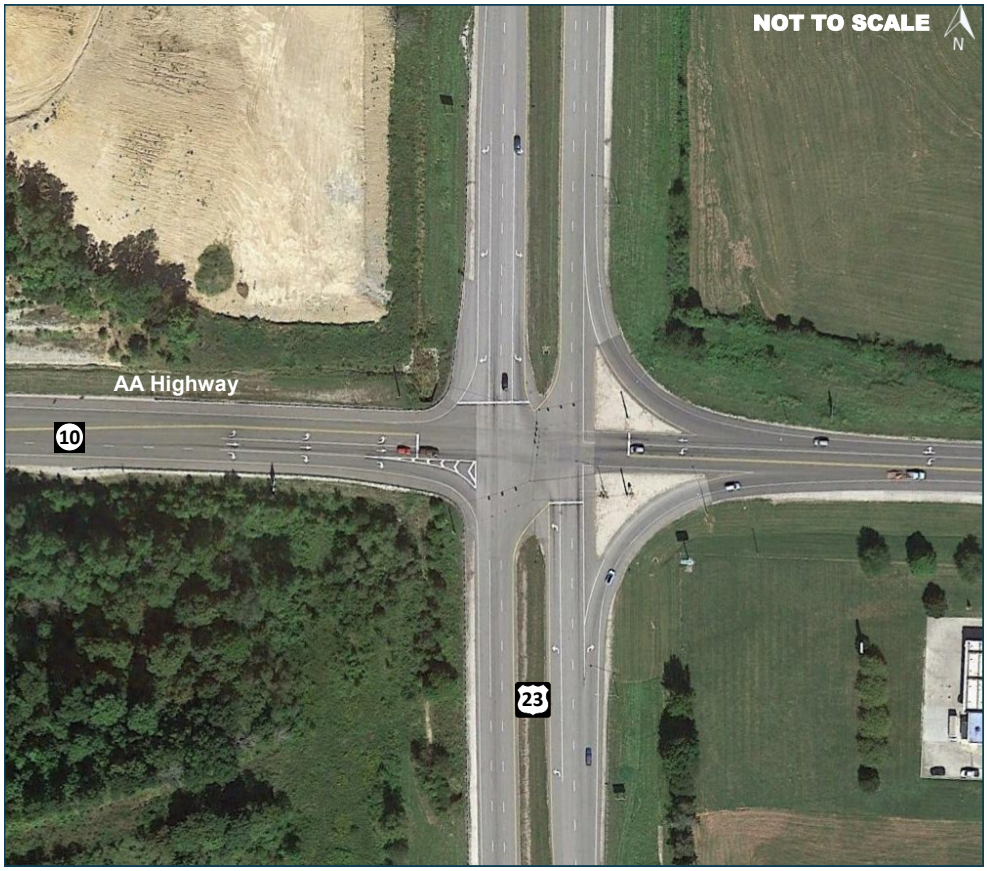
KY 10 looking westbound

Issues

Most of the crashes at the intersection were either angle crashes (8—42%) or rear end crashes (7—37%). A westbound truck climbing lane begins near the intersection approximately 640’ west at MP 11.461. Most of the rear ends were on the westbound approach. There was one comment associated with this spot by local officials and stakeholders regarding excess fog and the need for better intersection awareness signage.

IMPROVEMENT CONCEPT

- Add backplates to signals.
- Add dual-red signal heads.
- Improve signal timing.
- Add fog warning signage.



X

SPOT

PROJECT PRIORITY

Short-term

LOCATION

Greenup County

KY 10 at US 23

MP 11.582

DATA

2020 AADT: 2,900—6,700

2045 AADT: 3,300—7,600

Crash Data:

CRF: 2.94

Crashes: 19

CHAF ID: N/A

DESCRIPTION

Improve intersection by modifying signal timings and improving intersection awareness.

COST ESTIMATE

2020 Dollars

Design: $5,000

ROW: $ N/A

Utilities: $ N/A

Const.: $25,000

Total: $30,000

LOCATION INFORMATION



Features

- 2-Lane
- 12’ Lane Width
- 12’ Shoulder Width
- No Lighting
- 15.9% Truck Traffic
- T-Intersection



KY 9 looking eastbound

Issues

The intersection lies in the middle of a curve, yet the intersection is near passing zones. There were two comments associated with this spot by local officials and stakeholders regarding issues of sight distance, passing zone location, grade, and the lack of turn lanes. Turning Movement Counts were conducted at this intersection, and no turn lanes were warranted based on peak hour turning movements. Sight distance was evaluated and was determined to be adequate.

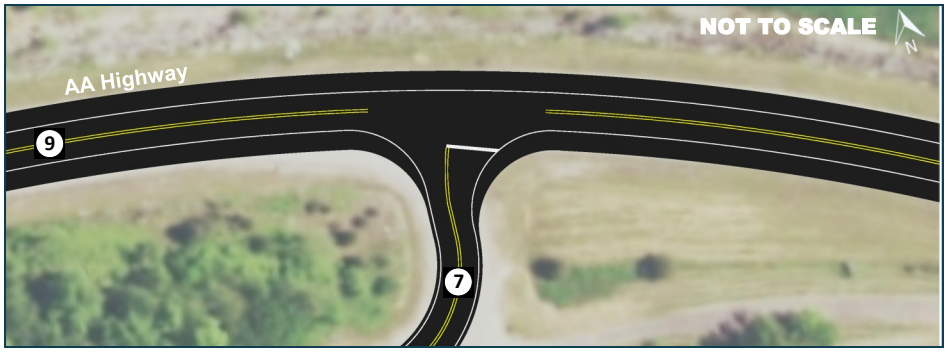
IMPROVEMENT CONCEPT

- Add stop bar on KY 7.
- Add advance intersection warning signage.
- Stripe a No Passing Zone through the intersection. Install “No Passing” signage.
- Consider addition of overhead lighting.

Existing



Proposed



Y

SPOT

PROJECT PRIORITY

Short-term

LOCATION

Carter County

KY 9 at KY 7—North Intersection

MP 6.498

DATA

2020 AADT: 3,000
2045 AADT: 3,400
Crash Data:
CRF: N/A
Crashes: 3
CHAF ID: N/A

DESCRIPTION

Improve intersection by making a no passing zone and improving intersection awareness.

COST ESTIMATE

2020 Dollars

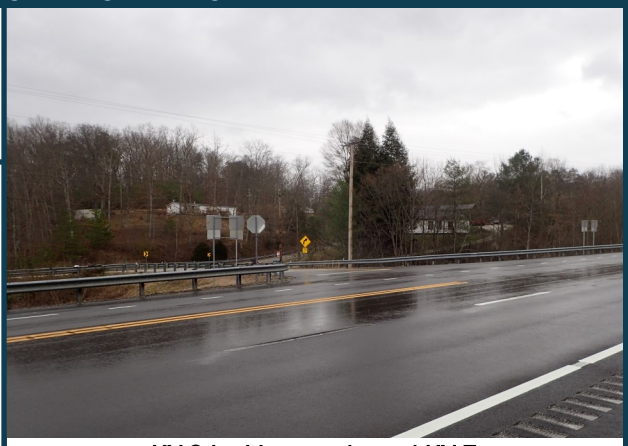
Design: $5,000
ROW: $ N/A
Utilities: $ N/A
Const.: $5,000
Total: $10,000

LOCATION INFORMATION



Features

- 3-Lane (EB Truck Climbing Lane)
- 12’ Lane Width
- 12’ Shoulder Width
- No Lighting
- 15.9% Truck Traffic
- T-Intersection



KY 9 looking eastbound KY 7

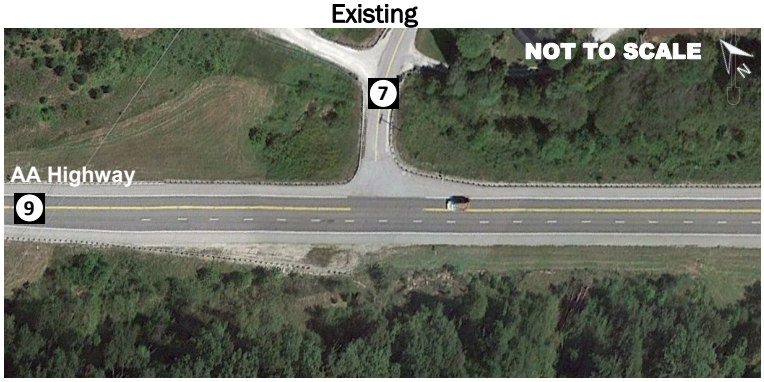
Issues

The eastbound truck climbing lane begins near the intersection approximately 290’ west at MP 5.541. The southbound passing lane starts right before intersection. There are very few turning movements to or from KY 7 (maximum peak hour turns onto KY 7 is four vehicles, and maximum peak hour turns exiting KY 7 is nine vehicles). There was one comment associated with this spot by local officials and stakeholders regarding an issue with the truck climbing lane transition. The crash was an animal collision. Turning Movement Counts were conducted at this intersection, and no turn lanes were warranted based on peak hour turning movements.

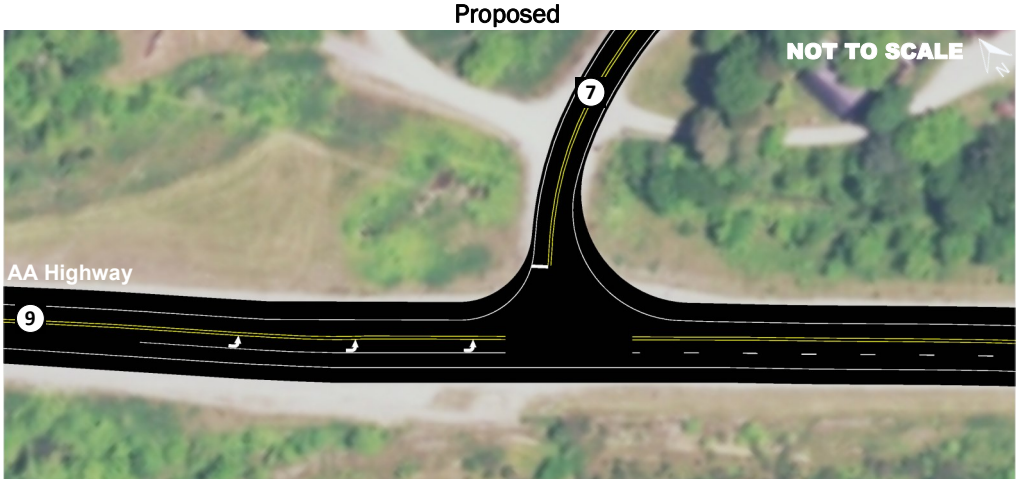
IMPROVEMENT CONCEPT

- Begin the eastbound truck climbing lane after the intersection, and convert the existing climbing lane to eastbound left turn lane.

Existing



Proposed



Z

SPOT

PROJECT PRIORITY

Short-term

LOCATION

Carter County

KY 9 at KY 7—South Intersection

MP 5.486

DATA

2020 AADT: 3,000—4,000

2045 AADT: 3,400—4,500

Crash Data:

CRF: N/A

Crashes: 1

CHAF ID: N/A

DESCRIPTION

Improve intersection by modifying lane configuration/intersection layout.

COST ESTIMATE

2020 Dollars

Design: $5,000

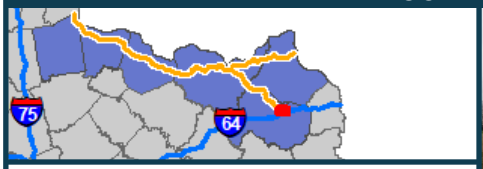
ROW: $ N/A

Utilities: $ N/A

Const.: $5,000

Total: $10,000

LOCATION INFORMATION



Features

- 2-Lane
- 12’ Lane Width
- 12’ Shoulder Width
- No Lighting
- 19.9% Truck Traffic



KY 9 looking westbound

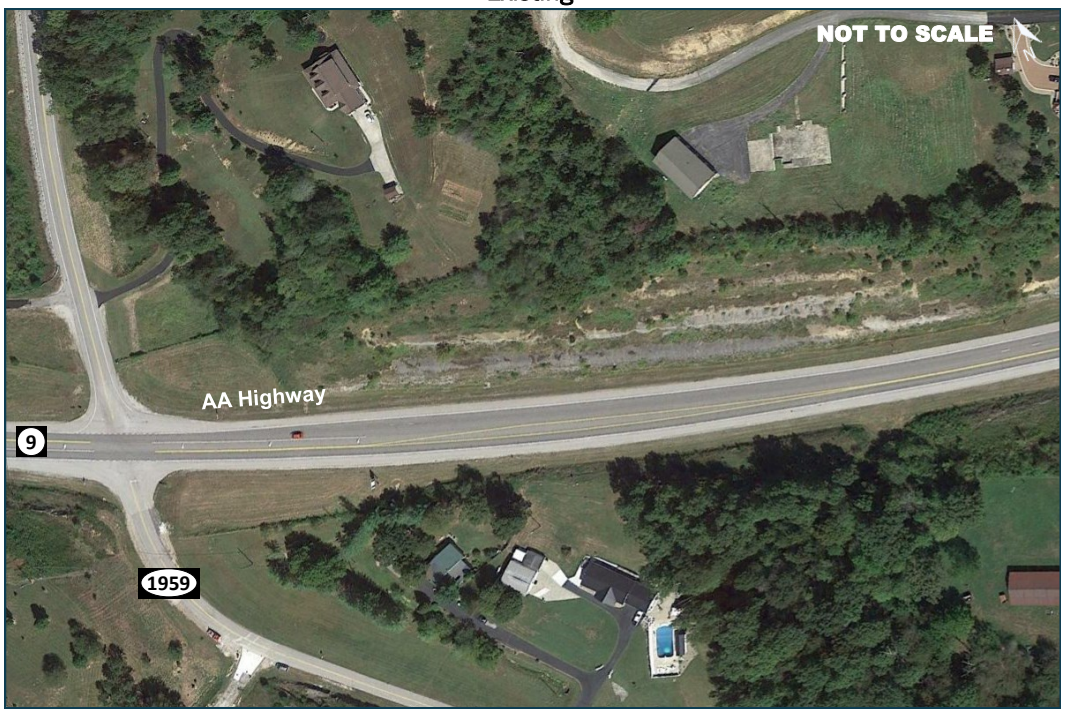
Issues

A westbound truck climbing lane ends near the intersection approximately 1170’ east at MP 0.856. However, the pavement width remains constant until the intersection. The crash was an angle collision, but there is also a sideswipe nearby at MP 0.990. There was one comment associated with this spot by local officials and stakeholders regarding an issue with the transition of the truck climbing lane, the lack of lighting, and the lack of caution lights. Turning Movement Counts were conducted at this intersection, and no turn lanes were warranted based on peak hour turning movements.

IMPROVEMENT CONCEPT

- Add advanced warning signage for the westbound truck climbing lane drop.
- Enhance median striping to help clarify the westbound truck climbing lane has ended and the westbound left turn lane begins.

Existing



AA

SPOT

PROJECT PRIORITY

Short-term

LOCATION

Carter County

KY 9 at KY 1959

MP 1.078

DATA

2020 AADT: 4,000—4,600

2045 AADT: 4,500—5,200

Crash Data:

CRF: N/A

Crashes: 1

CHAF ID: IP20080529

Improve Intersection (Unsponsored)

DESCRIPTION

Improve intersection by modifying striping and improving intersection awareness.

COST ESTIMATE

2020 Dollars

Design: $5,000

ROW: $ N/A

Utilities: $ N/A

Const.: $5,000

Total: $10,000

LOCATION INFORMATION



Features

- 4-Lane
- 12-foot Lane Width
- 2' - 10' Shoulder Width
- 14' - 15' Median Width (Mountable, Flush, and TWLTL)
- 55 MPH Speed Limit
- 10.6% — 14.2% Truck Traffic



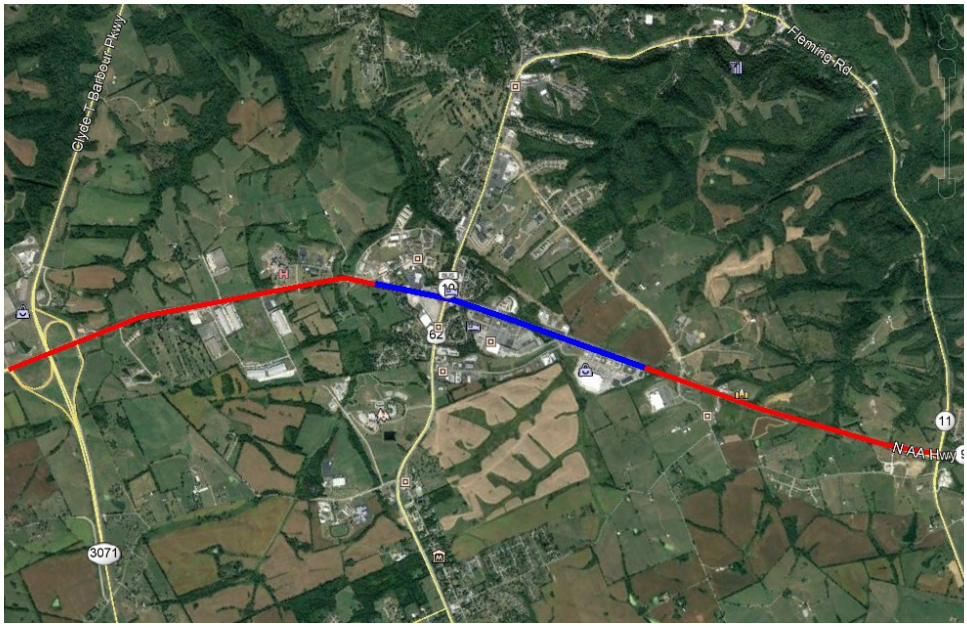
KY 9 looking northbound

Issues

There are five high crash 0.3 mile segments throughout these sections of KY 9. A portion of the section has curb and gutter and low shoulder widths which are not desirable for speed limits greater than 45 mph, and there are several access points throughout. Higher speeds can result in more serious injuries. There was a comment by local officials and stakeholders to reduce the speed limit to 45 mph.

IMPROVEMENT CONCEPT

- Reduce existing 55 mph speed limit (In Red) to 45 mph along KY 9 between just east of KY 11 and just west of Downing Dr. Increase law enforcement or add traffic calming measures such as "Your Speed" signs, transverse rumble strips, painted warnings, speed tables, or other measures.
    - The existing 45 mph speed limit (In Blue) extends from near the Walmart Way entrance at MP 9.179 to near Parker Road at MP 10.545. The curb and gutter ends near Golf Manor Drive at approximately MP 11.700.
- This countermeasure would also benefit the other intersections throughout this segment and identified improvement locations including H,I,J,K,L, and M.



AB

SEGMENT

PROJECT PRIORITY

Other

LOCATION

Mason County

KY 9

MP 7.560—9.179, MP 10.545—12.620

DATA

2020 AADT: 8,200—13,900

2045 AADT: 9,300—15,800

Crash Data:

CRF: 1.16—2.85

Crashes: 164

CHAF ID: N/A

DESCRIPTION

Improve safety along KY 9 between KY 11 and Downing Drive by reducing speeds.

COST ESTIMATE

2020 Dollars

Design: $5,000

ROW: $ N/A

Utilities: $ N/A

Const.: $10,000

Total: $15,000

LOCATION INFORMATION

Features

- 12’ Lane Width
- 46 Truck Climbing Locations
- 22 Eastbound; 24 Westbound
- ~43.2 Miles (1/3 of Study Area)



KY 9 looking eastbound

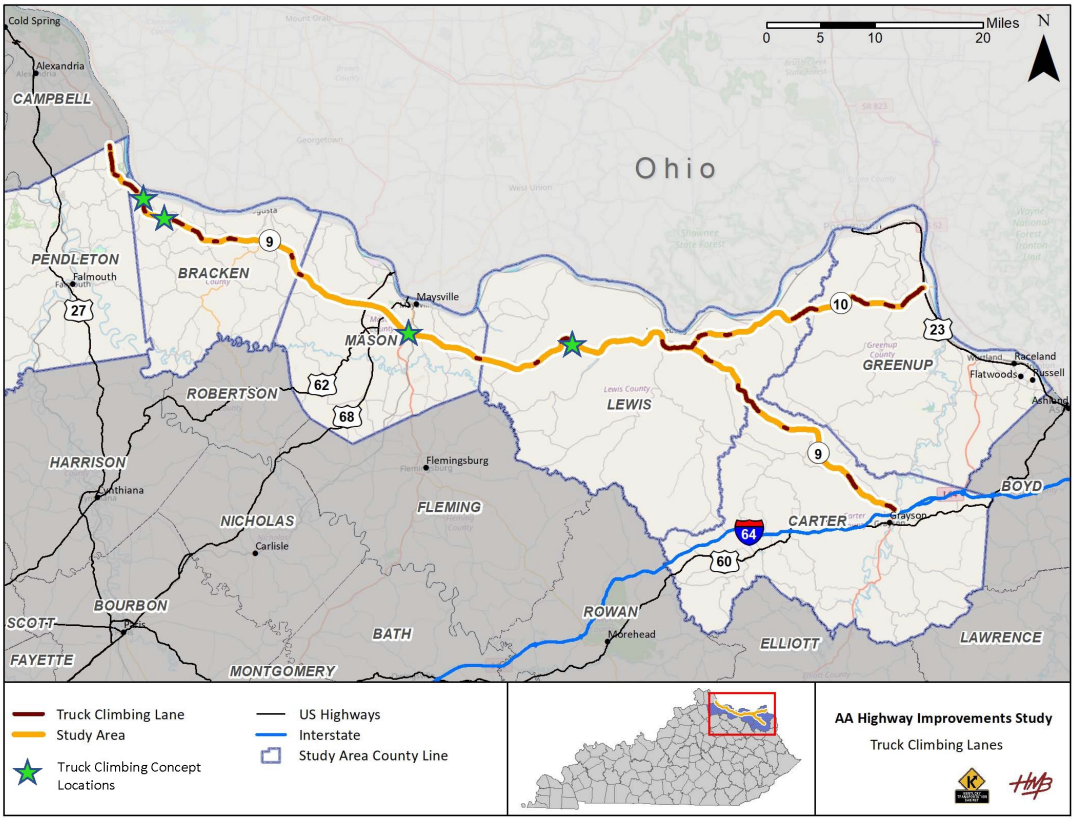
Issues

Transitions or lengths of truck climbing lanes, especially at intersections and major curves could contribute to identified sideswipe, head-on, or other collisions. Areas with crashes that may be contributed to truck climbing lanes, or the lack thereof, as well as locations identified by local officials or stakeholders are identified below for future evaluation.

IMPROVEMENT CONCEPT

Locations with a truck climbing lane and additional intersection issues were considered to be spot improvements and evaluated on an individual basis. Additional locations that had crashes potentially related to truck climbing lane issues and were not included in the intersection analysis are included in this corridor-wide improvement concept. The following should continue to be evaluated to potentially add or modify tuck climbing lanes:

- KY 9, Bracken County, MP 16.800—18.400, CRF of 0.98
- KY 9, Bracken County, MP 14.800—16.200 , CRF of 0.98 including one fatality
- KY 9, Mason County, MP 6.900—7.500, CRF of 1.02
- KY 9, Lewis County, MP 22.100 (Local official / stakeholder comment location)



AC

CORRIDOR WIDE

PROJECT PRIORITY

Other

LOCATION

All Counties

DATA

2020 AADT: 1,100—13,900
2045 AADT: 1,300—15,800
Crash Data:
CRF: 0.98 -1.02
Crashes: N/A
CHAF ID: N/A

DESCRIPTION

Evaluate existing truck climbing lane locations to determine if modifications are recommended; determine if additional truck climbing lanes are needed.

COST ESTIMATE

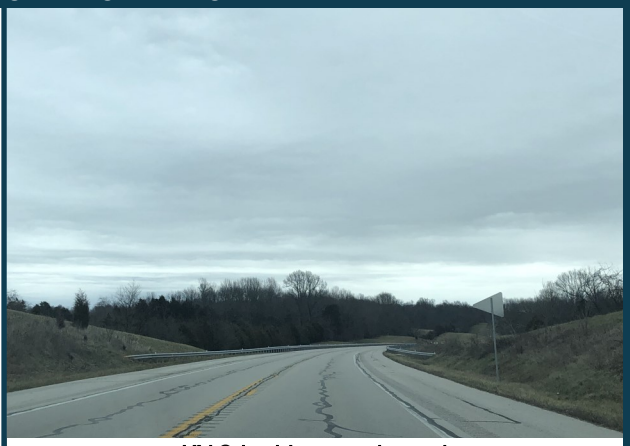
2020 Dollars

Design: $ TBD
ROW: $ TBD
Utilities: $ TBD
Const.: $ TBD
Total: $ TBD

LOCATION INFORMATION

Features

- KY 9 (Grayson Spur) in Carter Co. repaved summer 2019
- KY 9 in Lewis Co. from MP 15.800 to MP 21.000 listed for Preventative Maintenance funds year 2022 in 2018 Enacted Highway Plan
- KY 9 in Lewis Co. from KY 10 intersection to Carter Co. line scheduled for Preventative Maintenance funds year 2020 per District 9



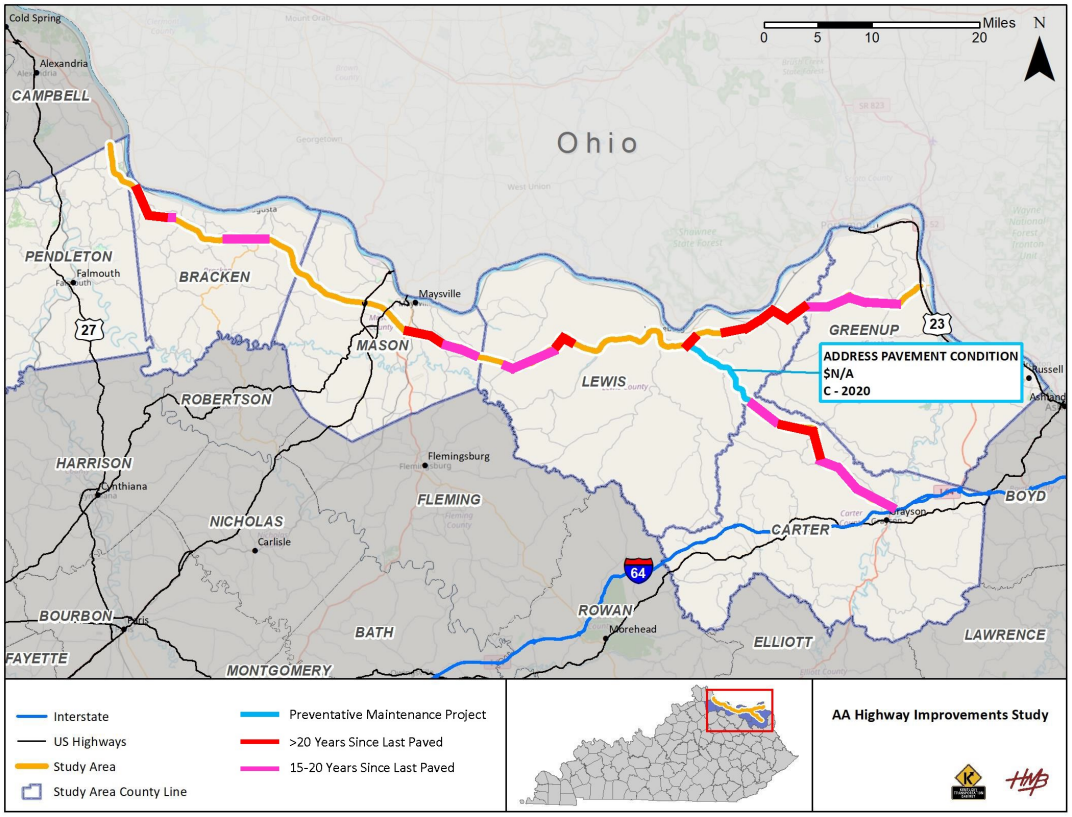
KY 9 looking eastbound

Issues

Sections of the AA Highway that have not recently been repaved have sealant obscuring lane and edge lines. Two comments were made by local officials / stakeholders with regard to pavement issues.

IMPROVEMENT CONCEPT

- Identify, evaluate, and prioritize routes needing pavement reconstruction or rehabilitation.
- Replace existing 4" striping with 6" spray thermo striping in conjunction with pavement reconstruction or rehabilitation projects or as needed.



AD

CORRIDOR WIDE

PROJECT PRIORITY

Other

LOCATION

All Counties

DATA

2020 AADT: 1,100—13,900
2045 AADT: 1,300—15,800
Crash Data:
CRF: N/A
Crashes: N/A
CHAF ID: N/A

DESCRIPTION

Identify and prioritize Preventative Maintenance Funds for portions of AA Highway that have not recently been repaved.

COST ESTIMATE

2020 Dollars

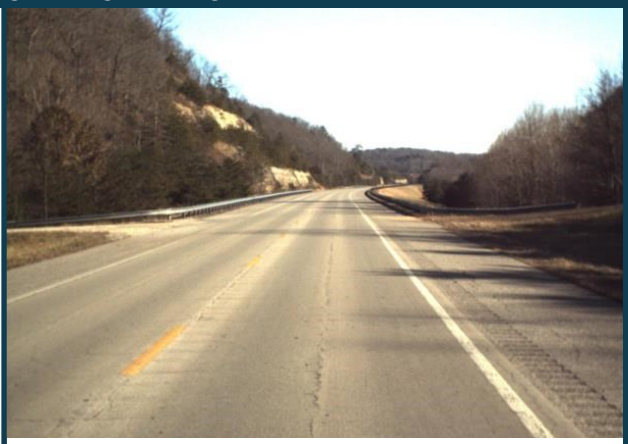
Re-paving: (Average/mile):
Design: $ 80,000
ROW: $ N/A
Utilities: $ N/A
Const.: $ 550,000
Total: $630,000

Re-striping (Average/mile):
Design: $1,000
ROW: $ N/A
Utilities: $ N/A
Const.: $6,500
Total: $7,500

LOCATION INFORMATION

Features

- Multiple Intersecting Streets
- No Horizontal or Vertical Curve Deficiencies Identified



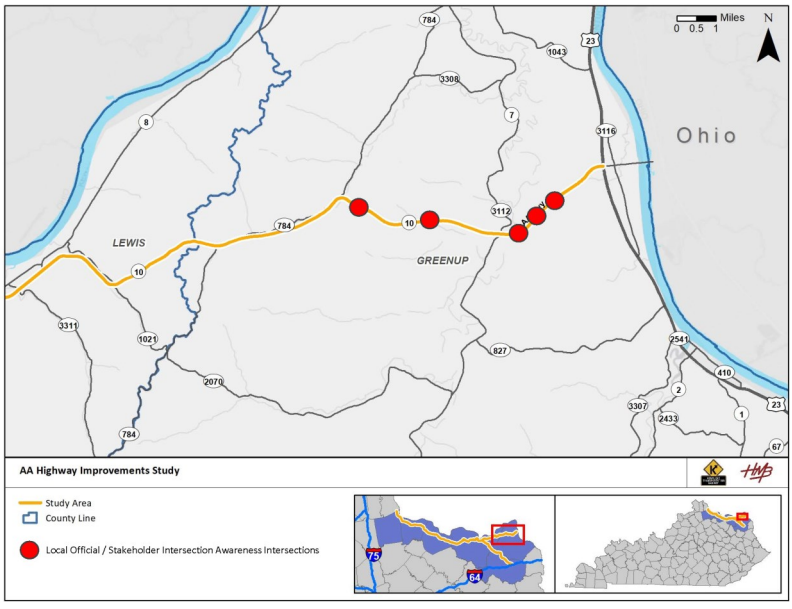
KY 10 looking eastbound

Issues

Within this section of the corridor, there is a lack of signage and advanced warning for intersecting streets. Five intersections were identified where this is an issue from local official / stakeholder input: Howland Hill Rd, Blackbird Rd, Tygart's Creek Rd, East Tygart's Creek Rd, and Graysbranch Rd. Other intersections near the area were evaluated based on crash history, geometric deficiencies, and sight distance issues.

IMPROVEMENT CONCEPT

- Evaluate side streets and install stop signs and stop bars.
- Add advanced intersection warning signs.
- For intersections with identified crashes or in curves, consider addition of flashing warning beacon.
- Consider addition of street name to intersection warning signs.







AE

CORRIDOR-WIDE

PROJECT PRIORITY

Other

LOCATION

Lewis / Greenup County

KY 10

MP 6.800 (KY 9/10 Split) to MP 11.600 (US 23)

DATA

2020 AADT: 1,100—4,600

2045 AADT: 1,300—5,200

Crash Data:

CRF: N/A

Crashes: N/A

CHAF ID: N/A

DESCRIPTION

Intersection awareness; signage, striping, and identification of side streets.

COST ESTIMATE

2020 Dollars

Design: $5,000

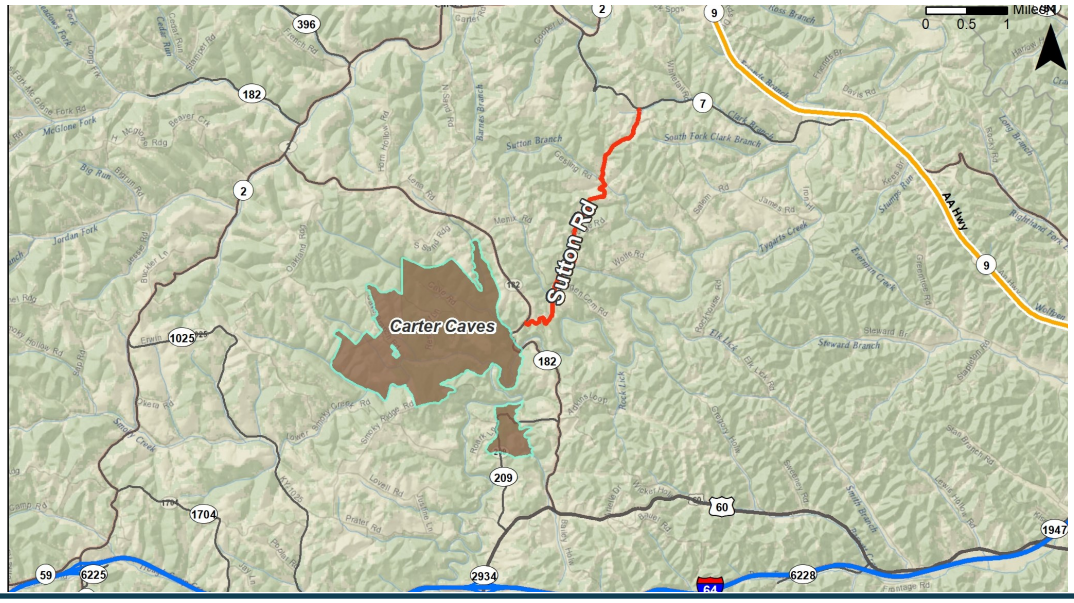
ROW: $ N/A

Utilities: $ N/A

Const.: $15,000

Total: $20,000

LOCATION INFORMATION



Issues

Directional navigation through GPS and wayfinding utilizes a more hazardous local road (Sutton Road—CR 1418) instead of following KY 7 / KY 2 / KY 182 from KY 9 (Grayson Spur). Attendees at the Local Officials / Stakeholder Meeting No. 1 presented this issue as input to the study.

IMPROVEMENT CONCEPT

- Evaluate routes leading to / from KY 9 and Carter Caves State Resort Park.
- Provide recommendations to navigation guidance for any proposed modifications.

AF

CORRIDOR WIDE

PROJECT PRIORITY

Other

LOCATION

Carter County

DATA

2020 AADT: N/A
2045 AADT: N/A
Crash Data:
CRF: N/A
Crashes: N/A
CHAF ID: N/A

DESCRIPTION

Evaluate routes and functional classifications for roadways connecting from AA Highway to Carter Caves State Resort Park. Route vehicles in GPS.

COST ESTIMATE

2020 Dollars

Design: $ N/A
ROW: $ N/A
Utilities: $ N/A
Const.: $ N/A
Total: $ N/A

LOCATION INFORMATION

Features

- Posted Speed Limit - 55 mph (45 mph in Maysville)
- 85th percentile speed average in Pendleton / Bracken / Mason Counties at 63 mph (generally 8 mph above posted speed limit)



KY 9 looking eastbound

Issues

Speeds higher than the posted speed limit of 55 were found from speed data provided by KYTC from 2015—2017.

IMPROVEMENT CONCEPT

- Targeted enforcement of speeding with increased presence of police.
- Increased use of portable speed monitors to reinforce speed limit.



AG

CORRIDOR WIDE

PROJECT PRIORITY

Other

LOCATION

Pendleton / Bracken / Mason Counties

DATA

2020 AADT: 1,100—13,900
2045 AADT: 1,300—15,800
Crash Data:
CRF: N/A
Crashes: N/A
CHAF ID: N/A

DESCRIPTION

Add speed reduction measures to lower the 85th percentile speed closer to 55 and 45 mph speed limit.

COST ESTIMATE

2020 Dollars

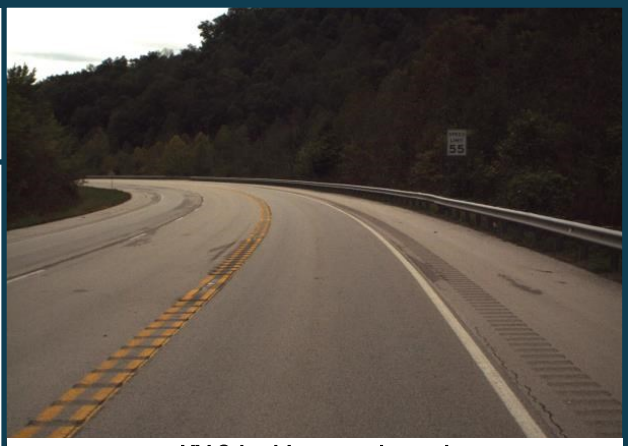
Design: $ N/A
ROW: $ N/A
Utilities: $ N/A
Const.: $ N/A
Total: $ N/A

LOCATION INFORMATION



Features

- Design Speed: 55 MPH
- Three horizontally deficient curves (shown as red circles in map below)



KY 9 looking westbound

Issues

Horizontal and vertical curves were evaluated for the entire study area. There were 10 horizontally deficient curves identified and zero vertically deficient curves identified. The horizontal curves were deemed deficient because the radii do not meet the design speed based on the existing superelevations as identified in the as-built plans. Three of the curves had crashes that would support mitigating the curves. An eastbound / westbound truck climbing lane transition occurs near a curve from approximately MP 9.050—9.350. The two eastern deficient curves are in an S-curve. Three of the crashes were ran-off roadway crashes (38%), three were fixed object crashes (38%), and four were injury or fatality crashes (50%) with the fatality being a head-on crash at MP 9.750.

IMPROVEMENT CONCEPT

- Mitigate surface drainage issues throughout segment.
- Improve friction surface issue by implementing high skid resistance surface or improve superelevation with milling / paving.
- Add curve warning signage.



AH

CORRIDOR WIDE

PROJECT PRIORITY

?????

LOCATION

Lewis County

KY 9

MP 9.553—MP 11.133

DATA

2020 AADT: 1,100—13,900

2045 AADT: 1,300—15,800

Crash Data:

CRF: 1.19

Crashes: 18

CHAF ID: N/A

DESCRIPTION

Mitigate crashes relating to deficient horizontal curves.

COST ESTIMATE

2020 Dollars

High Friction Surface Option:

Design: $30,000
ROW: $ N/A
Utilities: $ N/A
Const.: $300,000
Total: $330,000

Superelevation Correction Option:

Design: $50,000
ROW: $ N/A
Utilities: $ N/A
Const.: $480,000
Total: $530,000

LOCATION INFORMATION



Features

- 2-Lane
- 12’ Lane Width
- 11’ Shoulder Width
- Lighting on Side Streets
- 15.451% Truck Traffic
- Overhead Caution Lights
- School Zone—Reduced Speed of 35 mph during school traffic



KY 9 looking westbound

Issues

There were comments associated with this spot by local officials and stakeholders regarding the potential danger of this intersection—specifically since it is used heavily by younger, less experienced drivers going to and from Lewis County High School. The intersection sits between two curves.

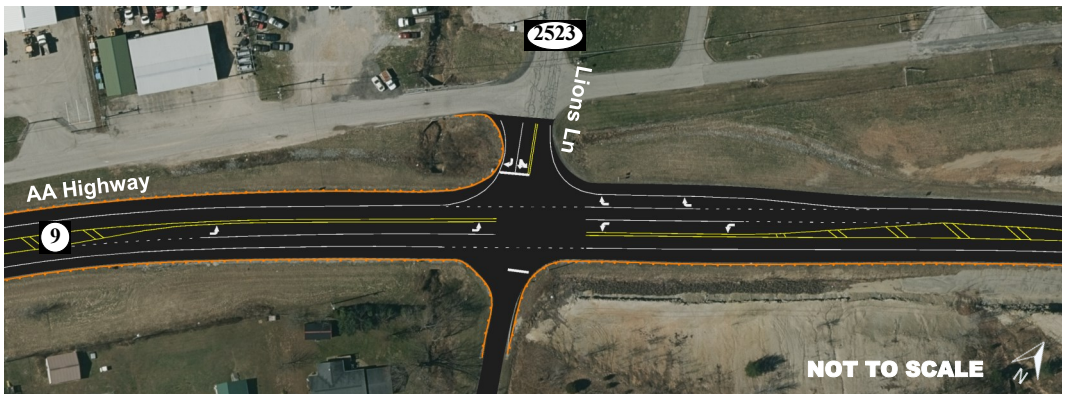
IMPROVEMENT CONCEPT

Existing



Proposed

Add a second southbound lane on Lions Lane and “Do Not Block Intersection” signage.



AI

SPOT

PROJECT PRIORITY

Short-term

LOCATION

Lewis County

KY 9 at KY 2523 (Lions Lane)

MP 12.749

DATA

2020 AADT: 5,000
2045 AADT: 5,700
Crash Data:
CRF: N/A
Crashes: 0
CHAF ID: N/A

DESCRIPTION

Improve intersection by adding a second lane to the southbound Lions Lane approach.

COST ESTIMATE

2020 Dollars

Design: $10,000
ROW: $ N/A
Utilities: $ N/A
Const.: $55,000
Total: $65,000

8.2 Next Steps

The next phase in the project development process is Preliminary Engineering. If federal funds are used or permits will be required, additional environmental analyses will be required to satisfy the National Environmental Policy Act (NEPA). All identified high, medium, and low priority projects would need to be integrated into Kentucky's Strategic Highway Investment Formula for Tomorrow (SHIFT). Through this mechanism they may be programmed in the Highway Plan. Short-Term projects may be initiated through the District's routine maintenance and traffic programs or become part of systematic programs such as Pavement Rehabilitation or Highway Safety Improvement Program (HSIP). Corridor projects may be implemented through a combination of these mechanisms or considered for additional study. City and county governments, along with ADDs, should collaborate with KYTC on project funding and implementation.

8.3 Additional Information

Written requests for additional information should be sent to KYTC Division of Planning Director, 200 Mero Street, Frankfort, Kentucky 40622. Additional information regarding this study can be obtained from the District 9 Project Manager at (606) 845-2551 or by mail at P.O. Box 347, Flemingsburg, Kentucky 41041.

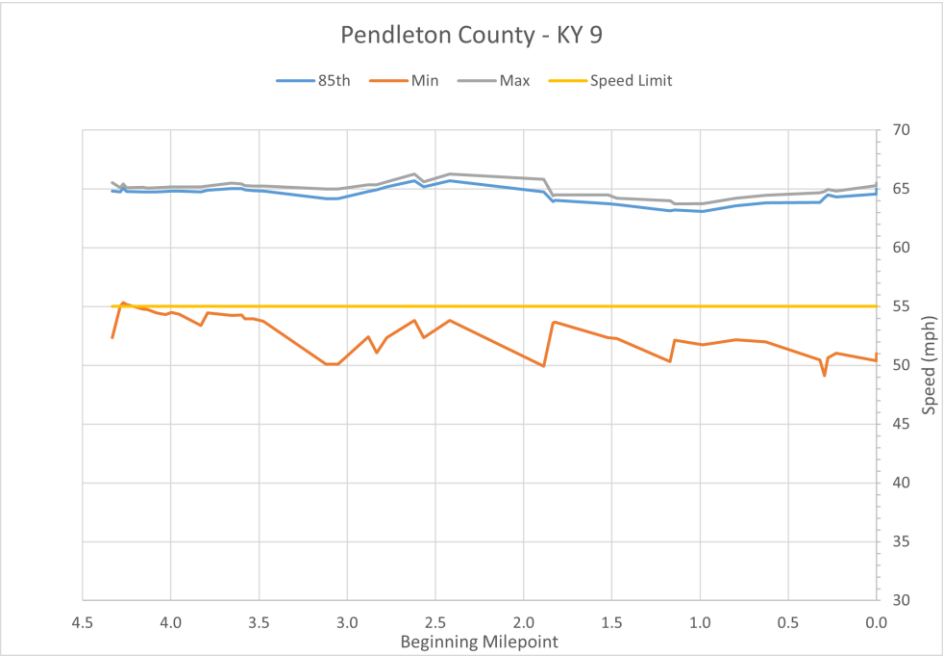
APPENDIX A:

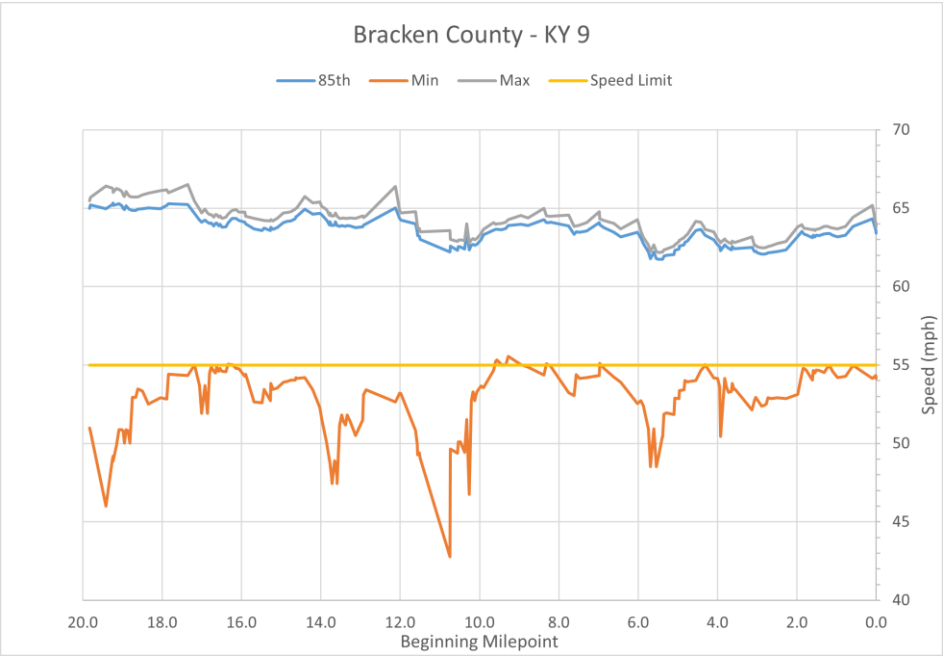
Speed Data

APPENDIX A:

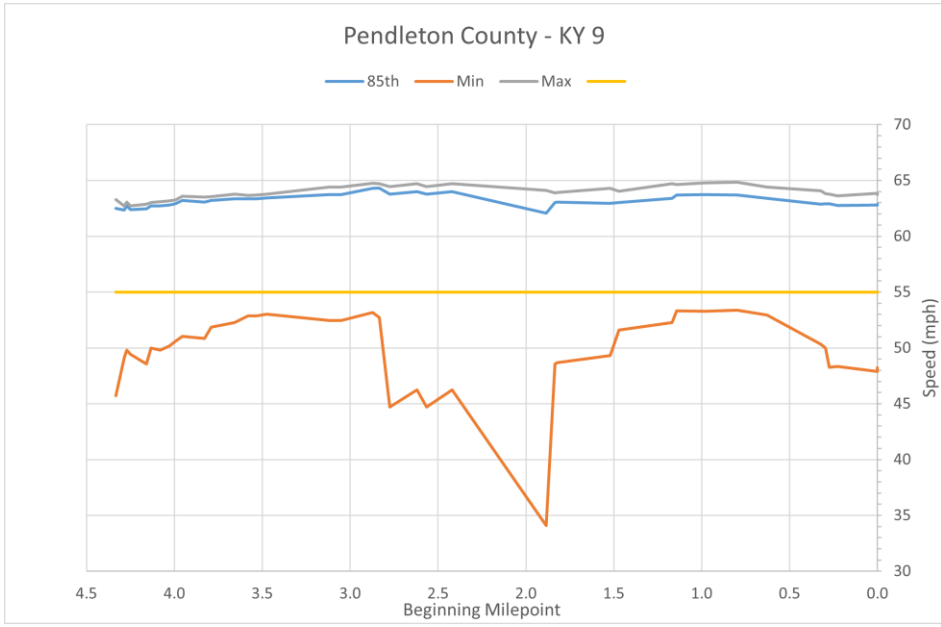
Speed Data

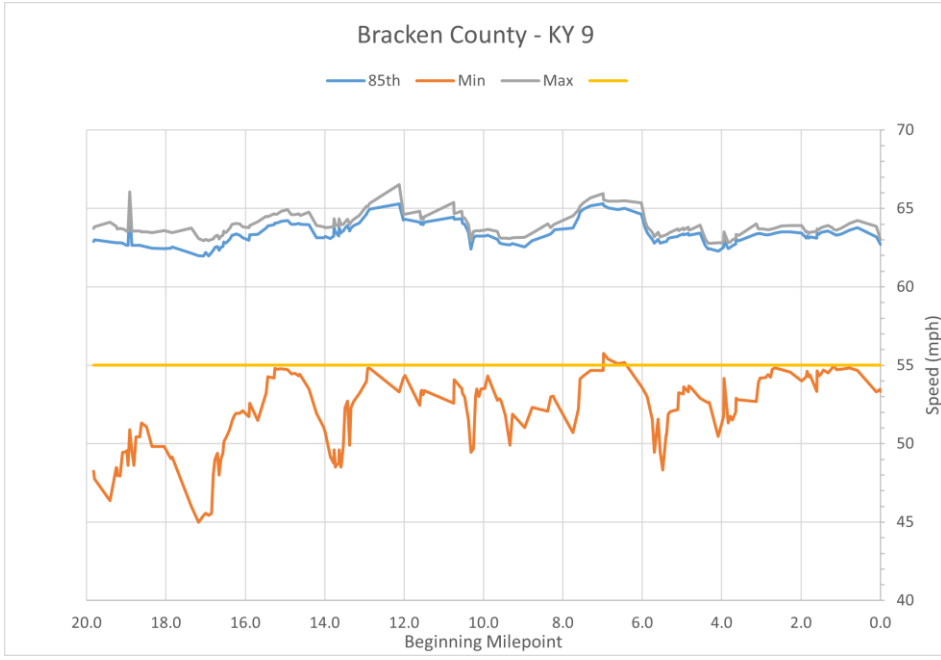
Cardinal





Non-Cardinal





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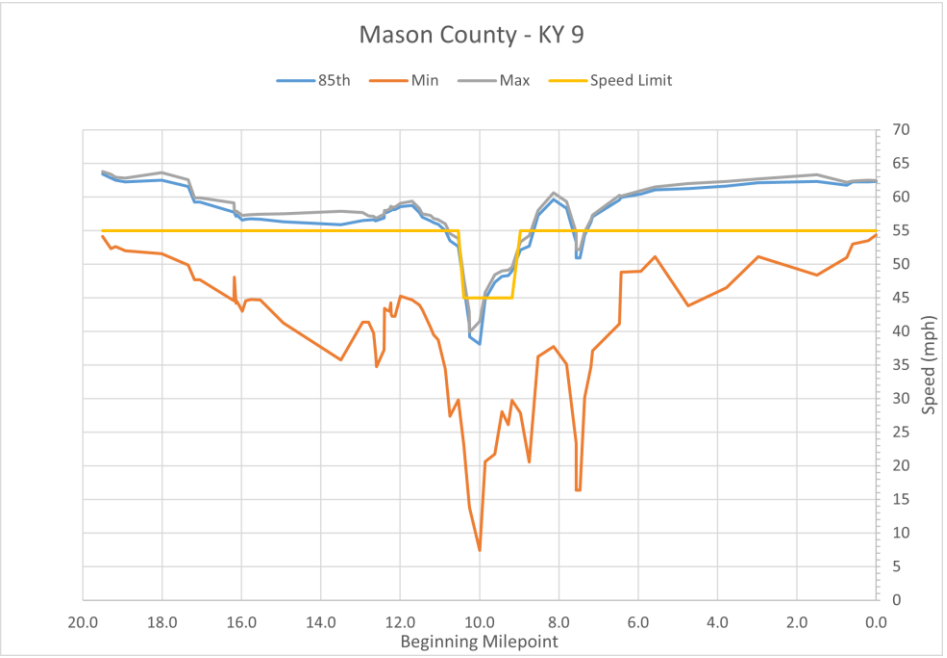

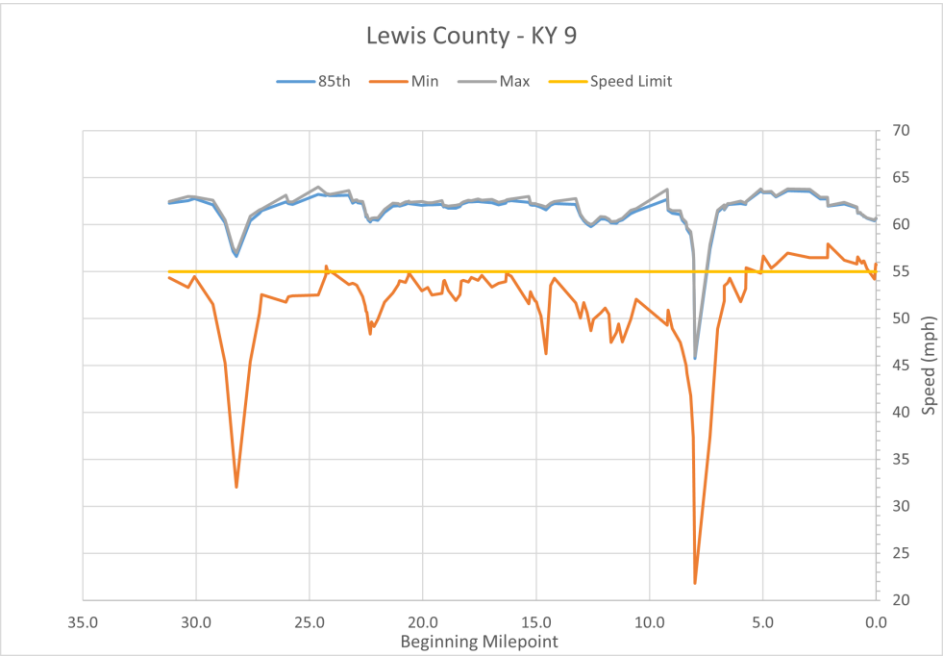

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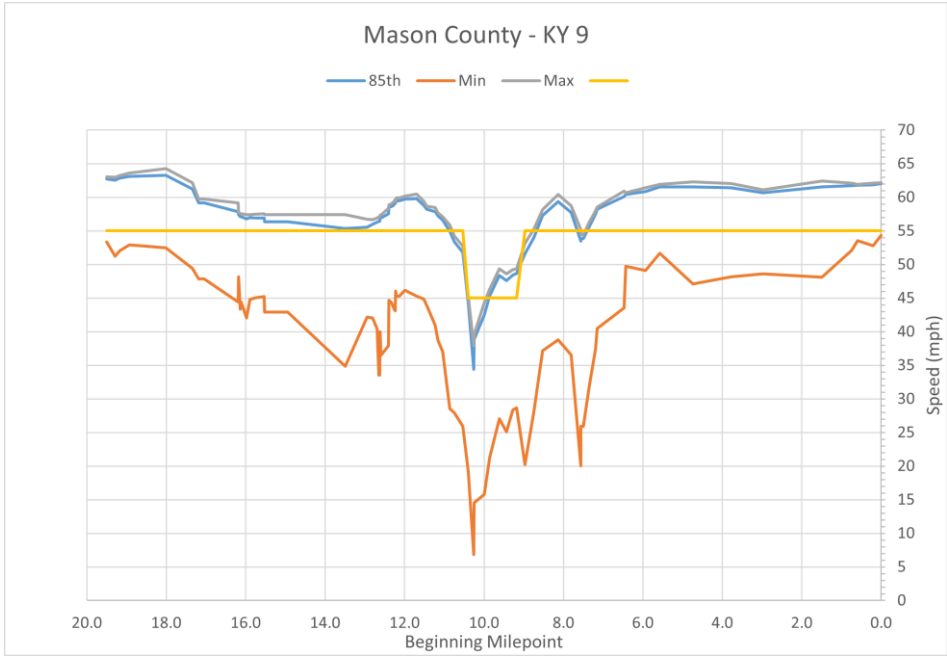

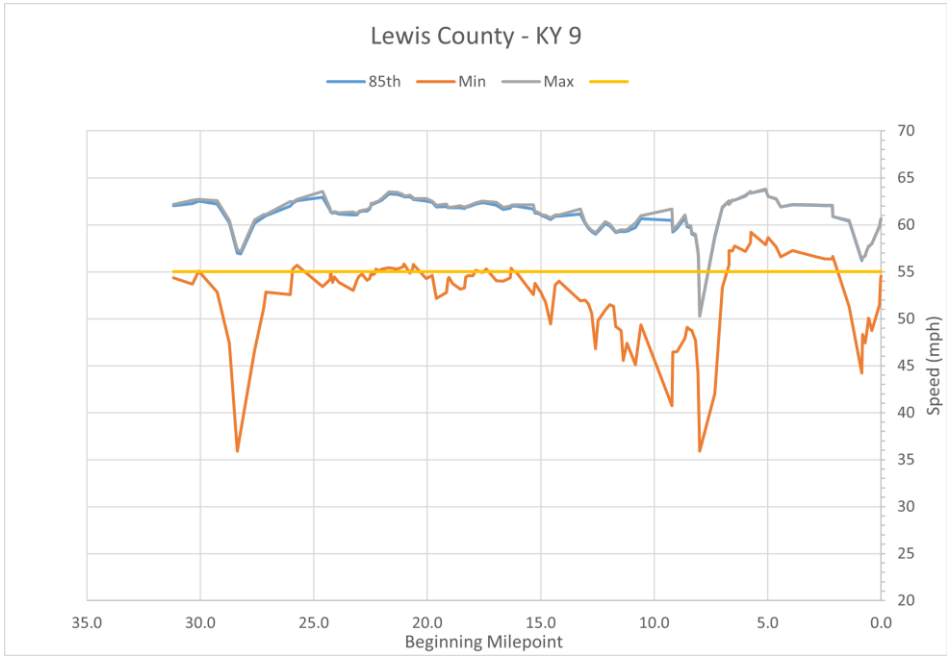

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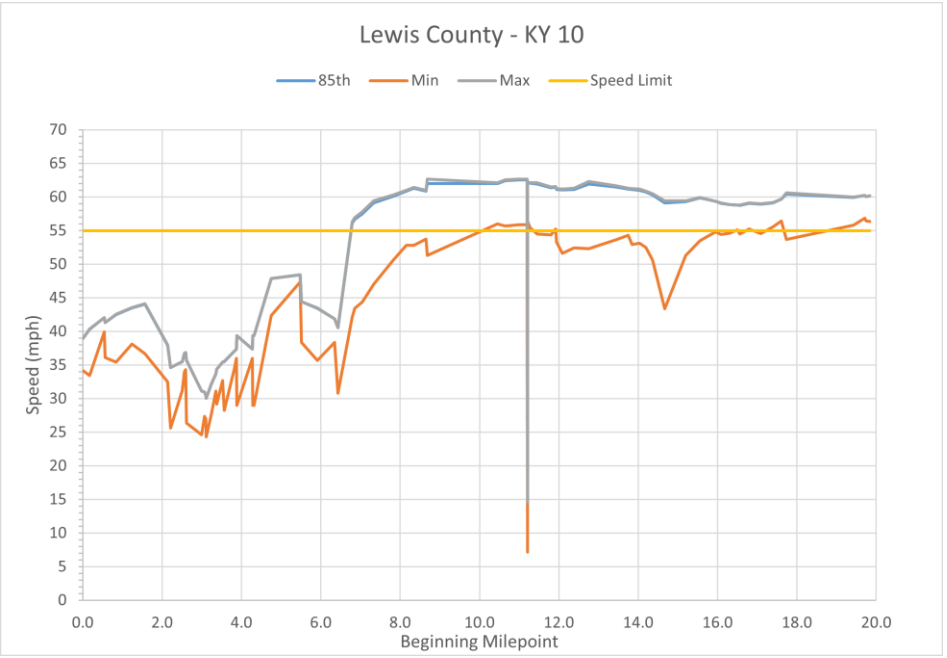

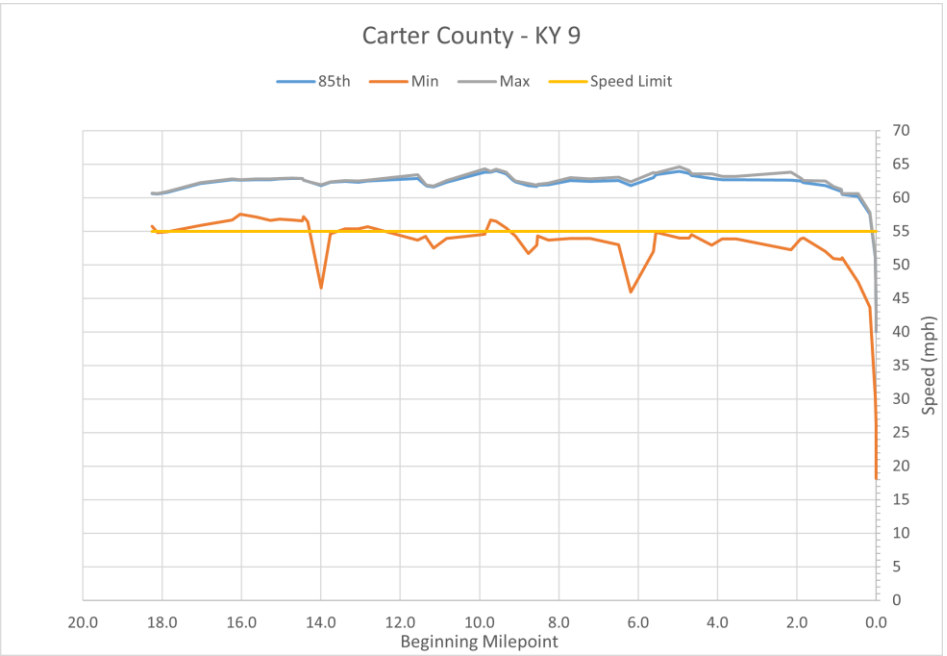

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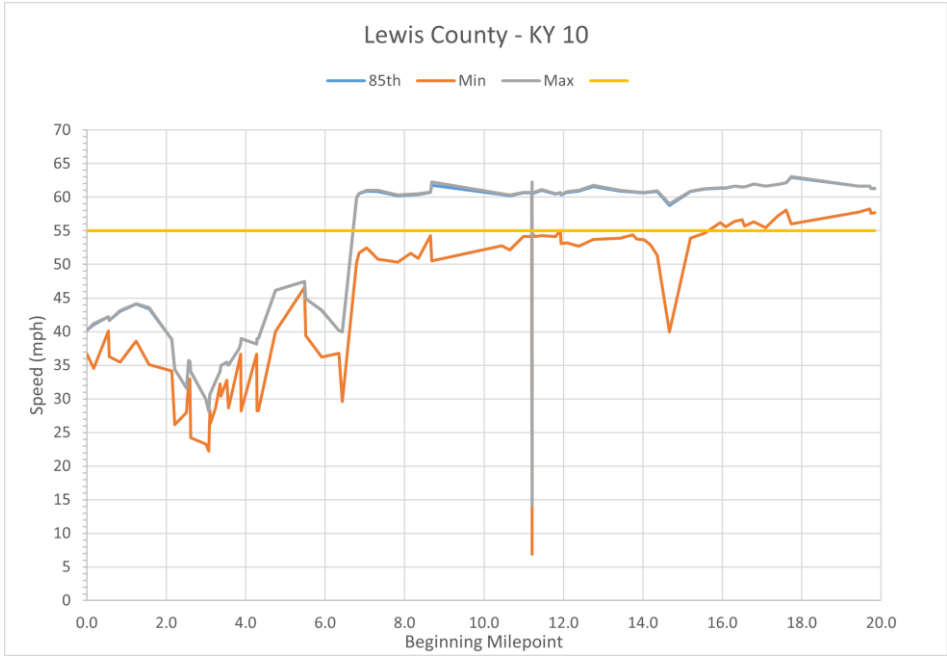

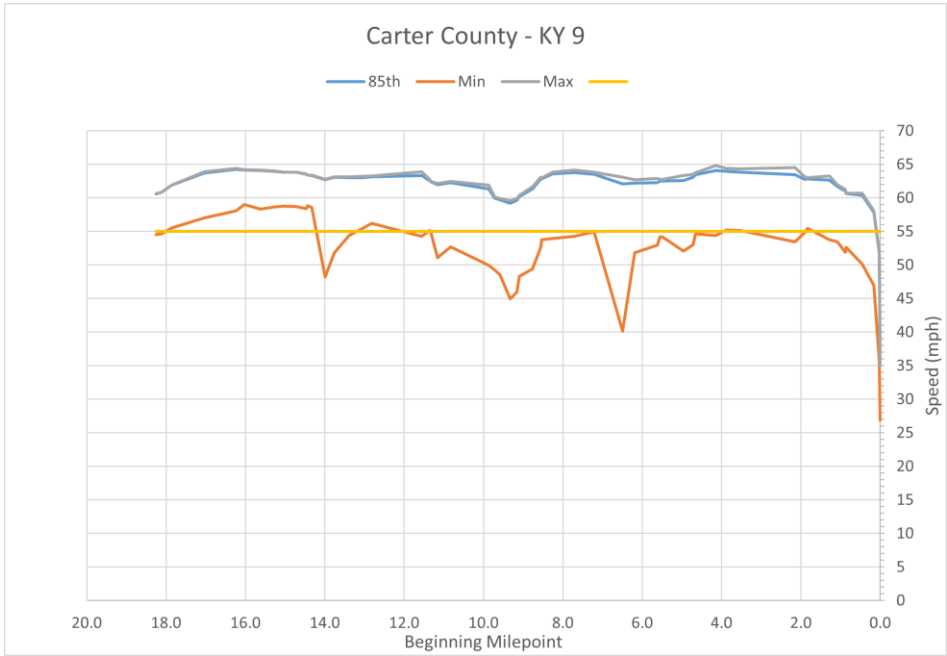

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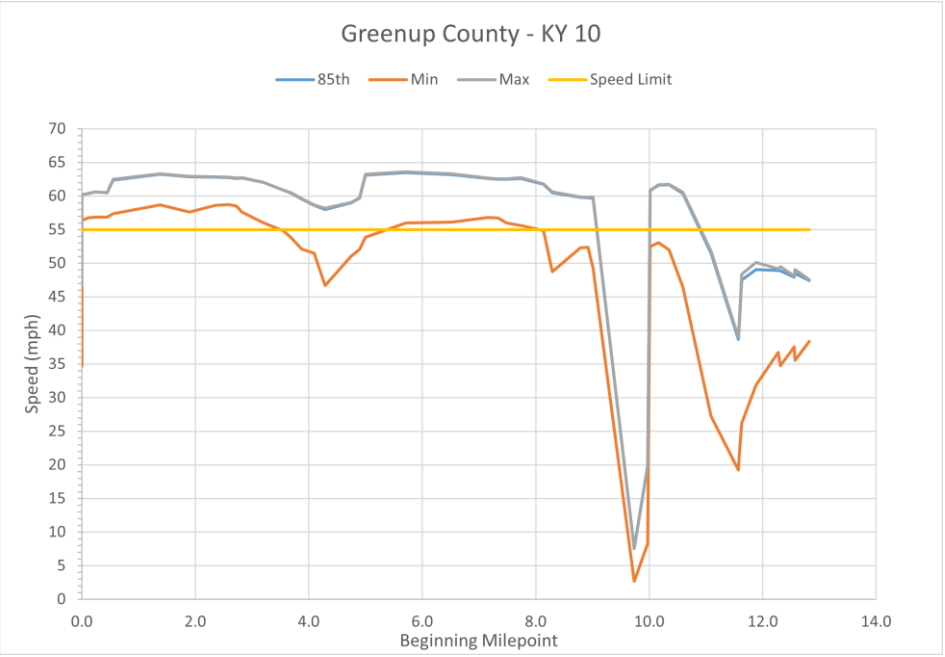

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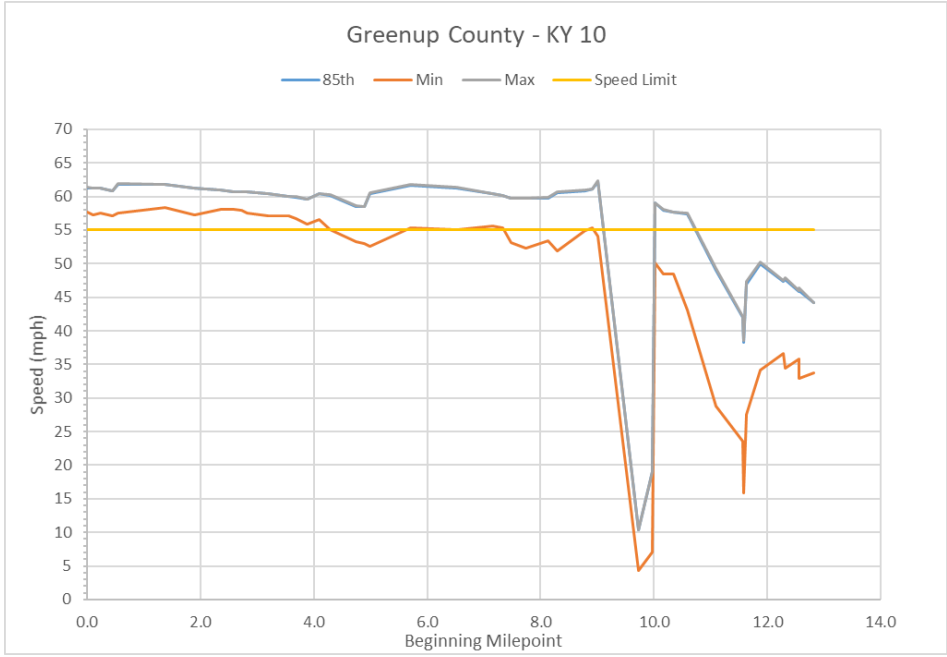


APPENDIX B:

Crash Data

AA Highway Improvements Study Crash Data (2014-2019)																		
Incident Id	Agency Name	County	Roaway Number	Roadway Name	Latitude	Longitude	Milepoint	Collision Date	Collision Time	Units Involved	Number Killed	Number Injured	Severity	Weather	Roadway Condition	Hit and Run?	Directional Analysis	Manner of Collision	Roadway Characteristic	Light Condition
587537	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7328822	-84.1038603	10.417	7/4/2015	0626	2	0	0	O	FOG	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAWN
2436580	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6210554	-83.783648	9.266	11/2/2014	1415	2	0	2	C	CLEAR	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
2439176	KY STATE POLICE, POST 06	PENDLETON	KY0009	AA	38.852035	-84.2633738	3.628	11/5/2014	1625	1	0	0	O	RAINING	WET	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	CURVE & GRADE	DAYLIGHT
2672724	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	GRAYSON	38.5416984	-83.2094077	3.237	11/20/2014	0637	1	0	1	C	CLEAR	DRY	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	CURVE & GRADE	DAWN
3396751	KY STATE POLICE, POST 14	CARTER	KY0009	AA	38.3934059	-83.0130566	5.048	11/4/2014	0719	2	0	0	O	CLEAR	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	CURVE & LEVEL	DAYLIGHT
3399605	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6315861	-83.7953106	10.226	11/4/2014	1127	2	0	1	C	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	REAR END	STRAIGHT & LEVEL	DAYLIGHT
3404886	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6326097	-83.7967845	10.333	11/5/2014	1712	3	0	0	O	CLOUDY	WET	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	ANGLE	STRAIGHT & LEVEL	DUSK
3417562	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6316269	-83.7953592	10.23	12/20/2014	1830	2	0	2	B	CLOUDY	DRY	TRUE	REAR END IN TRAFFIC ONE VEHICLE STOPPED	REAR END	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
3418040	MASON COUNTY SHERIFF	MASON	KY0009	MARTIN LUTHER KING	38.6404688	-83.8160472	11.518	11/25/2014	2200	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
3418056	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.5830329	-83.6872368	3.164	11/26/2014	0700	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DAWN
3423437	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6131727	-83.7748881	8.544	11/14/2014	0420	1	0	0	O	BLOWING SAND/SOIL/DIRT/SNOW	DRY	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & HILLCREST	DARK-HWY LIGHTED/OFF
3423828	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.62294	-83.7855912	9.437	2/8/2015	1841	2	0	2	C	RAINING	WET	FALSE	OPPOSING LEFT TURN	OPPOSING LEFT TURN	STRAIGHT & GRADE	DARK-HWY LIGHTED/OFF
3424959	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.5996366	-83.740601	6.376	11/4/2014	1100	1	0	0	O	CLEAR	DRY	FALSE	OTHER COLLISIONS ON SHOULDER	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
3424973	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.5835122	-83.6925198	3.453	11/5/2014	1320	1	0	0	O	CLOUDY	WET	FALSE	RAN OFF ROADWAY (1 VEHICLE WITH/EARTH EMBANKMENT/DITCH)	SINGLE VEHICLE	STRAIGHT & GRADE	DAYLIGHT
3425149	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6359262	-83.8019271	10.698	1/30/2015	0735	1	0	0	O	SNOWING	SNOW/SLUSH	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & HILLCREST	DAYLIGHT
3425158	MAYSVILLE POLICE DEPARTMENT	MASON		MARTHA COMER - IDUSTRIAL PARK DR	38.6390774	-83.8110421	0.003	1/30/2015	1709	2	0	0	O	CLEAR	DRY	FALSE	REAR END - OTHER	REAR END	STRAIGHT & GRADE	DAYLIGHT
3425163	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6226838	-83.7851803	9.409	1/30/2015	2202	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & GRADE	DARK-HWY LIGHTED/ON
3440700	KY STATE POLICE, POST 14	GREENUP	KY0010	AA	38.6287353	-82.9829358	5.197	1/11/2015	2140	1	0	0	O	RAINING	ICE	FALSE	RAN OFF ROADWAY (1 VEHICLE WITH/EARTH EMBANKMENT/DITCH)	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
3441464	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6456599	-83.85565	13.712	2/28/2015	0018	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
3442095	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7748679	-84.2071035	16.924	12/18/2014	2234	1	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & HILLCREST	DARK-HWY LIGHTED/OFF
3442106	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7311495	-84.084896	9.352	12/26/2014	1544	2	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE COLLISION - SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & GRADE	DAYLIGHT
3446302	KY STATE POLICE, POST 14	GREENUP	KY0010	AA	38.6271352	-83.022427	2.635	11/7/2014	1740	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
3449212	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	KY9	38.5645662	-83.6235349	30.625	11/21/2014	1900	2	0	2	A	CLEAR	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
3449216	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	KY9	38.5586169	-83.5453982	26.092	12/3/2014	0107	1	0	1	C	FOG	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & HILLCREST	DARK-HWY LIGHTED/ON
3450016	KY STATE POLICE, POST 06	PENDLETON	KY0009	KY9	38.8112514	-84.2392956	0.276	3/11/2015	0932	1	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
3456396	KY STATE POLICE, CVE	LEWIS	KY0009	GRAYSON	38.5010202	-83.1799983	0.002	1/26/2015	0900	2	1	1	K	CLOUDY	SNOW/SLUSH	FALSE	HEAD-ON COLLISION	HEAD ON	CURVE & GRADE	DAYLIGHT
3460012	MAYSVILLE POLICE DEPARTMENT	MASON		WALMART	38.6211108	-83.7837288	0.363	12/29/2014	1250	2	0	0	O	CLEAR	DRY	FALSE	REAR END - OTHER	REAR END	STRAIGHT & LEVEL	DAYLIGHT
3461791	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.637498	-83.8050607	10.902	12/25/2014	1549	2	2	5	K	CLOUDY	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	CURVE & GRADE	DAYLIGHT
3462797	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7328708	-84.1035422	10.401	11/22/2014	0600	1	0	0	O	RAINING	ICE	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
3462802	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.73285	-84.1035	10.399	11/22/2014	0630	2	0	0	O	RAINING	ICE	FALSE	SIDESWIPE COLLISION - OPPOSITE DIRECTION	SIDESWIPE-OPPOSITE DIRECTION	STRAIGHT & LEVEL	DAWN
3462870	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.6989905	-83.9533231	0.952	11/11/2014	1755	1	0	1	C	CLOUDY	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	CURVE & LEVEL	DARK-HWY LIGHTED/OFF
3482899	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7371991	-84.111481	10.938	2/6/2015	0610	1	0	1	B	CLEAR	DRY	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
3482903	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7700449	-84.2020691	16.48	2/5/2015	0139	1	0	0	O	SNOWING	SNOW/SLUSH	TRUE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	CURVE & GRADE	DARK-HWY NOT LIGHTED
3482917	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7135839	-83.9575441	2.026	2/11/2015	2208	2	0	0	O	CLOUDY	DRY	FALSE	SIDESWIPE COLLISION - OPPOSITE DIRECTION	SIDESWIPE-OPPOSITE DIRECTION	CURVE & GRADE	DARK-HWY NOT LIGHTED
3482937	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.727056	-83.9838783	3.779	2/17/2015	1307	2	0	0	O	CLEAR	WET	FALSE	ANGLE COLLISION - BOTH VEHICLES GOING STRAIGHT	ANGLE	STRAIGHT & HILLCREST	DAYLIGHT
3482945	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7640438	-84.1746978	14.944	2/20/2015	1535	1	0	1	B	CLEAR	DRY	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & GRADE	DAYLIGHT
3482950	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7325684	-84.1008439	10.259	2/21/2015	1800	1	0	0	O	FOG WITH RAIN	SNOW/SLUSH	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & LEVEL	DUSK
3486808	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6653277	-83.9108978	17.067	3/5/2015	0254	1	0	0	O	SNOWING	SNOW/SLUSH	FALSE	RAN OFF ROADWAY (1 VEHICLE WITH/EARTH EMBANKMENT/DITCH)	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
3488769	PENDLETON CTY SHERIFF DEPT.	PENDLETON	KY0009	KY9	38.8522387	-84.2633923	3.643	11/17/2014	0739	2	0	2	C	BLOWING SAND/SOIL/DIRT/SNOW	SNOW/SLUSH	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & GRADE	DAWN
3519189	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.6488665	-83.8716291	12.464	12/1/2014	1727	2	0	0	O	RAINING	WET	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
3521367	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.622884	-83.785641	9.431	2/24/2015	0945	2	0	0	O	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	OPPOSING LEFT TURN	STRAIGHT & GRADE	DAYLIGHT
3521372	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6239948	-83.7868698	9.533	2/27/2015	1744	2	0	0	O	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	REAR END	STRAIGHT & LEVEL	DUSK
3527018	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6710328	-83.9221298	17.791	11/20/2014	1747	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
3533483	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.603191	-83.7622094	7.57	11/1/2014	1500	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
3535327	KY STATE POLICE, POST 14	CARTER	KY0009	AA	38.4196771	-83.0591661	8.401	11/9/2014	0315	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
3535330	KY STATE POLICE, POST 14	CARTER	KY0009	AA	38.4621285	-83.1148455	13.774	11/9/2014	1721	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DUSK
3540208	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6451522	-83.850952	13.455	12/13/2014	0430	1	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
13017995	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	AA	38.6465976	-83.8636606	12.011	11/12/2014	0605	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK (UNKNOWN ROADWAY LIGHTING)
13702736	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.5732199	-83.6532738	1.163	11/7/2014	1956	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
13703306	KY STATE POLICE, POST 06	BRACKEN	KY0009	AA	38.7311134	-84.0111434	5.319	11/22/2014	0810	1	0	2	A	CLOUDY	ICE	FALSE	RAN OFF ROADWAY (1 VEHICLE WITH/EARTH EMBANKMENT/DITCH)	SINGLE VEHICLE	STRAIGHT & GRADE	DAYLIGHT
13703324	KY STATE POLICE, POST 06	BRACKEN	KY0009	AA	38.7307814	-84.0084836	5.174	11/22/2014	0841	1	0	0	O	CLOUDY	ICE	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
14119713	KY STATE POLICE, POST 06	BRACKEN	KY0009	AA	38.7009162	-84.1537853	1.085	12/23/2014	1641	1	0	0	O	CLOUDY	WET	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DAYLIGHT
14165861	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6059236	-83.7657672	7.841	12/3/2014	0700	2	0	0	O	CLOUDY	WET	TRUE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAWN
14185047	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7683919	-84.19591	16.128	12/23/2014	2038	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH NON-FIXED OBJECT	SINGLE VEHICLE	CURVE & GRADE	DARK-HWY NOT LIGHTED
14185058	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7684584	-84.1958339	16.126	1/3/2015	0900	2	0	0	O	SNOWING	ICE	TRUE	SIDESWIPE COLLISION - SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & GRADE	DAYLIGHT
14189844	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7634667	-84.1721785	14.803	2/1/2015	1645	1	0	0	O	RAINING	WET	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	SINGLE VEHICLE	STRAIGHT & GRADE	DUSK
14189857	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7637176	-84.1739358	14.899	2/1/2015	1645	1	0	0	O	RAINING	WET	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	SINGLE VEHICLE	STRAIGHT & GRADE	DUSK
14194381	CARTER COUNTY SHERIFF DEPT.	CARTER	KY0009	AA	38.4610747	-83.0825049	11.999	1/29/2015	0857	1	0	0	O	RAINING	ICE	FALSE	RAN OFF ROADWAY (1 VEHICLE WITH/EARTH EMBANKMENT/DITCH)	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
14206393	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6312394	-83.7948453	10.192	1/15/2015	1350	3	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC ONE VEHICLE STOPPED	REAR END	STRAIGHT & LEVEL	DAYLIGHT
14214599	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6126464	-83.7741563	8.49	2/6/2015	1105	1	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & HILLCREST	DAYLIGHT
14224631	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6305967	-83.7938844	10.125	12/23/2014	1741	2	0	0	O	RAINING	WET	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & GRADE	DARK-HWY LIGHTED/ON
14351006	KY STATE POLICE, POST 14	GREENUP	KY0010	AA	38.6275613	-82.952002	6.911	12/27/2014	1837	1	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & HILLCREST	DARK-HWY NOT LIGHTED
14351408	KY STATE POLICE, POST 14	GREENUP	KY0010	AA	38.6276752	-82.9534437	6.832	12/27/2014	1837	1	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & HILLCREST	DARK-HWY NOT LIGHTED
14354451	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6318751	-83.7956753	10.254	3/7/2015	1606	2	0	1	C	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	OPPOSING LEFT TURN	STRAIGHT & LEVEL	DAYLIGHT
14354949	PENDLETON CTY SHERIFF DEPT.	PENDLETON	KY0009	KY9	38.8105377	-84.2364935	0.124	3/8/2015	0635	1	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DAWN
14357295	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.5970998	-83.7214699	5.322	12/16/2014	0420	2	1	1	K	CLOUDY	WET	FALSE	HEAD-ON COLLISION	HEAD ON	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
14367049	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6456888	-83.8566302	13.765	3/13/2015	1216	1	0	0	O	RAINING	WET	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
14367051	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.5671536	-83.6402968	0.332	3/13/2015	1759	1	0	0	O	RAINING	WET	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
14369260	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6374451	-83.8048696	10.891	5/4/2015	1253	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	CURVE & GRADE	DAYLIGHT
14369263	MAYSVILLE POLICE DEPARTMENT	MASON	KY1448	MAPLE LEAF	38.6180485	-83.7798036	5.448	5/5/2015	1522	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & GRADE	DAYLIGHT
14379623	PENDLETON CTY SHERIFF DEPT.	PENDLETON	KY0009	KY9	38.8150685	-84.2457765	0.714	4/2/2015	1813	1	0	2	B	RAINING	WET	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & GRADE	DAYLIGHT
14381342	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.6464405	-83.8626364	11.955	4/4/2015	1152	2	0	2	B	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
14391623	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6431319	-83.831526	12.394	5/26/2015	1945	2	0	0	O	RAINING	WET	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
14393558	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6037742	-83.7626193	7.615	1/17/2015	0915	2	0	0	O	CLEAR	SNOW/SLUSH	FALSE	SIDESWIPE COLLISION - SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
14394753	PENDLETON CTY SHERIFF DEPT.	PENDLETON	KY0009	KY9	38.8160425	-84.2465088	0.787	5/3/2015	0230	1	0	1	A	CLOUDY	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
14396905	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6319002	-83.7957107	10.256	5/16/2015	1632	2	0	0	O	CLEAR	WET	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
14397767	KY STATE POLICE, POST 06	PENDLETON	KY0009	AA	38.8533289	-84.2635731	3.718	3/28/2015	1949	2	0	1	B	CLOUDY	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
14398051	KY STATE POLICE, POST 06	BRACKEN	KY0009	AA	38.7208194	-83.9703943	2.921	5/20/2015	2214	1	0	0	O	CLEAR	DRY	FALSE	RAN OFF ROADWAY (1 VEHICLE WITH/EARTH EMBANKMENT/DITCH)	SINGLE VEHICLE	STRAIGHT & HILLCREST	DARK-HWY LIGHTED/OFF
14400781	PENDLETON CTY SHERIFF DEPT.	PENDLETON	KY0009	KY9	38.8549332	-84.2635928	3.828	3/6/2015	1034	2	0	0	O	CLEAR	SNOW/SLUSH	FALSE	SIDESWIPE COLLISION - SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
14401552	MAYSVILLE POLICE DEPARTMENT	MASON	KY0011	KY11	38.6027218	-83.762435	8.417	3/21/2015	1620	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & GRADE	DAYLIGHT
14401558	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6031885	-83.7621918	7.569	3/21/2015	1713	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
14402503	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6032982	-83.7621371	7.574	5/29/2015	1214	2	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE-SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
14404598	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6177841	-83.7801228	8.969	4/22/2015	1507	2	0	1	C	CLEAR	DRY	FALSE	REAR END - OTHER	REAR END	STRAIGHT & LEVEL	DAYLIGHT
14405330	KY STATE POLICE, POST 06	PENDLETON	KY0009	KY9	38.8610159	-84.2641393	4.269	5/24/2015	1225	1	0	2	B	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
14406128	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7950958	-84.2158387	18.429	3/19/2015	0447	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
14406903	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.731745	-84.015873	5.577	4/26/2015	2045	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & HILLCREST	DUSK
14407644	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7636386	-84.1732815	14.863	5/23/2015	2101	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & GRADE	DUSK
14407649	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7334406	-84.0509199	7.475	3/13/2015	1337	2	0	0	O	RAINING	WET	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
14407656	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7338414	-84.107738	10.634	4/23/2015	2325	1

AA Highway Improvements Study Crash Data (2014-2019)																			
Incident Id	Agency Name	County	Roaway Number	Roadway Name	Latitude	Longitude	Milepoint	Collision Date	Collision Time	Units Involved	Number Killed	Number Injured	Severity	Weather	Roadway Condition	Hit and Run?	Directional Analysis	Manner of Collision	Roadway Characteristic	Light Condition
14480291	KY STATE POLICE, POST 08	LEWIS	KY0009	AA	38.5542473	-83.5848229	28.381	8/1/2015	1035	2	0	1	B	CLEAR	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
14480830	KY STATE POLICE, POST 08	LEWIS	KY0009	AA	38.5662326	-83.6332435	31.179	7/30/2015	1358	2	0	4	C	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
14517908	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6387259	-83.8095579	11.157	6/28/2015	1803	2	0	1	C	CLEAR	DRY	FALSE	ANGLE COLLISION - ONE VEHICLE TURNING RIGHT	ANGLE	STRAIGHT & GRADE	DAYLIGHT
14539234	KY STATE POLICE, POST 14	CARTER	KY0009	AA	38.4610169	-83.0820645	11.974	6/27/2015	0449	1	0	0	O	RAINING	WET	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
14555605	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6178617	-83.7799777	8.969	7/12/2015	1904	2	0	0	O	CLOUDY	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
14561981	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6372772	-83.8043595	10.861	7/24/2015	1638	2	0	1	C	CLEAR	DRY	FALSE	REAR END - OTHER	REAR END	STRAIGHT & GRADE	DAYLIGHT
14585314	KY STATE POLICE, POST 08	MASON	KY0009	KY9	38.6447732	-83.8466168	13.218	8/15/2015	1327	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	CURVE & GRADE	DAYLIGHT
14613594	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.5838537	-83.6973406	3.715	8/8/2015	1130	1	0	0	O	CLEAR	DRY	FALSE	RAN OFF ROADWAY (1 VEHICLE WITH/EARTH EMBANKMENT/DITCH)	SINGLE VEHICLE	STRAIGHT & GRADE	DAYLIGHT
14681301	KY STATE POLICE, POST 08	LEWIS	KY0009	AA	38.5556721	-83.5652817	27.212	8/12/2015	1344	2	0	0	O	CLEAR	DRY	TRUE	SIDESWIPE COLLISION - OPPOSITE DIRECTION	SIDESWIPE-OPPOSITE DIRECTION	CURVE & GRADE	DAYLIGHT
14704257	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6003566	-83.7460233	6.674	7/21/2015	1644	2	0	0	O	CLEAR	DRY	FALSE	REAR END ON SHOULDER	REAR END	STRAIGHT & LEVEL	DAYLIGHT
14751680	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0010	KY9	38.6040901	-83.1605475	14.076	7/4/2015	1600	1	0	0	O	CLEAR	DRY	FALSE	RAN OFF ROADWAY (1 VEHICLE WITH/EARTH EMBANKMENT/DITCH)	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
14762361	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.5990022	-83.7357009	6.109	8/3/2015	1220	4	0	2	B	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
14762362	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.582288	-83.677761	2.644	8/3/2015	1053	2	0	0	O	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	REAR END	STRAIGHT & LEVEL	DAYLIGHT
14765490	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6248302	-83.7876793	9.606	7/8/2015	1344	2	0	1	C	RAINING	WET	FALSE	REAR END - OTHER	REAR END	STRAIGHT & GRADE	DAYLIGHT
14781051	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.5827159	-83.6838978	2.967	7/6/2015	0640	2	0	1	B	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
14783755	MAYSVILLE POLICE DEPARTMENT	MASON	KY0011	KY11	38.6032897	-83.761998	8.464	7/21/2015	1556	2	0	0	O	CLEAR	DRY	FALSE	REAR END - ONE VEHICLE TURNING RIGHT	REAR END	STRAIGHT & GRADE	DAYLIGHT
14788188	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6368169	-83.803272	10.794	7/21/2015	1745	2	0	0	O	CLOUDY	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & GRADE	DAYLIGHT
14792300	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.5996969	-83.7407073	6.382	8/7/2015	2200	2	0	1	C	CLEAR	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DARK (UNKNOWN ROADWAY LIGHTING)
14792931	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.5969878	-83.7209201	5.293	7/18/2015	2130	2	0	0	O	RAINING	WET	FALSE	SIDESWIPE COLLISION - SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & GRADE	DARK-HWY LIGHTED/OFF
14798404	CARTER COUNTY SHERIFF DEPT.	CARTER	KY0009	AA	38.399057	-83.0181156	5.615	8/2/2015	1215	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
14799658	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6113247	-83.7732278	8.415	8/6/2015	1754	1	0	1	C	RAINING	WET	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
14799129	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.5788393	-83.6647427	1.901	8/26/2015	2200	1	0	0	O	CLEAR	DRY	FALSE	OTHER COLLISIONS ON SHOULDER	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
14799872	MAYSVILLE POLICE DEPARTMENT	MASON		DOWNING	38.6436502	-83.8357376	0.007	7/31/2015	0920	2	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE-SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
14799874	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6317169	-83.7954429	10.237	7/31/2015	1556	2	0	0	O	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	REAR END	STRAIGHT & LEVEL	DAYLIGHT
14799875	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6326673	-83.7968592	10.339	7/31/2015	1648	2	0	0	O	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	REAR END	STRAIGHT & LEVEL	DAYLIGHT
14800481	KY STATE POLICE, POST 14	GREENUP	KY0010	AA	38.6330177	-82.9929916	4.516	7/28/2015	0730	1	0	0	O	FOG	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DAWN
17421874	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	KY9	38.5726971	-83.4331368	18.554	9/15/2015	1957	2	0	4	B	CLEAR	DRY	FALSE	REAR END - ONE VEHICLE TURNING LEFT	REAR END	STRAIGHT & LEVEL	DUSK
17421875	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	KY9	38.5777813	-83.323184	10.568	9/10/2015	0908	1	0	0	O	RAINING	WET	FALSE	RAN OFF ROADWAY (1 VEHICLE WITH/EARTH EMBANKMENT/DITCH)	SINGLE VEHICLE	STRAIGHT & GRADE	DAYLIGHT
17421876	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	KY9	38.5866065	-83.4087579	16.812	9/14/2015	0709	1	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DAWN
17424197	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6325463	-83.7966769	10.326	10/24/2015	1801	2	0	0	O	CLEAR	DRY	FALSE	VEHICLE BACKING NON INTERSECTION	BACKING	STRAIGHT & LEVEL	DAYLIGHT
17425787	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.5878635	-83.3818114	15.326	8/2/2015	2240	1	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
17425794	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	KY9	38.5568173	-83.5510009	26.42	8/26/2015	1547	2	1	2	K	CLEAR	DRY	FALSE	HEAD-ON COLLISION	HEAD ON	STRAIGHT & GRADE	DAYLIGHT
17426008	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6492396	-83.8733557	14.7	10/28/2015	2015	1	0	0	O	CLOUDY	WET	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
17426697	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6314216	-83.7950806	10.21	10/19/2015	1525	2	0	0	O	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	REAR END	STRAIGHT & LEVEL	DAYLIGHT
17426747	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.5815493	-83.6738897	2.43	10/30/2015	2140	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
17427930	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.5822497	-83.6776301	2.636	11/19/2015	1848	1	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
17431153	KY STATE POLICE, POST 06	BRACKEN	KY0009	AA	38.7315825	-84.0152753	5.544	9/3/2015	2249	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY LIGHTED/ON
17431581	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6249138	-83.7875783	9.611	10/21/2015	0835	2	0	0	O	CLEAR	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
17431653	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6534121	-83.8872943	15.514	10/2/2015	1411	2	0	3	A	RAINING	WET	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
17431763	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6289521	-83.7920998	9.979	9/17/2015	1228	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
17432292	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6401185	-83.8147404	11.448	9/22/2015	1536	2	0	0	O	CLEAR	DRY	FALSE	ANGLE COLLISION - OTHER	ANGLE	STRAIGHT & GRADE	DAYLIGHT
17432378	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6008114	-83.1488247	6.83	11/10/2015	2011	2	0	1	B	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
17433490	GREENUP COUNTY SHERIFF DEPT.	GREENUP	KY0010	AA	38.6277289	-82.9543823	6.781	11/4/2015	1705	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & HILLCREST	DAYLIGHT
17437730	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	KY9	38.5872173	-83.3852748	15.519	11/5/2015	0608	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY LIGHTED/OFF
17438168	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.5998913	-83.742409	6.475	10/21/2015	0730	2	0	3	A	CLEAR	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DAWN
17439924	KY STATE POLICE, POST 14	GREENUP	KY0010	AA	38.6325817	-82.9900198	4.677	9/4/2015	0517	2	0	0	O	FOG	DRY	FALSE	1 VEHICLE PARKED POSITION (NOT PARKING LOT/DRIVEWAY)	SIDESWIPE-SAME DIRECTION	CURVE & LEVEL	DARK-HWY NOT LIGHTED
17440092	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6311286	-83.7947085	10.182	11/23/2015	1727	2	0	2	C	CLEAR	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
17440922	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6459044	-83.8592071	13.905	10/31/2015	1630	1	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DAYLIGHT
17440923	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.5985775	-83.732442	5.898	10/31/2015	2123	2	0	2	B	CLOUDY	DRY	FALSE	REAR END - OTHER	REAR END	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
17441000	KY STATE POLICE, POST 14	CARTER	KY0009	AA	38.459736	-83.0702491	11.299	10/13/2015	0613	2	0	0	O	FOG	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
17441517	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.5801466	-83.6691613	2.156	11/27/2015	2100	1	0	0	O	CLOUDY	WET	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
17441518	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6244517	-83.7870858	9.569	11/25/2015	1749	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
17441791	MASON COUNTY SHERIFF	MASON	KY0009	MARTIN LUTHER KING	38.6311358	-83.7947389	10.183	11/13/2015	1935	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
17444489	KY STATE POLICE, POST 08	MASON	KY0009	KY9	38.6741013	-83.9243579	18.014	12/5/2015	2246	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
17445054	CARTER COUNTY SHERIFF DEPT.	CARTER	KY0009	AA	38.4077019	-83.029888	6.495	11/14/2015	1904	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL IN INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
17446987	KY STATE POLICE, POST 14	CARTER	KY0009	AA	38.358583	-82.9589802	1.155	11/3/2015	0645	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & HILLCREST	DAYLIGHT
17447299	KY STATE POLICE, POST 08	LEWIS	KY0009	AA	38.5658584	-83.63077	31.039	9/6/2015	1931	1	0	0	O	CLEAR	DRY	FALSE	RAN OFF ROADWAY (1 VEHICLE WITH/EARTH EMBANKMENT/DITCH)	SINGLE VEHICLE	CURVE & GRADE	DAYLIGHT
17450355	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.5998772	-83.7424168	6.475	10/8/2015	1838	2	0	1	B	CLEAR	DRY	FALSE	ANGLE COLLISION - BOTH VEHICLES GOING STRAIGHT	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
17453195	PENDLETON CTY SHERIFF DEPT.	PENDLETON	KY0009	AA	38.8250839	-84.2586906	1.693	9/4/2015	1409	2	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE COLLISION - OPPOSITE DIRECTION	SIDESWIPE-OPPOSITE DIRECTION	CURVE & LEVEL	DAYLIGHT
17454543	KY STATE POLICE, POST 06	BRACKEN	KY0009	AA	38.7740412	-84.2065751	16.857	8/30/2015	1441	1	0	3	B	CLEAR	DRY	FALSE	RAN OFF ROADWAY (1 VEHICLE WITH/EARTH EMBANKMENT/DITCH)	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
17456591	MAYSVILLE POLICE DEPARTMENT	MASON	US0068		38.6434326	-83.8356385	0.218	9/4/2015	1725	2	0	0	O	CLEAR	DRY	FALSE	REAR END - OTHER	REAR END	CURVE & LEVEL	DAYLIGHT
17456864	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.5975584	-83.7230914	5.413	9/28/2015	0800	2	0	0	O	CLEAR	DRY	TRUE	COLLISION WITH NON-FIXED OBJECT	REAR END	STRAIGHT & LEVEL	DAYLIGHT
17456864	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.5975584	-83.7230914	5.413	9/28/2015	0800	2	0	0	O	CLEAR	DRY	TRUE	COLLISION WITH NON-FIXED OBJECT	REAR END	STRAIGHT & LEVEL	DAYLIGHT
17459744	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6335879	-83.7982105	10.437	9/2/2015	1715	2	0	0	O	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	OPPOSING LEFT TURN	STRAIGHT & LEVEL	DAYLIGHT
17460136	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.5840966	-83.6984569	3.777	12/6/2015	1433	2	0	6	A	CLEAR	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
17460138	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6468385	-83.86483	14.215	12/1/2015	2023	2	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE COLLISION - SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
17460741	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.649349	-83.873385	14.703	11/23/2015	2237	1	0	0	O	CLEAR	DRY	TRUE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
17462386	KY STATE POLICE, POST 08	LEWIS	KY0009	AA	38.5858918	-83.4009759	16.38	11/20/2015	1200	2	1	1	K	CLEAR	DRY	FALSE	HEAD-ON COLLISION	HEAD ON	STRAIGHT & LEVEL	DAYLIGHT
17463887	MASON COUNTY SHERIFF	MASON	US0062	US62	38.6321899	-83.7953447	14.413	11/5/2015	0718	2	0	0	O	CLEAR	DRY	FALSE	REAR END - OTHER	REAR END	STRAIGHT & GRADE	DAYLIGHT
17464176	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.8054836	-84.2261025	19.316	9/10/2015	0932	1	0	0	O	CLOUDY	WET	FALSE	OCCUPANT FELL FROM MOVING VEHICLE	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
17464178	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7626782	-84.1686957	14.607	7/12/2015	1900	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & GRADE	DAYLIGHT
17472116	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6532608	-83.8841122	15.335	11/8/2015	1803	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY LIGHTED/OFF
17477465	GREENUP COUNTY SHERIFF DEPT.	GREENUP	KY0010	AA	38.627588	-82.966411	6.062	11/2/2015	0618	1	0	1	C	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DAYLIGHT
17479626	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7478925	-84.1264466	12.089	10/4/2015	2000	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & HILLCREST	DARK-HWY LIGHTED/OFF
17479632	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.767996	-84.1940168	16.022	10/15/2015	1417	2	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE COLLISION - SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & GRADE	DAYLIGHT
17479801	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7339246	-84.067241	8.383	11/22/2015	2007	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
17479802	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7350783	-84.109448	10.758	11/20/2015	1834	1	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	CURVE & GRADE	DARK-HWY NOT LIGHTED
17479808	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7571881	-84.1475764	13.398	11/4/2015	1955	1	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & HILLCREST	DARK-HWY LIGHTED/ON
17480008	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7328448	-84.0708648	8.583	11/11/2015	1942	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
17480009	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7325699	-84.1008389	10.259	11/14/2015	1140	2	0	0	O	CLEAR	DRY	FALSE	ANGLE COLLISION - ONE VEHICLE TURNING LEFT	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
17480041	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.5825441	-83.6797711	2.752	12/16/2015	1730	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
17481468	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.5988952	-83.6941845	6.027	11/3/2015	1815	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
17482920	CARTER COUNTY SHERIFF DEPT.	CARTER	KY0009	AA	38.3792796	-83.0012226	3.914	10/22/2015	2056	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	CURVE & GRADE	DAYLIGHT
17483213	VANCEBURG POLICE DEPARTMENT	LEWIS	KY0009	AA	38.5871965	-83.3269413	11.362	11/2/2015	0545	1	0	0	O	FOG	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY LIGHTED/OFF
17485289	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	KY9	38.5562618	-83.5906478	28.729	10/9/2015	1547	2	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE-SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
17491109	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	KY9	38.586654	-83.3527754	13.549	1/4/2016	0751	1	0	0	O	SNOWING	ICE	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
17491382	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	KY9	38.5753983	-83.3055836	9.605	1/4/2016	0751	2	0	0	O	SNOWING	ICE	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & GRADE	DAYLIGHT
17491568	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6460159	-83.8594824	13.921	11/13/2015	1750	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & HILLCREST	DARK-HWY NOT LIGHTED
17491912	KY STATE POLICE, POST 14	GREENUP	KY0010	AA	38.6385748	-82.8934305	10.595	12/23/2015	1730	2	0	0	O	CLEAR	WET	FALSE	REAR END - ONE VEHICLE TURNING LEFT	REAR END	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
17493886	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7591739	-84.15241	13.695	11/28/2015	1440	1	0	0	O	RAINING	WET	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & GRADE	DAYLIGHT
17493888	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7593669	-84.1531004	13.735	11/30/2015	0515	1	0	0	O	CLOUDY	WET	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & HILLCREST	DARK-HWY NOT LIGHTED
17494221	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7312451	-84.0123936	5.387	12/10/2015	0830	1	0	0	O	FOG WITH RAIN	WET	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
17494346	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6327238	-83.7969519	10.345	12/10/2015	1133	2

AA Highway Improvements Study Crash Data (2014-2019)																		
Incident Id	Agency Name	County	Roaway Number	Roadway Name	Latitude	Longitude	Milepoint	Collision Date	Collision Time	Units Involved	Number Killed	Number Injured	Severity	Weather	Roadway Condition	Hit and Run?	Directional Analysis	Manner of Collision	Roadway Characteristic	Light Condition
17535143	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6468463	-83.8650417	14.226	2/28/2016	1852	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
17535581	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6478323	-83.8686656	14.431	3/4/2016	0610	2	0	1	C	SNOWING	WET	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
17536098	MASON COUNTY SHERIFF	MASON	KY0009	MARTIN LUTHER KING	38.6035599	-83.7625754	7.603	3/10/2016	1210	2	0	0	O	CLOUDY	DRY	FALSE	1 VEHICLE ENTERING OR LEAVING PARKED POSITION (NOT PARKING LOT)	ANGLE	CURVE & LEVEL	DAYLIGHT
17536100	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6419967	-83.8219986	11.857	3/7/2016	1242	2	0	1	B	CLOUDY	DRY	FALSE	OVERTURNED IN ROADWAY	REAR END	STRAIGHT & GRADE	DAYLIGHT
17536252	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6534855	-83.8874172	15.522	2/22/2016	1445	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
17536939	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6510621	-83.8787967	15.027	2/14/2016	1650	3	0	0	O	SNOWING	SNOW/SLUSH	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
17536940	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6010574	-83.7517583	6.99	2/17/2016	2030	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY LIGHTED/OFF
17536990	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7627393	-84.1689872	14.624	1/26/2016	1750	1	0	0	O	CLOUDY	WET	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	SINGLE VEHICLE	STRAIGHT & GRADE	DUSK
17537008	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7306036	-83.9958099	4.471	2/12/2016	0715	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	CURVE & GRADE	DAWN
17537388	KY STATE POLICE, POST 06	BRACKEN	KY0009	AA	38.6940127	-83.9516839	0.602	2/25/2016	1652	2	0	0	O	SNOWING	WET	FALSE	COLLISION WITH NON-FIXED OBJECT	SIDESWIPE-SAME DIRECTION	CURVE & GRADE	DAYLIGHT
17537528	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6274726	-83.7906092	9.847	2/23/2016	2222	2	0	0	O	RAINING	WET	FALSE	ANGLE COLLISION - ONE VEHICLE TURNING RIGHT	ANGLE	STRAIGHT & GRADE	DARK-HWY LIGHTED/ON
17541047	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6338085	-83.798564	10.461	3/16/2016	1104	2	0	0	O	CLEAR	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
17541156	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6497372	-83.8747306	14.78	3/25/2016	2029	2	0	2	C	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	OPPOSING LEFT TURN	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
17541417	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6301139	-83.7932906	10.08	3/28/2016	1142	2	0	0	O	CLOUDY	DRY	FALSE	SIDESWIPE COLLISION - SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & GRADE	DAYLIGHT
17543244	KY STATE POLICE, POST 06	PENDLETON	KY0009	AA	38.8100713	-84.2350204	0.042	2/19/2016	1810	2	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE COLLISION - SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & HILLCREST	DARK-HWY NOT LIGHTED
17546216	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.5832384	-83.6901267	3.322	3/16/2016	0545	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
17548172	CARTER COUNTY SHERIFF DEPT.	CARTER	KY0009	AA	38.4615057	-83.1055574	13.259	2/22/2016	0800	2	0	1	C	CLEAR	WET	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
17550194	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6427794	-83.8288857	12.245	4/11/2016	1635	2	0	0	O	RAINING	WET	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	OPPOSING LEFT TURN	STRAIGHT & LEVEL	DAYLIGHT
17550435	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6001057	-83.7433159	6.526	3/5/2016	1959	1	0	0	O	FOG WITH RAIN	WET	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
17550932	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6318809	-83.7956012	10.256	4/4/2016	1810	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
17554881	PENDLETON CTY SHERIFF DEPT.	PENDLETON	KY0009	KY9	38.8549639	-84.2636394	3.831	4/6/2016	1728	2	0	0	O	RAINING	WET	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & GRADE	DAYLIGHT
17556694	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6652906	-83.9109127	17.066	3/30/2016	1814	2	0	2	A	CLEAR	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
17557901	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6177363	-83.7800197	8.964	3/24/2016	1824	3	0	0	O	RAINING	WET	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
17558709	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6505162	-83.8771616	14.921	3/28/2016	1839	2	0	0	O	CLEAR	DRY	FALSE	HEAD-ON COLLISION	HEAD ON	STRAIGHT & LEVEL	DAYLIGHT
17561521	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6178113	-83.7800582	8.969	4/7/2016	1230	2	0	0	O	RAINING	WET	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
17561522	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6275551	-83.790476	9.853	4/7/2016	1341	2	0	0	O	RAINING	WET	FALSE	REAR END - OTHER	REAR END	STRAIGHT & GRADE	DAYLIGHT
17561780	PENDLETON CTY SHERIFF DEPT.	PENDLETON	KY0009	KY9	38.8597935	-84.2640083	4.166	3/19/2016	1157	2	0	2	B	RAINING	WET	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & GRADE	DAYLIGHT
17563245	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6342423	-83.7992092	10.508	4/14/2016	1619	2	0	2	C	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	OPPOSING LEFT TURN	STRAIGHT & HILLCREST	DAYLIGHT
17563376	KY STATE POLICE, POST 14	GREENUP	KY0010	AA	38.6460856	-82.8781366	11.582	4/13/2016	0905	2	0	0	O	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	OPPOSING LEFT TURN	STRAIGHT & LEVEL	DAYLIGHT
17563500	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6178647	-83.7799604	8.968	4/20/2016	0755	2	0	0	O	CLEAR	DRY	FALSE	REAR END - ONE VEHICLE TURNING RIGHT	REAR END	STRAIGHT & LEVEL	DAYLIGHT
17566303	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.5635705	-83.6191079	30.369	3/28/2016	1653	2	0	0	O	CLEAR	DRY	FALSE	REAR END - ONE VEHICLE TURNING LEFT	REAR END	STRAIGHT & LEVEL	DAYLIGHT
17566334	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	KY9	38.5723381	-83.4433035	19.135	3/31/2016	1602	2	0	0	O	CLEAR	DRY	FALSE	OCCUPANT FELL FROM MOVING VEHICLE	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
17566756	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	KY9	38.5864864	-83.406915	16.712	2/1/2016	0707	2	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE COLLISION - OPPOSITE DIRECTION	SIDESWIPE-OPPOSITE DIRECTION	CURVE & LEVEL	DAWN
17566759	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.5746655	-83.3129715	10.009	2/15/2016	1800	1	0	0	O	RAINING	ER (STANDING OR MOV	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	CURVE & GRADE	DAWN
17566834	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0010	KY10	38.5932571	-83.2483212	8.898	2/10/2016	2234	2	0	2	C	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
17566836	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.5753657	-83.3052368	9.586	2/11/2016	2208	1	0	1	C	CLEAR	ER (STANDING OR MOV	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	CURVE & HILLCREST	DARK-HWY NOT LIGHTED
17566841	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	GRAYSON	38.5755174	-83.2771114	8.033	3/9/2016	2047	1	0	1	A	CLEAR	DRY	FALSE	COLLISION WITH FIXED OBJECT IN INTERSECTION - FIRST EVENT COLLISION 09 - 32	SINGLE VEHICLE	STRAIGHT & HILLCREST	DARK-HWY LIGHTED/ON
17566867	KY STATE POLICE, POST 14	GREENUP	KY0010	AA	38.6460888	-82.8789152	11.521	4/12/2016	0806	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
17573016	KY STATE POLICE, POST 14	GREENUP	KY0010	AA	38.6353543	-82.99689	4.261	4/22/2016	1519	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
17573941	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6178015	-83.7801077	8.97	4/23/2016	1822	2	0	1	B	CLEAR	DRY	FALSE	ANGLE COLLISION - ONE VEHICLE TURNING LEFT	ANGLE	STRAIGHT & GRADE	DAYLIGHT
17576114	CARTER COUNTY SHERIFF DEPT.	CARTER	KY0009	AA	38.3692761	-82.9844829	2.768	4/10/2016	1119	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
17577092	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7306599	-84.0932224	4.342	3/3/2016	1820	1	0	0	O	SNOWING	ICE	FALSE	OTHER COLLISIONS ON SHOULDER	SINGLE VEHICLE	CURVE & GRADE	DUSK
17577230	GREENUP COUNTY SHERIFF DEPT.	GREENUP	KY0010	AA	38.6227366	-82.917086	8.888	2/19/2016	0640	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
17585640	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6312071	-83.7947888	10.188	4/30/2016	1216	2	0	0	O	RAINING	WET	FALSE	REAR END IN TRAFFIC ONE VEHICLE STOPPED	REAR END	STRAIGHT & GRADE	DAYLIGHT
17587471	VANCEBURG POLICE DEPARTMENT	LEWIS	KY0009	AA	38.5850152	-83.3267735	10.872	3/15/2016	1630	2	0	0	O	CLEAR	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
17591506	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6034804	-83.7627579	7.609	5/2/2016	1540	2	0	0	O	CLOUDY	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	REAR END	STRAIGHT & LEVEL	DAYLIGHT
17615269	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6559707	-83.8973778	16.088	5/8/2016	1400	2	0	0	O	RAINING	WET	FALSE	SIDESWIPE COLLISION - SAME DIRECTION	SIDESWIPE-SAME DIRECTION	CURVE & LEVEL	DAYLIGHT
17616158	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6251565	-83.7878744	9.634	5/6/2016	1004	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & GRADE	DAYLIGHT
17632662	CARTER COUNTY SHERIFF DEPT.	CARTER	KY0009	AA	38.3749855	-82.9966491	3.537	4/25/2016	1408	2	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE COLLISION - SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
17664874	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.601725	-83.7557516	7.211	5/18/2016	0730	1	0	0	O	RAINING	WET	FALSE	RAN OFF ROADWAY (1 VEHICLE WITH/EARTH EMBANKMENT/DITCH)	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
17670101	MAYSVILLE POLICE DEPARTMENT	MASON	US0062	US62	38.6317921	-83.7960954	14.368	5/18/2016	1144	2	0	0	O	CLOUDY	DRY	FALSE	REAR END - OTHER	REAR END	STRAIGHT & LEVEL	DAYLIGHT
17670162	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6299092	-83.7931534	10.069	5/19/2016	1306	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & GRADE	DAYLIGHT
17684809	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6007489	-83.748985	6.837	5/23/2016	1030	1	0	0	O	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
17686739	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0010	KY10	38.5943829	-83.1960723	11.805	4/5/2016	0930	3	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH FIXED OBJECT IN INTERSECTION - FIRST EVENT COLLISION 09 - 32	REAR END	CURVE & LEVEL	DAYLIGHT
17726433	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6534994	-83.8876425	15.533	5/14/2016	0625	2	0	3	A	RAINING	WET	FALSE	REAR END - OTHER	REAR END	STRAIGHT & LEVEL	DAYLIGHT
17743559	MASON COUNTY SHERIFF	MASON	KY3313	TAYLOR MILL	38.5996894	-83.7426695	7.812	6/5/2016	1712	2	0	0	O	CLEAR	DRY	FALSE	VEHICLE BACKING IN INTERSECTION	BACKING	STRAIGHT & LEVEL	DAYLIGHT
17747943	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6318127	-83.7955418	10.246	6/5/2016	1637	2	0	0	O	CLEAR	DRY	TRUE	OPPOSITE DIRECTION - BOTH VEHICLES GOING STRAIGHT AHEAD	SIDESWIPE-OPPOSITE DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
17758779	KY STATE POLICE, POST 08	LEWIS	KY0009	AA	38.553054	-83.5700199	27.526	6/4/2016	2110	1	0	0	O	RAINING	WET	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	CURVE & LEVEL	DARK-HWY NOT LIGHTED
17781626	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6492422	-83.8731676	14.69	6/8/2016	1640	3	0	1	C	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
17798112	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6552713	-83.8959083	15.997	4/18/2016	1450	4	1	2	K	CLEAR	DRY	FALSE	SIDESWIPE COLLISION - OPPOSITE DIRECTION	SIDESWIPE-OPPOSITE DIRECTION	CURVE & LEVEL	DAYLIGHT
17798577	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	KY9	38.6032037	-83.7619086	7.558	6/16/2016	1055	2	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE-SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
17806246	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	AA	38.6465686	-83.8307426	0.306	6/17/2016	1620	2	0	0	O	CLEAR	DRY	FALSE	REAR END - OTHER	REAR END	CURVE & GRADE	DAYLIGHT
17807369	CARTER COUNTY SHERIFF DEPT.	CARTER	KY0009	AA	38.3703956	-82.9888641	3.008	6/14/2016	1140	2	0	0	O	CLEAR	DRY	TRUE	SIDESWIPE COLLISION - SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
17808772	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.5841805	-83.6983642	3.773	5/2/2016	1120	2	1	0	K	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & GRADE	DAYLIGHT
17840195	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0010	KY9	38.5911112	-83.2281769	9.973	12/25/2014	1459	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
17840674	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.5867101	-83.3890805	15.729	6/13/2016	0733	2	0	0	O	CLEAR	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
17867041	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6336403	-83.7983037	10.443	7/1/2016	0755	2	0	0	O	CLEAR	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
17879018	MASON COUNTY SHERIFF	MASON	KY0011	KY11	38.603094	-83.762028	8.452	7/1/2016	1645	2	0	0	O	RAINING	WET	FALSE	REAR END - OTHER	REAR END	STRAIGHT & GRADE	DAYLIGHT
17879019	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6812017	-83.9323723	18.664	7/3/2016	2124	1	0	0	O	RAINING	WET	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	CURVE & GRADE	DARK-HWY NOT LIGHTED
17889982	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY3311	MONTGOMERY	38.606754	-83.154551	6.162	6/29/2016	1636	2	0	1	A	CLEAR	DRY	FALSE	VEHICLE BACKING IN INTERSECTION	BACKING	STRAIGHT & LEVEL	DAYLIGHT
17890612	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0010	KY10	38.5943118	-83.1852666	12.394	6/15/2016	2330	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
17901325	CARTER COUNTY SHERIFF DEPT.	CARTER	KY0009	AA	38.4158619	-83.0553744	8.053	7/8/2016	1115	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
17916704	MAYSVILLE POLICE DEPARTMENT	MASON	US0062	US62	38.6319089	-83.7956987	14.388	7/12/2016	0800	2	0	0	O	CLOUDY	DRY	FALSE	SIDESWIPE-SAME DIRECTION	SIDESWIPE-SAME DIRECTION	CURVE & LEVEL	DAYLIGHT
17929446	CARTER COUNTY SHERIFF DEPT.	CARTER	KY0009	AA	38.3604643	-82.9644287	1.479	7/16/2016	0515	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
17946859	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6372676	-83.8043226	10.859	7/11/2016	1534	2	0	1	B	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	CURVE & LEVEL	DAYLIGHT
17946860	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.615492	-83.7771957	8.746	7/15/2016	1503	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & GRADE	DAYLIGHT
17952051	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.5862758	-83.3947211	16.036	7/18/2016	2334	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
17961305	KY STATE POLICE, POST 08	MASON	KY0009	KY9	38.5924167	-83.7126667	4.739	7/22/2016	1024	2	0	0	O	CLEAR	DRY	FALSE	1 VEHICLE PARKED POSITION (NOT PARKING LOT/DRIVEWAY)	ANGLE	STRAIGHT & HILLCREST	DAYLIGHT
17973132	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6324889	-83.7965901	10.319	7/26/2016	1200	2	0	1	C	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	OPPOSING LEFT TURN	STRAIGHT & LEVEL	DAYLIGHT
17975807	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.637186	-83.804095	10.845	7/24/2016	1233	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
17984072	CARTER COUNTY SHERIFF DEPT.	CARTER	KY0009	AA	38.4598159	-83.0703999	11.308	7/28/2016	1130	2	0	5	B	RAINING	WET	FALSE	HEAD-ON COLLISION	HEAD ON	STRAIGHT & LEVEL	DAYLIGHT
17990756	KY STATE POLICE, POST 14	CARTER	KY0009	AA	38.3554988	-82.9476327	0.503	7/30/2016	2100	1	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & HILLCREST	DARK-HWY NOT LIGHTED
17990758	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6391036	-83.810992	11.233	7/30/2016	1642	2	0	4	C	CLEAR	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & GRADE	DAYLIGHT
17996982	GREENUP COUNTY SHERIFF DEPT.	GREENUP	KY0010	AA	38.625971	-83.0284752	2.298	7/19/2016	0100	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
18001766	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6318857	-83.7956796	10.254	8/2/2016	1315	2	0	1	C	CLEAR	ICE	FALSE	REAR END - OTHER	REAR END	CURVE & LEVEL	DAYLIGHT
18008246	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0010	KY10	38.607056	-83.1539656	14.403	7/19/2016	0640	2	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE COLLISION - OPPOSITE DIRECTION	SIDESWIPE-OPPOSITE DIRECTION	STRAIGHT & LEVEL	DAWN
18060413	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6332823	-83.7977716	10.405	8/15/2016	1045	2	0	0	O	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	OPPOSING LEFT TURN	STRAIGHT & LEVEL	DAYLIGHT
18067157	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.582764	-83.6837526	2.961	8/15/2016	1800	2	0	2	B	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
18067902	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.5748229	-83.3028911	9.462	8/8/2016	2035	1	0	0	O	CLEAR	DRY	FALSE	RAN OFF ROADWAY (1 VEHICLE WITH/EARTH EMBANKMENT/DITCH)	SINGLE VEHICLE	CURVE & HILLCREST	DAWN
18073923	KY STATE POLICE, POST 08	MASON	KY0011	KY11	38.603049	-83.7620293	8.474	8/17/2016	1452	3	0	0	O	RAINING	WET	FALSE	REAR END - OTHER	REAR END	STRAIGHT & LEVEL	DAYLIGHT
18090156	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7667396	-84.1880302	15.687	3/27/2016	1234	3	0	9	A	CLEAR	DRY	FALSE	REAR END - ONE VEHICLE TURNING LEFT	REAR END	STRAIGHT & LEVEL	DAYLIGHT
18090163	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7089243	-83.9555001	1.679	4/8/2016	1000	1	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	CURVE & GRADE	DAYLIGHT
18090171	BRAC

AA Highway Improvements Study Crash Data (2014-2019)																		
Incident Id	Agency Name	County	Roaway Number	Roadway Name	Latitude	Longitude	Milepoint	Collision Date	Collision Time	Units Involved	Number Killed	Number Injured	Severity	Weather	Roadway Condition	Hit and Run?	Directional Analysis	Manner of Collision	Roadway Characteristic	Light Condition
18322275	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.6504308	-83.8768873	14.905	10/3/2016	1125	2	0	0	O	CLEAR	DRY	FALSE	1 VEHICLE PARKED POSITION (NOT PARKING LOT/DRIVEWAY)	SIDESWIPE-OPPOSITE DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
18322277	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6655316	-83.9113453	17.095	10/6/2016	2230	1	0	0	O	CLEAR	DRY	FALSE	RAN OFF ROADWAY (1 VEHICLE WITH/EARTH EMBANKMENT/DITCH)	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
18322278	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6505094	-83.8771701	14.921	10/7/2016	1120	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
18322735	CARTER COUNTY SHERIFF DEPT.	CARTER	KY0009	AA	38.3580716	-82.9577397	1.081	10/5/2016	1840	2	0	0	O	CLOUDY	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & GRADE	DAYLIGHT
18411020	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6372963	-83.8044443	10.865	10/10/2016	1223	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & GRADE	DAYLIGHT
18411027	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6375939	-83.8060662	10.956	10/10/2016	1815	2	0	1	A	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & GRADE	DAYLIGHT
18448816	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6562262	-83.8979266	16.122	10/14/2016	0730	1	0	0	O	CLEAR	DRY	FALSE	RAN OFF ROADWAY (1 VEHICLE WITH/EARTH EMBANKMENT/DITCH)	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
18458890	CARTER COUNTY SHERIFF DEPT.	CARTER	KY0009	AA	38.3597924	-82.9619544	1.337	10/19/2016	0201	1	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
18461366	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6179492	-83.7803125	8.986	10/16/2016	0920	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC ONE VEHICLE STOPPED	REAR END	STRAIGHT & LEVEL	DAYLIGHT
18461370	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6323749	-83.7964148	10.307	10/19/2016	0645	2	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE COLLISION - SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
18462156	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6460649	-83.8595745	13.926	10/8/2016	0732	2	0	0	O	CLOUDY	DRY	FALSE	HEAD-ON COLLISION	HEAD ON	STRAIGHT & GRADE	DAWN
18481626	GREENUP COUNTY SHERIFF DEPT.	GREENUP	KY0010	AA	38.6221835	-82.9264694	8.361	10/17/2016	0254	1	0	0	O	FOG	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
18481628	GREENUP COUNTY SHERIFF DEPT.	GREENUP	KY0010	AA	38.6277632	-82.9617223	6.31	10/23/2016	2112	1	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & HILLCREST	DARK-HWY NOT LIGHTED
18481816	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6275657	-83.7904198	9.851	10/20/2016	1325	2	0	0	O	RAINING	WET	FALSE	REAR END - ONE VEHICLE STOPPED	REAR END	STRAIGHT & GRADE	DAYLIGHT
18481818	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6372785	-83.8043644	10.861	10/21/2016	1048	2	0	4	A	CLOUDY	DRY	FALSE	OPPOSING LEFT TURN	OPPOSING LEFT TURN	STRAIGHT & LEVEL	DAYLIGHT
18482680	KY STATE POLICE, POST 14	CARTER	KY0009	AA	38.5007074	-83.1786718	18.183	10/20/2016	0427	1	0	1	C	FOG	DRY	FALSE	OTHER COLLISIONS ON SHOULDER	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
18502847	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6326013	-83.7967756	10.332	10/27/2016	1600	2	0	0	O	CLOUDY	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
18513543	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6408958	-83.8176297	11.605	10/28/2016	1910	2	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	HEAD ON	STRAIGHT & GRADE	DARK-HWY LIGHTED/ON
18515860	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6457251	-83.8560875	13.736	10/31/2016	0330	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
18519572	GREENUP COUNTY SHERIFF DEPT.	GREENUP	KY0007	KY7	38.6221938	-82.9277969	10.652	10/29/2016	1915	3	0	0	O	CLEAR	DRY	FALSE	ANGLE COLLISION - OTHER	ANGLE	STRAIGHT & HILLCREST	DARK-HWY NOT LIGHTED
18538276	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6425558	-83.8268489	12.131	11/1/2016	1428	2	0	0	O	CLEAR	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
18547244	CARTER COUNTY SHERIFF DEPT.	CARTER	KY0009	AA	38.4670906	-83.1276746	14.55	10/31/2016	0231	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	CURVE & GRADE	DARK-HWY NOT LIGHTED
18548751	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6445402	-83.845298	13.145	11/1/2016	1920	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DUSK
18570743	KY STATE POLICE, POST 06	BRACKEN	KY0009	AA	38.7312768	-84.0753729	8.84	11/7/2016	2040	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
18571252	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009		38.6433983	-83.8357499	0.013	11/3/2016	1545	2	0	0	O	RAINING	WET	FALSE	REAR END - ON RAMP	REAR END	STRAIGHT & GRADE	DAYLIGHT
18571254	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6333833	-83.79792	10.415	11/4/2016	1310	2	0	0	O	CLOUDY	ICE	FALSE	REAR END IN TRAFFIC ONE VEHICLE STOPPED	REAR END	CURVE & LEVEL	DAYLIGHT
18573600	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6307008	-83.7940235	10.135	11/8/2016	1812	4	0	0	O	RAINING	WET	FALSE	REAR END IN TRAFFIC ONE VEHICLE STOPPED	REAR END	STRAIGHT & LEVEL	DARK-HWY LIGHTED/OFF
18578544	PENDLETON CTY SHERIFF DEPT.	PENDLETON	KY0009	KY9	38.811263	-84.2391025	0.267	11/8/2016	1903	2	0	0	O	RAINING	WET	FALSE	SIDESWIPE-SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & GRADE	DARK-HWY LIGHTED/OFF
18580642	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.612165	-83.7738832	8.455	11/9/2016	1923	1	0	1	B	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY LIGHTED/OFF
18594241	MAYSVILLE POLICE DEPARTMENT	MASON	US0062	US62	38.6318989	-83.7957119	14.387	11/12/2016	2253	2	0	0	O	CLEAR	DRY	FALSE	ANGLE COLLISION - BOTH VEHICLES GOING STRAIGHT	ANGLE	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
18597027	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.5960295	-83.7184199	5.145	11/11/2016	1537	1	0	0	O	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
18600399	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7599255	-84.1558732	13.89	9/17/2016	0001	2	0	2	C	CLEAR	DRY	FALSE	SIDESWIPE COLLISION - OPPOSITE DIRECTION	SIDESWIPE-OPPOSITE DIRECTION	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
18600422	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.8041201	-84.2243336	19.182	10/28/2016	0657	6	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
18600425	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7662371	-84.1861483	15.58	11/3/2016	1900	1	0	0	O	CLOUDY	WET	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY LIGHTED/OFF
18600426	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7601516	-84.1566071	13.932	11/2/2016	0457	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
18600428	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7170742	-83.9615932	2.341	11/9/2016	1346	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DAYLIGHT
18600429	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7940394	-84.2152283	18.354	11/11/2016	1245	2	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE-SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
18600431	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7726116	-84.2056359	16.746	11/12/2016	1835	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
18600432	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7316735	-84.0149917	5.53	11/15/2016	0530	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY LIGHTED/ON
18600434	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.728306	-83.9864424	3.942	10/8/2016	1933	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	CURVE & GRADE	DARK-HWY NOT LIGHTED
18600435	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7312344	-84.0862867	9.461	10/16/2016	1910	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	CURVE & GRADE	DARK-HWY NOT LIGHTED
18600436	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7718136	-84.2048292	16.661	10/16/2016	1230	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	CURVE & GRADE	DARK-HWY NOT LIGHTED
18600439	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7646279	-84.1780183	15.128	11/9/2016	0306	2	0	0	O	CLOUDY	WET	TRUE	SIDESWIPE COLLISION - SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
18600443	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7971428	-84.2173838	18.583	10/6/2016	0610	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
18602417	KY STATE POLICE, POST 06	PENDLETON	KY0009	AA	38.84495485	-84.26192144	3.134	11/10/2016	0705	2	0	0	O	CLEAR	DRY	FALSE	1 VEHICLE PARKED POSITION (NOT PARKING LOT/DRIVEWAY)	REAR END	STRAIGHT & LEVEL	DAYLIGHT
18608215	GREENUP COUNTY SHERIFF DEPT.	GREENUP	KY0010	AA	38.6461096	-82.8779683	11.566	10/24/2016	1537	2	0	0	O	CLEAR	DRY	FALSE	REAR END - ONE VEHICLE STOPPED	REAR END	STRAIGHT & LEVEL	DAYLIGHT
18629340	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.6013347	-83.7535857	7.091	11/11/2016	1258	2	0	1	C	CLEAR	DRY	FALSE	OTHER COLLISIONS ON SHOULDER	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
18629351	MAYSVILLE POLICE DEPARTMENT	MASON	US0068		38.6434186	-83.8356383	0.218	11/18/2016	1132	2	0	0	O	CLEAR	DRY	FALSE	REAR END - ON RAMP	REAR END	STRAIGHT & LEVEL	DAYLIGHT
18638894	PENDLETON CTY SHERIFF DEPT.	PENDLETON	KY0009	KY9	38.8129515	-84.2435705	0.534	11/9/2016	0800	1	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DAYLIGHT
18655913	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6435656	-83.8356664	12.62	11/25/2016	1810	2	0	1	C	CLEAR	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
18676509	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6322301	-83.7960923	10.287	11/30/2016	1539	2	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE-SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
18676857	CARTER COUNTY SHERIFF DEPT.	CARTER	KY0009	AA	38.4159496	-83.0591744	8.39	11/22/2016	1950	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
18694568	CARTER COUNTY SHERIFF DEPT.	CARTER	KY0009	AA	38.3898322	-83.010772	4.786	11/16/2016	1846	2	0	0	O	CLEAR	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DARK-HWY LIGHTED/OFF
18702988	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.576555	-83.658485	1.528	11/27/2016	2000	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
18724361	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0010	KY10	38.6067591	-83.1545462	14.366	9/30/2016	1549	2	0	0	O	CLOUDY	WET	FALSE	ANGLE COLLISION - OTHER	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
18724367	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0010	KY10	38.6128999	-83.1179709	16.796	10/24/2016	1635	2	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE-SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & GRADE	DAYLIGHT
18724368	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0010	KY10	38.6066708	-83.1546313	14.358	10/20/2016	1730	2	0	0	O	CLEAR	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
18724370	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.5857469	-83.4028814	16.484	10/28/2016	2135	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
18724372	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY3020	KY3020	38.5926181	-83.2522373	1.056	11/3/2016	1955	2	0	0	O	CLOUDY	WET	FALSE	REAR END - OTHER	REAR END	STRAIGHT & GRADE	DAYLIGHT
18737179	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.5790203	-83.665122	1.925	11/21/2016	1917	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
18755467	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6372576	-83.8043699	10.86	12/14/2016	0825	3	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE-SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
18768585	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.627582	-83.7907174	9.862	12/17/2016	1332	2	0	0	O	CLOUDY	WET	FALSE	REAR END IN TRAFFIC ONE VEHICLE STOPPED	REAR END	STRAIGHT & LEVEL	DAYLIGHT
18801265	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.62295	-83.7854771	9.433	12/23/2016	0900	2	0	0	O	CLEAR	DRY	FALSE	REAR END - OTHER	REAR END	STRAIGHT & GRADE	DAYLIGHT
18801769	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6602885	-83.9037701	16.547	12/14/2016	0000	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
18813303	CARTER COUNTY SHERIFF DEPT.	CARTER	KY0009	AA	38.3554332	-82.9470099	0.473	12/16/2016	0045	1	0	0	O	RAINING	ICE	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
18817616	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6178569	-83.7799723	8.968	12/29/2016	0905	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
18830472	GREENUP COUNTY SHERIFF DEPT.	GREENUP	KY0010	AA	38.6308386	-83.0130594	3.201	12/17/2016	2253	1	0	1	C	CLOUDY	WET	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & HILLCREST	DARK-HWY NOT LIGHTED
18830475	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6320216	-83.7958873	10.269	12/30/2016	1227	2	0	0	O	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	REAR END	STRAIGHT & LEVEL	DAYLIGHT
18835419	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.5755428	-83.4302204	18.298	8/7/2016	1730	3	0	2	C	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
18835424	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.5755979	-83.2772132	8.048	9/18/2016	0040	2	0	0	O	CLOUDY	DRY	FALSE	ANGLE COLLISION - ONE VEHICLE TURNING LEFT	ANGLE	CURVE & GRADE	DARK-HWY LIGHTED/ON
18835427	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.5756977	-83.2945495	9.004	9/30/2016	1710	2	0	1	B	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & GRADE	DAYLIGHT
18835443	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.5755408	-83.2869451	8.59	12/12/2016	1704	1	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
18838125	MAYSVILLE POLICE DEPARTMENT	MASON	US0062	US62	38.6319022	-83.7957081	14.387	1/3/2017	1155	2	0	0	O	CLOUDY	WET	FALSE	SIDESWIPE-SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
18848126	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.80965501	-84.23338345	19.807	1/5/2017	0700	2	0	1	B	SNOWING	SNOW/SLUSH	FALSE	ANGLE COLLISION - OTHER	ANGLE	STRAIGHT & LEVEL	DAWN
18848127	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY1159	BLADESTON	38.73242961	-84.10088517	4.344	1/5/2017	0810	2	0	0	O	SNOWING	SNOW/SLUSH	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & GRADE	DAYLIGHT
18848175	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.77403238	-84.20656852	16.856	12/29/2016	1301	2	0	1	B	CLEAR	DRY	FALSE	ANGLE COLLISION - OTHER	ANGLE	STRAIGHT & HILLCREST	DAYLIGHT
18848185	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.73116983	-84.08552792	9.419	12/30/2016	0930	1	0	0	O	SNOWING	SNOW/SLUSH	FALSE	RAN OFF ROADWAY (1 VEHICLE WITH/EARTH EMBANKMENT/DITCH)	SINGLE VEHICLE	STRAIGHT & GRADE	DAYLIGHT
18848191	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.78409838	-84.2093848	17.612	1/5/2017	0915	1	0	0	O	SNOWING	SNOW/SLUSH	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & GRADE	DAYLIGHT
18850534	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.617783	-83.7801102	8.972	1/4/2017	1813	2	0	1	B	CLEAR	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DARK (UNKNOWN ROADWAY LIGHTING)
18850536	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6033708	-83.7622308	7.58	1/5/2017	0550	2	0	0	O	SNOWING	SNOW/SLUSH	FALSE	SIDESWIPE COLLISION - SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
18850538	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009		38.603184	-83.8620795	7.559	1/5/2017	0824	2	0	0	O	SNOWING	SNOW/SLUSH	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
18851054	MASON COUNTY SHERIFF	MASON	KY0009	MARTIN LUTHER KING	38.6034845	-83.7623801	7.592	1/5/2017	0753	2	0	0	O	SNOWING	SNOW/SLUSH	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
18858948	KY STATE POLICE, POST 14	GREENUP	KY0010	AA	38.6462554	-82.8778184	0.03	1/4/2017	1638	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	CURVE & LEVEL	DAYLIGHT
18882946	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.6451662	-83.8517363	13.497	1/11/2017	1745	2	0	0	O	RAINING	WET	FALSE	SIDESWIPE-SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
18901332	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.646335	-83.8635205	14.14	1/13/2017	2150	1	0	0	O	RAINING	WET	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
18941944	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6345393	-83.7996641	10.54	1/20/2017	1642	2	0	0	O	CLEAR	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
18947994	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.5842951	-83.6991894	3.82	1/23/2017	0200	1	0	1	C	RAINING	WET	FALSE	RAN OFF ROADWAY (1 VEHICLE WITH/EARTH EMBANKMENT/DITCH)	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
18955357	KY STATE POLICE, POST 06	BRACKEN	KY0009	AA	38.73056815	-83.99717537	4.552	1/12/2017	1709	2	0	0	O	CLOUDY	WET	TRUE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DUSK
18962182	VANCEBURG POLICE DEPARTMENT	LEWIS	KY0009	AA	38.5920949	-83.3278814	11.708	1/9/2017	0836	2	0	0	O	CLEAR	DRY	FALSE	ANGLE COLLISION - OTHER	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
18978622	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.5859937	-83.4052963	16.615	12/12/2016	0340	1	0	1	B	RAINING	WET	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	CURVE & LEVEL	DARK-HWY NOT LIGHTED
18978632	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0010	KY10	38.5756488	-83.2771998	6.791	1/11/2017	0546	1	0	0	O	FOG	DRY	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32	SINGLE VEHICLE	CUR

AA Highway Improvements Study Crash Data (2014-2019)																		
Incident Id	Agency Name	County	Roaway Number	Roadway Name	Latitude	Longitude	Milepoint	Collision Date	Collision Time	Units Involved	Number Killed	Number Injured	Severity	Weather	Roadway Condition	Hit and Run?	Directional Analysis	Manner of Collision	Roadway Characteristic	Light Condition
19385438	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.73176318	-84.04156042	6.974	1/24/2017	1900	1	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
19385441	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.79484659	-84.21597115	18.418	1/26/2017	0015	1	0	2	C	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
19385455	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.71855033	-83.96462757	2.551	3/19/2017	2300	1	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
19385456	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.74640286	-84.1227427	11.866	2/13/2017	1950	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
19385461	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.73340928	-84.10647241	10.558	2/23/2017	1426	2	0	4	B	CLEAR	DRY	FALSE	REAR END - ONE VEHICLE TURNING LEFT	REAR END	STRAIGHT & GRADE	DAYLIGHT
19385467	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.75632208	-84.14582504	13.287	2/12/2017	1852	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
19385470	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.77400434	-84.20663834	16.856	3/4/2017	1954	2	0	2	C	CLEAR	DRY	FALSE	ANGLE COLLISION - OTHER	ANGLE	CURVE & LEVEL	DARK-HWY LIGHTED/ON
19395597	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	AA	38.60325685	-83.76210144	7.55	3/27/2017	1609	2	0	0	O	CLOUDY	DRY	FALSE	OPPOSING LEFT TURN	STRAIGHT & GRADE	STRAIGHT & LEVEL	DAYLIGHT
19397455	KY STATE POLICE, POST 14	GREENUP	KY0010	AA	38.64612082	-82.87827311	11.575	3/27/2017	1032	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
19410700	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.62447225	-83.78711894	9.571	3/31/2017	1452	3	0	3	C	RAINING	WET	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	REAR END	STRAIGHT & LEVEL	DAYLIGHT
19422870	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.5985779	-83.7324417	5.898	3/29/2017	1835	2	0	0	O	CLOUDY	DRY	FALSE	REAR END - BOTH VEHICLES GOING STRAIGHT	REAR END	STRAIGHT & LEVEL	DAYLIGHT
19427605	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.68121345	-83.93222151	18.7	3/21/2017	0357	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
19434602	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.64572261	-83.85552079	13.707	3/30/2017	0040	1	0	1	B	CLEAR	DRY	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & HILLCREST	DARK-HWY LIGHTED/ON
19441162	GREENUP COUNTY SHERIFF DEPT.	GREENUP	KY0010	AA	38.6222626	-82.9277549	8.281	4/4/2017	1717	2	0	2	C	CLEAR	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
19445020	KY STATE POLICE, POST 08	LEWIS	KY0009	AA	38.58251931	-83.35834355	13.961	4/5/2017	0719	2	1	1	K	CLEAR	DRY	FALSE	HEAD-ON COLLISION	HEAD ON	STRAIGHT & LEVEL	DAYLIGHT
19454400	KY STATE POLICE, POST 14	CARTER	KY0009	AA	38.41602639	-83.05559727	8.076	4/8/2017	0808	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & GRADE	DAYLIGHT
19461593	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.68022012	-83.92932926	18.529	4/7/2017	2217	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
19481839	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63189752	-83.79570892	10.256	4/12/2017	1641	2	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE-SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
19516481	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.60337398	-83.76250394	7.592	4/12/2017	1737	2	0	1	C	CLEAR	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
19517560	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6502717	-83.8762142	14.867	4/7/2017	1553	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
19539524	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.65055854	-83.8721224	14.93	4/20/2017	0630	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
19550615	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	GRAYSON	38.5163276	-83.1952004	1.345	1/3/2017	1500	1	0	0	O	RAINING	WET	FALSE	OTHER COLLISIONS ON SHOULDER	SINGLE VEHICLE	CURVE & HILLCREST	DAYLIGHT
19550629	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0010	KY10	38.5927794	-83.2512456	8.736	2/28/2017	2330	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH NON-FIXED OBJECT	SINGLE VEHICLE	STRAIGHT & GRADE	DAYLIGHT
19550636	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.5898267	-83.3491076	13.247	3/20/2017	1650	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH FIXED OBJECT IN INTERSECTION - FIRST EVENT COLLISION 09 - 32	SINGLE VEHICLE	CURVE & LEVEL	DAYLIGHT
19550640	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0010	KY10	38.5946871	-83.1945337	11.89	1/1/2017	0208	1	1	0	K	CLEAR	DRY	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
19556806	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	KY9	38.60320566	-83.76190747	7.56	4/23/2017	0125	2	0	1	C	CLEAR	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
19576360	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.80963608	-84.23336707	19.805	4/4/2017	1740	3	0	3	A	CLEAR	DRY	FALSE	OTHER INTERSECTION COLLISIONS	REAR END	STRAIGHT & GRADE	DAYLIGHT
19578420	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63165448	-83.79613715	10.284	4/27/2017	1219	2	0	0	O	RAINING	WET	FALSE	COLLISION IN PARKING LOT	BACKING	STRAIGHT & LEVEL	DAYLIGHT
19584309	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.61764916	-83.77974265	8.951	4/26/2017	1543	3	0	0	O	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	REAR END	STRAIGHT & LEVEL	DAYLIGHT
19605042	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63252129	-83.79657807	10.32	4/28/2017	0834	2	0	0	N/A	CLOUDY	WET	TRUE	COLLISION IN PARKING LOT	BACKING	STRAIGHT & LEVEL	DAYLIGHT
19633201	GREENUP COUNTY SHERIFF DEPT.	GREENUP	KY0010	AA	38.6460606	-82.877477	0.04	4/29/2017	1446	2	0	0	O	CLEAR	DRY	FALSE	REAR END - OTHER	REAR END	STRAIGHT & LEVEL	DAYLIGHT
19645639	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63723852	-83.8042192	10.853	5/3/2017	1758	2	0	0	O	CLOUDY	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & GRADE	DAYLIGHT
19725106	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63278037	-83.79700228	10.35	2/10/2017	1135	2	0	1	C	CLOUDY	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
19725109	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63417975	-83.79923323	10.506	5/11/2017	1537	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
19760869	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.58077898	-83.67143557	2.29	5/16/2017	1320	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
19786193	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.66819109	-83.91788639	17.508	5/18/2017	0120	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
19893115	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6489733	-83.8723453	14.642	5/25/2017	1730	2	0	0	O	CLOUDY	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & GRADE	DAYLIGHT
19919230	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.77129343	-84.20420314	16.63	5/11/2017	0001	1	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
19935891	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.60140014	-83.7537307	7.099	6/2/2017	1752	1	0	0	O	CLEAR	DRY	FALSE	RAN OFF ROADWAY (1 VEHICLE WITH/EARTH EMBANKMENT/DITCH)	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
19960784	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.61783222	-83.77993073	8.967	6/6/2017	1853	2	0	0	O	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	REAR END	STRAIGHT & LEVEL	DAYLIGHT
19961312	MASON COUNTY SHERIFF	MASON	KY0009	MARTIN LUTHER KING	38.63727828	-83.80436413	10.861	6/5/2017	1830	2	0	0	O	RAINING	WET	FALSE	SIDESWIPE-SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & GRADE	DUSK
19986590	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.61793668	-83.7800581	8.977	6/10/2017	2136	2	0	5	B	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	OPPOSING LEFT TURN	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
19989919	MASON COUNTY SHERIFF	MASON	KY0009	MARTIN LUTHER KING	38.63162828	-83.79542251	10.232	6/11/2017	1041	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
20026732	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.56980673	-83.64824908	0.803	6/11/2017	2235	2	0	5	C	CLEAR	DRY	FALSE	SIDESWIPE COLLISION - OPPOSITE DIRECTION	SIDESWIPE-OPPOSITE DIRECTION	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
20027435	CARTER COUNTY SHERIFF DEPT.	CARTER	KY0009	AA	38.36943661	-82.98485579	2.808	6/11/2017	1025	1	0	0	O	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	SINGLE VEHICLE	STRAIGHT & GRADE	DAYLIGHT
20039974	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6505295	-83.8771847	14.922	6/17/2017	1840	2	0	0	O	CLEAR	DRY	FALSE	ANGLE COLLISION - ONE VEHICLE TURNING LEFT	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
20053790	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.65353265	-83.88762618	15.532	6/20/2017	1315	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
20065994	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.67833313	-83.92731963	18.365	6/17/2017	0515	1	0	1	B	CLEAR	DRY	FALSE	RAN OFF ROADWAY (1 VEHICLE WITH/EARTH EMBANKMENT/DITCH)	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
20067878	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.5770577	-83.5053164	23.523	4/3/2017	1841	1	0	1	A	CLOUDY	DRY	FALSE	RAN OFF ROADWAY (1 VEHICLE WITH/EARTH EMBANKMENT/DITCH)	SINGLE VEHICLE	CURVE & LEVEL	DAYLIGHT
20067886	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.5557343	-83.5651587	27.177	5/1/2017	1817	2	0	1	C	CLEAR	DRY	FALSE	SIDESWIPE-SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & GRADE	DAYLIGHT
20067894	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.5557377	-83.5651224	27.175	5/7/2017	1555	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH FIXED OBJECT IN INTERSECTION - FIRST EVENT COLLISION 09 - 32	SINGLE VEHICLE	STRAIGHT & GRADE	DAYLIGHT
20067904	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	GRAYSON	38.5756136	-83.2771916	8.041	5/25/2017	1325	2	0	0	O	CLEAR	DRY	FALSE	ANGLE COLLISION - ONE VEHICLE TURNING LEFT	ANGLE	CURVE & GRADE	DAYLIGHT
20067906	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.5725327	-83.4333501	18.57	6/20/2017	2150	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	CURVE & GRADE	DARK-HWY LIGHTED/ON
20081210	KY STATE POLICE, POST 14	GREENUP	KY0010	AA	38.62531687	-83.03195106	2.105	6/24/2017	0558	1	0	0	O	FOG	WET	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	CURVE & LEVEL	DAYLIGHT
20096368	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.60321649	-83.76226207	7.575	6/19/2017	1437	2	0	0	O	CLEAR	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & HILLCREST	DAYLIGHT
20118556	MASON COUNTY SHERIFF	MASON	KY0009	KY9	38.6621662	-83.9063522	16.738	6/26/2017	1630	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & GRADE	DAYLIGHT
20128176	MASON COUNTY SHERIFF	MASON	KY1449	ORANGEBURG	38.58412153	-83.69856107	1.291	6/30/2017	1545	3	0	1	B	CLEAR	DRY	FALSE	ANGLE COLLISION - OTHER	ANGLE	STRAIGHT & GRADE	DAYLIGHT
20140493	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.65053831	-83.87717939	14.931	7/1/2017	2229	2	0	5	A	CLEAR	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
20144907	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6330542	-83.79743034	10.38	7/3/2017	1424	2	0	0	O	CLEAR	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	CURVE & LEVEL	DAYLIGHT
20154176	VANCEBURG POLICE DEPARTMENT	LEWIS	KY0009	AA	38.58494968	-83.32681193	11.205	6/25/2017	1716	2	0	1	C	CLOUDY	DRY	FALSE	ANGLE COLLISION - OTHER	ANGLE	STRAIGHT & GRADE	DAYLIGHT
20160510	PENDLETON CTY SHERIFF DEPT.	PENDLETON	KY0009	KY9	38.83858318	-84.26063083	2.691	6/7/2017	1000	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
20160524	PENDLETON CTY SHERIFF DEPT.	PENDLETON	KY0009	AA	38.84065578	-84.26098235	2.834	7/4/2017	0330	1	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
20172957	MAYSVILLE POLICE DEPARTMENT	MASON	KY0011	KY11	38.60327248	-83.76186026	8.467	7/11/2017	1259	2	0	0	O	CLEAR	DRY	FALSE	OTHER INTERSECTION COLLISIONS	REAR END	STRAIGHT & LEVEL	DAYLIGHT
20172965	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63272643	-83.79695321	10.345	7/8/2017	1702	2	0	0	O	CLEAR	DRY	FALSE	COLLISION IN PARKING LOT	BACKING	STRAIGHT & LEVEL	DAYLIGHT
20180020	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0010	KY10	38.5945998	-83.181505	12.601	5/3/2017	2335	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
20180025	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0010	KY10	38.5946776	-83.1945815	11.888	5/22/2017	0142	1	0	1	C	CLOUDY	DRY	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
20237025	GREENUP COUNTY SHERIFF DEPT.	GREENUP	KY0010	AA	38.62100669	-83.06008125	0.555	7/21/2017	1057	2	0	1	C	RAINING	WET	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
20271743	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.65352345	-83.88774748	15.528	7/20/2017	1120	2	0	2	B	CLEAR	DRY	FALSE	SIDESWIPE COLLISION - SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
20286067	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	AA	38.6031955	-83.76188867	7.558	8/2/2017	0933	2	0	0	O	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	REAR END	STRAIGHT & LEVEL	DAYLIGHT
20322371	CARTER COUNTY SHERIFF DEPT.	CARTER	KY0009	AA	38.37790161	-83.00039231	3.84	8/5/2017	1600	1	0	0	O	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
20333647	MAYSVILLE POLICE DEPARTMENT	MASON		WALMART	38.62112404	-83.78371881	0.404	8/3/2017	1514	2	0	0	O	CLEAR	DRY	FALSE	OTHER INTERSECTION COLLISIONS	REAR END	STRAIGHT & GRADE	DAYLIGHT
20336751	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.566901	-83.63790015	0.202	8/5/2017	2120	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	CURVE & GRADE	DARK-HWY NOT LIGHTED
20336824	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.66986903	-83.9209107	17.714	8/2/2017	1350	4	0	1	B	CLOUDY	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	CURVE & LEVEL	DAYLIGHT
20344381	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.5577102	-83.5473221	26.215	7/21/2017	1050	1	0	1	A	RAINING	WET	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	CURVE & HILLCREST	DAYLIGHT
20366079	VANCEBURG POLICE DEPARTMENT	LEWIS	KY0059	KY59	38.58495052	-83.32682724	23.189	7/2/2017	1145	2	0	1	C	CLOUDY	DRY	FALSE	ANGLE COLLISION - OTHER	ANGLE	STRAIGHT & GRADE	DAYLIGHT
20366505	VANCEBURG POLICE DEPARTMENT	LEWIS	KY0009	AA	38.57553051	-83.31902127	10.393	7/7/2017	2019	1	0	0	O	RAINING	WET	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	SINGLE VEHICLE	CURVE & HILLCREST	DAYLIGHT
20371218	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.62490554	-83.78753369	9.607	8/15/2017	1112	2	0	0	O	CLEAR	DRY	TRUE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & HILLCREST	DAYLIGHT
20434304	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0010	KY10	38.5905652	-83.2143924	10.77	8/21/2017	0812	2	0	0	O	CLEAR	DRY	FALSE		REAR END	STRAIGHT & LEVEL	DAWN
20444953	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.61773881	-83.77984136	8.959	8/27/2017	1258	2	0	0	O	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	REAR END	STRAIGHT & GRADE	DAYLIGHT
20454325	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.61779203	-83.78012942	8.962	8/28/2017	1359	2	0	0	O	RAINING	WET	FALSE	OTHER INTERSECTION COLLISIONS	REAR END	STRAIGHT & LEVEL	DAYLIGHT
20454327	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.61787175	-83.77997422	8.97	8/28/2017	1418	2	0	0	O	RAINING	WET	FALSE	OTHER INTERSECTION COLLISIONS	REAR END	STRAIGHT & LEVEL	DAYLIGHT
20501350	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6318521	-83.79564573	10.251	8/30/2017	1839	2	0	0	O	CLEAR	DRY	FALSE	OTHER INTERSECTION COLLISIONS	REAR END	STRAIGHT & LEVEL	DAYLIGHT
20527658	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.61778571	-83.78019146	8.958	9/10/2017	1757	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
20536122	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	KY9	38.60317012	-83.76204022	7.556	9/8/2017	1023	2	0	2	B	CLEAR	DRY	FALSE	ANGLE COLLISION - OTHER	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
20536123	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.62297812	-83.78545676	9.433	9/11/2017	1135	2	0	0	O	CLOUDY	DRY	FALSE	OTHER INTERSECTION COLLISIONS	REAR END	STRAIGHT & LEVEL	DAYLIGHT
20536212	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.59859187	-83.73253741	5.936	9/6/2017	0336	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
20555734	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63180211	-83.79555992	10.246	9/9/2017	1015	2	0	0	O	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	REAR END	STRAIGHT & LEVEL	DAYLIGHT
20578328	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63178782	-83.79706312	10.327	9/16/2017	2057	2	0	0	N/A	CLEAR	DRY	TRUE	COLLISION IN PARKING LOT	BACKING	STRAIGHT & LEVEL	OTHER
20596317	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.68442156	-83.94098697	19.236	9/19/2017	1725	1	0	0	O	CLOUDY	DRY	FALSE	OTHER COLLISIONS ON SHOULDER	SINGLE VEHICLE	CURVE & LEVEL	DAYLIGHT
20607271	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.60321368	-83.76225093	7.574	9/23/2017	1414	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
20614941	KY STATE POLICE, POST 06	BRACKEN	KY0009	AA	38.80015755	-84.21958698	18.809	9/22/2017	1630	2	0	2	B	CLEAR	DRY	FALSE	ANGLE COLLISION - OTHER	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
20642315	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6276946	-83.79084583	9.873	9/28/2017	1352	2	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE COLLISION - SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
20642318	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.64351402	-83.83633484	12.657	9/25/2017

AA Highway Improvements Study Crash Data (2014-2019)																		
Incident Id	Agency Name	County	Roaway Number	Roadway Name	Latitude	Longitude	Milepoint	Collision Date	Collision Time	Units Involved	Number Killed	Number Injured	Severity	Weather	Roadway Condition	Hit and Run?	Directional Analysis	Manner of Collision	Roadway Characteristic	Light Condition
20814024	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63179116	-83.79553563	10.244	10/27/2017	1839	2	0	0	O	CLOUDY	DRY	FALSE	SIDESWIPE COLLISION - SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DUSK
20818130	CARTER COUNTY SHERIFF DEPT.	CARTER	KY0009	AA	38.35912469	-82.96032678	1.239	10/27/2017	1934	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
20818133	CARTER COUNTY SHERIFF DEPT.	CARTER	KY0009	AA	38.46118572	-83.11071648	13.54	10/29/2017	1933	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	CURVE & GRADE	DARK-HWY NOT LIGHTED
20818457	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.65086533	-83.8782025	14.992	10/26/2017	1930	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY LIGHTED/OFF
20835016	PENDLETON CTY SHERIFF DEPT.	PENDLETON	KY0009	AA	38.85491577	-84.26361122	3.827	10/29/2017	1030	1	0	0	O	CLOUDY	WET	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DAYLIGHT
20838001	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63265816	-83.79672382	10.333	10/27/2017	2219	2	0	0	O	RAINING	WET	FALSE	SIDESWIPE COLLISION - SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
20846112	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.58731782	-83.70515253	4.205	10/27/2017	0630	1	0	1	C	CLEAR	DRY	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
20855267	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.61384818	-83.77568283	8.608	10/29/2017	1403	2	0	0	O	CLOUDY	FLOODED	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	REAR END	STRAIGHT & LEVEL	DAYLIGHT
20871244	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.57565182	-83.65745756	1.443	11/5/2017	2140	1	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY LIGHTED/OFF
20880061	PENDLETON CTY SHERIFF DEPT.	PENDLETON	KY0009	AA	38.85729424	-84.26380347	3.992	10/30/2017	1730	1	0	0	O	CLOUDY	WET	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & HILLCREST	DAYLIGHT
20884084	MAYSVILLE POLICE DEPARTMENT	MASON	US0068		38.64656443	-83.83074217	0.319	11/7/2017	0513	2	0	0	O	RAINING	WET	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
20901268	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.64243695	-83.82732292	12.158	11/10/2017	0900	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
20917097	CARTER COUNTY SHERIFF DEPT.	CARTER	KY0009	AA	38.39090588	-83.01136993	4.928	11/9/2017	1111	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
20921798	MASON COUNTY SHERIFF	MASON	KY0009	MARTIN LUTHER KING	38.64402224	-83.84030617	12.871	11/11/2017	1830	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK (UNKNOWN ROADWAY LIGHTING)
20921989	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.59281428	-83.71322579	4.787	11/13/2017	1628	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	CURVE & LEVEL	DAYLIGHT
20923853	KY STATE POLICE, POST 06	PENDLETON	KY0009	AA	38.84320072	-84.26140748	3.01	11/11/2017	2305	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & HILLCREST	DARK-HWY NOT LIGHTED
20923856	KY STATE POLICE, POST 06	PENDLETON	KY0009	AA	38.81157577	-84.24033475	0.339	11/11/2017	1912	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
20940346	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.66491387	-83.91014766	17.018	11/15/2017	1652	1	0	0	O	RAINING	WET	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & GRADE	DAYLIGHT
20940767	CARTER COUNTY SHERIFF DEPT.	CARTER	KY0009	AA	38.38484813	-83.00697745	4.44	11/11/2017	2228	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
20951716	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63199334	-83.79622245	10.285	11/18/2017	1421	2	0	0	O	CLOUDY	DRY	FALSE	COLLISION IN PARKING LOT	BACKING	STRAIGHT & LEVEL	DAYLIGHT
20953366	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.62891493	-83.79178255	9.967	11/19/2017	2238	2	0	0	O	CLOUDY	DRY	FALSE	COLLISION IN PARKING LOT	BACKING	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
20954429	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.58227819	-83.67900453	2.713	11/16/2017	0725	1	0	0	O	CLOUDY	WET	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DAWN
20954430	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.582213	-83.67714418	2.613	11/16/2017	0645	1	0	0	O	CLOUDY	WET	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
20977460	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	AA	38.60328355	-83.76206508	7.551	11/21/2017	1200	2	0	2	B	CLEAR	DRY	FALSE	HEAD-ON COLLISION	HEAD ON	STRAIGHT & LEVEL	DAYLIGHT
20992549	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7673424	-84.19089406	15.85	10/20/2017	1933	2	0	0	O	CLEAR	DRY	TRUE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
20992550	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.75866633	-84.1509106	13.607	10/25/2017	1050	2	0	0	O	CLOUDY	DRY	FALSE	SIDESWIPE COLLISION - SAME DIRECTION	SIDESWIPE-SAME DIRECTION	CURVE & HILLCREST	DAYLIGHT
20992551	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.73090529	-84.08281907	9.269	10/25/2017	1350	2	0	0	O	CLOUDY	DRY	FALSE	SIDESWIPE COLLISION - SAME DIRECTION	SIDESWIPE-SAME DIRECTION	CURVE & GRADE	DAYLIGHT
20992554	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.75857219	-84.15051414	13.585	11/1/2017	1038	2	0	1	C	RAINING	WET	FALSE	ANGLE COLLISION - OTHER	ANGLE	STRAIGHT & HILLCREST	DAYLIGHT
20992558	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.60118437	-83.75242432	7.027	11/23/2017	0005	2	0	0	O	CLEAR	DRY	FALSE	OTHER COLLISIONS ON SHOULDER	ANGLE	STRAIGHT & LEVEL	DARK-HWY LIGHTED/OFF
20992561	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.60163035	-83.75599533	7.222	11/22/2017	1600	2	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE COLLISION - SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
20992568	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.73410796	-84.05553393	7.751	11/5/2017	1626	2	0	0	O	CLEAR	DRY	FALSE	ANGLE COLLISION - OTHER	ANGLE	STRAIGHT & HILLCREST	DAYLIGHT
20992573	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.73323798	-84.06951782	8.525	11/4/2017	0325	1	0	0	N/A	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
20992575	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.73038293	-84.00059399	4.738	11/12/2017	1826	1	0	0	O	RAINING	WET	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
20992576	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.71171419	-83.95679852	1.898	10/24/2017	1645	3	0	3	C	CLOUDY	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	CURVE & GRADE	DAYLIGHT
20992580	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.75408132	-84.1410526	12.987	11/4/2017	1928	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
20994167	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.64788176	-83.86888264	14.446	11/25/2017	1718	1	0	0	O	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	SINGLE VEHICLE	STRAIGHT & LEVEL	DUSK
21012980	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.61794736	-83.7800452	8.978	11/29/2017	1536	2	0	0	O	CLEAR	FLOODED	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
21061172	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.58202586	-83.67592979	2.547	12/2/2017	2313	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & HILLCREST	DARK-HWY NOT LIGHTED
21081876	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63265983	-83.79678289	10.335	12/2/2017	2355	2	0	0	O	CLEAR	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
21083144	GREENUP COUNTY SHERIFF DEPT.	GREENUP	KY0010	AA	38.62241131	-82.92947854	8.196	11/24/2017	2130	1	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
21088873	KY STATE POLICE, POST 14	GREENUP	KY0010	AA	38.64611588	-82.87768787	0.044	11/30/2017	0732	2	0	0	O	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	REAR END	STRAIGHT & LEVEL	DAYLIGHT
21108724	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.58667446	-83.70399332	4.128	11/30/2017	2200	2	0	0	O	FOG	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
21150063	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	KY9	38.60316286	-83.76185555	7.562	12/5/2017	1237	2	0	0	O	CLOUDY	WET	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
21169228	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.5804932	-83.67011762	2.216	12/1/2017	1430	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
21264058	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.62750685	-83.79058942	9.846	12/7/2017	1029	2	0	0	O	CLEAR	DRY	FALSE	ANGLE COLLISION - ONE VEHICLE TURNING LEFT	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
21264064	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63105054	-83.79445331	10.188	12/7/2017	2153	3	0	2	A	CLEAR	DRY	FALSE	COLLISION WITH PEDESTRIAN NON - INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
21339373	MAYSVILLE POLICE DEPARTMENT	MASON	KY0011	KY11	38.60330651	-83.76200881	8.465	12/8/2017	1445	2	0	0	O	CLEAR	DRY	FALSE	REAR END - ONE VEHICLE TURNING RIGHT	REAR END	STRAIGHT & GRADE	DAYLIGHT
21372430	PENDLETON CTY SHERIFF DEPT.	PENDLETON	KY0009	AA	38.84088069	-84.26103396	2.85	12/8/2017	1700	1	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & HILLCREST	DUSK
21492168	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.59931167	-83.7377788	6.223	12/9/2017	1803	1	0	0	O	SNOWING	SNOW/SLUSH	FALSE	RAN OFF ROADWAY (1 VEHICLE WITH/EARTH EMBANKMENT/DITCH)	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
21495587	PENDLETON CTY SHERIFF DEPT.	PENDLETON	KY0009	KY9	38.83860228	-84.26035842	2.691	12/9/2017	1600	1	0	0	O	SNOWING	SNOW/SLUSH	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	SINGLE VEHICLE	STRAIGHT & GRADE	DAYLIGHT
21495611	PENDLETON CTY SHERIFF DEPT.	PENDLETON	KY0009	KY9	38.83839855	-84.26061378	2.678	12/9/2017	1551	1	0	1	B	SNOWING	SNOW/SLUSH	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	SINGLE VEHICLE	STRAIGHT & GRADE	DAYLIGHT
22257708	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.60326879	-83.76207579	7.57	12/17/2017	0100	1	0	0	O	CLEAR	DRY	TRUE	COLLISION WITH FIXED OBJECT IN INTERSECTION - FIRST EVENT COLLISION 09 - 32	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
22280854	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63334063	-83.79765964	10.403	12/15/2017	1915	2	0	0	O	CLEAR	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
22286549	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.64474399	-83.84705876	13.242	12/17/2017	2045	1	0	1	C	CLOUDY	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
22628845	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.62111914	-83.78373247	9.273	12/24/2017	1632	2	0	0	O	RAINING	WET	FALSE	ANGLE COLLISION - OTHER	ANGLE	STRAIGHT & GRADE	DUSK
22628856	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.62953966	-83.79262173	10.028	12/21/2017	1603	2	0	0	O	CLEAR	DRY	FALSE	COLLISION IN PARKING LOT	BACKING	STRAIGHT & LEVEL	DAYLIGHT
22628857	MAYSVILLE POLICE DEPARTMENT	MASON	KY0011	KY11	38.6031536	-83.76198114	8.457	12/13/2017	1034	2	0	2	B	CLOUDY	DRY	FALSE	OPPOSING LEFT TURN	OPPOSING LEFT TURN	STRAIGHT & GRADE	DAYLIGHT
22666024	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.65053142	-83.87718555	14.932	12/1/2017	2320	2	0	1	C	CLEAR	DRY	TRUE	ANGLE COLLISION - OTHER	ANGLE	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
22679382	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.73078382	-84.03381144	6.553	12/31/2017	0222	1	0	0	O	CLEAR	ICE	FALSE	RAN OFF ROADWAY (1 VEHICLE WITH/EARTH EMBANKMENT/DITCH)	SINGLE VEHICLE	CURVE & GRADE	DARK-HWY NOT LIGHTED
22679387	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.80460421	-84.2250302	19.234	12/21/2017	1850	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
22679399	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.73096372	-84.0099166	5.252	12/10/2017	1935	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
22679405	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.73066343	-84.08053246	9.143	12/10/2017	1725	1	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
22680167	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.72451583	-83.97840916	3.436	12/30/2017	1000	1	0	0	O	SNOWING	SNOW/SLUSH	FALSE	RAN OFF ROADWAY (1 VEHICLE WITH/EARTH EMBANKMENT/DITCH)	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
22680502	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.5862903	-83.4061594	16.662	12/18/2017	1210	1	0	0	O	CLOUDY	WET	FALSE		SINGLE VEHICLE	STRAIGHT & GRADE	DAYLIGHT
22680505	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.5583412	-83.59752	29.132	2/3/2017	2000	1	0	0	O	CLEAR	DRY	FALSE		SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
22680509	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.5623119	-83.6140144	30.075	2/16/2017	2030	2	0	0	O	CLEAR	DRY	FALSE		ANGLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
22680511	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0010	KY10	38.5905527	-83.2147249	10.752	1/5/2017	2134	1	0	0	O	SNOWING	SNOW/SLUSH	FALSE		SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
22680513	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.5542429	-83.5848059	28.38	3/18/2017	2205	2	0	0	O	CLOUDY	OTHER	FALSE		ANGLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
22680538	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0010	AA	38.6052109	-83.1571841	14.183	8/31/2017	0942	2	0	0	O	CLEAR	DRY	FALSE		ANGLE	STRAIGHT & LEVEL	DAYLIGHT
22680541	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.5751991	-83.4549439	19.797	9/12/2017	0938	2	0	0	O	RAINING	WET	FALSE		SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
22680551	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.5751266	-83.5140414	24.025	10/16/2017	2052	1	0	0	O	CLEAR	DRY	FALSE		SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
22680565	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0010	KY10	38.5912603	-83.2340291	9.674	11/6/2017	0741	2	0	0	O	CLEAR	DRY	FALSE		SIDESWIPE-SAME DIRECTION	STRAIGHT & GRADE	DAYLIGHT
22680576	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.558033	-83.5962171	29.058	12/4/2017	2249	1	0	0	O	CLEAR	DRY	FALSE		SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
22680578	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.5688862	-83.5268719	24.854	12/7/2017	1441	2	0	0	O	CLEAR	DRY	FALSE		REAR END	STRAIGHT & LEVEL	DAYLIGHT
22689039	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.62483937	-83.78773551	9.608	1/5/2018	1732	2	0	1	C	CLOUDY	DRY	FALSE	ANGLE COLLISION - OTHER	ANGLE	STRAIGHT & GRADE	DUSK
22696606	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.65043049	-83.87688181	14.914	1/7/2018	0200	2	0	0	N/A	CLEAR	DRY	TRUE	COLLISION IN PARKING LOT	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
22699731	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	GRAYSON	38.5641035	-83.2570992	6.677	3/24/2016	1315	1	1	1	K	CLOUDY	DRY	FALSE		SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
22720910	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	AA	38.60319891	-83.76188504	7.558	1/8/2018	1558	2	0	0	O	RAINING	WET	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
22739752	CARTER COUNTY SHERIFF DEPT.	CARTER	KY0009	AA	38.39723931	-83.01639862	5.458	1/5/2018	2205	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
22774470	GREENUP COUNTY SHERIFF DEPT.	GREENUP	KY0010	AA	38.62671753	-82.97229784	5.791	1/20/2018	0421	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
22803583	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63198756	-83.79586624	10.267	1/26/2018	1918	2	0	0	O	CLEAR	DRY	TRUE	OTHER ROADWAY OR MID-BLOCK COLLISION	REAR END	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
22814625	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6323744	-83.79642051	10.307	1/27/2018	1900	1	0	0	O	RAINING	WET	FALSE	COLLISION IN PARKING LOT	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
22834910	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.5777877	-83.3234632	10.583	10/21/2016	0850	1	0	0	O	RAINING	ER (STANDING OR MOV	FALSE		SINGLE VEHICLE	CURVE & HILLCREST	DAYLIGHT
22834912	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0010	KY10	38.5921544	-83.206649	11.202	11/8/2016	0800	2	0	1	C	CLEAR	DRY	FALSE		REAR END	STRAIGHT & LEVEL	DAYLIGHT
22834915	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0010	KY10	38.5812145	-83.2718965	7.272	11/28/2017	1300	1	0	0	O	CLEAR	DRY	FALSE		SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
22834921	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.5542437	-83.5848035	28.38	12/14/2017	1405	2	0	1	C	CLEAR	DRY	FALSE		ANGLE	STRAIGHT & LEVEL	DAYLIGHT
22838482	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63277058	-83.79694103	10.347	1/31/2018	1840	2	0	0	O	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	REAR END	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
22854883	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.59772137	-83.72530415	5.534	2/5/2018	0015	1	0	0	O	SNOWING	ICE	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	CURVE & LEVEL	DARK-HWY NOT LIGHTED
22855150	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.73256875	-84.10083743	10.259	1/12/2018	0650	2	0	1	C	RAINING	WET	FALSE	ANGLE COLLISION - OTHER	ANGLE	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
22855151	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.73446968	-84.10874168	10.704	2/4/2018	0710	1	0	0	O	SNOWING	SNOW/SLUSH	FALSE	RAN OFF ROADWAY (1 VEHICLE WITH/EARTH EMBANKMENT/DITCH)	SINGLE VEHICLE	CURVE & GRADE	DAWN
22855152	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.74009823	-84.11332123	11.169	2/4/2018	0712	1	0	2	C	SNOWING	SNOW/SLUSH	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & GRADE	DAWN
22855631	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.76188575	-84.1649467	14.398	11/26/2017	2119	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
22855645	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.73410626	-84.05553278	7.751	1/21/2018	2205	2	0	0	O	CLOUDY	WET	FALSE	ANGLE COLLISION - OTHER	ANGLE	STRAIGHT & HILLCREST	DARK-HWY NOT LIGHTED
22856716

AA Highway Improvements Study Crash Data (2014-2019)																		
Incident Id	Agency Name	County	Roaway Number	Roadway Name	Latitude	Longitude	Milepoint	Collision Date	Collision Time	Units Involved	Number Killed	Number Injured	Severity	Weather	Roadway Condition	Hit and Run?	Directional Analysis	Manner of Collision	Roadway Characteristic	Light Condition
23186395	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6372814	-83.80448264	10.867	3/28/2018	1242	2	0	0	O	CLOUDY	WET	FALSE	ANGLE COLLISION - OTHER	ANGLE	STRAIGHT & GRADE	DAYLIGHT
23186478	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63190937	-83.79573545	10.258	3/28/2018	1557	2	0	0	O	RAINING	WET	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
23203949	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.57480962	-83.30241975	9.496	3/29/2018	0610	1	0	0	O	RAINING	WET	FALSE	RAN OFF ROADWAY (1 VEHICLE WITH/EARTH EMBANKMENT/DITCH)	SINGLE VEHICLE	CURVE & GRADE	DARK-HWY NOT LIGHTED
23203976	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.5541208	-83.5848053	28.388	1/20/2018	1435	2	0	0	O	CLEAR	DRY	FALSE		HEAD ON	STRAIGHT & LEVEL	DAYLIGHT
23203977	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.5854494	-83.3544821	13.674	2/3/2018	1523	1	0	0	O	CLEAR	DRY	FALSE		SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
23206432	MAYSVILLE POLICE DEPARTMENT	MASON		MARKETSQUARE	38.62477221	-83.78769479	0.652	4/2/2018	1838	2	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH PARKED VEHICLE	REAR END	STRAIGHT & LEVEL	DAYLIGHT
23221628	VANCEBURG POLICE DEPARTMENT	LEWIS	KY0009	AA	38.58314412	-83.32657496	11.062	2/22/2018	0318	1	0	0	O	RAINING	WET	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	SINGLE VEHICLE	CURVE & HILLCREST	DARK-HWY LIGHTED/OFF
23233222	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6318365	-83.7956662	10.251	4/7/2018	0105	1	0	0	O	SNOWING	WET	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	CURVE & LEVEL	DARK-HWY LIGHTED/ON
23243203	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63683057	-83.80340385	10.8	4/9/2018	0804	2	0	0	O	CLOUDY	WET	TRUE	SIDESWIPE COLLISION - SAME DIRECTION	SIDESWIPE-SAME DIRECTION	CURVE & GRADE	DAYLIGHT
23249628	KY STATE POLICE, POST 14	CARTER	KY0009	AA	38.45228379	-83.06635687	10.732	4/2/2018	0442	1	0	1	C	CLEAR	DRY	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	CURVE & LEVEL	DARK-HWY NOT LIGHTED
23254761	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.6769783	-83.92627055	18.261	4/6/2018	0400	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
23255717	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7317562	-84.09031639	9.683	3/20/2018	0700	2	0	0	O	CLOUDY	DRY	FALSE	SIDESWIPE COLLISION - OPPOSITE DIRECTION	SIDESWIPE-OPPOSITE DIRECTION	STRAIGHT & GRADE	DAWN
23265080	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.58839204	-83.35031826	13.374	3/17/2018	1600	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
23265083	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0010	KY10	38.5756484	-83.27713838	6.793	4/5/2018	0300	1	0	0	O	CLOUDY	DRY	FALSE	RAN OFF ROADWAY (1 VEHICLE WITH/EARTH EMBANKMENT/DITCH)	SINGLE VEHICLE	CURVE & GRADE	DARK-HWY LIGHTED/ON
23296271	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6332222	-83.79764301	10.397	4/14/2018	1645	3	0	4	C	RAINING	WET	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
23359737	VANCEBURG POLICE DEPARTMENT	LEWIS		SHELTON	38.59209775	-83.32777719	0.053	4/25/2018	2130	2	0	0	O	CLOUDY	DRY	FALSE	OTHER INTERSECTION COLLISIONS	REAR END	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
23359807	VANCEBURG POLICE DEPARTMENT	LEWIS	KY0059	KY59	38.58495512	-83.32676537	23.187	4/12/2018	2051	2	0	4	B	CLOUDY	DRY	FALSE	ANGLE COLLISION - OTHER	ANGLE	STRAIGHT & GRADE	DARK-HWY LIGHTED/ON
23388352	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63189792	-83.79570917	10.256	5/4/2018	1620	2	0	0	O	CLOUDY	DRY	FALSE	SIDESWIPE-SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
23389791	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.66538393	-83.91093712	17.058	4/18/2018	0447	2	0	1	A	CLEAR	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & HILLCREST	DARK-HWY LIGHTED/ON
23392683	KY STATE POLICE, POST 06	PENDLETON	KY0009	AA	38.85248896	-84.2634695	3.66	4/28/2018	1436	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
23416795	KY STATE POLICE, POST 06	BRACKEN	KY0009	AA	38.73163387	-84.01530475	5.543	5/11/2018	1600	2	0	0	O	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	OPPOSING LEFT TURN	STRAIGHT & LEVEL	DAYLIGHT
23420838	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63321489	-83.79763569	10.396	5/8/2018	1615	2	0	0	O	CLEAR	DRY	TRUE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
23428366	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.64138127	-83.82166065	11.828	5/15/2018	1738	2	0	1	C	CLEAR	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
23442828	MAYSVILLE POLICE DEPARTMENT	MASON	US0062	US62	38.63204996	-83.79552975	14.375	5/18/2018	1304	2	0	0	O	CLOUDY	DRY	FALSE	OTHER INTERSECTION COLLISIONS	REAR END	STRAIGHT & LEVEL	DAYLIGHT
23449364	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63871444	-83.80954064	11.156	5/19/2018	0300	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH FIXED OBJECT IN INTERSECTION - FIRST EVENT COLLISION 09 - 32	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
23450758	KY STATE POLICE, POST 14	GREENUP	KY0010	AA	38.62227393	-82.92778135	8.288	5/20/2018	1713	2	0	0	O	CLOUDY	DRY	FALSE	ANGLE COLLISION - OTHER	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
23451291	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.65619577	-83.89785896	16.119	5/17/2018	1245	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
23454755	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.7447825	-84.11853414	11.613	4/12/2018	2114	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
23454758	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.73303396	-84.10497429	10.476	4/4/2018	1308	2	0	0	O	CLOUDY	DRY	FALSE	HEAD-ON COLLISION	HEAD ON	CURVE & GRADE	DAYLIGHT
23465295	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.61912026	-83.78157096	9.093	5/21/2018	1400	2	0	0	O	CLEAR	DRY	FALSE	COLLISION IN PARKING LOT	BACKING	STRAIGHT & LEVEL	DAYLIGHT
23481548	KY STATE POLICE, POST 06	PENDLETON	KY0009	AA	38.81132774	-84.2395125	0.288	5/19/2018	1400	1	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & HILLCREST	DAYLIGHT
23490190	MAYSVILLE POLICE DEPARTMENT	MASON	US0062	US62	38.63187885	-83.79573425	14.385	5/27/2018	1706	2	0	0	O	CLEAR	DRY	FALSE	ANGLE COLLISION - OTHER	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
23493887	CARTER COUNTY SHERIFF DEPT.	CARTER	KY0009	AA	38.47009271	-83.1320389	14.867	5/24/2018	2128	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
23496336	CARTER COUNTY SHERIFF DEPT.	CARTER	KY0009	AA	38.45976101	-83.07030452	11.32	5/15/2018	1055	2	0	1	C	CLEAR	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
23501890	GREENUP COUNTY SHERIFF DEPT.	GREENUP		TYGARTS CREEK	38.62198485	-82.91877722	2.283	5/28/2018	1705	2	0	1	C	CLOUDY	DRY	FALSE	REAR END - ONE VEHICLE TURNING LEFT	REAR END	CURVE & LEVEL	DAYLIGHT
23516565	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6315786	-83.79534412	10.227	6/3/2018	1141	2	0	0	O	CLEAR	DRY	FALSE	COLLISION IN PARKING LOT	BACKING	STRAIGHT & LEVEL	DUSK
23516566	MAYSVILLE POLICE DEPARTMENT	MASON	KY0011	KY11	38.60311455	-83.76213945	8.447	6/3/2018	1617	2	0	0	O	CLEAR	DRY	FALSE	OTHER INTERSECTION COLLISIONS	REAR END	STRAIGHT & GRADE	DAYLIGHT
23519990	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.55778682	-83.59547715	29.014	5/31/2018	0635	1	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & LEVEL	DAWN
23520028	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.57528842	-83.30463884	9.631	4/23/2018	1605	1	0	0	O	RAINING	WET	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	CURVE & GRADE	DAYLIGHT
23533260	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.64293982	-83.83025317	12.324	6/5/2018	1122	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
23536749	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63156055	-83.79525788	10.223	6/7/2018	1315	2	0	0	O	CLEAR	DRY	FALSE	OTHER INTERSECTION COLLISIONS	REAR END	STRAIGHT & LEVEL	DAYLIGHT
23577782	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.58614736	-83.71908216	4.067	6/15/2018	1302	1	0	0	O	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
23606108	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.58184808	-83.67527278	2.509	6/23/2018	1602	2	0	0	O	CLEAR	DRY	FALSE	HEAD-ON COLLISION	HEAD ON	STRAIGHT & LEVEL	DAYLIGHT
23606347	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.8098348	-84.23416125	19.851	6/6/2018	0430	1	0	0	O	CLEAR	DRY	FALSE	RAN OFF ROADWAY (1 VEHICLE WITH/EARTH EMBANKMENT/DITCH)	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
23606381	PENDLETON CTY SHERIFF DEPT.	PENDLETON	KY0009	AA	38.83602162	-84.26033749	2.506	6/16/2018	0237	1	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
23606496	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.73214954	-84.07337754	8.745	5/30/2018	1210	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
23606503	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.80805621	-84.2295721	19.573	5/28/2018	1411	1	0	0	O	CLEAR	DRY	FALSE	OTHER COLLISIONS ON SHOULDER	SINGLE VEHICLE	STRAIGHT & GRADE	DAYLIGHT
23615283	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.65480719	-83.89313475	15.843	6/25/2018	2136	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
23624858	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63180778	-83.79557754	10.247	6/28/2018	2139	2	0	0	O	CLEAR	DRY	FALSE	OTHER INTERSECTION COLLISIONS	REAR END	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
23635598	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.64642738	-83.86306727	14.117	7/1/2018	1815	2	0	0	O	CLOUDY	WET	FALSE	COLLISION IN PARKING LOT	BACKING	STRAIGHT & LEVEL	DAYLIGHT
23640139	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.6516315	-83.88016557	15.11	7/1/2018	0852	1	0	1	A	CLEAR	DRY	FALSE	RAN OFF ROADWAY (1 VEHICLE WITH/EARTH EMBANKMENT/DITCH)	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
23648754	MAYSVILLE POLICE DEPARTMENT	MASON	US0062	US62	38.63190063	-83.7956922	14.386	7/3/2018	1230	2	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE-SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
23667406	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.57561619	-83.27728147	8.052	6/21/2018	1403	2	0	1	C	CLOUDY	WET	FALSE	OPPOSING LEFT TURN	OPPOSING LEFT TURN	CURVE & GRADE	DAYLIGHT
23667407	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.57548487	-83.28472892	8.469	6/19/2018	1820	1	0	0	O	RAINING	WET	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
23667413	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.55417852	-83.58486837	28.386	7/5/2018	1034	2	0	0	O	CLEAR	DRY	FALSE	OPPOSING LEFT TURN	OPPOSING LEFT TURN	STRAIGHT & LEVEL	DAYLIGHT
23671873	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.68481875	-83.94280856	19.338	7/6/2018	1649	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & HILLCREST	DAYLIGHT
23673622	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63187244	-83.79567478	10.253	7/10/2018	1700	2	0	0	O	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	REAR END	STRAIGHT & LEVEL	DAYLIGHT
23680317	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.56693449	-83.63796482	0.203	7/8/2018	1456	2	0	1	C	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
23707813	GREENUP COUNTY SHERIFF DEPT.	GREENUP	US0023	US23	38.6461548	-82.8781224	16.51	6/25/2018	1512	2	0	0	O	RAINING	WET	FALSE	ANGLE	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
23712721	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.57833105	-83.66295251	1.8	7/19/2018	1345	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
23727087	PENDLETON CTY SHERIFF DEPT.	PENDLETON	KY0009	AA	38.85812314	-84.26383213	4.049	7/18/2018	0535	2	0	0	O	CLOUDY	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & GRADE	DAWN
23735098	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.62752627	-83.79067413	9.858	7/24/2018	1957	2	0	0	O	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	REAR END	STRAIGHT & GRADE	DAYLIGHT
23736853	KY STATE POLICE, POST 14	CARTER	KY0009	AA	38.4184721	-83.05852387	8.311	7/25/2018	2044	1	0	0	O	RAINING	ER (STANDING OR MOV	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	CURVE & GRADE	DUSK
23742355	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.58338331	-83.68048674	2.794	7/26/2018	1648	2	0	0	O	CLEAR	DRY	TRUE	COLLISION IN PARKING LOT	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
23751495	PENDLETON CTY SHERIFF DEPT.	PENDLETON	KY0009	AA	38.83243107	-84.26002722	2.243	7/28/2018	2000	1	0	1	B	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	SINGLE VEHICLE	STRAIGHT & GRADE	DUSK
23751510	GREENUP COUNTY SHERIFF DEPT.	GREENUP	KY0010	AA	38.63464611	-83.00651967	3.649	7/23/2018	1114	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DAYLIGHT
23761697	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.58408117	-83.69841242	3.775	7/26/2018	1752	3	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE COLLISION - OPPOSITE DIRECTION	SIDESWIPE-OPPOSITE DIRECTION	CURVE & GRADE	DAYLIGHT
23772778	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63187333	-83.79565901	10.253	7/31/2018	1511	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
23772881	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63386897	-83.79862453	10.467	8/3/2018	1340	2	0	0	O	CLOUDY	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
23780988	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63116524	-83.79473518	10.184	5/14/2018	1437	2	0	1	C	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
23785549	CARTER COUNTY SHERIFF DEPT.	CARTER	KY0009	AA	38.40765347	-83.02971386	6.488	8/4/2018	1200	2	0	2	C	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	REAR END	STRAIGHT & LEVEL	DAYLIGHT
23789169	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.62913402	-83.792138	9.99	8/7/2018	1335	2	0	0	O	CLOUDY	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
23803509	KY STATE POLICE, POST 08	MASON	KY0009	AA	38.60142186	-83.75430732	7.131	8/3/2018	2139	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
23820728	MAYSVILLE POLICE DEPARTMENT	MASON	KY1448	MAPLE LEAF	38.61769111	-83.78015494	5.416	8/14/2018	1821	2	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE-SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
23871501	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63296465	-83.79729185	10.37	8/23/2018	1800	2	0	0	O	CLOUDY	DRY	FALSE	COLLISION IN PARKING LOT	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
23889724	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63243031	-83.79634856	10.307	8/27/2018	1536	2	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE COLLISION - SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
23904472	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63217447	-83.79611892	10.286	8/24/2018	1638	4	0	2	C	CLEAR	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
23935727	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.68035533	-83.92986404	18.559	9/1/2018	2206	1	0	1	B	CLEAR	DRY	FALSE	RAN OFF ROADWAY (1 VEHICLE WITH/EARTH EMBANKMENT/DITCH)	SINGLE VEHICLE	CURVE & GRADE	DARK-HWY NOT LIGHTED
23936261	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63292768	-83.79719561	10.365	8/31/2018	1032	2	0	0	O	CLEAR	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
23944611	KY STATE POLICE, POST 08	MASON	KY0009	AA	38.60317773	-83.76184002	7.555	8/30/2018	1747	2	0	0	O	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	REAR END	STRAIGHT & LEVEL	DAYLIGHT
23962104	GREENUP COUNTY SHERIFF DEPT.	GREENUP	KY0010	AA	38.64609515	-82.97831395	11.565	9/4/2018	1630	2	0	0	O	CLEAR	DRY	FALSE	ANGLE COLLISION - ONE VEHICLE TURNING LEFT	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
23977886	CARTER COUNTY SHERIFF DEPT.	CARTER	KY0009	AA	38.4765837	-83.14780982	15.819	9/7/2018	1310	1	0	0	O	CLEAR	DRY	TRUE	1 VEHICLE PARKED POSITION (NOT PARKING LOT/DRIVEWAY)	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
24013687	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63190397	-83.79569554	10.255	9/19/2018	0544	2	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE-SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
24035271	MAYSVILLE POLICE DEPARTMENT	MASON	US0062	US62	38.63181405	-83.7957406	14.381	9/20/2018	1210	2	0	0	O	CLEAR	DRY	FALSE	OTHER INTERSECTION COLLISIONS	REAR END	STRAIGHT & LEVEL	DAYLIGHT
24042408	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.62753789	-83.79053185	9.85	9/25/2018	1628	2	0	0	O	CLOUDY	DRY	FALSE	ANGLE COLLISION - OTHER	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
24053705	GREENUP COUNTY SHERIFF DEPT.	GREENUP	US0023	US23	38.64608589	-82.8781444	16.506	9/7/2018	2051	2	0	0	O	RAINING	WET	FALSE	ANGLE COLLISION - ONE VEHICLE TURNING LEFT	ANGLE	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
24081345	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.59051723	-83.7097296	4.538	10/1/2018	1238	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
24100431	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.60320873	-83.76192061	7.56	9/30/2018	0800	2	0	0	O	FOG	DRY	FALSE	ANGLE COLLISION - OTHER	ANGLE	STRAIGHT & LEVEL	DAWN
24105240	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.64264884	-83.82796134	12.194	10/9/2018	1655	2	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE COLLISION - SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
24109145	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63742904	-83.80442795	10.852	10/11/2018	0803	2	0	1	C	CLEAR	DRY	FALSE	OTHER INTERSECTION COLLISIONS	REAR END	STRAIGHT & LEVEL	DAYLIGHT
24117560	MAYSVILLE POLICE DEPARTMENT	MASON		WALMART	38.62112999	-83.78356239	0.412	10/13/2018	1439	2	0	0	O	CLOUDY	DRY	FALSE	OTHER INTERSECTION COLLISIONS	REAR END	STRAIGHT & GRADE	DAYLIGHT
24117772	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.58041612	-83.67011376	2.214	10/6/2018	0230	1	0	2	B	CLEAR	DRY	FALSE	OTHER COLLISIONS ON SHOULDER	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
24128997	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY1109	WESTERN HILLS	38.75845485	-84.15058782	3.45	9/5/2018	0810	2	0	0	O	CLEAR	DRY

AA Highway Improvements Study Crash Data (2014-2019)																		
Incident Id	Agency Name	County	Roaway Number	Roadway Name	Latitude	Longitude	Milepoint	Collision Date	Collision Time	Units Involved	Number Killed	Number Injured	Severity	Weather	Roadway Condition	Hit and Run?	Directional Analysis	Manner of Collision	Roadway Characteristic	Light Condition
24241530	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.60145793	-83.75448505	7.141	11/11/2018	1949	1	0	0	O	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
24242059	KY STATE POLICE, POST 14	CARTER	KY0009	AA	38.411652	-83.04902922	7.604	11/9/2018	0715	1	0	0	O	RAINING	WET	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DAYLIGHT
24250489	GREENUP COUNTY SHERIFF DEPT.	GREENUP	KY0784	KY784	38.63767955	-83.00300807	28.593	10/27/2018	1330	2	0	2	C	CLOUDY	WET	FALSE	HEAD-ON COLLISION	HEAD ON	STRAIGHT & LEVEL	DAYLIGHT
24255176	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.64228031	-83.82470418	12.011	11/14/2018	0455	1	0	0	O	CLOUDY	DRY	FALSE	OTHER COLLISIONS ON SHOULDER	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY LIGHTED/ON
24260120	PENDLETON CTY SHERIFF DEPT.	PENDLETON	KY0009	AA	38.86153024	-84.2641342	4.312	11/8/2018	2000	1	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
24269311	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.60077222	-83.74884904	6.83	11/17/2018	1845	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY LIGHTED/OFF
24273134	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6274821	-83.79061229	9.852	11/16/2018	1415	2	0	0	O	CLOUDY	DRY	FALSE	ANGLE COLLISION - OTHER	ANGLE	STRAIGHT & GRADE	DAYLIGHT
24279605	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.57987027	-83.66836301	2.112	11/1/2018	1905	1	0	0	O	RAINING	WET	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
24288061	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63266689	-83.79786471	10.384	11/21/2018	2030	2	0	0	N/A	CLEAR	DRY	TRUE	COLLISION IN PARKING LOT	BACKING	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
24293958	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.64355462	-83.83560707	12.616	11/21/2018	1835	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
24293963	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.61776961	-83.78013011	8.967	11/20/2018	2108	2	0	2	A	CLEAR	WET	FALSE	OTHER INTERSECTION COLLISIONS	REAR END	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
24293966	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.61799326	-83.78034948	8.991	11/19/2018	1630	2	0	0	O	RAINING	WET	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	REAR END	CURVE & LEVEL	DAYLIGHT
24300946	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.57069312	-83.64959449	0.898	11/27/2018	0911	1	0	0	N/A	SNOWING	SNOW/SLUSH	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & GRADE	DAYLIGHT
24307351	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.68341737	-83.93834383	19.072	11/27/2018	1014	2	0	0	O	SNOWING	SNOW/SLUSH	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & GRADE	DAYLIGHT
24307718	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.57464326	-83.655513	1.319	11/22/2018	2244	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
24307781	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.65347373	-83.88753642	15.528	11/27/2018	0903	2	0	1	B	SNOWING	ICE	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
24309869	MAYSVILLE POLICE DEPARTMENT	MASON		MARTHA COMER	38.63893823	-83.81113839	0.013	11/28/2018	1640	2	0	0	O	CLOUDY	DRY	FALSE	ANGLE COLLISION - ONE VEHICLE TURNING LEFT	ANGLE	STRAIGHT & LEVEL	DARK (UNKNOWN ROADWAY LIGHTING)
24324617	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63187644	-83.79567865	10.254	12/2/2018	1048	2	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE COLLISION - SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
24324635	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.62114604	-83.78372296	9.272	11/30/2018	2159	2	0	0	O	CLEAR	DRY	FALSE	OPPOSING LEFT TURN	OPPOSING LEFT TURN	CURVE & LEVEL	DARK-HWY LIGHTED/ON
24334336	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.64961728	-83.87426444	14.761	12/3/2018	1845	2	0	0	O	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	OPPOSING LEFT TURN	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
24335139	KY STATE POLICE, POST 08	LEWIS	KY0009	AA	38.56278774	-83.53747453	25.572	11/27/2018	0911	2	1	1	K	SNOWING	ICE	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & GRADE	DAYLIGHT
24339561	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.64353304	-83.8356718	12.618	12/4/2018	1722	2	0	1	C	SNOWING	WET	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
24339637	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.64338992	-83.83533927	12.603	12/4/2018	1711	2	0	0	O	CLEAR	DRY	FALSE	ANGLE COLLISION - OTHER	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
24352578	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.62324945	-83.78547838	9.419	12/8/2018	1330	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
24355317	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.64844036	-83.87137109	14.585	12/6/2018	1800	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
24368491	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63213207	-83.79653361	10.304	12/12/2018	1230	2	0	0	O	CLEAR	DRY	FALSE	COLLISION IN PARKING LOT	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
24390275	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63207019	-83.79597235	10.275	12/4/2018	1125	2	0	0	O	CLOUDY	DRY	FALSE	VEHICLE BACKING NON INTERSECTION	BACKING	STRAIGHT & LEVEL	DAYLIGHT
24417580	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.62290708	-83.78565062	9.433	12/23/2018	1850	2	0	0	O	RAINING	WET	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
24422310	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.59892217	-83.7352621	6.085	12/23/2018	0816	1	0	0	O	CLEAR	ICE	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
24442320	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.67666108	-83.92591373	18.232	12/27/2018	0615	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
24443039	KY STATE POLICE, POST 14	CARTER	KY0009	AA	38.39158806	-83.01174867	4.979	12/26/2018	1827	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
24444102	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	GRAYSON	38.55357861	-83.23888974	5.421	10/5/2018	2035	1	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
24444105	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.57269144	-83.43312322	18.551	11/21/2018	1445	2	0	0	O	CLEAR	DRY	FALSE	OPPOSING LEFT TURN	OPPOSING LEFT TURN	STRAIGHT & LEVEL	DAYLIGHT
24452619	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.73628083	-84.11048748	10.86	1/4/2019	0549	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
24453423	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.75236458	-84.13741399	12.757	11/7/2018	0750	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DAYLIGHT
24453487	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.76116095	-84.16147524	14.204	11/13/2018	2029	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
24453491	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.73199724	-84.01830884	5.71	12/23/2018	2128	1	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
24453495	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.76390365	-84.17454504	14.934	11/29/2018	1450	1	0	1	C	CLOUDY	WET	FALSE	RAN OFF ROADWAY (1 VEHICLE WITH/EARTH EMBANKMENT/DITCH)	SINGLE VEHICLE	STRAIGHT & GRADE	DAYLIGHT
24453496	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.75218427	-84.13698171	12.731	12/13/2018	1928	2	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH NON-FIXED OBJECT	HEAD ON	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
24453551	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.73284832	-84.10350305	10.399	12/24/2018	0911	2	0	0	O	CLEAR	ICE	FALSE	SIDESWIPE COLLISION - OPPOSITE DIRECTION	SIDESWIPE-OPPOSITE DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
24467921	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63242483	-83.79646915	10.311	1/7/2019	1819	2	0	1	C	CLOUDY	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
24475350	GREENUP COUNTY SHERIFF DEPT.	GREENUP	KY0010	AA	38.64499798	-82.88375182	11.276	1/2/2019	1850	1	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
24475510	MAYSVILLE POLICE DEPARTMENT	MASON		MARKET SQUARE DIVIDE	38.62747048	-83.79060828	0.009	1/8/2019	1548	2	0	0	O	CLOUDY	DRY	FALSE	REAR END - ONE VEHICLE TURNING RIGHT	REAR END	CURVE & GRADE	DAYLIGHT
24485383	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63072922	-83.79404623	10.138	1/9/2019	1342	1	0	0	O	CLEAR	DRY	FALSE	COLLISION IN PARKING LOT	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
24485386	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63747096	-83.80485995	10.841	1/9/2019	1905	2	0	0	O	CLOUDY	DRY	FALSE	SIDESWIPE COLLISION - SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DARK-HWY LIGHTED/OFF
24498171	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.73285503	-84.10341579	10.364	1/14/2019	0615	2	0	1	B	CLOUDY	WET	FALSE	SIDESWIPE COLLISION - OPPOSITE DIRECTION	SIDESWIPE-OPPOSITE DIRECTION	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
24499070	KY STATE POLICE, POST 06	BRACKEN	KY0009	AA	38.78748345	-84.21110742	17.877	1/10/2019	1457	2	0	1	A	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
24499072	KY STATE POLICE, POST 06	MASON	KY0009	AA	38.67684987	-83.926285	18.256	1/13/2019	1850	1	0	0	O	CLOUDY	WET	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
24499724	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.64344355	-83.83566434	12.621	1/12/2019	0650	2	0	0	O	SNOWING	SNOW/SLUSH	FALSE	ANGLE COLLISION - OTHER	ANGLE	STRAIGHT & HILLCREST	DAYLIGHT
24531341	PENDLETON CTY SHERIFF DEPT.	PENDLETON	KY0009	AA	38.836316	-84.26033936	2.528	1/12/2019	0317	1	0	0	O	SNOWING	SNOW/SLUSH	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
24531343	PENDLETON CTY SHERIFF DEPT.	PENDLETON	KY0009	AA	38.81560067	-84.24627645	0.794	1/15/2019	0640	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
24531345	PENDLETON CTY SHERIFF DEPT.	PENDLETON	KY0009	AA	38.81278443	-84.24337068	0.536	1/15/2019	0640	1	0	0	O	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
24541739	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.56234562	-83.61401147	30.074	1/21/2019	1728	3	0	2	B	CLEAR	DRY	FALSE	REAR END - ONE VEHICLE TURNING LEFT	REAR END	STRAIGHT & LEVEL	DAYLIGHT
24544256	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.68468346	-83.94209918	19.284	1/24/2019	1828	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
24552341	KY STATE POLICE, POST 14	CARTER	KY0009	AA	38.46478253	-83.12301549	14.256	1/24/2019	0700	1	0	0	O	SNOWING	SNOW/SLUSH	FALSE	RAN OFF ROADWAY (1 VEHICLE WITH/EARTH EMBANKMENT/DITCH)	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
24554818	GREENUP COUNTY SHERIFF DEPT.	GREENUP	US0023	US23	38.6459951	-82.8782569	16.443	12/19/2018	0958	2	0	0	O	CLEAR	DRY	FALSE	ANGLE COLLISION - OTHER	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
24560159	GREENUP COUNTY SHERIFF DEPT.	GREENUP	KY0010	AA	38.62391628	-83.04492823	1.396	1/6/2018	1640	2	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE-SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
24565690	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.60600991	-83.76630138	7.866	1/24/2019	0750	1	0	0	O	SNOWING	ICE	FALSE	RAN OFF ROADWAY (1 VEHICLE WITH/EARTH EMBANKMENT/DITCH)	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
24565693	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63344147	-83.79797041	10.42	1/24/2019	1548	2	0	0	O	FOG	WET	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	CURVE & LEVEL	DAYLIGHT
24586012	KY STATE POLICE, POST 14	GREENUP	KY0010	AA	38.62264764	-82.91730951	8.874	2/1/2019	1810	1	0	0	O	CLEAR	SNOW/SLUSH	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
24586086	KY STATE POLICE, POST 14	GREENUP	KY0010	AA	38.62467202	-82.94090176	7.552	2/1/2019	1055	1	0	0	O	SNOWING	SNOW/SLUSH	FALSE	RAN OFF ROADWAY (1 VEHICLE WITH/EARTH EMBANKMENT/DITCH)	SINGLE VEHICLE	STRAIGHT & HILLCREST	DARK-HWY NOT LIGHTED
24598643	PENDLETON CTY SHERIFF DEPT.	PENDLETON	KY0009	AA	38.81161825	-84.24048915	0.349	1/16/2019	2142	1	0	0	O	CLOUDY	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
24600420	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.64191398	-83.82118324	11.81	2/6/2019	1410	2	0	0	O	CLOUDY	WET	FALSE	SIDESWIPE COLLISION - SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
24608933	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63206444	-83.79595795	10.274	11/12/2018	1637	2	0	1	C	CLOUDY	WET	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	REAR END	STRAIGHT & LEVEL	DAYLIGHT
24609492	MAYSVILLE POLICE DEPARTMENT	MASON	US0062	US62	38.63198629	-83.79549259	14.375	2/7/2019	2130	2	0	0	O	RAINING	WET	FALSE	OTHER INTERSECTION COLLISIONS	REAR END	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
24611667	MAYSVILLE POLICE DEPARTMENT	MASON	US0068	CLYDE T BARBOUR	38.64648213	-83.83072227	0.313	2/8/2019	0930	2	0	0	O	CLOUDY	DRY	FALSE	OTHER RAMP RELATED COLLISIONS NOT LISTED ABOVE	REAR END	STRAIGHT & GRADE	DAYLIGHT
24626796	PENDLETON CTY SHERIFF DEPT.	PENDLETON	KY0009	AA	38.83616197	-84.26039568	2.516	2/11/2019	1741	2	0	2	B	RAINING	WET	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DUSK
24637979	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.57549407	-83.27746888	8.064	12/4/2018	1218	1	0	1	C	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	SINGLE VEHICLE	CURVE & GRADE	DAYLIGHT
24637980	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.58569613	-83.37131323	14.727	1/5/2019	1329	1	0	1	C	CLEAR	DRY	FALSE	OTHER COLLISIONS ON SHOULDER	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
24637991	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.57478668	-83.31175266	10.027	1/19/2019	1640	1	0	0	O	RAINING	WET	FALSE	OTHER COLLISIONS ON SHOULDER	SINGLE VEHICLE	CURVE & GRADE	DAYLIGHT
24638029	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.57460987	-83.31332058	10.104	11/25/2018	2025	3	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE COLLISION - OPPOSITE DIRECTION	SIDESWIPE-OPPOSITE DIRECTION	CURVE & GRADE	DARK-HWY NOT LIGHTED
24638035	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0010	KY10	38.59458199	-83.19082611	12.082	10/26/2018	1241	2	0	0	O	RAINING	WET	FALSE	SIDESWIPE COLLISION - OPPOSITE DIRECTION	SIDESWIPE-OPPOSITE DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
24638049	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.5578315	-83.59551011	29.017	5/29/2018	0145	2	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE COLLISION - SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
24638051	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0010	KY10	38.60673519	-83.15453783	14.365	2/27/2018	1504	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
24638086	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.55824529	-83.59710305	29.109	11/15/2018	1552	3	0	0	O	RAINING	WET	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	OPPOSING LEFT TURN	STRAIGHT & LEVEL	DAYLIGHT
24638094	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0010	KY10	38.59220861	-83.20649686	11.21	9/24/2018	1745	2	0	1	C	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
24638121	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.56228108	-83.61388913	30.069	6/9/2018	1645	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
24638122	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.55417979	-83.58468023	28.388	6/14/2018	1614	2	0	1	A	CLEAR	DRY	FALSE	HEAD-ON COLLISION	HEAD ON	STRAIGHT & LEVEL	DAYLIGHT
24638132	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.55423948	-83.58479652	28.38	4/10/2018	1310	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	CURVE & LEVEL	DAYLIGHT
24638144	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.57530864	-83.28354976	8.403	9/1/2018	1000	2	0	1	B	CLEAR	DRY	FALSE	HEAD-ON COLLISION	HEAD ON	STRAIGHT & GRADE	DAYLIGHT
24643161	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.62755586	-83.80427617	9.853	12/2/2018	0820	2	0	0	O	FOG	ICE	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & GRADE	DAYLIGHT
24643145	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63728237	-83.80436397	10.861	2/13/2019	1634	2	0	1	B	CLEAR	DRY	FALSE	ANGLE COLLISION - OTHER	ANGLE	STRAIGHT & GRADE	DAYLIGHT
24647625	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.64628044	-83.86163732	14.04	2/17/2018	2044	1	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
24654677	KY STATE POLICE, POST 06	BRACKEN	KY0009	AA	38.76567123	-84.18283261	15.397	2/3/2019	1020	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DAYLIGHT
24694393	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.69170721	-83.94991687	0.419	1/23/2019	0930	1	0	0	O	RAINING	WET	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & GRADE	DAYLIGHT
24694424	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.79998991	-84.21957251	18.799	2/15/2019	1248	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
24694431	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.73264486	-84.10093904	10.265	2/2/2019	0817	2	0	1	A	FOG	WET	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
24694451	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.76757085	-84.19188467	15.907	2/4/2019	1800	1	0	0	O	RAINING	WET	FALSE	COLLISION WITH NON-FIXED OBJECT	SINGLE VEHICLE	STRAIGHT & GRADE	DUSK
24699371	GREENUP COUNTY SHERIFF DEPT.	GREENUP	KY0010	AA	38.62099167	-83.06007408	0.553	2/25/2019	0931	2	0	0	O	CLEAR	DRY	FALSE	OPPOSITE DIRECTION - BOTH VEHICLES GOING STRAIGHT AHEAD	SIDESWIPE-OPPOSITE DIRECTION	CURVE & GRADE	DAYLIGHT
24707213	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.60336762	-83.76231514	7.584	3/1/2019	1240	1	0	0	O	CLOUDY	DRY	FALSE	NON-COLLISION OBJECT COLLISION	SINGLE VEHICLE	CURVE & LEVEL	DAYLIGHT
24712354	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63188312	-83.79568392	10.254	2/28/2019	1054	2

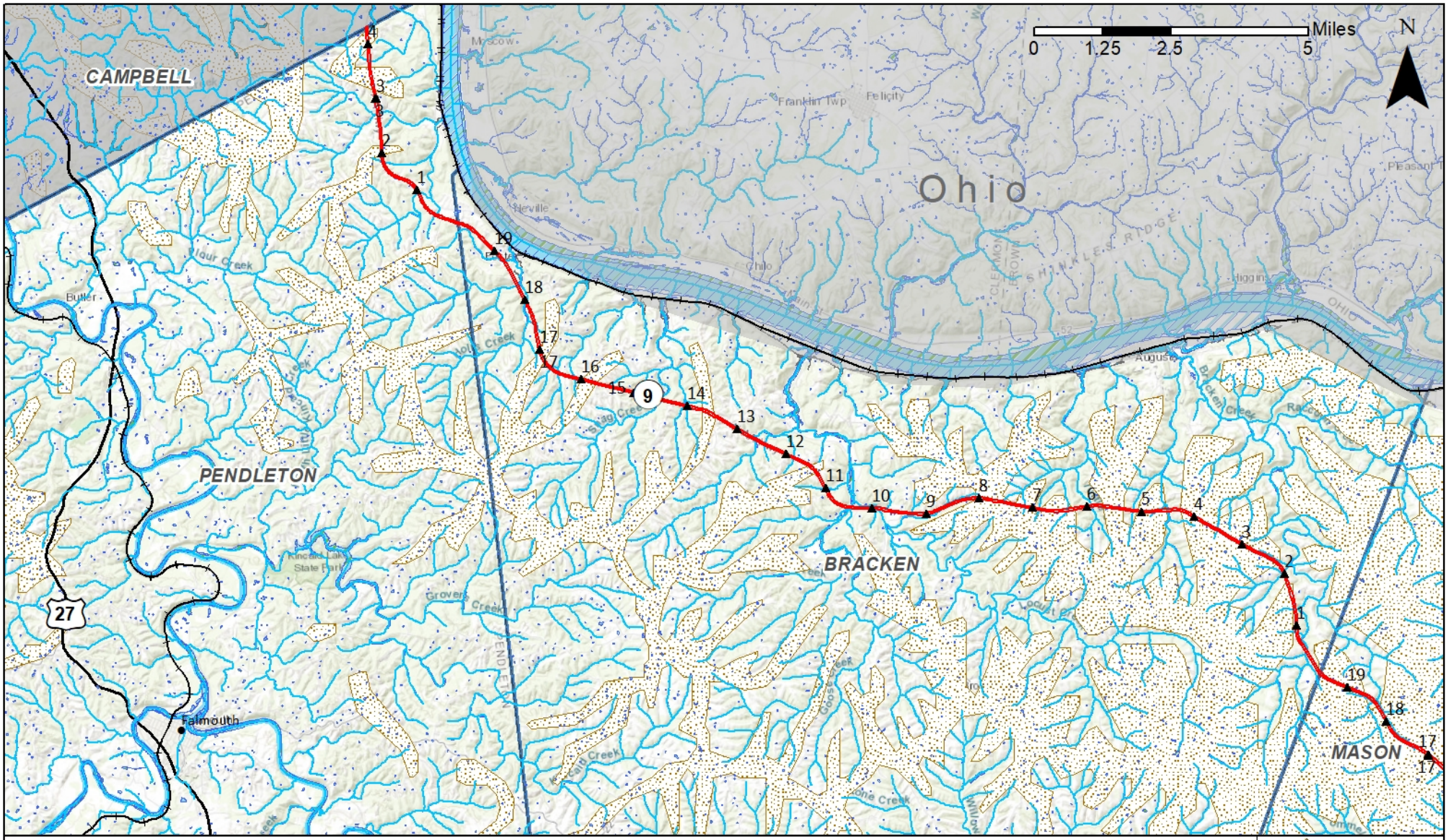
AA Highway Improvements Study Crash Data (2014-2019)																			
Incident Id	Agency Name	County	Roaway Number	Roadway Name	Latitude	Longitude	Milepoint	Collision Date	Collision Time	Units Involved	Number Killed	Number Injured	Severity	Weather	Roadway Condition	Hit and Run?	Directional Analysis	Manner of Collision	Roadway Characteristic	Light Condition
24968514	VANCEBURG POLICE DEPARTMENT	LEWIS	KY0009	AA	38.57730537	-83.32262885	10.603	4/12/2019	1348	1	0	0	O	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	SINGLE VEHICLE	CURVE & HILLCREST	DAYLIGHT
24970514	PENDLETON CTY SHERIFF DEPT.	PENDLETON	KY0009	AA	38.85534238	-84.26362945	3.857	3/20/2019	1723	4	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
24996664	GREENUP COUNTY SHERIFF DEPT.	GREENUP	KY0010	AA	38.62226675	-82.92778581	8.289	4/26/2019	1622	2	0	0	O	CLOUDY	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
25041810	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.61772291	-83.78004109	8.961	5/7/2019	2200	2	0	0	O	CLEAR	DRY	FALSE	OTHER INTERSECTION COLLISIONS	REAR END	CURVE & LEVEL	DARK-HWY LIGHTED/ON
25042938	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.58288267	-83.68506826	3.046	5/7/2019	1631	2	0	3	C	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & HILLCREST	DAYLIGHT
25046990	KY STATE POLICE, POST 06	PENDLETON	KY0009	AA	38.81450197	-84.24541332	0.703	5/7/2019	1731	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	CURVE & GRADE	DAYLIGHT
25047841	CARTER COUNTY SHERIFF DEPT.	CARTER	KY0009	AA	38.38286301	-83.00490921	4.261	5/3/2019	1932	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
25072123	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.6025199	-83.76067814	7.479	5/15/2019	1200	2	0	0	O	CLOUDY	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
25097049	MAYSVILLE POLICE DEPARTMENT	MASON	US0062	US62	38.63228271	-83.79510649	14.426	5/21/2019	1530	2	0	0	O	CLEAR	DRY	FALSE	OTHER INTERSECTION COLLISIONS	REAR END	STRAIGHT & LEVEL	DAYLIGHT
25097716	KY STATE POLICE, POST 14	CARTER	KY0009	AA	38.36166953	-82.9719995	1.904	5/10/2019	1237	3	0	1	C	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
25126324	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.6324667	-83.79655542	10.317	5/27/2019	1120	2	0	0	O	CLEAR	DRY	FALSE	COLLISION IN PARKING LOT	BACKING	STRAIGHT & LEVEL	DAYLIGHT
25136637	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.65050363	-83.87706635	14.925	5/25/2019	1850	1	0	0	O	CLEAR	DRY	FALSE	COLLISION IN PARKING LOT	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
25144043	VANCEBURG POLICE DEPARTMENT	LEWIS	KY0009	AA	38.57669116	-83.32151791	10.537	5/20/2019	1420	2	0	0	O	CLEAR	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
25194349	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.59851288	-83.73244711	5.926	6/9/2019	1317	1	0	0	O	RAINING	WET	FALSE	RAN OFF ROADWAY (1 VEHICLE WITH/EARTH EMBANKMENT/DITCH)	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
25196360	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.62747875	-83.79061493	9.854	6/10/2019	1100	2	0	0	O	RAINING	WET	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & GRADE	DAYLIGHT
25218064	PENDLETON CTY SHERIFF DEPT.	PENDLETON	KY0009	AA	38.83469251	-84.2602003	2.407	6/3/2019	0727	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DAWN
25219562	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63229715	-83.79585192	10.285	6/16/2019	1554	2	0	0	N/A	CLEAR	DRY	TRUE	COLLISION IN PARKING LOT	BACKING	STRAIGHT & LEVEL	DAYLIGHT
25228363	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.66505968	-83.91045501	17.037	6/17/2019	2357	1	0	0	O	RAINING	WET	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
25236343	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63257758	-83.79569342	10.302	6/18/2019	1715	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
25250683	CARTER COUNTY SHERIFF DEPT.	CARTER	KY0009	AA	38.43357668	-83.06354395	9.409	6/20/2019	1008	1	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DAYLIGHT
25252702	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63305429	-83.79741341	10.379	6/20/2019	1800	2	0	0	O	FOG	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
25252705	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.62296446	-83.7854958	9.435	6/20/2019	1953	2	0	0	O	CLOUDY	DRY	FALSE	ANGLE COLLISION - ONE VEHICLE TURNING LEFT	ANGLE	STRAIGHT & GRADE	DAYLIGHT
25253433	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.57586855	-83.51001716	23.797	4/18/2019	1337	1	0	0	O	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	SINGLE VEHICLE	CURVE & LEVEL	DAYLIGHT
25253436	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.57553562	-83.29681326	9.149	4/26/2019	1427	1	0	0	O	CLOUDY	ER (STANDING OR MOV	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	CURVE & GRADE	DAYLIGHT
25253444	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0010	KY10	38.59105296	-83.22912823	9.959	6/6/2019	0625	1	0	0	O	CLOUDY	DRY	FALSE	RAN OFF ROADWAY (1 VEHICLE WITH/EARTH EMBANKMENT/DITCH)	SINGLE VEHICLE	CURVE & LEVEL	DAYLIGHT
25253457	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0010	KY10	38.59587893	-83.17632775	12.903	4/26/2019	1748	2	0	2	C	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
25253458	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0010	KY10	38.59456325	-83.19094074	12.083	4/24/2019	1728	2	0	1	C	CLEAR	DRY	FALSE	SIDESWIPE COLLISION - SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
25253460	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.55424038	-83.58480668	28.38	3/8/2019	1343	2	0	0	O	CLEAR	DRY	FALSE	ANGLE COLLISION - OTHER	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
25253461	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.58954367	-83.34919476	13.238	4/25/2019	1507	2	0	0	O	CLEAR	DRY	FALSE	HEAD-ON COLLISION	HEAD ON	CURVE & LEVEL	DAYLIGHT
25253471	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY1021	BRIARY	38.60775615	-83.10957556	2.516	3/30/2019	1634	2	0	0	O	CLEAR	DRY	FALSE	ANGLE COLLISION - ONE VEHICLE TURNING LEFT	ANGLE	CURVE & LEVEL	DAYLIGHT
25253474	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.57560635	-83.306583	9.75	6/10/2019	1155	2	1	0	K	RAINING	WET	FALSE	HEAD-ON COLLISION	HEAD ON	CURVE & GRADE	DAYLIGHT
25253476	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.57849773	-83.50195327	23.319	4/12/2019	2250	1	0	2	B	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL IN INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
25253477	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	GRAYSON	38.51942765	-83.20018284	1.814	4/28/2019	2035	2	0	0	O	CLEAR	DRY	FALSE	OTHER INTERSECTION COLLISIONS	REAR END	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
25253489	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.57558568	-83.27721372	8.049	2/18/2019	0525	1	1	0	K	CLEAR	DRY	FALSE	COLLISION WITH FIXED OBJECT IN INTERSECTION - FIRST EVENT COLLISION 09 - 32	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
25253490	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	GRAYSON	38.57632015	-83.27755962	8.001	3/1/2019	0243	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH FIXED OBJECT IN INTERSECTION - FIRST EVENT COLLISION 09 - 32	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
25254700	PENDLETON CTY SHERIFF DEPT.	PENDLETON	KY0009	AA	38.81044709	-84.23642926	0.119	6/12/2019	1010	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
25255228	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63300648	-83.79669507	10.35	6/24/2019	1430	2	0	0	O	RAINING	WET	FALSE	COLLISION IN PARKING LOT	REAR END	STRAIGHT & LEVEL	DAYLIGHT
25255230	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63203527	-83.79592268	10.271	6/24/2019	1341	2	0	0	O	RAINING	WET	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	REAR END	STRAIGHT & LEVEL	DAYLIGHT
25323101	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.64794258	-83.86907883	14.457	7/1/2019	1355	1	0	0	O	CLEAR	DRY	FALSE	RAN OFF ROADWAY (1 VEHICLE WITH/EARTH EMBANKMENT/DITCH)	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
25336403	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63358519	-83.79750501	10.408	7/13/2019	1329	2	0	0	O	CLEAR	DRY	FALSE	COLLISION IN PARKING LOT	REAR TO REAR	STRAIGHT & LEVEL	DAYLIGHT
25336409	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.61783248	-83.77984465	8.963	7/13/2019	1617	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
25342326	KY STATE POLICE, POST 14	GREENUP	KY0010	AA	38.62771805	-82.94879915	6.542	7/12/2019	1225	2	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE COLLISION - SAME DIRECTION	SIDESWIPE-SAME DIRECTION	CURVE & GRADE	DAYLIGHT
25349136	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.64773166	-83.86836032	14.416	7/17/2019	0520	1	0	0	O	CLOUDY	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
25353616	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.58252816	-83.68289949	2.925	7/13/2019	2330	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
25358089	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63266787	-83.79676318	10.335	7/18/2019	1056	2	0	0	O	CLEAR	DRY	FALSE	COLLISION IN PARKING LOT	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
25382885	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.59999811	-83.74321894	6.519	7/24/2019	1641	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
25383979	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63317001	-83.79757634	10.39	7/23/2019	1602	2	0	1	B	CLEAR	DRY	FALSE	ANGLE COLLISION - OTHER	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
25383980	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARKETSQUARE DRIVE	38.62746502	-83.7906096	9.851	7/23/2019	1222	2	0	0	O	CLEAR	DRY	FALSE	ANGLE COLLISION - ONE VEHICLE TURNING LEFT	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
25395575	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63335664	-83.79766984	10.404	7/27/2019	1607	2	0	0	N/A	CLEAR	DRY	TRUE	COLLISION IN PARKING LOT	SIDESWIPE-OPPOSITE DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
25395641	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.62911001	-83.79214787	9.99	7/24/2019	1630	2	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE COLLISION - SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
25398906	CARTER COUNTY SHERIFF DEPT.	CARTER	KY0009	AA	38.46205739	-83.09716247	12.803	7/29/2019	0840	1	0	0	O	CLEAR	DRY	FALSE	OTHER COLLISIONS ON SHOULDER	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
25400017	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.65016364	-83.87618023	17.272	7/26/2019	2230	2	0	0	N/A	CLEAR	DRY	TRUE	COLLISION IN PARKING LOT	BACKING	STRAIGHT & LEVEL	OTHER
25412469	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.62477359	-83.78768966	9.607	7/31/2019	1222	2	0	1	B	CLEAR	DRY	FALSE	ANGLE COLLISION - OTHER	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
25417048	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.60337464	-83.7626333	7.601	8/1/2019	1308	2	0	0	O	CLEAR	DRY	FALSE	OTHER INTERSECTION COLLISIONS	REAR TO REAR	STRAIGHT & GRADE	DAYLIGHT
25417797	MASON COUNTY SHERIFF	MASON	KY1449	ORANGEBURG	38.5843506	-83.69848889	1.278	7/19/2019	0800	2	0	0	O	CLEAR	DRY	FALSE	OTHER INTERSECTION COLLISIONS	REAR END	STRAIGHT & LEVEL	DAYLIGHT
25427468	GREENUP COUNTY SHERIFF DEPT.	GREENUP	KY0010	AA	38.64608686	-82.87813826	11.582	7/26/2019	1836	2	0	3	B	CLEAR	DRY	FALSE	HEAD-ON COLLISION	HEAD ON	STRAIGHT & LEVEL	DAYLIGHT
25428135	KY STATE POLICE, POST 14	CARTER	KY0009	AA	38.362808	-82.97440543	2.06	7/31/2019	0918	2	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE COLLISION - OPPOSITE DIRECTION	SIDESWIPE-OPPOSITE DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
25438629	MAYSVILLE POLICE DEPARTMENT	MASON	US0062	US62	38.63191811	-83.79565798	14.384	8/6/2019	1410	2	0	0	O	CLOUDY	DRY	FALSE	SIDESWIPE-SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
25438630	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.60320445	-83.76223604	7.573	8/6/2019	1640	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
25440109	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.61466091	-83.7767369	8.689	8/3/2019	1812	2	0	1	B	CLEAR	DRY	TRUE	SIDESWIPE COLLISION - SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & GRADE	DAYLIGHT
25449664	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.62749508	-83.79057857	9.849	8/8/2019	0837	2	0	0	O	CLEAR	DRY	FALSE	OTHER INTERSECTION COLLISIONS	REAR END	STRAIGHT & LEVEL	DAYLIGHT
25453152	CARTER COUNTY SHERIFF DEPT.	CARTER	KY0009	AA	38.4077055	-83.02989607	6.497	7/30/2019	1249	2	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE COLLISION - SAME DIRECTION	SIDESWIPE-SAME DIRECTION	CURVE & LEVEL	DAYLIGHT
25462891	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.58284799	-83.68529925	3.059	8/9/2019	1937	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & GRADE	DAYLIGHT
25467885	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.73123001	-84.01225714	5.38	4/17/2019	0021	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
25467892	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.76276195	-84.16910012	14.63	4/23/2019	1546	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & GRADE	DAYLIGHT
25467988	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.73159619	-84.01532162	5.546	6/23/2019	0815	2	0	4	B	CLEAR	DRY	FALSE	ANGLE COLLISION - OTHER	ANGLE	STRAIGHT & LEVEL	DAYLIGHT
25468045	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.76746128	-84.1913942	15.879	6/13/2019	1745	2	0	1	C	CLEAR	DRY	TRUE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & GRADE	DAYLIGHT
25468058	BRACKEN COUNTY SHERIFF DEPT.	BRACKEN	KY0009	AA	38.73434147	-84.06519065	8.282	6/11/2019	0020	1	0	0	O	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
25470935	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.60318839	-83.76220287	7.571	8/13/2019	1810	2	0	0	O	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
25502783	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63882864	-83.81008258	11.184	8/19/2019	0012	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
25519213	KY STATE POLICE, POST 06	BRACKEN	KY0009	AA	38.77321553	-84.20601454	16.792	8/13/2019	1704	2	0	0	O	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	REAR END	STRAIGHT & LEVEL	DAYLIGHT
25519573	CARTER COUNTY SHERIFF DEPT.	CARTER	KY0009	AA	38.4618673	-83.10239831	13.087	8/17/2019	1448	2	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE COLLISION - OPPOSITE DIRECTION	SIDESWIPE-OPPOSITE DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
25526674	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63682602	-83.80315307	10.789	8/20/2019	1340	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & LEVEL	DAYLIGHT
25547666	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.62102887	-83.78341019	9.259	8/22/2019	1423	2	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE COLLISION - SAME DIRECTION	SIDESWIPE-SAME DIRECTION	CURVE & LEVEL	DAYLIGHT
25548353	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.56947819	-83.64759957	0.761	8/22/2019	2027	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DAYLIGHT
25549818	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.58797169	-83.70609212	4.273	8/16/2019	2219	2	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE COLLISION - OPPOSITE DIRECTION	SIDESWIPE-OPPOSITE DIRECTION	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
25550101	KY STATE POLICE, POST 06	BRACKEN	KY0009	AA	38.76346853	-84.17239104	14.814	8/19/2019	1300	2	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE COLLISION - SAME DIRECTION	SIDESWIPE-SAME DIRECTION	STRAIGHT & GRADE	DAYLIGHT
25552811	KY STATE POLICE, POST 08	MASON	KY0009	AA	38.65624018	-83.89794479	16.125	8/24/2019	1820	2	0	0	O	CLEAR	DRY	TRUE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & LEVEL	DAYLIGHT
25553063	KY STATE POLICE, POST 14	CARTER	KY0009	AA	38.46174456	-83.10259662	13.098	8/16/2019	1432	2	0	0	O	CLEAR	DRY	FALSE	SIDESWIPE COLLISION - OPPOSITE DIRECTION	SIDESWIPE-OPPOSITE DIRECTION	STRAIGHT & LEVEL	DAYLIGHT
25563712	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63854618	-83.80867979	11.109	8/29/2019	0452	2	0	1	C	CLEAR	DRY	FALSE	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	STRAIGHT & GRADE	DARK-HWY LIGHTED/ON
25563716	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.65033332	-83.87659883	14.897	8/23/2019	2330	1	0	0	O	CLEAR	DRY	FALSE	COLLISION IN PARKING LOT	SINGLE VEHICLE	STRAIGHT & LEVEL	DARK-HWY LIGHTED/ON
25570353	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.62488379	-83.78758366	9.609	8/28/2019	1530	2	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	REAR END	STRAIGHT & LEVEL	DAYLIGHT
25584976	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.5943971	-83.71572212	4.964	8/31/2019	1630	1	0	0	O	CLEAR	DRY	FALSE	OCCUPANT FELL FROM MOVING VEHICLE	SINGLE VEHICLE	CURVE & LEVEL	DAYLIGHT
25586948	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.57497189	-83.27944668	8.175	8/23/2019	0742	3	0	5	A	RAINING	WET	FALSE	HEAD-ON COLLISION	HEAD ON	CURVE & GRADE	DAYLIGHT
25596606	MAYSVILLE POLICE DEPARTMENT	MASON	KY0009	MARTIN LUTHER KING	38.63841102	-83.80881356	11.113	9/5/2019	0145	1	0	0	O	CLEAR	DRY	FALSE	RAN OFF ROADWAY (1 VEHICLE WITH/EARTH EMBANKMENT/DITCH)	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY LIGHTED/ON
25602017	KY STATE POLICE, POST 06	BRACKEN	KY0009	AA	38.79653914	-84.21682362	18.535	9/2/2019	2103	2	0	3	A	CLEAR	DRY	FALSE	HEAD-ON COLLISION	HEAD ON	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
25612943	MASON COUNTY SHERIFF	MASON	KY0009	AA	38.56735869	-83.64115567	0.38	9/6/2019	0137	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH FIXED OBJECT NON - INTERSECTION - FIRST EVENT COLLISION 09 - 32 EXCLUDING 16	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
25628236	GREENUP COUNTY SHERIFF DEPT.	GREENUP	KY0010	AA	38.64608785	-82.87810611	11.554	9/11/2019	0641	2	0	1	C	CLEAR	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	STRAIGHT & LEVEL	DAWN
25628660	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.58799186	-83.48426015	21.687	7/13/2019	2255	2	0	3	B	CLEAR	DRY	FALSE	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	CURVE & GRADE	DARK-HWY NOT LIGHTED
25629233	LEWIS COUNTY SHERIFF DEPT.	LEWIS	KY0009	AA	38.55424254	-83.58480608	28.38	6/26/2019	2224	2	0	0	O	CLEAR	DRY	FALSE	OTHER ROADWAY OR MID-BLOCK COLLISION	OPPOSING LEFT TURN	STRAIGHT & LEVEL	DARK-HWY NOT LIGHTED
25646531	KY STATE POLICE, POST 06	BRACKEN	KY0009	AA	38.71846034	-83.9648364	2.557	9/11/2019	2038	1	0	0	O	CLEAR	DRY	FALSE	COLLISION WITH ANIMAL NON INTERSECTION	SINGLE VEHICLE	STRAIGHT & GRADE	DARK-HWY NOT LIGHTED
25646541	KY STATE POLICE, POST 06	BRACKEN	KY0009	AA	38.78746933	-84.21109235	17.878	9/12/2019	1907	2	0	0	O	CLEAR	DRY	FALSE	ANGLE COLLISION - OTHER	ANGLE	CURVE & GRADE	DAYLIGHT
25654510	MAYSVILLE POLICE DEPARTMENT	MASON		KENTON STATION	38.6372812	-83.80436066

APPENDIX C:

Environmental Overview Maps

APPENDIX C:

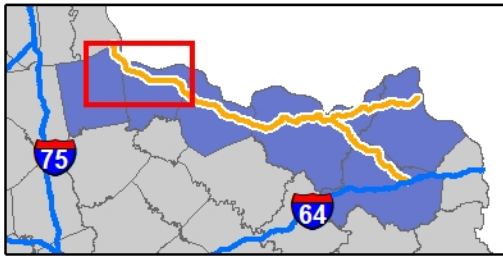
Environmental Overview Maps

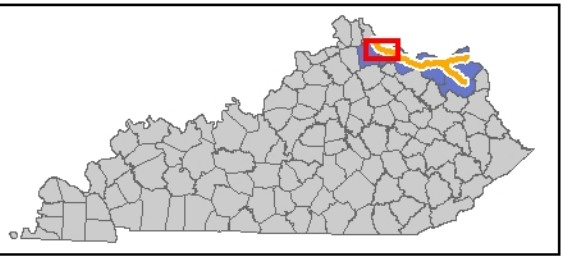


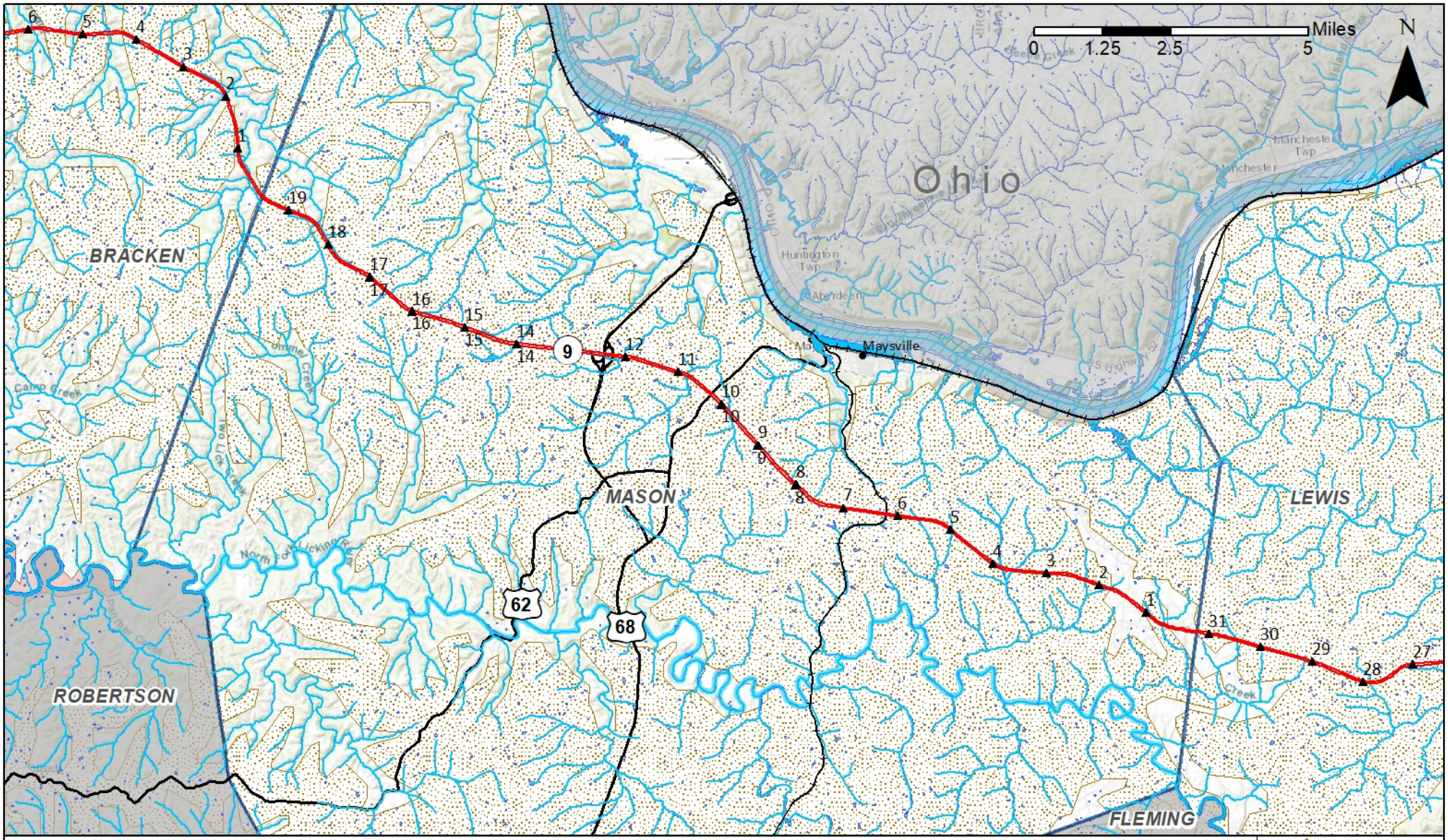
AA Highway Improvements Study
Natural Environmental Resources

KY 9 - Pendleton County and Bracken County

- Streams
- Rivers
- Floodway
- 500 Year Flood Zone
- 100 Year Flood Zone
- Wetlands
- Moderate Karst
- Major Karst
- Milepoints
- 100ft Study Area Buffer
- Study Area County Line
- Interstate
- US Highways



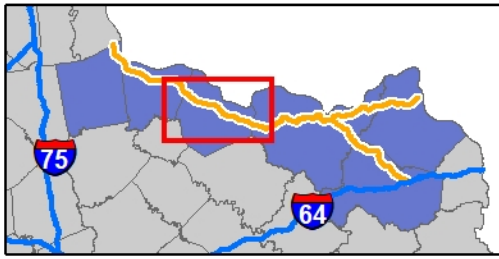


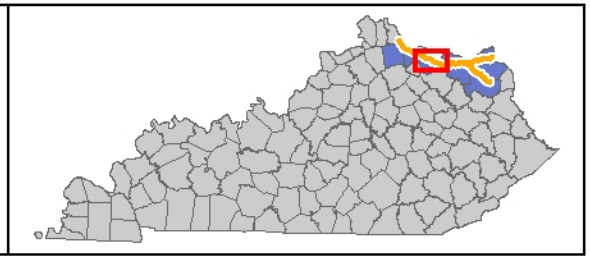


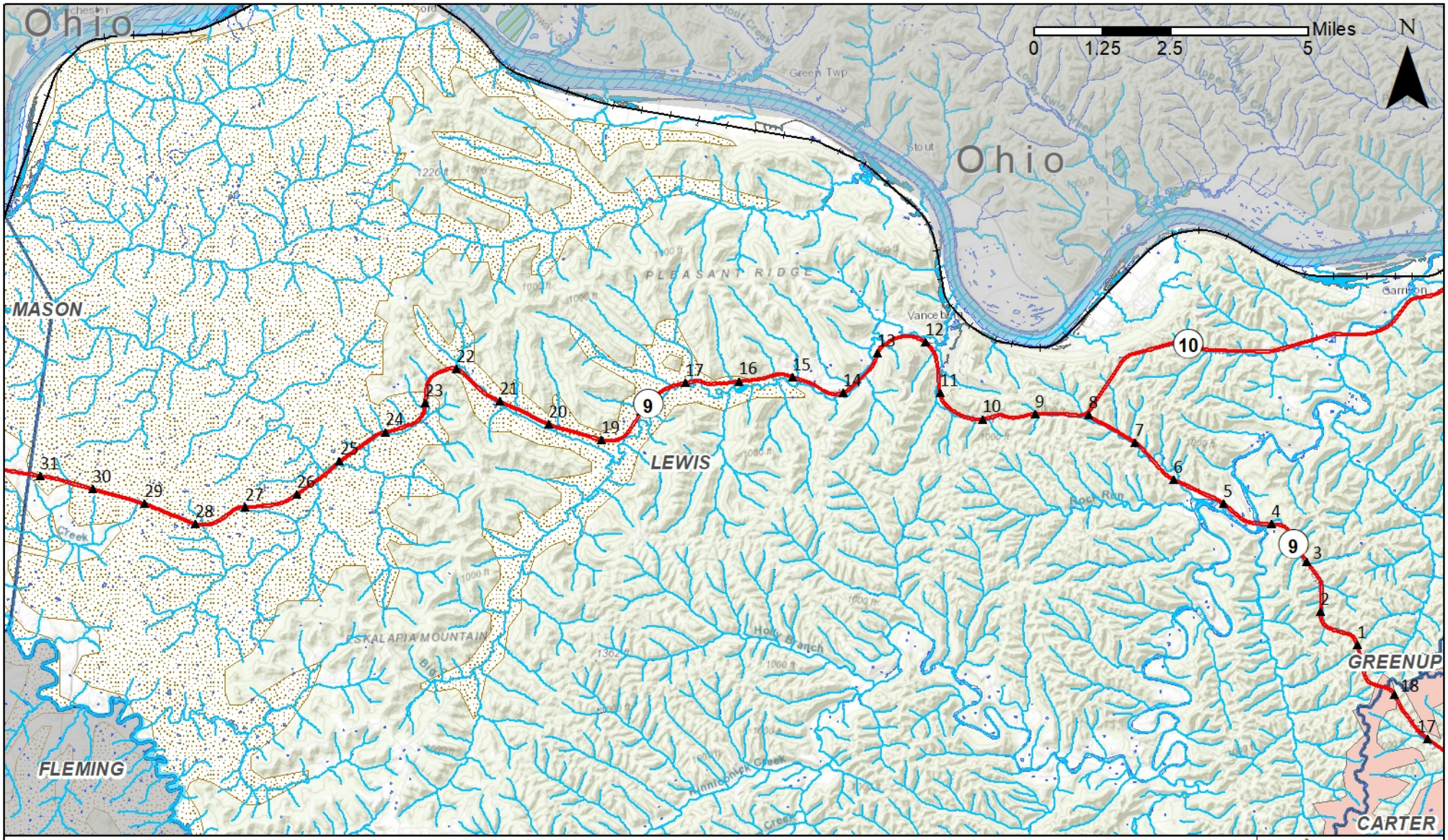
AA Highway Improvements Study
Natural Environmental Resources

KY 9 - Mason County

- Streams
- Rivers
- Floodway
- 500 Year Flood Zone
- 100 Year Flood Zone
- Wetlands
- Moderate Karst
- Major Karst
- Milepoints
- 100ft Study Area Buffer
- Study Area County Line
- Interstate
- US Highways



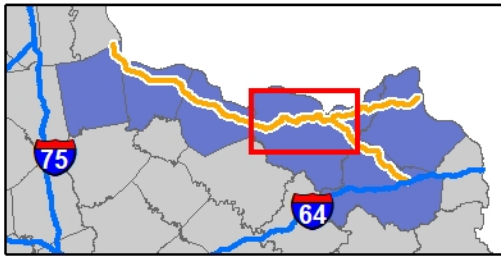


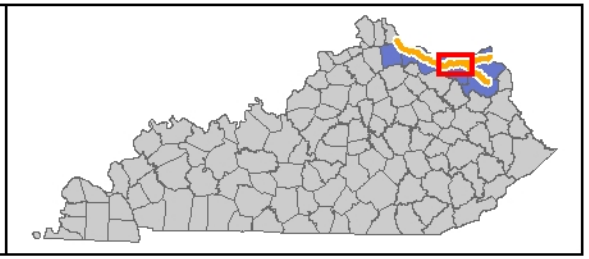


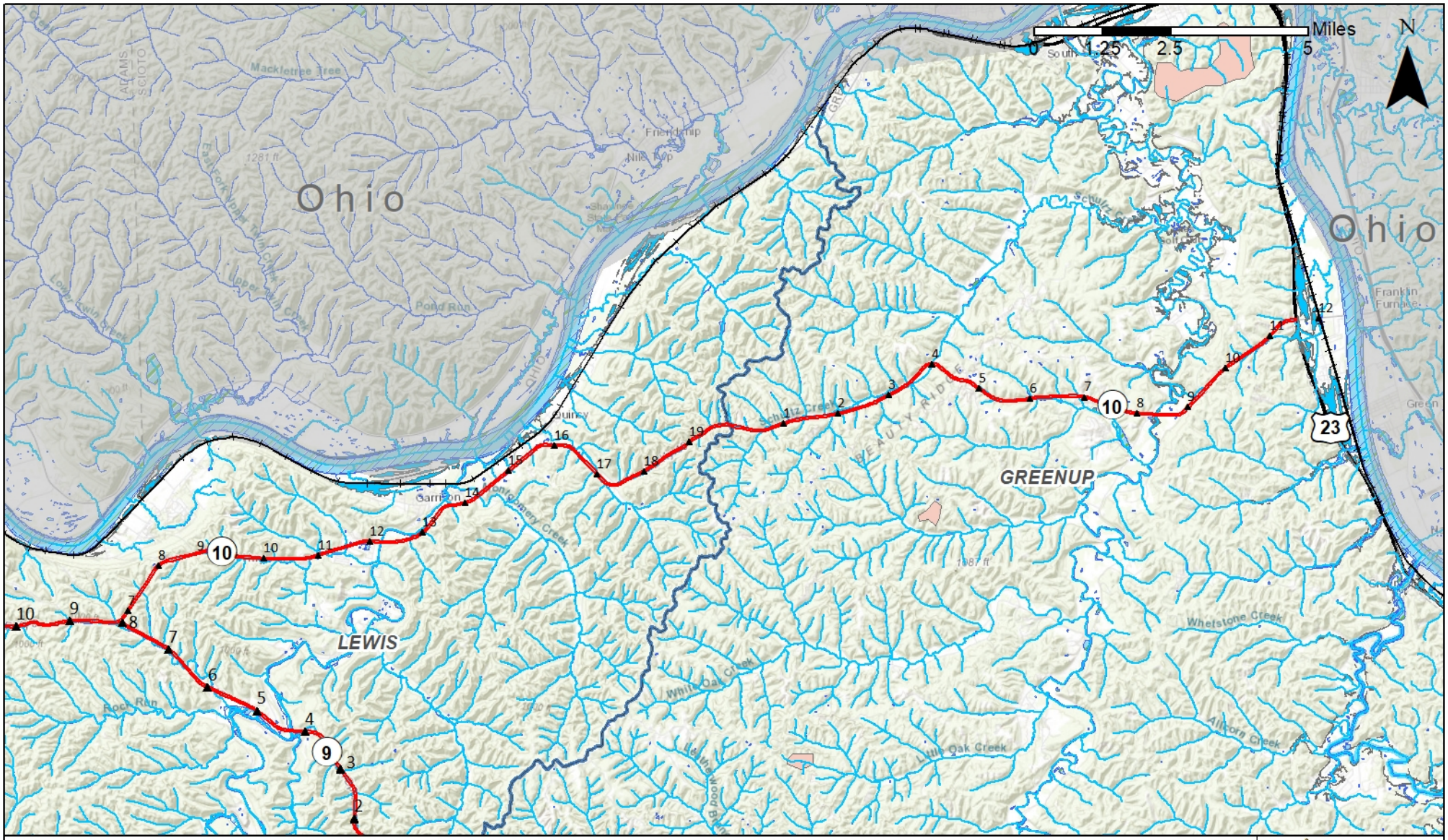
AA Highway Improvements Study
Natural Environmental Resources

KY 9 - Lewis County

- Streams
- Rivers
- Floodway
- 500 Year Flood Zone
- 100 Year Flood Zone
- Wetlands
- Moderate Karst
- Major Karst
- Milepoints
- 100ft Study Area Buffer
- Study Area County Line
- Interstate
- US Highways



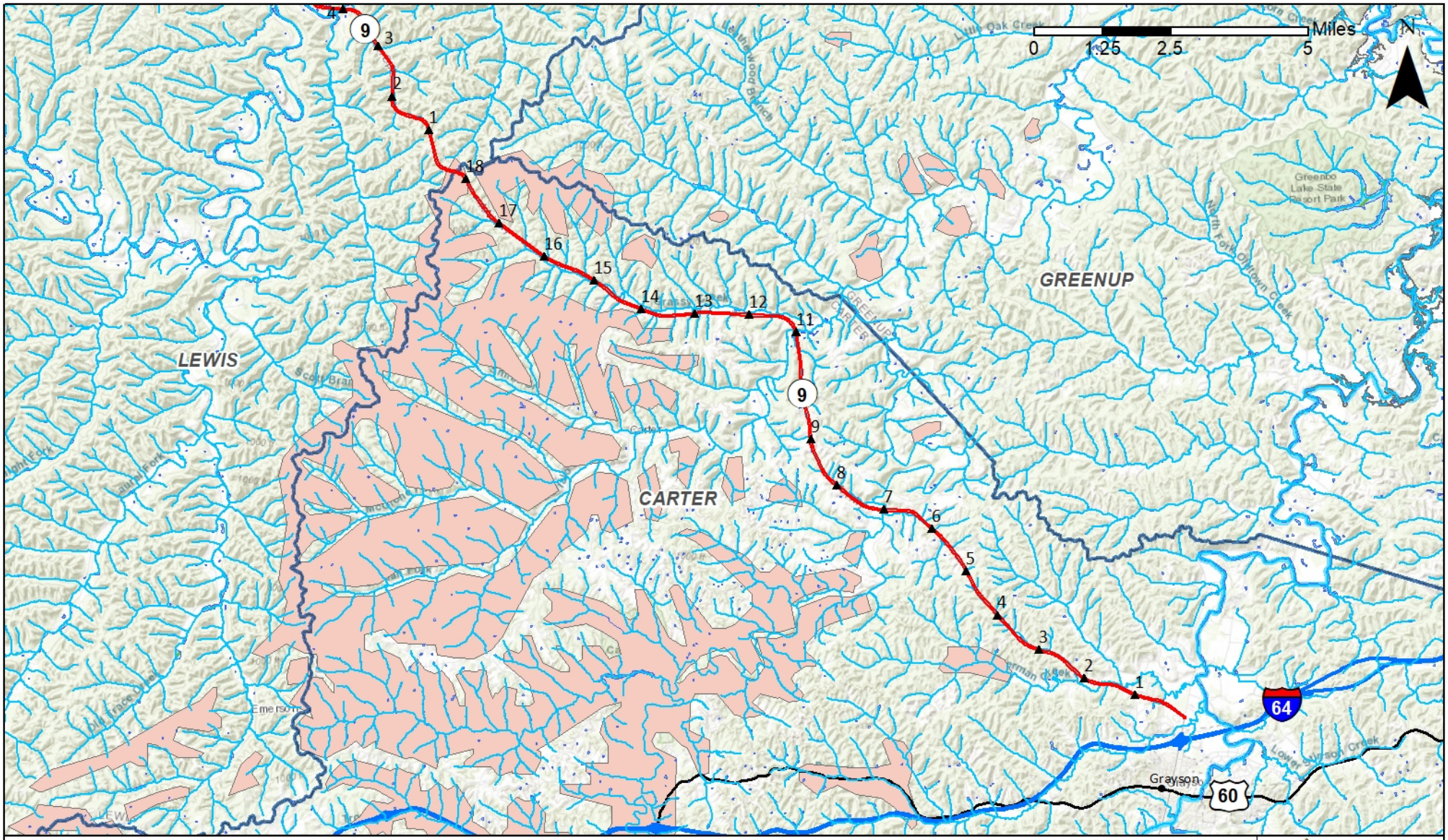




AA Highway Improvements Study
Natural Environmental Resources

KY 10 - Lewis County and Greenup County

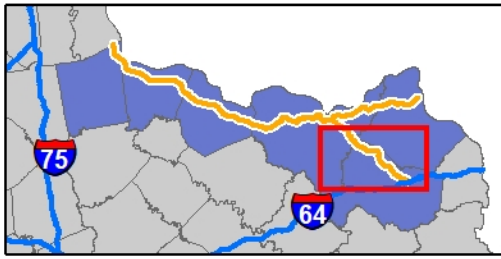
- Streams
- Rivers
- Floodway
- 500 Year Flood Zone
- 100 Year Flood Zone
- Wetlands
- Moderate Karst
- Major Karst
- Milepoints
- 100ft Study Area Buffer
- Study Area County Line
- Interstate
- US Highways

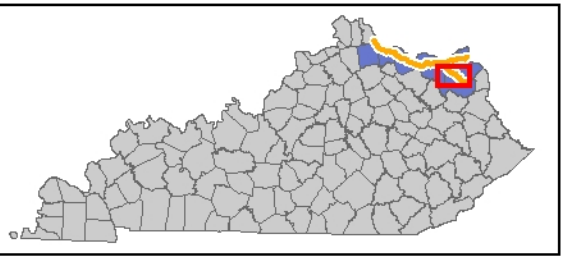


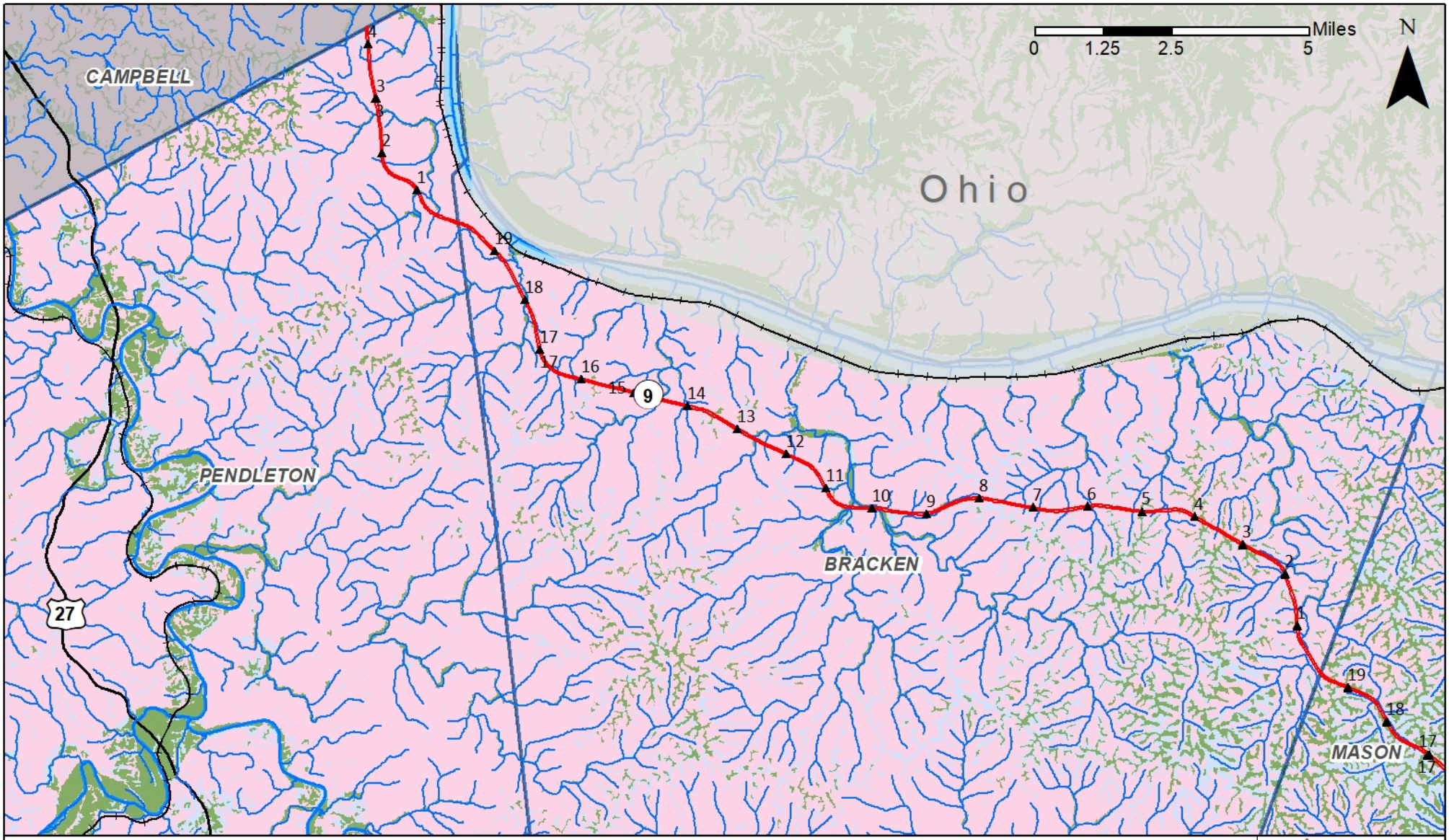
AA Highway Improvements Study
Natural Environmental Resources

KY 9 - Carter County

- Streams
- Rivers
- Floodway
- 500 Year Flood Zone
- 100 Year Flood Zone
- Wetlands
- Moderate Karst
- Major Karst
- Milepoints
- 100ft Study Area Buffer
- Study Area County Line
- Interstate
- US Highways







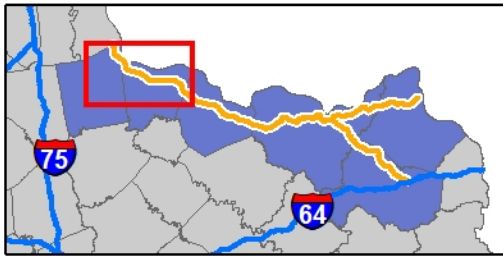
AA Highway Improvements Study
NRCS Farmland Clasification

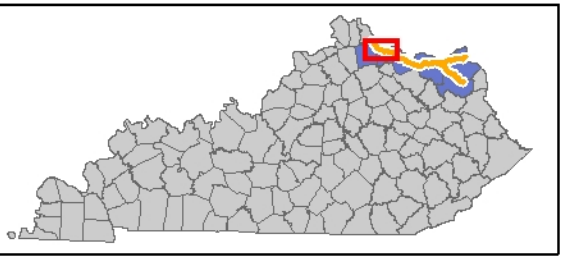
KY 9 - Pendleton County and Bracken County

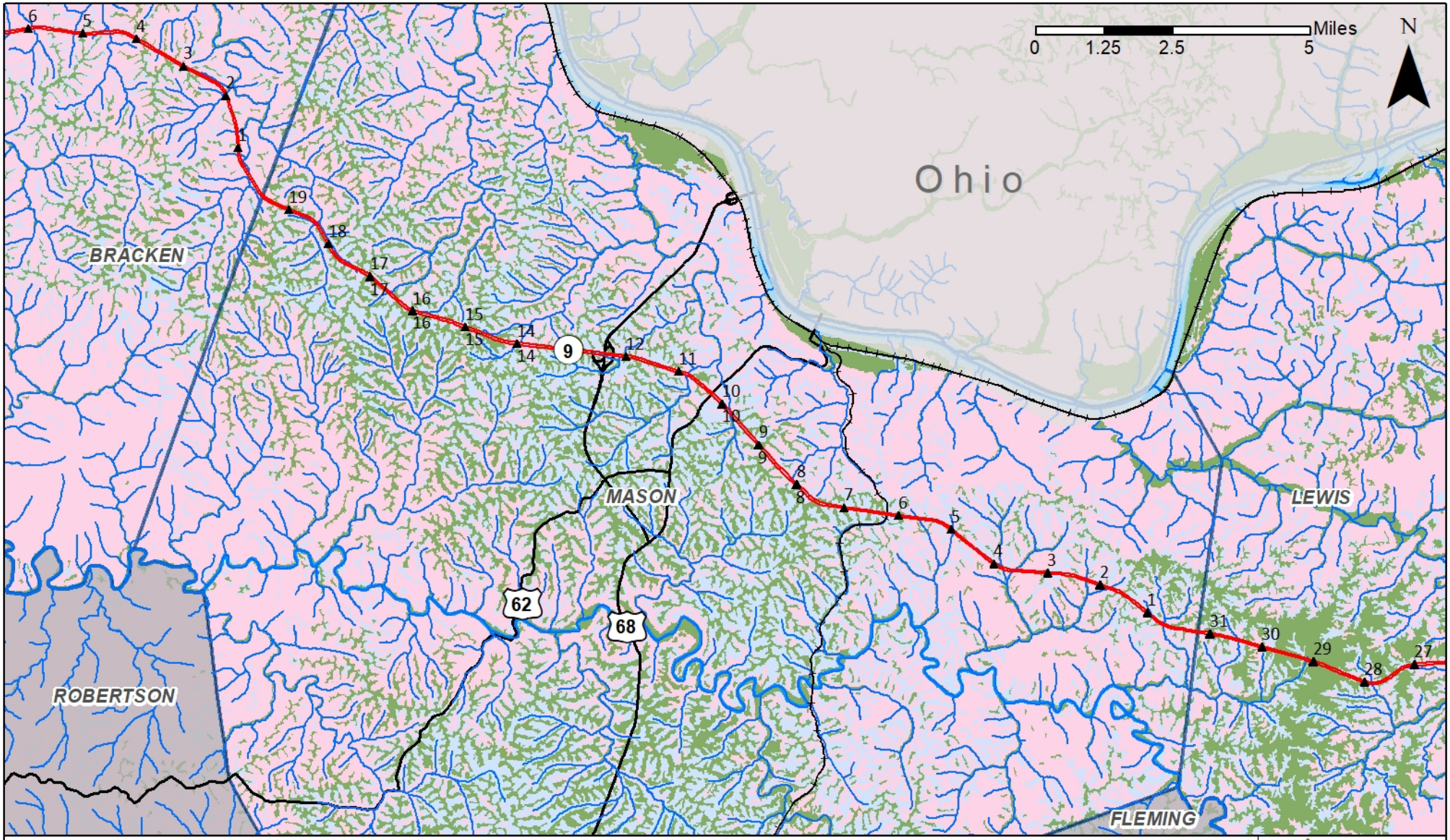
- 100ft Study Area Buffer
- Study Area County Line
- Milepoints
- US Highways
- Interstate

Farmland Classification

- Prime Farmland
- Farmland of Local Importance
- Farmland of Statewide Importance
- Farmland of Unique Importance
- Not Prime Farmland







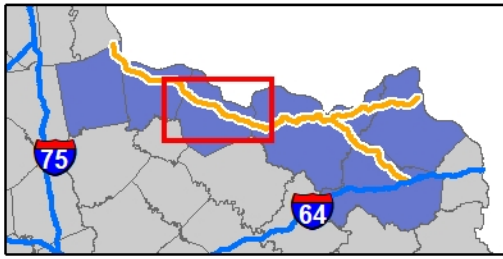
AA Highway Improvements Study
NRCS Farmland Clasification

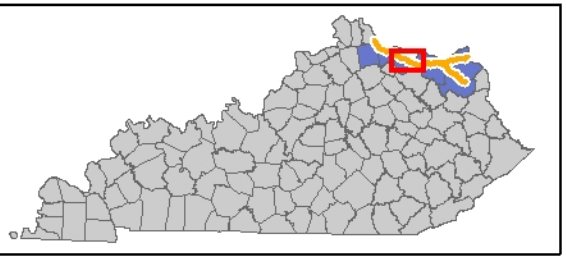
KY 9 - Mason County

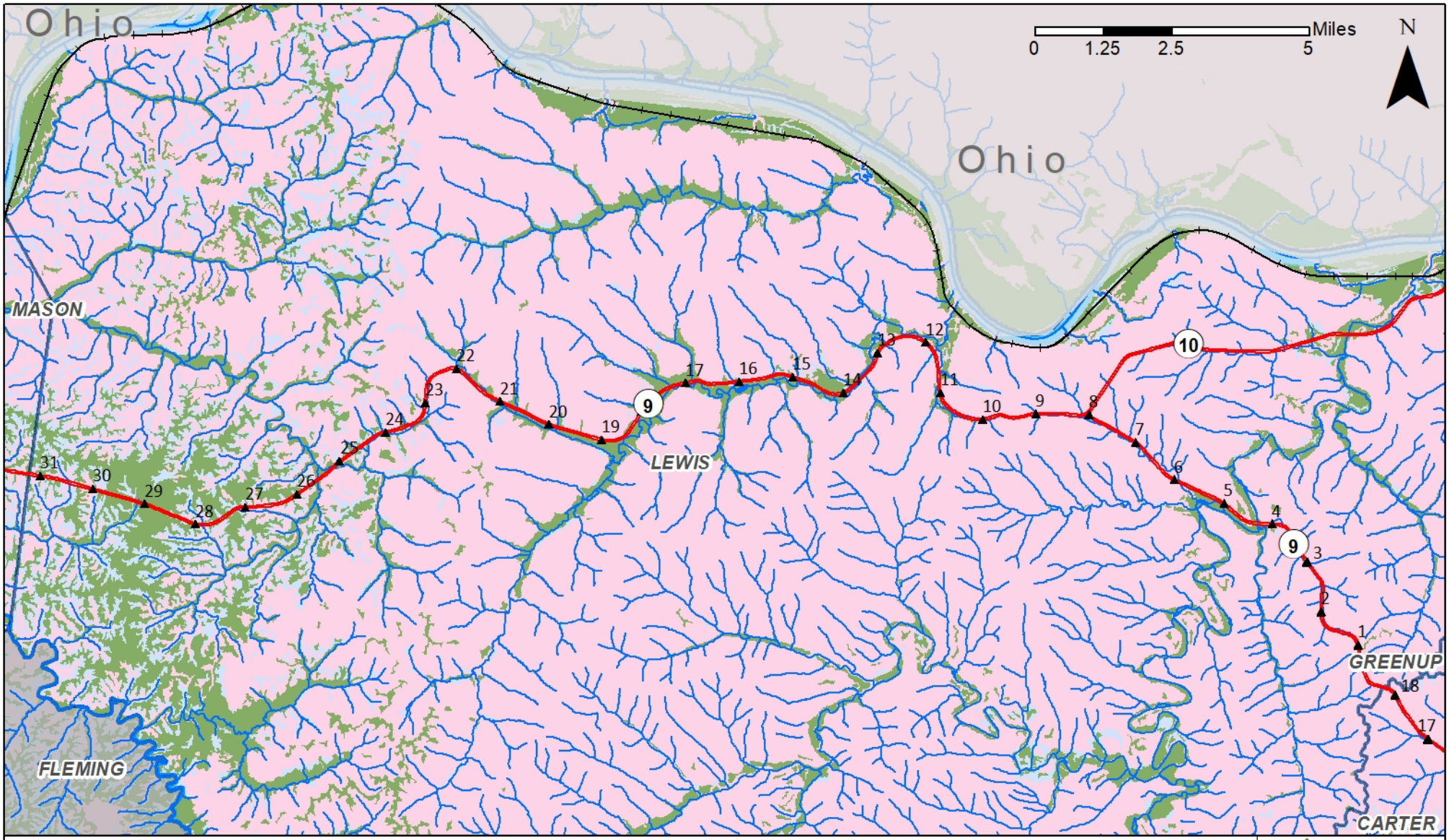
- 100ft Study Area Buffer
- Study Area County Line
- Milepoints
- US Highways
- Interstate

Farmland Classification

- Prime Farmland
- Farmland of Local Importance
- Farmland of Statewide Importance
- Farmland of Unique Importance
- Not Prime Farmland







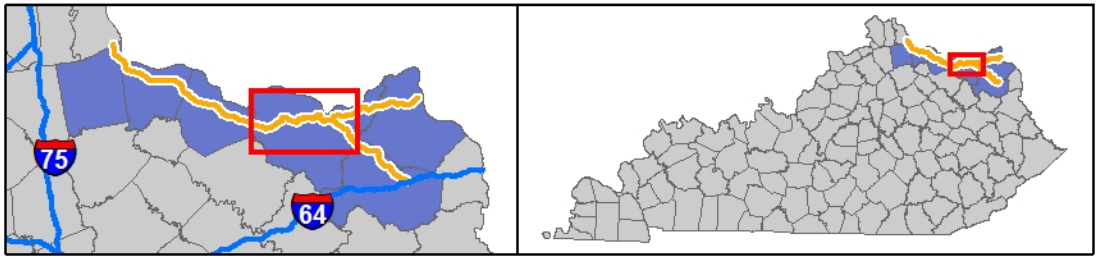
AA Highway Improvements Study
NRCS Farmland Clasification

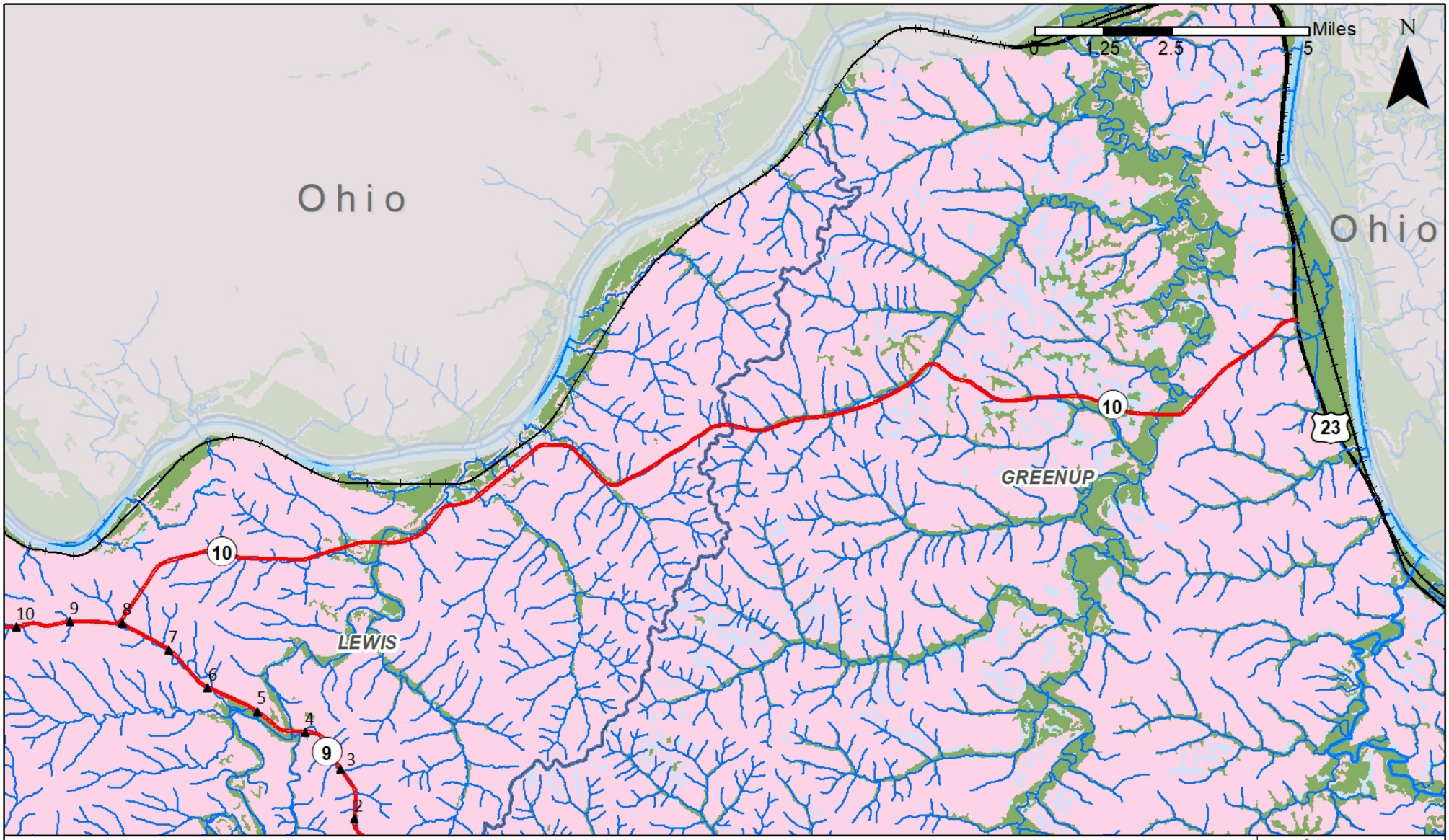
KY 9 - Lewis County

- 100ft Study Area Buffer
- Study Area County Line
- Milepoints
- US Highways
- Interstate

Farmland Classification

- Prime Farmland
- Farmland of Local Importance
- Farmland of Statewide Importance
- Farmland of Unique Importance
- Not Prime Farmland





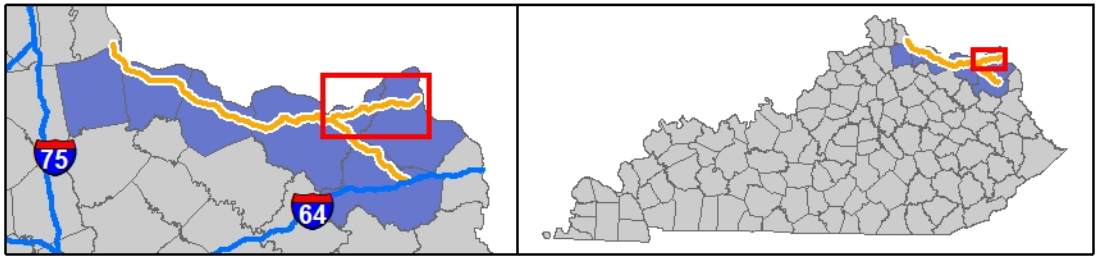
AA Highway Improvements Study
NRCS Farmland Clasification

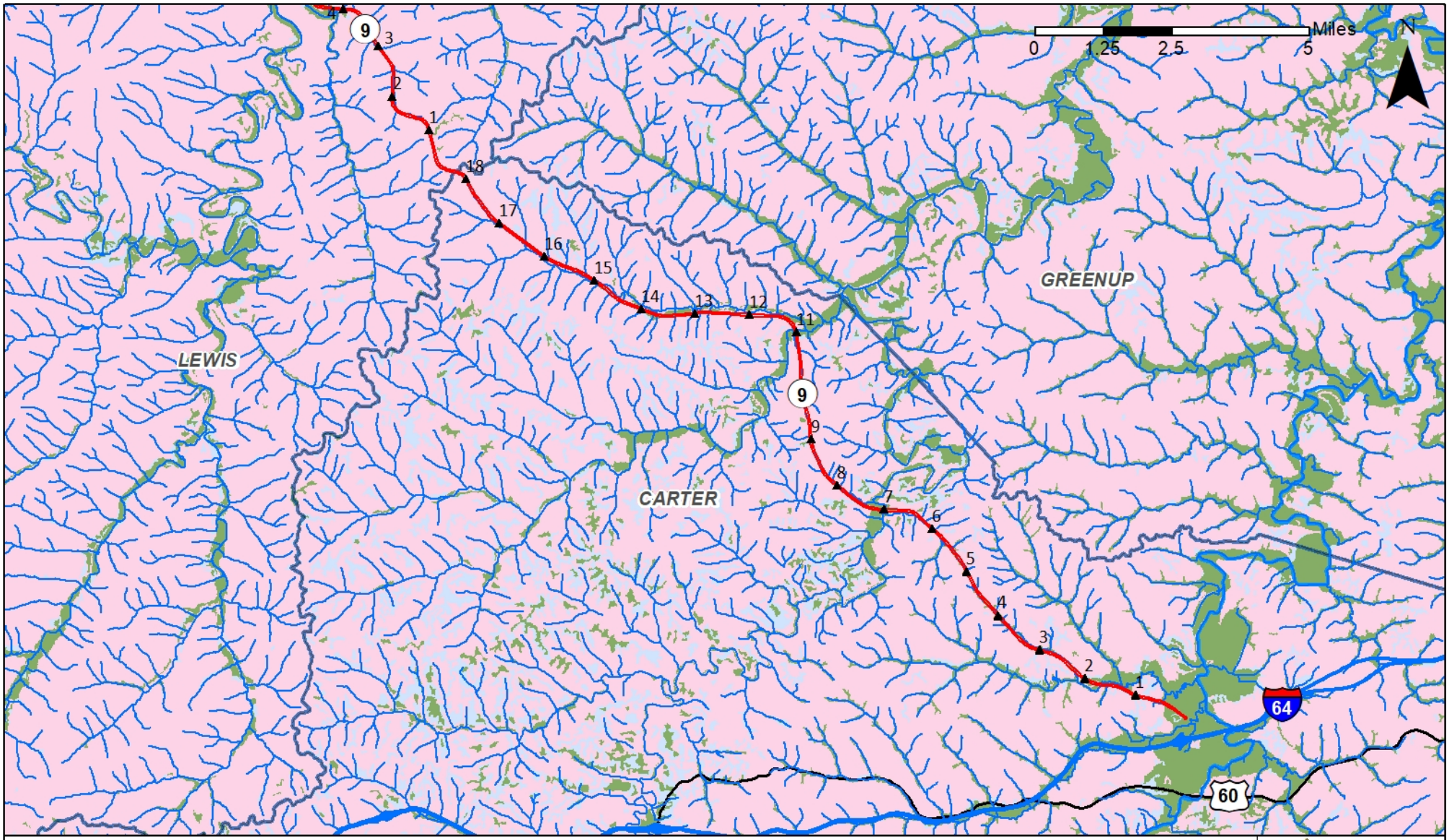
KY 10 - Lewis County and Greenup County

- 100ft Study Area Buffer
- Study Area County Line
- Milepoints
- US Highways
- Interstate

Farmland Classification

- Prime Farmland
- Farmland of Local Importance
- Farmland of Statewide Importance
- Farmland of Unique Importance
- Not Prime Farmland





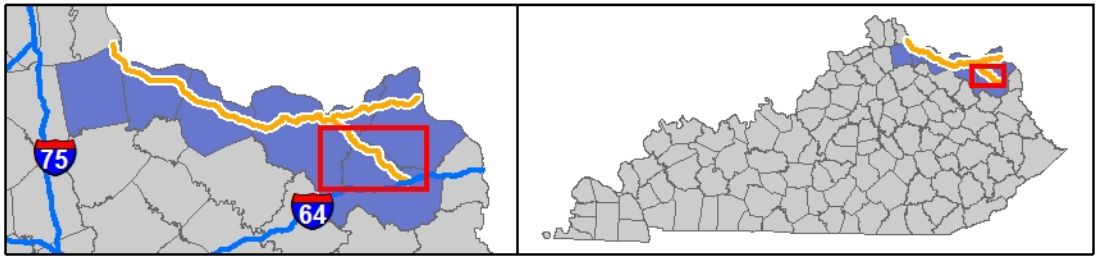
AA Highway Improvements Study
NRCS Farmland Clasification

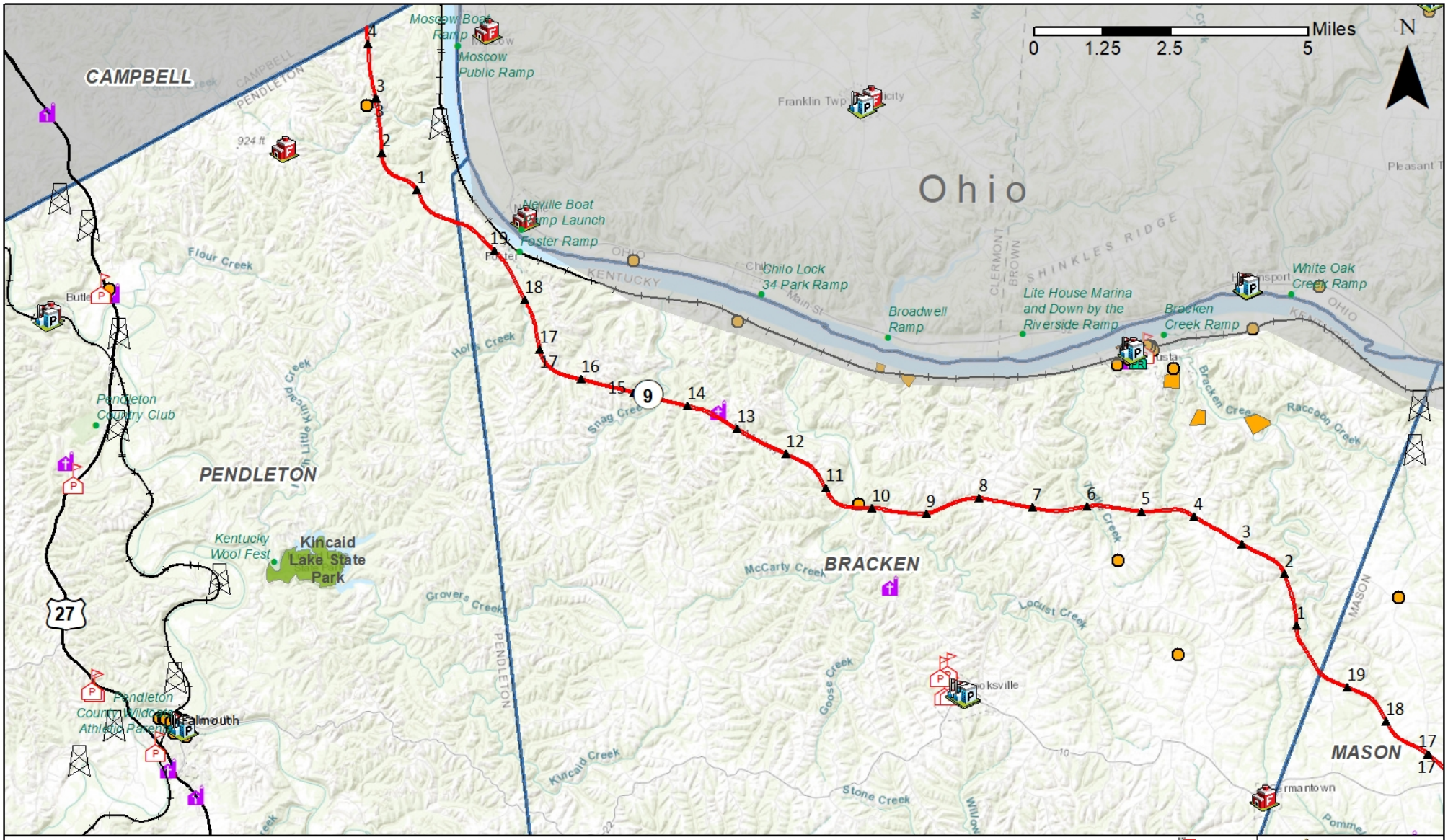
KY 9 - Carter County

- 100ft Study Area Buffer
- Study Area County Line
- Milepoints
- US Highways
- Interstate

Farmland Classification

- Prime Farmland
- Farmland of Local Importance
- Farmland of Statewide Importance
- Farmland of Unique Importance
- Not Prime Farmland

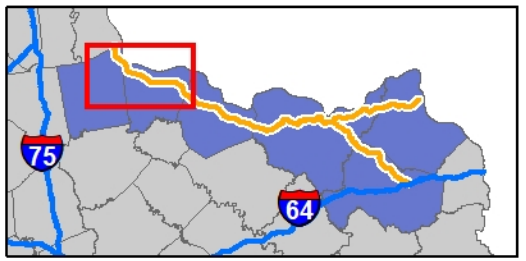


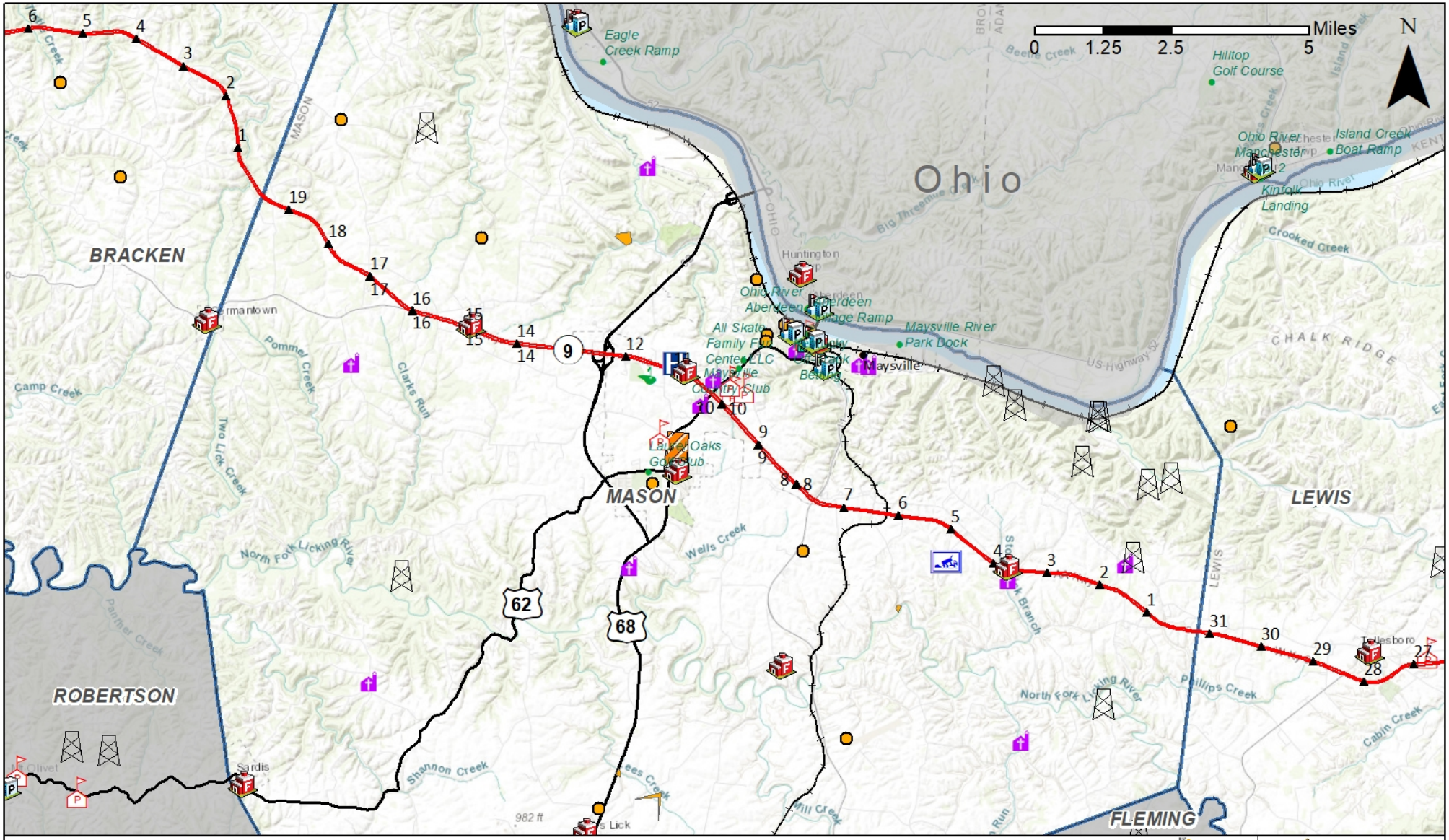


AA Highway Improvements Study
Human Environmental Resources

KY 9 - Pendleton County and Bracken County

- Local Law Enforcement
- Golf Course
- Recreational Areas
- Fire Stations
- Private Schools
- Solid Waste Landfill
- Hospitals
- Oil/Gas Well
- Oil/Gas Well - Abandoned
- 100ft Study Area Buffer
- National Park or Forest
- State Park or Forest
- County Park
- Regional Park
- Local Park
- NHRP Historic Points
- NHRP Historic Polygons
- NRHP Historic District
- Interstate
- US Highways
- Study Area County Line
- Milepoints





AA Highway Improvements Study
Human Environmental Resources

KY 9 - Mason County

- Local Law Enforcement
- Golf Course
- Recreational Areas
- Fire Stations
- Private Schools
- Solid Waste Landfill
- Hospitals
- Oil/Gas Well
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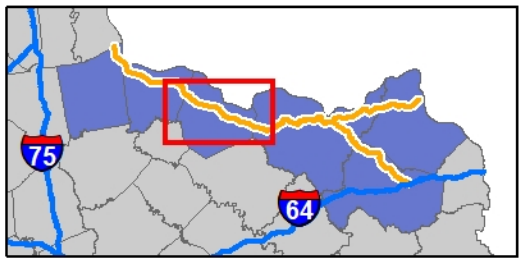
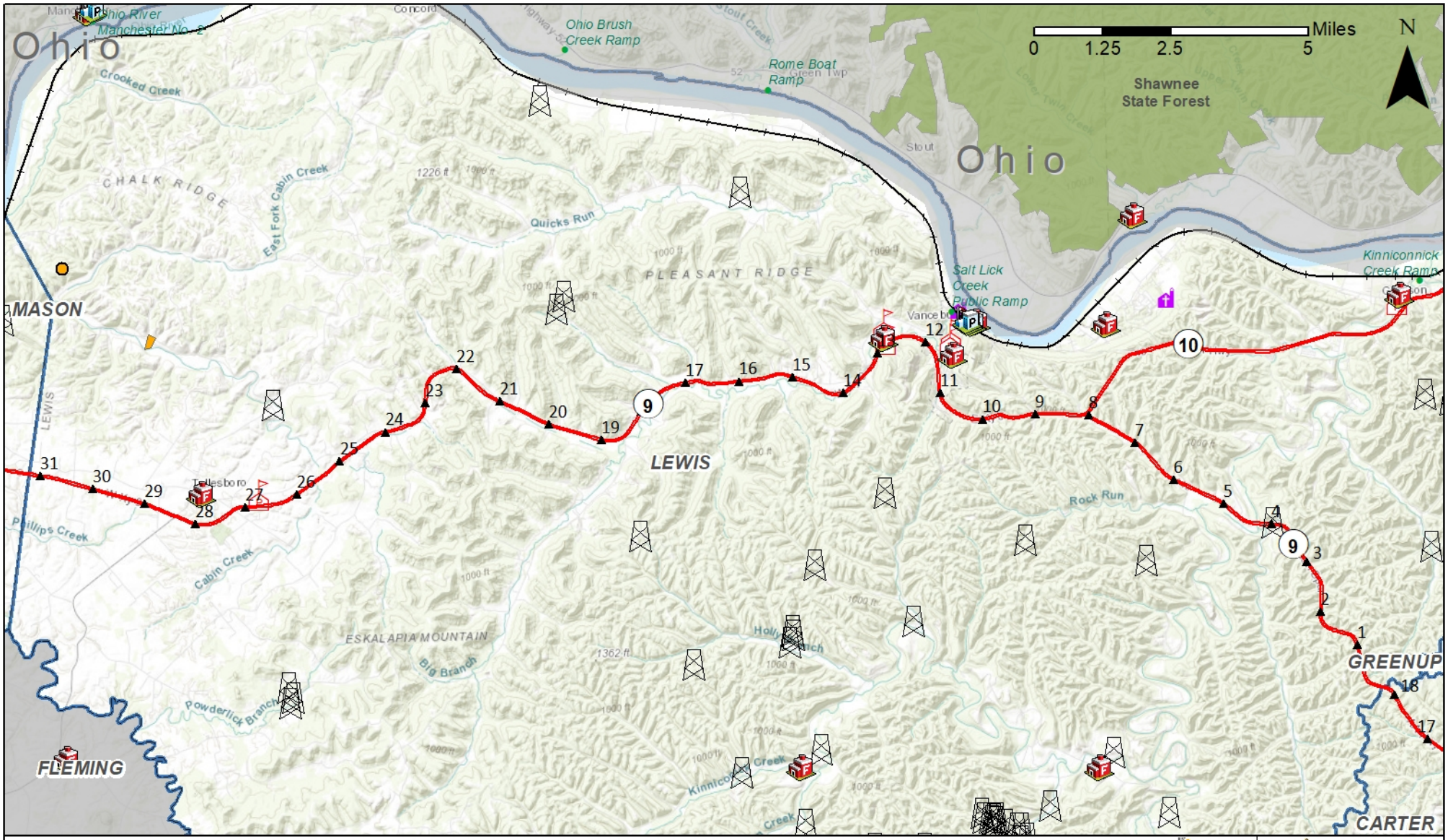
- NHRP Historic Points
- NHRP Historic Polygons
- NRHP Historic District
- Interstate
- US Highways
- Study Area County Line
- Milepoints





AA Highway Improvements Study
Human Environmental Resources

KY 9 - Lewis County

- Local Law Enforcement
- Golf Course
- Recreational Areas
- Fire Stations
- Private Schools
- Solid Waste Landfill
- Hospitals
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- 100ft Study Area Buffer
- National Park or Forest
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- Study Area County Line
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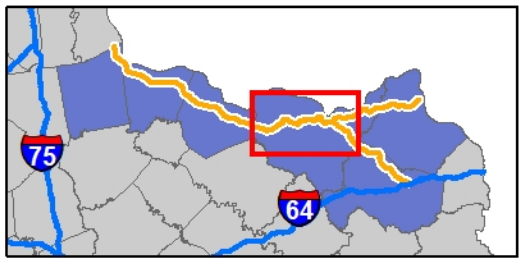

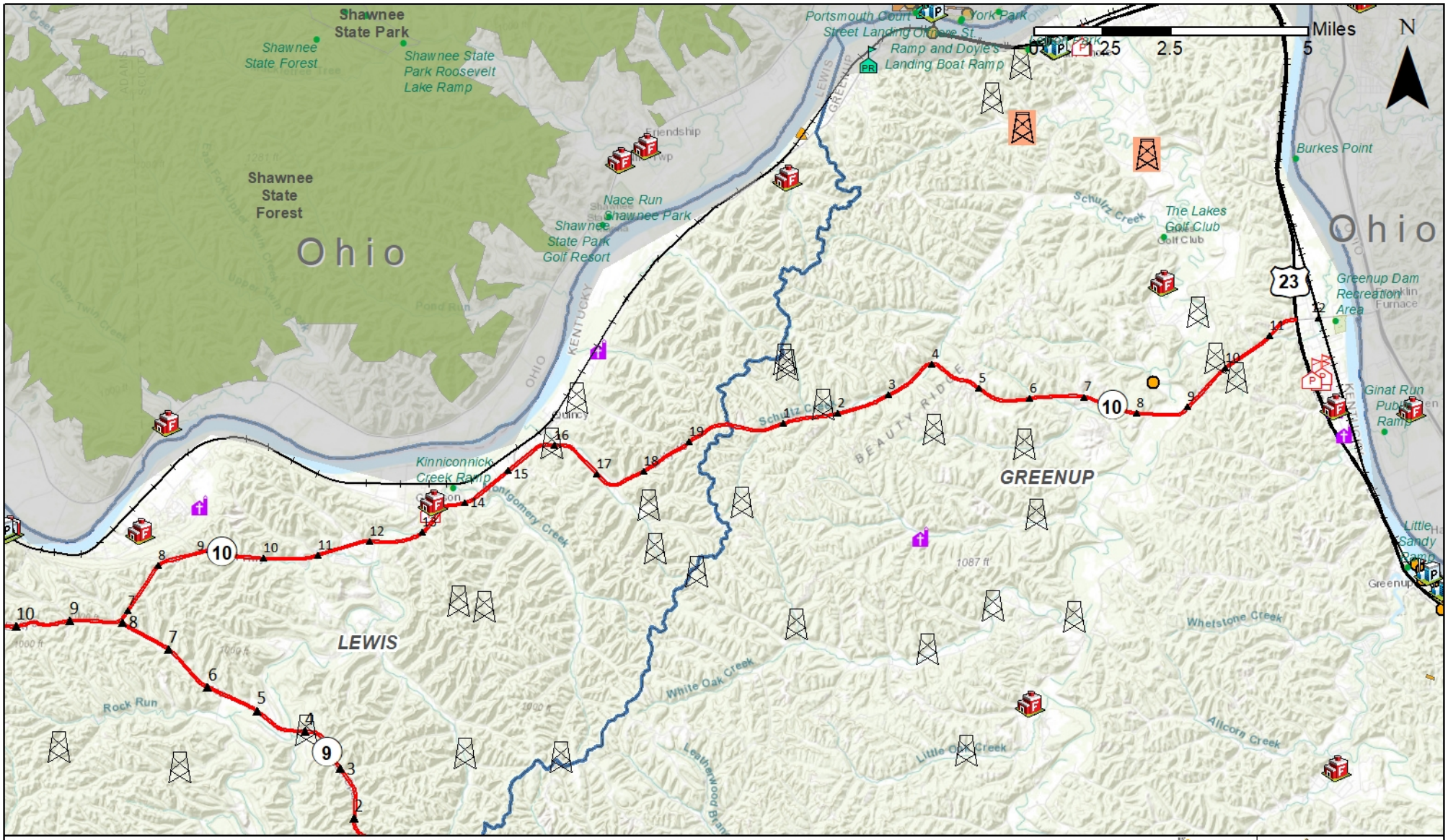

AA Highway Improvements Study
Human Environmental Resources

KY 10 - Lewis County and Greenup County

- Local Law Enforcement
- Golf Course
- Recreational Areas
- Fire Stations
- Private Schools
- Solid Waste Landfill
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- Oil/Gas Well
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- National Park or Forest
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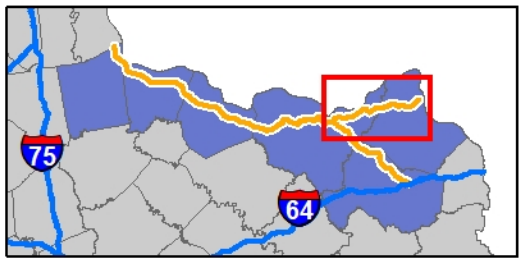
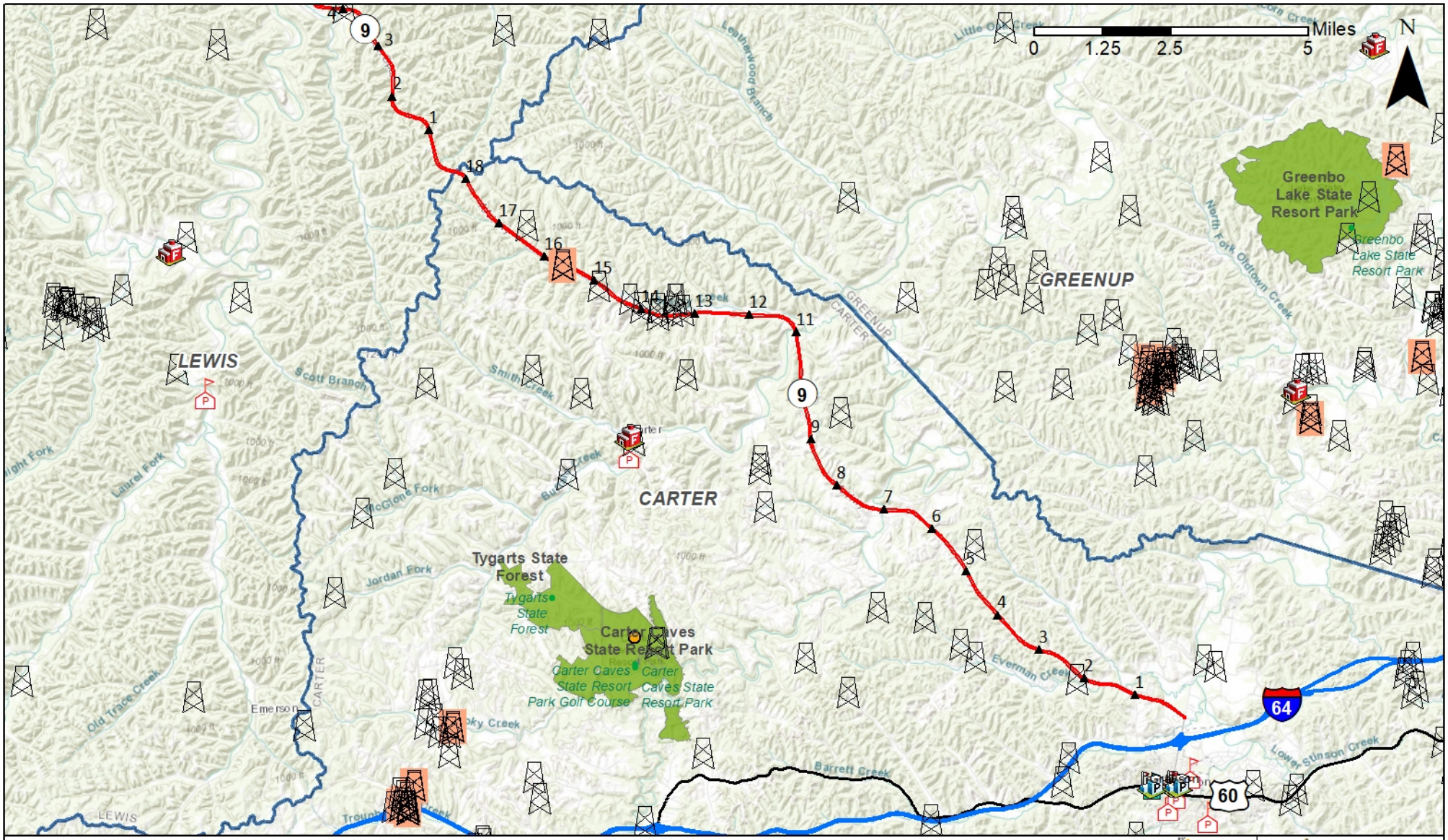
- 100ft Study Area Buffer
- NHRP Historic Points
- NHRP Historic Polygons
- NRHP Historic District
- Interstate
- US Highways
- Study Area County Line
- Milepoints





AA Highway Improvements Study
Human Environmental Resources

KY 9 - Carter County

- Local Law Enforcement
- Golf Course
- Recreational Areas
- Fire Stations
- Private Schools
- Solid Waste Landfill
- Hospitals
- Oil/Gas Well
- Oil/Gas Well - Abandoned
- 100ft Study Area Buffer
- National Park or Forest
- State Park or Forest
- County Park
- Regional Park
- Local Park
- NHRP Historic Points
- NHRP Historic Polygons
- NRHP Historic District
- Interstate
- US Highways
- Study Area County Line
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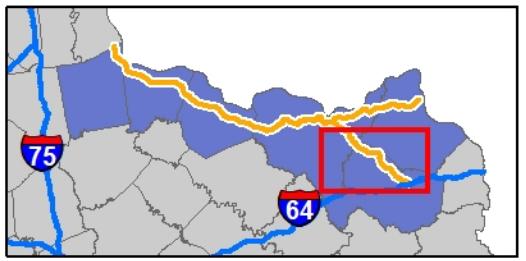


APPENDIX D:

Socioeconomic Study

AA Highway - KY 9/KY 10 Study

Socioeconomic Study

January 2020

Prepared for
Kentucky Transportation Cabinet (KYTC) – Division of Planning

Prepared by
Buffalo Trace Area Development District

This document was prepared in cooperation with the Kentucky Transportation Cabinet.

Contents

Introduction 3
What is Socioeconomic Study? 4
Methodology 5
Project Area – AA Highway 6
Study Findings 13
Population by Persons of Racial Minority Origin 13
Population by Persons Age 65 Years and Older 9
Population by Persons below Poverty Level 35
Population by Disability Status 46
Population by Persons with Limited English Proficiency 57
Conclusion 69
Appendix: Methodology from KYTC 18

Introduction

This report presents an overview of the findings for selected socioeconomic characteristics of the AA Highway. The purpose of this study is to improve safety, traffic operations, and the existing accessibility from Campbell County to Carter County KY-9 and from Lewis County to Greenup County KY-10.

The information in this report outlines 2013-2017 American Community Survey (ACS) statistics in and near the project area using tables, charts, and maps. The data presented in this document is intended to highlight areas of concern that will require additional analysis should any project be advanced to future phases. Statistics are provided for minority, elderly, poverty status, limited English proficiency (LEP), and disabled populations for the nation, state, region, county and block groups located within the project area.

This information is intended to aid the Kentucky Transportation Cabinet (KYTC) in making informed and prudent transportation decisions in the project area, especially with regard to the requirements of *Executive Order 12898: Federal Actions to Address Environmental Justice in Minority Populations and Poverty status, Populations* (signed February 11, 1994). Executive Order 12898 states:

> "…each Federal agency shall make achieving environmental justice part of its mission by identifying and addressing, as appropriate, disproportionately high and adverse human health or environmental effects of its policies, and activities on minority populations and poverty status, populations…"

The project study area covers 7 counties and multiple block groups. Kentucky Route 9 is 116 miles long and starts in Campbell County crossing through Pendleton, Bracken, Mason, Lewis and ending in Carter County. Kentucky 10 splits off of KY 9 in Lewis County and travels through Greenup County ending at the Kentucky/Ohio state line totaling a little over 32 miles.

What is Socioeconomic Study?

The U.S. Department of Transportation (DOT) outlines three primary Environmental Justice Concepts as:

1. To avoid, minimize, or mitigate disproportionately high and adverse human health or environmental effects, including social and economic effects, on minority populations and poverty status, populations.
2. To ensure the full and fair participation by all potentially affected communities in the transportation decision-making process.
3. To prevent the denial of, reduction in, or significant delay in the receipt of benefits by minority population and poverty status, populations.

The U.S. DOT order defines minority as:

1. Black (a person having origins in any of the black racial groups of Africa);
2. Hispanic (a person of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race);
3. Asian American (a person having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent, or the Pacific Islands); or
4. American Indian and Alaskan Native (a person having origins in any of the original people of North America and who maintains cultural identification through tribal affiliation or community recognition).

A minority population is "any readily identifiable groups of minority persons who live in geographic proximity, and if circumstances warrant geographically dispersed/transient persons…"

Low-income, is defined in U.S. DOT Order (5610.2) as "a person whose median household income is at or below the Department of Health and Human Services (HHS) poverty guidelines." A low-income, population is "any readily identifiable group of low-income, persons who live in geographic proximity, and, if circumstances warrant, geographically dispersed/transient persons…"

A disproportionately high and adverse effect on a minority or low-income population means an adverse effect that:

1. Is predominately borne by a minority population and/or low-income population or
2. Will be suffered by the minority population and/or low-income population and is appreciably more severe or greater in magnitude than the adverse effect that will be suffered by the non-minority population and/or non-low-income population.

Elderly and disabled populations (also used in this analysis) are not specifically recognized under the definition of an Environmental Justice community. However, the U.S. DOT specifically encourages the early examination of potential population of the elderly, children, disabled, and other populations protected by the Title VI of the Civil Rights Act of 1964 and related nondiscrimination statuses.

Limited English proficiency (LEP) is a term used in the United States that refers to a person who is not fluent in the English language, often because it is not their native language. Both LEP and English-language learner (ELL) are terms used by the Office for Civil Rights, a sub-agency of the U.S. Department of Education.

Methodology

The data was collected using the method outlined by the KYTC document "Methodology for Assessing Potential Environmental Justice Concerns for KYTC Planning Studies". The demographics of the affected area should be defined using U.S. Census Bureau data and the percentages for minorities, poverty status, elderly, LEP, and disabled populations should be compared to the Census tracts and block groups, the county as a whole, the entire state and the United States.

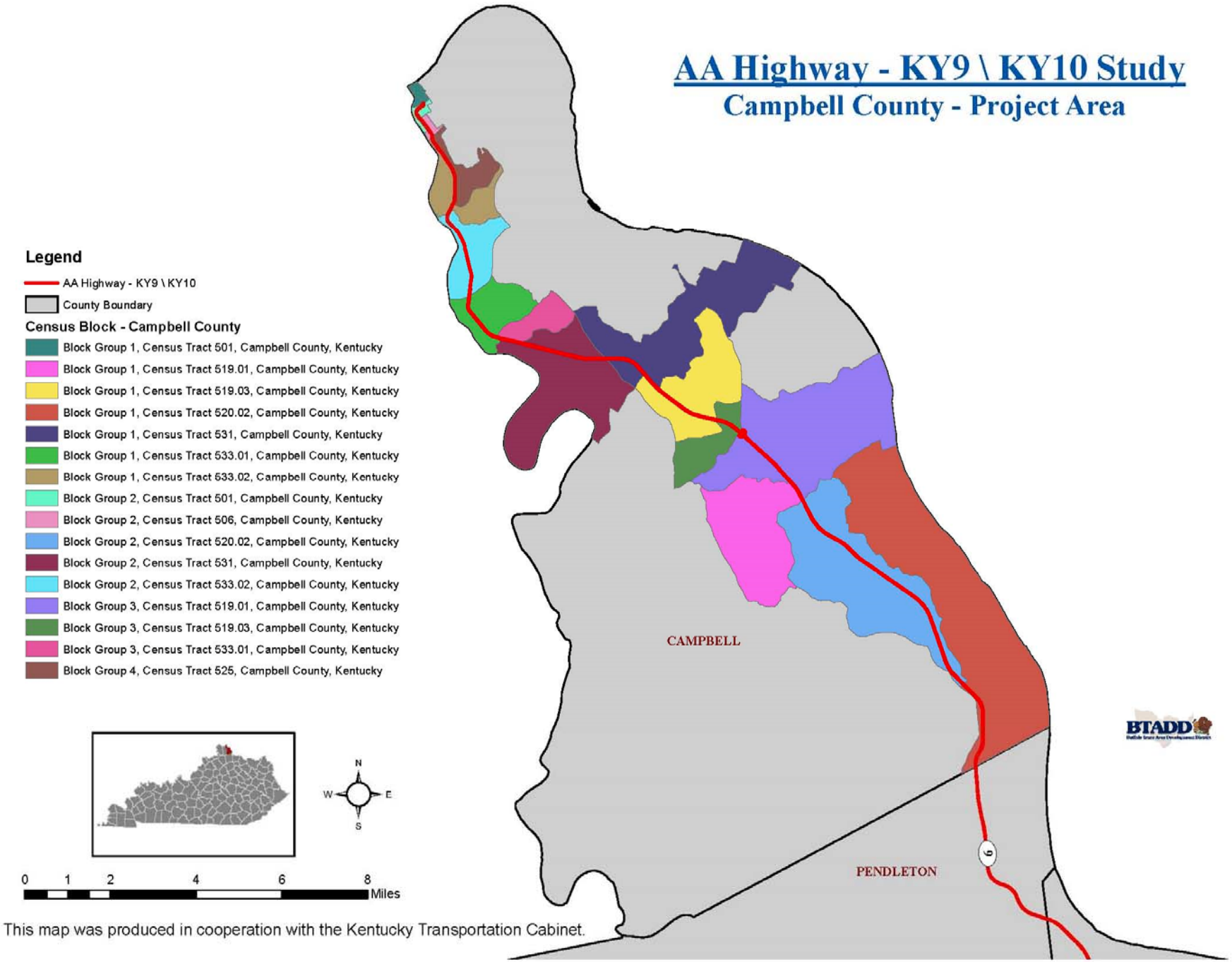
The primary source of data for this report is the 2011-2015 US Census Bureau American Community Survey including tables:

- B01001 - Sex by Age
- B03002 - Hispanic or Latino Origin by Race
- B16004 - Age by Language Spoken at Home by Ability to Speak English for the Population 5 Years and Over
- B17021 - Poverty Status of Individuals in the Past 12 Months by Living Arrangement
- C21007 - Age by Veteran Status by Poverty Status in the Past 12 Months by Disability Status

The data presented in this document is intended to highlight areas of concern that will require additional analysis should any project be advanced to future phases.

The Census tables in this report include the total number and percentages for minorities, elderly, low-income, LEP, and disabled population levels for the census tract block groups, county, region, state, and nation. This report uses the population percentages for the state as the reference threshold for identifying target populations. The state numbers were selected as the reference threshold because the project covers multiple counties and multiple block groups. The state numbers most likely provide a better snapshot of the overall population characteristics in the study area as opposed to the United States or county percentages.

The methodologies used in this planning document are appropriate for identifying areas of concern in small urban areas and potential project corridors. However, during future phases of project development a more detailed and robust analysis would be required for the NEPA documentation when assessing the potential for adverse and disproportionate impacts to poverty status, and minority populations.


AA Highway - KY9 \ KY10 Study
Campbell County - Project Area
Legend
AA Highway - KY9 \ KY10
County Boundary
Census Block - Campbell County
Block Group 1, Census Tract 501, Campbell County, Kentucky
Block Group 1, Census Tract 519.01, Campbell County, Kentucky
Block Group 1, Census Tract 519.03, Campbell County, Kentucky
Block Group 1, Census Tract 520.02, Campbell County, Kentucky
Block Group 1, Census Tract 531, Campbell County, Kentucky
Block Group 1, Census Tract 533.01, Campbell County, Kentucky
Block Group 1, Census Tract 533.02, Campbell County, Kentucky
Block Group 2, Census Tract 501, Campbell County, Kentucky
Block Group 2, Census Tract 506, Campbell County, Kentucky
Block Group 2, Census Tract 520.02, Campbell County, Kentucky
Block Group 2, Census Tract 531, Campbell County, Kentucky
Block Group 2, Census Tract 533.02, Campbell County, Kentucky
Block Group 3, Census Tract 519.01, Campbell County, Kentucky
Block Group 3, Census Tract 519.03, Campbell County, Kentucky
Block Group 3, Census Tract 533.01, Campbell County, Kentucky
Block Group 4, Census Tract 525, Campbell County, Kentucky
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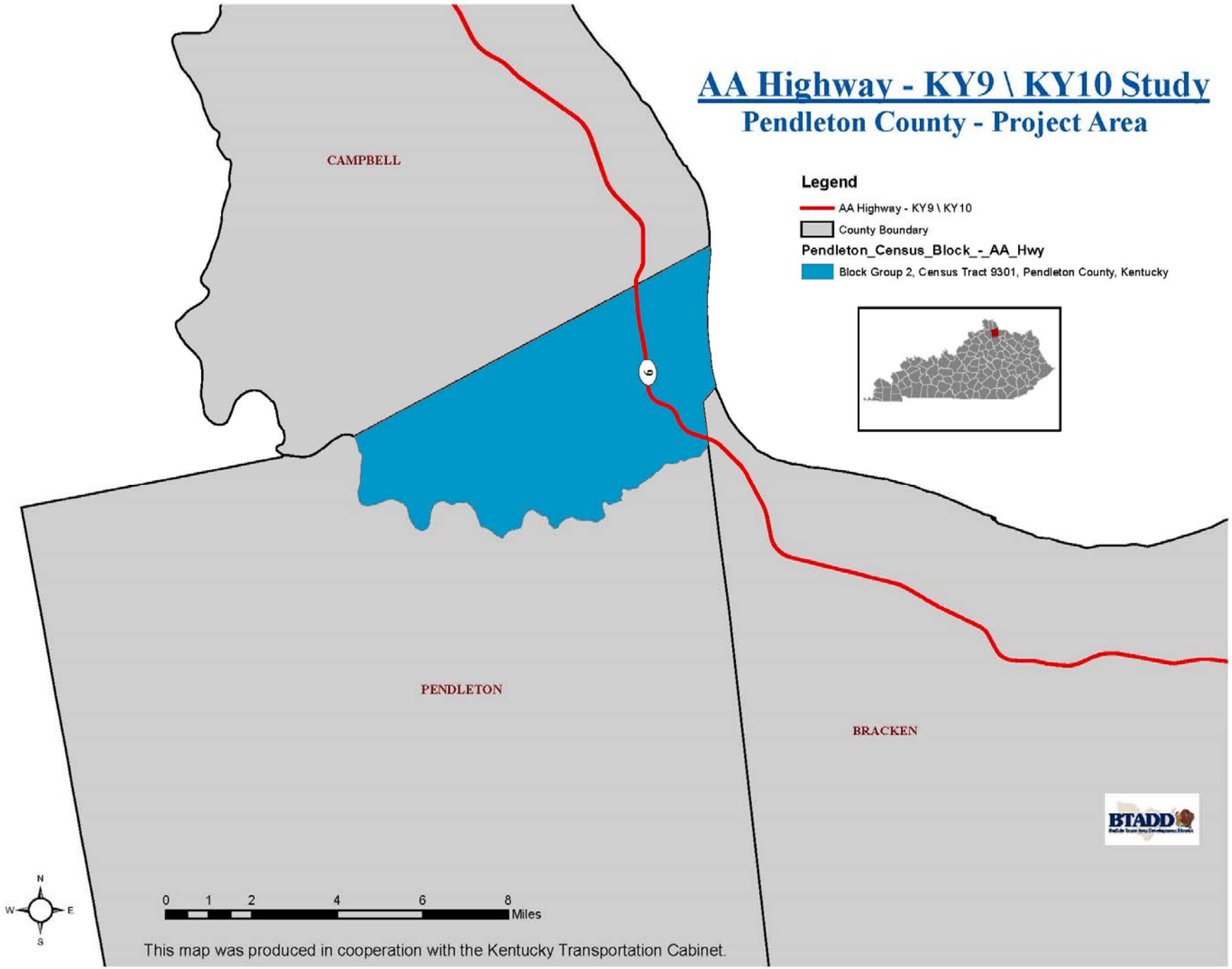
0 1 2 4 6 8
Miles
CAMPBELL
PENDLETON
9
BTADD
This map was produced in cooperation with the Kentucky Transportation Cabinet.


AA Highway - KY9 \ KY10 Study
Pendleton County - Project Area
CAMPBELL
PENDLETON
BRACKEN
Legend
AA Highway - KY9 \ KY10
County Boundary
Pendleton_Census_Block_-_AA_Hwy
Block Group 2, Census Tract 9301, Pendleton County, Kentucky
9
BTADD
N
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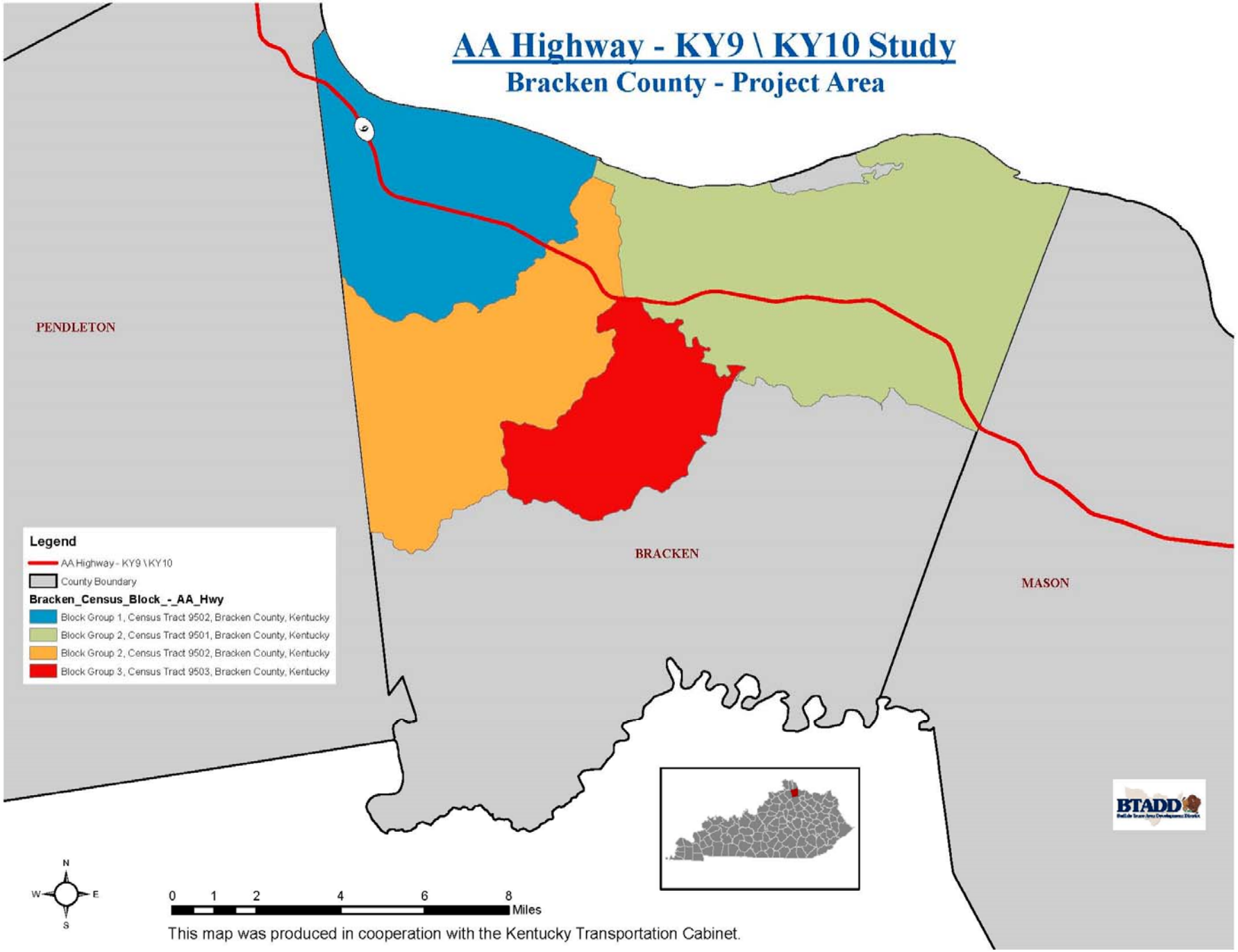
0 1 2 4 6 8
Miles
This map was produced in cooperation with the Kentucky Transportation Cabinet.


AA Highway - KY9 \ KY10 Study
Bracken County - Project Area
PENDLETON
BRACKEN
MASON
Legend
AA Highway - KY9 \ KY10
County Boundary
Bracken_Census_Block_-_AA_Hwy
Block Group 1, Census Tract 9502, Bracken County, Kentucky
Block Group 2, Census Tract 9501, Bracken County, Kentucky
Block Group 2, Census Tract 9502, Bracken County, Kentucky
Block Group 3, Census Tract 9503, Bracken County, Kentucky
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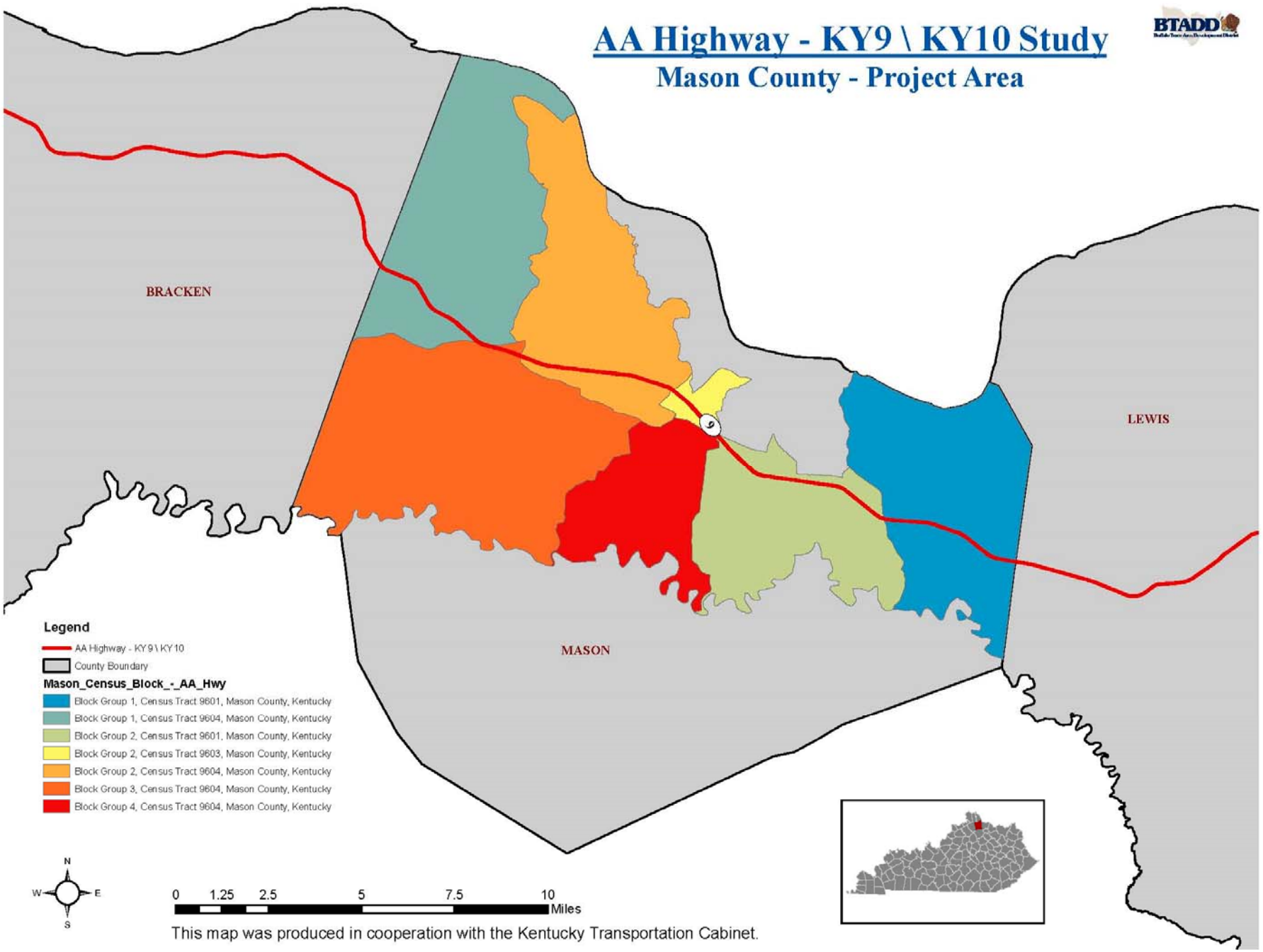
Miles
This map was produced in cooperation with the Kentucky Transportation Cabinet.
BTADD


AA Highway - KY9 \ KY10 Study
Mason County - Project Area
BTADD
BRACKEN
LEWIS
MASON
Legend
AA Highway - KY9 \ KY10
County Boundary
Mason_Census_Block_-_AA_Hwy
Block Group 1, Census Tract 9601, Mason County, Kentucky
Block Group 1, Census Tract 9604, Mason County, Kentucky
Block Group 2, Census Tract 9601, Mason County, Kentucky
Block Group 2, Census Tract 9603, Mason County, Kentucky
Block Group 2, Census Tract 9604, Mason County, Kentucky
Block Group 3, Census Tract 9604, Mason County, Kentucky
Block Group 4, Census Tract 9604, Mason County, Kentucky
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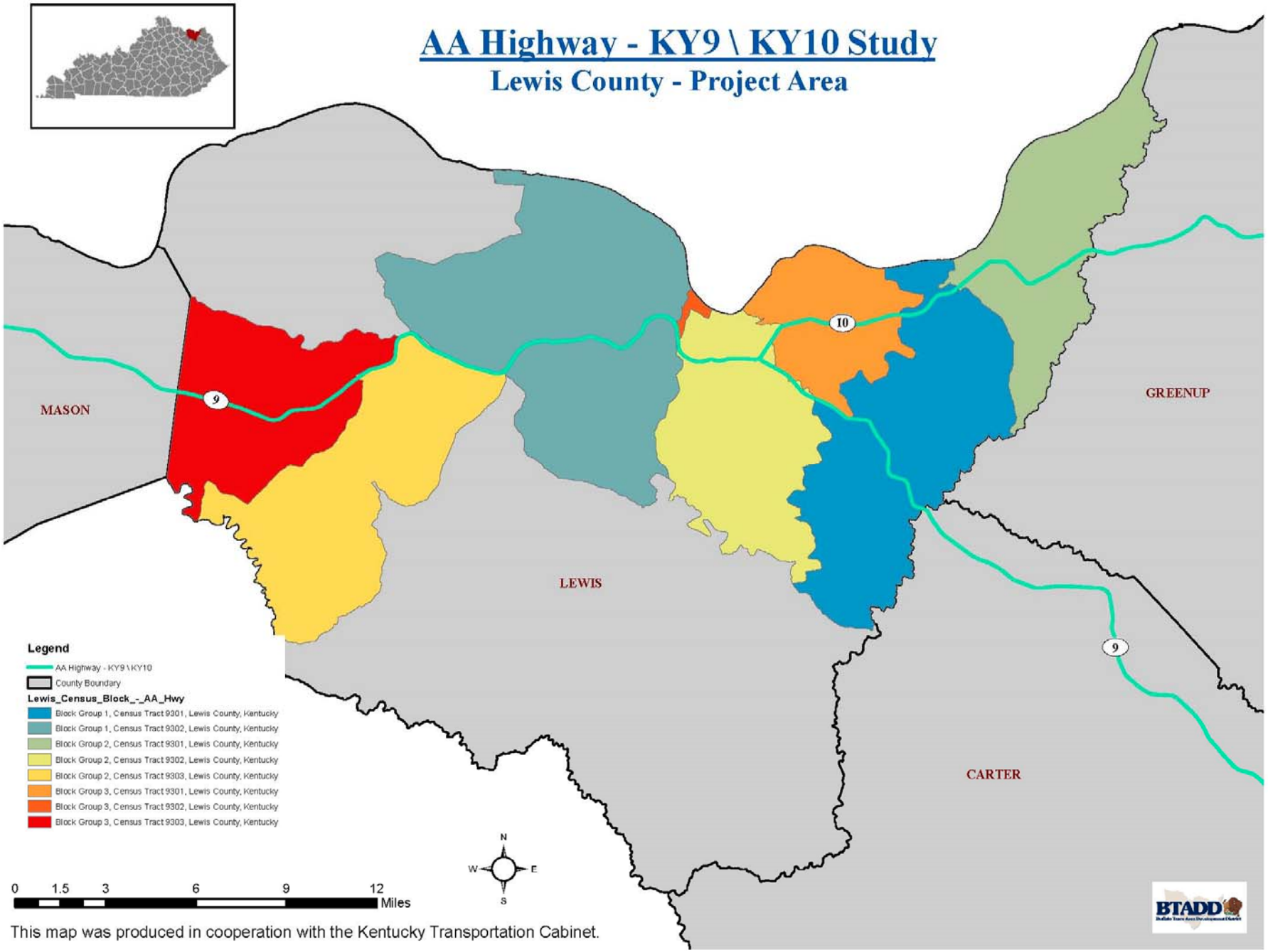
0 1.25 2.5 5 7.5 10
Miles
This map was produced in cooperation with the Kentucky Transportation Cabinet.


AA Highway - KY9 \ KY10 Study
Lewis County - Project Area
MASON
LEWIS
GREENUP
CARTER
9
10
Legend
AA Highway - KY9 \ KY10
County Boundary
Lewis_Census_Block_-_AA_Hwy
Block Group 1, Census Tract 9301, Lewis County, Kentucky
Block Group 1, Census Tract 9302, Lewis County, Kentucky
Block Group 2, Census Tract 9301, Lewis County, Kentucky
Block Group 2, Census Tract 9302, Lewis County, Kentucky
Block Group 2, Census Tract 9303, Lewis County, Kentucky
Block Group 3, Census Tract 9301, Lewis County, Kentucky
Block Group 3, Census Tract 9302, Lewis County, Kentucky
Block Group 3, Census Tract 9303, Lewis County, Kentucky
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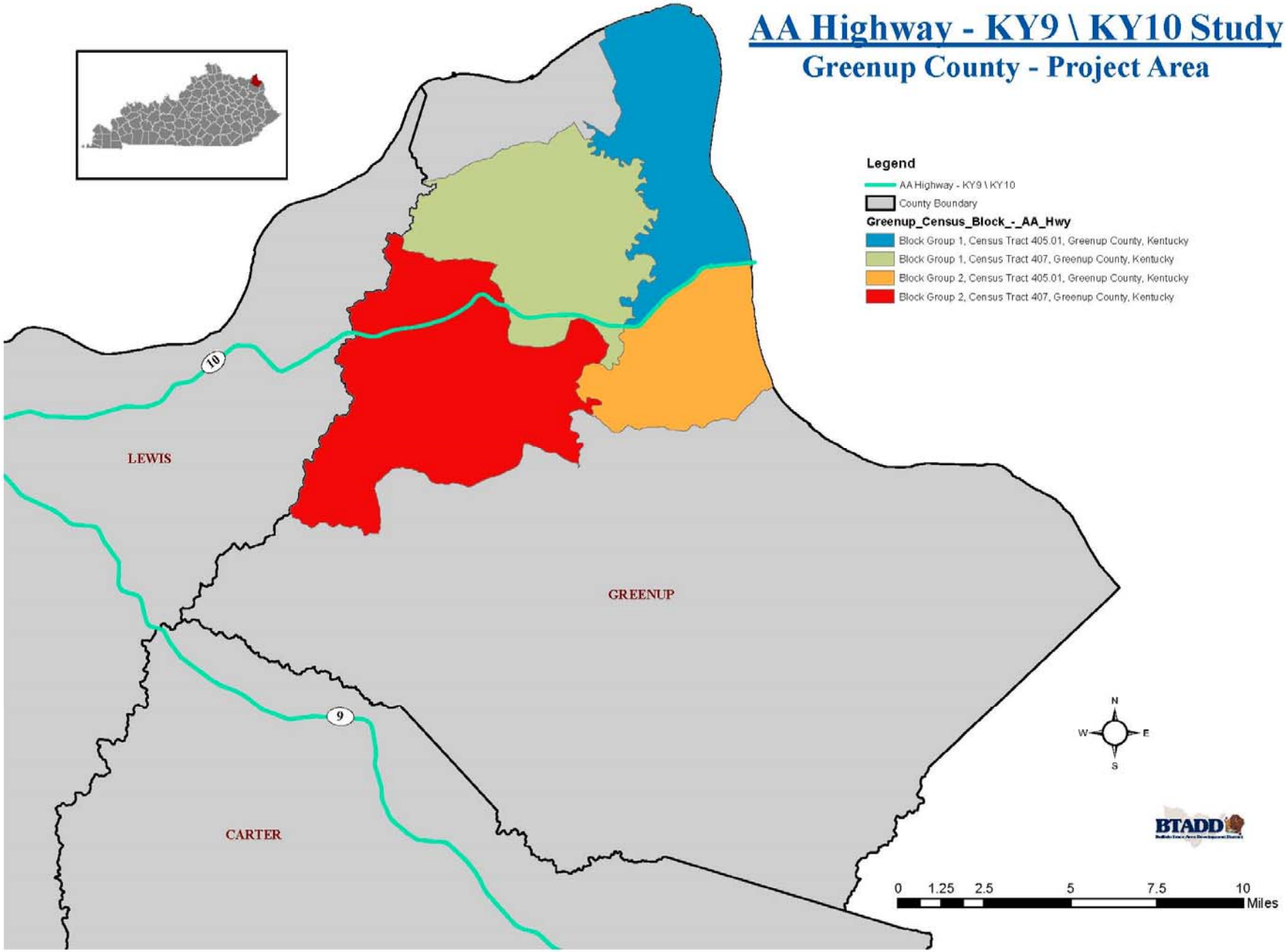
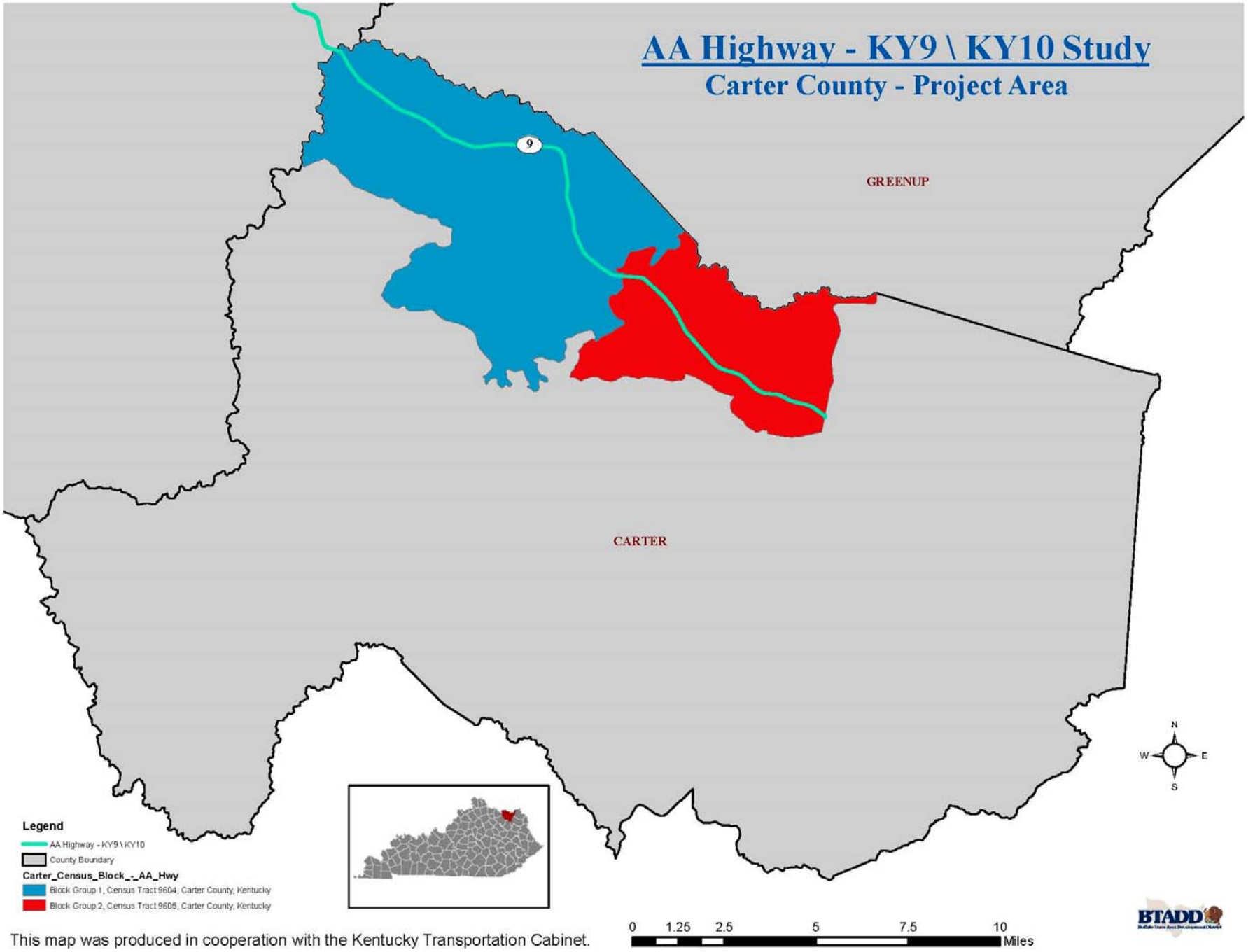
Miles
This map was produced in cooperation with the Kentucky Transportation Cabinet.
BTADD

This map was produced in cooperation with the Kentucky Transportation Cabinet.

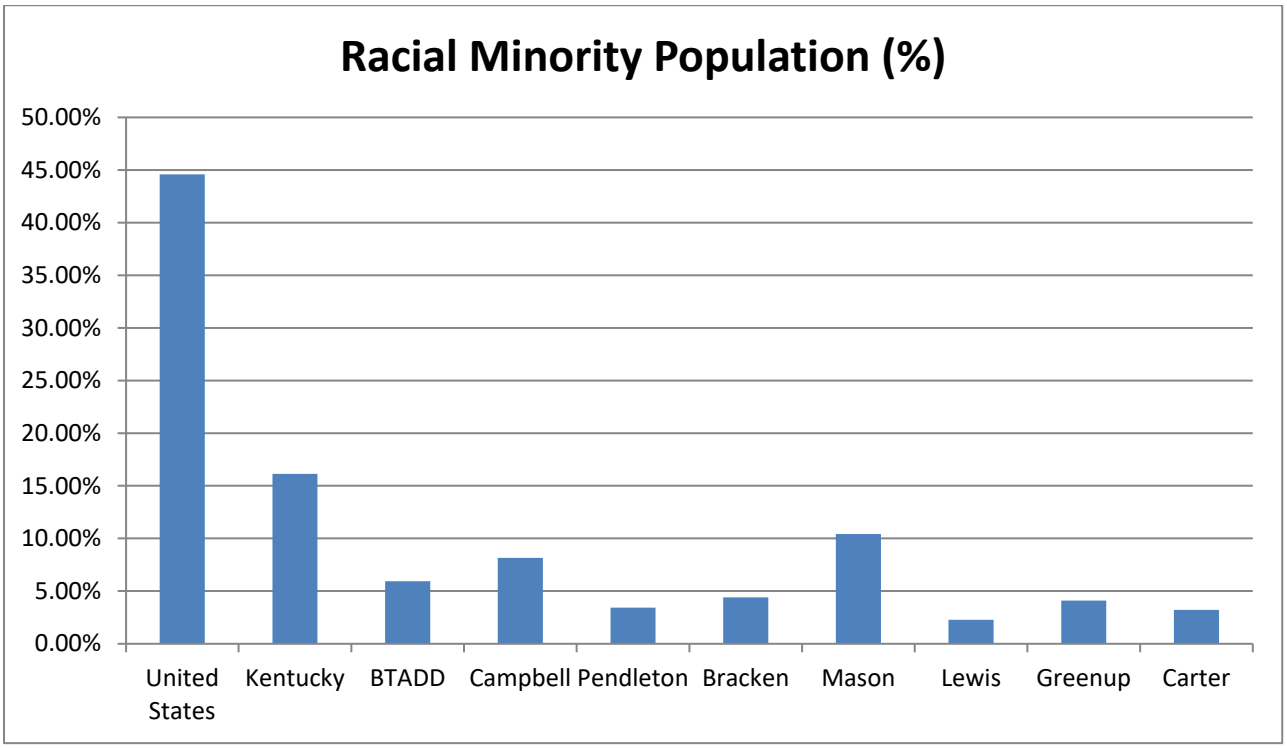




This map was produced in cooperation with the Kentucky Transportation Cabinet.

Study Findings

Population by Persons of Racial Minority Origin



Racial minorities in the United States make up 44.59% of the population, but in Kentucky that percentage drops significantly to just 16.13%. In regards to the AA Highway and the counties that it covers, they were all well below the state average. Mason County had the highest numbers at 10.41%. Campbell County came in second with 8.15% and the highest block group percentage of 38.36%. (Block Group 2 Census Tract 501)

	Total Population	Minority Population	Minority Population (%)
United States	321,004,407	143,144,776	44.59%
Kentucky	4,424,376	713,768	16.13%
BTADD	56,219	3,333	5.93%
Campbell	91,804	7,478	8.15%
Pendleton	14,877	510	3.43%
Bracken	8,488	373	4.39%
Mason	17,490	1,820	10.41%
Lewis	13,565	308	2.27%
Greenup	36,012	1,473	4.09%
Carter	27,385	878	3.21%

Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table B03002

	Total Population	Minority Population	Minority Population (%)
United States	321,004,407	143,144,776	44.59%
Kentucky	4,424,376	713,768	16.13%
BTADD	56,219	3,333	5.93%
Campbell	91,804	7,487	8.16%
Block Group 1, Census Tract 501	282	96	34.04%
Block Group 2, Census Tract 501	1374	527	38.36%
Block Group 2, Census Tract 506	735	127	17.28%
Block Group 1, Census Tract 519.01	2508	81	3.23%
Block Group 3, Census Tract 519.01	1848	0	0.00%
Block Group 1, Census Tract 519.03	1792	157	8.76%
Block Group 3, Census Tract 519.03	1094	139	12.71%
Block Group 1, Census Tract 520.02	1108	6	0.54%
Block Group 2, Census Tract 520.02	915	0	0.00%
Block Group 4, Census Tract 525	2555	536	20.98%
Block Group 1, Census Tract 531	1708	122	7.14%
Block Group 2, Census Tract 531	2985	6	0.20%
Block Group 1, Census Tract 533.01	2105	33	1.57%
Block Group 3, Census Tract 533.01	2279	128	5.62%
Block Group 1, Census Tract 533.02	1584	126	7.95%
Block Group 2, Census Tract 533.02	1291	15	1.16%

Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table B03002

	Total Population	Minority Population	Minority Population (%)
United States	321,004,407	143,144,776	44.59%
Kentucky	4,424,376	713,768	16.13%
BTADD	56,219	3,333	5.93%
Pendleton	14,877	510	3.43%
Block Group 2, Census Tract 9301	1656	16	0.97%

Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table B03002

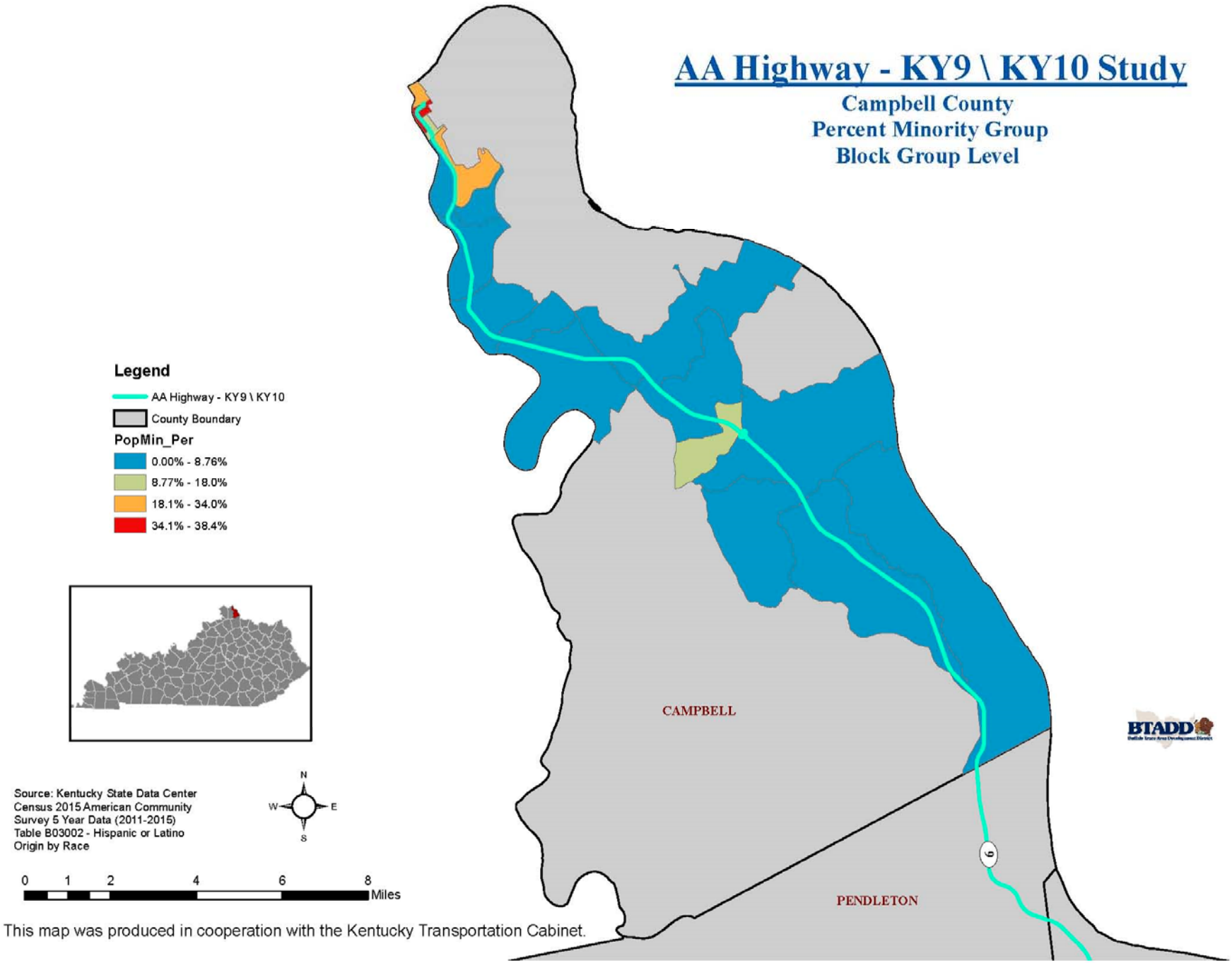
	Total Population	Minority Population	Minority Population (%)
United States	321,004,407	143,144,776	44.59%
Kentucky	4,424,376	713,768	16.13%
BTADD	56,219	3,333	5.93%
Bracken	8,488	373	4.39%
Block Group 2, Census Tract 9501	1589	84	5.29%
Block Group 1, Census Tract 9502	851	17	2.00%
Block Group 2, Census Tract 9502	1061	0	0.00%
Block Group 3, Census Tract 9503	890	6	0.67%
Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table B03002			

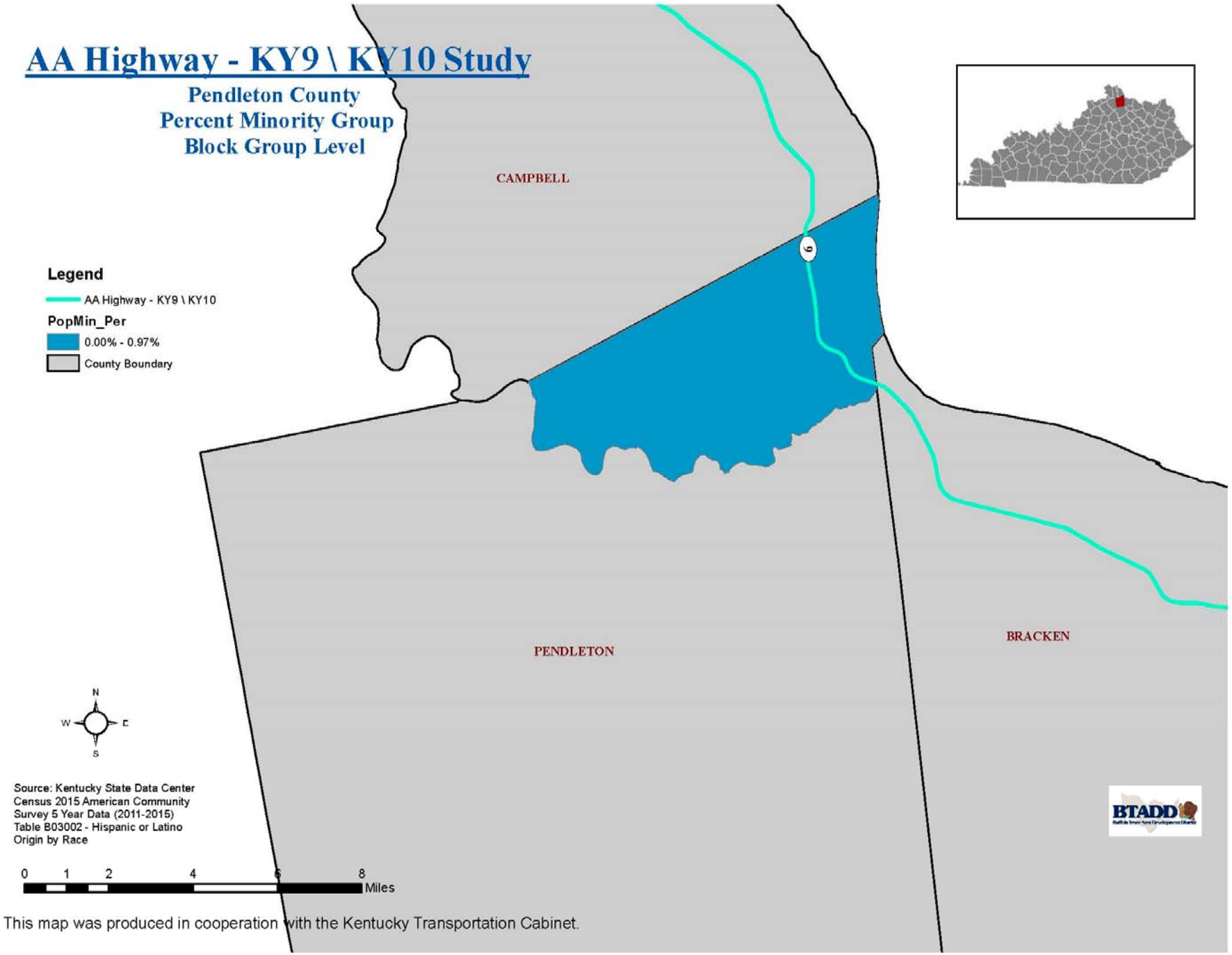
	Total Population	Minority Population	Minority Population (%)
United States	321,004,407	143,144,776	44.59%
Kentucky	4,424,376	713,768	16.13%
BTADD	56,219	3,333	5.93%
Mason	17,490	1,820	10.41%
Block Group 1, Census Tract 9601	1832	122	6.66%
Block Group 2, Census Tract 9601	945	101	10.69%
Block Group 2, Census Tract 9603	1158	150	12.95%
Block Group 1, Census Tract 9604	928	17	1.83%
Block Group 2, Census Tract 9604	735	0	0.00%
Block Group 3, Census Tract 9604	1052	9	0.86%
Block Group 4, Census Tract 9604	1609	164	10.19%
Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table B03002			

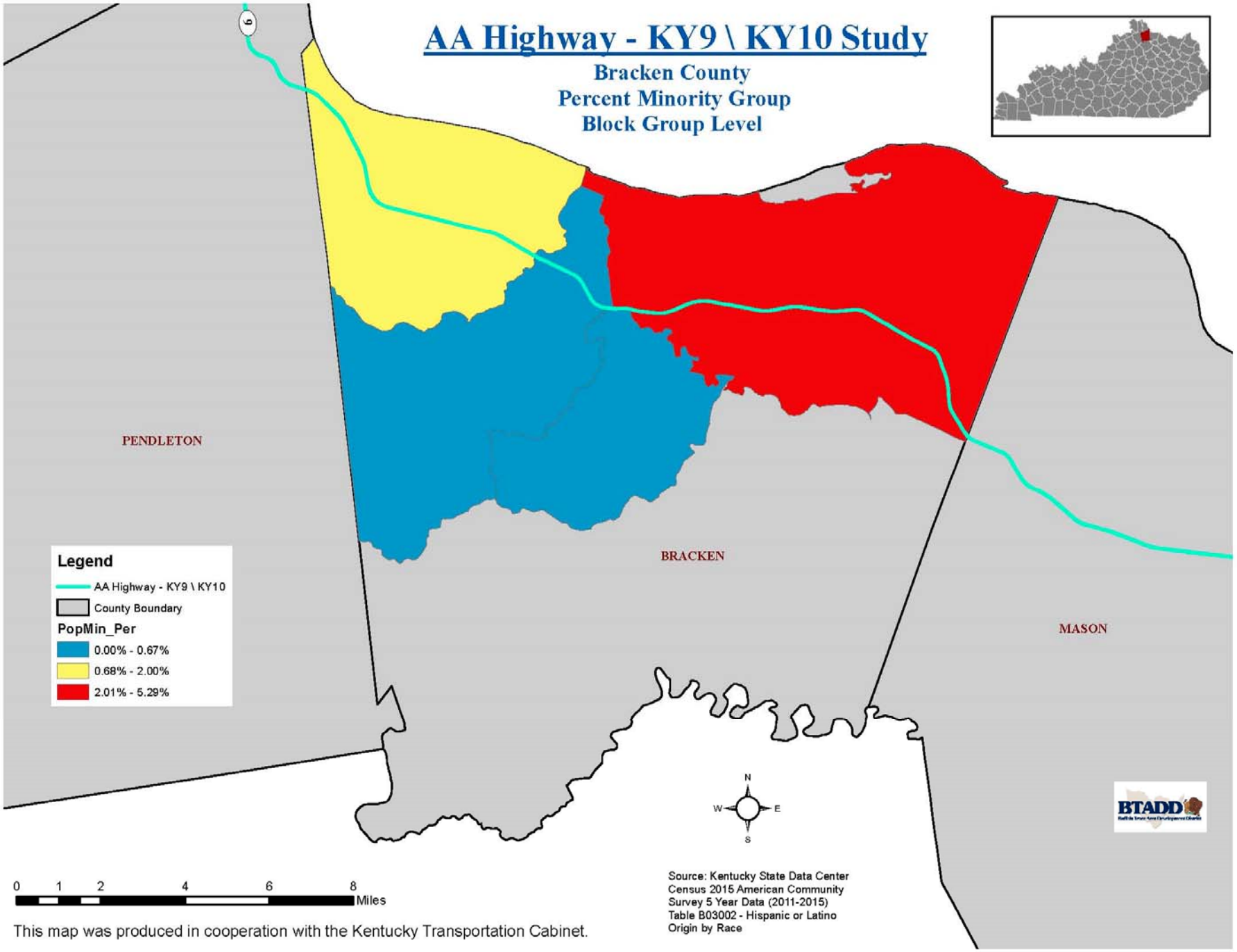
	Total Population	Minority Population	Minority Population (%)
United States	321,004,407	143,144,776	44.59%
Kentucky	4,424,376	713,768	16.13%
BTADD	56,219	3,333	5.93%
Lewis	13,565	308	2.27%
Block Group 1, Census Tract 9301	968	22	2.27%
Block Group 2, Census Tract 9301	1620	7	0.43%
Block Group 3, Census Tract 9301	1764	20	1.13%
Block Group 1, Census Tract 9302	2090	140	6.70%
Block Group 2, Census Tract 9302	1297	22	1.70%
Block Group 3, Census Tract 9302	616	12	1.95%
Block Group 2, Census Tract 9303	636	0	0.00%
Block Group 3, Census Tract 9303	1933	0	0.00%
Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table B03002			

	Total Population	Minority Population	Minority Population (%)
United States	321,004,407	143,144,776	44.59%
Kentucky	4,424,376	713,768	16.13%
BTADD	56,219	3,333	5.93%
Greenup	36,012	1,473	4.09%
Block Group 1, Census Tract 405.01	1628	43	2.64%
Block Group 2, Census Tract 405.01	1644	61	3.71%
Block Group 1, Census Tract 407	1569	12	0.76%
Block Group 2, Census Tract 407	621	71	11.43%
Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table B03002			

	Total Population	Minority Population	Minority Population (%)
United States	321,004,407	143,144,776	44.59%
Kentucky	4,424,376	713,768	16.13%
BTADD	56,219	3,333	5.93%
Carter	27,385	878	3.21%
Block Group 1, Census Tract 9604	1232	0	0.00%
Block Group 2, Census Tract 9605	1421	0	0.00%
Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table B03002			


AA Highway - KY9 \ KY10 Study
Campbell County
Percent Minority Group
Block Group Level
Legend
AA Highway - KY9 \ KY10
County Boundary
PopMin_Per
0.00% - 8.76%
8.77% - 18.0%
18.1% - 34.0%
34.1% - 38.4%
CAMPBELL
PENDLETON
BTADD
N
W
E
S
Source: Kentucky State Data Center
Census 2015 American Community
Survey 5 Year Data (2011-2015)
Table B03002 - Hispanic or Latino
Origin by Race
0 1 2 4 6 8
Miles
This map was produced in cooperation with the Kentucky Transportation Cabinet.


AA Highway - KY9 \ KY10 Study
Pendleton County
Percent Minority Group
Block Group Level
CAMPBELL
9
Legend
AA Highway - KY9 \ KY10
PopMin_Per
0.00% - 0.97%
County Boundary
PENDLETON
BRACKEN
N
W
E
S
Source: Kentucky State Data Center
Census 2015 American Community
Survey 5 Year Data (2011-2015)
Table B03002 - Hispanic or Latino
Origin by Race
0 1 2 4 6 8
Miles
BTADD
This map was produced in cooperation with the Kentucky Transportation Cabinet.


AA Highway - KY9 \ KY10 Study
Bracken County
Percent Minority Group
Block Group Level
PENDLETON
BRACKEN
MASON
9
Legend
AA Highway - KY9 \ KY10
County Boundary
PopMin_Per
0.00% - 0.67%
0.68% - 2.00%
2.01% - 5.29%
N
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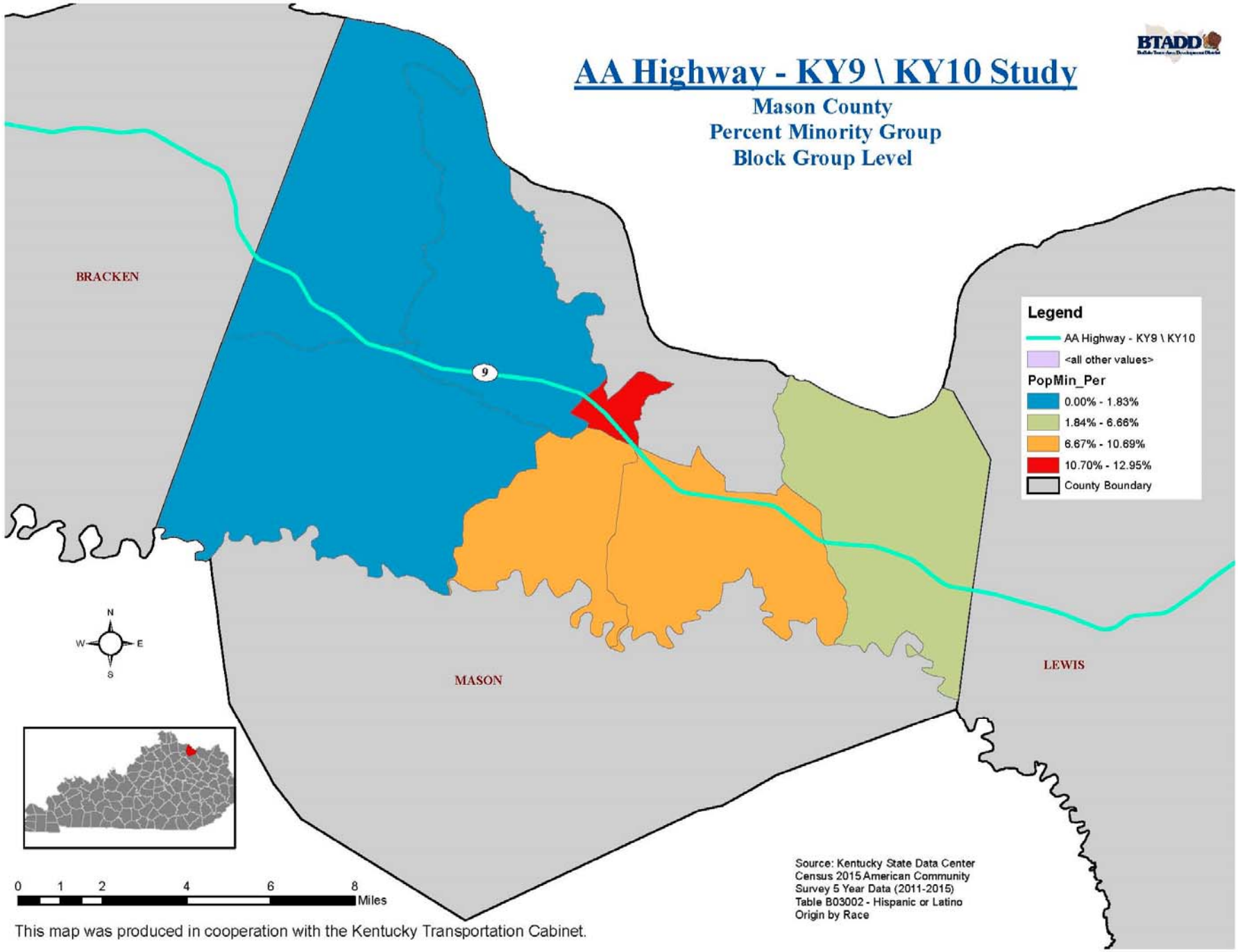
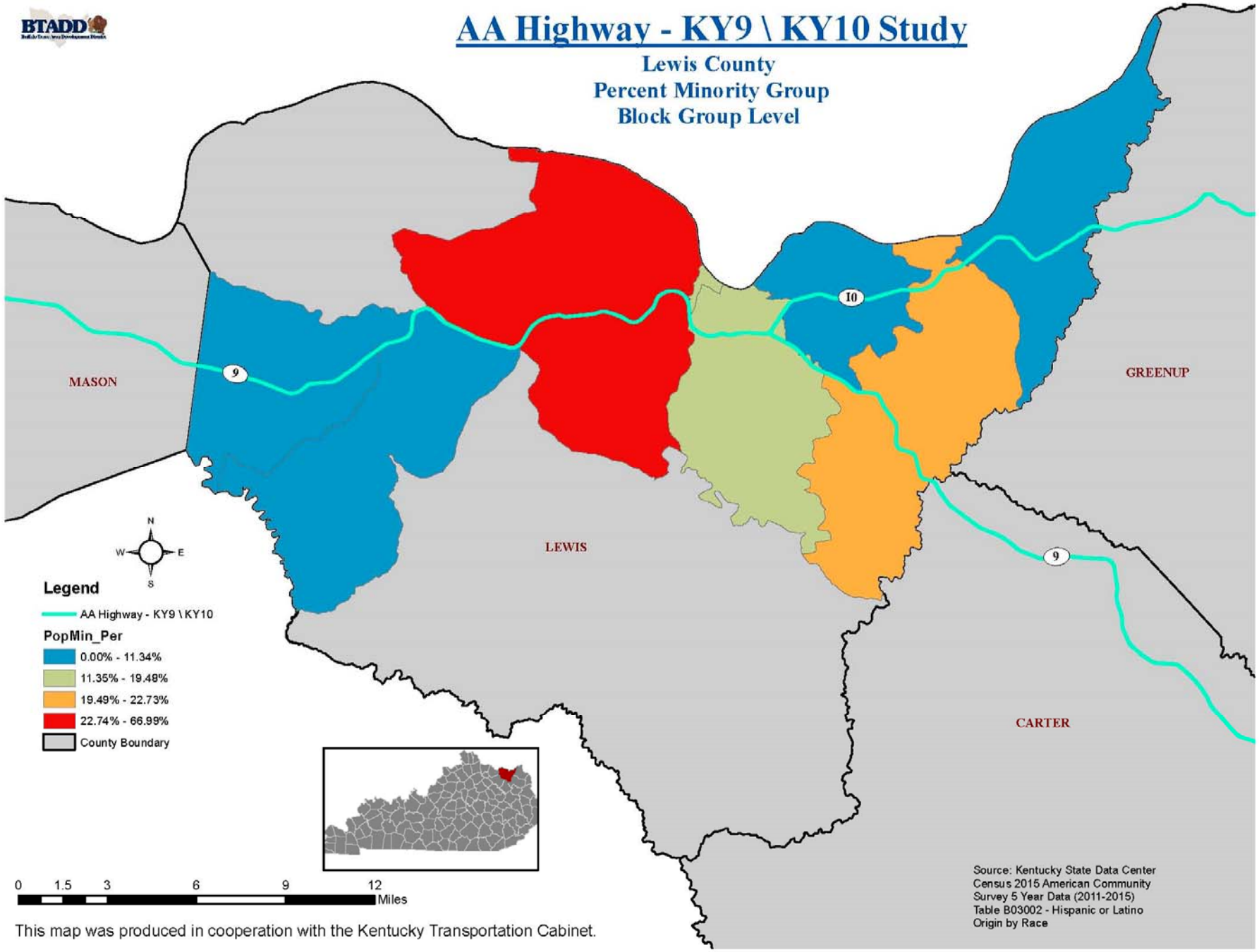
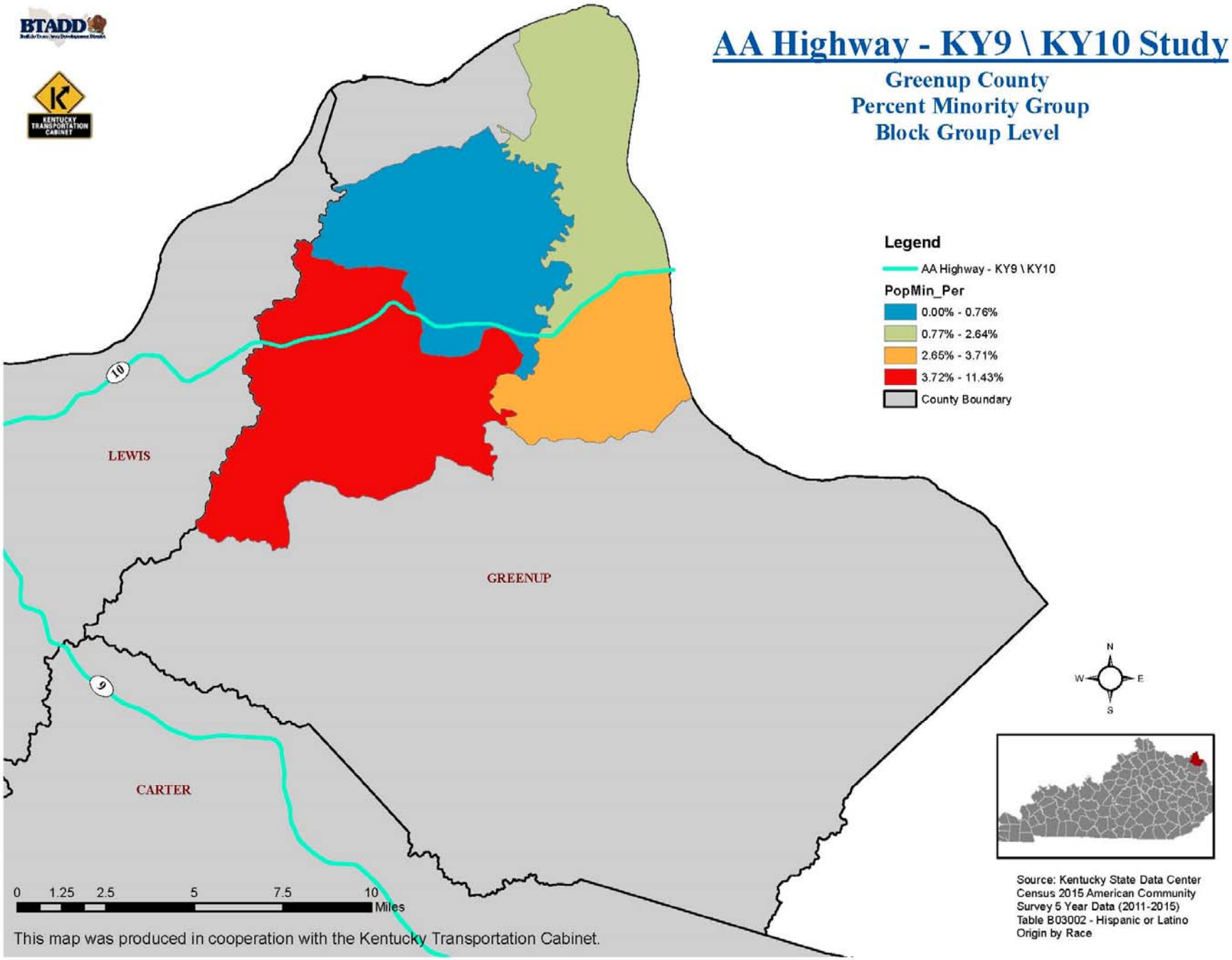
BTADD
0 1 2 4 6 8
Miles
This map was produced in cooperation with the Kentucky Transportation Cabinet.
Source: Kentucky State Data Center
Census 2015 American Community
Survey 5 Year Data (2011-2015)
Table B03002 - Hispanic or Latino
Origin by Race


AA Highway - KY9 \ KY10 Study
Mason County
Percent Minority Group
Block Group Level
BTADD
BRACKEN
MASON
LEWIS
9
Legend
AA Highway - KY9 \ KY10
<all other values>
PopMin_Per
0.00% - 1.83%
1.84% - 6.66%
6.67% - 10.69%
10.70% - 12.95%
County Boundary
N
W
E
S
0 1 2 4 6 8
Miles
Source: Kentucky State Data Center
Census 2015 American Community
Survey 5 Year Data (2011-2015)
Table B03002 - Hispanic or Latino
Origin by Race
This map was produced in cooperation with the Kentucky Transportation Cabinet.


BTADD
AA Highway - KY9 \ KY10 Study
Lewis County
Percent Minority Group
Block Group Level
MASON
LEWIS
GREENUP
CARTER
9
10
9
N
W
E
S
Legend
AA Highway - KY9 \ KY10
PopMin_Per
0.00% - 11.34%
11.35% - 19.48%
19.49% - 22.73%
22.74% - 66.99%
County Boundary
0 1.5 3 6 9 12
Miles
This map was produced in cooperation with the Kentucky Transportation Cabinet.
Source: Kentucky State Data Center
Census 2015 American Community
Survey 5 Year Data (2011-2015)
Table B03002 - Hispanic or Latino
Origin by Race


AA Highway - KY9 \ KY10 Study
Greenup County
Percent Minority Group
Block Group Level
Legend
AA Highway - KY9 \ KY10
PopMin_Per
0.00% - 0.76%
0.77% - 2.64%
2.65% - 3.71%
3.72% - 11.43%
County Boundary
LEWIS
GREENUP
CARTER
10
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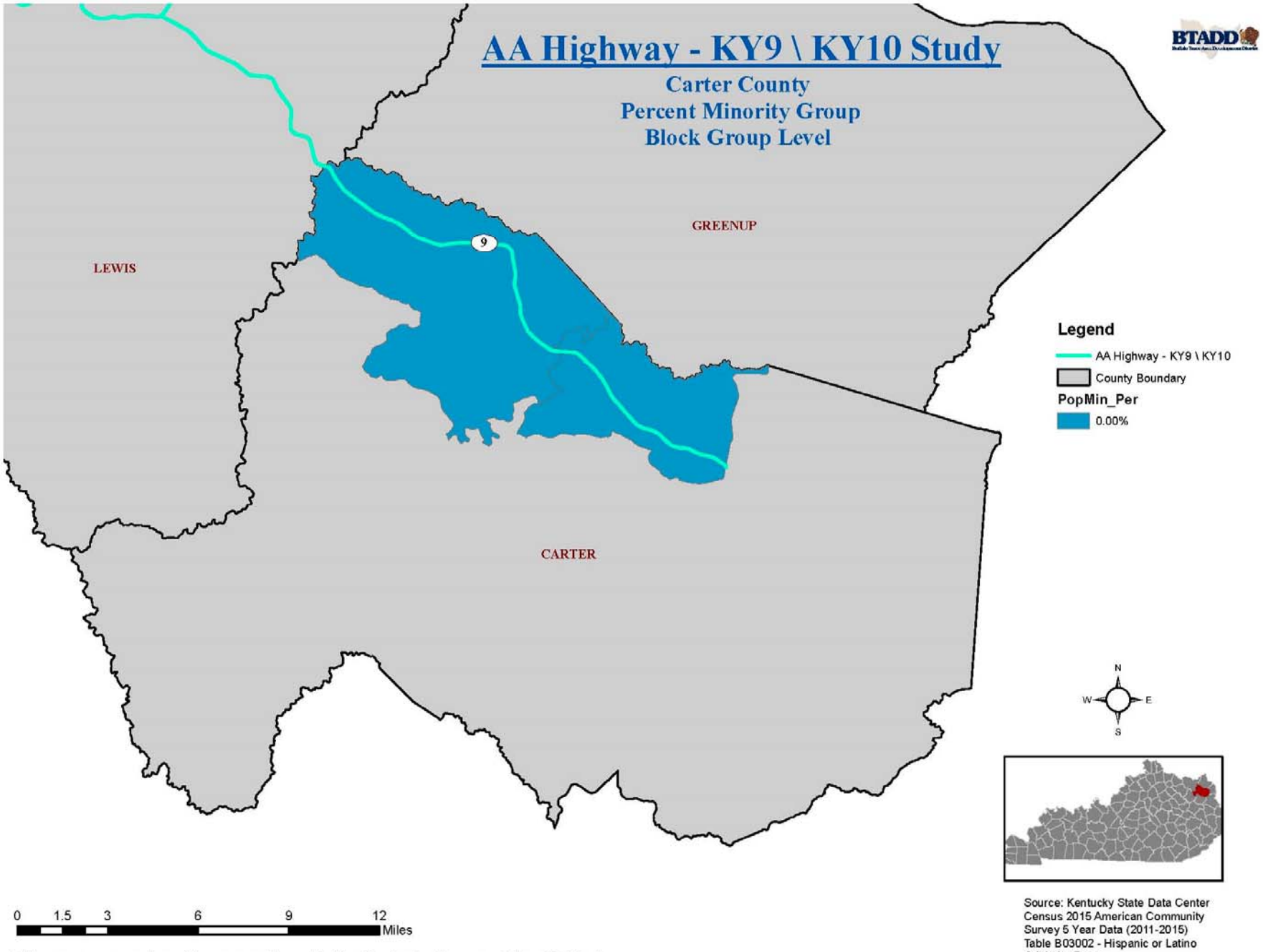
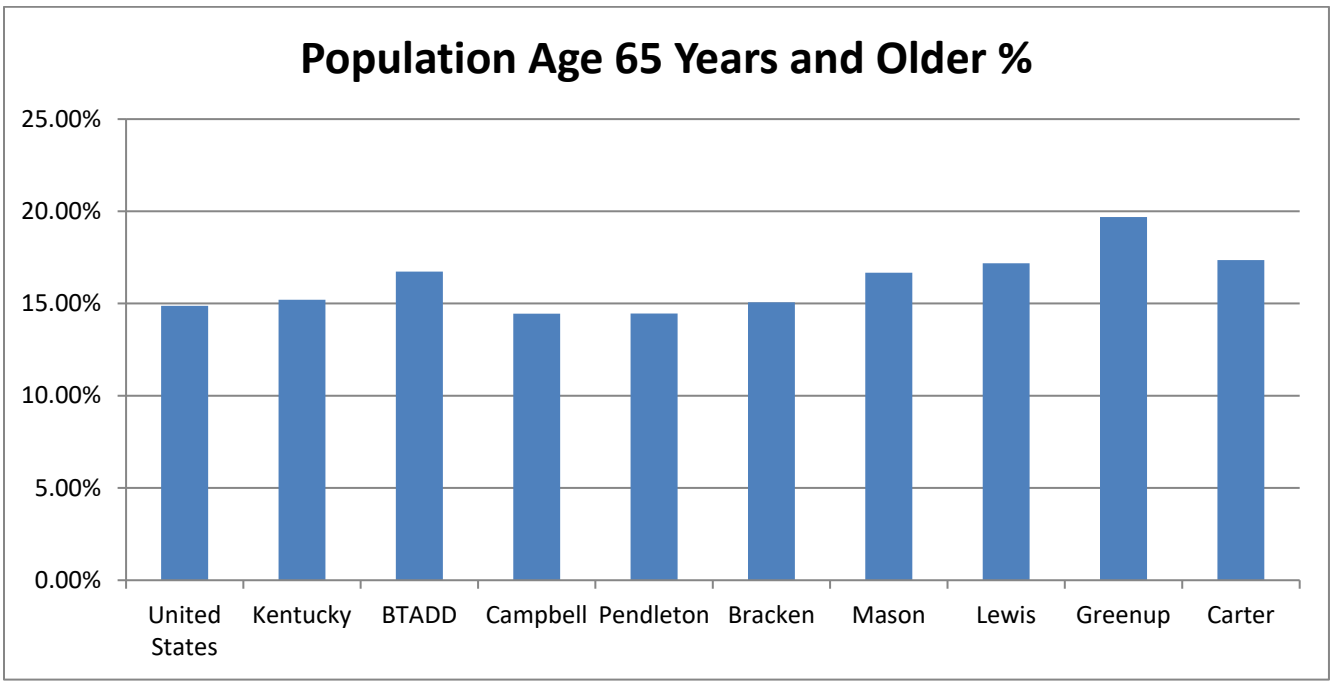
0 1.25 2.5 5 7.5 10
Miles
This map was produced in cooperation with the Kentucky Transportation Cabinet.
Source: Kentucky State Data Center
Census 2015 American Community
Survey 5 Year Data (2011-2015)
Table B03002 - Hispanic or Latino
Origin by Race



This map was produced in cooperation with the Kentucky Transportation Cabinet.

Population by Persons Age 65 Years and Older



Mason, Lewis, Greenup and Carter Counties all have a higher percentage of *Persons Age 65 Years and Older* than both the state (15.20%) and the U.S. (14.87%). Although those counties are higher as a whole, Bracken and Campbell County had Census Tracts with areas of higher concentrations with Campbell County having the highest of the seven counties. Block Group (BG) 3 of Census Tract (CT) 519.03 has a considerably higher percentage (29.80%) of elderly persons as well as Block Group (BG) 1 of Census Tract (CT) 533.01 (28.08%) .

	Total Population	Population Age 65 Years and Older	Population Age 65 Years and Older (%)
United States	321,004,407	47,732,389	14.87%
Kentucky	4,424,376	672,706	15.20%
BTADD	56,219	9,406	16.73%
Campbell	91,804	13,264	14.45%
Pendleton	14,877	2,151	14.46%
Bracken	8,488	1,278	15.06%
Mason	17,490	2,916	16.67%
Lewis	13,565	2,330	17.18%
Greenup	36,012	7,092	19.69%
Carter	27,385	4,752	17.35%
Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table B01001			

	Total Population	Population Age 65 Years and Older	Population Age 65 Years and Older (%)
United States	321,004,407	47,732,389	14.87%
Kentucky	4,424,376	672,706	15.20%
BTADD	56,219	9,406	16.73%
Campbell	91,804	13,264	14.45%
Block Group 1, Census Tract 501	282	13	4.61%
Block Group 2, Census Tract 501	1374	194	14.12%
Block Group 2, Census Tract 506	735	77	10.48%
Block Group 1, Census Tract 519.01	2508	280	11.16%
Block Group 3, Census Tract 519.01	1848	264	14.29%
Block Group 1, Census Tract 519.03	1792	271	15.12%
Block Group 3, Census Tract 519.03	1094	326	29.80%
Block Group 1, Census Tract 520.02	1108	131	11.82%
Block Group 2, Census Tract 520.02	915	157	17.16%
Block Group 4, Census Tract 525	2555	230	9.00%
Block Group 1, Census Tract 531	1708	203	11.89%
Block Group 2, Census Tract 531	2985	609	20.40%
Block Group 1, Census Tract 533.01	2105	591	28.08%
Block Group 3, Census Tract 533.01	2279	382	16.76%
Block Group 1, Census Tract 533.02	1584	179	11.30%
Block Group 2, Census Tract 533.02	1291	241	18.67%
Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table B01001			

	Total Population	Population Age 65 Years and Older	Population Age 65 Years and Older (%)
United States	321,004,407	47,732,389	14.87%
Kentucky	4,424,376	672,706	15.20%
BTADD	56,219	9,406	16.73%
Pendleton	14,877	2,151	14.46%
Block Group 2, Census Tract 9301	1656	196	11.84%
Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table B01001			

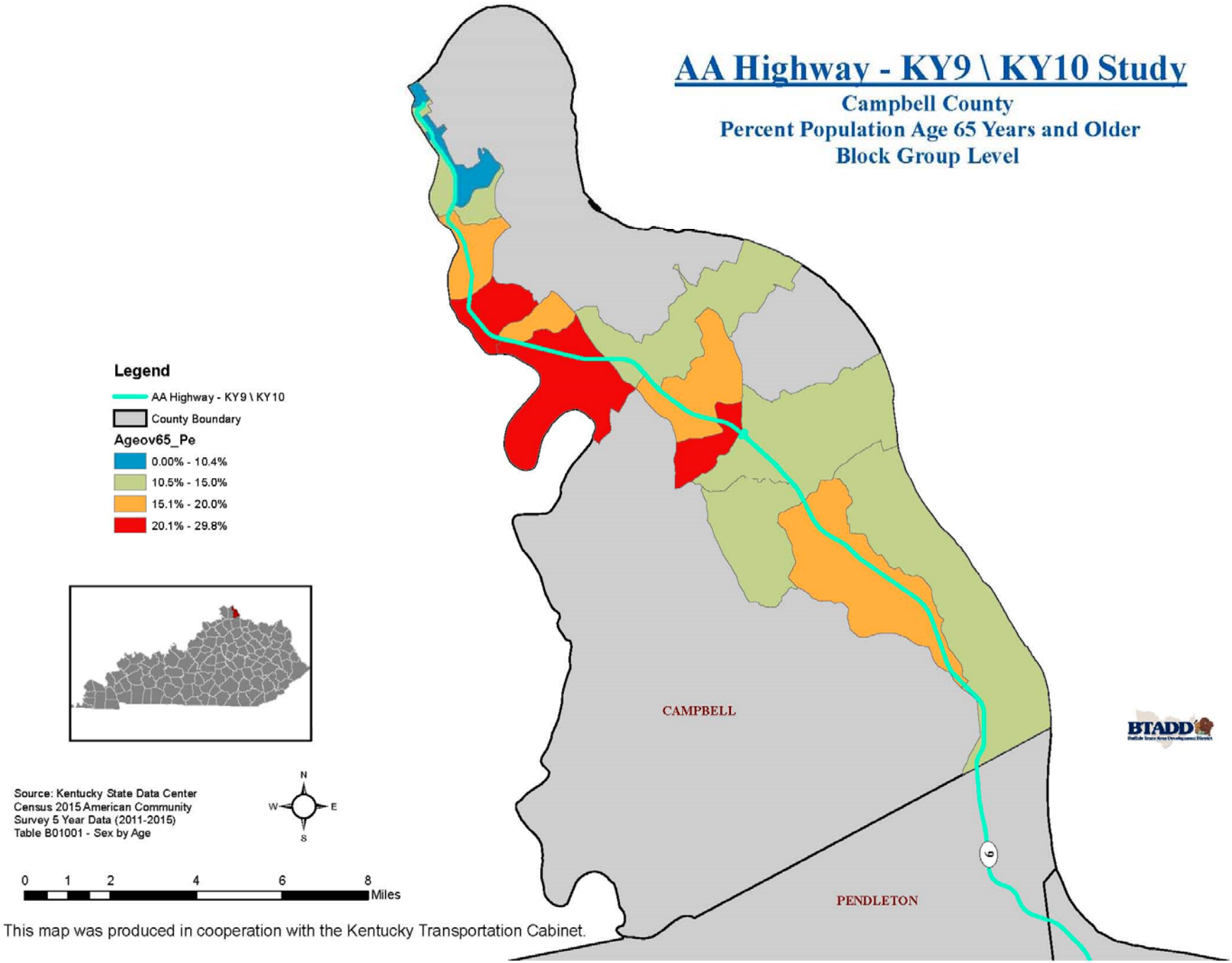
	Total Population	Population Age 65 Years and Older	Population Age 65 Years and Older (%)
United States	321,004,407	47,732,389	14.87%
Kentucky	4,424,376	672,706	15.20%
BTADD	56,219	9,406	16.73%
Bracken	8,488	1,278	15.06%
Block Group 2, Census Tract 9501	1589	257	16.17%
Block Group 1, Census Tract 9502	851	168	19.74%
Block Group 2, Census Tract 9502	1061	124	11.69%
Block Group 3, Census Tract 9503	890	196	22.02%
Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table B01001			

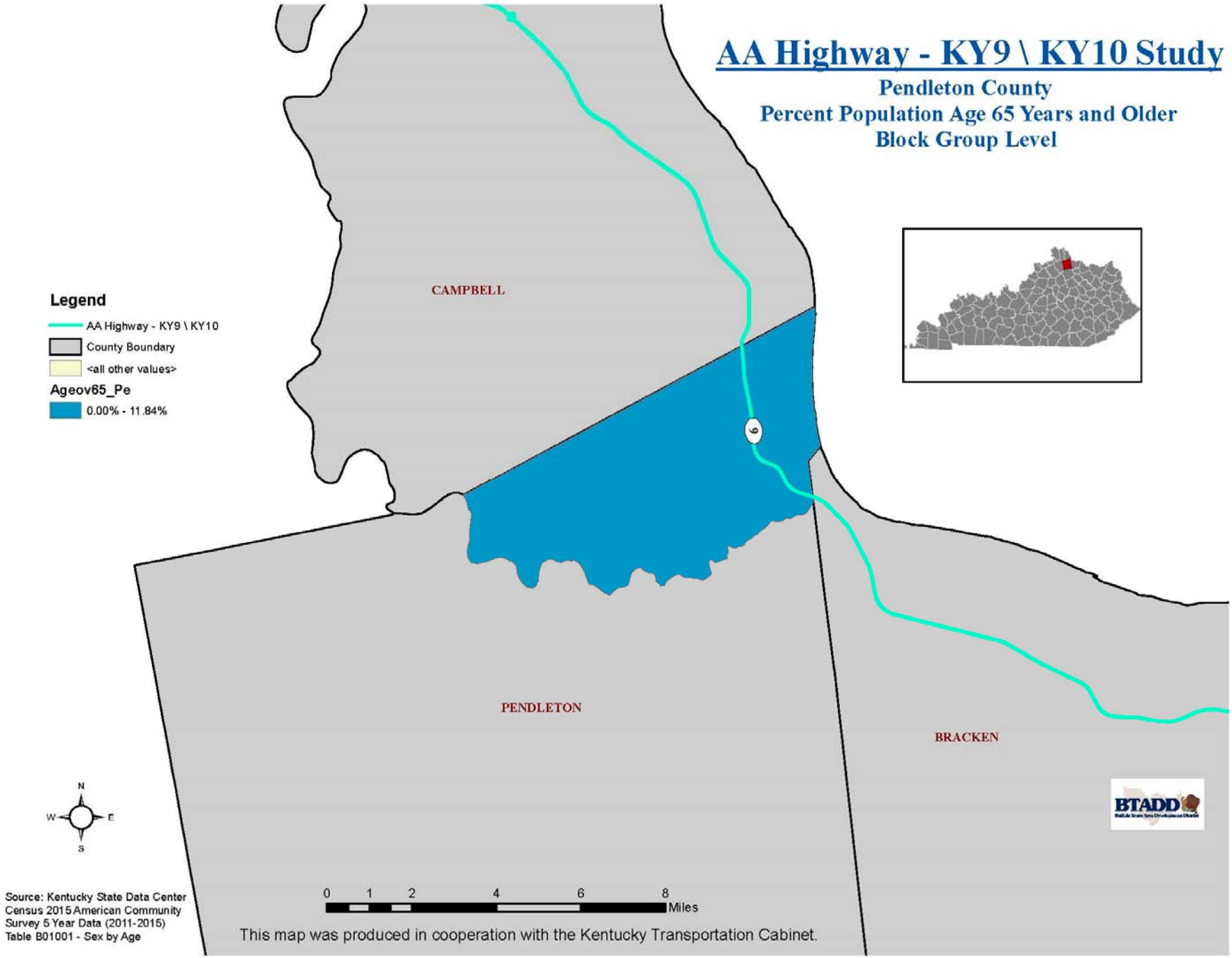
	Total Population	Population Age 65 Years and Older	Population Age 65 Years and Older (%)
United States	321,004,407	47,732,389	14.87%
Kentucky	4,424,376	672,706	15.20%
BTADD	56,219	9,406	16.73%
Mason	17,490	2,916	16.67%
Block Group 1, Census Tract 9601	1832	223	12.17%
Block Group 2, Census Tract 9601	945	186	19.68%
Block Group 2, Census Tract 9603	1158	285	24.61%
Block Group 1, Census Tract 9604	928	130	14.01%
Block Group 2, Census Tract 9604	735	157	21.36%
Block Group 3, Census Tract 9604	1052	106	10.08%
Block Group 4, Census Tract 9604	1609	288	17.90%
Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table B01001			

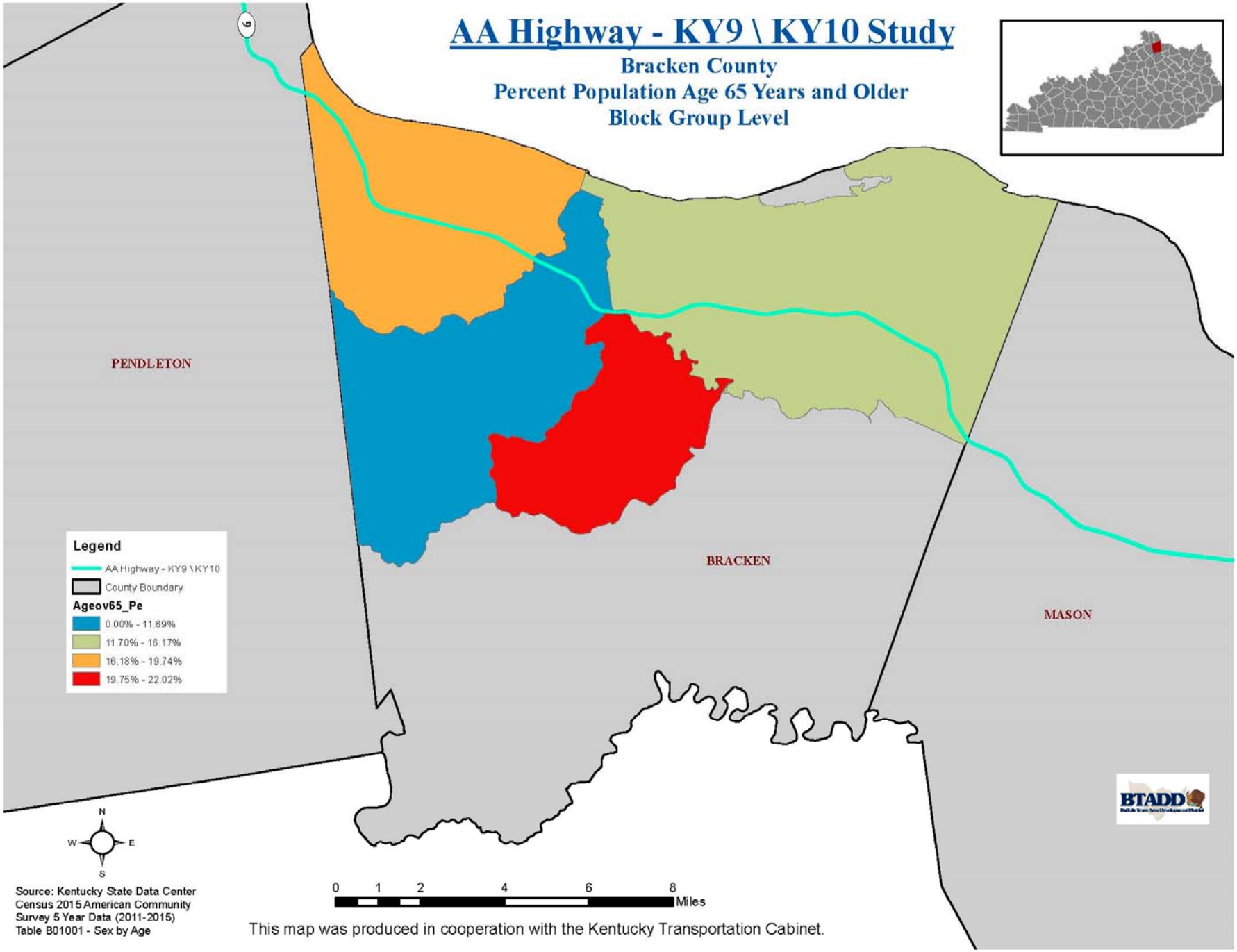
	Total Population	Population Age 65 Years and Older	Population Age 65 Years and Older (%)
United States	321,004,407	47,732,389	14.87%
Kentucky	4,424,376	672,706	15.20%
BTADD	56,219	9,406	16.73%
Lewis	13,565	2,330	17.18%
Block Group 1, Census Tract 9301	968	194	20.04%
Block Group 2, Census Tract 9301	1620	330	20.37%
Block Group 3, Census Tract 9301	1764	197	11.17%
Block Group 1, Census Tract 9302	2090	417	19.95%
Block Group 2, Census Tract 9302	1297	199	15.34%
Block Group 3, Census Tract 9302	616	108	17.53%
Block Group 2, Census Tract 9303	636	122	19.18%
Block Group 3, Census Tract 9303	1933	369	19.09%
Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table B01001			

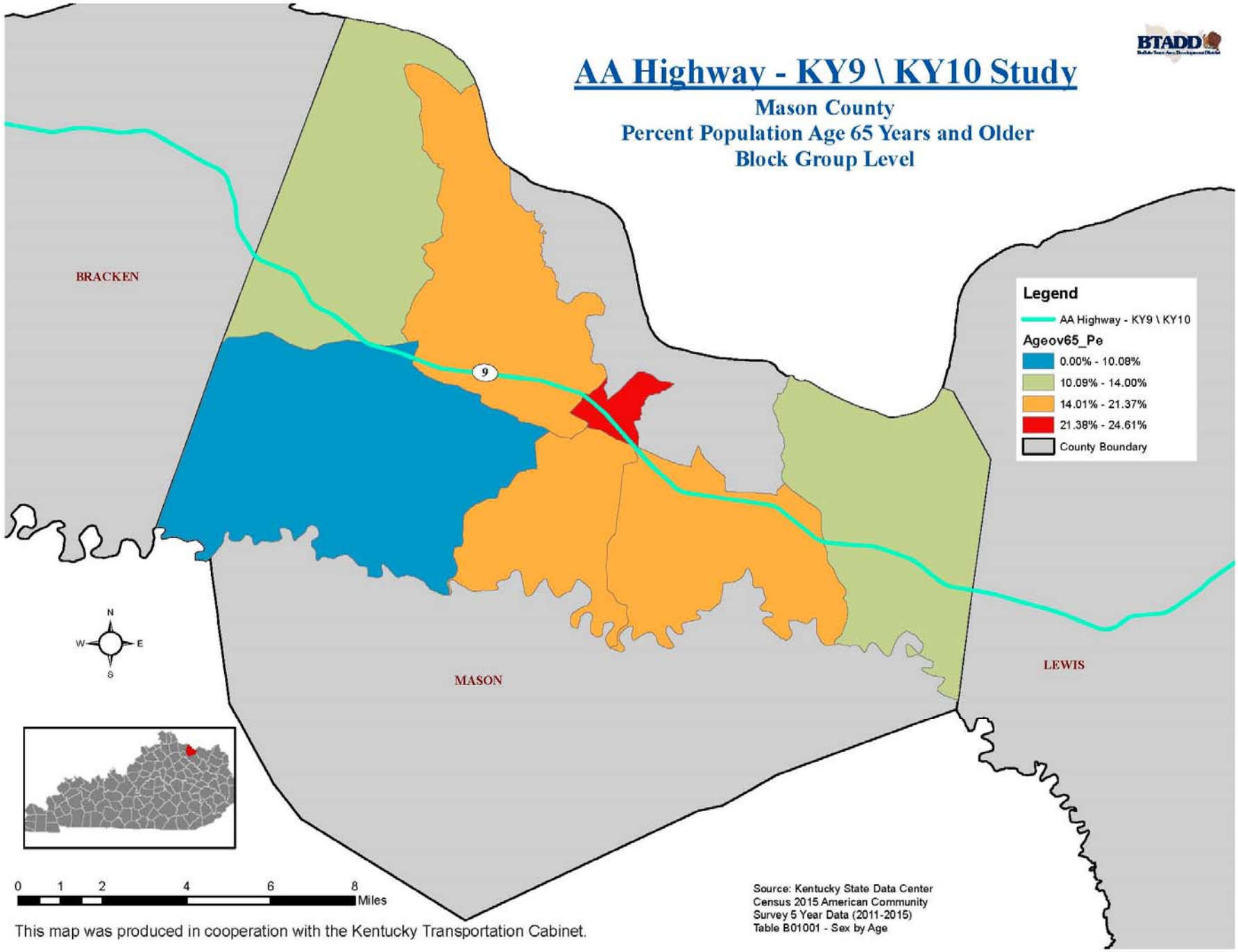
	Total Population	Population Age 65 Years and Older	Population Age 65 Years and Older (%)
United States	321,004,407	47,732,389	14.87%
Kentucky	4,424,376	672,706	15.20%
BTADD	56,219	9,406	16.73%
Greenup	36,012	7,092	19.69%
Block Group 1, Census Tract 405.01	1628	291	17.87%
Block Group 2, Census Tract 405.01	1644	275	16.73%
Block Group 1, Census Tract 407	1569	244	15.55%
Block Group 2, Census Tract 407	621	92	14.81%
Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table B01001			

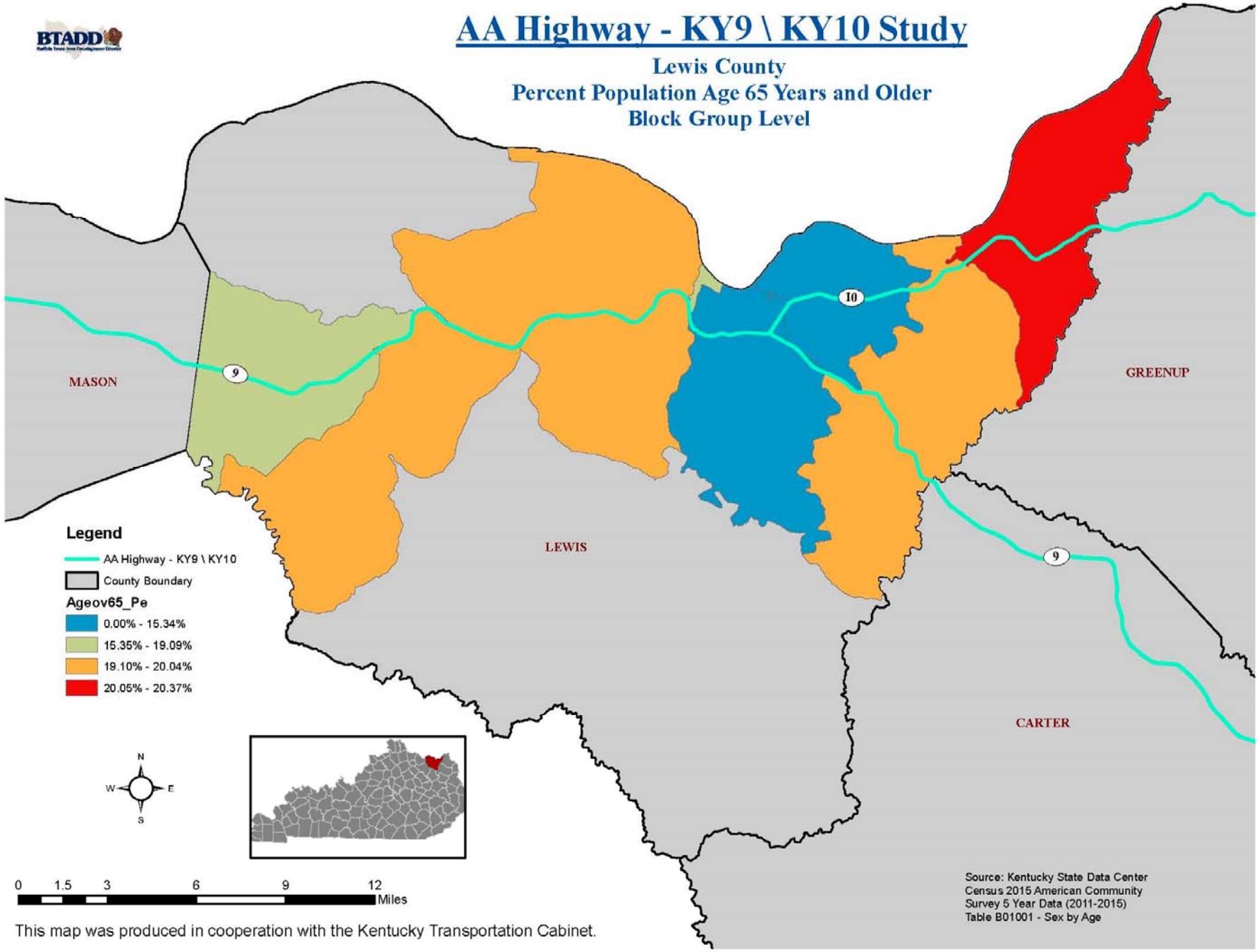
	Total Population	Population Age 65 Years and Older	Population Age 65 Years and Older (%)
United States	321,004,407	47,732,389	14.87%
Kentucky	4,424,376	672,706	15.20%
BTADD	56,219	9,406	16.73%
Carter	27,385	4,752	17.35%
Block Group 1, Census Tract 9604	1232	243	19.72%
Block Group 2, Census Tract 9605	1421	216	15.20%
Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table B01001			

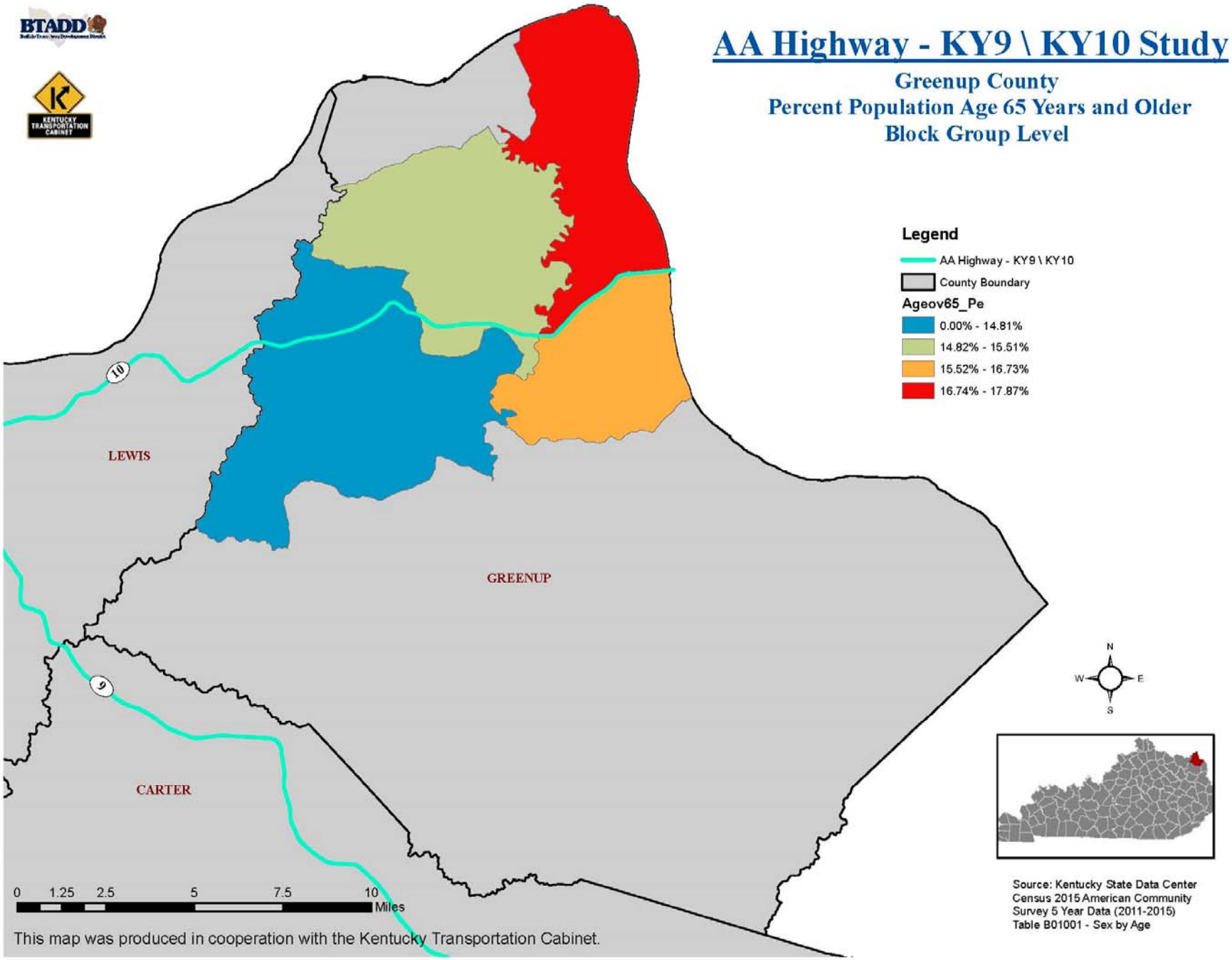

AA Highway - KY9 \ KY10 Study
Campbell County
Percent Population Age 65 Years and Older
Block Group Level
Legend
AA Highway - KY9 \ KY10
County Boundary
Ageov65_Pe
0.00% - 10.4%
10.5% - 15.0%
15.1% - 20.0%
20.1% - 29.8%
CAMPBELL
PENDLETON
9
BTADD
Source: Kentucky State Data Center
Census 2015 American Community
Survey 5 Year Data (2011-2015)
Table B01001 - Sex by Age
N
W
E
S
0 1 2 4 6 8
Miles
This map was produced in cooperation with the Kentucky Transportation Cabinet.

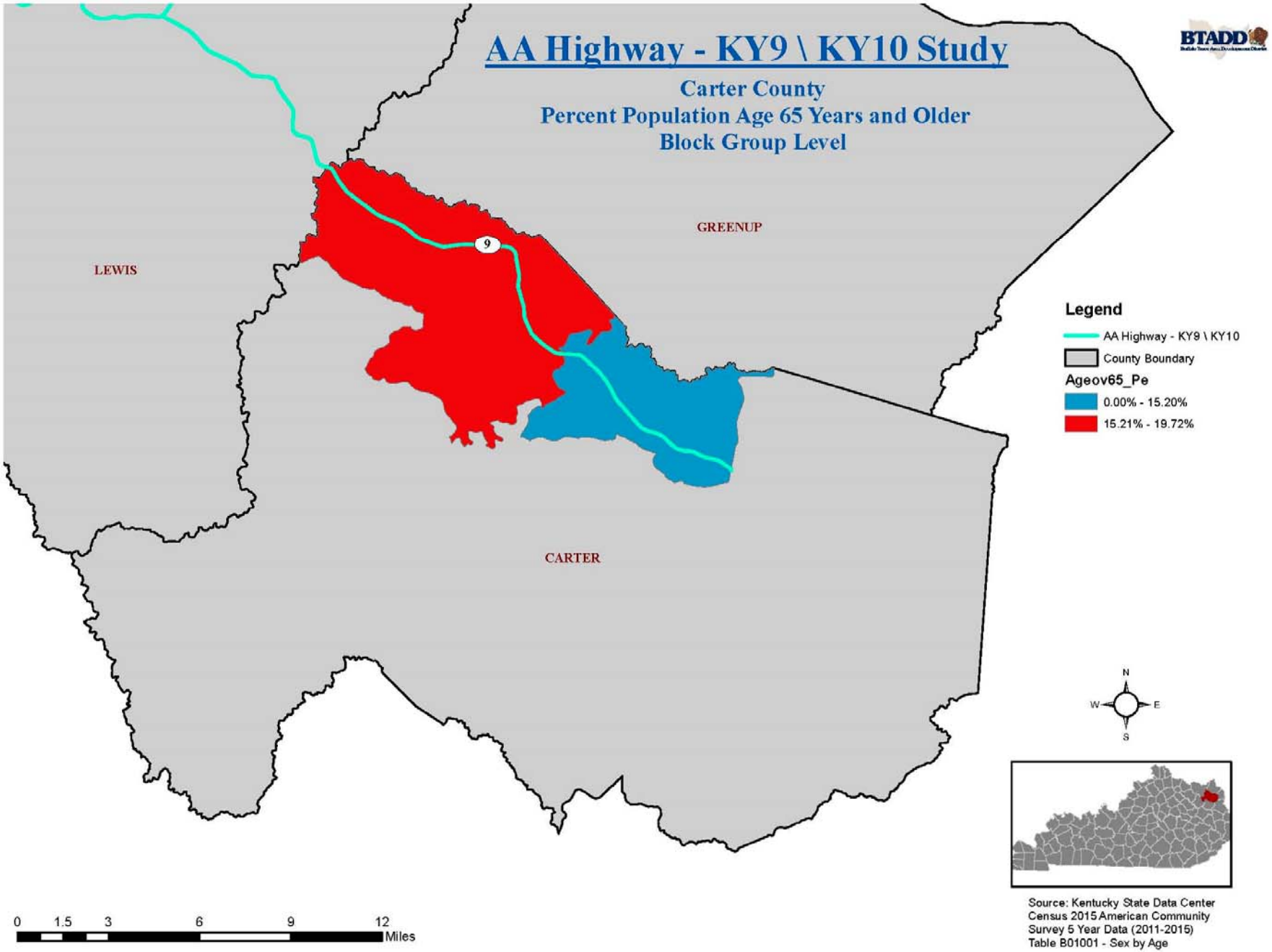

AA Highway - KY9 \ KY10 Study
Pendleton County
Percent Population Age 65 Years and Older
Block Group Level
Legend
AA Highway - KY9 \ KY10
County Boundary
<all other values>
Ageov65_Pe
0.00% - 11.84%
CAMPBELL
PENDLETON
BRACKEN
9
N
W
E
S
0 1 2 4 6 8
Miles
Source: Kentucky State Data Center
Census 2015 American Community
Survey 5 Year Data (2011-2015)
Table B01001 - Sex by Age
This map was produced in cooperation with the Kentucky Transportation Cabinet.
BTADD


AA Highway - KY9 \ KY10 Study
Bracken County
Percent Population Age 65 Years and Older
Block Group Level
PENDLETON
BRACKEN
MASON
Legend
AA Highway - KY9 \ KY10
County Boundary
Ageov65_Pe
0.00% - 11.69%
11.70% - 16.17%
16.18% - 19.74%
19.75% - 22.02%
N
W
E
S
0 1 2 4 6 8
Miles
Source: Kentucky State Data Center
Census 2015 American Community
Survey 5 Year Data (2011-2015)
Table B01001 - Sex by Age
This map was produced in cooperation with the Kentucky Transportation Cabinet.
BTADD


AA Highway - KY9 \ KY10 Study
Mason County
Percent Population Age 65 Years and Older
Block Group Level
BTADD
BRACKEN
MASON
LEWIS
9
Legend
AA Highway - KY9 \ KY10
Ageov65_Pe
0.00% - 10.08%
10.09% - 14.00%
14.01% - 21.37%
21.38% - 24.61%
County Boundary
N
W
E
S
0 1 2 4 6 8
Miles
Source: Kentucky State Data Center
Census 2015 American Community
Survey 5 Year Data (2011-2015)
Table B01001 - Sex by Age
This map was produced in cooperation with the Kentucky Transportation Cabinet.

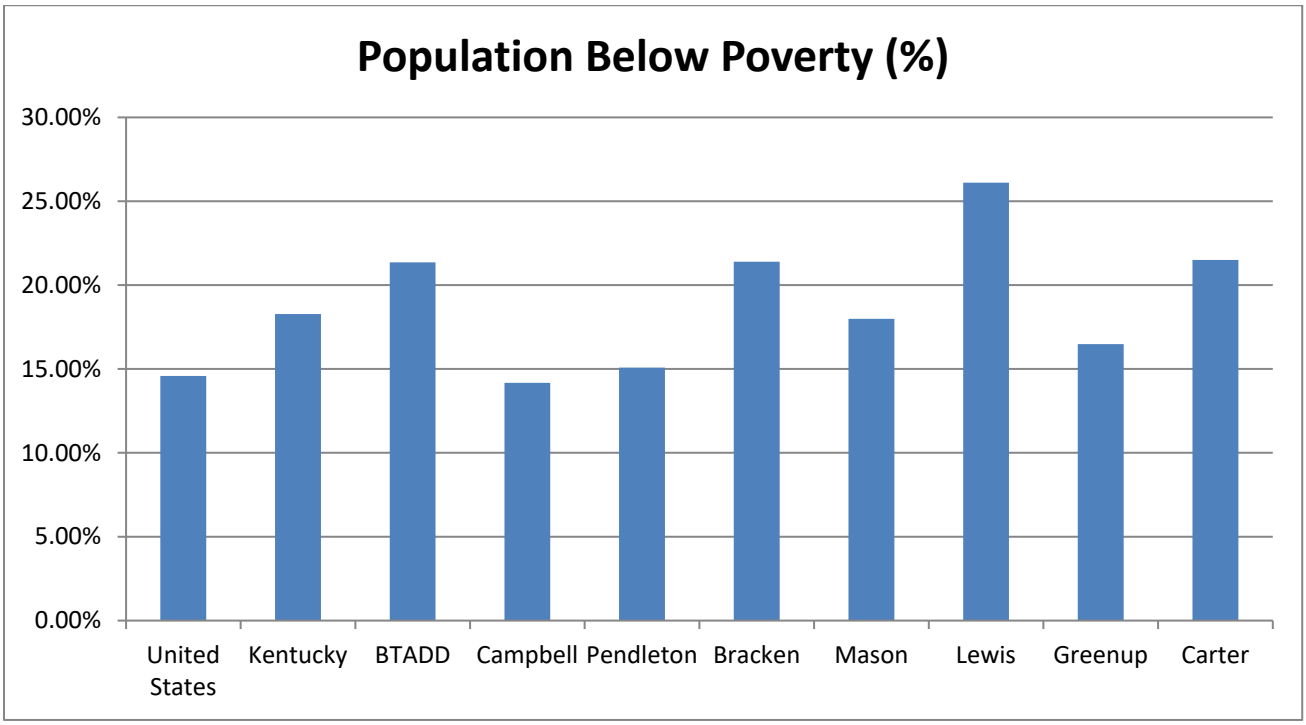

AA Highway - KY9 \ KY10 Study
Lewis County
Percent Population Age 65 Years and Older
Block Group Level
BTADD
MASON
LEWIS
GREENUP
CARTER
9
10
9
Legend
AA Highway - KY9 \ KY10
County Boundary
Ageov65_Pe
0.00% - 15.34%
15.35% - 19.09%
19.10% - 20.04%
20.05% - 20.37%
N
W
E
S
0 1.5 3 6 9 12
Miles
This map was produced in cooperation with the Kentucky Transportation Cabinet.
Source: Kentucky State Data Center
Census 2015 American Community
Survey 5 Year Data (2011-2015)
Table B01001 - Sex by Age


BTADD
KENTUCKY TRANSPORTATION CABINET
AA Highway - KY9 \ KY10 Study
Greenup County
Percent Population Age 65 Years and Older
Block Group Level
Legend
AA Highway - KY9 \ KY10
County Boundary
Ageov65_Pe
0.00% - 14.81%
14.82% - 15.51%
15.52% - 16.73%
16.74% - 17.87%
LEWIS
GREENUP
CARTER
10
9
N
W
E
S
0 1.25 2.5 5 7.5 10
Miles
This map was produced in cooperation with the Kentucky Transportation Cabinet.
Source: Kentucky State Data Center
Census 2015 American Community
Survey 5 Year Data (2011-2015)
Table B01001 - Sex by Age



This map was produced in cooperation with the Kentucky Transportation Cabinet.

Population by Persons below Poverty Level



The percentage of persons living below the poverty level in Kentucky (18.27%) is higher than that of the United States (14.58%). The counties that the AA highway cover all have a higher percentage than that of state with the exception of Campbell County (14.17%), which has the highest percentage in Block Group (BG) 2 of Census Tract (CT) 501 (70.14%).

	Total Population	Population Below Poverty	Population Below Poverty (%)
United States	313,048,563	45,650,345	14.58%
Kentucky	4,287,887	783,586	18.27%
BTADD	54,897	11,722	21.35%
Campbell	88,483	12,541	14.17%
Pendleton	14,345	2,163	15.08%
Bracken	8,252	1,765	21.39%
Mason	16,733	3,011	17.99%
Lewis	13,361	3,487	26.10%
Greenup	35,469	5,846	16.48%
Carter	26,567	5,711	21.50%
Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table B17021			

	Total Population	Population Below Poverty	Population Below Poverty (%)
United States	313,048,563	45,650,345	14.58%
Kentucky	4,287,887	783,586	18.27%
BTADD	54,897	11,722	21.35%
Campbell	88,483	12,541	14.17%
Block Group 1, Census Tract 501	282	56	19.86%
Block Group 2, Census Tract 501	1343	942	70.14%
Block Group 2, Census Tract 506	735	296	40.27%
Block Group 1, Census Tract 519.01	2508	103	4.11%
Block Group 3, Census Tract 519.01	1848	94	5.09%
Block Group 1, Census Tract 519.03	1792	326	18.19%
Block Group 3, Census Tract 519.03	1094	344	31.44%
Block Group 1, Census Tract 520.02	1087	70	6.44%
Block Group 2, Census Tract 520.02	915	66	7.21%
Block Group 4, Census Tract 525	2555	500	19.57%
Block Group 1, Census Tract 531	1703	380	22.31%
Block Group 2, Census Tract 531	2985	84	2.81%
Block Group 1, Census Tract 533.01	2105	421	20.00%
Block Group 3, Census Tract 533.01	2255	74	3.28%
Block Group 1, Census Tract 533.02	1544	261	16.90%
Block Group 2, Census Tract 533.02	1291	101	7.82%
Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table B17021			

	Total Population	Population Below Poverty	Population Below Poverty (%)
United States	313,048,563	45,650,345	14.58%
Kentucky	4,287,887	783,586	18.27%
BTADD	54,897	11,722	21.35%
Pendleton	14,345	2,163	15.08%
Block Group 2, Census Tract 9301	1656	82	4.95%
Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table B17021			

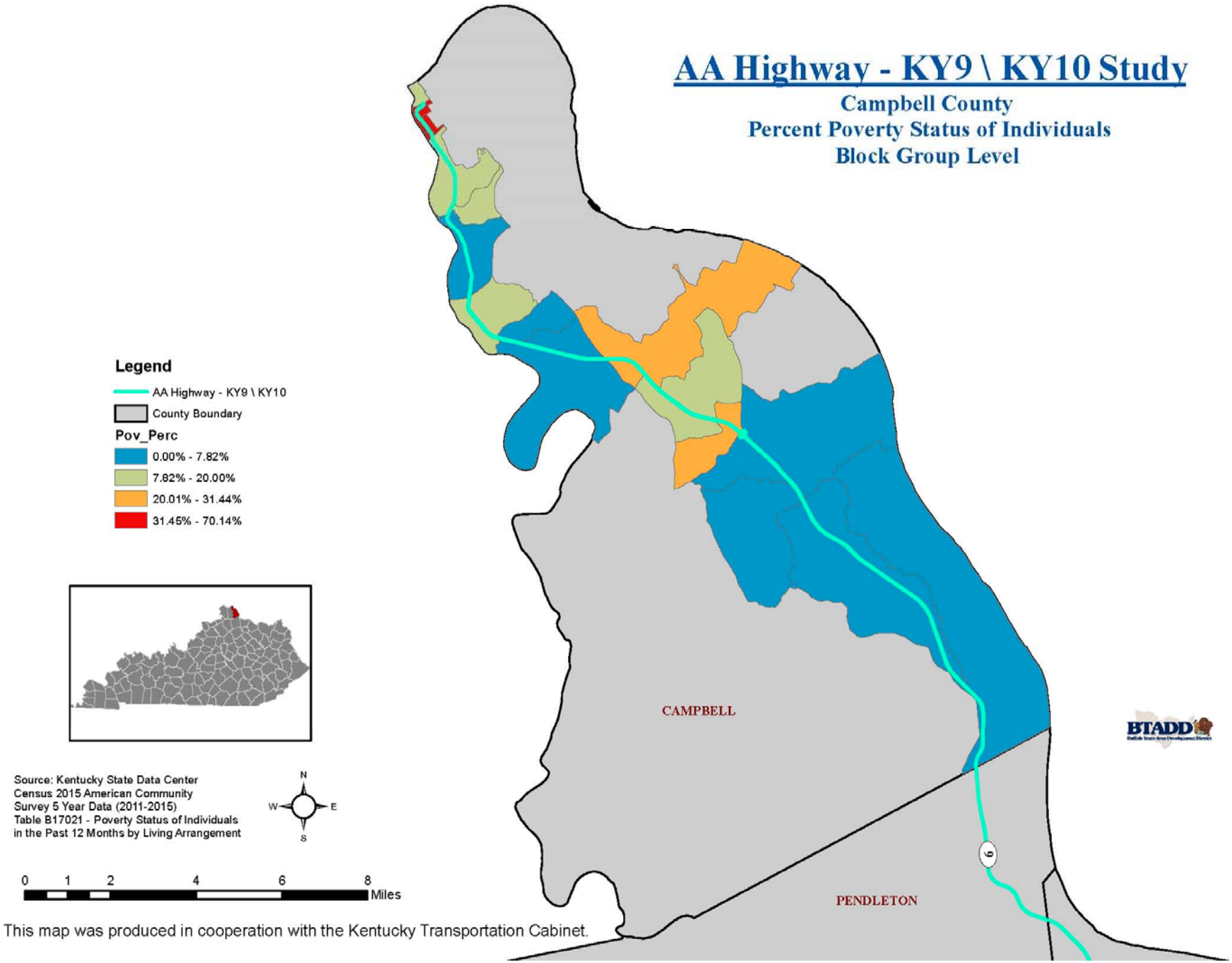
	Total Population	Population Below Poverty	Population Below Poverty (%)
United States	313,048,563	45,650,345	14.58%
Kentucky	4,287,887	783,586	18.27%
BTADD	54,897	11,722	21.35%
Bracken	8,252	1,765	21.39%
Block Group 2, Census Tract 9501	1555	416	26.75%
Block Group 1, Census Tract 9502	845	173	20.47%
Block Group 2, Census Tract 9502	1061	82	7.73%
Block Group 3, Census Tract 9503	886	227	25.62%
Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table B17021			

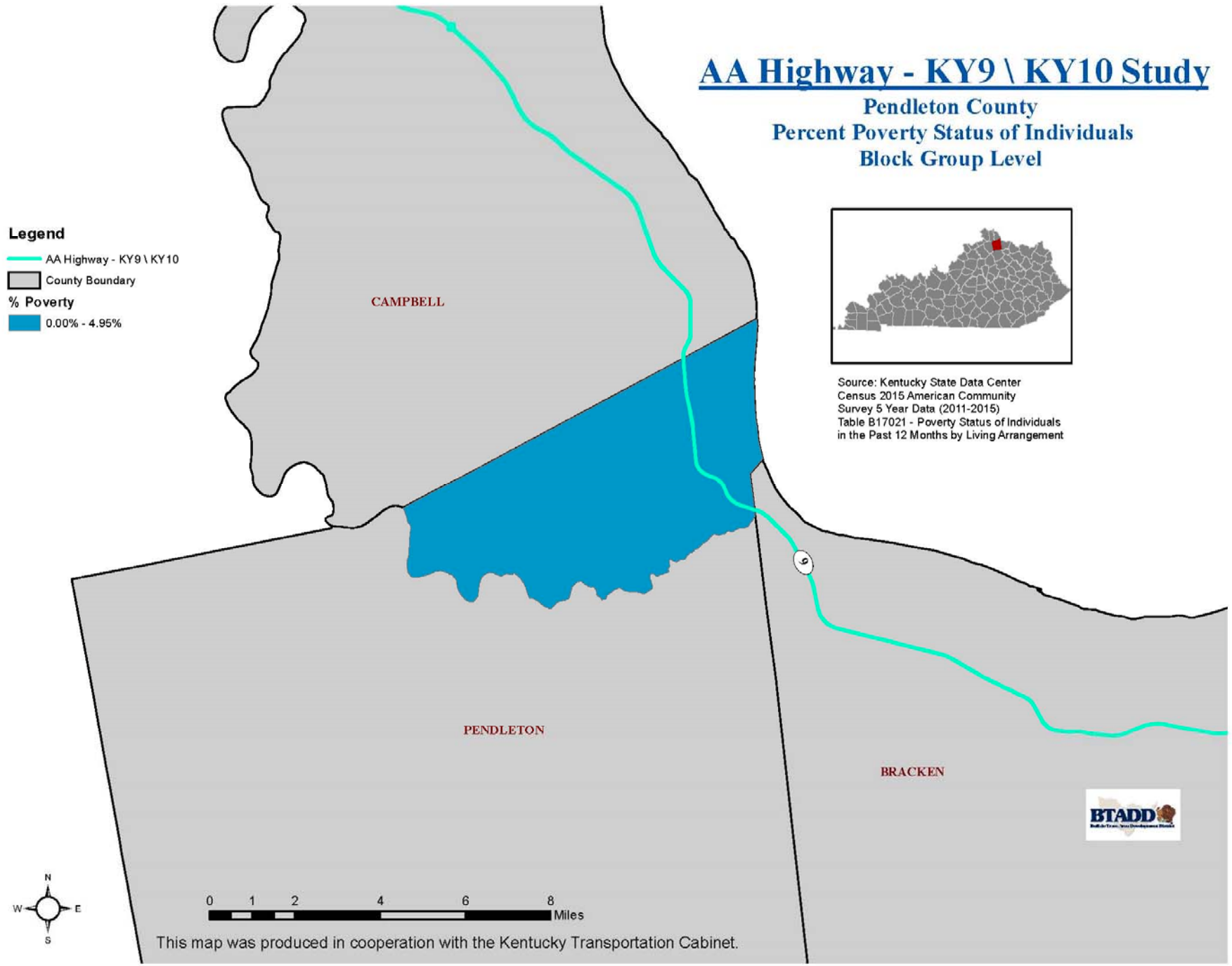
	Total Population	Population Below Poverty	Population Below Poverty (%)
United States	313,048,563	45,650,345	14.58%
Kentucky	4,287,887	783,586	18.27%
BTADD	54,897	11,722	21.35%
Mason	16,733	3,011	17.99%
Block Group 1, Census Tract 9601	1747	518	29.65%
Block Group 2, Census Tract 9601	938	41	4.37%
Block Group 2, Census Tract 9603	1024	120	11.72%
Block Group 1, Census Tract 9604	928	36	3.88%
Block Group 2, Census Tract 9604	735	66	8.98%
Block Group 3, Census Tract 9604	1052	87	8.27%
Block Group 4, Census Tract 9604	1609	235	14.61%
Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table B17021			

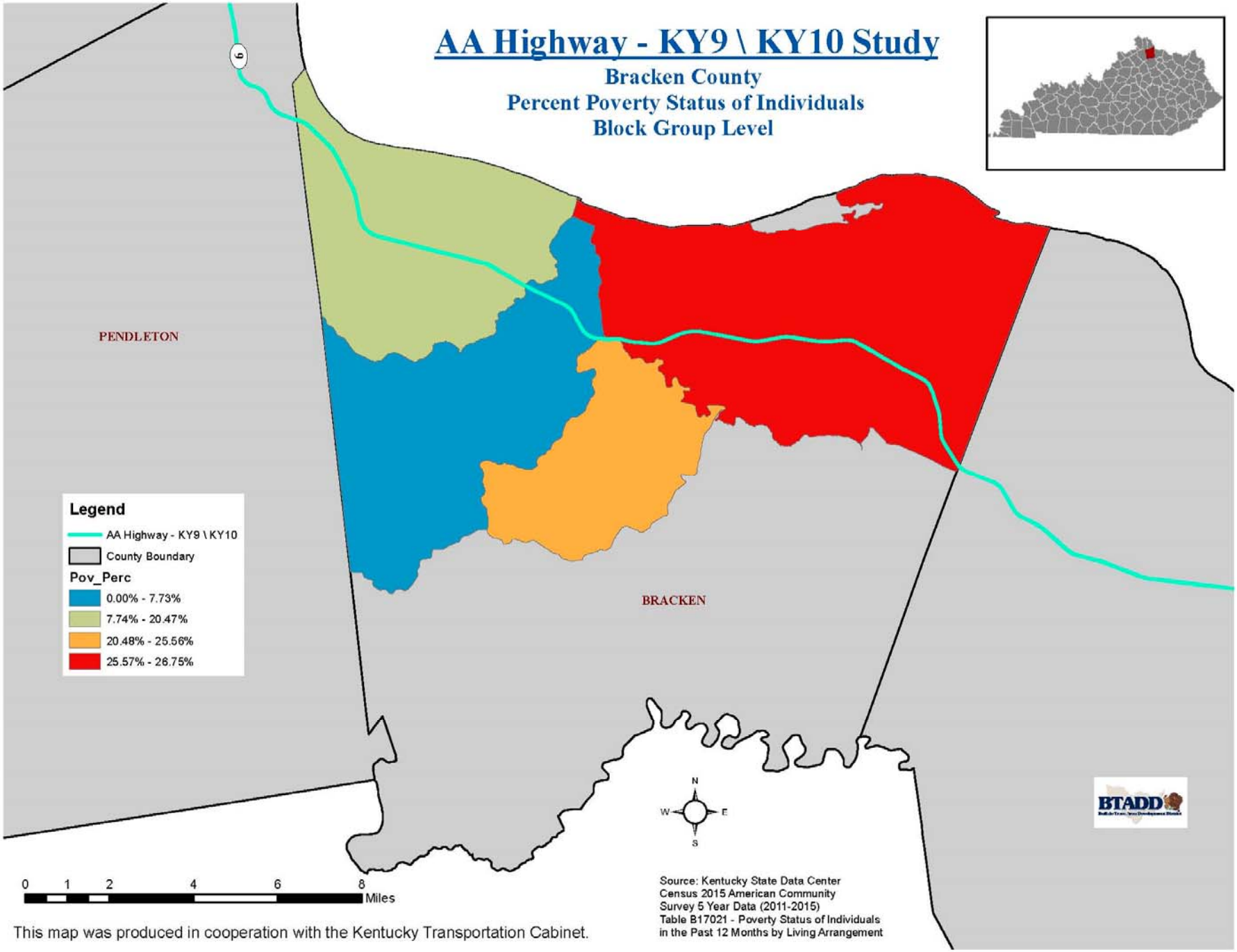
	Total Population	Population Below Poverty	Population Below Poverty (%)
United States	313,048,563	45,650,345	14.58%
Kentucky	4,287,887	783,586	18.27%
BTADD	54,897	11,722	21.35%
Lewis	13,361	3,487	26.10%
Block Group 1, Census Tract 9301	968	270	27.89%
Block Group 2, Census Tract 9301	1620	172	10.62%
Block Group 3, Census Tract 9301	1764	405	22.96%
Block Group 1, Census Tract 9302	2090	503	24.07%
Block Group 2, Census Tract 9302	1181	601	50.89%
Block Group 3, Census Tract 9302	563	249	44.23%
Block Group 2, Census Tract 9303	636	152	23.90%
Block Group 3, Census Tract 9303	1919	444	23.14%
Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table B17021			

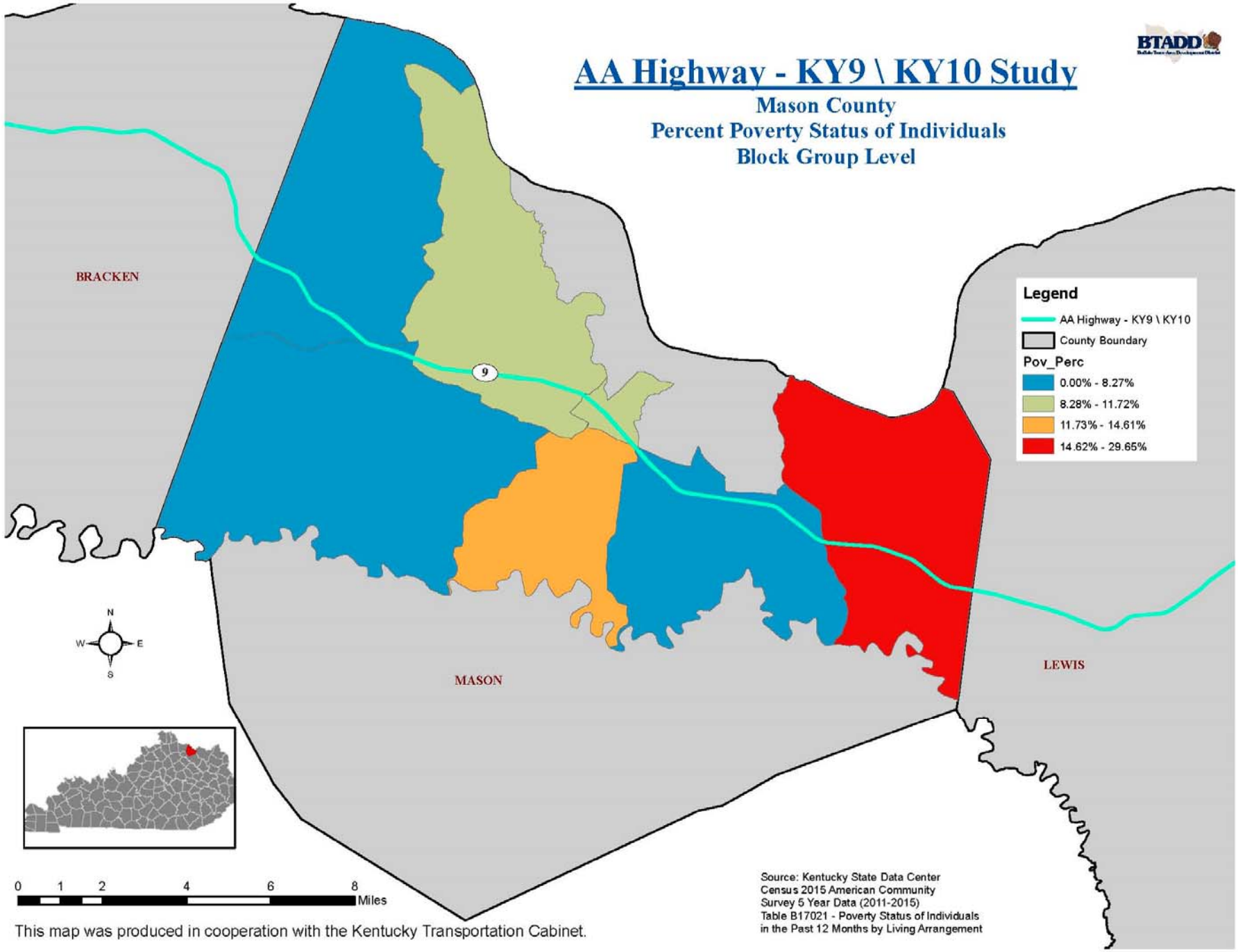
	Total Population	Population Below Poverty	Population Below Poverty (%)
United States	313,048,563	45,650,345	14.58%
Kentucky	4,287,887	783,586	18.27%
BTADD	54,897	11,722	21.35%
Greenup	35,469	5,846	16.48%
Block Group 1, Census Tract 405.01	1628	250	15.36%
Block Group 2, Census Tract 405.01	1631	220	13.49%
Block Group 1, Census Tract 407	1569	170	10.83%
Block Group 2, Census Tract 407	605	159	26.28%
Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table B17021			

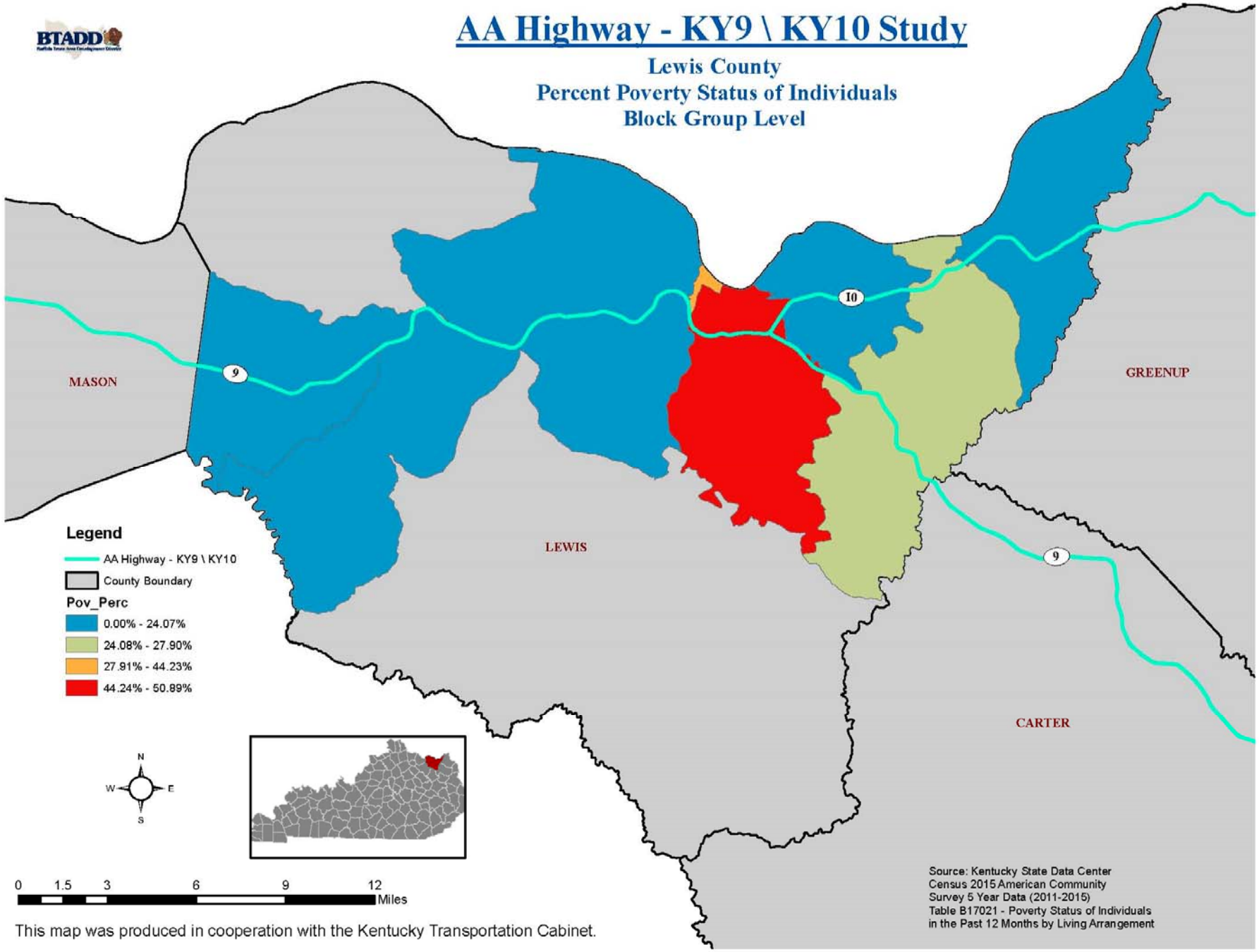
	Total Population	Population Below Poverty	Population Below Poverty (%)
United States	313,048,563	45,650,345	14.58%
Kentucky	4,287,887	783,586	18.27%
BTADD	54,897	11,722	21.35%
Carter	26,567	5,711	21.50%
Block Group 1, Census Tract 9604	1225	260	21.22%
Block Group 2, Census Tract 9605	1395	184	13.19%
Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table B17021			

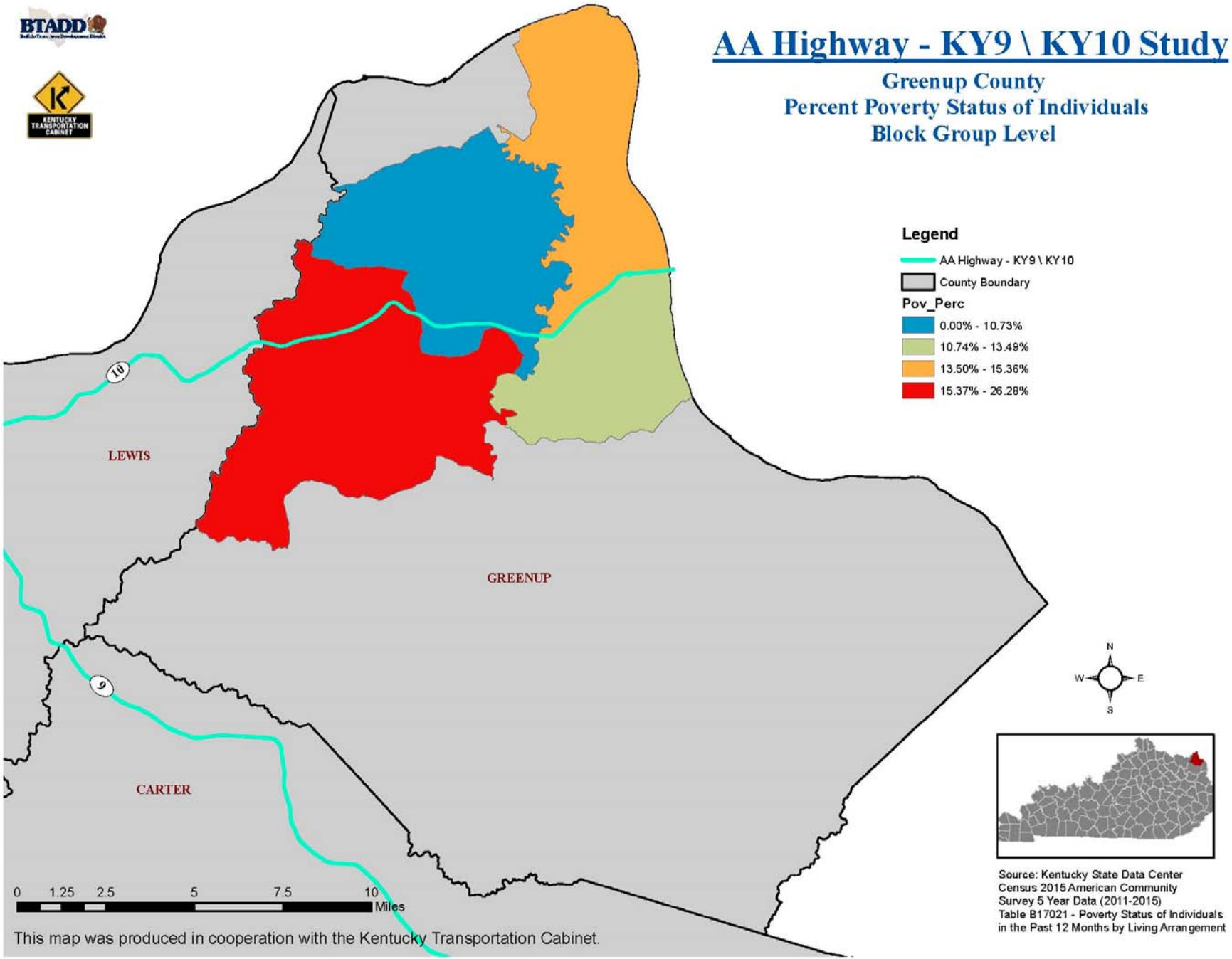

AA Highway - KY9 \ KY10 Study
Campbell County
Percent Poverty Status of Individuals
Block Group Level
Legend
AA Highway - KY9 \ KY10
County Boundary
Pov_Perc
0.00% - 7.82%
7.82% - 20.00%
20.01% - 31.44%
31.45% - 70.14%
CAMPBELL
PENDLETON
BTADD
Source: Kentucky State Data Center
Census 2015 American Community
Survey 5 Year Data (2011-2015)
Table B17021 - Poverty Status of Individuals
in the Past 12 Months by Living Arrangement
N
W
E
S
0 1 2 4 6 8
Miles
This map was produced in cooperation with the Kentucky Transportation Cabinet.

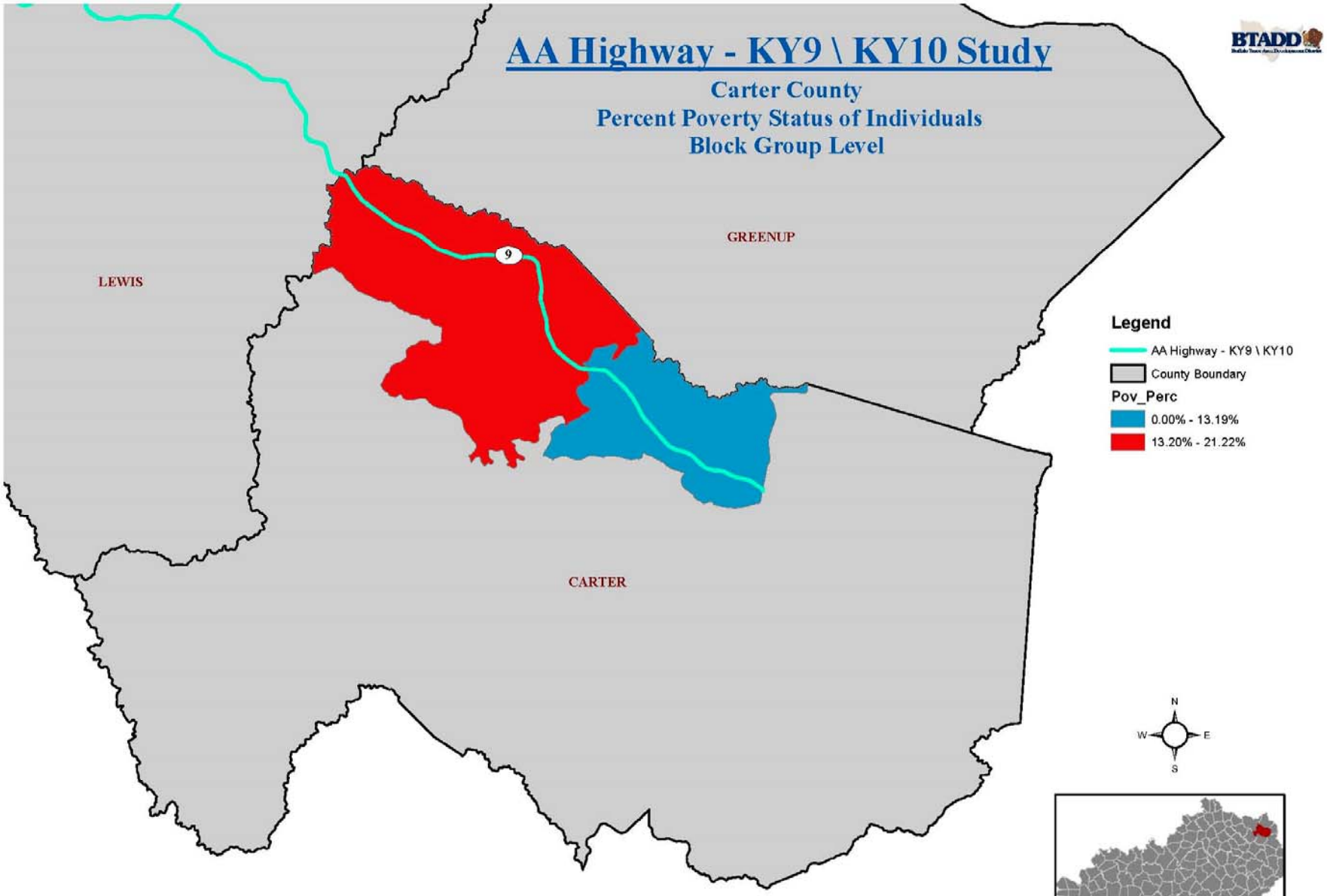

AA Highway - KY9 \ KY10 Study
Pendleton County
Percent Poverty Status of Individuals
Block Group Level
Legend
AA Highway - KY9 \ KY10
County Boundary
% Poverty
0.00% - 4.95%
CAMPBELL
PENDLETON
BRACKEN
9
Source: Kentucky State Data Center
Census 2015 American Community
Survey 5 Year Data (2011-2015)
Table B17021 - Poverty Status of Individuals
in the Past 12 Months by Living Arrangement
BTADD
N
W
E
S
0 1 2 4 6 8
Miles
This map was produced in cooperation with the Kentucky Transportation Cabinet.


AA Highway - KY9 \ KY10 Study
Bracken County
Percent Poverty Status of Individuals
Block Group Level
PENDLETON
BRACKEN
Legend
AA Highway - KY9 \ KY10
County Boundary
Pov_Perc
0.00% - 7.73%
7.74% - 20.47%
20.48% - 25.56%
25.57% - 26.75%
0 1 2 4 6 8
Miles
N
W
E
S
BTADD
Source: Kentucky State Data Center
Census 2015 American Community
Survey 5 Year Data (2011-2015)
Table B17021 - Poverty Status of Individuals
in the Past 12 Months by Living Arrangement
This map was produced in cooperation with the Kentucky Transportation Cabinet.


AA Highway - KY9 \ KY10 Study
Mason County
Percent Poverty Status of Individuals
Block Group Level
BTADD
BRACKEN
MASON
LEWIS
9
Legend
AA Highway - KY9 \ KY10
County Boundary
Pov_Perc
0.00% - 8.27%
8.28% - 11.72%
11.73% - 14.61%
14.62% - 29.65%
N
W
E
S
0 1 2 4 6 8
Miles
This map was produced in cooperation with the Kentucky Transportation Cabinet.
Source: Kentucky State Data Center
Census 2015 American Community
Survey 5 Year Data (2011-2015)
Table B17021 - Poverty Status of Individuals
in the Past 12 Months by Living Arrangement

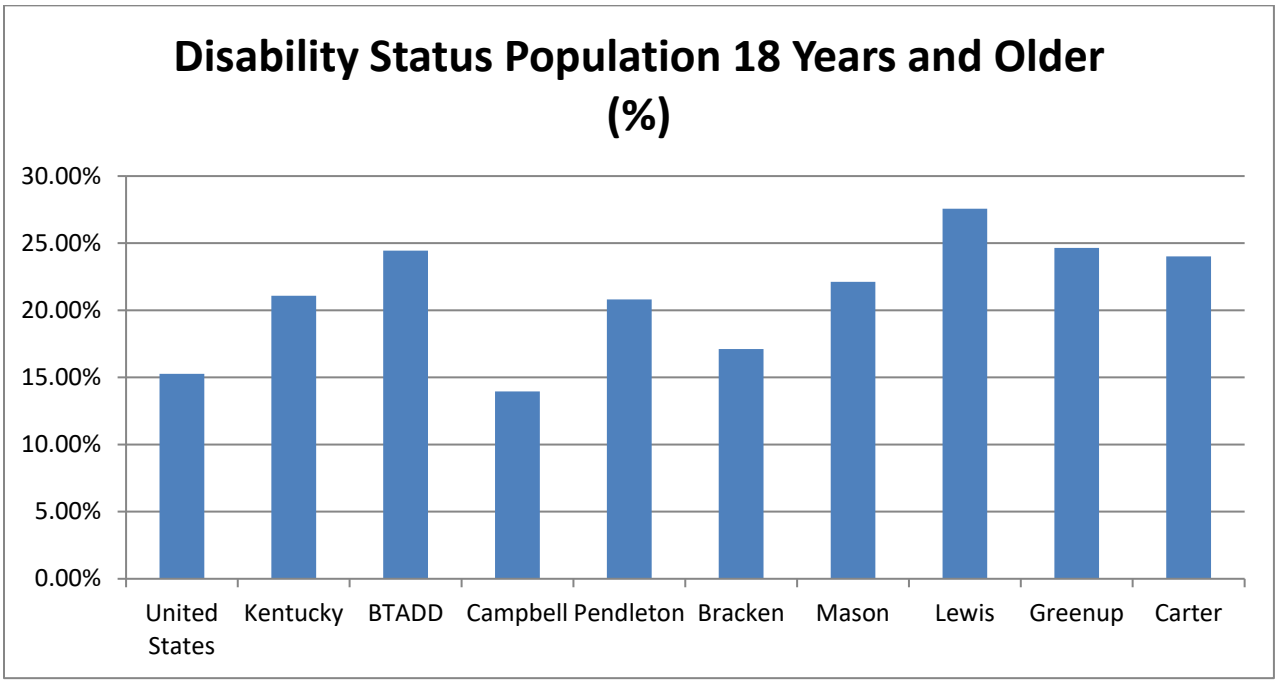

AA Highway - KY9 \ KY10 Study
Lewis County
Percent Poverty Status of Individuals
Block Group Level
MASON
LEWIS
GREENUP
CARTER
9
10
Legend
AA Highway - KY9 \ KY10
County Boundary
Pov_Perc
0.00% - 24.07%
24.08% - 27.90%
27.91% - 44.23%
44.24% - 50.89%
N
W
E
S
0 1.5 3 6 9 12
Miles
This map was produced in cooperation with the Kentucky Transportation Cabinet.
Source: Kentucky State Data Center
Census 2015 American Community
Survey 5 Year Data (2011-2015)
Table B17021 - Poverty Status of Individuals
in the Past 12 Months by Living Arrangement


AA Highway - KY9 \ KY10 Study
Greenup County
Percent Poverty Status of Individuals
Block Group Level
Legend
AA Highway - KY9 \ KY10
County Boundary
Pov_Perc
0.00% - 10.73%
10.74% - 13.49%
13.50% - 15.36%
15.37% - 26.28%
LEWIS
GREENUP
CARTER
10
9
N
W
E
S
0 1.25 2.5 5 7.5 10
Miles
This map was produced in cooperation with the Kentucky Transportation Cabinet.
Source: Kentucky State Data Center
Census 2015 American Community
Survey 5 Year Data (2011-2015)
Table B17021 - Poverty Status of Individuals
in the Past 12 Months by Living Arrangement



This map was produced in cooperation with the Kentucky Transportation Cabinet.

Population by Disability Status



According to 2013-2017 American Community Survey numbers, Kentucky had 21.08% percent of its population age 18 years and older with some type of disability. This is higher than the national percentage (15.26%). Lewis County reported the highest (27.57%) with Campbell County reporting the lowest (13.95%). Lewis County's Block Group (BG) 2 of Census Tract (CT) 9302 also reported the highest in the target areas

	Total Population Age 16-64 Years	Disability Status Population Age 16-64	Disability Status Population 18 Years and Older
United States	239,923,407	36,619,327	15.26%
Kentucky	3,288,295	693,113	21.08%
BTADD	42,103	10,288	24.44%
Campbell	69,088	9,635	13.95%
Pendleton	11,141	2,318	20.81%
Bracken	6,237	1,067	17.11%
Mason	12,837	2,839	22.12%
Lewis	10,404	2,868	27.57%
Greenup	27,792	6,851	24.65%
Carter	20,513	4,927	24.02%
Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table C21007			

	Total Population Age 16-64 Years	Disability Status Population Age 16-64	Disability Status Population 18 Years and Older
United States	239,923,407	36,619,327	15.26%
Kentucky	3,288,295	693,113	21.08%
BTADD	42,103	10,288	24.44%
Campbell	69,088	9,635	13.95%
Block Group 1, Census Tract 501	251	17	6.77%
Block Group 2, Census Tract 501	895	216	24.13%
Block Group 2, Census Tract 506	534	163	30.52%
Block Group 1, Census Tract 519.01	1899	159	8.37%
Block Group 3, Census Tract 519.01	1359	199	14.64%
Block Group 1, Census Tract 519.03	1213	72	5.94%
Block Group 3, Census Tract 519.03	955	144	15.08%
Block Group 1, Census Tract 520.02	810	73	9.01%
Block Group 2, Census Tract 520.02	737	132	17.91%
Block Group 4, Census Tract 525	1870	224	11.98%
Block Group 1, Census Tract 531	1310	201	15.34%
Block Group 2, Census Tract 531	2418	380	15.72%
Block Group 1, Census Tract 533.01	1937	265	13.68%
Block Group 3, Census Tract 533.01	1722	226	13.12%
Block Group 1, Census Tract 533.02	1361	187	13.74%
Block Group 2, Census Tract 533.02	1107	113	10.21%

Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table C21007

	Total Population Age 16-64 Years	Disability Status Population Age 16-64	Disability Status Population 18 Years and Older
United States	239,923,407	36,619,327	15.26%
Kentucky	3,288,295	693,113	21.08%
BTADD	42,103	10,288	24.44%
Pendleton	11,141	2,318	20.81%
Block Group 2, Census Tract 9301	1258	116	9.22%

Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table C21007

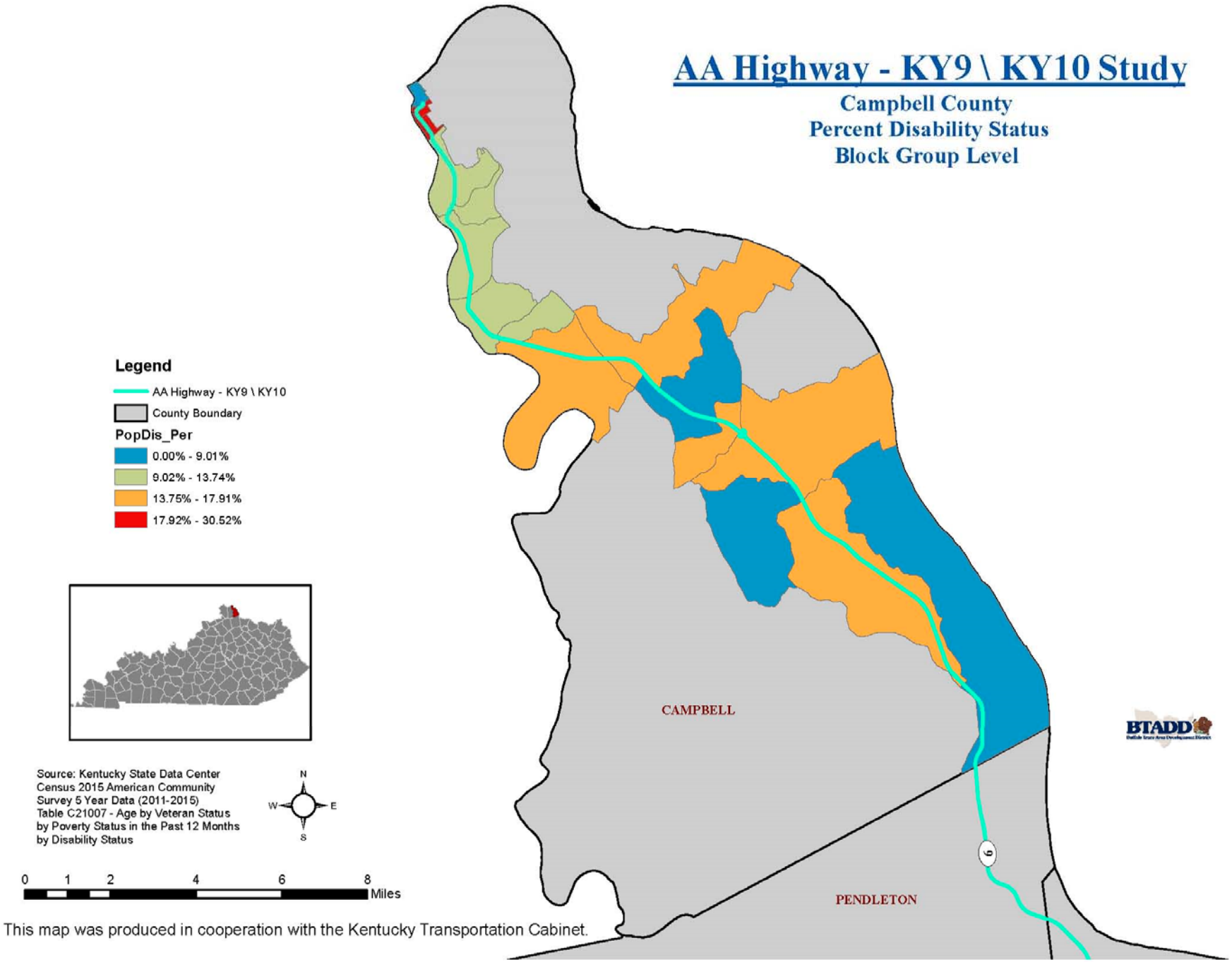
	Total Population Age 16-64 Years	Disability Status Population Age 16-64	Disability Status Population 18 Years and Older
United States	239,923,407	36,619,327	15.26%
Kentucky	3,288,295	693,113	21.08%
BTADD	42,103	10,288	24.44%
Bracken	6,237	1,067	17.11%
Block Group 2, Census Tract 9501	1125	183	16.27%
Block Group 1, Census Tract 9502	656	128	19.51%
Block Group 2, Census Tract 9502	806	116	14.39%
Block Group 3, Census Tract 9503	714	191	26.75%
Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table C21007			

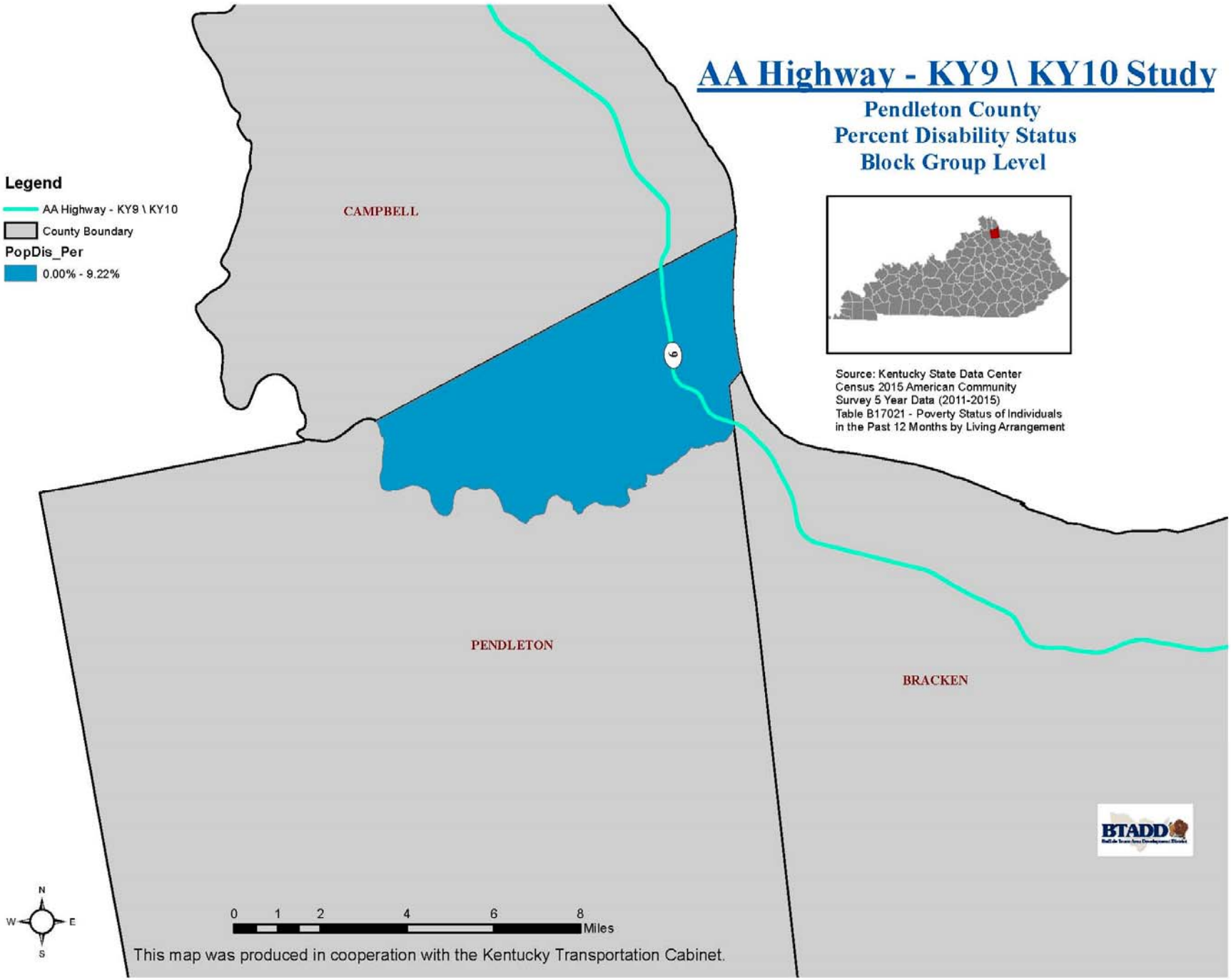
	Total Population Age 16-64 Years	Disability Status Population Age 16-64	Disability Status Population 18 Years and Older
United States	239,923,407	36,619,327	15.26%
Kentucky	3,288,295	693,113	21.08%
BTADD	42,103	10,288	24.44%
Mason	12,837	2,839	22.12%
Block Group 1, Census Tract 9601	1363	368	27.00%
Block Group 2, Census Tract 9601	727	139	19.12%
Block Group 2, Census Tract 9603	886	205	23.14%
Block Group 1, Census Tract 9604	747	119	15.93%
Block Group 2, Census Tract 9604	610	72	11.80%
Block Group 3, Census Tract 9604	743	60	8.08%
Block Group 4, Census Tract 9604	1124	198	17.62%
Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table C21007			

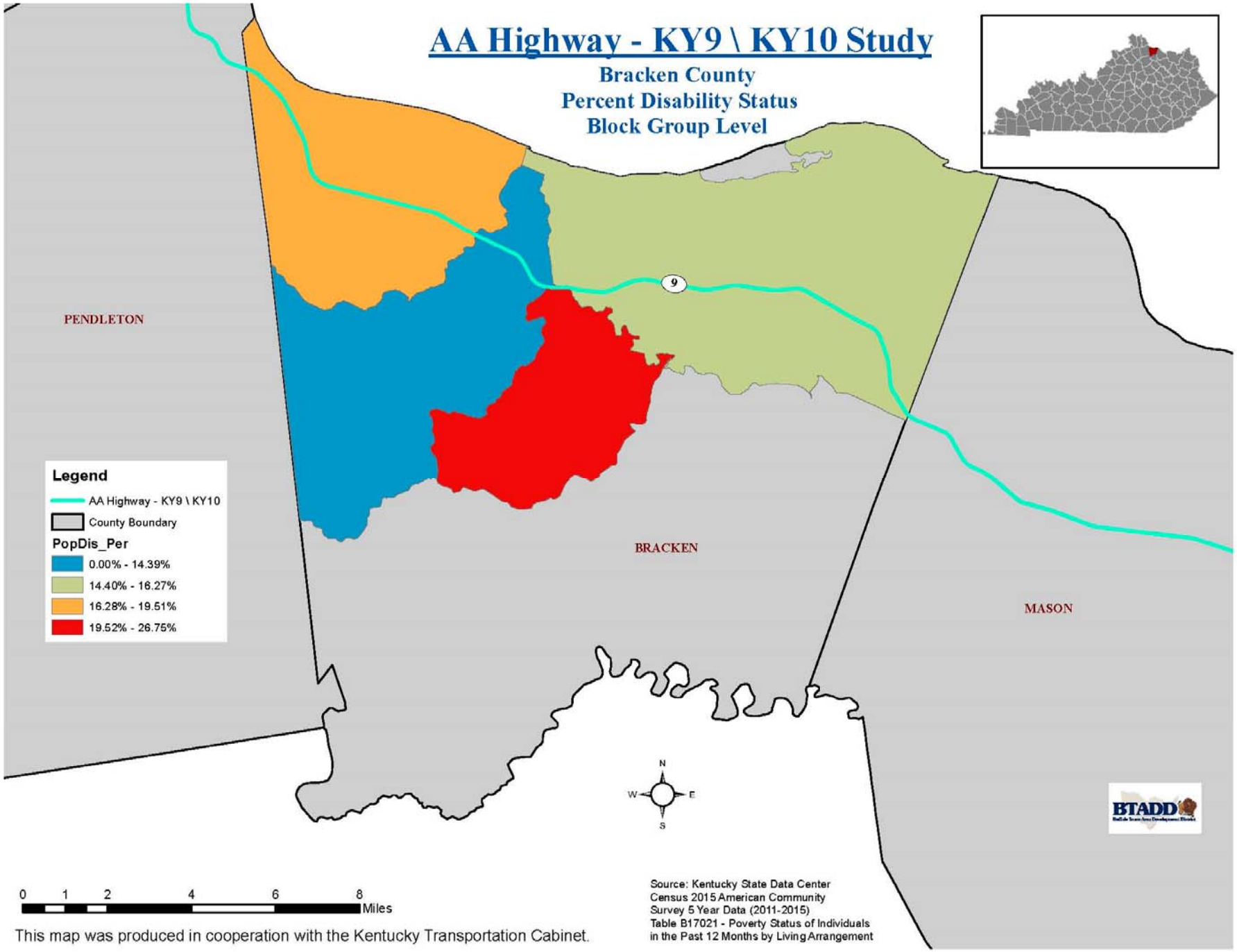
	Total Population Age 16-64 Years	Disability Status Population Age 16-64	Disability Status Population 18 Years and Older
United States	239,923,407	36,619,327	15.26%
Kentucky	3,288,295	693,113	21.08%
BTADD	42,103	10,288	24.44%
Lewis	10,404	2,868	27.57%
Block Group 1, Census Tract 9301	782	225	28.77%
Block Group 2, Census Tract 9301	1322	302	22.84%
Block Group 3, Census Tract 9301	1333	363	27.23%
Block Group 1, Census Tract 9302	1550	460	29.68%
Block Group 2, Census Tract 9302	911	428	46.98%
Block Group 3, Census Tract 9302	464	189	40.73%
Block Group 2, Census Tract 9303	546	116	21.25%
Block Group 3, Census Tract 9303	1376	271	19.69%
Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table C21007			

	Total Population Age 16-64 Years	Disability Status Population Age 16-64	Disability Status Population 18 Years and Older
United States	239,923,407	36,619,327	15.26%
Kentucky	3,288,295	693,113	21.08%
BTADD	42,103	10,288	24.44%
Greenup	27,792	6,851	24.65%
Block Group 1, Census Tract 405.01	1307	409	31.29%
Block Group 2, Census Tract 405.01	1198	320	26.71%
Block Group 1, Census Tract 407	1145	251	21.92%
Block Group 2, Census Tract 407	461	130	28.20%
Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table C21007			

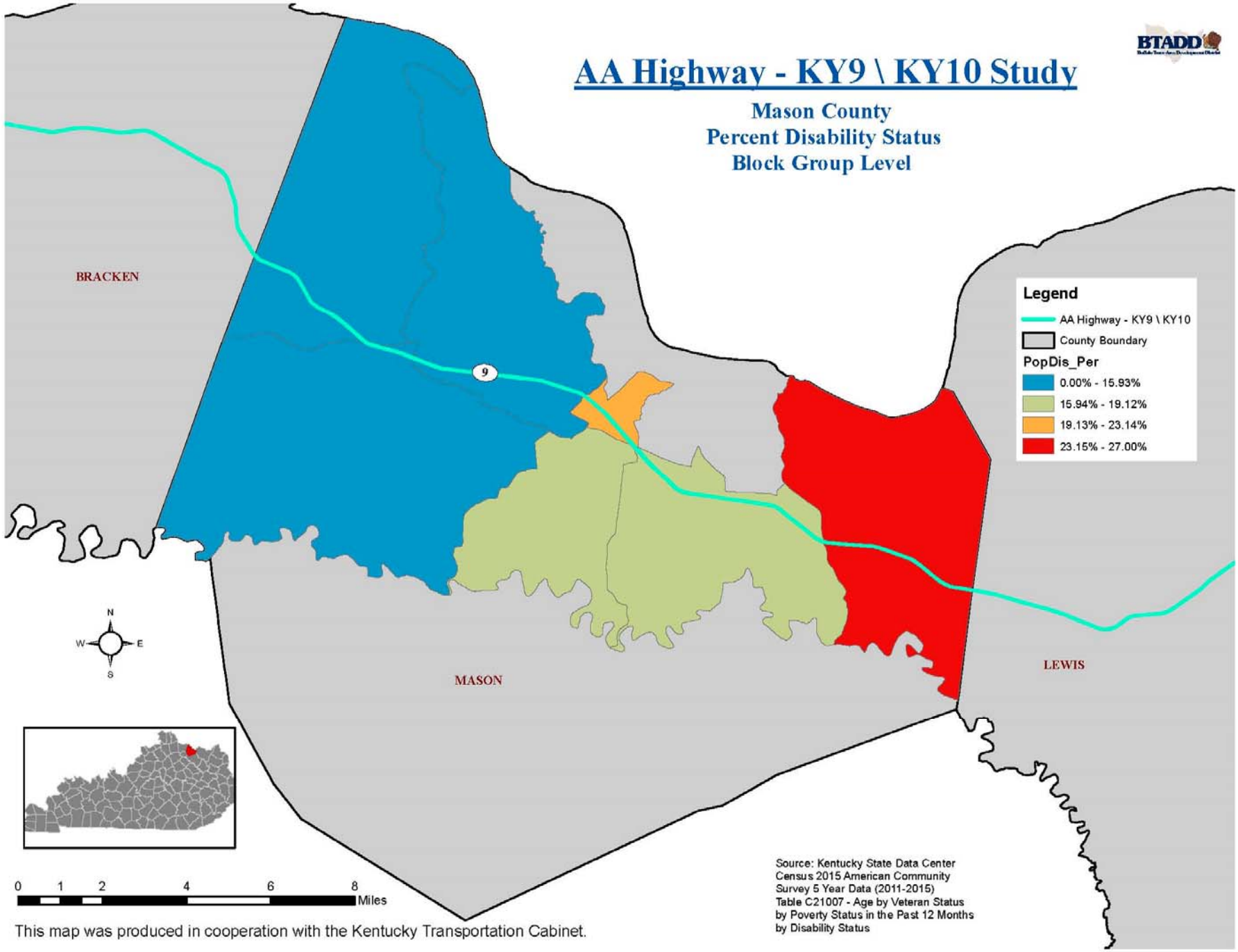
	Total Population Age 16-64 Years	Disability Status Population Age 16-64	Disability Status Population 18 Years and Older
United States	239,923,407	36,619,327	15.26%
Kentucky	3,288,295	693,113	21.08%
BTADD	42,103	10,288	24.44%
Carter	20,513	4,927	24.02%
Block Group 1, Census Tract 9604	926	285	30.78%
Block Group 2, Census Tract 9605	1,021	190	18.61%
Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table C21007			

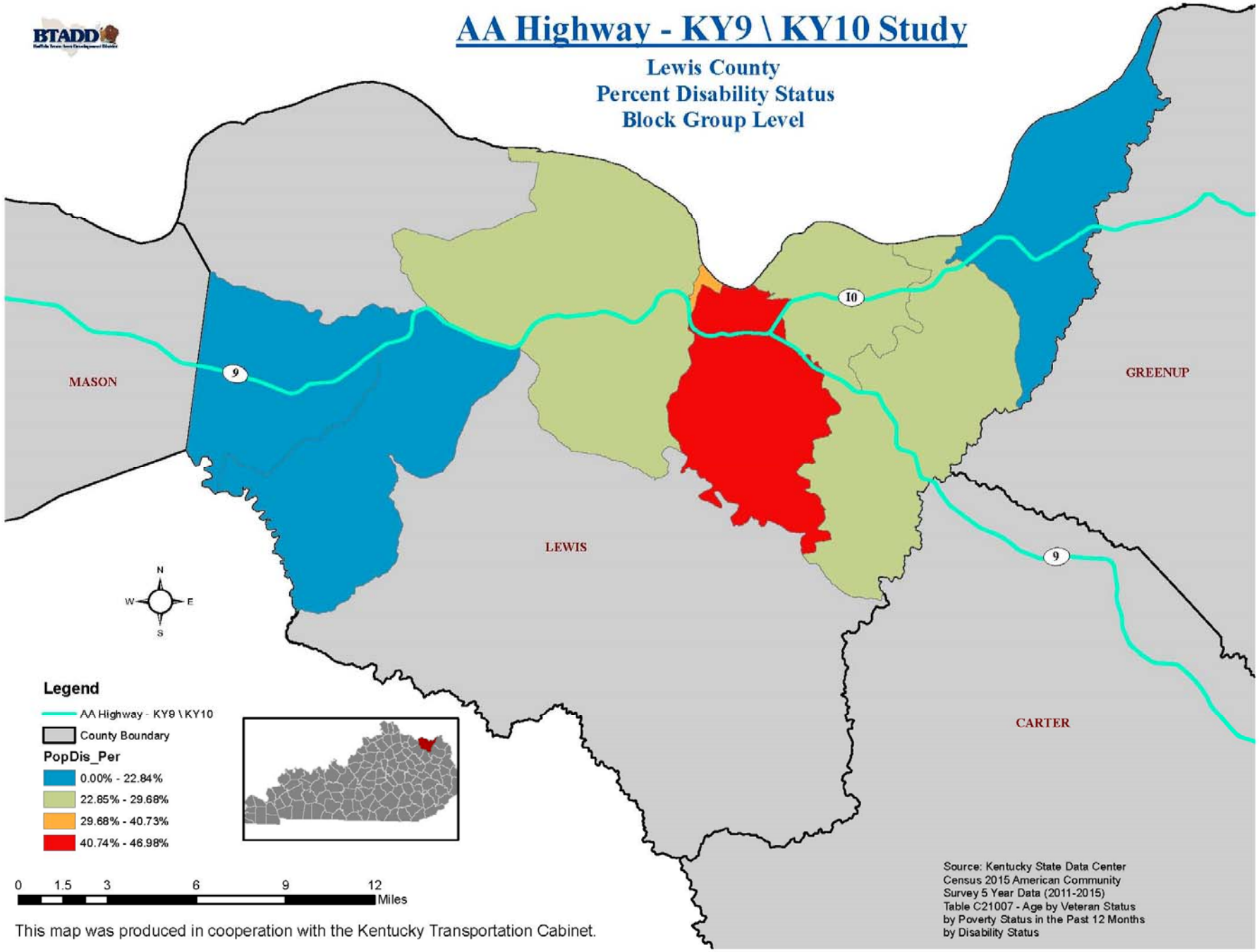

AA Highway - KY9 \ KY10 Study
Campbell County
Percent Disability Status
Block Group Level
Legend
AA Highway - KY9 \ KY10
County Boundary
PopDis_Per
0.00% - 9.01%
9.02% - 13.74%
13.75% - 17.91%
17.92% - 30.52%
CAMPBELL
PENDLETON
BTADD
Source: Kentucky State Data Center
Census 2015 American Community
Survey 5 Year Data (2011-2015)
Table C21007 - Age by Veteran Status
by Poverty Status in the Past 12 Months
by Disability Status
N
W
E
S
0 1 2 4 6 8
Miles
This map was produced in cooperation with the Kentucky Transportation Cabinet.

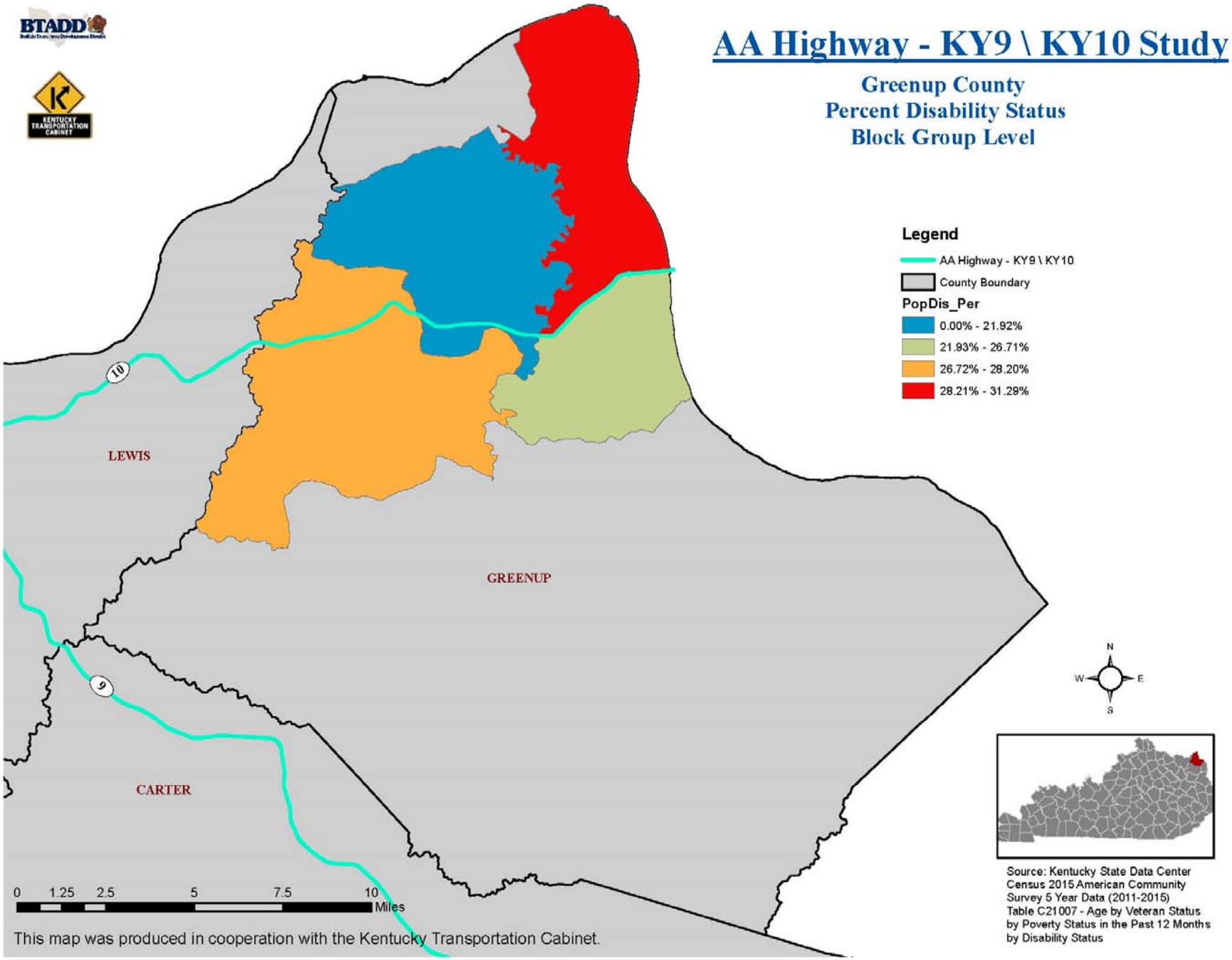

AA Highway - KY9 \ KY10 Study
Pendleton County
Percent Disability Status
Block Group Level
Legend
AA Highway - KY9 \ KY10
County Boundary
PopDis_Per
0.00% - 9.22%
CAMPBELL
PENDLETON
BRACKEN
9
Source: Kentucky State Data Center
Census 2015 American Community
Survey 5 Year Data (2011-2015)
Table B17021 - Poverty Status of Individuals
in the Past 12 Months by Living Arrangement
BTADD
N
W
E
S
0 1 2 4 6 8
Miles
This map was produced in cooperation with the Kentucky Transportation Cabinet.

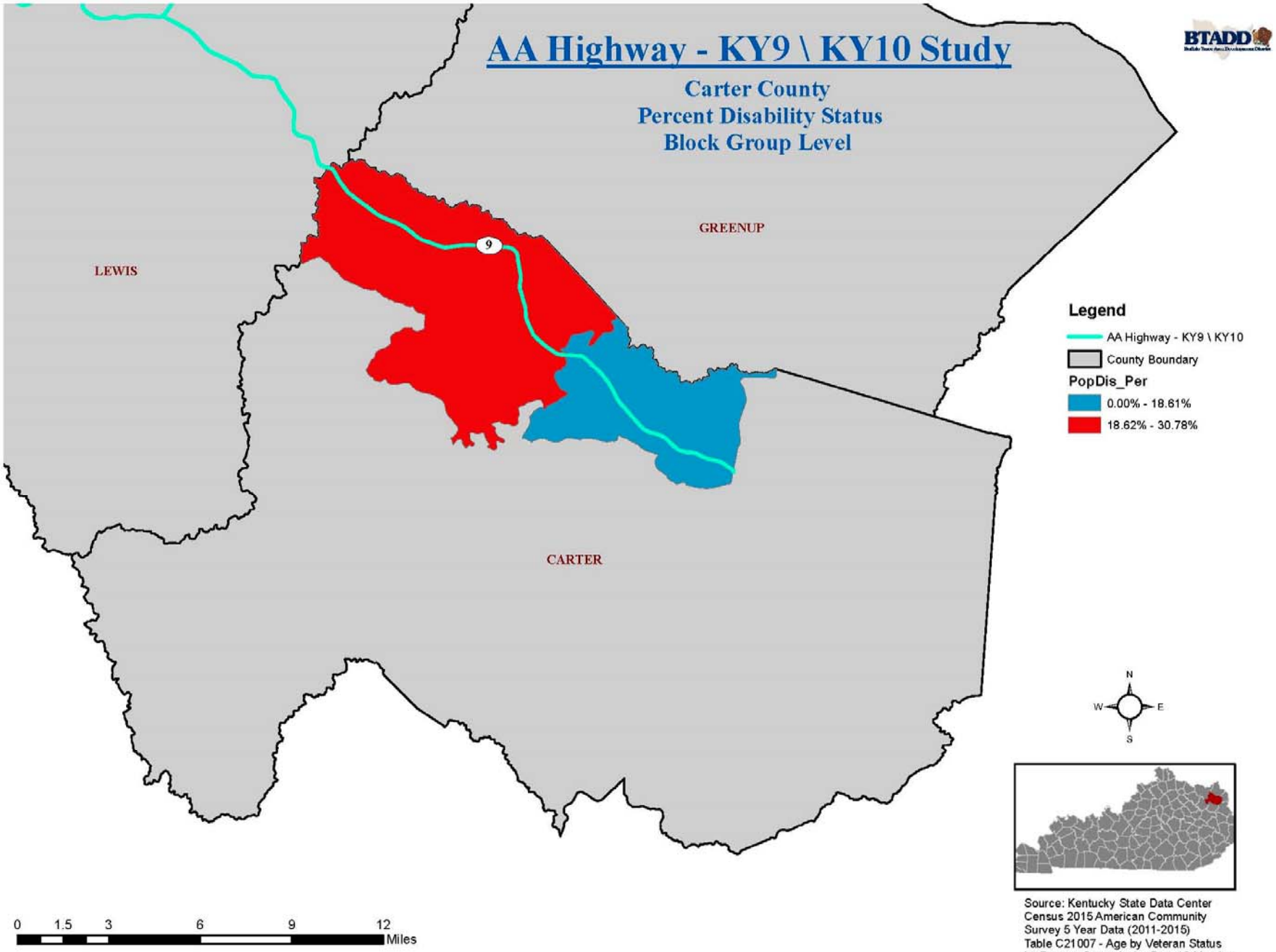


This map was produced in cooperation with the Kentucky Transportation Cabinet.

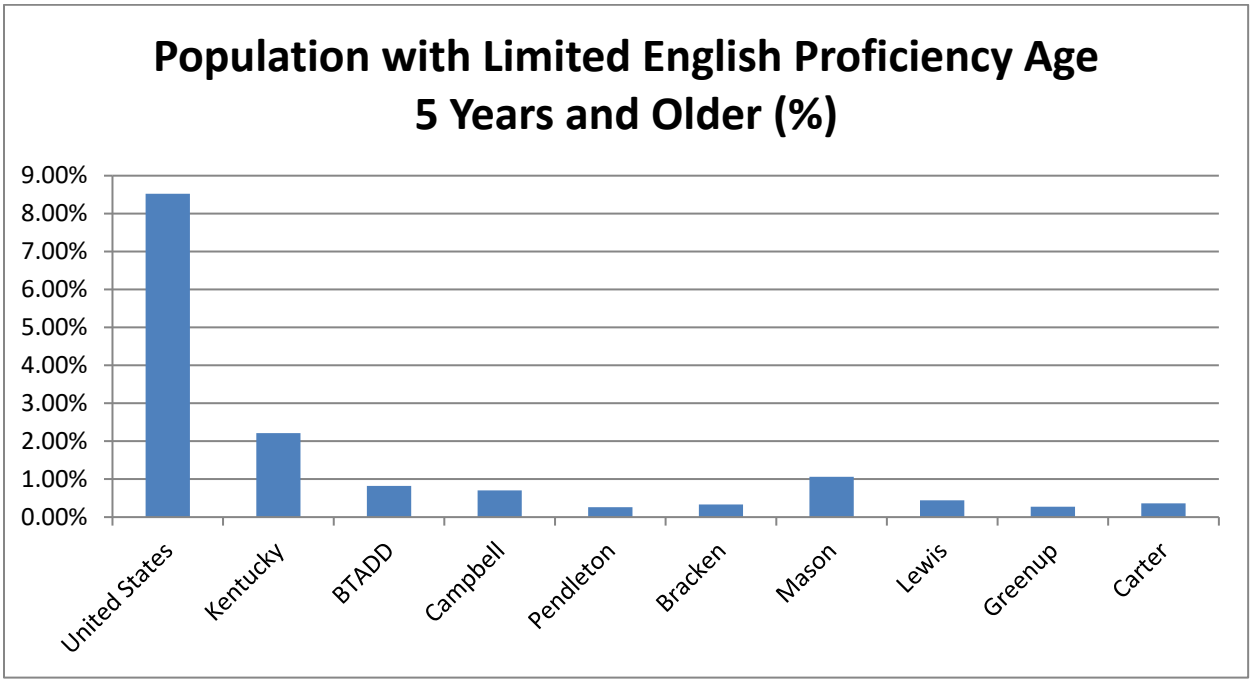

AA Highway - KY9 \ KY10 Study
Mason County
Percent Disability Status
Block Group Level
BTADD
BRACKEN
MASON
LEWIS
9
Legend
AA Highway - KY9 \ KY10
County Boundary
PopDis_Per
0.00% - 15.93%
15.94% - 19.12%
19.13% - 23.14%
23.15% - 27.00%
N
W
E
S
0 1 2 4 6 8
Miles
This map was produced in cooperation with the Kentucky Transportation Cabinet.
Source: Kentucky State Data Center
Census 2015 American Community
Survey 5 Year Data (2011-2015)
Table C21007 - Age by Veteran Status
by Poverty Status in the Past 12 Months
by Disability Status


AA Highway - KY9 \ KY10 Study
Lewis County
Percent Disability Status
Block Group Level
MASON
LEWIS
GREENUP
CARTER
9
10
N
W
E
S
Legend
AA Highway - KY9 \ KY10
County Boundary
PopDis_Per
0.00% - 22.84%
22.85% - 29.68%
29.68% - 40.73%
40.74% - 46.98%
0 1.5 3 6 9 12
Miles
This map was produced in cooperation with the Kentucky Transportation Cabinet.
Source: Kentucky State Data Center
Census 2015 American Community
Survey 5 Year Data (2011-2015)
Table C21007 - Age by Veteran Status
by Poverty Status in the Past 12 Months
by Disability Status


AA Highway - KY9 \ KY10 Study
Greenup County
Percent Disability Status
Block Group Level
Legend
AA Highway - KY9 \ KY10
County Boundary
PopDis_Per
0.00% - 21.92%
21.93% - 26.71%
26.72% - 28.20%
28.21% - 31.29%
LEWIS
GREENUP
CARTER
10
9
N
W
E
S
0 1.25 2.5 5 7.5 10
Miles
This map was produced in cooperation with the Kentucky Transportation Cabinet.
Source: Kentucky State Data Center
Census 2015 American Community
Survey 5 Year Data (2011-2015)
Table C21007 - Age by Veteran Status
by Poverty Status in the Past 12 Months
by Disability Status


AA Highway - KY9 \ KY10 Study
Carter County
Percent Disability Status
Block Group Level
BTADD
GREENUP
LEWIS
CARTER
9
Legend
AA Highway - KY9 \ KY10
County Boundary
PopDis_Per
0.00% - 18.61%
18.62% - 30.78%
N
W
E
S
0 1.5 3 6 9 12
Miles
This map was produced in cooperation with the Kentucky Transportation Cabinet.
Source: Kentucky State Data Center
Census 2015 American Community
Survey 5 Year Data (2011-2015)
Table C21007 - Age by Veteran Status
by Poverty Status in the Past 12 Months
by Disability Status

Population by Persons with Limited English Proficiency



Persons with Limited English Proficiency (LEP) in the United States make up 8.52% of the population, but in Kentucky that percentage decreases to just 2.21%. The BTADD Region has an even lower percentage of persons with LEP than that of the state and United States with 0.82% being reported for the region. All the AA Highway counties report lower than the state average as well with the exceptions of a few target areas. Block Group (BG) 1 and 2 for Census Tract (CT) 501 and Block Group (BG) 1 Census Tract 533.01 in Campbell County and Block Group (BG) 2 Census Tract (CT) 9603 and Block Group (BG) 4 Census Tract (CT) 9604 in Mason County.

	Total Population Age 5 Years and Older	Population with Limited English Proficiency Age 5 Years and Older	Population with Limited English Proficiency Age 5 Years and Older (%)
United States	301,150,892	25,654,421	8.52%
Kentucky	4,150,236	91,813	2.21%
BTADD	52,234	427	0.82%
Campbell	86,457	605	0.70%
Pendleton	13,732	36	0.26%
Bracken	7,781	26	0.33%
Mason	16,104	170	1.06%
Lewis	12,805	56	0.44%
Greenup	34,068	93	0.27%
Carter	25,712	93	0.36%
Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table B16004			

	Total Population Age 5 Years and Older	Population with Limited English Proficiency Age 5 Years and Older	Population with Limited English Proficiency Age 5 Years and Older (%)
United States	301,150,892	25,654,421	8.52%
Kentucky	4,150,236	91,813	2.21%
BTADD	52,234	427	0.82%
Campbell	86,457	605	0.70%
Block Group 1, Census Tract 501	282	21	7.45%
Block Group 2, Census Tract 501	1182	39	3.30%
Block Group 2, Census Tract 506	655	5	0.76%
Block Group 1, Census Tract 519.01	2417	0	0.00%
Block Group 3, Census Tract 519.01	1651	0	0.00%
Block Group 1, Census Tract 519.03	1643	0	0.00%
Block Group 3, Census Tract 519.03	1094	0	0.00%
Block Group 1, Census Tract 520.02	1064	0	0.00%
Block Group 2, Census Tract 520.02	813	0	0.00%
Block Group 4, Census Tract 525	2432	28	1.15%
Block Group 1, Census Tract 531	1563	0	0.00%
Block Group 2, Census Tract 531	2780	0	0.00%
Block Group 1, Census Tract 533.01	2074	83	4.00%
Block Group 3, Census Tract 533.01	2138	8	0.37%
Block Group 1, Census Tract 533.02	1551	0	0.00%
Block Group 2, Census Tract 533.02	1210	0	0.00%
Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table B16004			

	Total Population Age 5 Years and Older	Population with Limited English Proficiency Age 5 Years and Older	Population with Limited English Proficiency Age 5 Years and Older (%)
United States	301,150,892	25,654,421	8.52%
Kentucky	4,150,236	91,813	2.21%
BTADD	52,234	427	0.82%
Pendleton	13,732	36	0.26%
Block Group 2, Census Tract 9301	1,501	0	0.00%
Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table B16004			

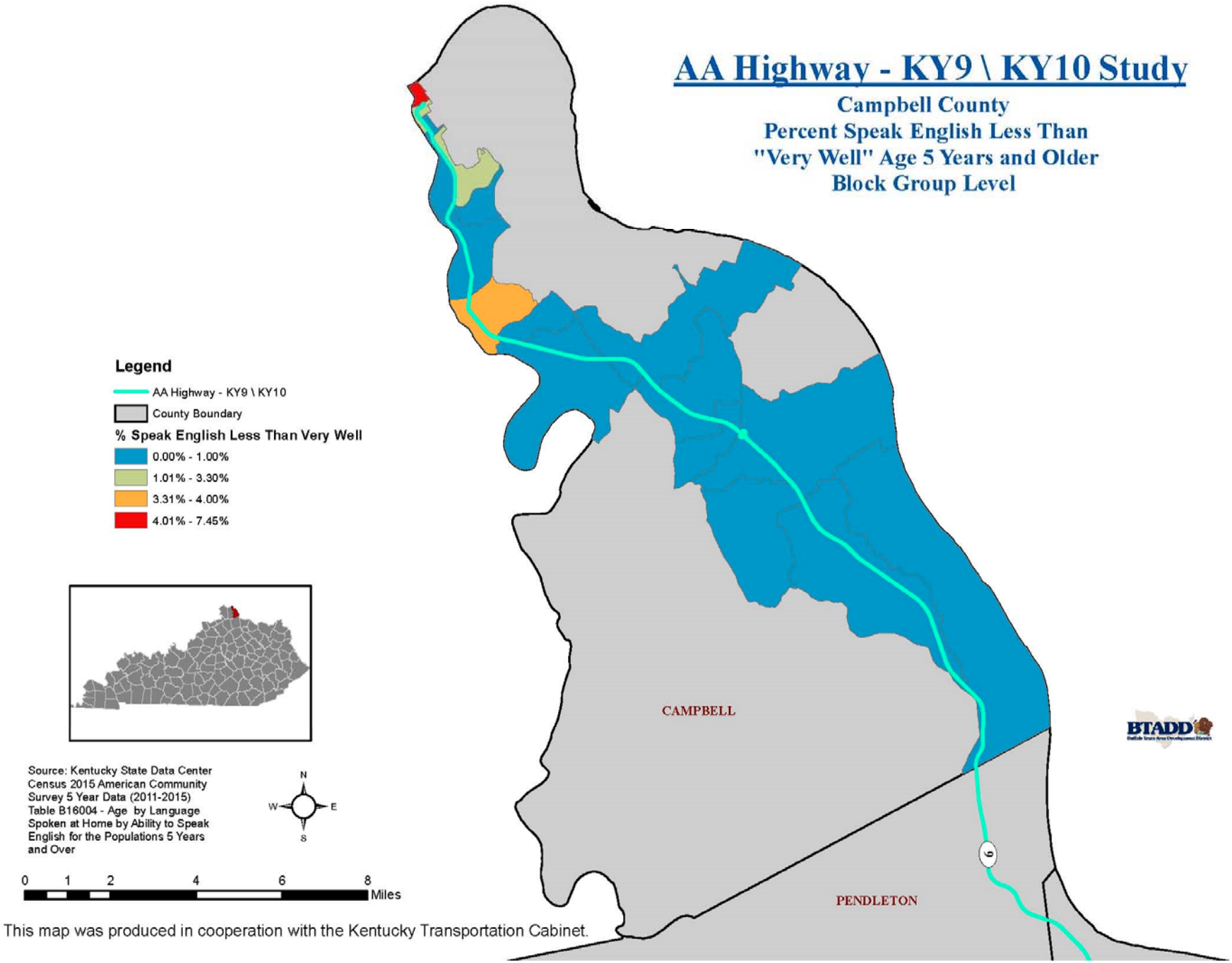
	Total Population Age 5 Years and Older	Population with Limited English Proficiency Age 5 Years and Older	Population with Limited English Proficiency Age 5 Years and Older (%)
United States	301,150,892	25,654,421	8.52%
Kentucky	4,150,236	91,813	2.21%
BTADD	52,234	427	0.82%
Bracken	7,781	26	0.33%
Block Group 2, Census Tract 9501	1456	25	1.72%
Block Group 1, Census Tract 9502	804	0	0.00%
Block Group 2, Census Tract 9502	985	0	0.00%
Block Group 3, Census Tract 9503	859	1	0.12%
Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table B16004			

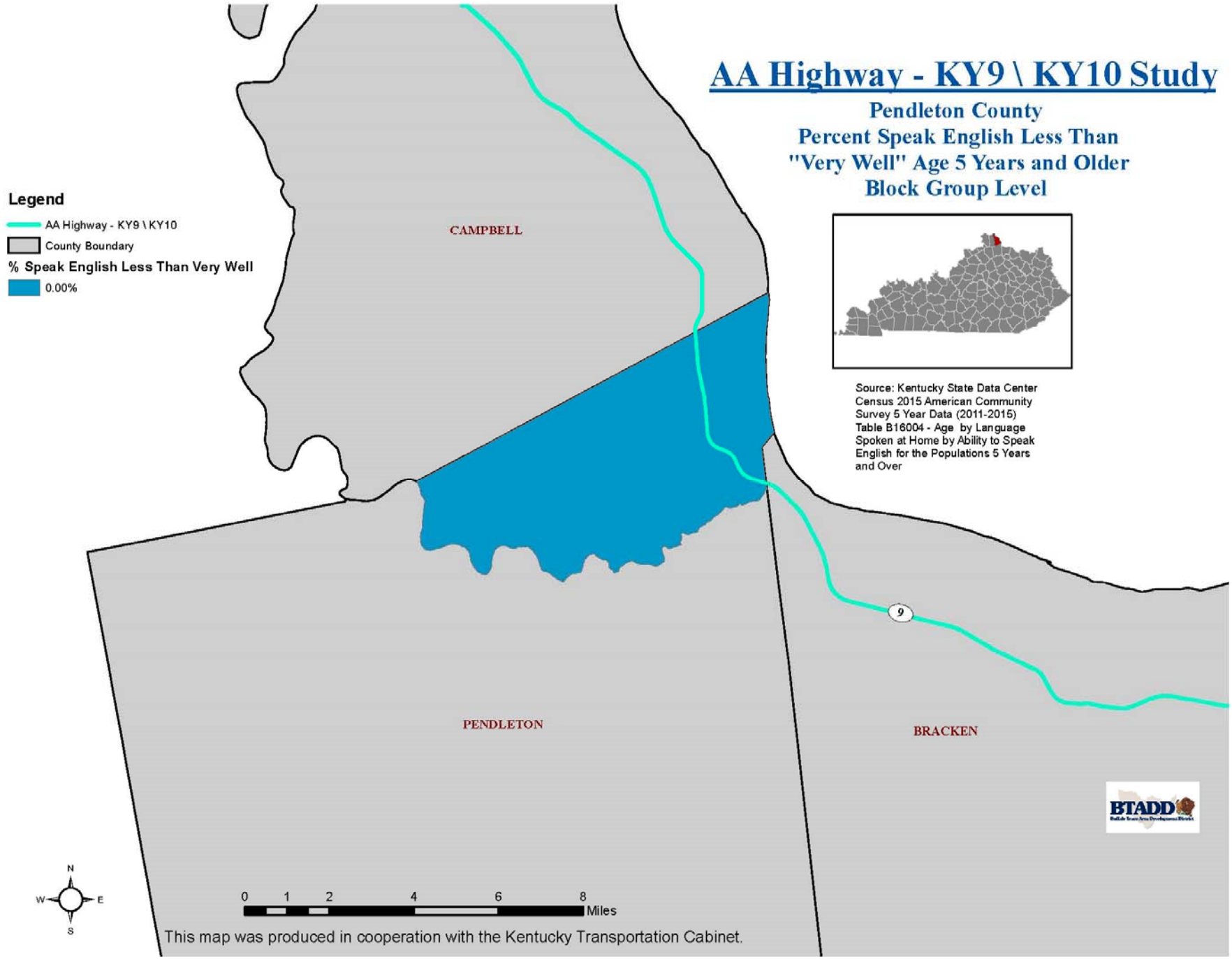
	Total Population Age 5 Years and Older	Population with Limited English Proficiency Age 5 Years and Older	Population with Limited English Proficiency Age 5 Years and Older (%)
United States	301,150,892	25,654,421	8.52%
Kentucky	4,150,236	91,813	2.21%
BTADD	52,234	427	0.82%
Mason	16,104	170	1.06%
Block Group 1, Census Tract 9601	1714	0	0.00%
Block Group 2, Census Tract 9601	900	0	0.00%
Block Group 2, Census Tract 9603	1142	76	6.65%
Block Group 1, Census Tract 9604	857	0	0.00%
Block Group 2, Census Tract 9604	701	0	0.00%
Block Group 3, Census Tract 9604	949	0	0.00%
Block Group 4, Census Tract 9604	1532	68	4.44%
Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table B16004			

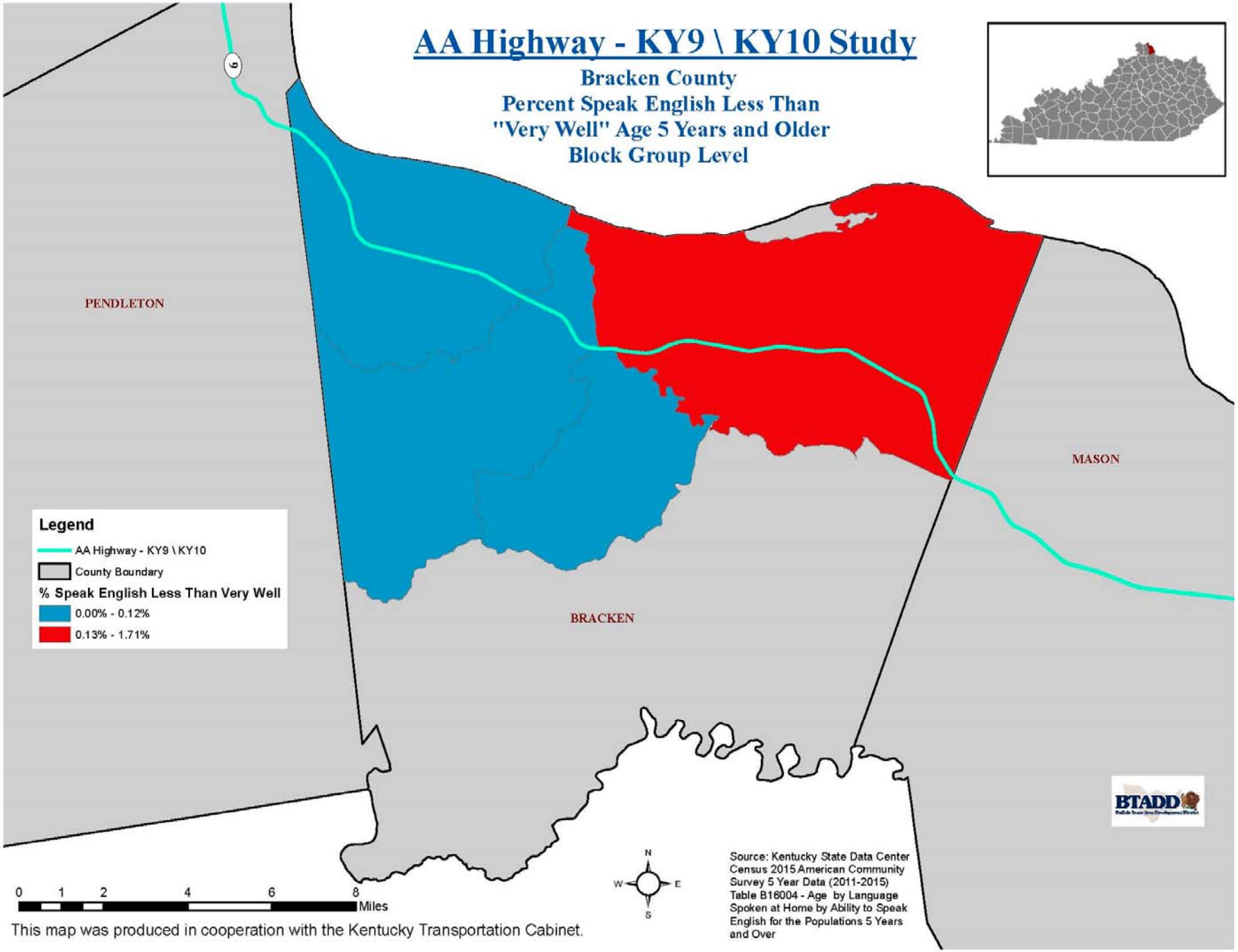
	Total Population Age 5 Years and Older	Population with Limited English Proficiency Age 5 Years and Older	Population with Limited English Proficiency Age 5 Years and Older (%)
United States	301,150,892	25,654,421	8.52%
Kentucky	4,150,236	91,813	2.21%
BTADD	52,234	427	0.82%
Lewis	12,805	56	0.44%
Block Group 1, Census Tract 9301	935	0	0.00%
Block Group 2, Census Tract 9301	1529	7	0.46%
Block Group 3, Census Tract 9301	1628	0	0.00%
Block Group 1, Census Tract 9302	1936	0	0.00%
Block Group 2, Census Tract 9302	1204	0	0.00%
Block Group 3, Census Tract 9302	566	0	0.00%
Block Group 2, Census Tract 9303	611	0	0.00%
Block Group 3, Census Tract 9303	1881	34	1.81%
Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table B16004			

	Total Population Age 5 Years and Older	Population with Limited English Proficiency Age 5 Years and Older	Population with Limited English Proficiency Age 5 Years and Older (%)
United States	301,150,892	25,654,421	8.52%
Kentucky	4,150,236	91,813	2.21%
BTADD	52,234	427	0.82%
Greenup	34,068	93	0.27%
Block Group 1, Census Tract 405.01	1536	0	0.00%
Block Group 2, Census Tract 405.01	1440	4	0.28%
Block Group 1, Census Tract 407	1547	0	0.00%
Block Group 2, Census Tract 407	575	0	0.00%
Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table B16004			

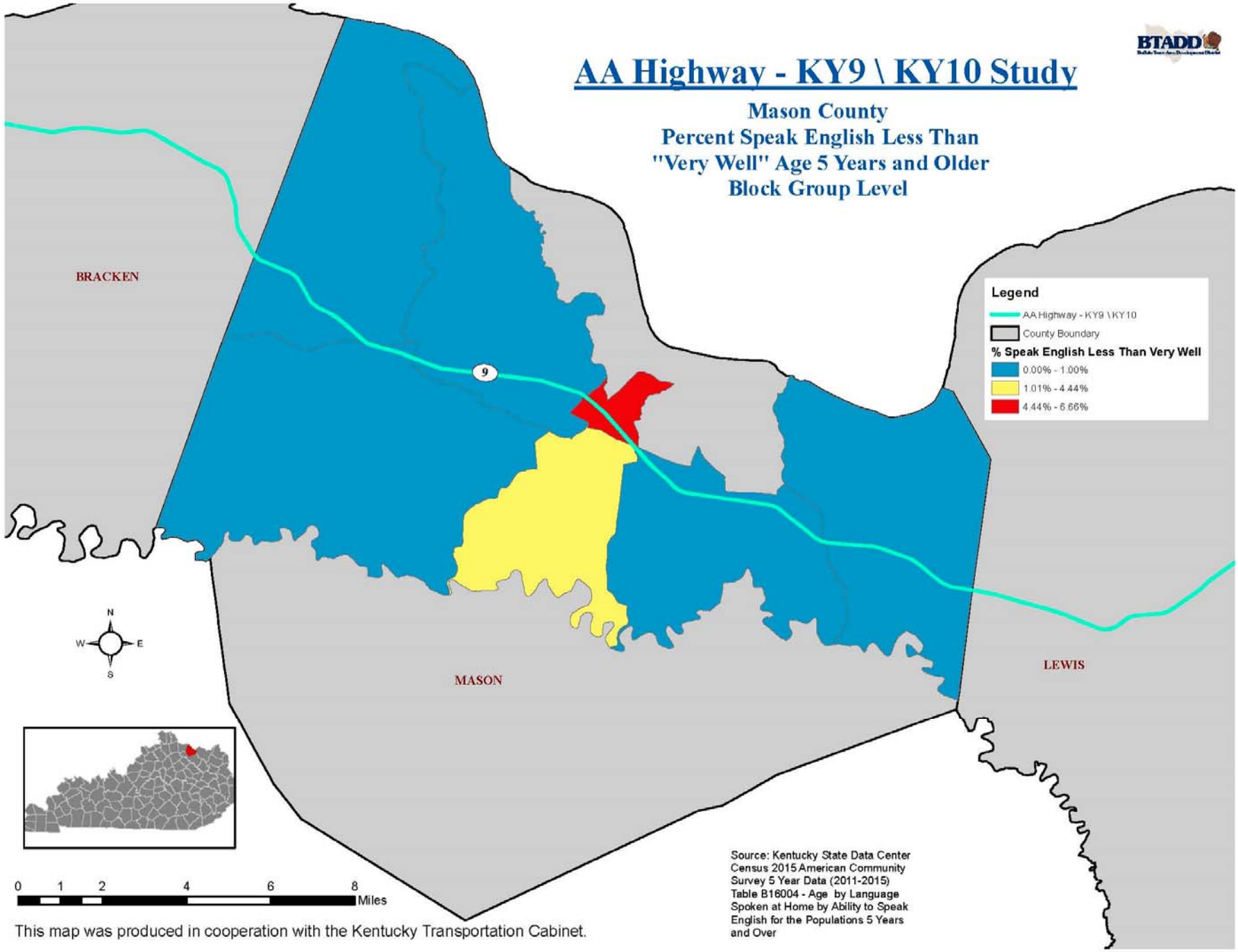
	Total Population Age 5 Years and Older	Population with Limited English Proficiency Age 5 Years and Older	Population with Limited English Proficiency Age 5 Years and Older (%)
United States	301,150,892	25,654,421	8.52%
Kentucky	4,150,236	91,813	2.21%
BTADD	52,234	427	0.82%
Carter	25,712	93	0.36%
Block Group 1, Census Tract 9604	1,123	4	0.36%
Block Group 2, Census Tract 9605	1,342	0	0.00%
Source: US Census Bureau, 2013-2017 American Community Survey 5-Year Estimates Table C21007			

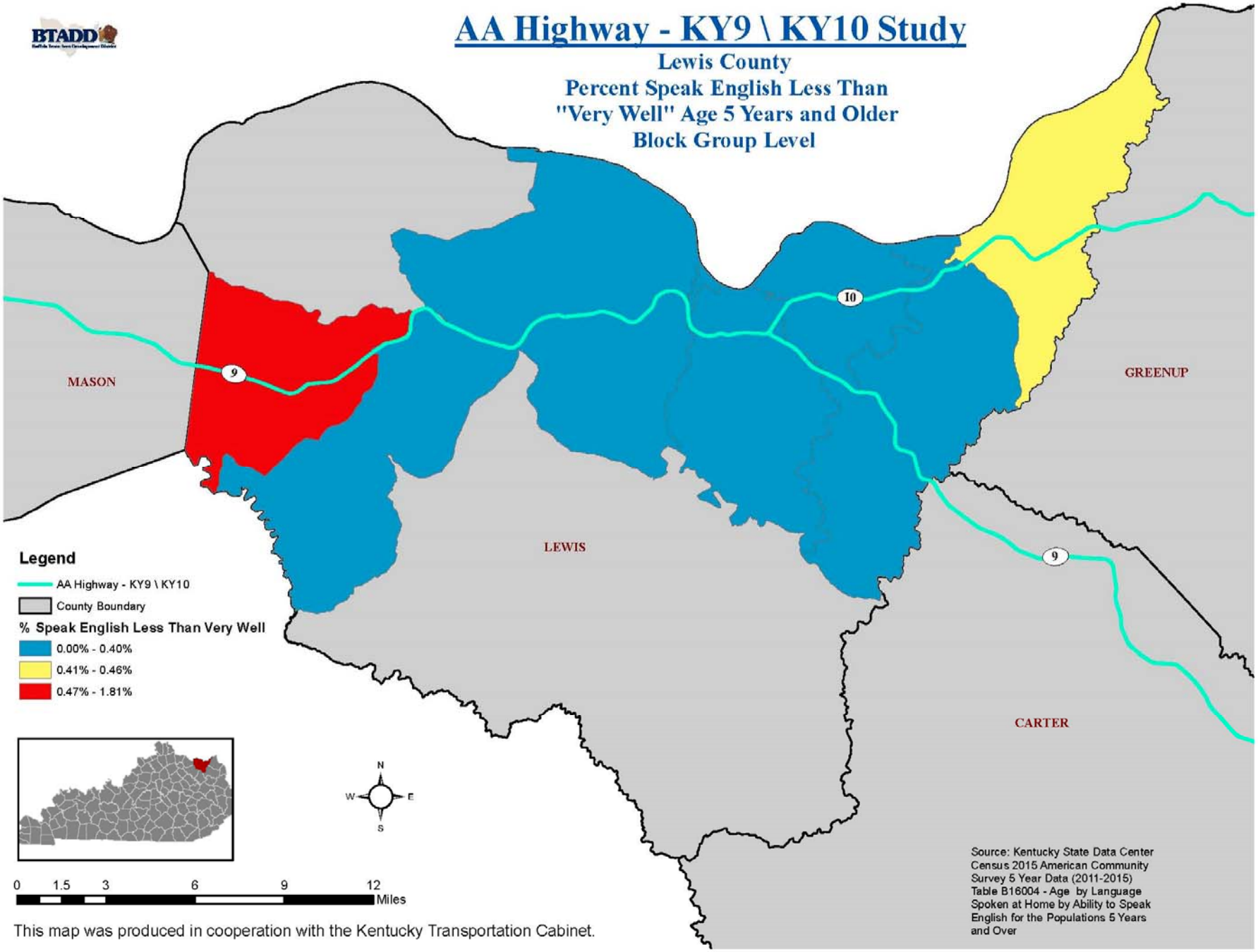

AA Highway - KY9 \ KY10 Study
Campbell County
Percent Speak English Less Than
"Very Well" Age 5 Years and Older
Block Group Level
Legend
AA Highway - KY9 \ KY10
County Boundary
% Speak English Less Than Very Well
0.00% - 1.00%
1.01% - 3.30%
3.31% - 4.00%
4.01% - 7.45%
CAMPBELL
PENDLETON
BTADD
Source: Kentucky State Data Center
Census 2015 American Community
Survey 5 Year Data (2011-2015)
Table B16004 - Age by Language
Spoken at Home by Ability to Speak
English for the Populations 5 Years
and Over
N
W
E
S
0 1 2 4 6 8
Miles
This map was produced in cooperation with the Kentucky Transportation Cabinet.


AA Highway - KY9 \ KY10 Study
Pendleton County
Percent Speak English Less Than
"Very Well" Age 5 Years and Older
Block Group Level
Legend
AA Highway - KY9 \ KY10
County Boundary
% Speak English Less Than Very Well
0.00%
CAMPBELL
PENDLETON
BRACKEN
9
Source: Kentucky State Data Center
Census 2015 American Community
Survey 5 Year Data (2011-2015)
Table B16004 - Age by Language
Spoken at Home by Ability to Speak
English for the Populations 5 Years
and Over
BTADD
N
W
E
S
0 1 2 4 6 8
Miles
This map was produced in cooperation with the Kentucky Transportation Cabinet.

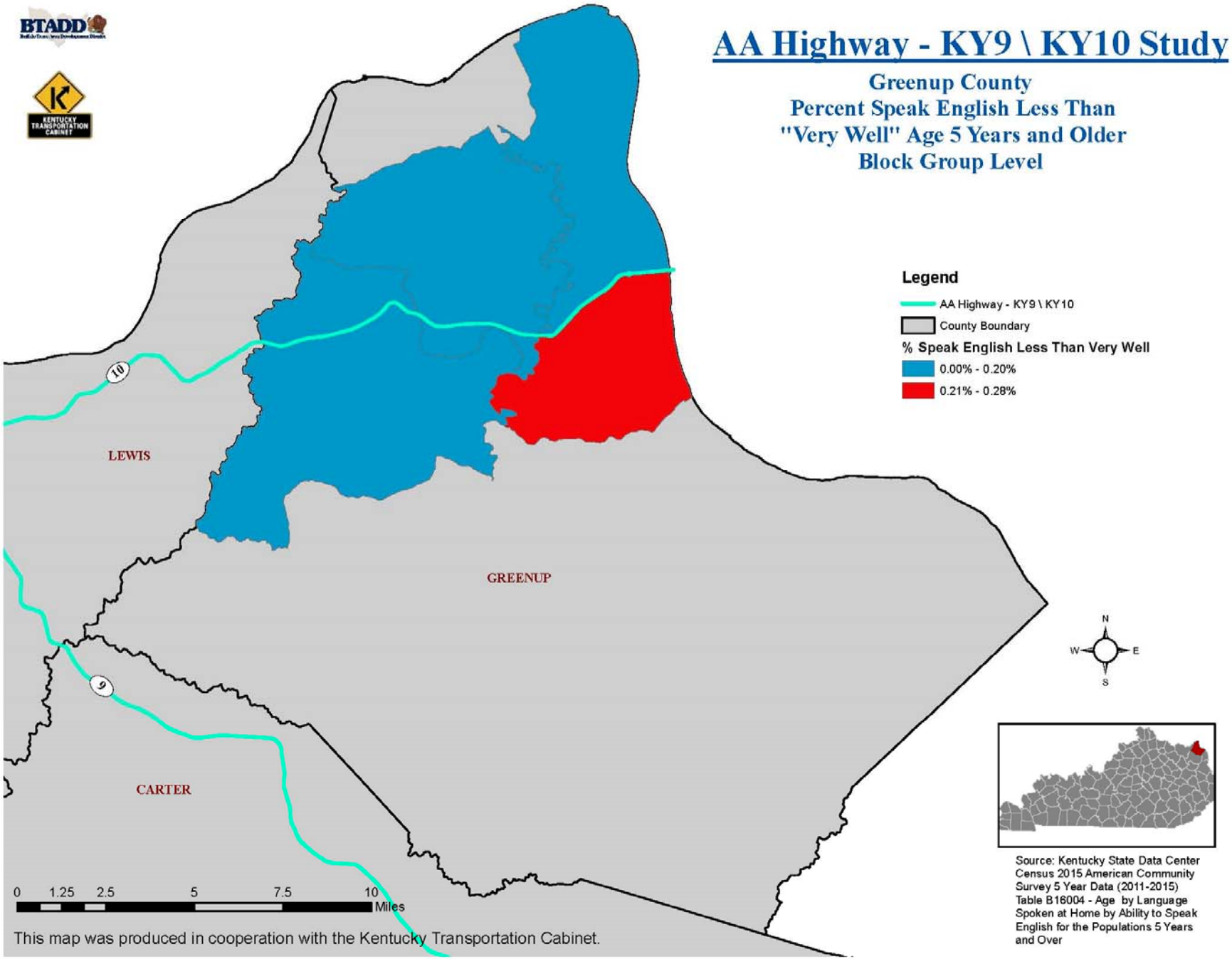


This map was produced in cooperation with the Kentucky Transportation Cabinet.


AA Highway - KY9 \ KY10 Study
Mason County
Percent Speak English Less Than
"Very Well" Age 5 Years and Older
Block Group Level
BTADD
BRACKEN
MASON
LEWIS
9
Legend
AA Highway - KY9 \ KY10
County Boundary
% Speak English Less Than Very Well
0.00% - 1.00%
1.01% - 4.44%
4.44% - 6.66%
N
W
E
S
0 1 2 4 6 8
Miles
Source: Kentucky State Data Center
Census 2015 American Community
Survey 5 Year Data (2011-2015)
Table B16004 - Age by Language
Spoken at Home by Ability to Speak
English for the Populations 5 Years
and Over
This map was produced in cooperation with the Kentucky Transportation Cabinet.



This map was produced in cooperation with the Kentucky Transportation Cabinet.


BTADD
KENTUCKY TRANSPORTATION CABINET
AA Highway - KY9 \ KY10 Study
Greenup County
Percent Speak English Less Than
"Very Well" Age 5 Years and Older
Block Group Level
Legend
AA Highway - KY9 \ KY10
County Boundary
% Speak English Less Than Very Well
0.00% - 0.20%
0.21% - 0.28%
LEWIS
GREENUP
CARTER
10
9
N
W
E
S
0 1.25 2.5 5 7.5 10
Miles
This map was produced in cooperation with the Kentucky Transportation Cabinet.
Source: Kentucky State Data Center
Census 2015 American Community
Survey 5 Year Data (2011-2015)
Table B16004 - Age by Language
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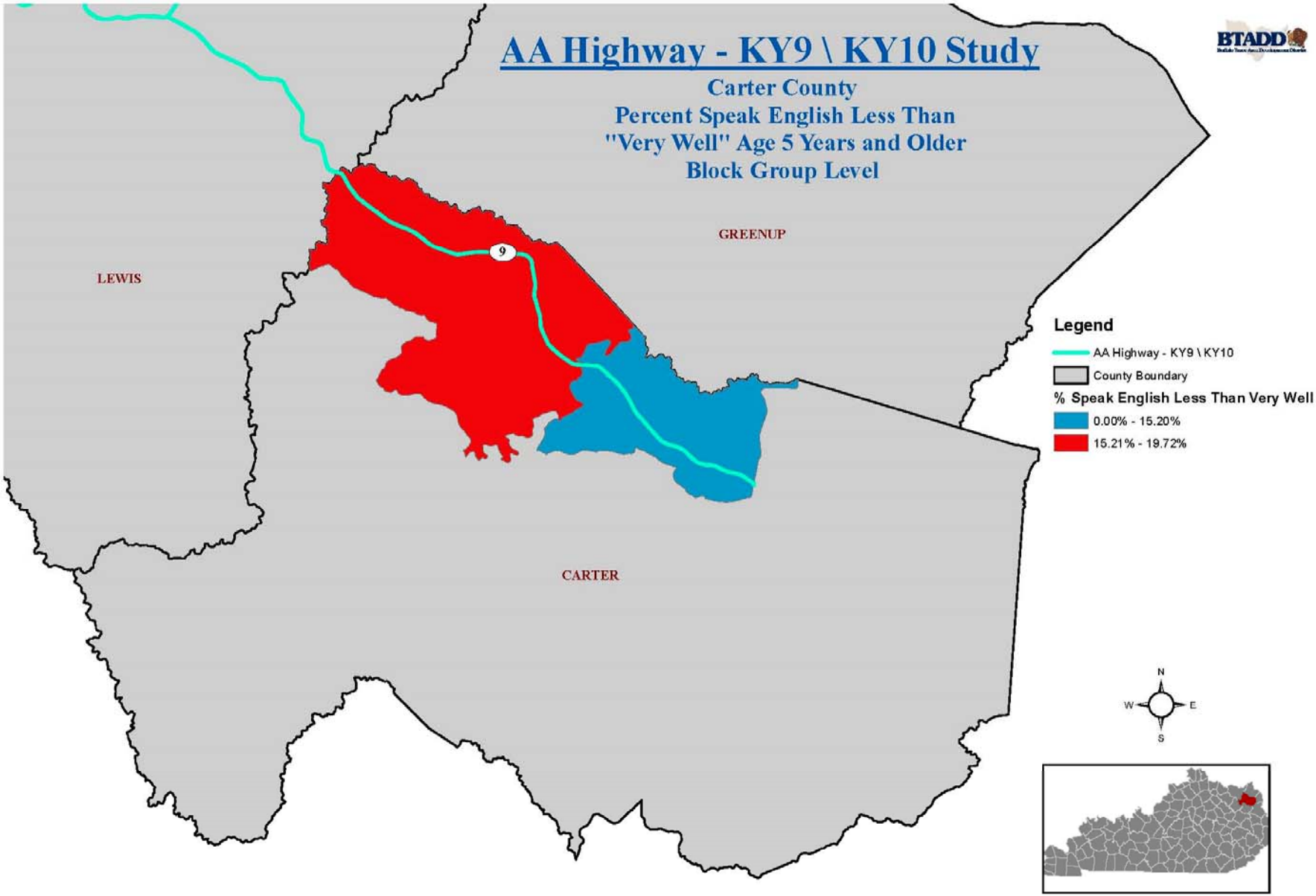


This map was produced in cooperation with the Kentucky Transportation Cabinet.

Conclusion

Minority populations in the county as a whole are less than the state average but Block Group 1 and 2 of Census Tract 501 (34.04% & 38.36%), Block Group 2 Census Tract 506 (17.28%) and Block Group 4 Census Tract 525 (20.98%) in Campbell County all surpass the state average.

Mason, Lewis, Greenup and Carter Counties all have a higher population age 65 years and older than that of the state and the nation. All the counties with the exception of Pendleton County had elevated number in multiple Census Tracts.

The populations below the poverty level are higher in Bracken, Lewis and Carter Counties. All the counties have Census Tracts with higher percentages with the exception of Pendleton County. Campbell County has the highest concentrated area in Block Group 2 Census Tract 501 at 70.14%.

Mason, Lewis Greenup and Carter counties all have a higher percentage than the state in persons with a disability. All the counties with the exception of Pendleton County have Census Tracts with higher percentages. Lewis County has the highest in Block Group 2 Census Tract 9302 with 46.98%

None of the county averages were above the state average, but Campbell and Mason have census tracts that are higher than the state. Mason County has the highest in Block Group 2 Census Tract 9603 with 6.65%

During future phases of project development a more detailed and robust analysis would be required for the NEPA documentation when assessing the potential for adverse and disproportionate impacts to those with disabilities, poverty status, and minority populations.

Appendix: Methodology from KYTC

Updated: November 2019
Methodology for Assessing Underserved Populations including Environmental Justice, Title VI, Age and Disability considerations in conjunction with KYTC Planning Studies

Cover Page
Title: Insert specific study type/area
Subtitle: Socioeconomic Study
Date:
Author:

Analysis
Environmental Justice (EJ) refers to the fair treatment of all people regardless of race, color, national origin or income. Specifically, agencies must demonstrate meaningful involvement with the above stated groups with respect to development, implementation and enforcement of environmental laws, regulations and policies. EJ analysis is undertaken for any study that may result in impacts on a minority and/or low income population that has a federal nexus (funding or approval).

Additionally KYTC works to identify potential populations of the Elderly, Disabled, Limited English Proficiency and Limited Transportation Options that may be impacted in or near the Affected Community (AC) should highway improvements take place in the future.

Examples of these studies include, but are not limited to:
- Corridor Studies
- Traffic Studies
- Small Urban Area Studies
- Feasibility Studies
- Interchange Justification Studies
- Interchange Modification Reports

Affected Community with potential environmental justice impacts are determined by locating populations of minority, low-income, disabled or elderly and calculating their percentage in the area relative to a reference community of comparison (COC).

Communities of comparison:
- The county percentage
- Kentucky percentage
- Block groups within reasonable proximity of the study area
- United States
- ADD Region

The demographics of the study area should be defined using block group data accessed via the American Community Survey 5 year data. KYTC will work in conjunction with the State Data Center to provide pertinent spatial data on a yearly basis for the following, as the update schedule allows:
- Minority
- Low-income
- Elderly
- Disabled populations
- Limited English Proficiency

Sample Analysis

The percentage of persons living below the poverty level in Kentucky (18.60%) is significantly higher than that of the United States (14.90%). Poverty levels in Metcalfe County are slightly lower than that of the state with 16.10% of Metcalfe County residents living below the poverty level. CT 9601 has greater levels of poverty than does the county, state and U.S. with 17.90% of persons living below the poverty level. CT 9603 however has a lower level of poverty than Metcalfe County as a whole and the state, with 13.40% of residents living below the poverty.

******The following disclaimer should be included in the document in the Socioeconomic Study methodologies Section:******

The methodologies used in this planning document are appropriate for identifying possible areas of concern in small urban areas and potential project corridors. However, during future phases of project development a more detailed and robust analysis would be required for the NEPA documentation when assessing the potential for adverse and disproportionate impacts to low-income and minority populations.

A map or shapefile of the alternatives will be provided by the consultant or KYTC to the applicable Area Development District (ADD). KYTC, in conjunction with the consultant, will review the ADD data for quality and completeness. The consultant will summarize the information provided by the ADD in the final report. The full Socioeconomic analysis should be placed in an Appendix for reference as necessary.

APPENDIX E:

Meeting Minutes

FINAL Meeting Minutes

Project: **AA Highway Improvements Study**

Subject: **Project Team Meeting No. 1**

Date: **Tuesday, January 14, 2020, 9:30 AM (Eastern Time)**

Location: **Buffalo Trace ADD Office**

Attendees:

Stephen De Witte	KYTC Central Office, Division of Planning
Jacob Huber	KYTC Central Office, Division of Planning
Jay Balaji	KYTC Central Office, Division of Planning
Kevin Sandefur	KYTC Central Office, District 6 Location Engineer
Randy Turner	KYTC Central Office, District 9 Location Engineer
Mike Bezold	KYTC District 6, Project Development & Design Branch Manager
Dane Blackburn	KYTC District 6, Planning Supervisor
Craig Walker	KYTC District 6
Donald Imfeld	KYTC District 6, Planning
Steve Gunnell	KYTC District 9, Chief District Engineer
Darrin Eldridge	KYTC District 9, TEBM for Project Development
Karen Mynhier	KYTC District 9, Environmental Coordinator
Matt Dillon	KYTC District 9, Planning
Michael Read	KYTC District 9, Planning
Missy Hardy	BTADD
Amy Kennedy	BTADD
Lindsay Walker	HMB
Jarrod Johnson	HMB
Joey Mosley	HMB
John Callihan	AECOM

Agenda / Handouts:

To facilitate the meeting the following materials were provided as handouts and are included as an attachment to these meeting minutes.

- Agenda
- Existing and Committed Projects Map
- Existing and Committed Projects Matrix
- Presentation Slides

Meeting Comments / Summary:

Stephen DeWitte of KYTC Central Office (CO) Planning began the meeting with introductions, and then turned the meeting over to Lindsay Walker of HMB to begin the discussion which was facilitated by a PowerPoint presentation and handouts. The following are comments / discussion items for each agenda item.

I. Study Background

- HMB presented the study area, study objective and goals, tasks, and schedule.
- KYTC District 9 (D9) noted that Joe Callahan, previously the D9 Planning Supervisor, is now the D9 Engineering Support Branch Manager. Matt Dillon and Michael Read will now be filling in to assist with D9's planning duties for this project.
- KYTC D9 stated that one of their goals for this study was ultimately to get information that would go on a CHAF.
- KYTC CO Planning noted that the study schedule would need to be amended to reflect that initial traffic forecasting methodology would be completed in January 2020 with a final traffic forecast report prepared later in the process (April 2020).
- HMB noted that they see this study as a large-scale Small Urban Area (SUA) study / combination large-scale Highway Safety Improvement Program (HSIP) project. The project team concurred with this assessment. Ultimately individual project locations will be identified and evaluated as stand-alone project sheets.

II. Existing Conditions

- HMB presented the existing conditions of data gathered thus far including existing and committed projects, typical sections, traffic conditions, freight network and major industries, crash analysis, and the preliminary field review.

a) Existing and Committed Projects

- KYTC D9 commented that the project team should ensure all the identified project descriptions and estimates are accurate and up to date. KYTC will update HMB with all changes to project descriptions and estimates.
- There was discussion on the existing and committed projects about which projects were authorized, sponsored, and the probabilities of certain projects moving forward. KYTC D6 noted they had several CHAFs that are currently not listed in the table / map as they have not been sponsored or rated in the prioritization process. Both KYTC D6 and D9 will review the table / map and

update HMB on the most up to date status of all identified projects directly impacting the study corridor.

- There was a discussion on the terminology used for the identified study area projects. HMB will change the terminology from "Existing and Committed Projects" to "Identified and Committed Projects".
- HMB noted that there is a Small Urban Area (SUA) study that just started for the Boyd-Greenup area. It was noted that the Boyd-Greenup SUA Study area does not overlap with this study area based on initial review of online mapping.

b) Typical Sections

- HMB presented the existing typical section of the study corridor. This included percentages of two-lane, four-lane, and two-lane with climbing lanes.
- HMB asked when the rumble strips were installed along the study corridor. KYTC answered that the rumble strips were initially installed over a decade ago.
- HMB discussed the recently widened section of KY 9 in Mason County. KYTC D9 stated that this project was Item No. 9-169 which began construction in September 2015 and ended October 2017. KYTC CO commented that the KYTC FTP client is working now and will coordinate with KYTC D9 to provide HMB with the construction documents for 9-169. KYTC CO warned the project team that KYTC's FTP has sometimes been flagged as spam.

c) Traffic Overview

- HMB presented the existing traffic in the study area including AADT, AADTT, DHV, and LOS for all identified count stations along the study corridor.
- HMB noted that most counts are recent, with one exception (Station 081782 in Mason County last counted in 2013). KYTC D9 noted that they could potentially supplement HMB with any intersections counts beyond what HMB is scoped to do if necessary.
- KYTC CO Planning asked about their role regarding traffic forecasting and when HMB would need the information. HMB explained what was necessary from KYTC. KYTC CO noted that since the traffic model could change based on newly authorized projects on the study corridor, the final traffic forecasting should be moved from January to later in the study such as April or May to ensure correct forecasting.
- There was a discussion about growth rates and new potential developments affecting the study area. KYTC D9 surmised that the only cause to warrant widening to a four-lane would be new local development since the current growth rates do not support need for more capacity. HMB asked if the project team knew of any potential development in Ohio as well that could

affect the study. HMB will bring this topic up at Local Official / Stakeholder (LO/S) Meeting No. 1 to confirm any new development.

- KYTC CO Planning asked how growth rates should be applied to the study corridor (i.e. one growth rate for entire corridor or separate ones based on growth areas). HMB will continue to coordinate with the project team to determine growth rates and application through the corridor and intersections.

d) Freight Network and Major Industries
    - HMB presented a map showing the Kentucky Highway Freight Network along with locations of any employers in the study area counties that have 100 or more employees.
    - KYTC D9 noted to the project team that there is an existing freight study for Boyd and Greenup counties. KYTC CO Planning informed attendees that it is just beginning and HDR is the consultant. KYTC stated that Jeremy Edgeworth would be a good point of contact and would get HMB in touch to determine any overlap between these projects.
e) Crash Analysis
    - HMB presented the crash history analysis for the study corridor including crash history statistics, EEC analysis results, CRF analysis results, and crash density.
    - There was discussion about the effectiveness of crash prediction methods amongst the project team and the difference in the CRF and EEC analysis. KYTC D9 expressed that the project team should be cautious when evaluating the study corridor with respect to these methods since the facility is not being used the way it was designed. Currently, speeds are observed to be higher than the design speed and this may have implications with crash prediction models. KYTC CO noted that the EEC analysis is used mainly as a screening tool. HMB will coordinate with KYTC to examine high crash locations and crash prediction results in further detail to ensure the needs stemming from crash data for the project are accurately achieved. EEC segments (where possible) should match with the identified study segments for the CRF analysis.
    - There was a discussion on the importance of severity and intensity when it comes to analyzing crash data at this study's scale. The KABCO crash severity identification method was explained by HMB. KYTC CO Planning noted that they would like to see A's as well as K's in future maps. Also, KYTC D9 commented that they would like to see a weight given to injury severities to enhance the crash analysis. HMB will coordinate with KYTC to analyze the crash data in other meaningful ways such as those described.

- HMB presented crash density maps to the project team. It was noted that the data could potentially be normalized to reflect differences in AADT or other factors due to the scale of this study. HMB will re-evaluate the crash density maps to determine if they could be more inferential.
- Focus for presentation of crash data for the LO/S meeting will be graphically oriented. Presenting EEC and CRF numbers is too detailed for this type of meeting.

f) Field Review

- HMB discussed their preliminary field review including observations and concerns.
- KYTC D6 noted one of their primary concerns is turn lanes and identifying where they are warranted. KYTC D6 expressed concern that LO/S expectations may be that turn lanes are required everywhere and the project team needs to clearly convey that turn lanes will be considered where warrants are met.
- Both KYTC D6 and D9 voiced concerns over where auxiliary lanes end and their potential for impacts to safety.
- KYTC D9 noted that LO/S attendees may be focused on widening projects for the existing two-lane segments. The project team should be prepared to show data to inform regarding the effectiveness of this potential improvement concept.
- There was a discussion about Park and Rides and Park and Pools. KYTC D6 stated that they reserve the term “Park and Ride” only if there is bus service involved with it.
- There was a discussion about lighting along the study corridor and payment for the lighting. KYTC D9 stated that the study should make recommendations for lighting while noting the responsibilities associated with all entities (i.e. KYTC and local jurisdictions).
- There was a discussion about existing and future repaving along the study corridor. KYTC will provide HMB with the latest resurfacing schedule and ranking for the study corridor.
- BTADD stated that they were working on a socioeconomic inventory on part of the study area and will provide HMB with results once they are complete.

III. Preliminary Discussion of Improvement Concepts

- HMB began a discussion on preliminary improvement concepts and listed a preliminary set of concepts to consider that provide high value/low impact/low cost solutions to address identified project locations. HMB will continue to evaluate improvement concepts based on the need in the study corridor.

IV. Local Official / Stakeholder Meeting Preparation

- HMB began discussing preparation for LO/S Meeting No. 1. It was noted that there would be two meetings held during this time with the same meeting content given the size of the study area to lessen the travel required for attendees.
- KYTC D9 suggested that a good method to conduct the LO/S Meeting No. 1 would be to focus on presenting information. Also, KYTC D9 suggested that it would be good to present what has been implemented from the previous AA Highway study and show the effectiveness of those items including rumble strips, lighting, law enforcement. etc. HMB will coordinate with KYTC to determine these implementations and their effectiveness.
- There was a discussion about the list of invitees the LO/S Meeting No. 1. The project team agreed that they did not want the meetings to become unmanageable and ineffective and will be prudent in determining a list of invitees. BTADD stated that they have a list of names such as Planning and Zoning Commission members that they can provide. KYTC will coordinate with the ADDs to determine a list of invitees for LO/S Meeting No. 1.
- KYTC CO Planning stated they will create a draft letter to send for the upcoming LO/S Meeting No. 1. There was a discussion about who would sign the LO/S letters since it spans two districts. The project team decided that both KYTC D6 and KYTC D9 Chief District Engineers will both sign the letter.
- BTADD commented that February is a busy month for elected officials and is during the 2020 legislative session. BTADD noted good potential dates would be the same day as BTADD AND FIVCO board meetings. FIVCO meets at 2 PM on the 3rd Monday of the month, and BTADD meets at 3PM on the 3rd Tuesday of the month. BTADD suggested it would be good to schedule both LO/S Meeting No. 1s directly before or after these board meetings.

The meeting concluded at approximately 11:40 AM (Eastern Time).

List of Follow-Up / Action Items by Responsible Party:

A list of follow-up / action items from Project Team Meeting No. 1 include:

- KYTC will update HMB with all changes to project descriptions and estimates.
- KYTC to provide HMB with the construction documents for Item No. 9-169.
- HMB will contact Jeremy Edgeworth (KYTC) for information relating to the freight study in Boyd and Greenup Counties.

- HMB to provide KYTC a list of necessary counts needed for the project (HMB will collect up to 10 with KYTC D9 potentially able to help with any others that may be needed).
- KYTC to develop a draft LO/S Meeting No. 1 letter and schedule the LO/S Meeting No. 1s.
- KYTC will coordinate with BTADD, FIVCO, and KYOVA to determine a list of invitees for the LO/S Meeting No. 1.
- KYTC to provide a list of previously implemented projects related to the previous AA Highway Study to present at the LO/S Meeting No. 1.
- KYTC to provide HMB with the latest resurfacing schedule and ranking for the study corridor.
- BTADD to provide HMB results from the socioeconomic study.
- HMB will prepare materials to be presented at the LO/S meeting No. 1. These will be submitted at a minimum two weeks prior to the meeting date to allow project team review.

Attachments:

Meeting Agenda

Handouts

Presentation

AGENDA

AA Highway Improvements Study

Project Team Meeting No. 1

January 14, 2020, 9:30 AM

Buffalo Trace Area Development District

Maysville, Kentucky

I. Study Background
   - A. Study Area
   - B. Study Objective / Goals
   - C. Schedule

II. Existing Conditions
   - A. Existing and Committed Projects
   - B. Roadway Geometrics
   - C. Traffic Volumes
   - D. Crash Analysis
   - E. Field Review Information

III. Preliminary Discussion of Improvement Concepts

IV. Local Official / Stakeholder Meeting Preparation
   - A. Schedule / Locations
   - B. Invitees
   - C. Meeting Materials / Activities

V. Next Steps / Wrap Up

KENTUCKY TRANSPORTATION CABINET

AECOM

SIGN-IN SHEET

AA Highway Improvements Study

Project Team Meeting No. 1

Attendees:

Name	Agency	Email	In Attendance?
Stephen DeWitte	KYTC – CO	Stephen.DeWitte@ky.gov	SGD
Beth Niemann	KYTC – CO	Elizabeth.Niemann@ky.gov	
Jacob Huber	KYTC – CO	Jacob.Huber@ky.gov	
Steve Ross	KYTC – CO	Steve.Ross@ky.gov	
Jay Balaji	KYTC – CO	Jayalakshmi.Balaji@ky.gov	JJB.
Kevin Sandefur	KYTC - Highways	Kevin.Sandefur@ky.gov	KS
Randy Turner	KYTC - Highways	Randy.Turner@ky.gov	RT
Scott Schurman	KYTC – Env.	Scott.Schurman@ky.gov	
Adam Michels	KYTC – Env.	Adam.Michels@ky.gov	
Robert Yeager	KYTC – D6	Robert.Yeager@ky.gov	
Mike Bezold	KYTC – D6	Mike.Bezold@ky.gov	GMB
Dane Blackburn	KYTC – D6	Dane.Blackburn@ky.gov	EDB
Nikki Hill	KYTC – D6	Nikki.Hill@ky.gov	
Steve Gunnell	KYTC – D9	Steve.Gunnell@ky.gov	
Darrin Eldridge	KYTC – D9	Darrin.Eldridge@ky.gov	
Joe Callahan	KYTC – D9	Joe.Callahan@ky.gov	
Karen Mynhier	KYTC – D9	Karen.Mynhier@ky.gov	
Matt Dillon	KYTC – D9	Matt.Dillon@ky.gov	MD
Jeff Thelen	NKADD	Jeff.Thelen@nkadd.org	
Missy Hardy	BTADD	mhardy@btadd.com	MH
Luke Stapleton	FIVCO	luke@fivco.org	
Lindsay Walker	HMB	lwalker@hmbpe.com	
Brad Johnson	HMB	bcjohnson@hmbpe.com	
Jarrod Johnson	HMB	jjohnson@hmbpe.com	
Joey Mosley	HMB	jmosley@hmbpe.com	
John Callihan	AECOM	john.callihan@aecom.com	JEC
Michael Read	KYTC D-9	michael.read@ky.gov	MR
Jacob Huber	KYTC C.O.	jacob.huber@ky.gov	
Craig Walker	KYTC D6	craig.walker@ky.gov	CW
Donald Infelt	KYTC D6	Donald.Infelt@ky.gov	DI

KENTUCKY TRANSPORTATION CABINET

AECOM

SIGN-IN SHEET

AA Highway Improvements Study

Project Team Meeting No. 1

Attendees:

Name	Agency	Email	In Attendance?
Amy Kennedy	Buffalo Trace ADD	akennedy@btadd.com	✓

KENTUCKY TRANSPORTATION CABINET

AECOM



AA Highway Improvements Study

Bracken, Carter, Greenup, Lewis, Mason, Pendleton Counties

Project Team Meeting No. 1

January 14, 2020, 9:30 AM EDT

KENTUCKY TRANSPORTATION CABINET

AECOM

AGENDA

1. Study Background
2. Existing Conditions
3. Preliminary Discussion of Improvement Concepts
4. Local Official / Stakeholder Meeting Preparation
5. Next Steps / Wrap Up

STUDY BACKGROUND

Study Background

Study Area



Study Background

Study Objective

- Identify and evaluate potential improvement concepts to improve overall safety and operational performance of the AA Highway including KY 9 from the Campbell / Pendleton County line to Grayson (KY 1) and KY 10 from Vanceburg to US 23 in Greenup County.

Study Background

Study Goals

- Identify Project Locations
- Develop / Evaluate Improvement Concepts
- Prepare Prioritized List of Improvement Concepts

Study Background

Study Tasks

- Compile Existing Conditions Information
- Prepare Traffic Forecasts (Year 2045)
- Perform Environmental Overview
- Develop Improvement Concepts
- Refine Improvement Concepts
- Prioritize Recommended Improvements

Study Background

Schedule

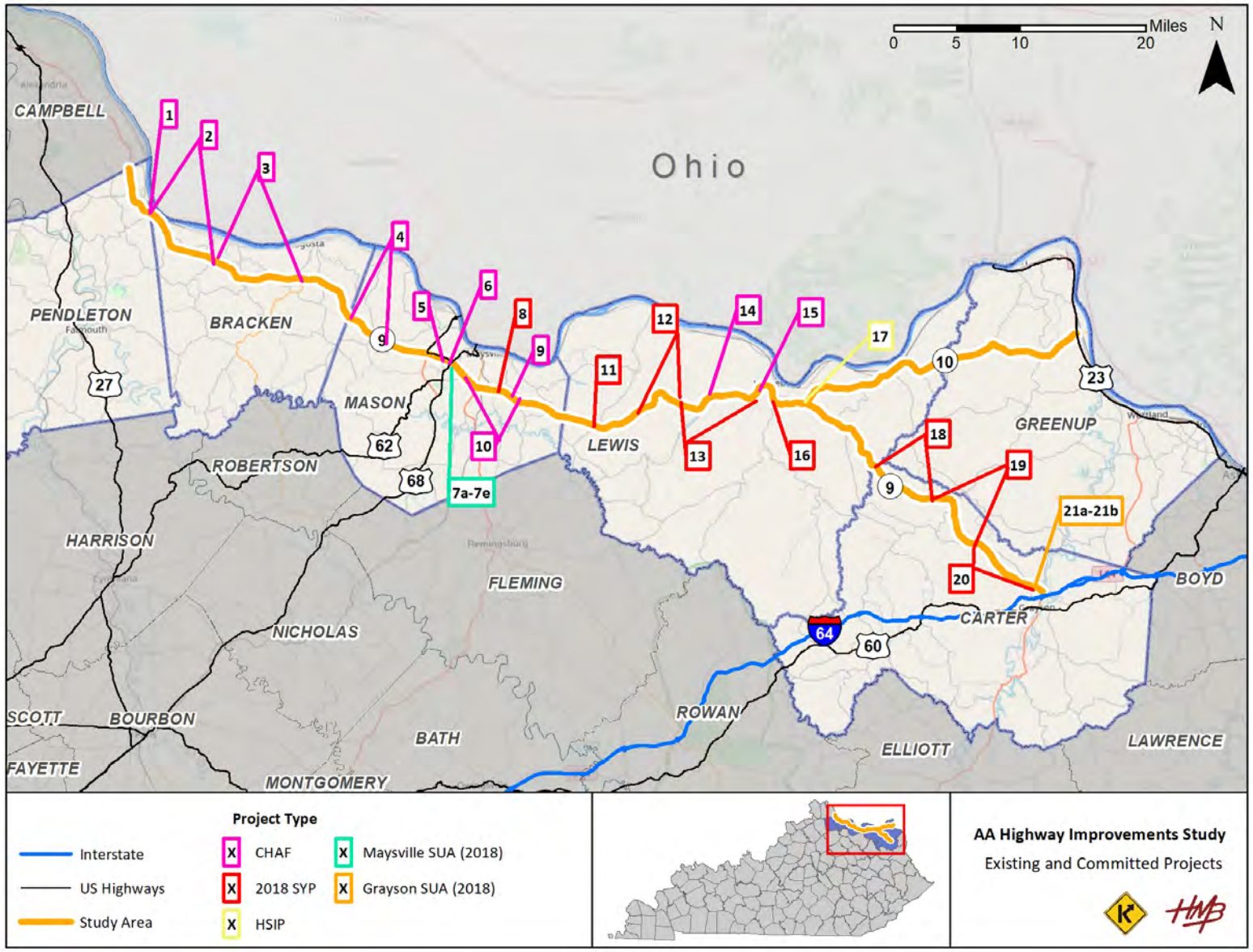
August 2019	Study Initialized
Sept. – Dec. 2019	Scoping / Data Gathering / Existing Conditions Analysis
January 2020	Project Team Meeting No. 1 / Traffic Forecasting
February 2020	LO/S Meeting No. 1 / Develop Improvement Concepts
March 2020	Project Team Meeting No. 2 / Evaluate Improvement Concepts
April 2020	LO/S Meeting No. 2 / Refine Improvement Concepts
May 2020	Develop Recommendations
June 2020	Project Team Meeting No. 3
July 2020	Prepare Draft Report
August 2020	Address Comments / Finalize Report

KENTUCKY TRANSPORTATION CABINET

EXISTING CONDITIONS

Existing Conditions

Existing and Committed Projects



Existing Conditions

Typical Section



62% Two-Lane

(73.3 miles)



26% Two-Lane with Truck Climbing Lane

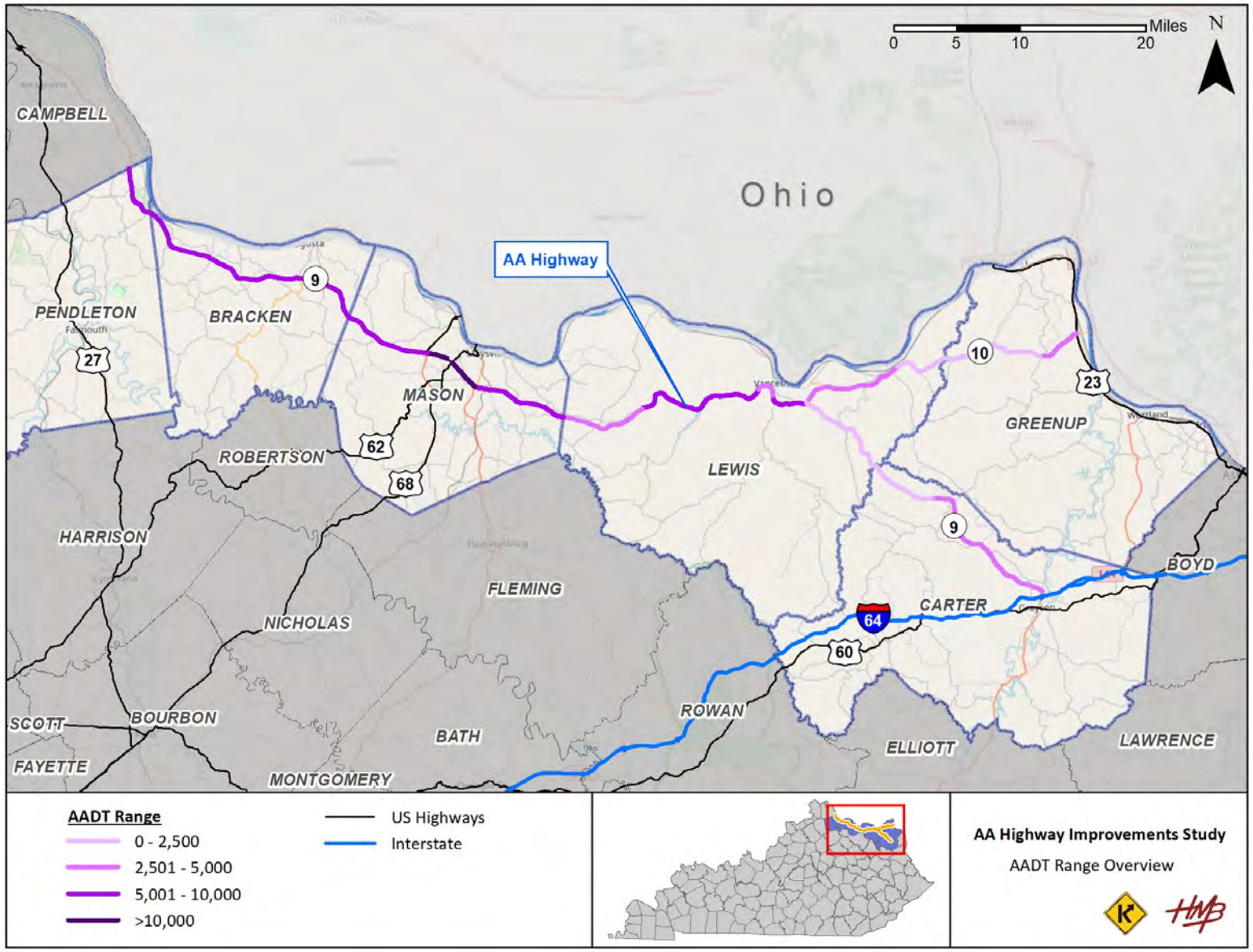


12% Four-Lane

(14.3 miles)

Existing Conditions

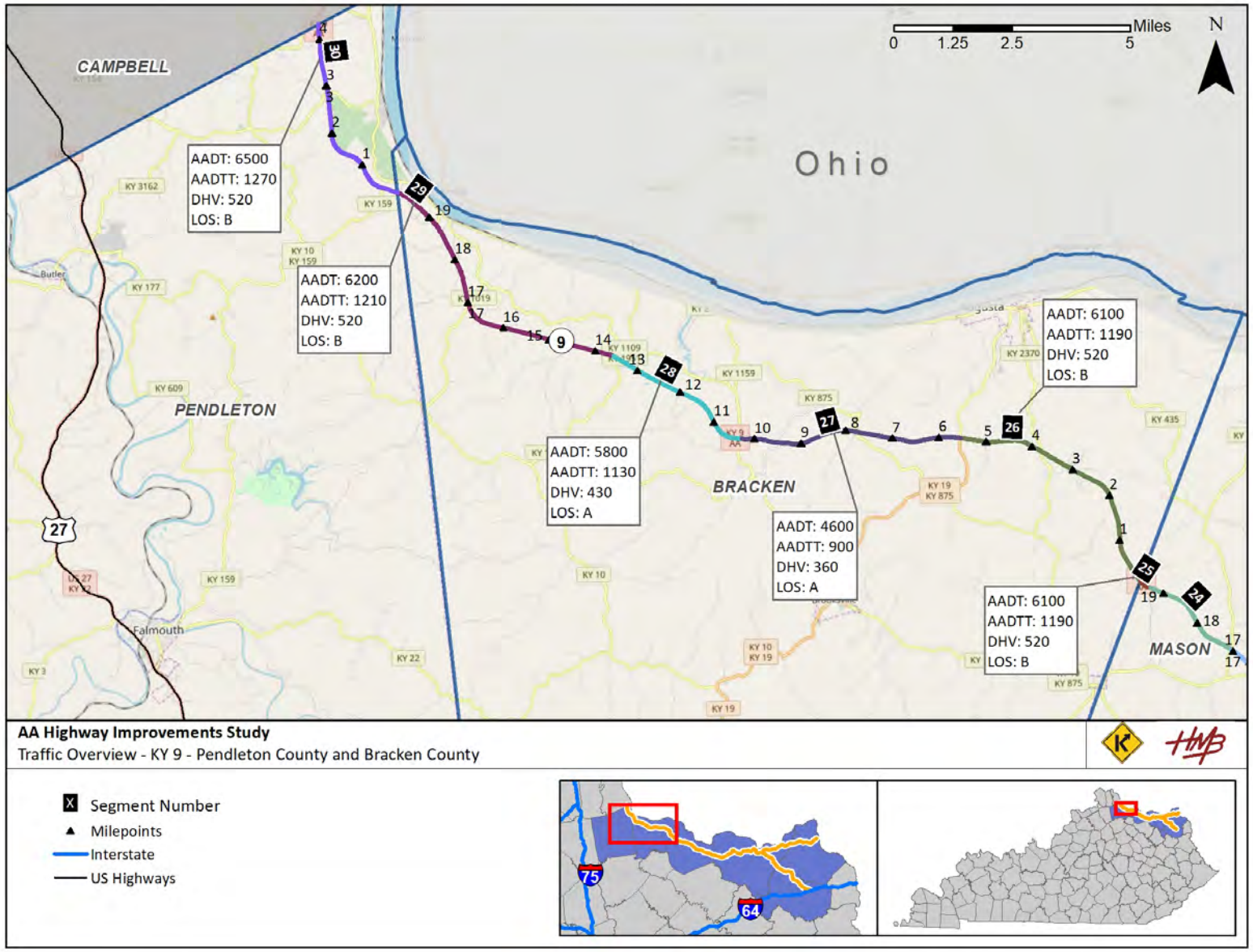
AADT



Existing Conditions

Traffic Overview

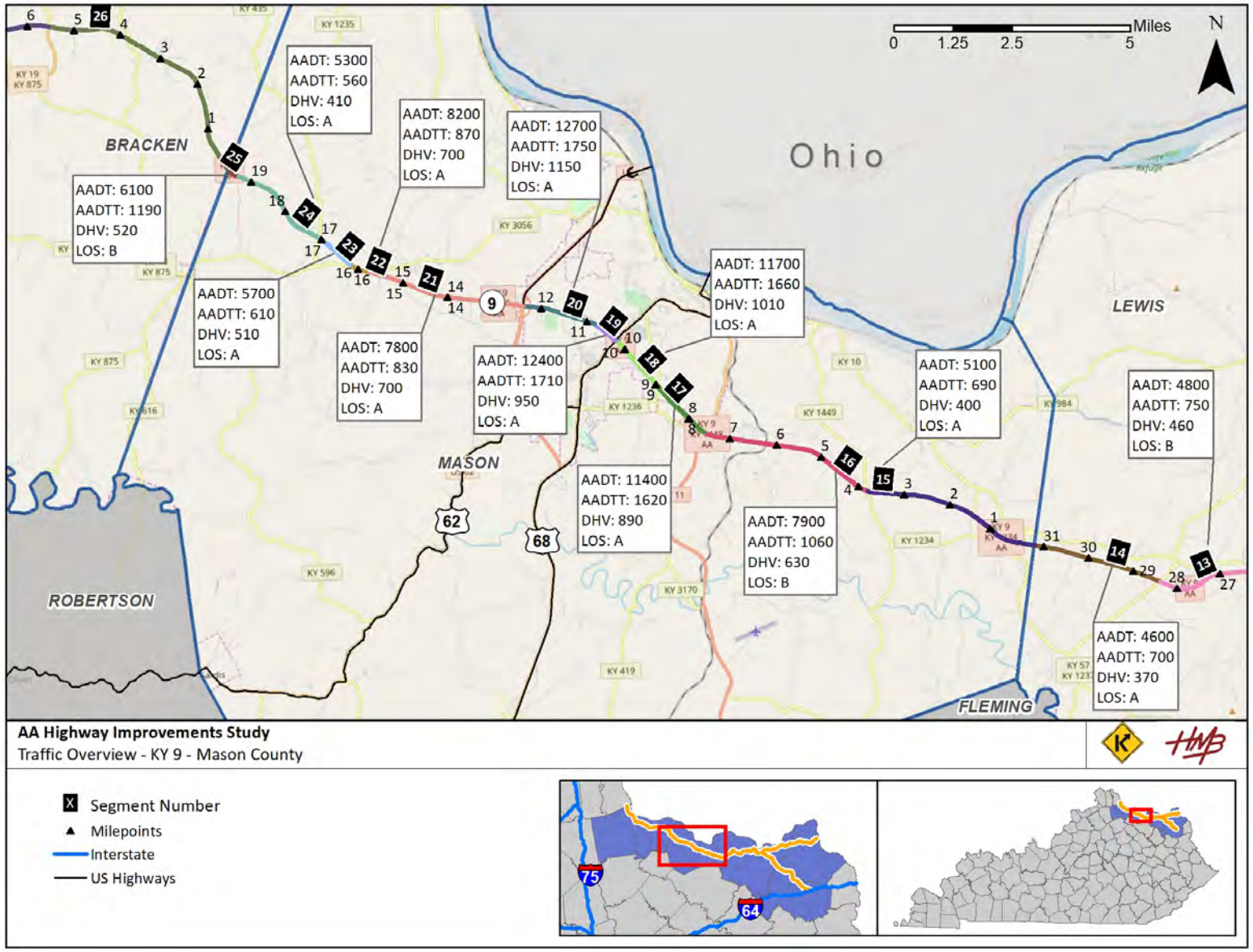
Pendleton / Bracken County



Existing Conditions

Traffic Overview

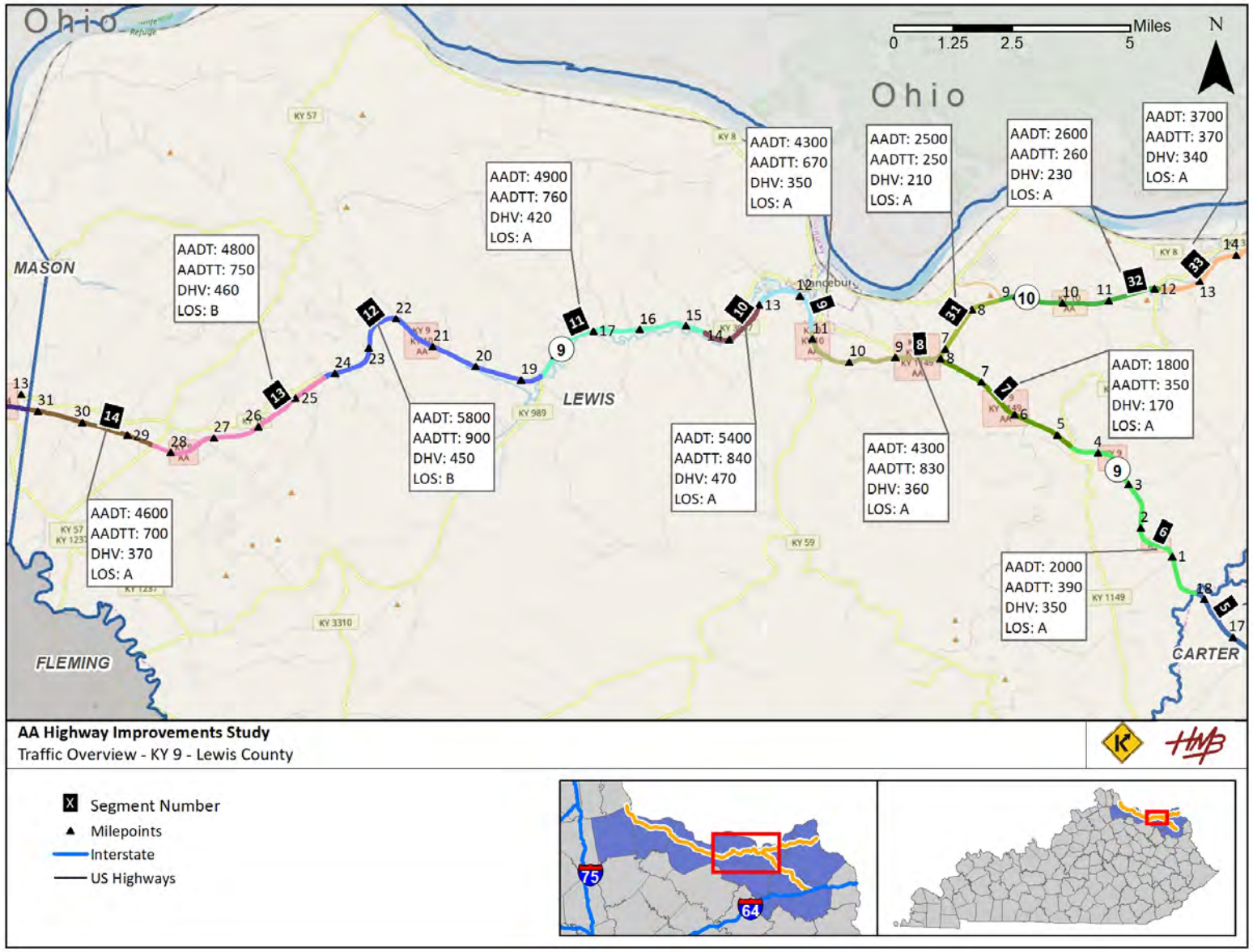
Mason County



Existing Conditions

Traffic Overview

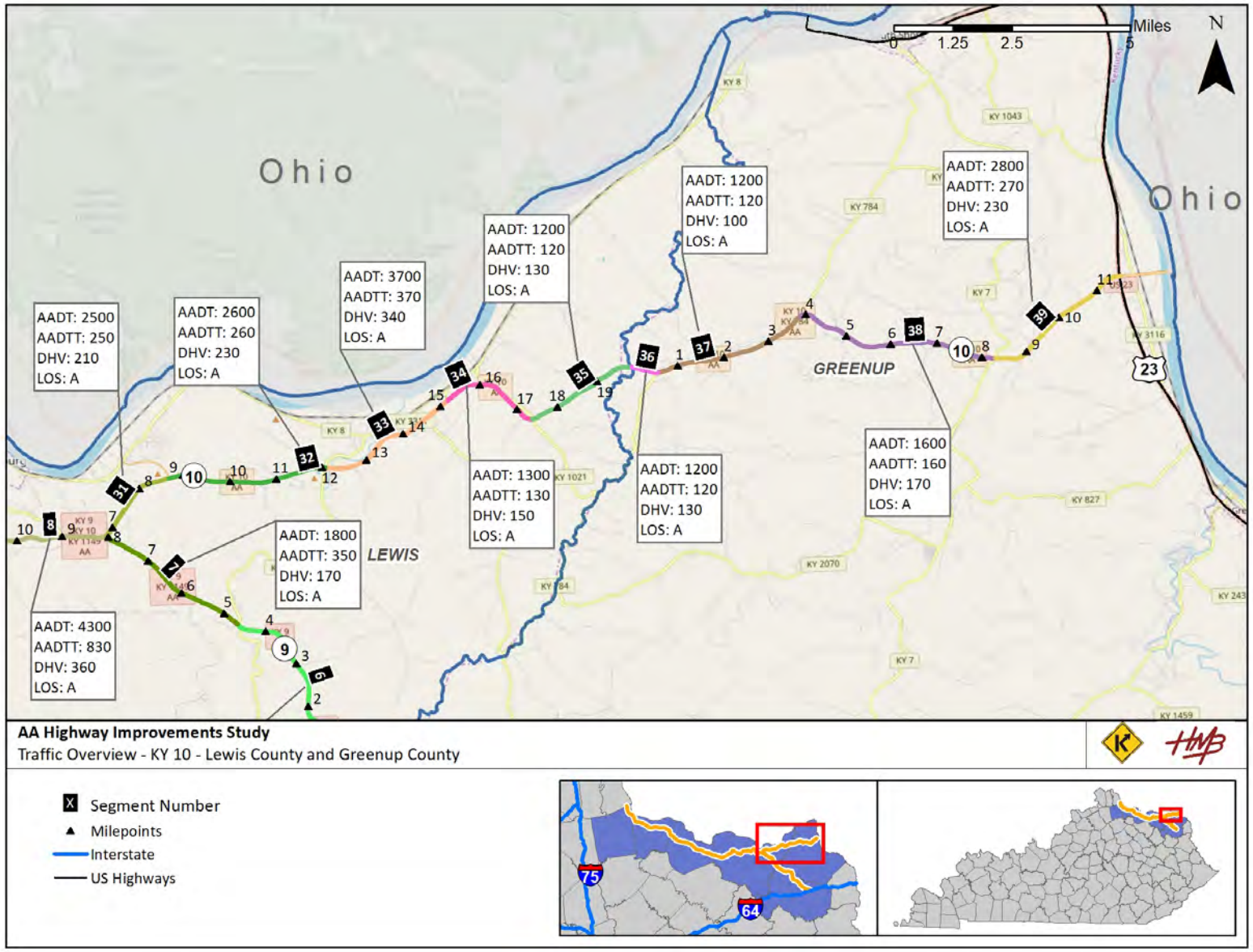
Lewis County



Existing Conditions

Traffic Overview

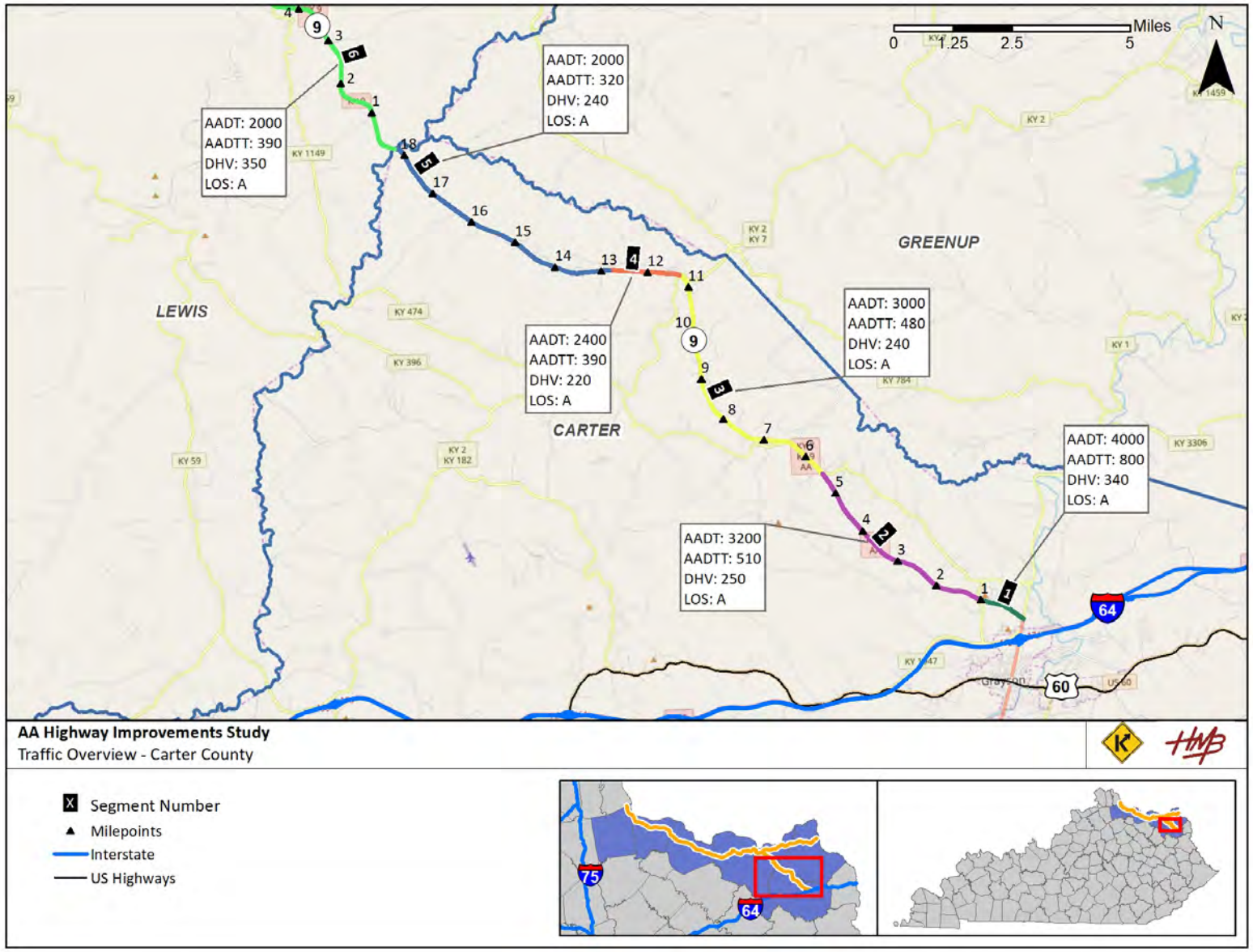
Lewis / Greenup County



Existing Conditions

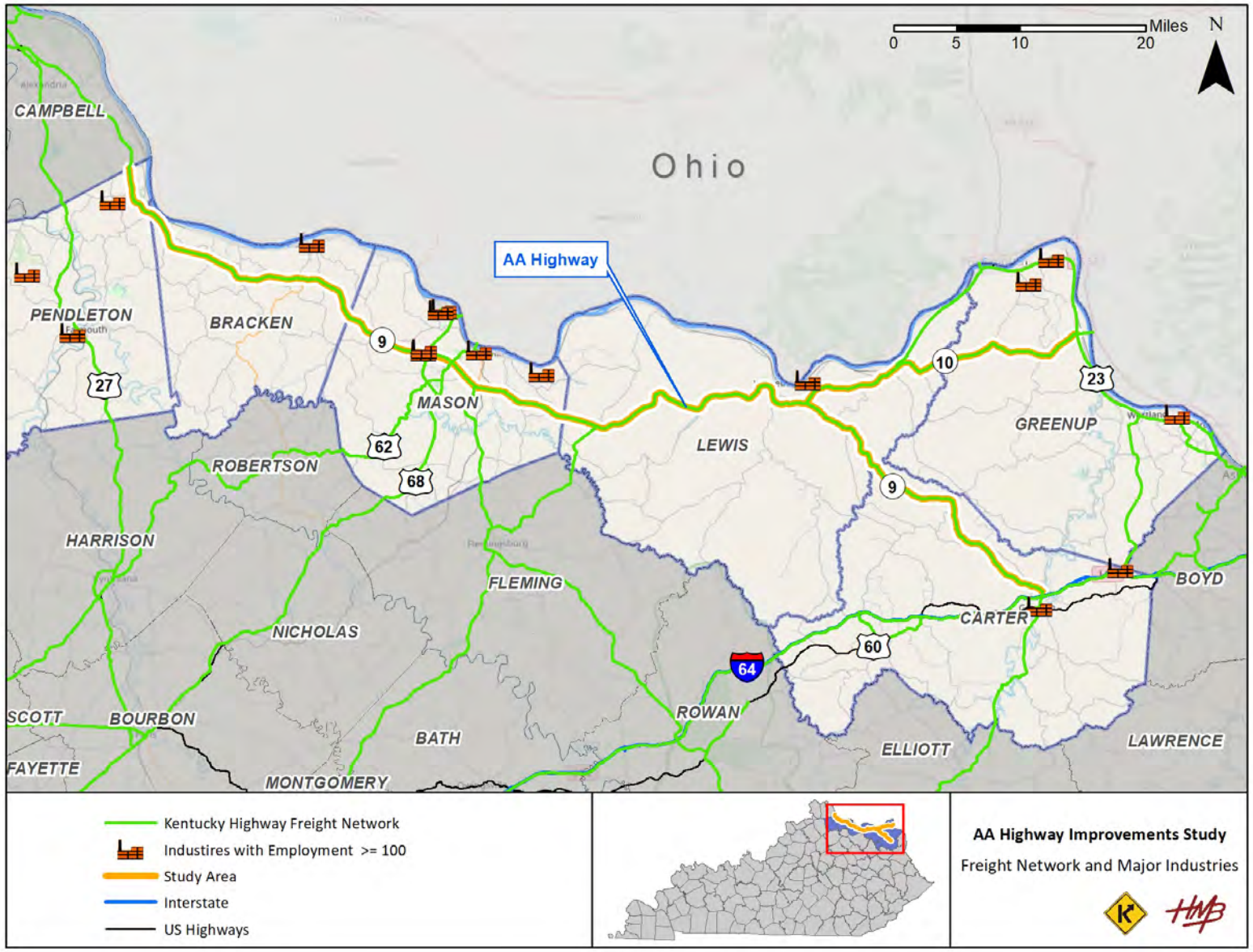
Traffic Overview

Carter County



Existing Conditions

Freight Network and Major Industries



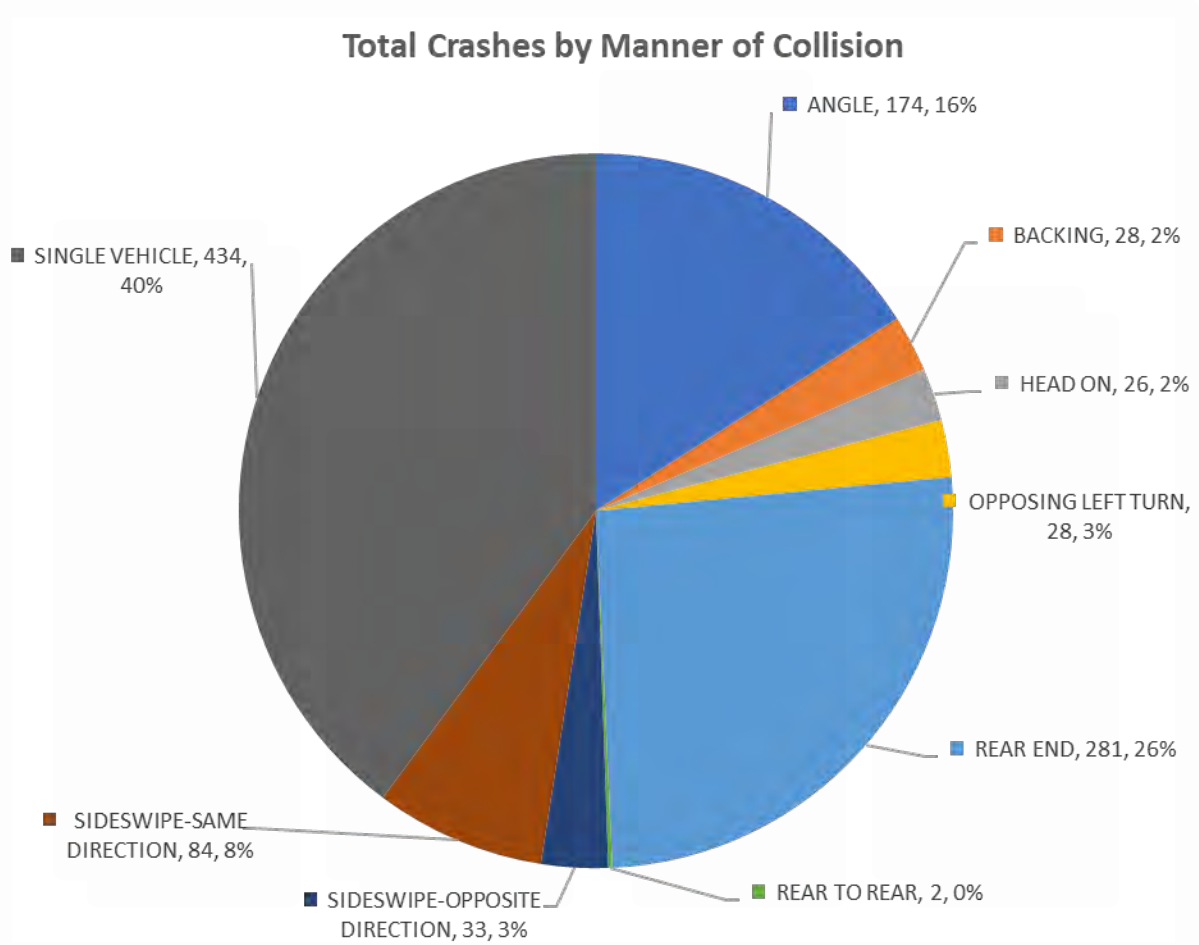
Existing Conditions

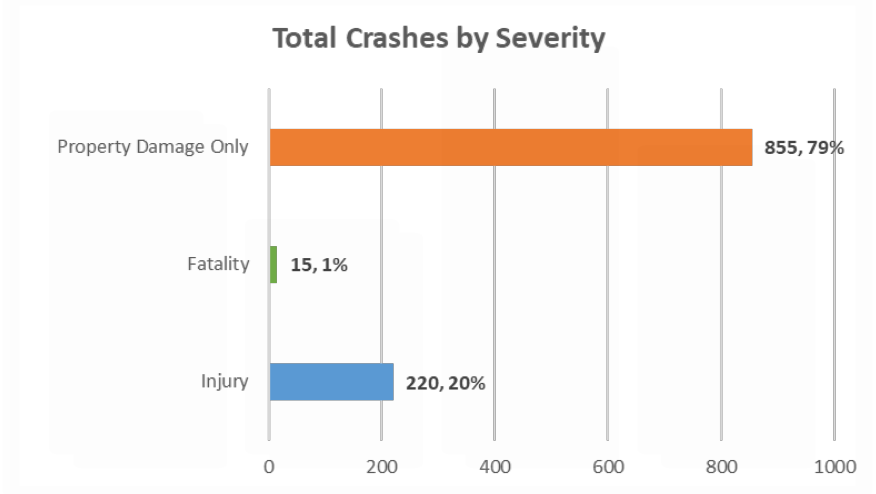
Crash Analysis

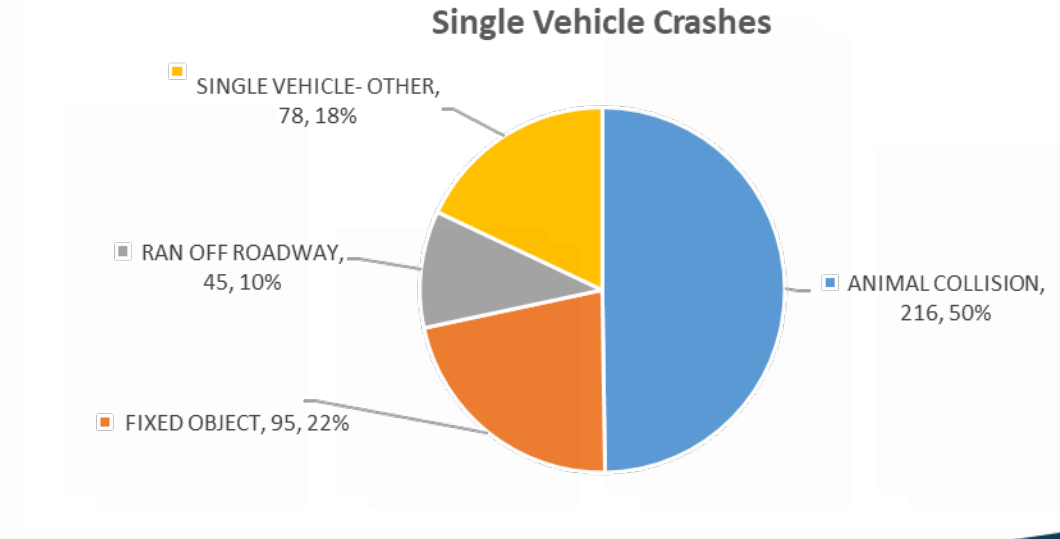
- 5 Years of Data Were Analyzed (November 2014 to October 2019)
  - 1090 Total Crashes (218/year)
- 28 High Crash (0.3 Mile) Spots Were Evaluated Using the CRF Method
  - Majority Occurred in Mason County (16)
- Highest Number of Fatal Crashes Occurred in Lewis County
  - 9 of 15 crashes

Existing Conditions

Crash Analysis







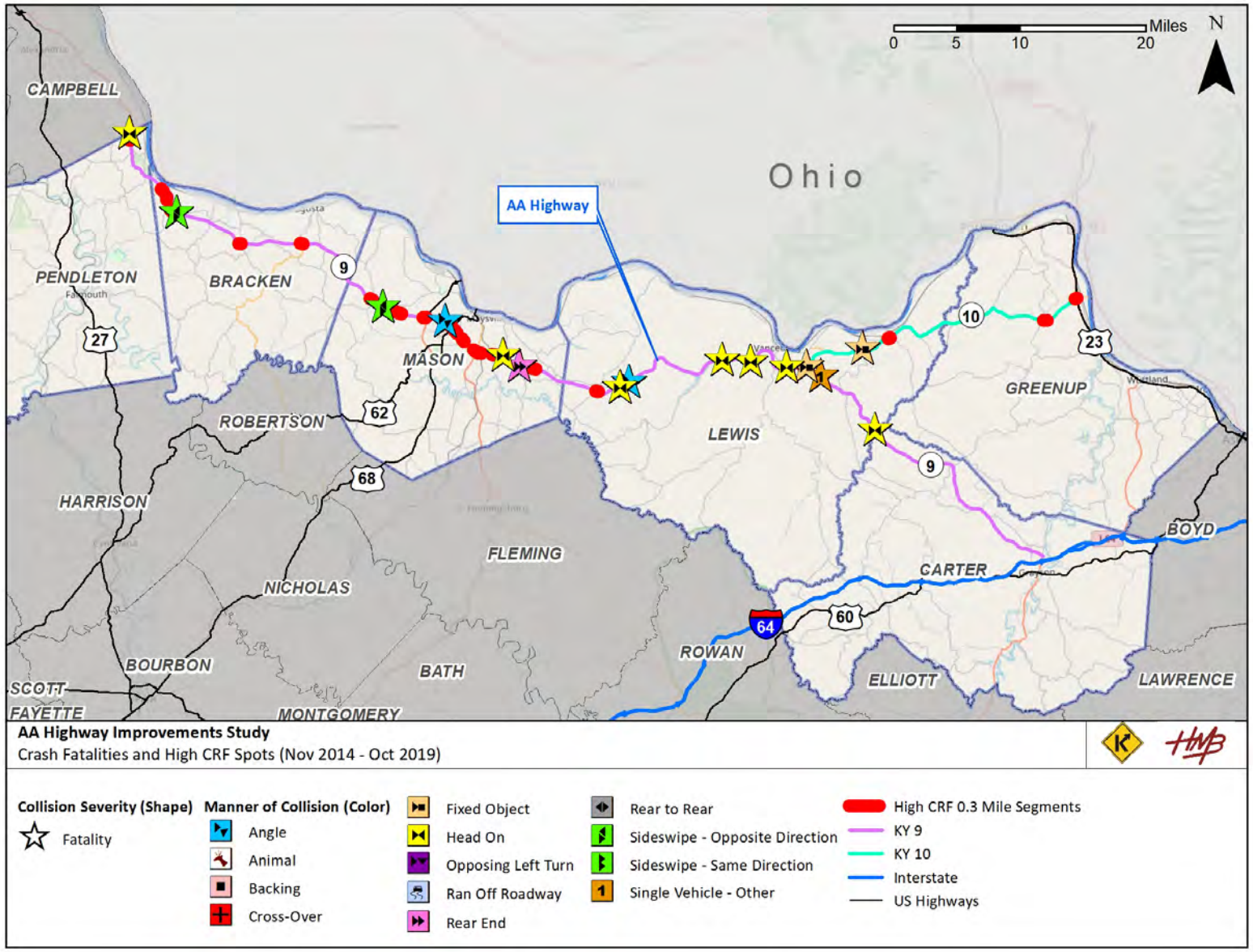
Existing Conditions

Excess Expected Crashes

County	ID	BMP	EMP	Length	AADT	K	A	B	C	O	Total	EEC
Carter	1-5	0.000	18.262	18.262	2,210 – 4,530	0	1	3	7	43	54	-8.73 to -34.71
Lewis	6-14	0.000	31.218	31.218	2,280 – 6,110	7	7	6	16	81	117	-14.40 to -72.53
Mason	15-25	0.000	19.541	19.541	5,700 – 13,720	5	16	35	49	386	491	-20.53 to 55.36
Bracken	26-29	0.000	19.857	19.857	5,460 – 7,160	0	8	10	14	145	177	-22.19 to -54.62
Pendleton	30	0.000	4.339	4.339	7,610	1	1	6	1	31	42	-46.33
Lewis	31 - 35	6.788	19.834	13.046	1,120 – 4,510	1	1	0	5	24	31	-6.74 to -29.85
Greenup	36 – 39	0.000	11.582	11.582	1,120 – 2,860	0	0	2	8	32	42	-1.69 to -13.28

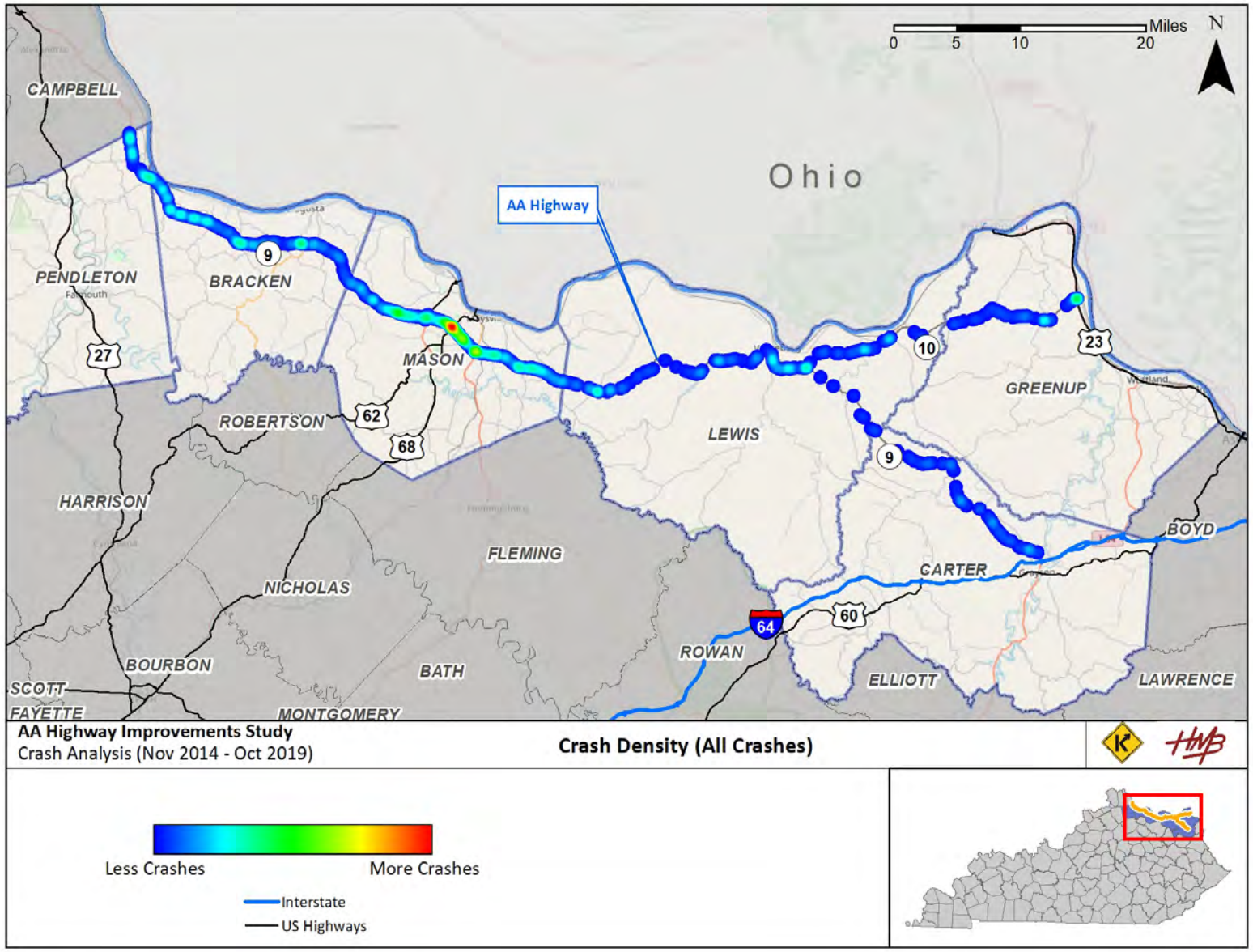
Existing Conditions

High Crash Spots and Fatalities



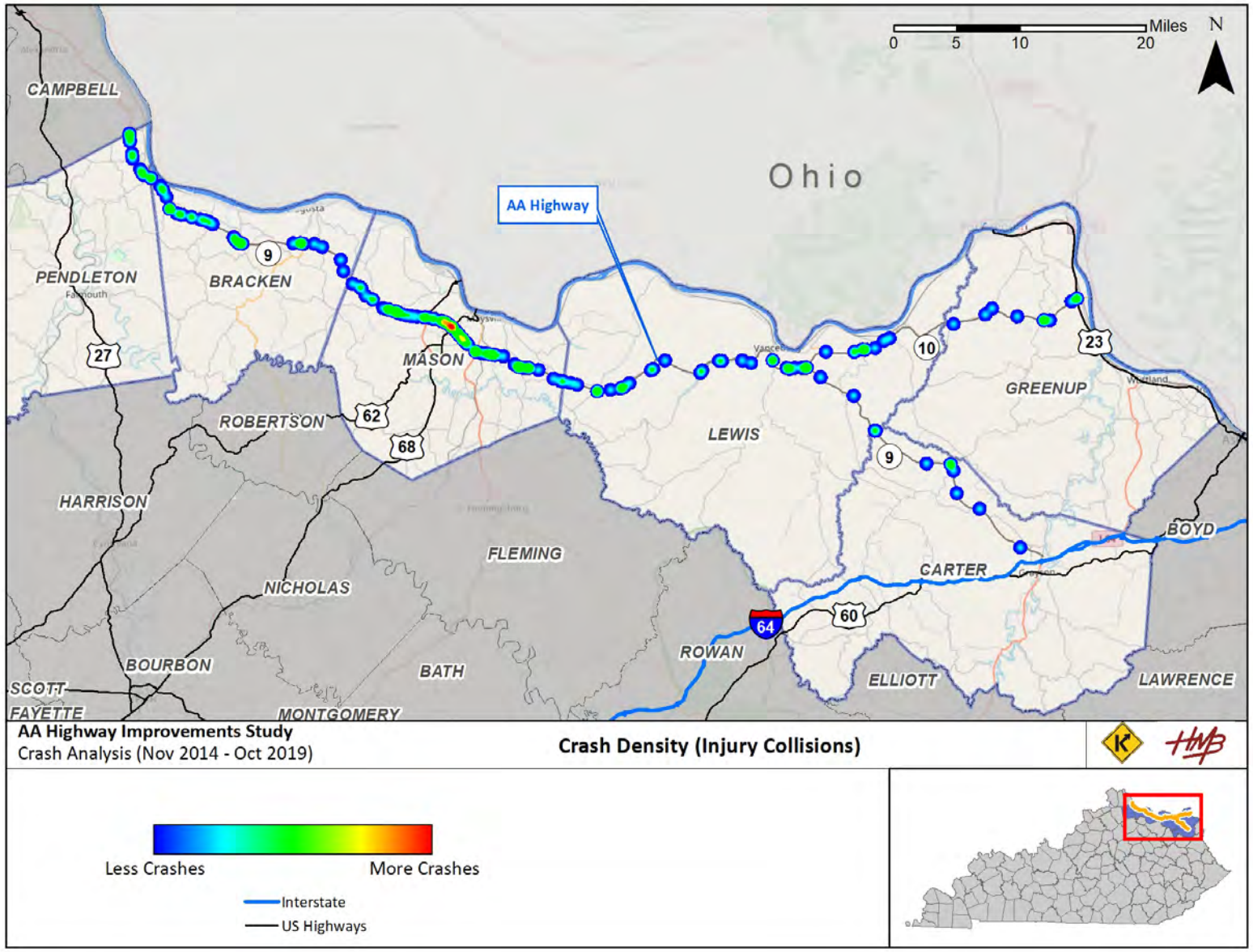
Existing Conditions

Crash Density (All)



Existing Conditions

Crash Density (Injury / Fatal Collision)



Existing Conditions

Field Review



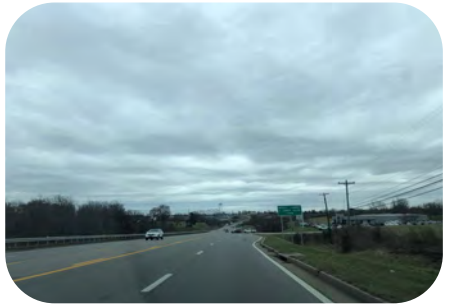
Park and Rides



Lighting



Center / Shoulder Rumble Strips



Typical Section Transitions



Guardrail



Intersection Operations



Pavement

Existing Conditions

Field Review

- Western portion high speed; wider typical section feel.
- Eastern portion more curves; requires more focus of drivers.
- Curb and gutter along guardrail sections; draining issues?
- Large signage.
- Multiple intersections had safety enhancements such as advance warning signals / signage; oversized / dual STOP signs.
- Consistency expectations with climbing lanes adding / dropping in vicinity of intersections.

PRELIMINARY DISCUSSION OF IMPROVEMENT CONCEPTS



KENTUCKY TRANSPORTATION CABINET

Preliminary Improvement Concepts

Concept Categories to Consider

- Turn Lanes
- Widening (Major / Minor)
- Reconstruction
- Pavement / Striping
- Lighting

High value/low impact/low cost concepts that offers significant corridor safety and congestion improvement

LOCAL OFFICIAL / STAKEHOLDER MEETING PREPARATION



Local Official / Stakeholder Meeting Preparation

- Schedule
  - Two rounds of meetings; two meetings per round
  - First meeting held to discuss existing conditions and initial range of potential improvements
  - Second meeting held to discuss recommendations and prioritization
- Invitees
- Meeting No. 1 Objectives
  - Present Study Purpose and Background
  - Present Data Collected
  - Exercise No. 1 – Review Identified Existing and Committed Projects
  - Exercise No. 2 – Identify Strong Places / Weak Places
  - Exercise No. 3 – Identify Existing Major Traffic Generators / Future Planned Development

NEXT STEPS



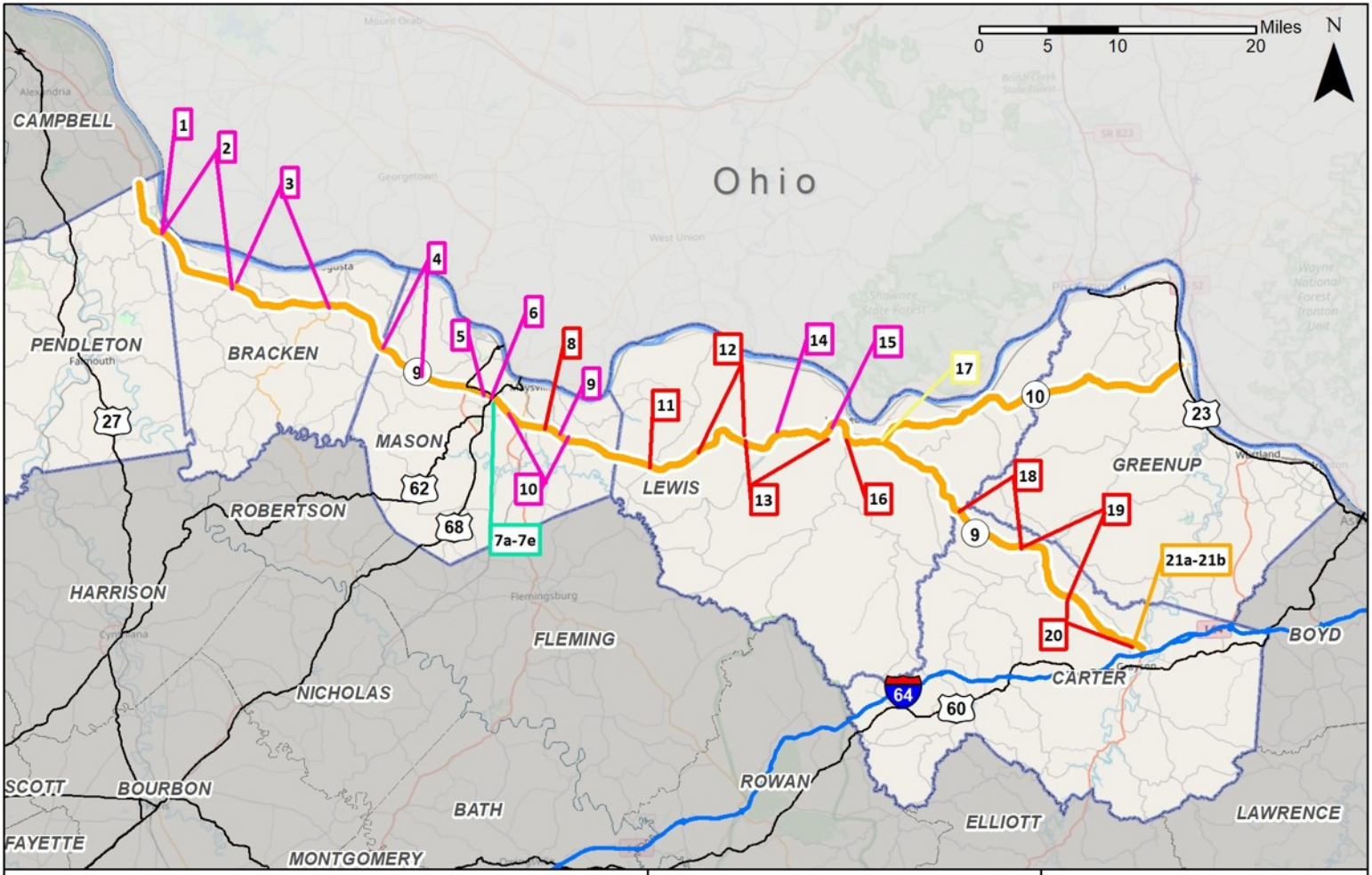
QUESTIONS?



AA Highway Improvements Study
Existing and Committed Projects Matrix

Map ID	Main County	District	ADD/MPO	Project Type	CHAF ID	Item #	Description	Main Route	Mile Points	Length	Work Type	Improvement Type	SUA Project ID	SUA Priority	SUA Local, Short-Term or Long-Term	Region	Rank	Score	Funding	D	R	U	C	Total / Estimate
1	Bracken	6	Buffalo Trace ADD	CHAF	IP20110118	6-8901	IMPROVE SAFETY ALONG KY 2228 FROM KY 9 TO KY 8. (16CCN)	KY 2228	0.000 - 0.287	0.287	SAFETY(P)	Modernize Roadway-Rural	-	-	-	North	-	17.2		-	-	-	-	$770,000
2	Bracken	6	Buffalo Trace ADD	CHAF	IP20070207		Reduce congestion on KY 9 from KY 1109 in Bracken County to KY 159 in Pendleton County	KY 9	13.590 - 19.857	6.267	Major Widening	2 Lane to 4 Lane Divided - Rural	-	-	-	North	243	26.4		-	-	-	-	$110,732,000
3	Bracken	6	Buffalo Trace ADD	CHAF	IP20080277		Reduce congestion on KY 9 in Bracken County from KY 19 to KY 1109.	KY 9	5.546 - 13.590	8.044	Major Widening	2 Lane to 4 Lane Divided - Rural	-	-	-	North	-	24.0		-	-	-	-	$126,258,000
4	Mason	9	Buffalo Trace ADD	CHAF	IP20080553	9-8907	WIDEN KY 9/AA HIGHWAY TO 4 LANES FROM KY 435 TO KY 2370 IN BRACKEN CO. (16CCN)	KY 9	17.343 - 19.541	2.198	MAJOR WIDENING(O)	2 Lane to 4 Lane Divided - Rural	-	-	-	East	153	29.5		$4,160,000	$3,650,000	$5,850,000	$56,940,000	$66,440,000
5	Mason	9	Buffalo Trace ADD	CHAF	IP20160298		Construct right turn lane on NB KY 9 (AA) at intersection of Kenton Station Drive (one of the hospital entrances) to improve safety	KY 9	10.600 - 10.900	0.300	Safety-Haz-Elm	Improve Intersection	-	-	-	East	133	31.8		-	-	-	-	$1,566,000
6	Mason	9	Buffalo Trace ADD	CHAF	IP20170079		Improve safety and operational efficiency of the intersection of KY 9 (AA) and US 62 located in Maysville.	KY 9	10.256 - 10.398	0.142	Safety-Haz-Elm	Improve Intersection	-	-	-	East	8	75.6		-	-	-	-	$2,680,000
8	Mason	9	Buffalo Trace ADD	2018 SYP		9-147.60	NEW FULLY CONTROLLED ACCESS ROUTE FROM KY 11 NORTHEAST TO KY 9 (AA HWY) INCLUDING NEW I-CHNG AT KY 9. (2004BOPC)(06CCR)(18CCN	-	-	2.900	NEW ROUTE (O)	-	-	-	-	-	-	-	SPP	$780,000 (2021)	$1,580,000 (2022)	$1,820,000 (2022)	$33,750,000 (2024)	$37,750,000
9	Mason	9	Buffalo Trace ADD	CHAF	IP20150186		CONSTRUCT RIGHT TURN LANE (SB) INTO CLARKSON SHERMAN ROAD (LANDFILL, 4.740) TO PROVIDE SAFETY FOR MOTORISTS TRAVELING ALONG THE AA HIGHWAY. (MP 4.6 TO MP 4.9)(14CCN) Replaces 09 081 D0009 1.50	KY 9	4.600 - 4.900	0.300	Safety-Haz-Elm	Modernize Roadway-Rural	-	-	-	East	99	40.0		-	-	-	-	$395,000
10	Mason	9	Buffalo Trace ADD	CHAF	IP20160183	9-8908	WIDEN THE AA HIGHWAY TO 4 LANES FROM KY 1449 TO KY 11. (16CCN)	KY 9	3.781 - 7.560	3.779	MAJOR WIDENING(O)	2 Lane to 4 Lane Divided - Rural	-	-	-	East	1	80.4		$2,710,000	$1,950,000	$4,100,000	$31,590,000	$37,640,000
11	Lewis	9	Buffalo Trace ADD	2018 SYP		9-8807.00	RECONSTRUCT KY-57 FROM KY-9 TO FLEMING/LEWIS COUNTY LINE. (14CCN)(16CCR)(18CCN)	KY 57	0.500-4.557	4.057	RELIABILITY / RECONSTRUCTION (O)	-	-	-	-	-	-	-	SPP	$2,100,000 (2022)	$5,200,000 (2023)	$3,400,000 (2023)	$20,000,000 (2024)	$30,700,000
12	Lewis	9	Buffalo Trace ADD	2018 SYP		9-20010.00	ADDRESS PAVEMENT CONDITION	KY 9	21.027 - 25.532	4.505	ASSET MANAGEMENT / AM-PAVEMENT (PRI)(P)	-	-	-	-	-	-	-	PM	$210,000 (2021)	-	-	$2,100,000 (2021)	$2,310,000
13	Lewis	9	Buffalo Trace ADD	2018 SYP		9-20017.00	ADDRESS PAVEMENT CONDITION ON KY-9 FROM MILEPOINT 15.77 TO MILEPOINT 21.03	KY 9	15.770 - 21.030	5.260	ASSET MANAGEMENT / AM-PAVEMENT (PRI)(P)	-	-	-	-	-	-	-	PM	-	-	-	$1,070,000 (2022)	$1,070,000
14	Lewis	9	Buffalo Trace ADD	CHAF	IP20110025		Construct right and left turn lanes at the intersection of KY 989 (MP 18.553) to improve safety and decrease collisions. This intersection has a high volume of turning movements and is located in a long sweeping curve. A Park and Ride is located at	KY 9	18.200 - 18.800	0.600	Safety-Haz-Elm	Improve Intersection	-	-	-	East	143	30.2		-	-	-	-	$1,798,000
15	Lewis	9	Buffalo Trace ADD	CHAF	IP20080547	9-8808	RECONSTRUCT INTERSECTION AT KY-9 AND KY-2523. (14CCN)	KY 9	12.709 - 12.789	0.080	RECONSTRUCTION(O)	Improve Intersection	-	-	-	East	173	26.1		-	-	-	-	$1,700,000
16	Lewis	9	Buffalo Trace ADD	2018 SYP		9-231.00	RECONSTRUCT KY-59 FROM KY-9 (AA) IN VANCEBURG TO JUNCTION OF KY-344 MP 18.1 TO MP 23.19.(16CCN)(18CCN	KY 59	18.100 - 23.190	5.090	RECONSTRUCTION(O)	-	-	-	-	-	-	-	SPP	$6,000,000 (2021)	$5,000,000 (2022)	$3,000,000 (2023)	$40,000,000 (2024)	$54,000,000
17	Lewis	9	Buffalo Trace ADD	HSIP		9-9007..20	CONSTRUCT A RIGHT TURN SLIP LANE AND RECONSTRUCT THE FLASHING BEACON AT THE INTERSECTION OF KY 9 & KY 10 EAST OF VANCEBURG. (2018BOP)	KY 9	7.900 - 8.200	0.300	Safety-Haz-Elm	-	-	-	-	-	-	-		-	-	-	-	$150,000 (Letting 9/20/2019, Completion by 6/30/2020)
18	Carter	9	FIVCO	2018 SYP		9-20007.00	ADDRESS PAVEMENT CONDITION	KY 9	14.980 - 18.262	3.282	ASSET MANAGEMENT / AM-PAVEMENT (PRI)(P)	-	-	-	-	-	-	-	PM	$150,000 (2021)	-	-	$1,500,000 (2021)	$1,650,000
19	Carter	9	FIVCO	2018 SYP		9-20008.00	ADDRESS PAVEMENT CONDITION	KY 9	6.980 - 14.985	8.005	ASSET MANAGEMENT / AM-PAVEMENT (PRI)(P)	-	-	-	-	-	-	-	PM	$350,000 (2021)	-	-	$3,500,000 (2021)	$3,850,000
20	Carter	9	FIVCO	2018 SYP		9-20006.00	ADDRESS PAVEMENT CONDITION	KY 9	0.000 - 6.980	6.980	ASSET MANAGEMENT / AM-PAVEMENT (PRI)(P)	-	-	-	-	-	-	-	PM	$320,000 (2021)	-	-	$3,200,000 (2021)	$3,520,000
21a	Carter	9	FIVCO	Grayson SUA (2018)			District 9 will review signage/striping for KY 9 in advance of the intersection with KY 1, but no improvement project is recommended.	KY 9	-	-	-	-	H	High	Short-Term	-	-	-		-	-	-	-	$0
21b	Carter	9	FIVCO	Grayson SUA (2018)			Construct a new 0.360-mile-long, two-lane roadway connecting CW Stevens Boulevard north to KY 9 at KY 1. (Section 1 of 3.)	-	-	-	-	-	J	High	Long-Term	-	-	-		-	-	-	-	$3,000,000
7a / 5*	Mason	9	Buffalo Trace ADD	Maysville SUA (2018)			1. Add right-turn lane on KY 9 at hospital entrance, and /or 2. Extend 45 mph speed limit.	KY 9	-	-	-	-	M	High	Long-Term	-	-	-		-	-	-	-	$1,190,000
7b / 6	Mason	9	Buffalo Trace ADD	Maysville SUA (2018)			Reduce lane widths and add turn lanes where possible at the intersection of KY 9 and US 62. PIF No. 09 081 B0062 1.00	KY 9 / US 62	-	-	-	-	EE	High	Long-Term	-	-	-		-	-	-	-	$2,568,000
7c	Mason	9	Buffalo Trace ADD	Maysville SUA (2018)			Improve KY 9 transition from four lanes to two lanes between KY 11 and Strodes Run Pike.	KY 9	-	-	-	-	L	High	Short-Term	-	-	-		-	-	-	-	$20,000
7d	Mason	9	Buffalo Trace ADD	Maysville SUA (2018)			Reconfigure Market Square Drive/Tucker Drive/Walmart Way intersection. Eliminate left turns from Tucker Drive to KY 9, and relocate Market Square Drive 500 feet west	-	-	-	-	-	T	Medium	Local	-	-	-		-	-	-	-	$830,000
7e / 10	Mason	9	Buffalo Trace ADD	Maysville SUA (2018)		9-8908.00	Widen KY 9 to four lanes from KY 1449 to KY 11. SP (State funds: 2017 Design funds on hold	KY 9	-	-	-	-	X	Medium	Long-Term	-	-	-		-	-	-	-	$31,600,000

* Part 1 of Maysville SUA Project M (7a) is listed in the CHAF system as IP20160298 (5). Part 2 (Extend 45 mph speed limit) is TBD



Project Type

- Interstate
- US Highways
- Study Area
- CHAF
- 2018 SYP
- HSIP
- Maysville SUA (2018)
- Grayson SUA (2018)



AA Highway Improvements Study

Existing and Committed Projects

FINAL Meeting Minutes

Project: **AA Highway Improvements Study**

Subject: **Local Officials / Stakeholder Meeting No. 1**

Note: The Local Officials / Stakeholder Meeting No. 1 was split into two consecutive meetings due to the length of the study corridor. The date, location, and list of attendees are shown for each. However, the summary and input from both is summarized together due to similarity between the meetings and the method of input received.

First Meeting:

Date: **Monday, February 17, 2020, 9:00 AM (Eastern Time)**

Location: **FIVCO Area Development District Office**

Attendees:

Beth Niemann	KYTC Central Office Planning
Steve Ross	KYTC Central Office Planning
Steve Gunnell	KYTC District 9 Chief District Engineer
Darrin Eldridge	KYTC District 9 Project Development
Karen Mynhier	KYTC District 9 Environmental
Matt Dillon	KYTC District 9 Planning
Michael Read	KYTC District 9 Planning
Vicki Green	FIVCO
Gayle D Smith	FIVCO
Jacob Perkins	FIVCO
Kelly Ward	FIVCO
Carley Carver	FIVCO
Sherry McDavid	FIVCO
Eric Patton	FIV7 CO
Terri Sicking	KYOVA
Tom Bradley	Vaughn & Melton
Taylor Duncan	City of Olive Hill
Duane Suttles	City of Grayson
Ronnie Cooley	Carter County Schools
Erica Kiser	Knott County Schools
Chris Perry	Carter Caves State Park
Garth Wireman	Greenup County Public Safety
Bobby Carpenter	Greenup County Judge Executive
Mike Malone	Carter County Judge Executive
Willis C Johnson	City of Grayson (For George Steele, Mayor)
Buford Hurley	Greenup County 911
Jim Skaggs	Elliott County EM
Lindsay Walker	HMB
Brad Johnson	HMB
Jarrod Johnson	HMB
John Callihan	AECOM

Second Meeting:

Date: **Tuesday, February 18, 2020, 1:00 PM (Eastern Time)**

Location: **Buffalo Trace Area Development District Office**

Attendees:

Stephen De Witte	KYTC Central Office Planning
Kevin Sandefur	KYTC Central Office Design
Steve Gunnell	KYTC District 9 Chief District Engineer
Darrin Eldridge	KYTC District 9 Project Development
Karen Mynhier	KYTC District 9 Environmental
Michael Read	KYTC District 9 Planning
Dane Blackburn	KYTC District 6 Planning
Amy Kennedy	BTADD
Missy Hardy	BTADD
Earl Bush	Augusta-Brooksville-Bracken County IDA
Owen McNeil	Maysville-Mason County IDA
Bill Mitchell	Pendleton County IDA
Todd Ruckel	Lewis County Judge Executive
Joe Pfeffer	Mason County Judge Executive
Tina K Teegarden	Bracken County Judge Executive
Scotty Lippert, Jr.	Bracken County Magistrate
Clay Buser	Mason County EMS
Matt Wallingford	City of Maysville Manager
Charles T. Cotterill	City of Maysville Mayor
Craig Miller	Bracken County Fiscal Court
Joe McKay	Mason County Fiscal Court
Jeff Aulick	Bracken County Schools Superintendent
Joe Buerkley	Pendleton County Schools Superintendent
Mike Moore	Pendleton County EMA
David Fields	Pendleton County Judge Executive
Courtney Kleier	NKY Chamber of Commerce
Bill Shugars	Shugars Supply, BTADD
Stephanie Hopper	Hospice of Hope
Bill Boggs	BTADD – State Farm Insurance Agent
Craig A. Stanfeild	BTADD – Real Estate & Auction Services
Lindsay Walker	HMB
Brad Johnson	HMB
Joey Mosley	HMB
John Callihan	AECOM

Attachments:

- *Meeting Agenda*
- *Handouts*
- *Presentation*

Agenda / Handouts:
To facilitate the meetings the following materials were provided and are included as an attachment to these meeting minutes.

- Agenda
- Presentation Maps
- Presentation Slides

Meeting Comments / Summary:

Lindsay Walker of HMB began the meeting with introductions, and then began the presentation facilitated by a PowerPoint presentation and handouts. The presentation concluded and HMB opened the floor to any questions or comments from attendees.

KYTC made a comment at both meetings regarding a project identified in a Small Urban Area (SUA) study in Grayson that was brought forth only 2.5 – 3 years ago and is almost ready to be let to construction. The point was that by considering smaller short-term type improvements, it is possible that projects identified in the AA Highway Improvements Study could be let relatively quick.

KYOVA asked if all presentation slides and not just those in the handout would be available to attendees. HMB will email attendees the presentation slides.

HMB segued the meeting into a group exercise with the purpose of gaining input via a web mapping application facilitated by project team members. HMB explained the application and began the exercise. Attendees were given until COB Tuesday, February 25, 2020 to provide further input themselves. HMB provided the web mapping application website link to attendees which is:

https://hmbpe.maps.arcgis.com/apps/webappviewer/index.html?id=35910d0364ab47f0afb6327206b52291

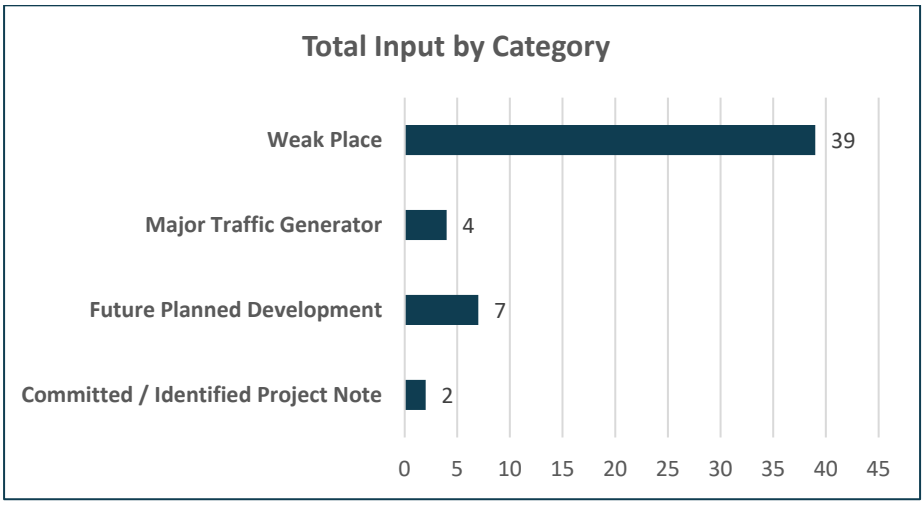
The link was also emailed to invitees that were not able to attend with the help of FIVCO and Buffalo Trace ADDs. Overall, 52 spots were identified with the tool. Results gathered from the input are presented as follows:

Location markers and comments were requested in the following categories:

- Comments on Committed and Identified Projects
- Locations of Major Traffic Generators and Future Planned Development
- Location of Strong Places (Locations or transportation elements that work well)
- Location of Weak Places (Locations or transportation elements that need improvement)

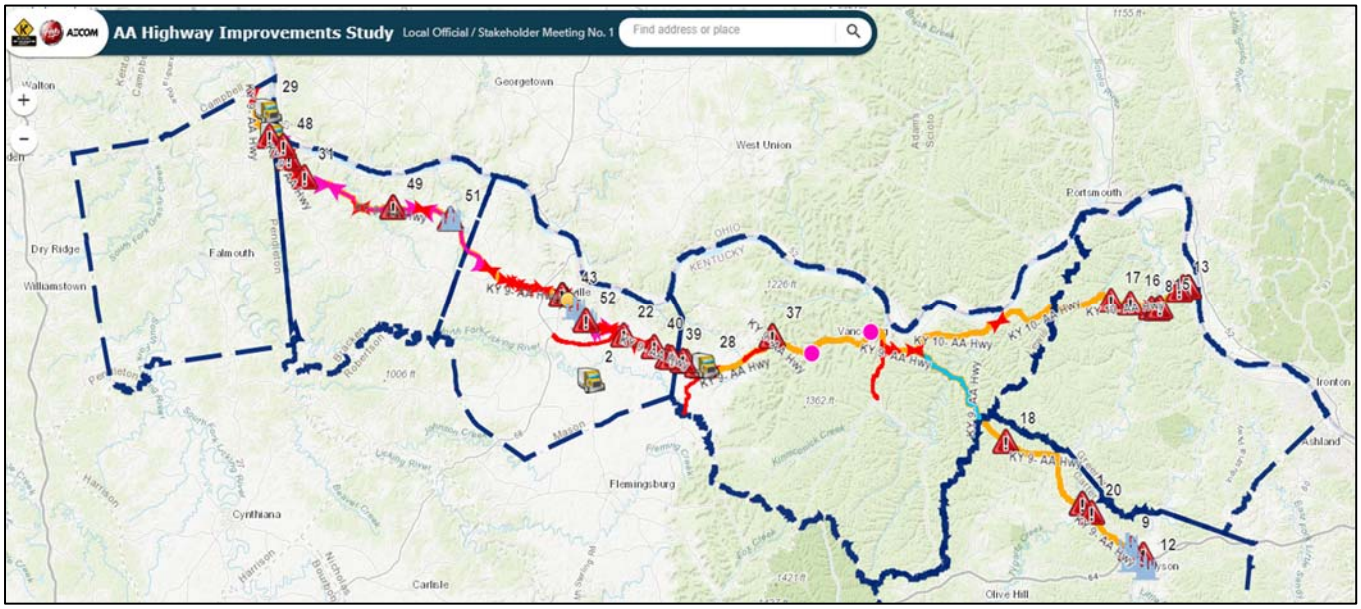
The following graph shows the distribution of these markers. It should be noted that no Strong Places were identified.

Number of Input Markers



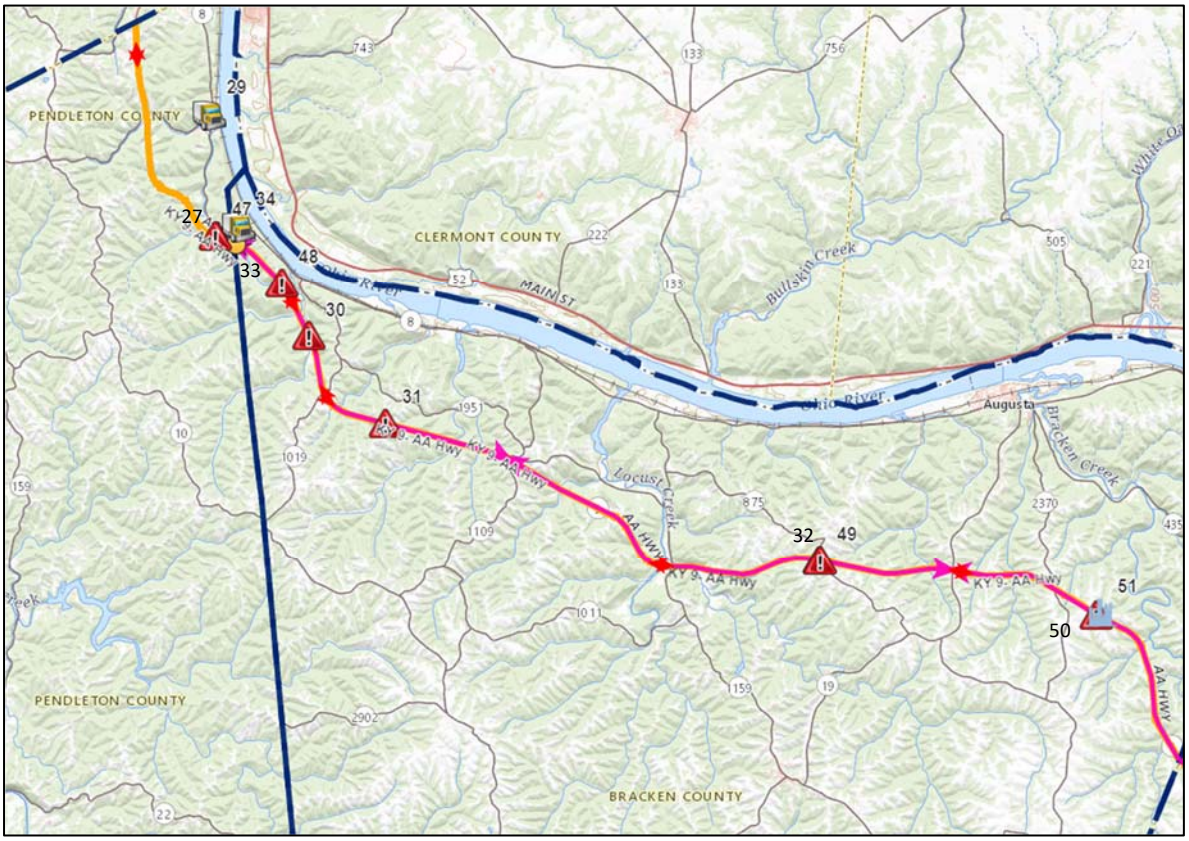
The screenshots on the following pages show the locations of these markers.

Overview

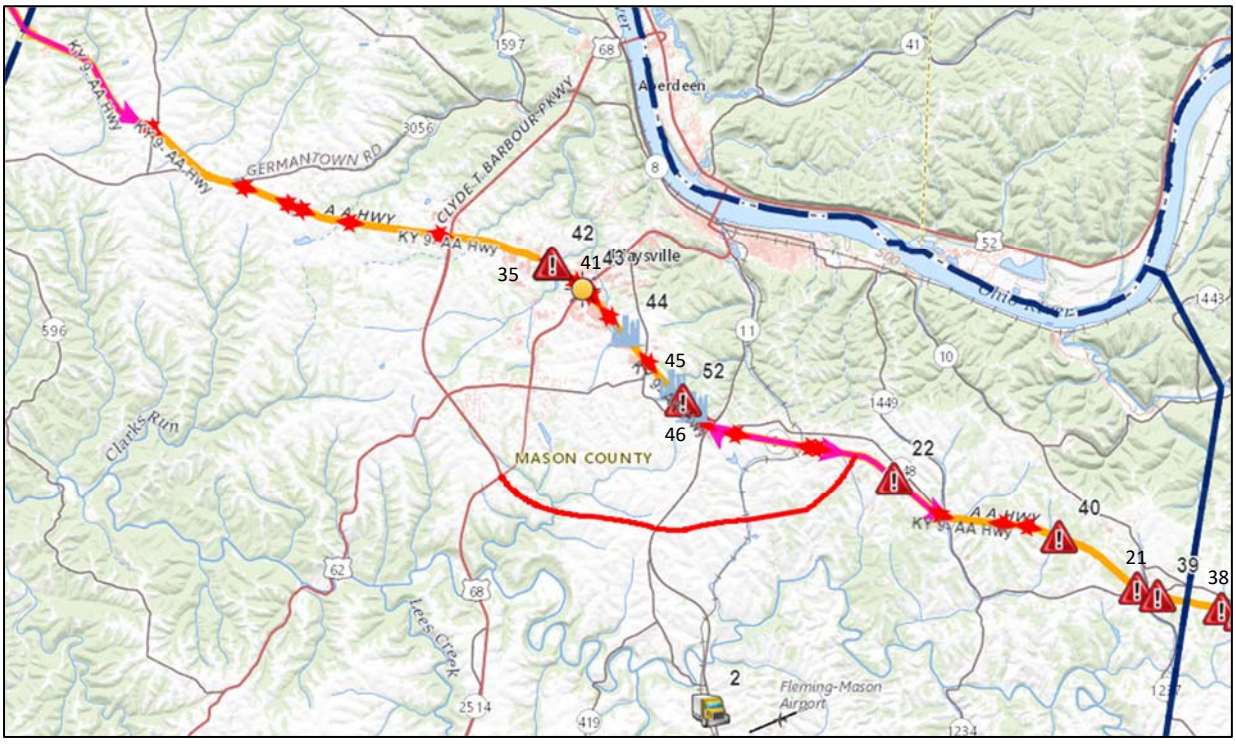

AA Highway Improvements Study
Local Official / Stakeholder Meeting No. 1
Find address or place
Georgetown
West Union
Portsmouth
Dry Ridge
Falmouth
Williamstown
Flemingsburg
Cynthiana
Carlisle
Ironton
Ashland
Clive Hill


Legend
Input Categories
Committed / Identified Project Note
Future Planned Development
Major Traffic Generator
Strong Place
Weak Place
High Crash Areas
Committed Projects
2018 SYP
HSIP
Preventative Maintenance
CHAF 2020 Sponsored Projects - Intersections
CHAF 2020 Sponsored Projects - Segments
Study Area Counties

Pendleton and Bracken Counties



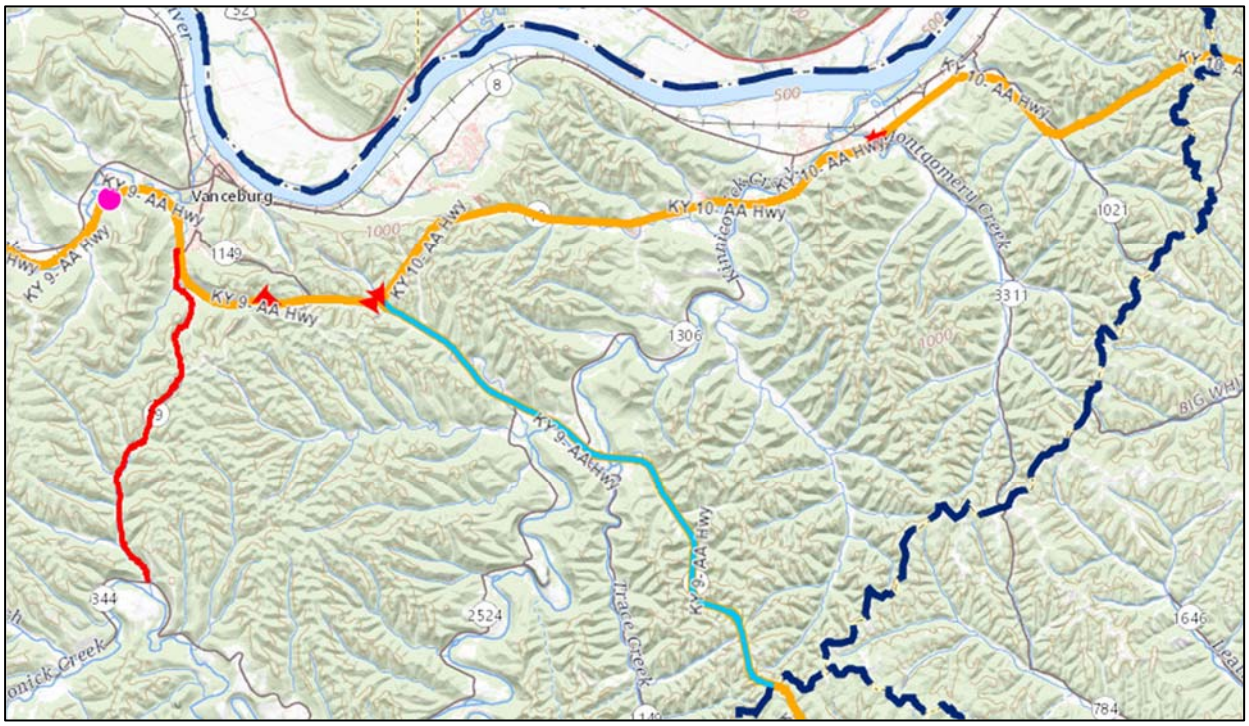
Mason County



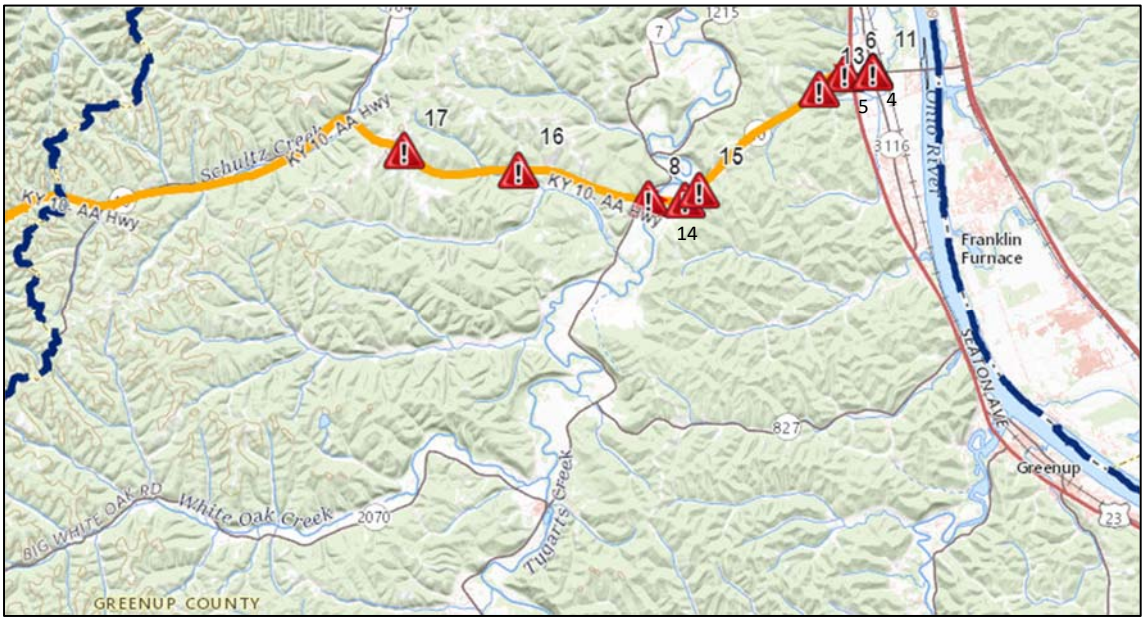
Lewis County



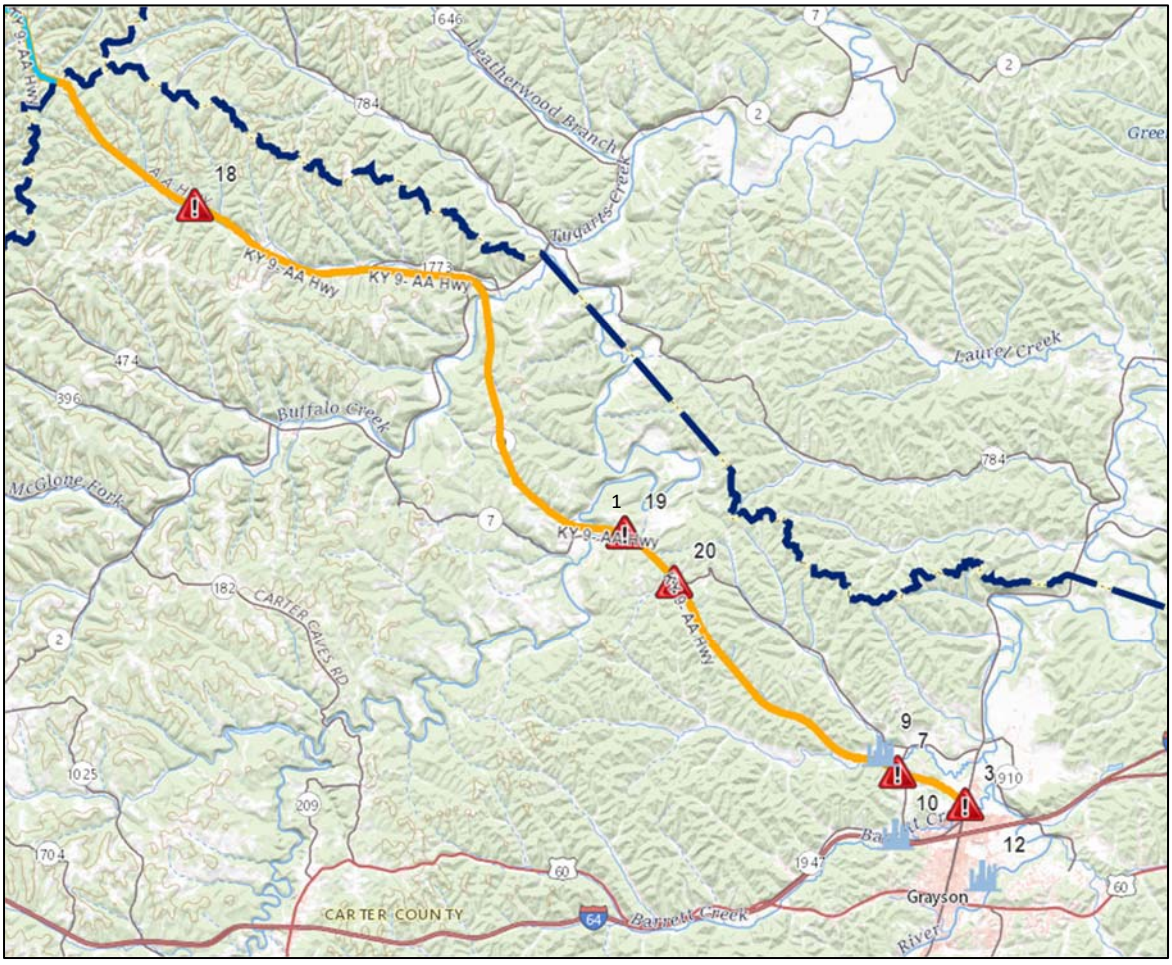
Lewis County (cont.)



Greenup County



Carter County



The following table includes comments as they were written for each marker. ID's are listed by when they were placed.

Detailed Input

ID	Category	Comment	Comment 2
33	Committed / Identified Project Note	D6 Taking Over - Add Turn Lanes	County getting 2228
43	Committed / Identified Project Note	Concentrate congestion and safety improvements to the US 62/KY 9 intersection.	Similar to above, make improvements to the entire corridor of KY 9 from US 62 to KY 11. This is where future commercial/industrial development will take place. Scratch the extended bypass project, and utilize those funds for existing corridor issues..
9	Future Planned Development	Potential Distillery	Discussion of Wal-Mart someday
10	Future Planned Development	Would be best for Walmart or similar	At city limits can be annexed
12	Future Planned Development	New sports complex	Opening Fall 2020
44	Future Planned Development	Future commercial development	
45	Future Planned Development	Future commercial/industrial development	
46	Future Planned Development	Existing industrial park	Focus encroachment and utility upgrades in this area.
51	Future Planned Development	Industrial Park Recruiting businesses. Hopefully by this year	Turn lanes each direction
2	Major Traffic Generator	Lot of people use this route (KY 11) to get to the AA Hwy from Morehead, West Carter County, Fleminsgburg rather than 64	
28	Major Traffic Generator	Farm Center generates lots of truck traffic.	Fairgrounds generates lots of event traffic.
29	Major Traffic Generator	Mine	Truck Traffic
34	Major Traffic Generator	Truck Traffic	
1	Weak Place	Willis Johnson - collisions at this intersection. Fatalities - Coming down grade, curve, left turn onto KY 7, to turn lane.	
3	Weak Place	Right lane drops. Some trucks miss the left turn onto the AA. No good place for trucks turn around.	Sherry McDavid - FIVOC
4	Weak Place		
5	Weak Place	High crash location. consider overhead lighting. consider traffic signal. Something to address fog conditions.	
6	Weak Place	Coming down grade to US 23, something needed to alert drivers that traffic signal is ahead. Maybe rumble strips across road. Some kind of advance warning. Maybe flashing lights.	Fog is also an issue along US 23 near the river.
7	Weak Place	Transition from 1-lane to 2-lane, and turn lanes/merging	Lighting, no caution lights
8	Weak Place	Overhead lights. Many crashes at this intersection.	Greenup Co. Public Safety - Buford Hurlay

Detailed Input (cont.)

ID	Category	Comment	Comment 2
11	Weak Place	CJE Bobby Carpenter considers this one of the county's worst areas. A study was done at one time about this. Traffic coming from Ohio is high speed. intersection is a problem	
13	Weak Place	Delineator posts - reflectors on posts to mark where side roads approach AA.	
14	Weak Place	Delineator posts - reflectors on posts to mark where side roads approach AA	
15	Weak Place	Delineator posts - reflectors on posts to mark where side roads approach AA	
16	Weak Place	Delineator posts - reflectors on posts to mark where side roads approach AA	
17	Weak Place	Delineator posts - reflectors on posts to mark where side roads approach AA	
18	Weak Place	Grayson Spur and this side of AA has smaller signage than elsewhere on the AA. Needs to be consistent.	
19	Weak Place	Sight distance issue. People passing. No truck lane	
20	Weak Place	Transition right at intersection from 2-lane	
21	Weak Place	Traveling west, it appears you have a turn lane for KY 1234, but you don't. This is a safety issue. Rear-end collisions. people cross onto the shoulder.	Craig Stanfield
22	Weak Place	Turn lanes needed on AA for landfill.	
23	Weak Place	coming from west, this is currently a passing zone. This needs to be changed to no passing zone due to intersection.	
24	Weak Place	Pavement issue - center rutting issue - related to pavement markers.	
25	Weak Place	throughout corridor, crack sealing covers pavement stripes causing safety issue especially at night	
26	Weak Place	Lack of Vehicle Enforcement - truck traffic enforcement. through whole corridor	
27	Weak Place	Transition issue? Extend Two NB Lanes?	
30	Weak Place	Turn Lanes	

Detailed Input (cont.)

ID	Category	Comment	Comment 2
31	Weak Place	Turn Lanes	
32	Weak Place	Turn Lanes	
35	Weak Place	Intersection improvements needed at hospital. Advanced warning might not be effective because of queing issue.	Trucks might not have time to stop, even though there is advanced warning, the back-up of traffic makes this ineffective.
36	Weak Place		
37	Weak Place	Short Passing Lane	
38	Weak Place	Simple fix. Simply make a no passing zone until AFTER the Garrad Road Turnoff (only needed for Eastbound Lane).	People plan to pass, maybe 2 or 3 cars back on this straight-stretch, speed up, pull into the left lane, only to then realize that the car 3 cars up is preparing to turn left (and they have already sped up and moved into the passing lane).
39	Weak Place	When traveling east, road widens for KY 1237 turns. HOWEVER when traveling west, road appears wide w/ a turning lane, but instead road narrows w/out turning lane for KY 1234. Many near miss rear end collisions, with cars moving to shoulder to avoid wreck	This road has quite a bit of traffic, access to Olivet Church/Cemetery and onto Orangeburg. A turn lane for east bound onto KY 1234 would improve safety.g lane.
40	Weak Place	Crack sealing great and economical way to lengthen effective life of pavement. However the cracks typically disrupt the lane paint, Painting the lanes after crack-sealing would improve visibility/safety.	At night, especially if rainy, the lanes are hard to make out after crack-sealing. Repainting the lines would be a big plus.
41	Weak Place	In addition to the comment about traffic queueing the the potential signal/AWS issues, this location needs a right turn lane. District Nine is going to survey the location and work up an estimate.	
42	Weak Place	add right turning lane to hospital/multiple MD offices/fire station/etc	
47	Weak Place	Extend truck lane	
48	Weak Place	Need turn lanes	
49	Weak Place	Tight Guardrail, turcks turn distr.	
50	Weak Place	Hook Lane - Fishing / Horse trails. Turning Horse Trailers	
52	Weak Place	Reduce speed limit on KY 9 from KY 11 to KY 3071 from 55mph to 45 mph	Just had another fatality of 2/24/20

AGENDA

AA Highway Improvements Study

Local Official / Stakeholder Meeting No. 1

February 17, 2020, 9:00 AM

FIVCO Area Development District

Grayson, Kentucky

I. Presentation of Study
   - A. Study Background
   - B. Study Objective / Goals
   - C. Existing Conditions Overview
   - D. Improvement Concept Categories

II. Focus Group Activities
   - A. Exercise No. 1 – Review of Committed and Identified Projects
   - B. Exercise No. 2 – Identify Existing Major Traffic Generators and Future Planned Development
   - C. Exercise No. 3 – Identify Strong Places / Weak Places

III. Next Steps / Wrap Up
   - A. Questions
   - B. Next Meeting Date

SIGN-IN SHEET

AA Highway Improvements Study

Local Officials / Stakeholder Meeting No. 1 (February 17, 2020)

Attendees:

Name	Agency	Email	In Attendance?
Stephen DeWitte	KYTC – CO	Stephen.DeWitte@ky.gov	
Beth Niemann	KYTC – CO	Elizabeth.Niemann@ky.gov	
Jacob Huber	KYTC – CO	Jacob.Huber@ky.gov	
Steve Ross	KYTC – CO	Steve.Ross@ky.gov	
Jay Balaji	KYTC – CO	Jayalakshmi.Balaji@ky.gov	
Thomas Witt	KYTC – CO	Thomas.Witt@ky.gov	
Kevin Sandefur	KYTC - Highways	Kevin.Sandefur@ky.gov	
Randy Turner	KYTC - Highways	Randy.Turner@ky.gov	
Scott Schurman	KYTC – Env.	Scott.Schurman@ky.gov	
Adam Michels	KYTC – Env.	Adam.Michels@ky.gov	
Robert Yeager	KYTC – D6	Robert.Yeager@ky.gov	
Mike Bezold	KYTC – D6	Mike.Bezold@ky.gov	
Dane Blackburn	KYTC – D6	Dane.Blackburn@ky.gov	
Nikki Hill	KYTC – D6	Nikki.Hill@ky.gov	
Donald Imfeld	KYTC – D6	Donald.Imfeld@ky.gov	
Craig Walker	KYTC – D6	Craig.Walker@ky.gov	
Steve Gunnell	KYTC – D9	Steve.Gunnell@ky.gov	✓
Darrin Eldridge	KYTC – D9	Darrin.Eldridge@ky.gov	DKE
Karen Mynhier	KYTC – D9	Karen.Mynhier@ky.gov	KLM
Matt Dillon	KYTC – D9	Matt.Dillon@ky.gov	MWD
Michael Read	KYTC – D9	Michael.Read@ky.gov	MR
Jeff Thelen	NKADD	Jeff.Thelen@nkadd.org	
Amy Kennedy	BTADD	akennedy@btadd.com	
Missy Hardy	BTADD	mhardy@btadd.com	
Vicki Green	FIVCO	vicki@fivco.org	VG
Lindsay Walker	HMB	lwalker@hmbpe.com	LAW
Brad Johnson	HMB	bcjohnson@hmbpe.com	BCJ
Jarrod Johnson	HMB	jjohnson@hmbpe.com	JMJ
Joey Mosley	HMB	jmosley@hmbpe.com	
John Callihan	AECOM	john.callihan@aecom.com	JEC

SIGN-IN SHEET

AA Highway Improvements Study

Local Officials / Stakeholder Meeting No. 1 (February 17, 2020)

Attendees:

Name	Agency	Email
Gayle D Smith	Fivco	Gdsmith6@hotmail.com
Tom Bradley	VER	t.r.bradley@vaughnmelton.com
Willis Johnson	Grayson Ky (for George Steele)	gsteele@Grayson
Chris Perry	Carter Caves SRP	Chriso.perry@ky.gov
Garth Wireman	Greenup County Public Safety	garthwireman@greenup911
Jacob Perkins	FIVCO	jacob@fivco.org
Kelly Wood	FIVCO	kelly@fivco.org
Diane Sattles	City of Grayson	dsattles@graysonky.net
Taylor Duncan	City of Olive Hill	t.duncan@cityofoliveHill.com
Carey Carver	FIVCO ADD	Carey@fivco.org
Sherry McDavid	FIVCO ADD	sherry@fivco.org
Terri Sicking	KYOVA	tsicking@kyoarpc
Eric Patton	FIVCO	eric@Fivco.org
Ronnie Cooley	Carter Co. Schools	ronnie.cooley@carter.kyschools.us
Erica Kiser	Carter Co Schools	erica.kiser@carter.kyschools.u
Mike Malone	" " Judge	
Billy Campbell	Greenup Co Judge	
Buford Hurley #	GREENUP CO. E911	BUFORD.HURLEY@GREENUPE911.co
Jim Skaggs	Elliott Co. EM	jimskaggsem@gmail.com

AGENDA

AA Highway Improvements Study

Local Official / Stakeholder Meeting No. 1

February 18, 2020, 1:00 PM

Buffalo Trace Area Development District

Maysville, Kentucky

I. Presentation of Study
   - A. Study Background
   - B. Study Objective / Goals
   - C. Existing Conditions Overview
   - D. Improvement Concept Categories

II. Focus Group Activities
   - A. Exercise No. 1 – Review of Committed and Identified Projects
   - B. Exercise No. 2 – Identify Existing Major Traffic Generators and Future Planned Development
   - C. Exercise No. 3 – Identify Strong Places / Weak Places

III. Next Steps / Wrap Up
   - A. Questions
   - B. Next Meeting Date

SIGN-IN SHEET

AA Highway Improvements Study

Local Officials / Stakeholder Meeting No. 1 (February 18, 2020)

Attendees:

Name	Agency	Email	In Attendance?
Stephen DeWitte	KYTC – CO	Stephen.DeWitte@ky.gov	SGD
Beth Niemann	KYTC – CO	Elizabeth.Niemann@ky.gov	
Jacob Huber	KYTC – CO	Jacob.Huber@ky.gov	
Steve Ross	KYTC – CO	Steve.Ross@ky.gov	
Jay Balaji	KYTC – CO	Jayalakshmi.Balaji@ky.gov	
Thomas Witt	KYTC – CO	Thomas.Witt@ky.gov	
Kevin Sandefur	KYTC - Highways	Kevin.Sandefur@ky.gov	
Randy Turner	KYTC - Highways	Randy.Turner@ky.gov	
Scott Schurman	KYTC – Env.	Scott.Schurman@ky.gov	
Adam Michels	KYTC – Env.	Adam.Michels@ky.gov	
Robert Yeager	KYTC – D6	Robert.Yeager@ky.gov	
Mike Bezold	KYTC – D6	Mike.Bezold@ky.gov	
Dane Blackburn	KYTC – D6	Dane.Blackburn@ky.gov	EDB
Nikki Hill	KYTC – D6	Nikki.Hill@ky.gov	
Donald Imfeld	KYTC – D6	Donald.Imfeld@ky.gov	
Craig Walker	KYTC – D6	Craig.Walker@ky.gov	
Steve Gunnell	KYTC – D9	Steve.Gunnell@ky.gov	✓
Darrin Eldridge	KYTC – D9	Darrin.Eldridge@ky.gov	D.T.E.
Karen Mynhier	KYTC – D9	Karen.Mynhier@ky.gov	KLM
Matt Dillon	KYTC – D9	Matt.Dillon@ky.gov	
Michael Read	KYTC – D9	Michael.Read@ky.gov	M R
Jeff Thelen	NKADD	Jeff.Thelen@nkadd.org	
Amy Kennedy	BTADD	akennedy@btadd.com	
Missy Hardy	BTADD	mhardy@btadd.com	
Vicki Green	FIVCO	vicki@fivco.org	
Lindsay Walker	HMB	lwalker@hmbpe.com	LAW
Brad Johnson	HMB	bcjohnson@hmbpe.com	✓
Jarrod Johnson	HMB	jjohnson@hmbpe.com	
Joey Mosley	HMB	jmosley@hmbpe.com	
John Callihan	AECOM	john.callihan@aecom.com	

SIGN-IN SHEET

AA Highway Improvements Study

Local Officials / Stakeholder Meeting No. 1 (February 18, 2020)

Attendees:

Name	Agency	Email
Earl Bush	Bracken Co Ind Auth	mbush589@windstream.net
Stephanie Hopper	Hospice of Hope	shopper@hohope.org
Todd Ruckel	Lewis Co Judge Exec	todd.ruckel@lewiscountyky.gov
Joe Pfeffer	Mason Co Judge Exec	masoncojudge@masoncountykentucky.us
Scotty Sipped	Bracken Magistrate	ScottyL@windstream.net
Clay Buses	Maysville/Mason Co EM	MCEM@Maysvilleky.net
Matt Wallingford	City of Maysville	mattwallingford@maysvilleky.net
Owen McNeill	Mays-MasCo Ind Dev Auth	owenmcneill@maysvilleky.net
Charles T Cottevill	City of Maysville	ctcottevill@gmail.com
Craig Miller	Bracken Co Fiscal Court	Craigmiller07@windstream
Jeff Aulick	Bracken Co Schools	jeff.aulick@bracken.kyshs
MIKE MOORE	PENDLETON CO EMA	pcema@lueoue.net
David Fietels	Pendleton Co/Judge/Exec	pendletoncountyjudgeexec@gmail..
Bill Shugars	Shugars Supply, BTADD	Shugars@maysvilleky.net
Amy Kennedy	BTADD	akennedy@btadd.com
Bill Boggs	BTADD Maysville Ky	boggsw@maysvilleky.net
Tina K Teegarden	Bracken Co Judge	brackenjudge@windstream.net

SIGN-IN SHEET

AA Highway Improvements Study

Local Officials / Stakeholder Meeting No. 1 (February 18, 2020)

Attendees:

Name	Agency	Email
Courtney Kleier	NKY Chamber	cneltner@nkychamber.com
Joe Buerkley	Pendleton Co. Schools	joe.buerkley@pendleton.kyschools.
Bill Mitchell	NHADD	Bill.Mitchell@NHADD.org
Joe McKay	Mason County Fiscal Court	Joe.McKay@mason.kyschools
Craig A Stanfield	BTADD	info@stanfieldproperty.com

AA Highway Improvements Study



Bracken, Carter, Greenup, Lewis,
Mason, Pendleton Counties

Local Official / Stakeholder Meeting No. 1
February 18, 2020, 1:00 PM EDT

KENTUCKY TRANSPORTATION CABINET

AECOM

Meeting Structure

1. Welcome / Introductions
2. Presentation of Study
3. Break out into Focus Groups for Discussion

Study Background


Miles
0
5
10
20
N
Ohio
AA Highway
CAMPBELL
PENDLETON
BRACKEN
MASON
LEWIS
GREENUP
ROBERTSON
HARRISON
FLEMING
BOYD
CARTER
NICHOLAS
SCOTT
BOURBON
BATH
ROWAN
ELLIOTT
LAWRENCE
FAYETTE
MONTGOMERY
9
10
23
27
62
68
64
60
Study Area
US Highways
Interstate
Study Area County Line
AA Highway Improvements Study

Study Background

Study Objective

- Identify and evaluate potential improvement concepts to improve overall safety and operational performance of the AA Highway including KY 9 from the Campbell / Pendleton County line to Grayson (KY 1) and KY 10 from Vanceburg to US 23 in Greenup County (total of approximately 120 miles).

Study Background

Study Goals

- Identify Project Locations
- Develop / Evaluate Improvement Concepts
- Prepare Prioritized List of Improvement Concepts

Study Background

Study Tasks

- Compile Existing Conditions Information
- Prepare Traffic Forecasts (Year 2045)
- Perform Environmental Overview
- Develop Improvement Concepts
- Refine Improvement Concepts
- Prioritize Recommended Improvements

Schedule

August 2019	Study Initialized
Sept. – Dec. 2019	Scoping / Data Gathering / Existing Conditions Analysis
January 2020	Project Team Meeting No. 1 / Traffic Forecasting
February 2020	LO/S Meeting No. 1 / Develop Improvement Concepts
March 2020	Project Team Meeting No. 2 / Evaluate Improvement Concepts
April 2020	LO/S Meeting No. 2 / Refine Improvement Concepts
May 2020	Develop Recommendations
June 2020	Project Team Meeting No. 3
July 2020	Prepare Draft Report
August 2020	Address Comments / Finalize Report

Existing Conditions

Existing Conditions

Typical Sections



62% Two-Lane

(73.3 miles)

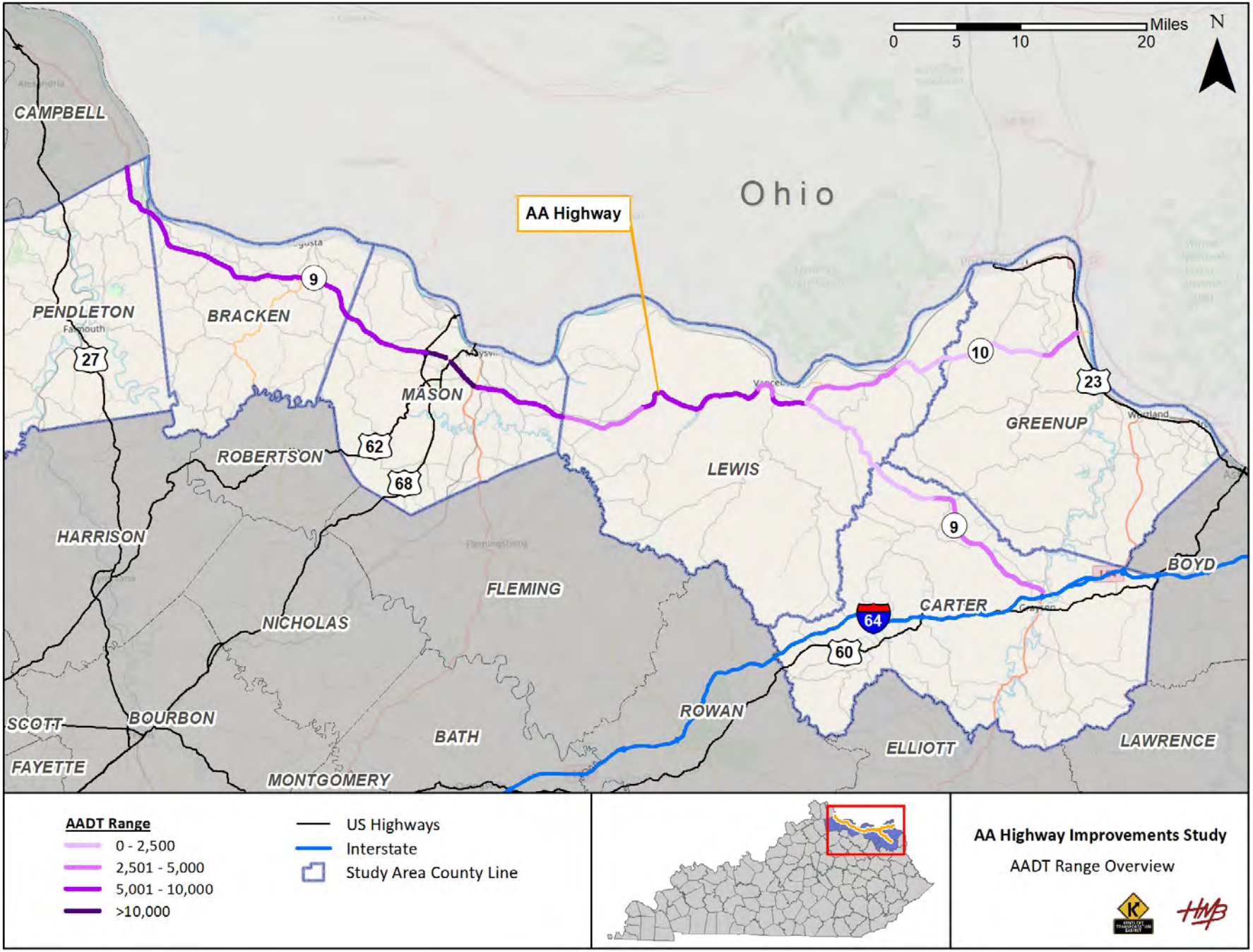


26% Two-Lane with Truck Climbing Lane



12% Four-Lane

(14.3 miles)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NICHOLAS
FLEMING
LEWIS
GREENUP
BOYD
CARTER
Grayson
SCOTT
BOURBON
FAYETTE
MONTGOMERY
BATH
ROWAN
ELLIOTT
LAWRENCE
Flemingsburg
Vanceburg
Wurtland
9
27
62
68
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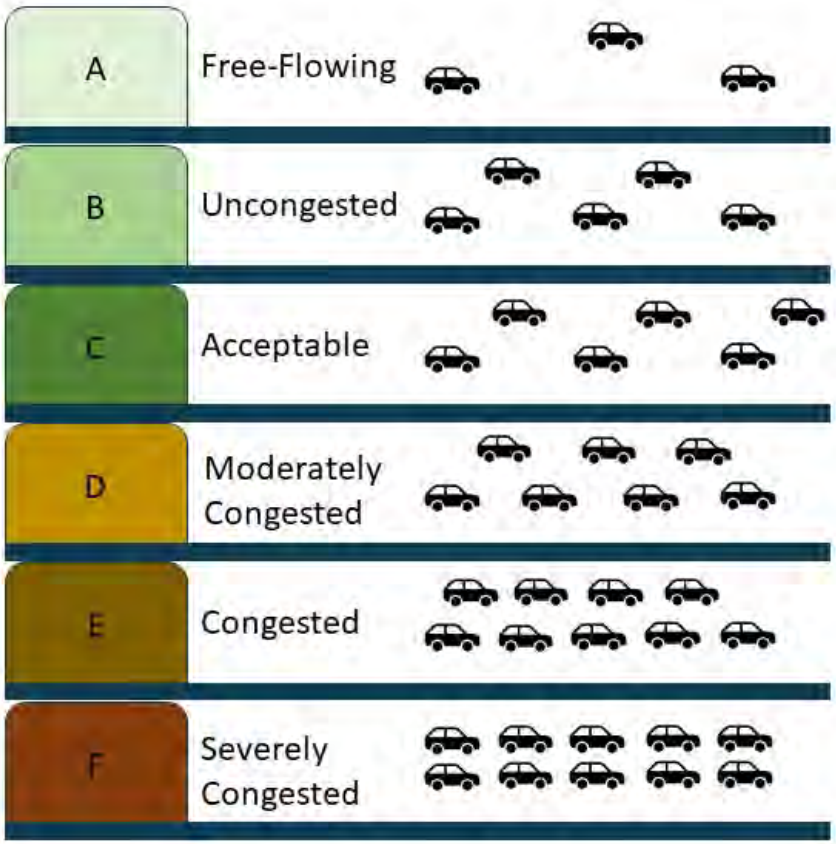
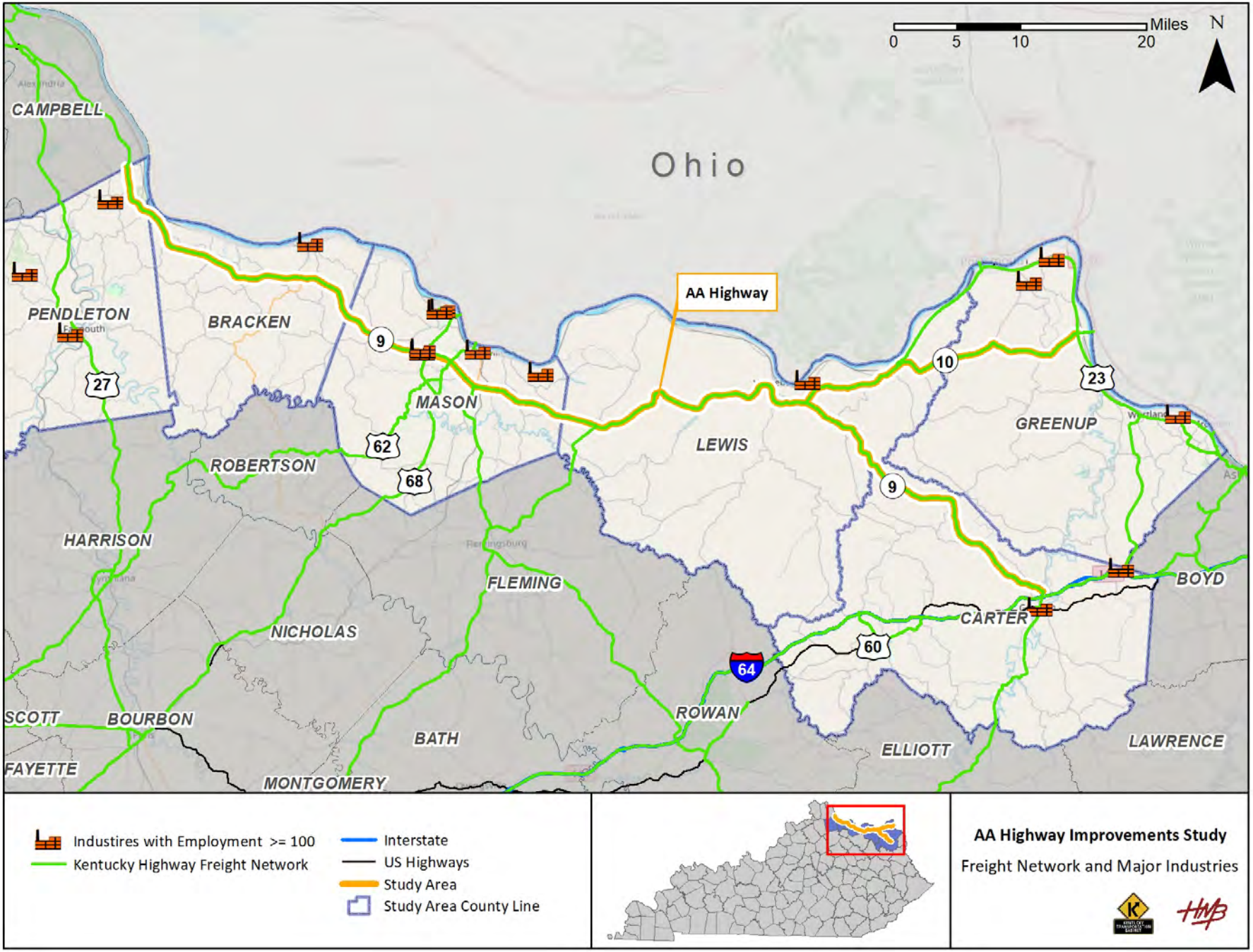
64
60
AADT Range
0 - 2,500
2,501 - 5,000
5,001 - 10,000
>10,000
US Highways
Interstate
Study Area County Line
AA Highway Improvements Study
AADT Range Overview

Traffic Operations

Level of Service (LOS) Chart



2020 LOS for All Segments = A/B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ROWAN
ELLIOTT
LAWRENCE
FAYETTE
MONTGOMERY
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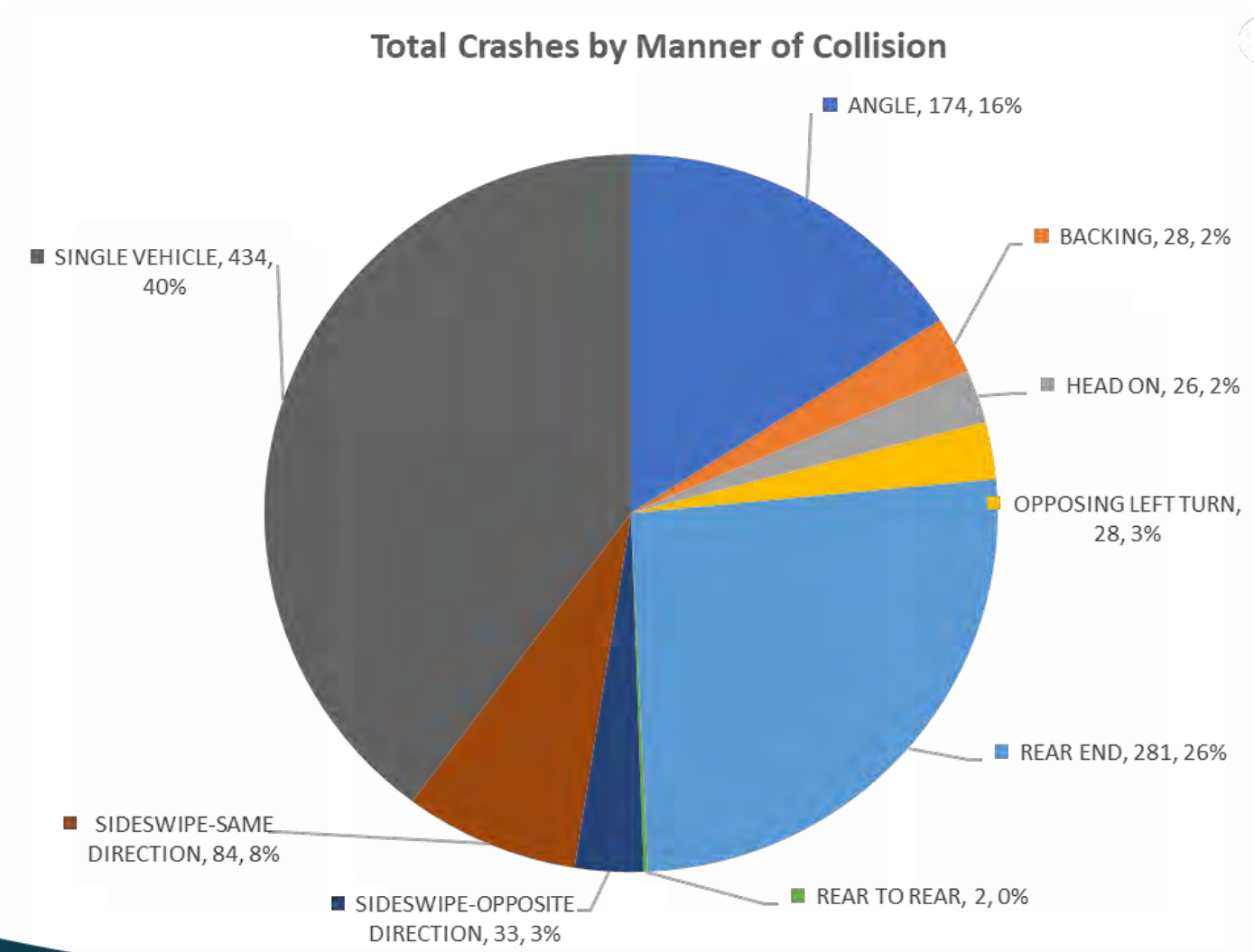
Industires with Employment >= 100
Kentucky Highway Freight Network
Interstate
US Highways
Study Area
Study Area County Line
AA Highway Improvements Study
Freight Network and Major Industries

Crash Analysis

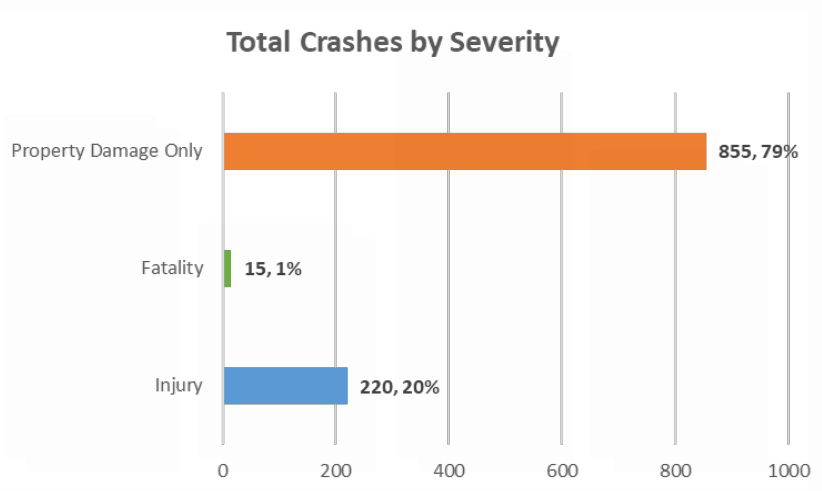
AA HIGHWAY *Improvements Study*

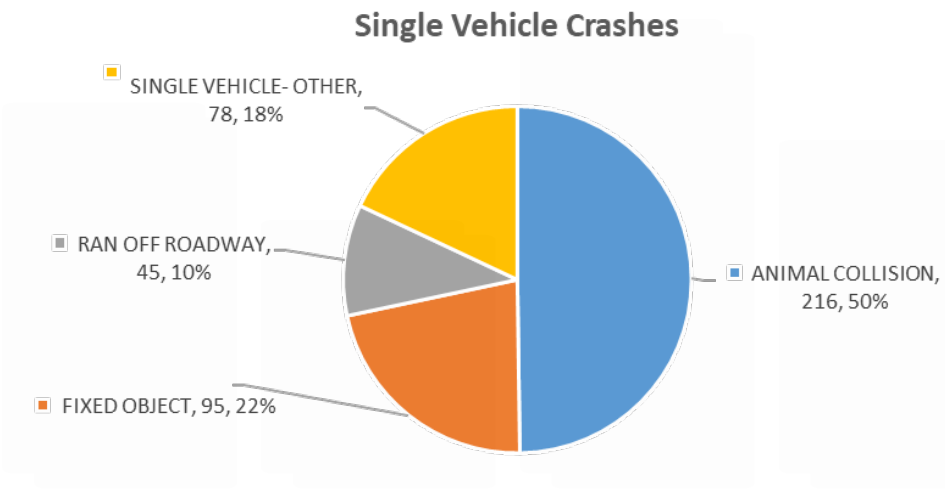
2014-2019



Crash Analysis

2014-2019







AA Highway Improvements Study
Crash Analysis (Nov 2014 - Oct 2019)

Crash Density (All Crashes)

Less Crashes — More Crashes

Interstate
US Highways
Study Area County Line



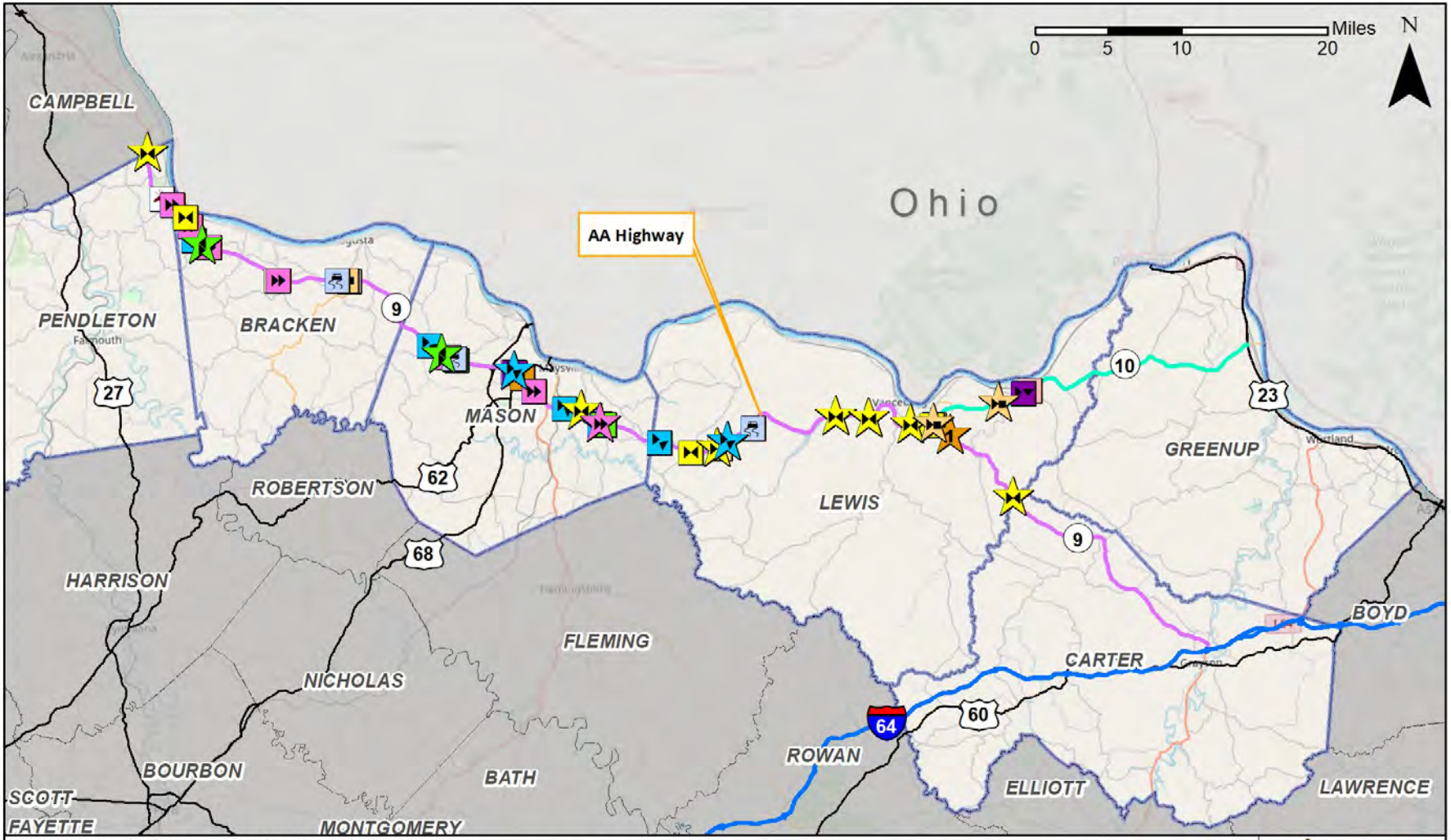


AA Highway Improvements Study
Crash Analysis (Nov 2014 - Oct 2019)

High CRF Spots (0.3 Mile Segments)

- Interstate
- US Highways
- Study Area
- Study Area County Line
- High CRF Spots (0.3 Mile Segments)

Note: A high CRF is identified as a value 1.00 or greater and indicates crashes likely do not occur randomly at that location.



AA Highway Improvements Study
Crash Analysis (Nov 2014 - Oct 2019)

Crashes by Manner and Severity (Fatal and Severe Injury)

- KY 9
- KY 10
- Interstate
- US Highways
- Study Area County Line

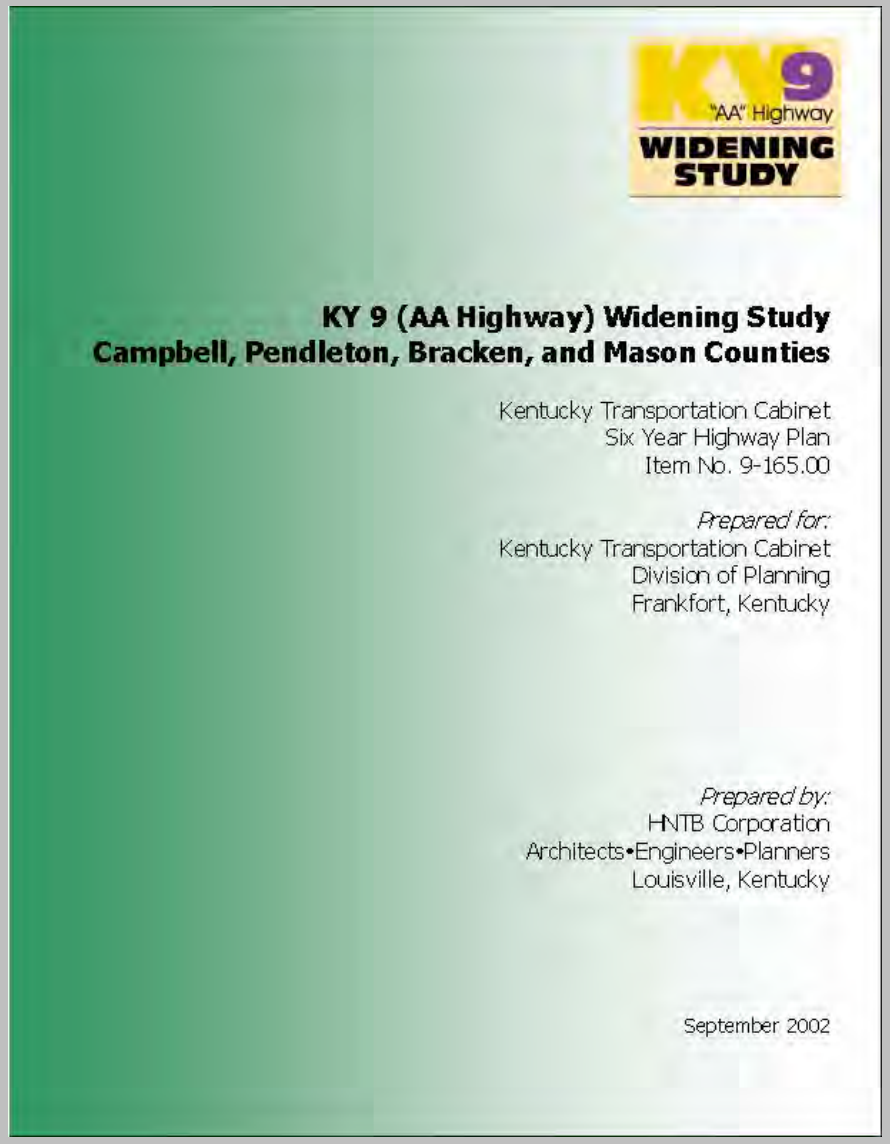
Manner of Collision (Color)

- Angle
- Animal
- Backing
- Cross-Over
- Fixed Object
- Head On
- Opposing Left Turn
- Ran Off Roadway
- Rear End
- Rear to Rear
- Sideswipe - Opposite Direction
- Sideswipe - Same Direction
- Single Vehicle - Other

KABCO Collision Severity (Shape)

- K: Fatal
- A: Severe / Incapacitating (severe lacerations, broken limbs, skull fracture, internal injuries, unconsciousness, inability to leave scene without assistance)

Previous Study



Previous Study

KY 9 (AA Highway) Widening Study)

- Prepared in 2002 for KYTC for Campbell, Pendleton, Bracken, and Mason Counties
- Four Alternates Developed:
  - Do Nothing
  - Safety / Operational Improvements
  - Widening to 4-Lane, Limited Access
  - Widening to 4-Lane, Fully Controlled Access

Previous Study

Traffic Volumes and LOS by Segment						
KY 9 Segments	Previous Study				Current Study	
	2000 AADT* (vpd)	2000 LOS*	2025 AADT* (vpd)	2025 LOS*	2020 AADT (vpd)	2020 LOS
Segment A: West Ivor Road to Campbell/Pendleton County Line (0.500 - 0.000)	8,420	E	18,100	F	Segment not in Curent Study	
Segment B: Campbell Pendleton County Line to Pendleton/Bracken County Line (4.339 - 0.000)	7,630	E	16,400	F	6,500	B
Segment C: Pendleton/Bracken County Line to KY 1109 (19.857 - 13.585)	8,800	E	18,900	F	6,200	B
Segment D: KY 1109 to KY 1159 (13.585 - 10.259)	8,010	E	17,200	F	5,800	A
Segment E: KY 1159 to Augusta-Berlin Road (10.259 - 9.449)	7,360	D	15,800	F	4,600	A
Segment F: Augusta-Berlin Road to KY 19 (9.449 - 5.546)	8,490	E	18,200	F		
Segment G: KY 19 to Bracken/Mason County Line (5.546 - 0.000)	5,720	D	12,300	E	6,100	B
Segment H: Bracken/Mason County Line to Walton Pike (19.541 - 19.293)	5,720	D	12,300	E	6,100	B
Segment I: Walton Pike to KY 435 (19.293 - 17.049)	5,870	D	12,600	E	5,300	A
Segment J: KY 435 to KY 10 (17.049 - 16.179)	6,700	D	14,400	F	5,700	A

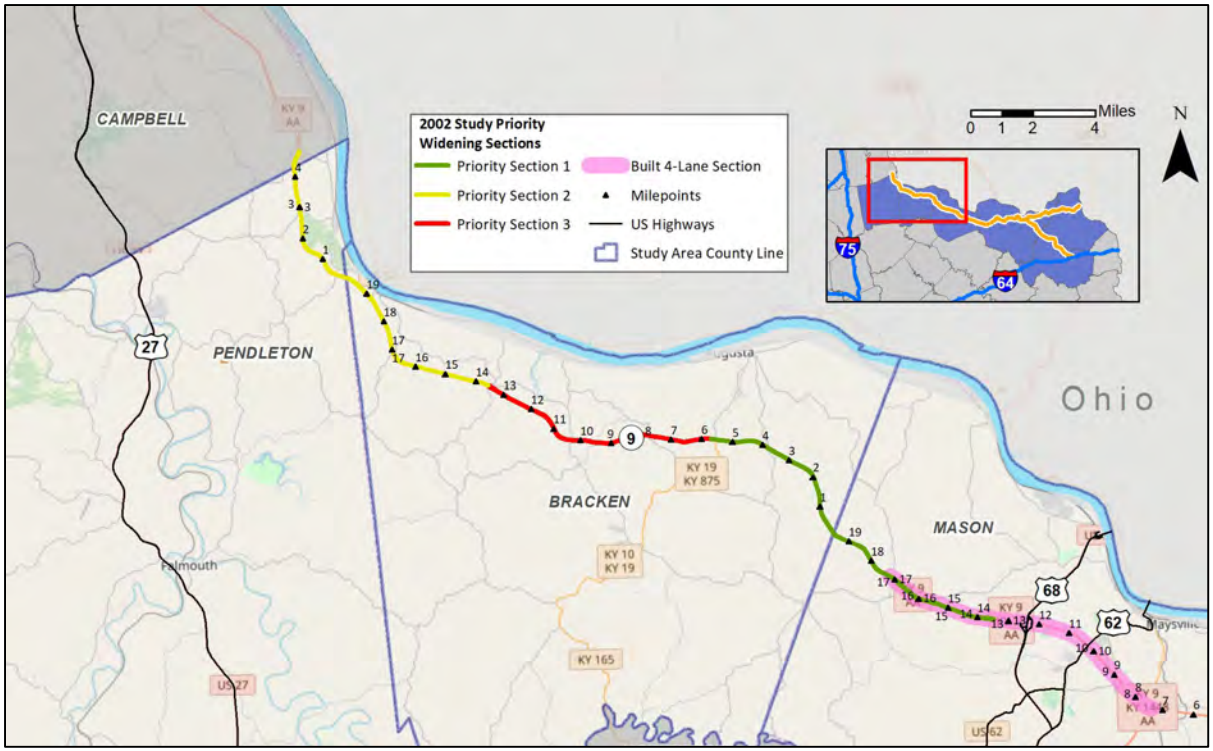
*Values from previous KY 9 Widening Study

Previous Study

AA HIGHWAY Improvements Study

Preferred Alternate:

- Widening to 4-Lane, Limited Access
- Divided into 3 Priority Sections



Previous Study

Safety / Operational Improvements

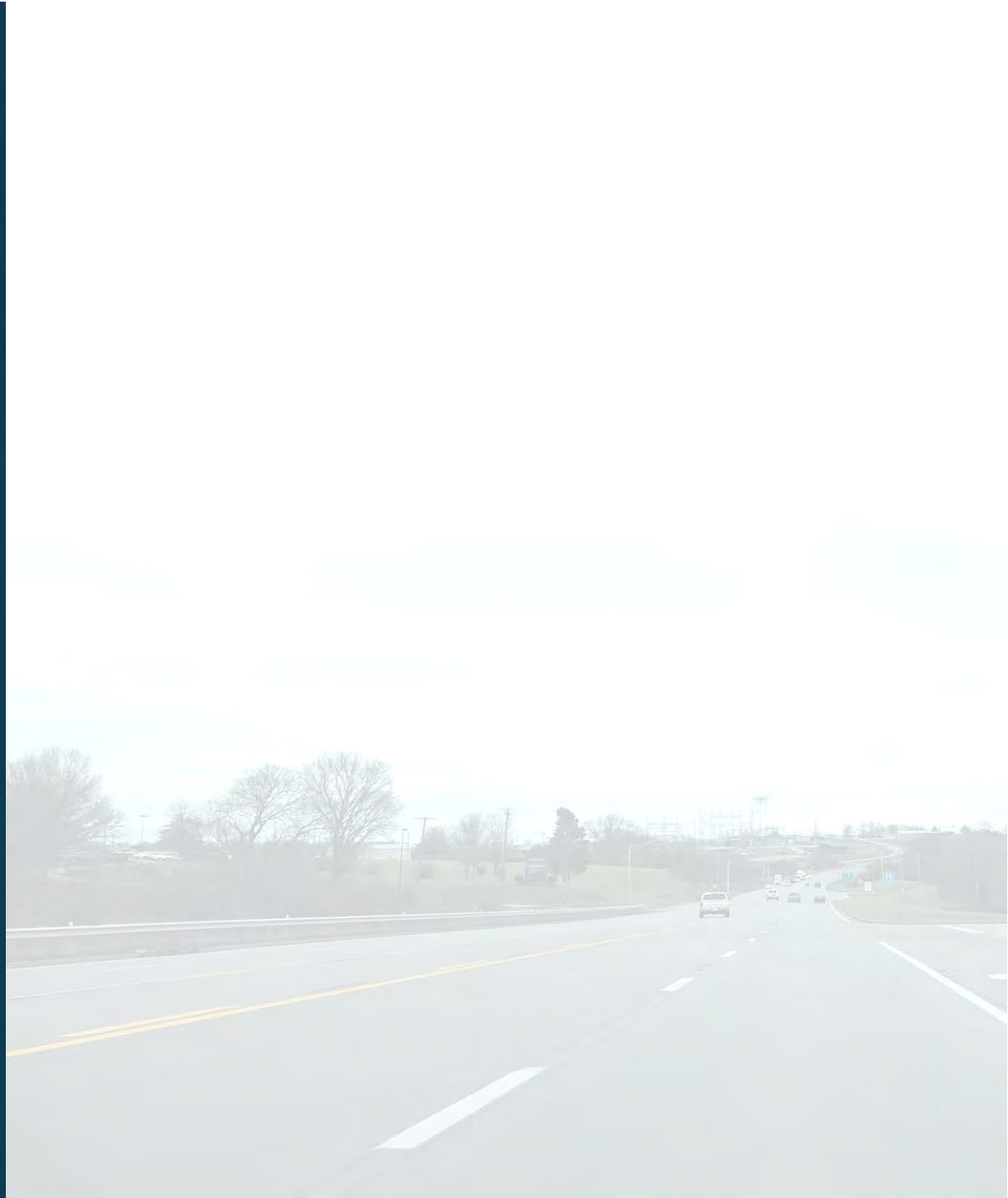
Improvement	Deficiency to Address	Current Status
Rumple Strips	Inattentive driver, roadway departure, driver fatigue	Implemented
Field Entrances	30 noted; need access control	Access control addressed in reconstruction west of US 68
Driveways	Missing turn lanes, small turning radii, guardrail too close	Partially implemented
Guardrail Placement	Guardrail close to edge of pavement	Guardrail replaced west of US 68; Spot guardrail replacement projects in Highway Plan
Truck Climbing Lanes	Installations / modifications	Partially implemented
Signage Compliance	Inconsistent; evaluate compliance	Implemented but still some inconsistencies
Turn Flares	Improve turning radii	Partially implemented; Addressed in reconstruction west of US 68

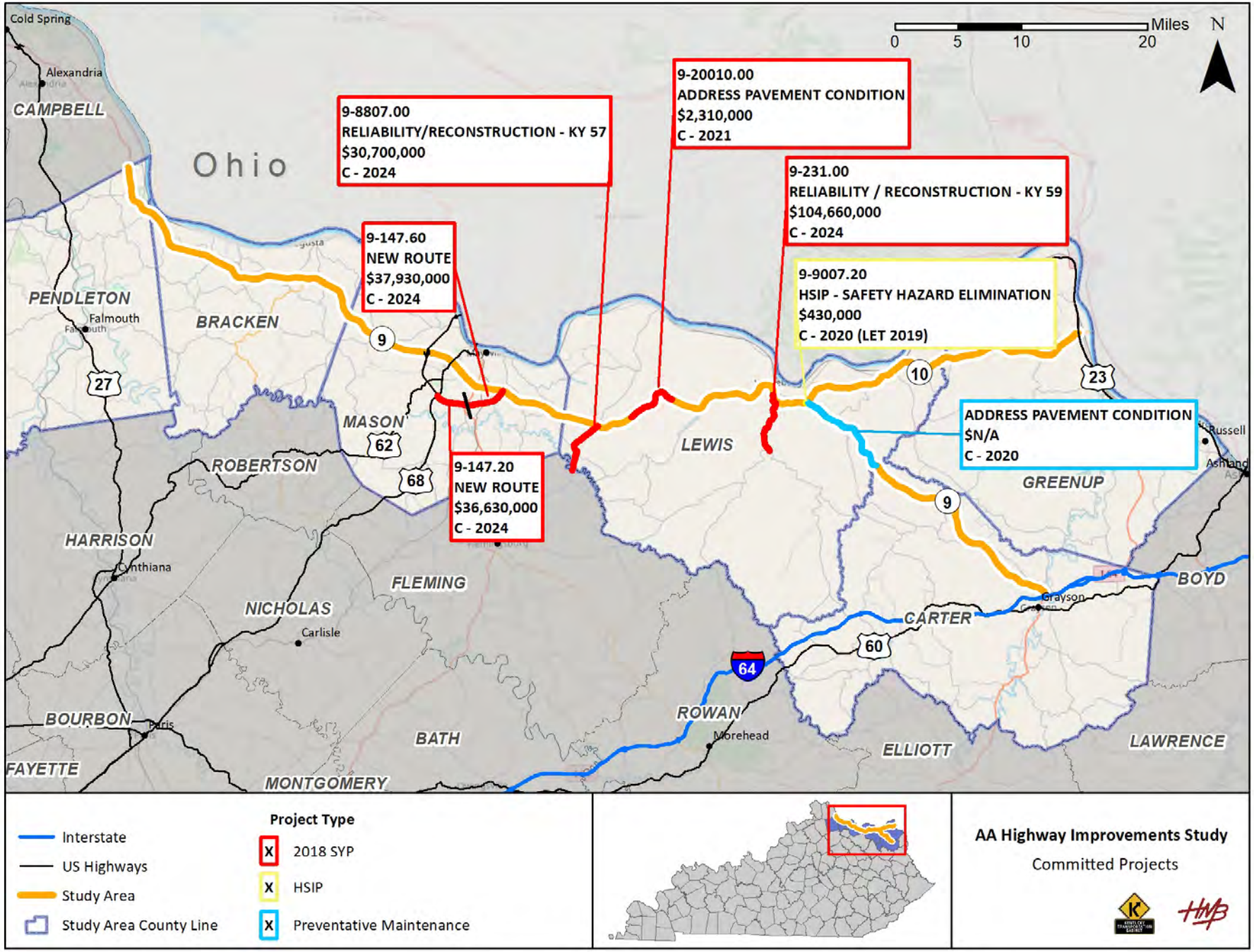
Previous Study

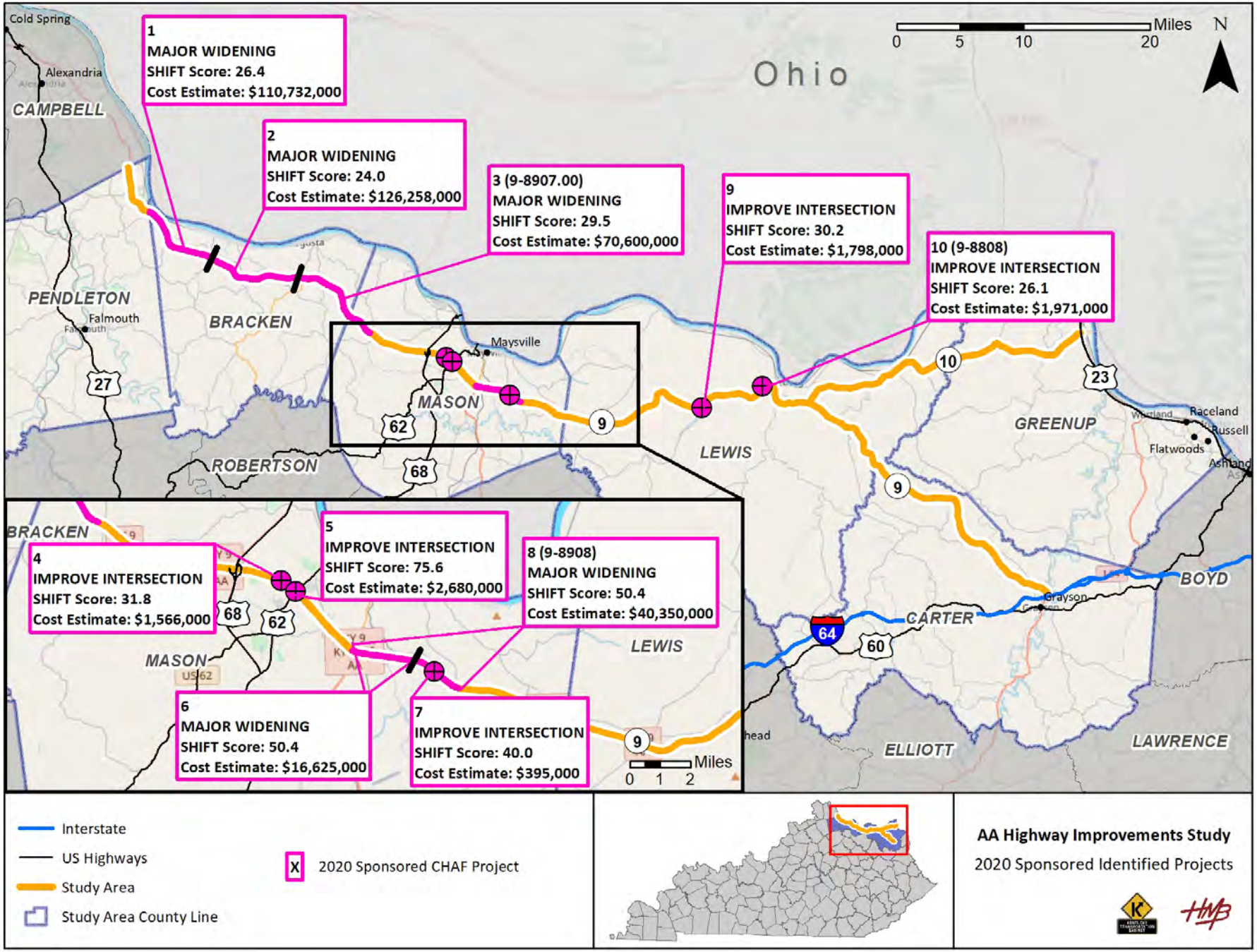
Safety / Operational Improvements

Improvement	Deficiency to Address	Current Status
T-Intersection Signage	Add double arrow black and yellow signs	Partially implemented
Fog	Public education campaign, visibility sensors, traffic enforcement, automated lane indication, rest areas	Partially implemented; Signage and Advanced Warning Systems for signals installed
Lighting	Crashes in dark	Most major intersections have lighting installed
Weigh Stations	Truck traffic	Not currently implemented
Deer Reflectors	Collisions with animals	Not implemented; Subsequent research found them not to be effective
Skip Reflectors	Intersection delineation	Not currently implemented, dotted extension lines used in some cases

Committed and Identified Projects




Cold Spring
Alexandria
CAMPBELL
Ohio
PENDLETON
Falmouth
BRACKEN
MASON
ROBERTSON
HARRISON
Cynthiana
NICHOLAS
Carlisle
FLEMING
BOURBON
Paris
FAYETTE
MONTGOMERY
BATH
LEWIS
ROWAN
Morehead
ELLIOTT
LAWRENCE
CARTER
Grayson
BOYD
GREENUP
Russell
Ashland
Miles
0 5 10 20
N
9-8807.00
RELIABILITY/RECONSTRUCTION - KY 57
$30,700,000
C - 2024
9-20010.00
ADDRESS PAVEMENT CONDITION
$2,310,000
C - 2021
9-231.00
RELIABILITY / RECONSTRUCTION - KY 59
$104,660,000
C - 2024
9-147.60
NEW ROUTE
$37,930,000
C - 2024
9-9007.20
HSIP - SAFETY HAZARD ELIMINATION
$430,000
C - 2020 (LET 2019)
ADDRESS PAVEMENT CONDITION
$N/A
C - 2020
9-147.20
NEW ROUTE
$36,630,000
C - 2024
Interstate
US Highways
Study Area
Study Area County Line
Project Type
2018 SYP
HSIP
Preventative Maintenance
AA Highway Improvements Study
Committed Projects


1
MAJOR WIDENING
SHIFT Score: 26.4
Cost Estimate: $110,732,000
2
MAJOR WIDENING
SHIFT Score: 24.0
Cost Estimate: $126,258,000
3 (9-8907.00)
MAJOR WIDENING
SHIFT Score: 29.5
Cost Estimate: $70,600,000
9
IMPROVE INTERSECTION
SHIFT Score: 30.2
Cost Estimate: $1,798,000
10 (9-8808)
IMPROVE INTERSECTION
SHIFT Score: 26.1
Cost Estimate: $1,971,000
4
IMPROVE INTERSECTION
SHIFT Score: 31.8
Cost Estimate: $1,566,000
5
IMPROVE INTERSECTION
SHIFT Score: 75.6
Cost Estimate: $2,680,000
8 (9-8908)
MAJOR WIDENING
SHIFT Score: 50.4
Cost Estimate: $40,350,000
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MAJOR WIDENING
SHIFT Score: 50.4
Cost Estimate: $16,625,000
7
IMPROVE INTERSECTION
SHIFT Score: 40.0
Cost Estimate: $395,000
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Cold Spring
Alexandria
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PENDLETON
Falmouth
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ROBERTSON
Maysville
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Raceland
Russell
Flatwoods
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BOYD
Grayson
CARTER
ELLIOTT
LAWRENCE
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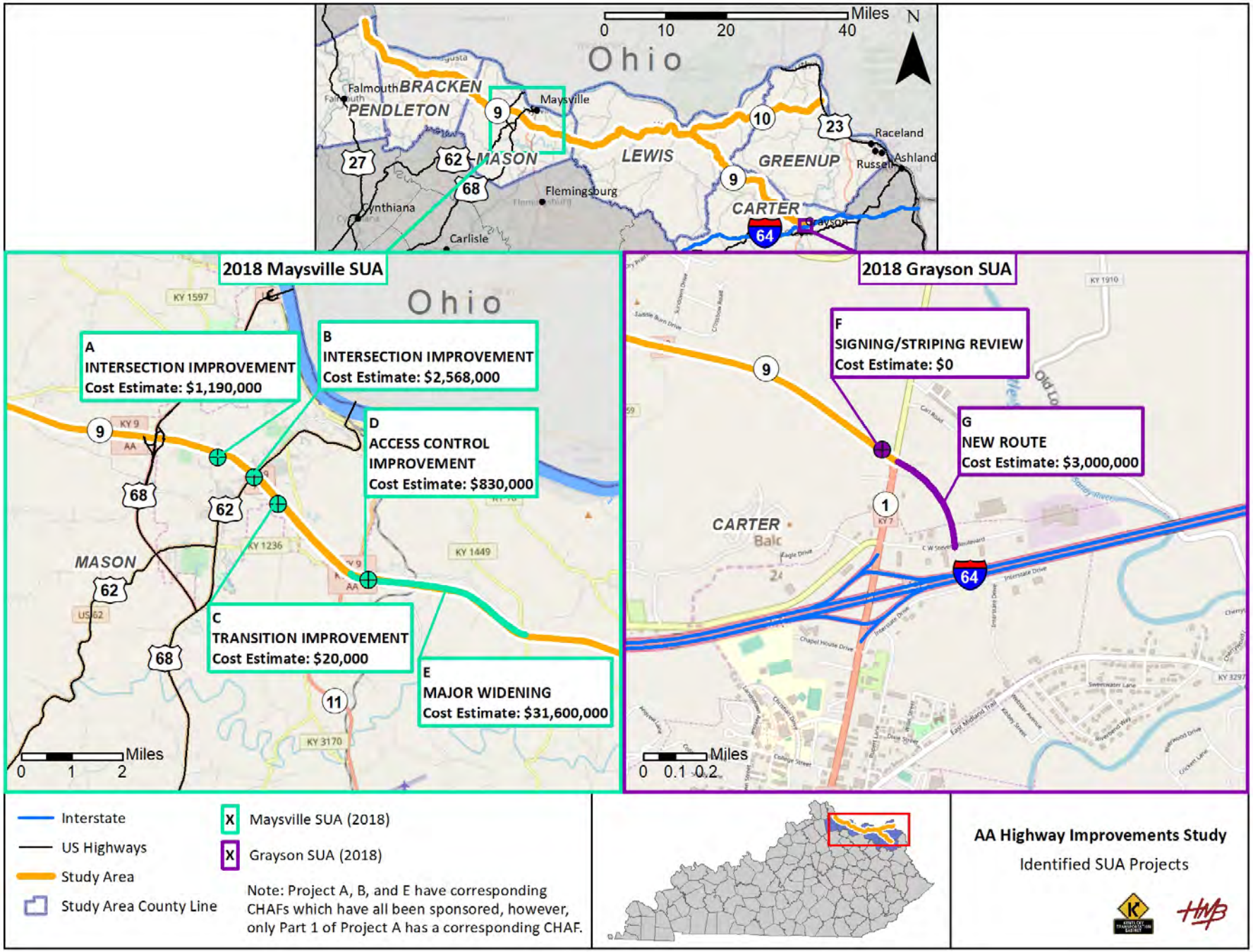
Interstate
US Highways
Study Area
Study Area County Line
X
2020 Sponsored CHAF Project
AA Highway Improvements Study
2020 Sponsored Identified Projects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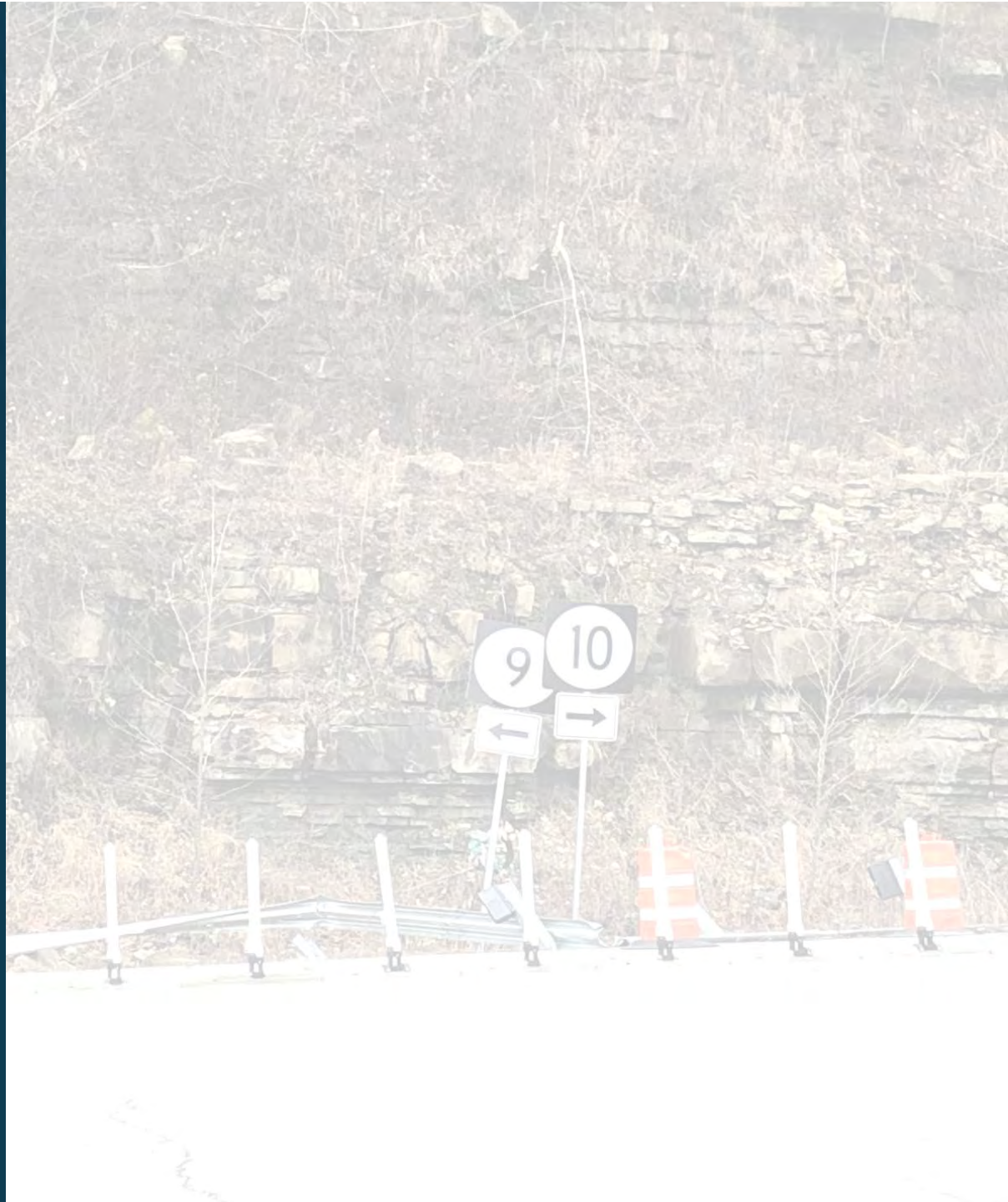
23
Raceland
Ashland
Russell
27
62
MASON
LEWIS
GREENUP
68
Flemingsburg
Cynthiana
CARTER
64
Grayson
Carlisle
2018 Maysville SUA
Ohio
A
INTERSECTION IMPROVEMENT
Cost Estimate: $1,190,000
B
INTERSECTION IMPROVEMENT
Cost Estimate: $2,568,000
D
ACCESS CONTROL
IMPROVEMENT
Cost Estimate: $830,000
C
TRANSITION IMPROVEMENT
Cost Estimate: $20,000
E
MAJOR WIDENING
Cost Estimate: $31,600,000
KY 1597
KY 9
KY 1236
KY 1449
US 62
KY 3170
11
Miles
0 1 2
2018 Grayson SUA
F
SIGNING/STRIPING REVIEW
Cost Estimate: $0
G
NEW ROUTE
Cost Estimate: $3,000,000
KY 1910
CARTER
Balc
1
KY 7
KY 3297
Miles
0 0.1 0.2
Interstate
US Highways
Study Area
Study Area County Line
X Maysville SUA (2018)
X Grayson SUA (2018)
Note: Project A, B, and E have corresponding CHAFs which have all been sponsored, however, only Part 1 of Project A has a corresponding CHAF.
AA Highway Improvements Study
Identified SUA Projects

Improvement Concept Categories



Improvement Concept Categories

- Congestion
  - Signal Timing
  - Turn Lanes
- Safety
  - Sight Distance
  - Passing Lane Transitions
  - Speed
  - Lighting
- Access
  - Cross streets
  - Delineation
  - Intersection Reconfigurations
- Management
  - Signage
  - Parking Areas
  - Truck Traffic

High value/low impact/low cost concepts that offer significant corridor safety and congestion improvement

Focus Group Activities

Focus Group Activities

Questions to Consider:

- Exercise No. 1 – Committed and Identified Projects
  - Please review committed and identified project locations and provide your input
- Exercise No. 2 – Traffic Generators
  - Please provide input on locations of existing major traffic generators or large areas of planned new development
- Exercise No. 3 – Strong Places; Weak Places
  - Strong Places - Please identify places you feel operate well or features you like
  - Weak Places – Please identify places you feel have safety or operational concerns

Next Steps

1. Analyze Data
2. Develop Conceptual Improvements Range
3. Schedule Local Officials / Stakeholder Meeting No. 2 (April 2020)

Contacts

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Michael Read
KYTC District 9 Project Managers
Matt.Dillon@ky.gov
Michael.Read@ky.gov

KENTUCKY TRANSPORTATION CABINET

AECOM

FINAL Meeting Minutes

Project: **AA Highway Improvements Study**

Subject: **Project Team Meeting No. 2**

Date: **Wednesday, March 18, 2020, 10:00 AM (Eastern Time)**

Location: **Multiple Locations via Video Conference Call**

Note: Due to the COVID-19 pandemic suppression guidelines to hold no gatherings of 10 or more people, the Project Team Meeting No. 2 was conducted via Skype videoconferencing with attendees joining online from multiple locations.

Attendees:

Beth Niemann	KYTC Central Office, Planning
Steve Ross	KTYC Central Office, Planning
Jay Balaji	KYTC Central Office, Planning
Kevin Sandefur	KYTC Location Engineer, District 6
Mike Bezold	KYTC District 6, TEBM for Project Development
Dane Blackburn	KYTC District 6, Planning Supervisor
Craig Walker	KYTC District 6, Planning
Darrin Eldridge	KYTC District 9, TEBM for Project Development
Karen Mynhier	KYTC District 9, Environmental
Matt Dillon	KYTC District 9, Planning
Michael Read	KYTC District 9, Planning
Missy Hardy	BTADD
Amy Kennedy	BTADD
Vicki Green	FIVCO
Lindsay Walker	HMB
Jarrod Johnson	HMB
Joey Mosley	HMB
Brad Johnson	HMB

Agenda / Handouts:

To facilitate the meeting, the following materials were provided prior to the meeting and are included as an attachment to these meeting minutes.

- Agenda
- Presentation Slides
- Draft Improvement Concept Sheets

Meeting Comments / Summary:

Lindsay Walker of HMB began the meeting by sharing her screen with all those viewing the video conference call. The discussion was facilitated by a PowerPoint presentation that Lindsay went through. The following are comments / discussion items for each agenda item.

I. Review of Study
- HMB presented a review of the study area, study objective and goals, outstanding and completed tasks, and schedule.
- There was a discussion about project scheduling given the circumstances related to COVID-19. KYTC Central Office (CO) Planning noted that KYTC District 5 (D5) is conducting a webinar for a different project on Thursday March 26, 2020 as a result of the COVID-19 regulations, and that a webinar could be a potential option to conducting the Local Official / Stakeholder (LO/S) Meeting No. 2. There was some logistical concern about the online connectivity of local officials / stakeholders related to this study. KYTC CO Planning will update HMB on a review of the D5 webinar.

II. Local Official / Stakeholder Meeting No. 1 Review
- HMB presented the results of the data gathered from the LO/S Meeting No. 1 including attendance, participation, and online web app results.
- KYTC CO Planning asked what the perceived "bowtie" symbols were representing on the web app results map. HMB explained that these were actually two end-point arrows at the end of segments shown side-by-side due to the zoom extent of the map, and that these included high crash CRF 0.3-mile segments in red, and identified CHAF project segments in pink. HMB will make the symbology clearer in future iterations of online crowdsourcing web applications documentation.
- HMB pointed out that there were no comments related to widening from the LO /S meetings. KYTC D9 surmised that the perception from the local officials and stakeholders may be shifting towards the realization that widening is not the solution needed to address safety along the corridor.

III. Review of Additional Data
- HMB presented a review of the data gathered from existing condition analysis including speed data, geometrics, truck climbing lane locations, signalized intersection locations, and study turning movement count (TMC) locations.

a. Speed Data
- HMB presented the speed data collected for the corridor. KYTC D9 suggested that labels be added to identify which direction each graph is exhibiting. HMB will add labels to the graphs.
- KYTC D9 asked what the date range of the speed data was, and HMB responded that the data was from 2015-2017. This will be added to the graphs.
- KYTC CO Planning asked if the speed data reflected Maysville, since there are so many signals that would interrupt flow through that section of KY 9. HMB responded that the speed data is for the entirety of the study area including the section of KY 9 through Maysville. HMB explained that they were aware of these

locations and will further analyze any of the disruptions in speeds along the corridor.

b. Geometric Review
   - HMB presented the geometric deficiency map which identified locations with a geometric deficiency (i.e. horizontal or vertical curves).
   - KYTC D9 asked for further information regarding the deficiencies shown. HMB explained that plan archives or LiDAR were used to evaluate whether the horizontal and vertical curves met a 55 mile per hour design speed. KYTC D9 requested that HMB send them more information so that they could be aware of these spots. HMB will send KYTC D9 the geometric analysis results.
   - KYTC D9 suggested that horizontal curve warning signs should be evaluated for locations identified as a project and with noted horizontal curve deficiencies. HMB will evaluate warning signage for these locations and review crash data at these locations for contributing factors.

c. Future Year Traffic Forecast
   - HMB presented the 2020 and 2045 traffic forecast overview results and noted that a 0.5% growth rate was agreed upon with KYTC CO Planning and used in the forecast.

d. Signal Timing
   - HMB presented the signalized intersection locations and noted that the signal timing plans were collected from KYTC and would continue to be reviewed.

e. Turning Movement Counts
   - HMB presented the TMC locations and noted the ones that are still pending.
   - KYTC CO Planning asked when the counts were performed, with concern about the COVID-19 causing atypical counts. HMB responded that the counts had been completed before any major governmental COVID-19 suppression guidelines were enacted. HMB will confirm the dates of the COVID-19 regulatory suppression actions and what they were to ensure the counts used are accurately depicting typical traffic patterns.
   - There was a discussion regarding the pending TMC locations including the landfill access intersection of KY 9 at Clarkson Sherman Road, and KY 9 at KY 59 / Fairlane Drive.
     a. KYTC D9 commented that counts had been performed for the landfill intersection (Clarkson Sherman Road) but they did not see the amount of trucks they had anticipated and weren't entirely confident in using the counts for analysis. There was a question on whether the count was done on a peak day for landfill related truck traffic, and KYTC D9 stated that it was done on a Monday, but they had talked to the landfill representatives who said the traffic is typically steady throughout the week. KYTC D9 will continue to be in touch with the landfill to see if they can get more information and determine if another count is warranted.
     b. It was determined that due to the uncertainty of the COVID-19 situation, the intersection of KY 9 and KY 59 / Fairlane Drive will remain pending until further notice. KYTC D9 stated that there may be counts available for the KY 9 at KY 59 / Fairlane Drive intersection from a KY 59 planning study that was

conducted approximately three years ago. KYTC D9 will check to see if there is an existing count at KY 9 / KY 59 and send to HMB.

IV. Improvement Concepts

- HMB presented the concept development process and the preliminary improvement concepts developed for the study.
- HMB requested that each attendee look over the draft concept sheets to offer any additional refinement in order to ensure that they meet the study goals which includes any formatting changes, additional locations, or the removal or modification of any concepts. Upon first review, the project team noted that the only thing needed to add to the concept sheets to meet the goals of the study are cost estimates and schedules which HMB will continue developing with coordination from KYTC. KYTC will continue to review the concept sheets and provide feedback to HMB within two weeks.
- KYTC D9 noted that the purpose of the project sheets is to provide information necessary to put into the CHAF database. Both KYTC D6 and D9 will have their CHAF coordinators review the layout sheets to ensure the appropriate information is included in the sheet.
- KYTC D9 suggested that based on experience, any access control involving the installation of a right-in / right-out should have a form of positive separation such as boards, flexible delineators, tubular markers, quick curb, etc. or otherwise drivers will not comply and it won't be effective. HMB will include positive separation when developing concepts involving any right-in / right-out intersection installations.
- KYTC D9 suggested that there is a new high visibility striping product made by 3M that would be a potentially effective countermeasure for spots that have a relatively high amount of crashes occurring in wet conditions where poor visibility may be the cause. It was noted that there may be more information than typically needed to acquire costs or development details of this countermeasure since it is proprietary to 3M, and HMB should ask KYTC D9 for more information if needed.

V. Local Official / Stakeholder Meeting No. 2 Preparation

- HMB presented an overview of the LO/S Meeting No. 2 planned preparation including the meeting dates and format. The plan for the format includes a presentation and an online input tool to gain input for prioritization of improvement concepts similar to the web interface used for the first LO/S meeting.
- There was a discussion on the meeting schedule regarding the COVID-19 circumstances. KYTC D9 proposed that the meetings be postponed in order to have a higher chance of conducting the meeting with the format as planned instead of through alternative social distancing methods which would be necessary due to the COVID-19 regulations if they were to be extended through the planned meeting dates. The project team had no issue with postponement of the meeting dates, and BTADD stated that there are board meetings in June like the first LO/S meeting in which the meetings could be scheduled. HMB will coordinate with BTADD and FIVCO to set up dates for the LO/S Meeting No. 2 in June 2020.
- There was a discussion about what would be the case if the COVID-19 circumstances extend through the new meeting dates in June. As the situation continues to evolve,

the meeting date / format will be reviewed prior to making any modifications. If in-person meetings continue to be delayed, the project team agreed that as a last resort, alternative methods such as mailed information, online only input, recorded presentations, webinars, etc. would take place rather than an in-person meeting.

VI. Wrap-Up / Next Steps

- HMB ended the meeting by reviewing the next steps in the study process including concept improvement refinement, cost estimate development, and prioritization input development for the LO/S meeting No. 2.

The meeting concluded at approximately 12:00 PM (Eastern Time).

List of Follow-Up / Action Items by Responsible Party:

A list of follow-up / action items from Project Team Meeting No. 2 include:

- KYTC CO Planning will update HMB on a review of the D5 webinar.
- HMB will send KYTC D9 the geometric curve analysis results.
- HMB will confirm the dates of the COVID-19 regulatory suppression actions and what they were to ensure the counts used are accurately depicting typical traffic patterns.
- KYTC D9 will continue to be in touch with the landfill near Clarkson Sherman Road to see if they can get more information about truck traffic.
- KYTC D9 will check to see if there is an existing turning movement count at KY 9 / KY 59 and send to HMB if there is.
- KYTC D6 and D9 will have CHAF coordinators review project sheet layouts.
- HMB will coordinate with BTADD and FIVCO to set up dates for the LO/S Meeting No. 2 in June.

Attachments:

Meeting Agenda

Presentation Slides

Draft Improvement Concept Sheets

Google Earth KMZ of improvement concept locations

Recorded Video Conference Presentation

AGENDA

AA Highway Improvements Study

Project Team Meeting No. 2

March 18, 2020, 10:00 AM

Virtual Meeting

I. Review of Study
   - A. Study Objective / Goals
   - B. Study Schedule
   - C. Study Tasks

II. Local Official / Stakeholder Meeting No. 1 Review
   - A. Meeting Statistics
   - B. Summary of Input

III. Review of Additional Data
   - A. Speed Data
   - B. Geometric Deficiencies
   - C. 2045 Traffic Forecasts

IV. Improvement Concepts
   - A. Development Process
   - B. Project Sheets

V. Local Official / Stakeholder Meeting No. 2 Preparation
   - A. Logistics
   - B. Presentation & Input Tool

VI. Wrap-Up / Next Steps

AA Highway Improvements Study

Bracken, Carter, Greenup, Lewis,
Mason, Pendleton Counties

Project Team Meeting No. 2
March 18, 2020, 10:00 AM EDT

AGENDA

1. Review of Study
2. LO/S Meeting No. 1 Review
3. Additional Data
4. Improvement Concepts
5. LO/S Meeting No. 2 Preparation
6. Wrap-Up / Next Steps


Miles
0
5
10
20
N
Ohio
AA Highway
CAMPBELL
PENDLETON
BRACKEN
MASON
LEWIS
GREENUP
ROBERTSON
HARRISON
FLEMING
NICHOLAS
BOYD
CARTER
SCOTT
BOURBON
BATH
ROWAN
ELLIOTT
LAWRENCE
FAYETTE
MONTGOMERY
9
10
23
27
62
68
64
60
Study Area
US Highways
Interstate
Study Area County Line
AA Highway Improvements Study

Study Background

Study Objective

- Identify and evaluate potential improvement concepts to improve overall safety and operational performance of the AA Highway including KY 9 from the Campbell / Pendleton County line to Grayson (KY 1) and KY 10 from Vanceburg to US 23 in Greenup County (total of approximately 120 miles).

Study Background

AA
HIGHWAY
Improvements Study

Study Goals

- Identify Project Locations
- Develop / Evaluate Improvement Concepts
- Prepare Prioritized List of Improvement Concepts

Schedule

August 2019	Study Initialized
Sept. – Dec. 2019	Scoping / Data Gathering / Existing Conditions Analysis
January 2020	Project Team Meeting No. 1 / Initial Traffic Forecasting
February 2020	LO/S Meeting No. 1 / Develop Improvement Concepts
March 2020	Project Team Meeting No. 2 / Evaluate Improvement Concepts
April 2020	Refine Improvement Concepts
May 2020	LO/S Meeting No. 2 / Develop Recommendations
June 2020	Project Team Meeting No. 3
July 2020	Prepare Draft Report
August 2020	Address Comments / Finalize Report

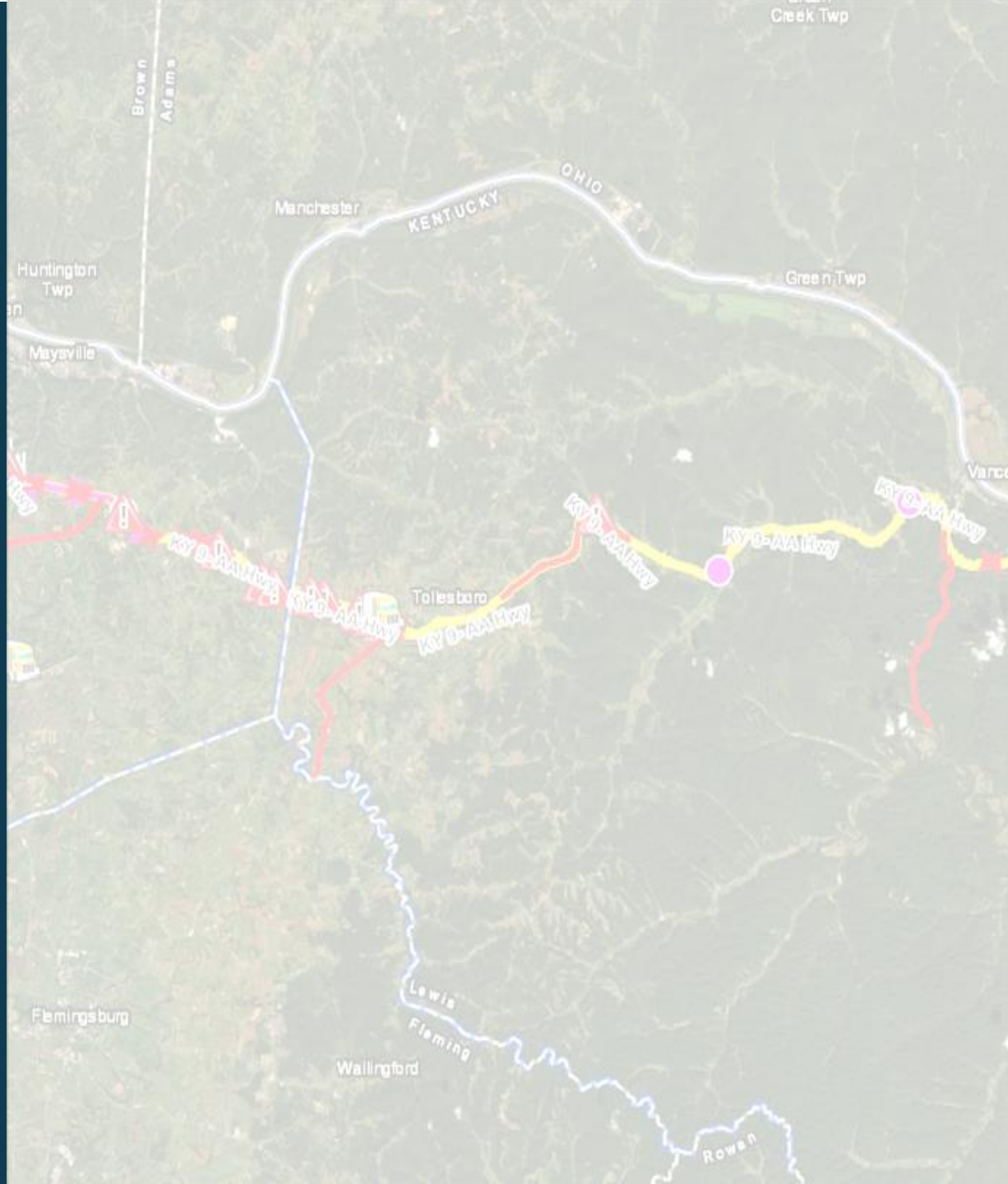
Study Background

AA HIGHWAY *Improvements Study*

Study Tasks

- ✓Compile Existing Conditions Information
- ✓Prepare Traffic Forecasts (Year 2045)
- Perform Environmental Overview
- ✓Develop Improvement Concepts
- Refine Improvement Concepts
- Prioritize Recommended Improvements

Local Officials / Stakeholder Meeting No. 1 Review



LO/S Meeting Statistics

AA HIGHWAY *Improvements Study*

February 17, 2020

FIVCO Area Development District

- 31 Attendees
- 11 Local Officials / Stakeholders
  - City of Olive Hill
  - City of Grayson
  - Carter Co. Schools
  - Greenup County Public Safety & 911
  - Carter Caves State Park
  - Carter County Judge Executive
  - City of Grayson
  - Elliot Co. Emergency Response
- 26 on Invitee List

LO/S Meeting Statistics

AA HIGHWAY *Improvements Study*

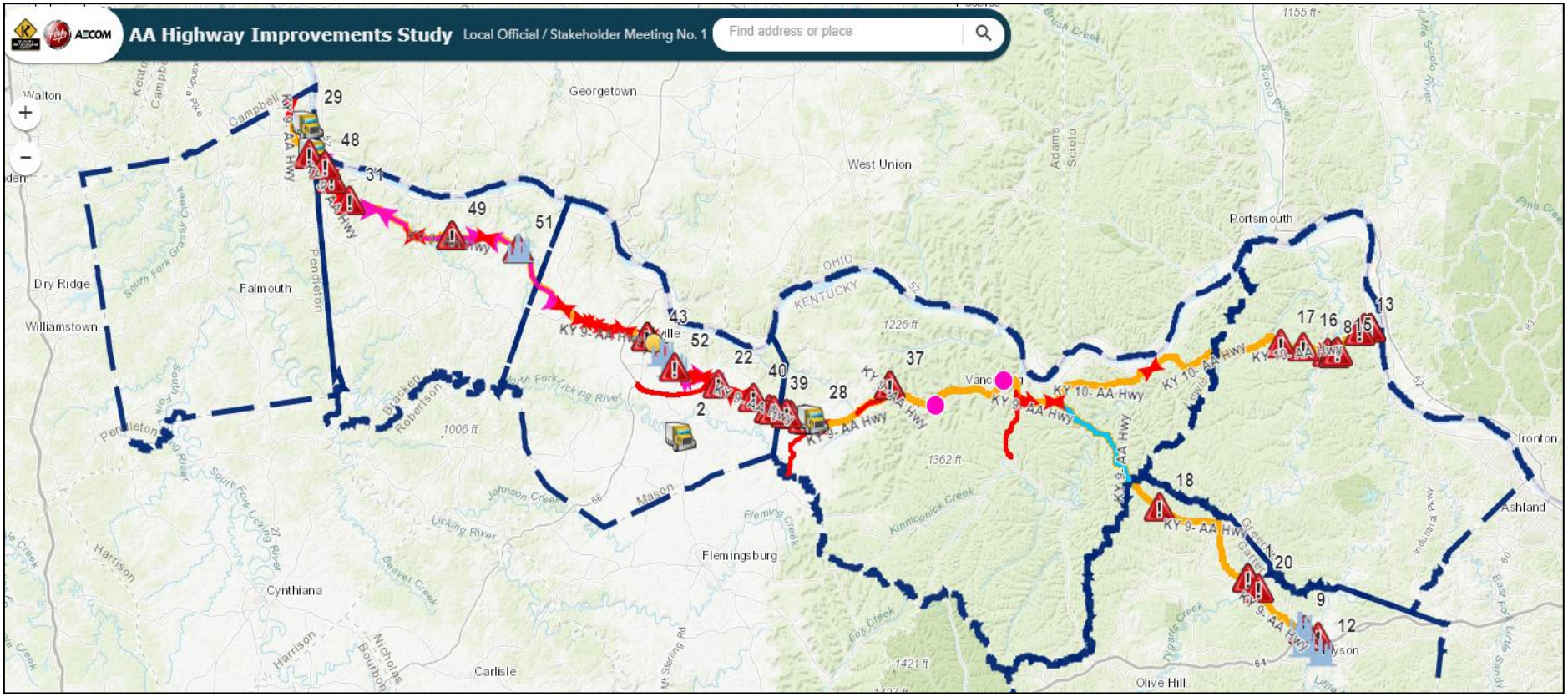
February 18, 2020

BTADD Buffalo Trace Area Development District

- 34 Attendees
- 20 Local Officials / Stakeholders
  - IDA
  - Lewis, Mason, Bracken Officials
  - Mason and Pendleton Co. Emergency Response
  - City of Maysville
  - Bracken and Mason Co. Fiscal Court
  - Bracken and Pendleton Co. Schools
  - NKY Chamber of Commerce
  - Hospice of Hope
- 27 on Invitee List

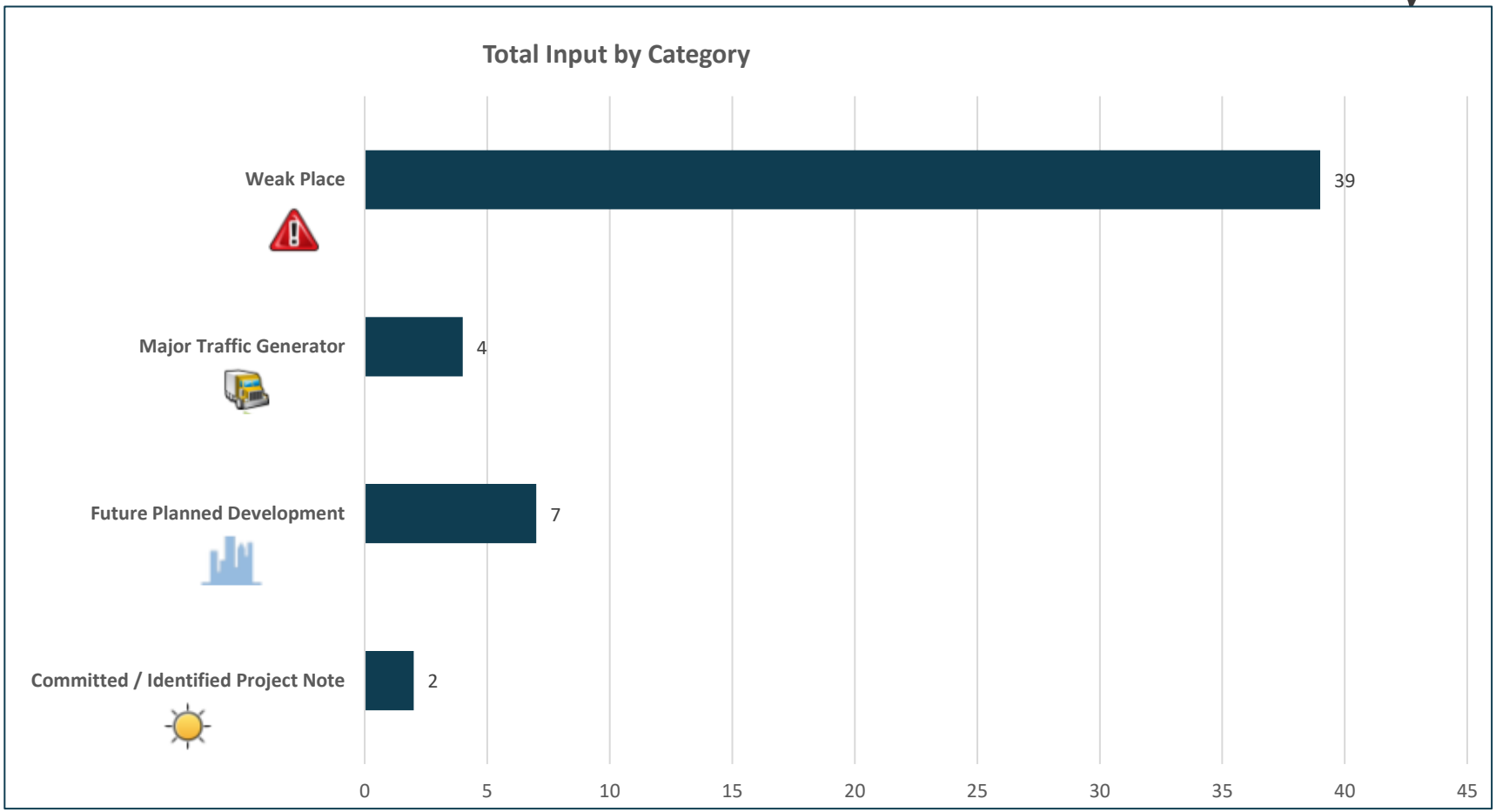
LO/S Meeting Input

AA HIGHWAY *Improvements Study*



LO/S Meeting Input

AA
HIGHWAY
Improvements Study



Additional Data

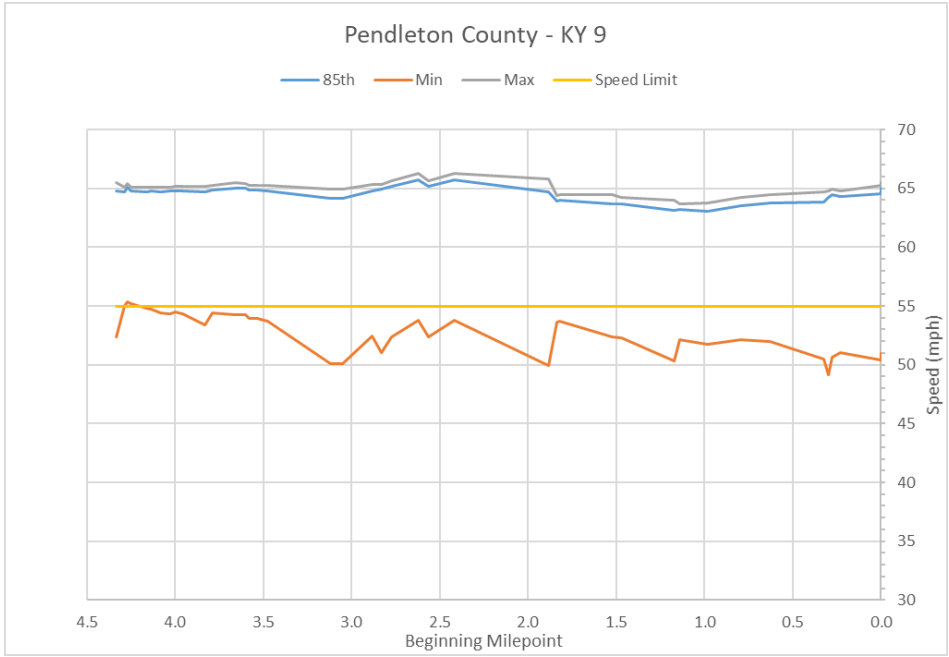


Additional Data

AA
HIGHWAY
Improvements Study

- Speed Data
- Geometric Review
- Future Year Traffic Forecast
- Signal Timing
- Turning Movement Counts

Speed Data


Pendleton County - KY 9
85th
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Speed Limit
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Speed (mph)
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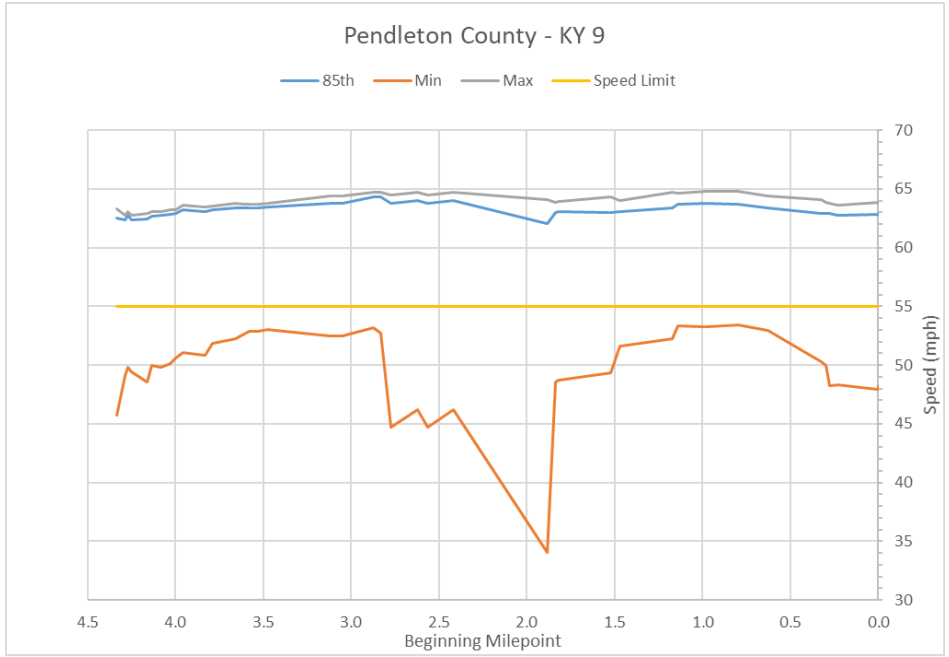
Beginning Milepoint


Pendleton County - KY 9
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Speed Limit
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Speed (mph)
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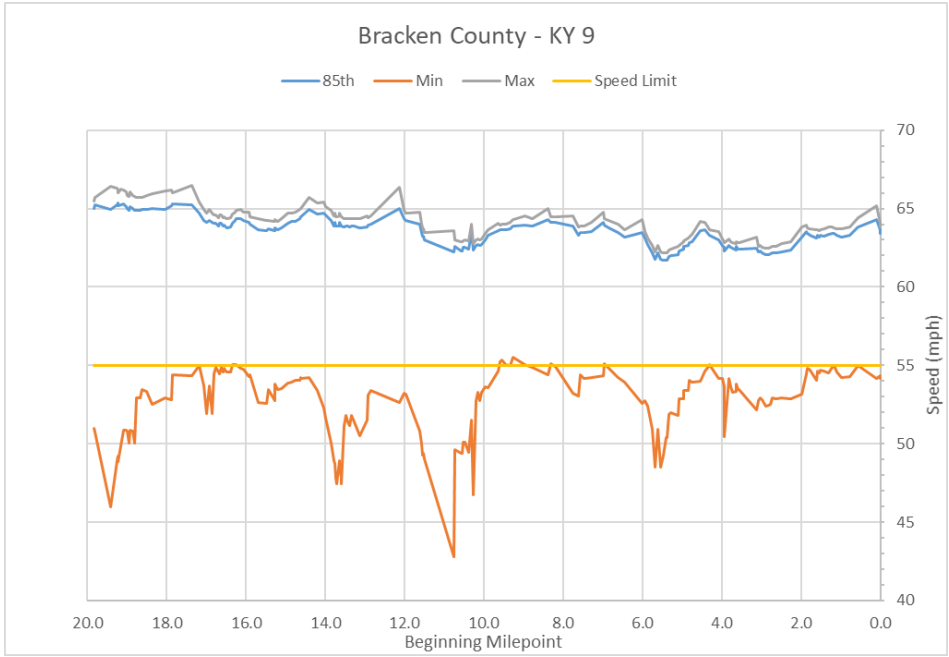
Beginning Milepoint

Speed Data


Bracken County - KY 9
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Min
Max
Speed Limit
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Speed (mph)
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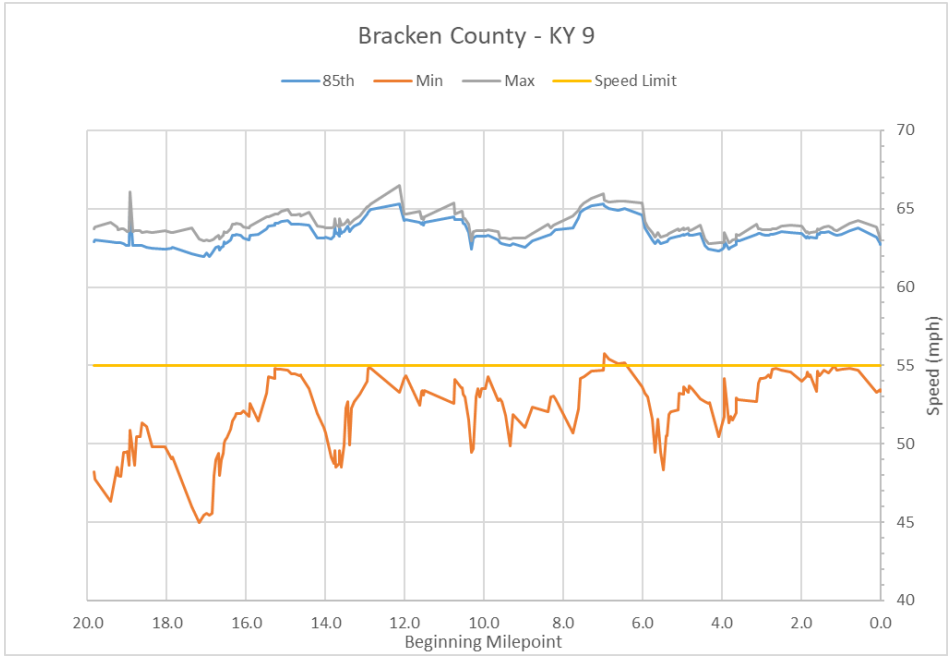
Beginning Milepoint


Bracken County - KY 9
85th
Min
Max
Speed Limit
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Speed (mph)
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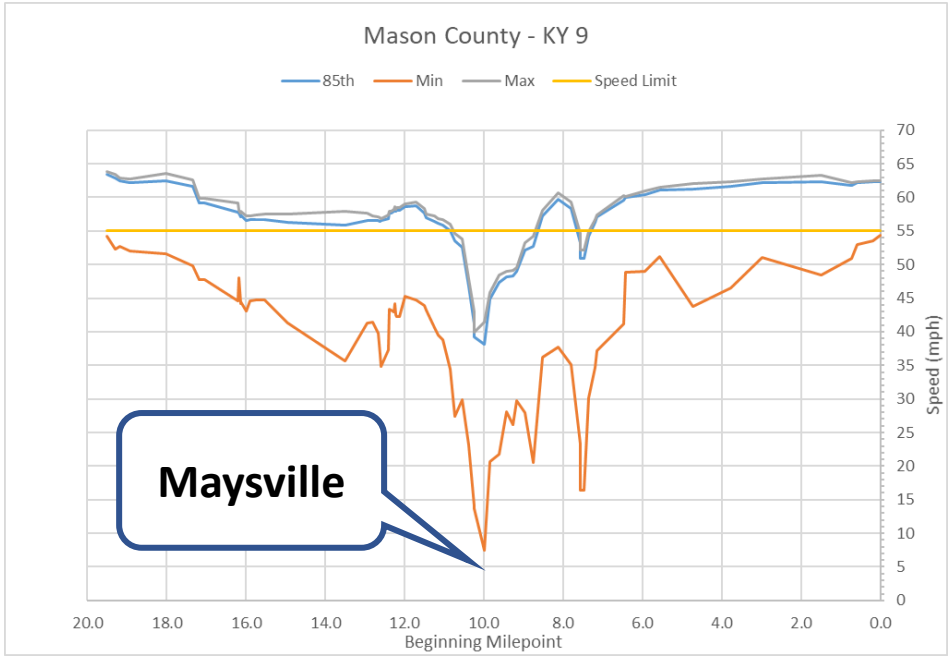
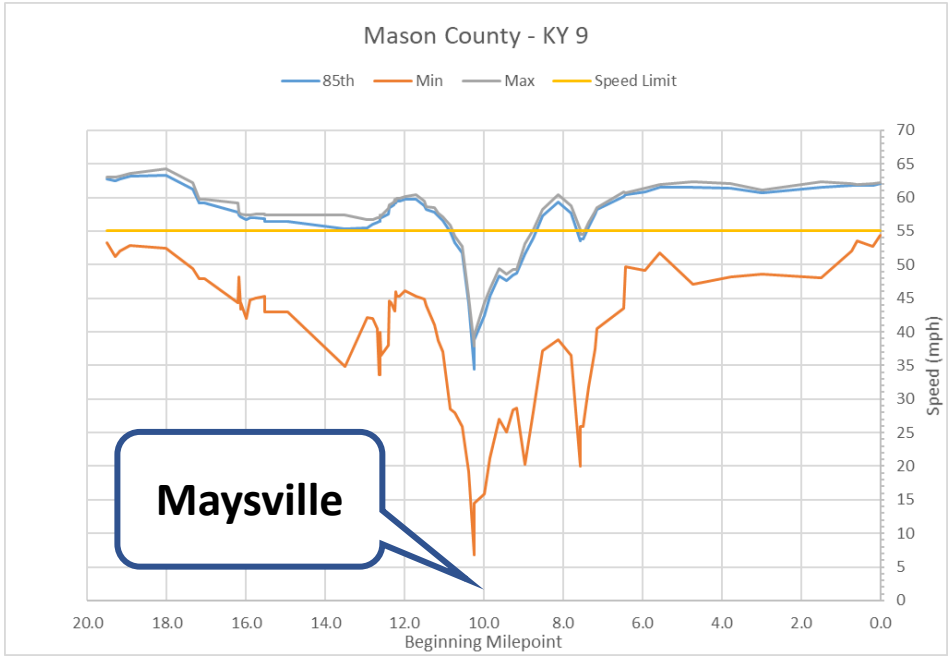
Beginning Milepoint

Speed Data


Mason County - KY 9
85th
Min
Max
Speed Limit
Speed (mph)
Beginning Milepoint
Maysville


Mason County - KY 9
85th
Min
Max
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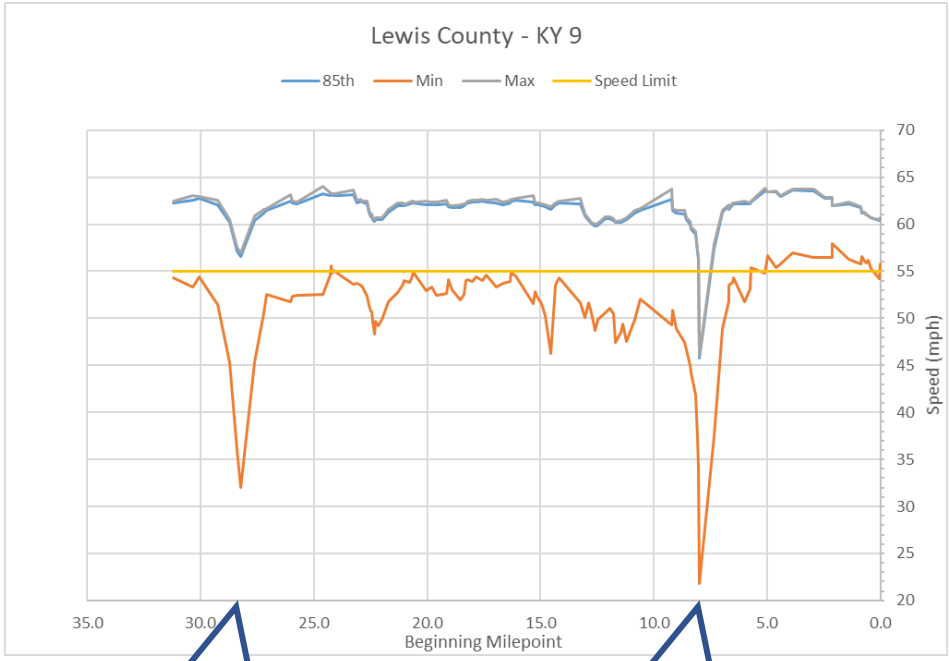
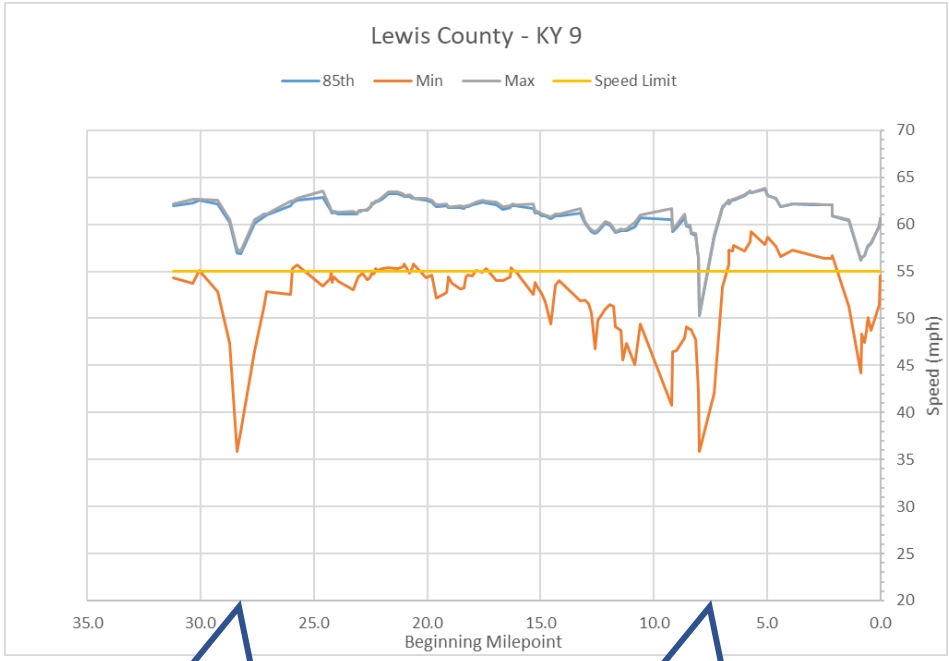
Beginning Milepoint
Maysville

Speed Data



KY 57

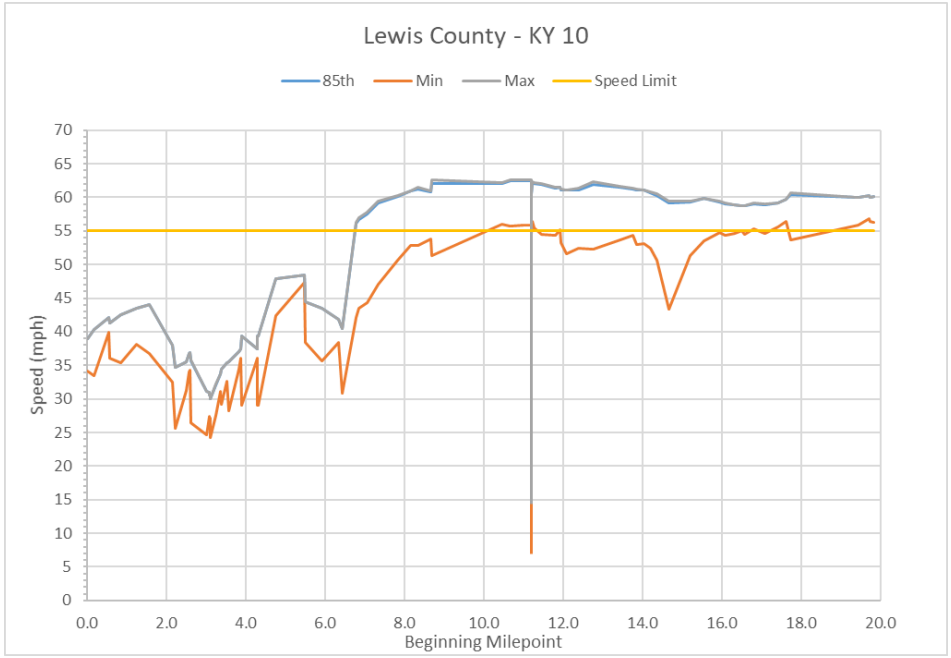
KY 9 / KY 10 Split



KY 57

KY 9 / KY 10 Split

Speed Data


Lewis County - KY 10
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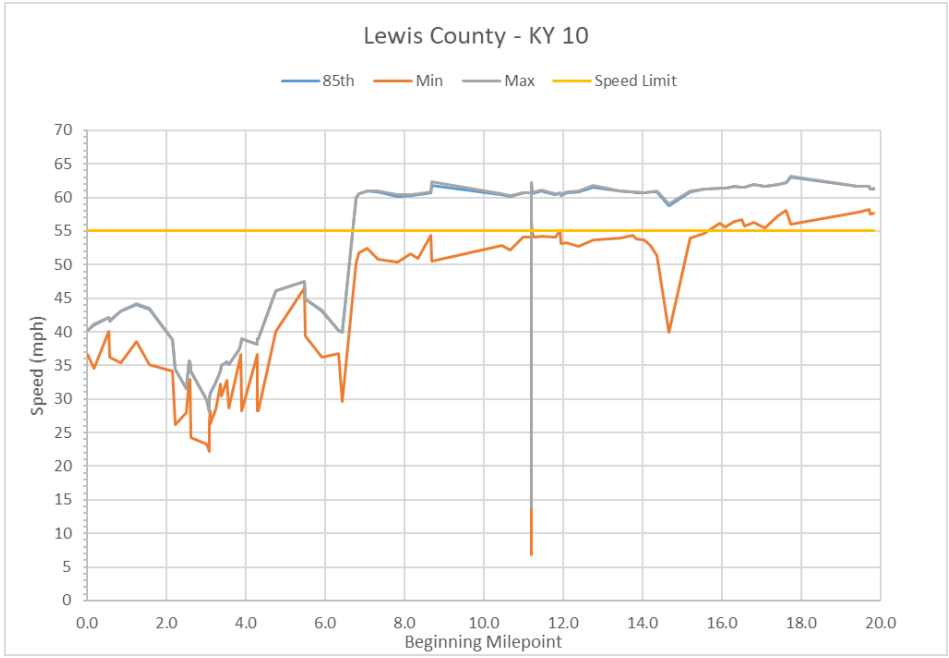
Speed Limit
Speed (mph)
Beginning Milepoint


Lewis County - KY 10
85th
Min
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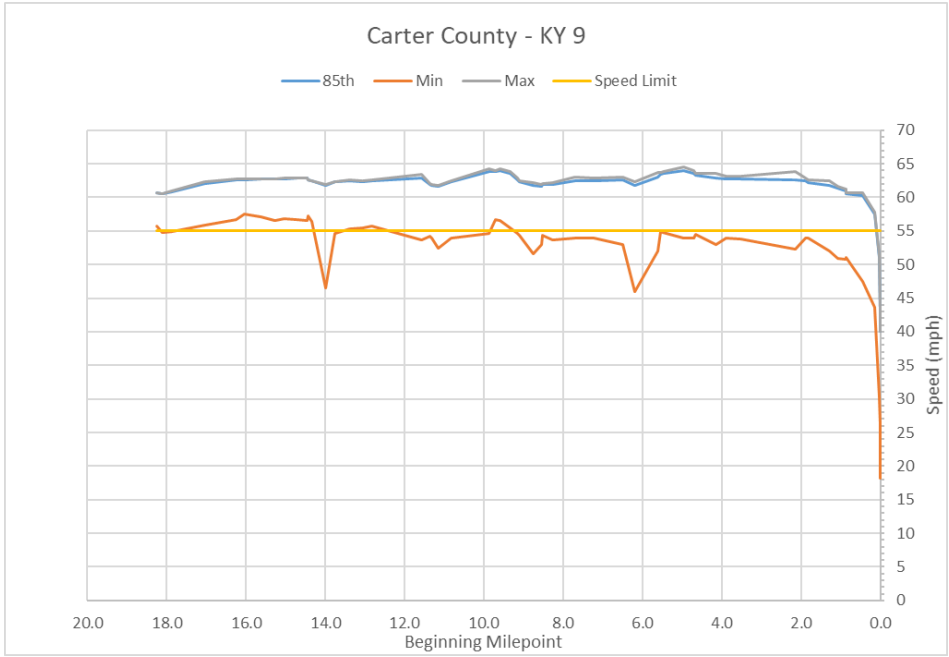
Speed Limit
Speed (mph)
Beginning Milepoint

Speed Data


Carter County - KY 9
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Speed (mph)
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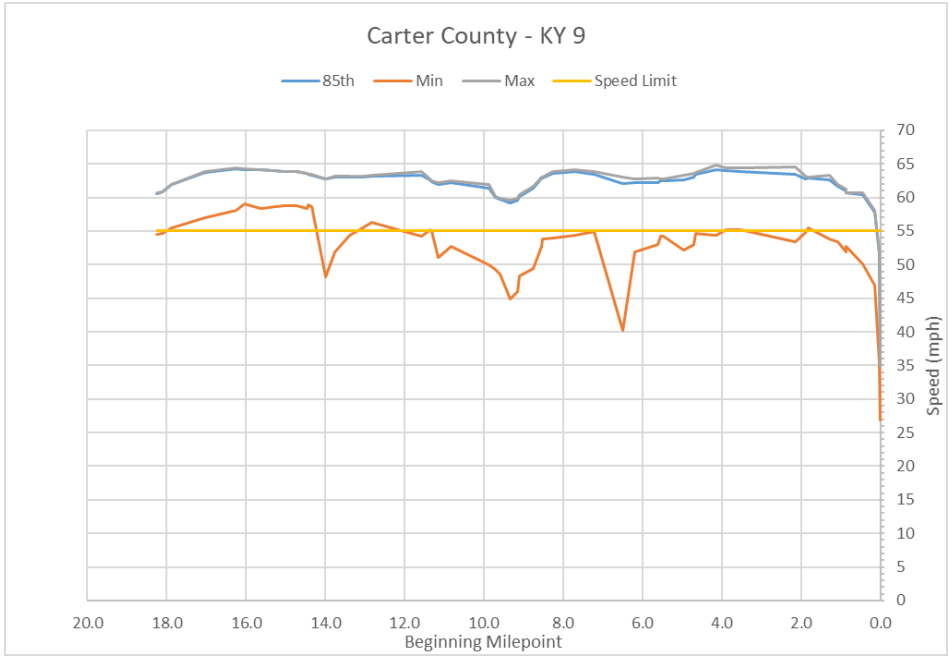
Beginning Milepoint


Carter County - KY 9
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Speed (mph)
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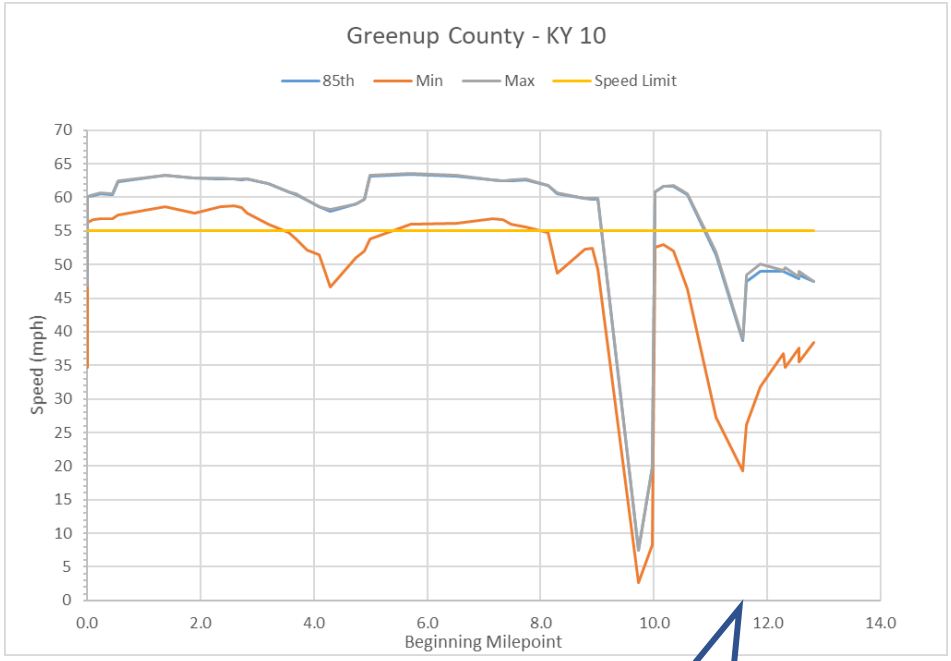
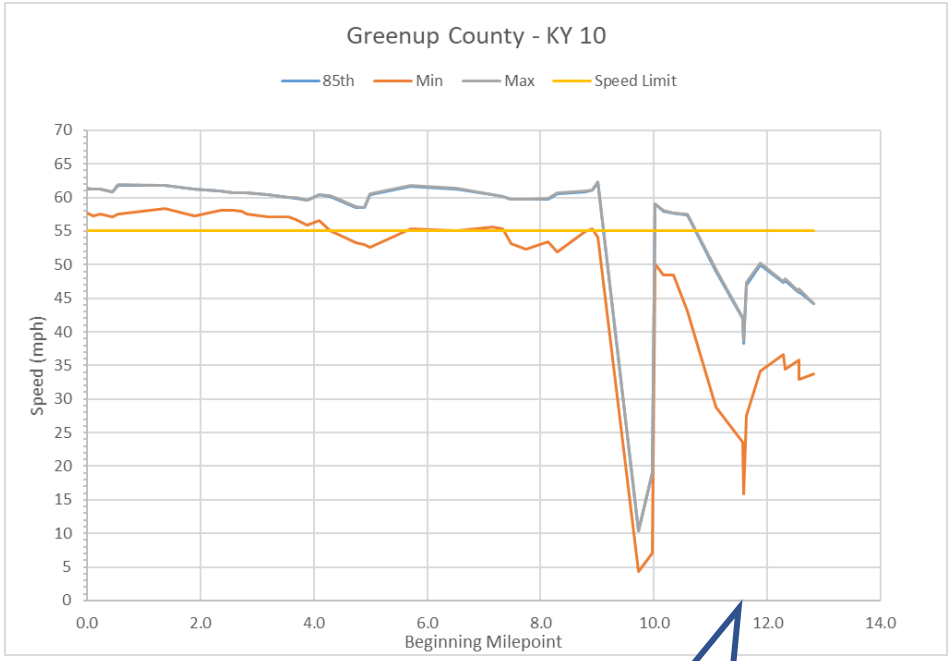
Speed Data


Greenup County - KY 10
85th
Min
Max
Speed Limit
Speed (mph)
Beginning Milepoint
US 23


Greenup County - KY 10
85th
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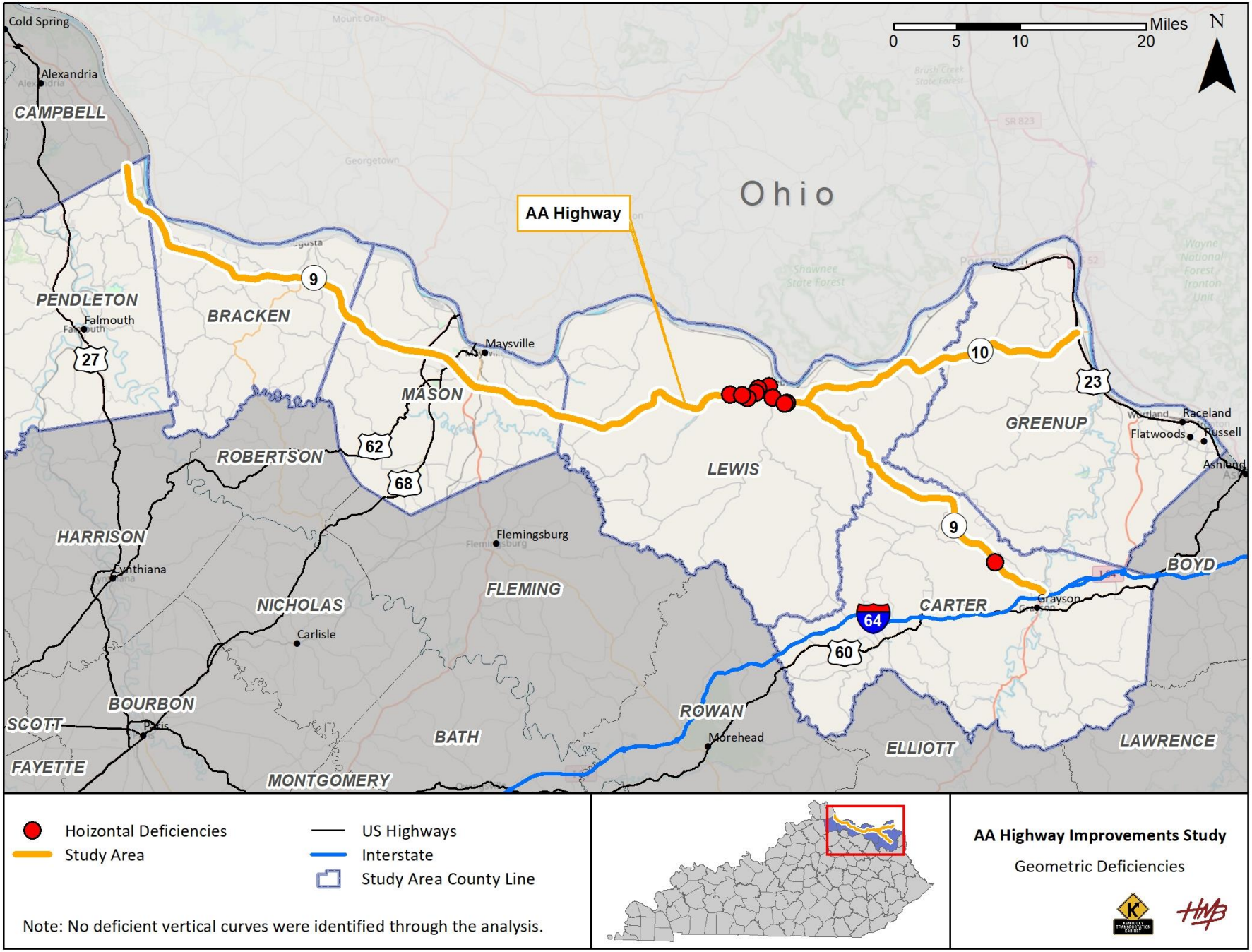
Speed Limit
Speed (mph)
Beginning Milepoint
US 23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Flemingsburg
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Carlisle
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Russell
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Hoizontal Deficiencies
Study Area
US Highways
Interstate
Study Area County Line
Note: No deficient vertical curves were identified through the analysis.
AA Highway Improvements Study
Geometric Deficiencies


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Truck Climbing Lane
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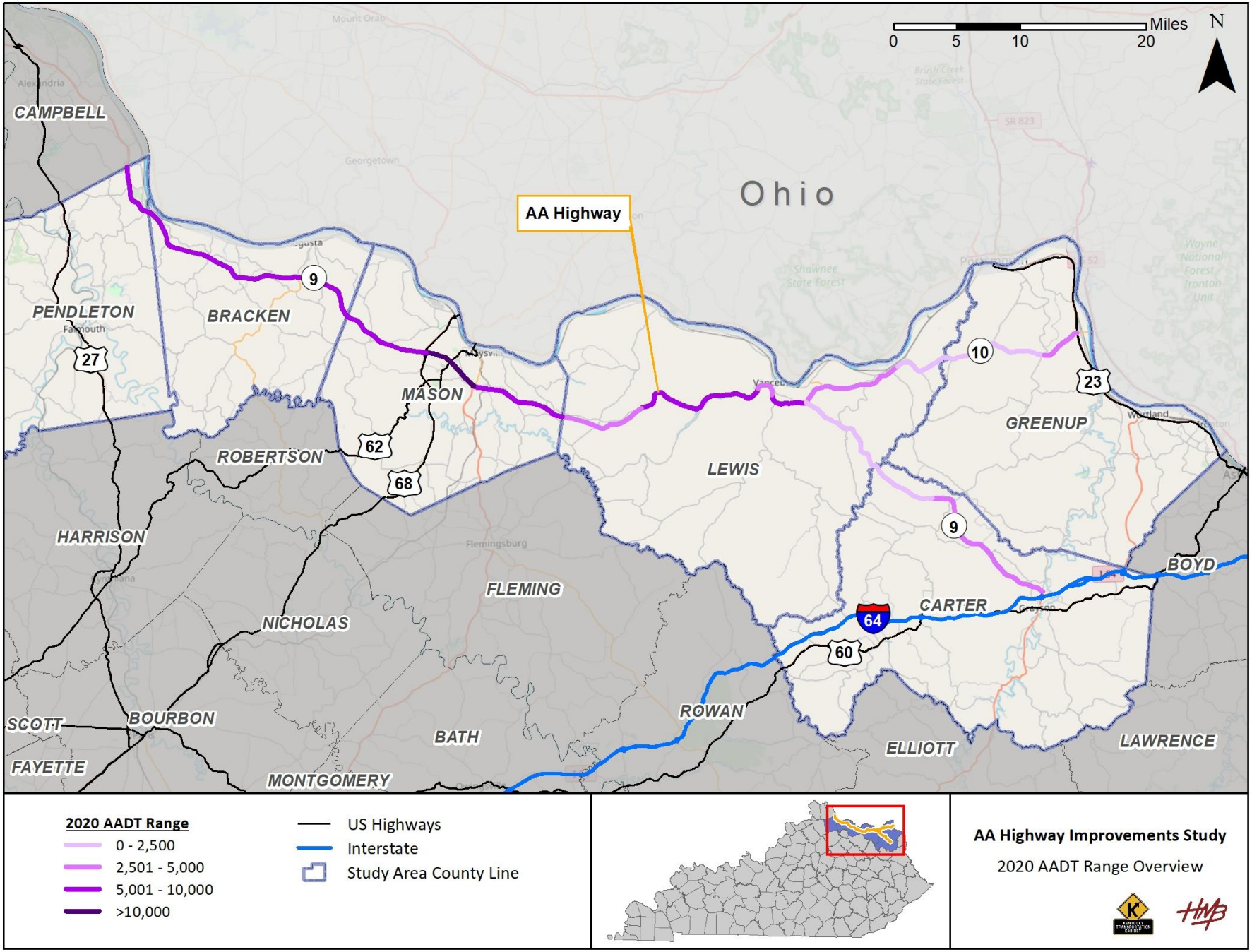
US Highways
Interstate
Study Area County Line
AA Highway Improvements Study
Truck Climbing Lanes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2020 AADT Range
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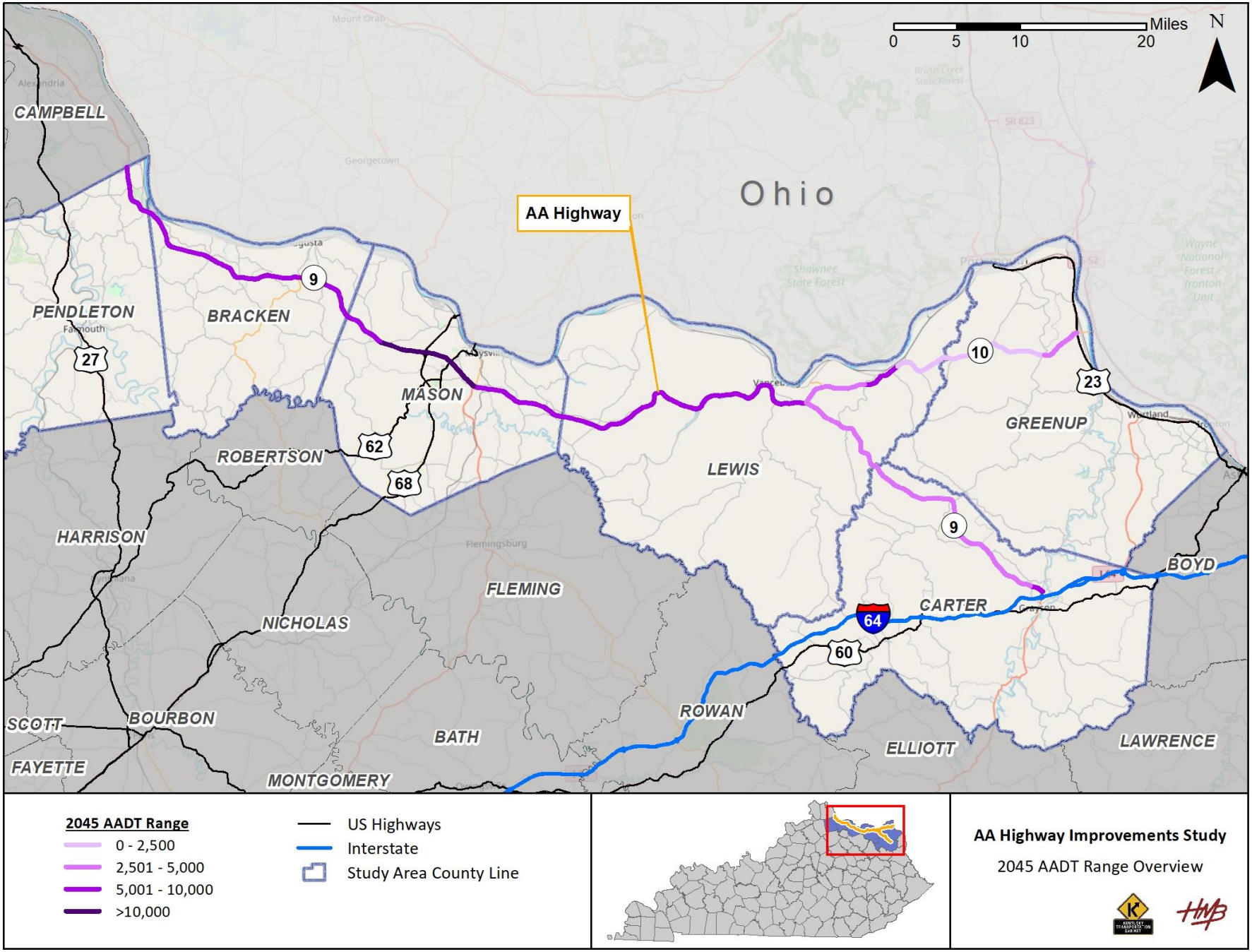
>10,000
US Highways
Interstate
Study Area County Line
AA Highway Improvements Study
2020 AADT Range Overview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2045 AADT Range
0 - 2,500
2,501 - 5,000
5,001 - 10,000
>10,000
US Highways
Interstate
Study Area County Line
AA Highway Improvements Study
2045 AADT Range Overview

Signal Locations

Route	County	Intersecting Road	MP
KY 9	Mason	Downing Dr	12.394 - 12.694
KY 9	Mason	Kenton Station Dr	10.698 - 10.998
KY 9	Mason	US 62	9.962 - 10.567
KY 9	Mason	Market Square Dr	9.250 - 9.850
KY 9	Mason	Wal-Mart Way	
KY 9	Mason	Maple Leaf Rd	8.969
KY 9	Mason	KY 11	7.479 - 7.779
KY 9	Mason	KY 57	28.380
KY 10	Greenup	US 23	11.582
KY 9	Carter	KY 1	0.000

Turning Movement Counts

		Route	County	Intersecting Road	MP	Notes
HMB	1	KY 9	Bracken	Iler Rd	19.805	Attendee representing County requested turn lanes at these locations.
	2	KY 9	Bracken	Holts Creek Rd	17.878	
	3	KY 9	Bracken	Eden Ridge Rd	15.687	
	4	KY 9	Bracken	Mt. Zion Rd	7.751	
Abbie Jones	1	KY 9	Mason	Downing Dr	12.620	Includes ramps from US 68.
	2	KY 9	Mason	Kenton Station Dr	10.860	Consideration of a right turn lane by District here?
	3	KY 9	Mason	US 62	10.260	Major intersection with high crash rate.
	4	KY 9	Mason	Market Square Dr	9.850	Look at traffic flow / improvements as a system for this area.
	5	KY 9	Mason	Tucker Dr	9.610	
	6	KY 9	Mason	Wal-Mart Way Entrance 1	9.430	
	7	KY 9	Mason	Wal-Mart Way Entrance 2	9.270	
KYTC D9	1	KY 9	Mason	KY 11	7.560	Look at separate right turn lanes?
	2	KY 9	Mason	Clarkson Sherman Rd	4.740	Count data for trucks turning into / out of landfill.
	3	KY 9	Lewis	KY 59 / Fairlane Dr	11.210	Need signal? Right turn lanes?
	4	KY 9	Carter	KY 7 (North)	6.498	LO/S input noted near misses - request for turn lanes.
	5	KY 9	Carter	KY 7 (South)	5.486	LO/S input noted near misses - request for turn lanes.
	6	KY 9	Carter	KY 1959	1.078	LO/S input noted near misses - request for turn lanes.

Count Pending

Improvement Concept Development Process

Development Process

AA HIGHWAY *Improvements Study*

High Crash Spots
Local Official / Stakeholder Input
Previous Studies
Identified and Committed Projects

Review Crashes Locations in New Construction
Remove HSIP Project
Consolidate to Corridor Concept if Applicable
Collect Detailed Crash Records
Perform Turning Movement Counts

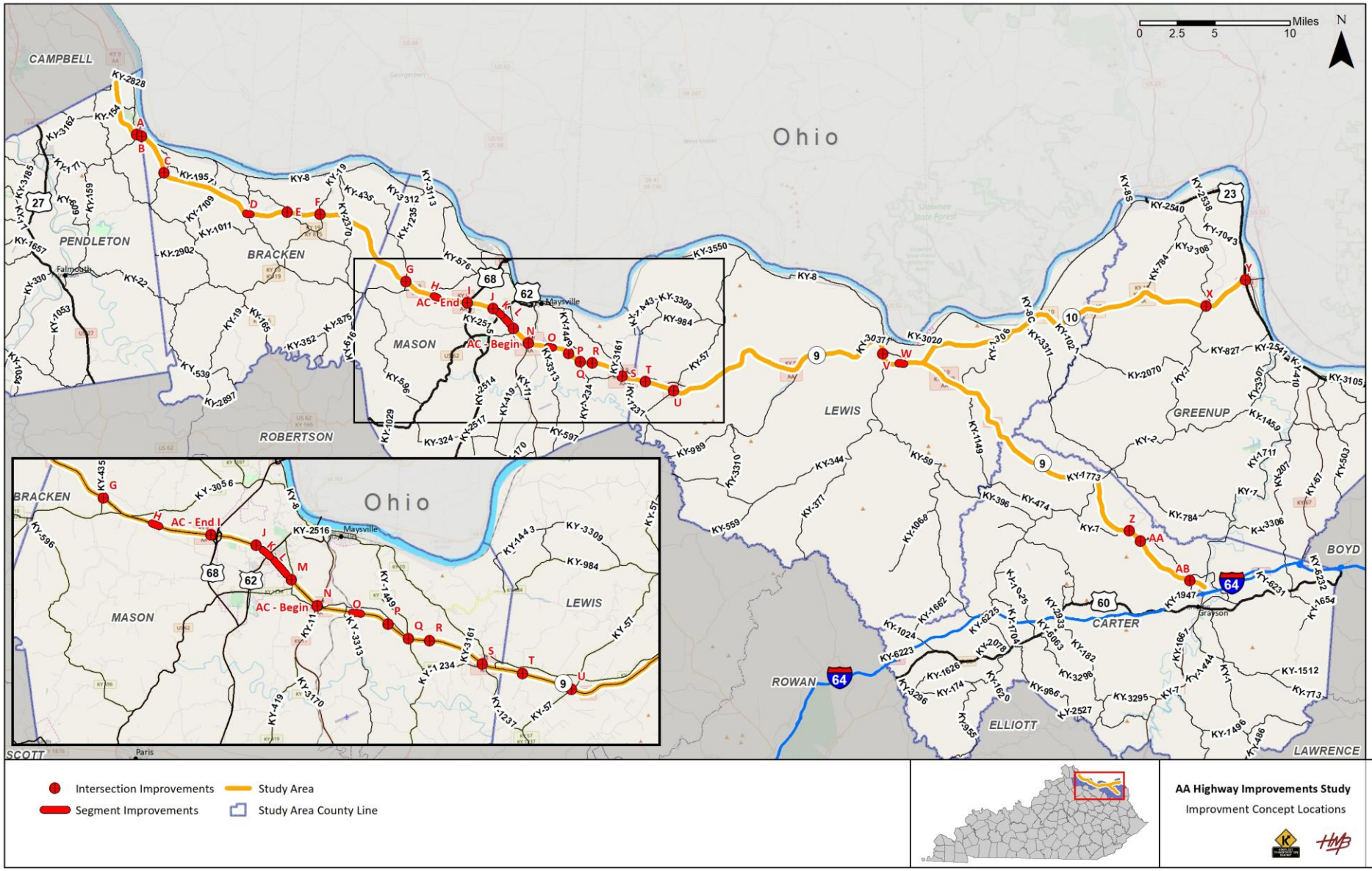
29 Preliminary Improvement Spots
5 Preliminary Improvement Corridors

Locations Not Further Studied

Location				High Crash Location?		LO/S Input		Reason for Dismissal for Further Consideration
Route	County	Intersecting Route	Milepoints	Yes/No	CRF	# Responses	Comment	Notes
KY 9	Pendleton	Short Ivor Rd	3.628 - 3.928	Yes	1.06	0	-	On CRF threshold and no LO/S comments
KY 9	Bracken	Foster Rd	18.809	No	-	1	Need Turn Lanes	KY 2228 Going to County - Iler Road being evaluated for turn lanes
KY 9	Bracken	Kennon Rd	18.335 - 18.635	No	-	0		Just under CRF threshold - Exploring as part of corridor-wide evaluation of where to add or modify truck climbing lanes
KY 9	Bracken	Holts Creek Rd	17.612 - 17.912	No	-	1	Need Turn Lanes	Traffic counts show turn lanes not warranted
KY 9	Bracken	N/A	15.850 - 16.150	No	-	0		Just under CRF threshold - Exploring as part of corridor-wide evaluate of where to add or modify truck climbing lanes
KY 9	Bracken	Eden Ridge Rd	15.687	No	-	1	Need Turn Lanes	Traffic counts show turn lanes not warranted
KY 9	Bracken	Hook Ln	2.831	No	-	1	Turning Traffic with Trailers	Located in developing area. Recommend any further improvements occur as a result of development
KY 9	Mason	N/A	7.560 - 12.400	No	-	1	Reduce Speed	Included as part of larger project to look at speed limit reduction around Maysville
KY 9	Mason	Strodes Run Pike	6.990-7.425	Yes	1.02	0	-	Just at CRF threshold - Exploring as part of corridor-wide evaluation of where to add or modify truck climbing lanes
KY 9	Mason	N/A - Farm Entrance	5.200 - 5.400	No	-	0	-	Fatality involved alcohol
KY 9	Lewis	N/A	29.000	No	-	2	Pavement Issue - Pavement Markers	Including as part of corridor project for pavement work
KY 9	Lewis	Simmons Rd	27.175 - 27.475	No	-	0		Just under CRF threshold and no LO/S comments
KY 9	Lewis	N/A	21.200	No	-	2	Short Passing Lane	Exploring as part of corridor-wide evaluation of where to add or modify truck climbing lanes
KY 10	Lewis	KY 3311	14.183 - 14.483	No	-	0	-	Just under CRF threshold and no LO/S comments
KY 9	Carter	KY 1	0.000	No	-	1	Right Lane Drops; Truck Issues	Exploring as part of corridor-wide evaluation of signage

Improvement Concepts

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Intersection Improvements
Segment Improvements
Study Area
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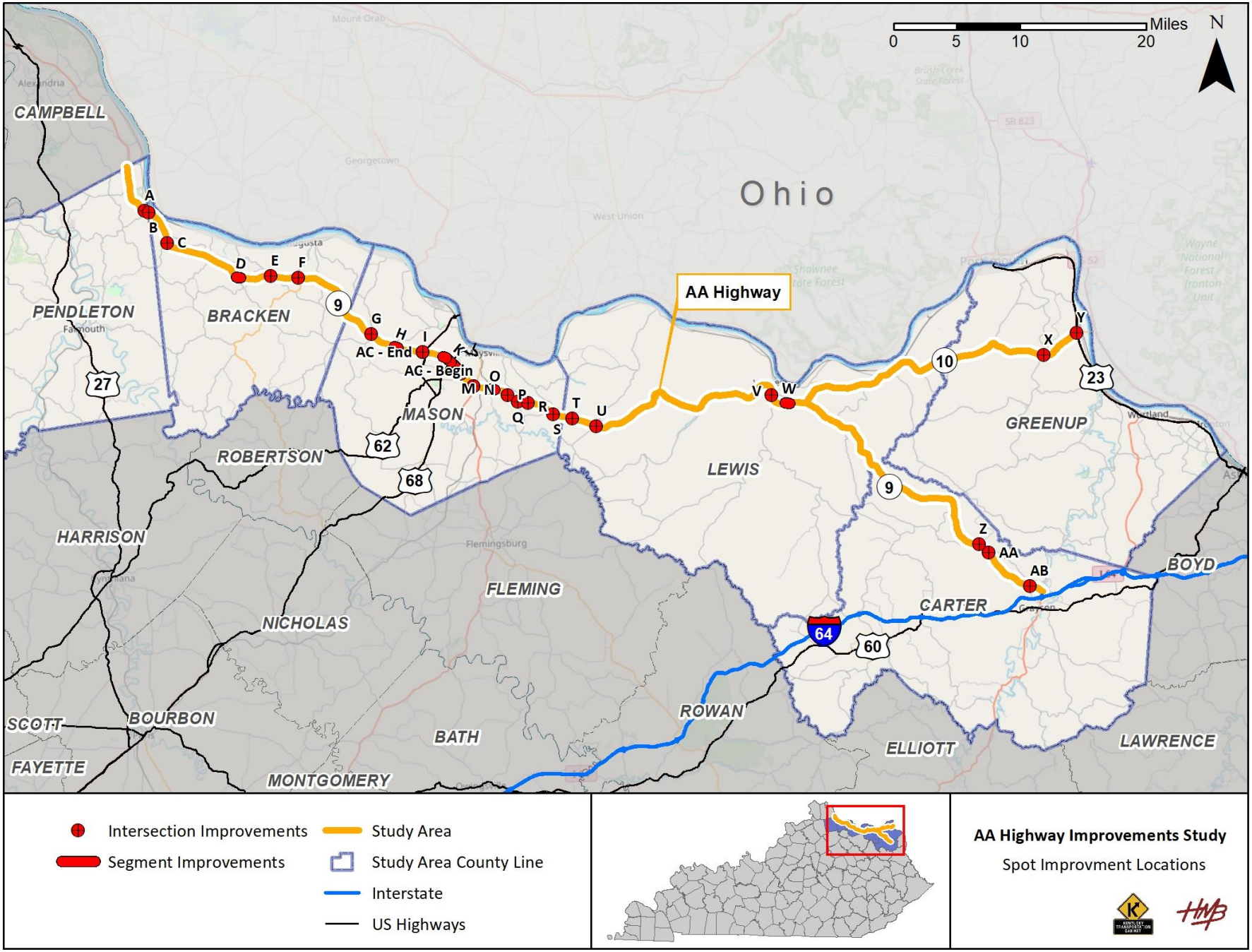
AA Highway Improvements Study
Improvment Concept Locations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Intersection Improvements
Segment Improvements
Study Area
Study Area County Line
Interstate
US Highways
AA Highway Improvements Study
Spot Improvment Locations

LO/S Meeting No. 2 Preparation



LO/S Meeting No. 2

AA
HIGHWAY
Improvements Study

- May Board Meeting Dates:
  - May 18, 2020 (FIVCO)
  - May 19, 2020 (BTADD) – Not available for LO/S Meeting
- Format:
  - Presentation
    - Quick Review of Study Elements
    - Summary of Meeting No. 1 Input
    - Process for Concept Improvement Development
    - Concept Improvement Overview
  - Prioritization Input Tool
    - Similar Web Interface as used in Meeting No. 1
    - Concept Improvements Identified on Map
    - Request Input on Type of Improvement and Priority (High, Medium, Low)

Next Steps

1. Revise Locations / Conceptual Improvements
2. Develop Cost Estimates
3. Prepare Prioritization Survey Input Tool

Contacts

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Dane.Blackburn@ky.gov

Matt Dillon
Michael Read
KYTC District 9 Project Managers
Matt.Dillon@ky.gov
Michael.Read@ky.gov

KENTUCKY TRANSPORTATION CABINET

AECOM

FINAL Meeting Minutes

Project: **AA Highway Improvements Study**

Subject: **Local Officials / Stakeholder Meeting No. 2**

Note: The Local Officials / Stakeholder Meeting No. 2 was split into two meetings due to the length of the study corridor. The date and list of attendees are shown for each. However, the summary and input from both is summarized together due to similarity between the meetings and the method of input received.

First Meeting:

Date: **Tuesday, July 14, 2020, 9:30 AM (Eastern Time)**

Location: **FIVCO Area Development District – Virtual Zoom Meeting**

Attendees:

Beth Niemann	KYTC Central Office Planning
Steve Ross	KYTC Central Office Planning
Matt Lawson	KYTC Central Office Planning
Sadie Middleton	KYTC Central Office Planning
Kevin Sandefur	KYTC Central Office District 6 Location Engineer
Randy Turner	KYTC Central Office District 9 Location Engineer
Darrin Eldridge	KYTC District 9 Project Development Branch Manager
Karen Mynhier	KYTC District 9 Environmental
Matt Dillon	KYTC District 9 Planning
Michael Read	KYTC District 9 Planning
Allen Blair	KYTC District 9 Public Information Officer
Bob Yeager	KYTC District 6 Chief District Engineer
Mike Bezold	KYTC District 6 Project Development Branch Manager
Craig Walker	KYTC District 6
Stacee Hans	KYTC District 6
Vicki Green	FIVCO
Jeff Thelen	NKADD
Terri Sicking	KYOVA
George Steele	Mayor of Grayson
Cheryl Moore	Mayor of South Shore
Kathy Hinkle	Representative, 96th District
Roger Dunfee	City of Grayson EM Director
Erica Kiser	Knott County Schools
Ron Fields	Mayor of Flatwoods
Lindsay Walker	HMB
Brad Johnson	HMB
Joey Mosley	HMB
Jarrod Johnson	HMB
John Callihan	AECOM

Second Meeting:

Date: **Thursday, July 16, 2020, 1:30 PM (Eastern Time)**

Location: **Buffalo Trace Area & Northern Kentucky Area Development District Virtual Zoom Meeting**

Attendees:

Stephen DeWitte	KYTC Central Office Planning
Beth Niemann	KYTC Central Office Planning
Steve Ross	KYTC Central Office Planning
Matt Lawson	KYTC Central Office Planning
Sadie Middleton	KYTC Central Office Planning
Kevin Sandefur	KYTC Central Office District 6 Location Engineer
Randy Turner	KYTC Central Office District 9 Location Engineer
Steve Gunnell	KYTC District 9 Chief District Engineer
Darrin Eldridge	KYTC District 9 Project Development Branch Manager
Karen Mynhier	KYTC District 9 Environmental
Matt Dillon	KYTC District 9 Planning
Michael Read	KYTC District 9 Planning
Blake Jones	KYTC District 9
Allen Blair	KYTC District 9 Public Information Officer
Mike Bezold	KYTC District 6 Project Development Branch Manager
Craig Walker	KYTC District 6
Amy Kennedy	BTADD
Missy Hardy	BTADD
Craig A. Stanfeild	BTADD – Real Estate & Auction Services
Jeff Thelen	NKADD
Owen McNeil	Maysville-Mason County IDA
Todd Ruckel	Lewis County Judge Executive
Tina Teegarden	Bracken County Judge Executive
Sen. Will Schroder	Kentucky State Senate – District 24 (Bracken, Pendleton)
Rep. Richard White	Kentucky State House – District 99 (Lewis)
Rep. John Sims Jr.	Kentucky State House – District 70 (Bracken, Mason)
Courtney Kleier	NKY Chamber of Commerce
Neider Reynolds	Bracken County EMS
Craig Miller	Bracken County Fiscal Court
Jamie Weddington	Lewis County Schools Superintendent
Joe Pfeffer	Mason County Judge Executive
Bob Hendrickson	Maysville Chamber of Commerce Interim Executive Director
Kristin Baldwin	Northern Kentucky Chamber of Commerce
Clay Buser	Mason County EMS
George Sparks	Lewis County EMS
Lindsay Walker	HMB
Brad Johnson	HMB
Jarrod Johnson	HMB
John Callihan	AECOM

Attachments:

- *Improvement Concept Sheets*

Agenda / Presentation:

To facilitate the meetings the following materials were used

- Interactive Online StoryMap
- Improvement Concept Sheets

Meeting Comments / Summary:

For the second local officials / stakeholders (LO/S) meeting, an ArcGIS StoryMap format was used that presented information on the study background, previous input from the first LO/S meeting, improvement concept development and evaluation, and the improvement concepts. Survey polls were conducted throughout the meeting to provide opportunities for interaction along with time after each topic for opportunities for discussion.

HMB completed the meeting by demonstrating an input tool to collect feedback on the improvement concepts and prioritization. Darrin Eldridge requested that anyone that had any comments or suggestions on this new virtual meeting format and input to please let the project team know so that any improvements can be made for the future. HMB provided the web mapping application website link to attendees which is:

https://arcg.is/1n9Cyu

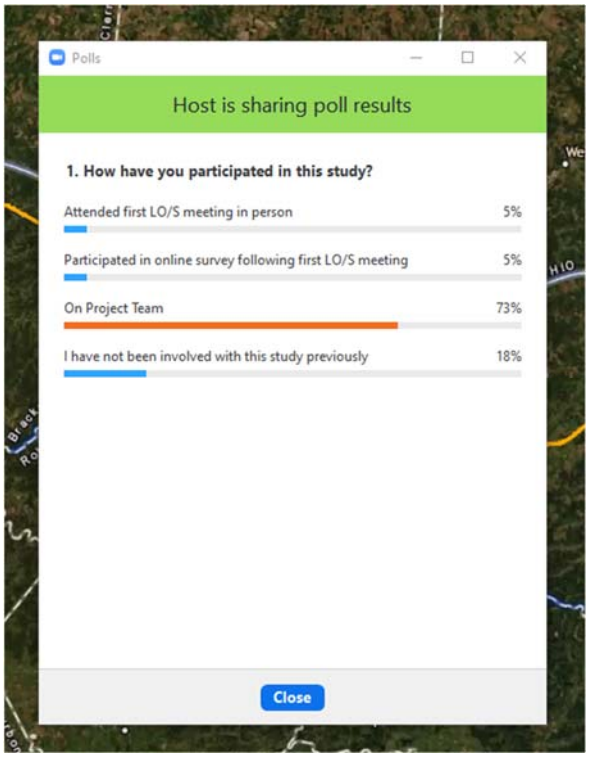
The results from the input received from this website are summarized at the end of this document. Comments and screenshots of the poll results posed during the meeting can be seen on the following pages for each meeting.

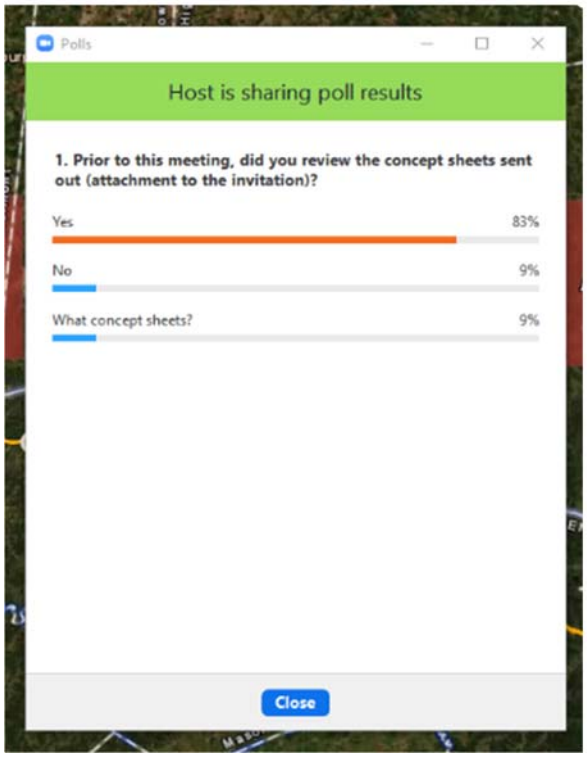
July 14th Meeting (FIVCO ADD LO/S)

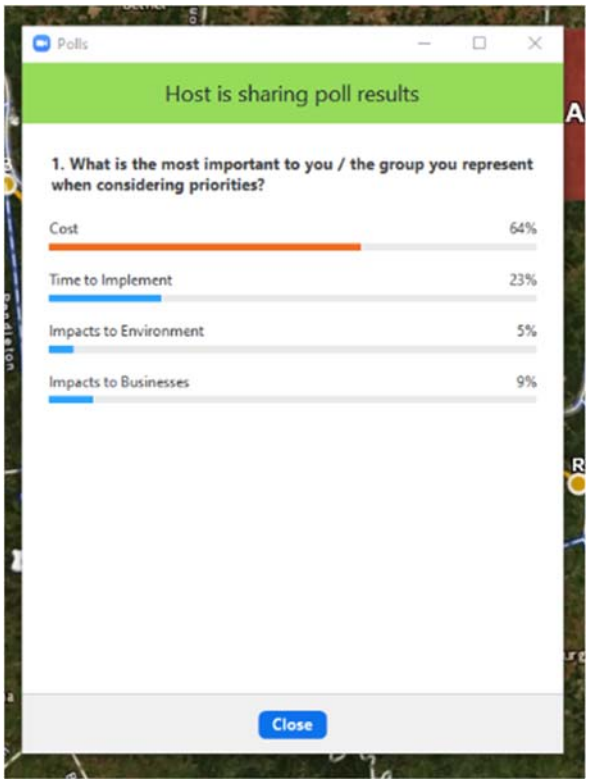
Darrin Eldridge with KYTC District 9 began the meeting by introducing KYTC project managers and the consultant project manager Lindsay Walker of HMB. He also provided a brief introduction and then turned the presentation over to Lindsay with HMB.

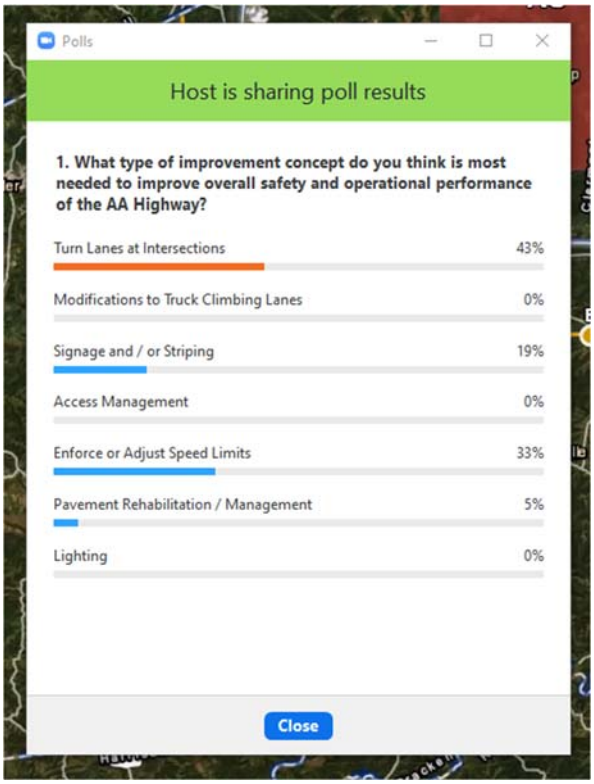
There were no comments made during this meeting. The poll results from the meeting can be seen on the following page:

Poll Questions (July 14th Meeting)









July 16th Meeting (BTADD/NKADD LO/S)

Steve Gunnell with KYTC District 9 began the meeting by introducing KYTC project managers and the consultant project manager Lindsay Walker of HMB. He also provided a brief introduction and then turned the presentation over to Lindsay with HMB.

The following were comments made during the meeting:

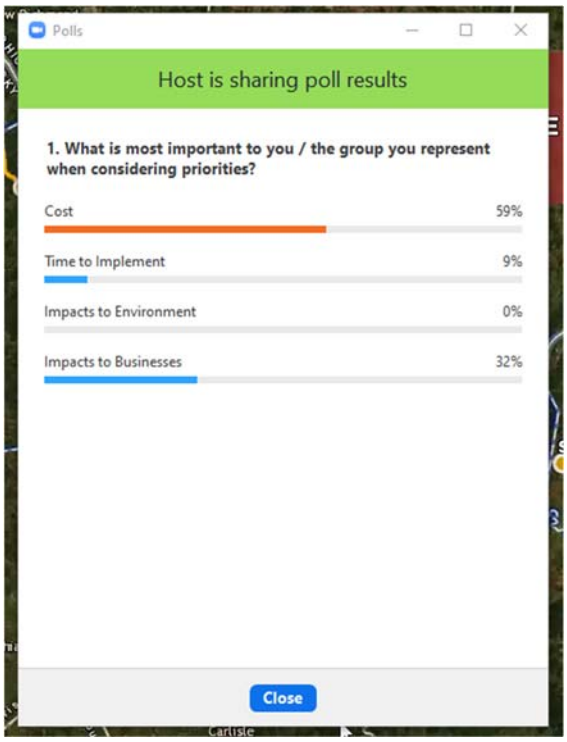
- During the presentation of identified locations not further studied, Amy Kennedy of BTADD asked for more information about the reasons why they were removed, specifically at the intersection of Hook Lane. HMB responded that these areas were removed for various reasons including a combination of items shown below:
    - Number of crashes or absence of crashes
    - Turn lane warrants not met after traffic counts were conducted
    - Location was merged into a larger "Corridor-Wide" improvement such as truck climbing lane improvements and pavement condition improvements.
    - **HMB will send more information regarding these locations.**
- There was a discussion initiated by Jamie Weddington, Lewis County Schools Superintendent, about the intersection of KY 9 (AA Highway) and KY 2523 (Lions Lane) and why it was not included. HMB responded that it had no crash history, and already had turn lanes, caution lights, and was not included by local officials and stakeholders as part of the first LO/S meeting input. Todd Ruckel seconded Mr. Weddington and both went into further detail about the need to include the intersection. It was stated that this intersection sees a large amount of school traffic including several young, inexperienced drivers since it provides access to Lewis County High School and Middle School. It was stated that this could lead to potential crashes, and with high speeds along the AA highway as well as the intersection sitting between two curves, there is a potential for injuries. It was also made known that a new medical facility is going to be built to the west of the intersection and may increase traffic in this location. HMB stated that they will add the Lions Lane intersection as an improvement concept area to evaluate and develop improvement options.
    - After the meeting, KYTC and HMB met with Mr. Weddington and other interested stakeholders regarding potential improvement options at this location. Potential modifications to the Lewis County Schools property was made aware to the project team to help coordinate any improvement options made at this intersection. Several ideas were presented such as adding a second turn lane to the southbound approach of Lions Lane, adding a second entrance to the east by using the Old KY 10 roadway, or closing / modifying access to Commonwealth Drive at the intersection of Lions Lane near the KYTC maintenance garage. HMB will continue to work with stakeholders and KYTC to determine potential improvement options. **KYTC will conduct traffic counts here once school is back in session to move forward with the evaluation.**
- There was a discussion about land use zone changes and future development near the Maysville / US 62 intersection which involves concepts J and K. Owen McNeil of the Maysville – Mason County IDA noted that another 43 acres has been zoned as commercial near the corner of Maple Leaf Drive and the AA Highway, and that this will bring major retailers that will generate significant traffic.

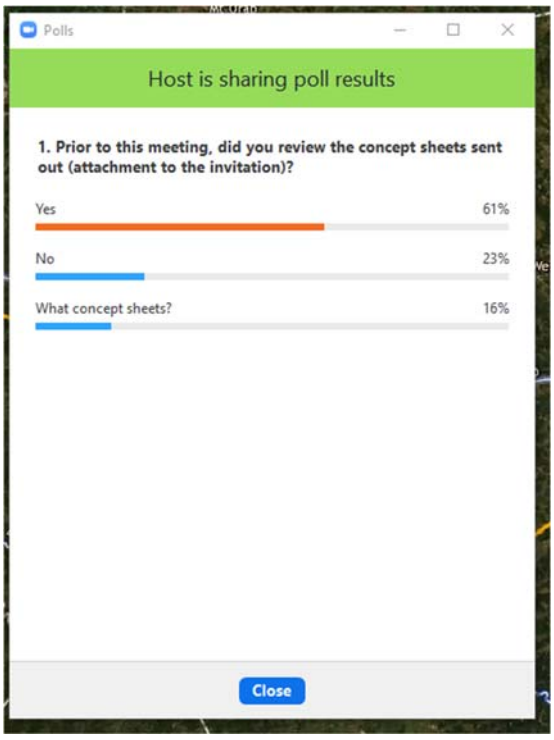
- It was also stated that there will be more tenants including a shopping center coming in along Tucker Drive causing an increase in traffic, and that drivers are currently using this corridor as a cut-through to US 62 which causes several crashes.

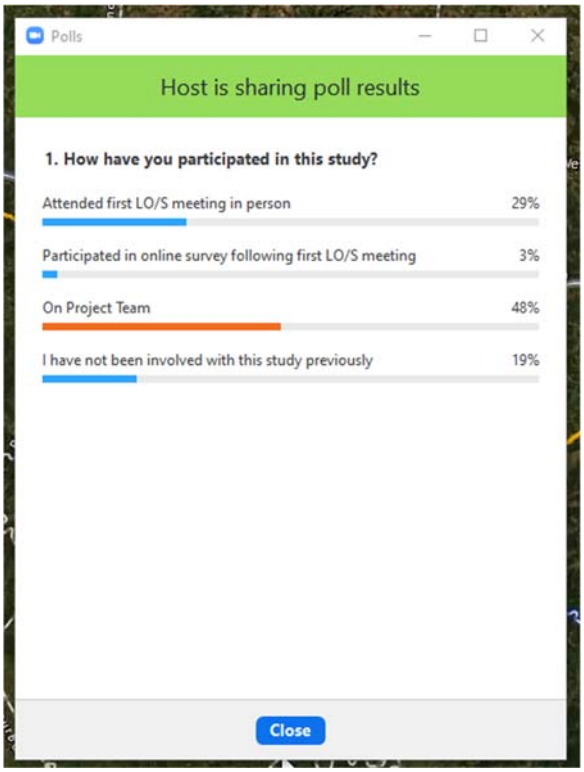
- There was a discussion about the intersection of KY 9 (AA Highway) and Clarkson Sherman Road. It was stated that this intersection has several large trucks that turn in and out of the intersection due to the Mason County Landfill. It was also stated that there is a floodwall project that will cause an increase in trucks as well. HMB stated that although KYTC had inconclusive turning movement counts at this intersection, it is included as an improvement concept involving the addition of turn lanes along KY 9 due to the extensive comments made by local officials and stakeholders.
- During the presentation of how the local officials and stakeholders could provide their priority ranking input for each improvement concept, there was a question from Craig Stanfield about how the priorities should be ranked. He asked if it is a low-cost improvement, but not particularly their favorite, what should it be ranked? HMB responded that it will differ for each individual and there are several approaches that may help rank a concept including cost, crash history, time to implement, impacts to businesses, or impacts to the environment. HMB detailed that it is important to note why you chose the priority for this reason. The results from this survey are summarized at the end of this document.
- Todd Ruckel asked if the project team was aware of a study completed at the intersection of the AA Highway and KY 59. Darrin Eldridge stated that he will also send **HMB the executive summary of the study done at this intersection.**
- Amy Kennedy stated that she can be the point of contact for anyone wanting to provide further comments or questions to the project team.

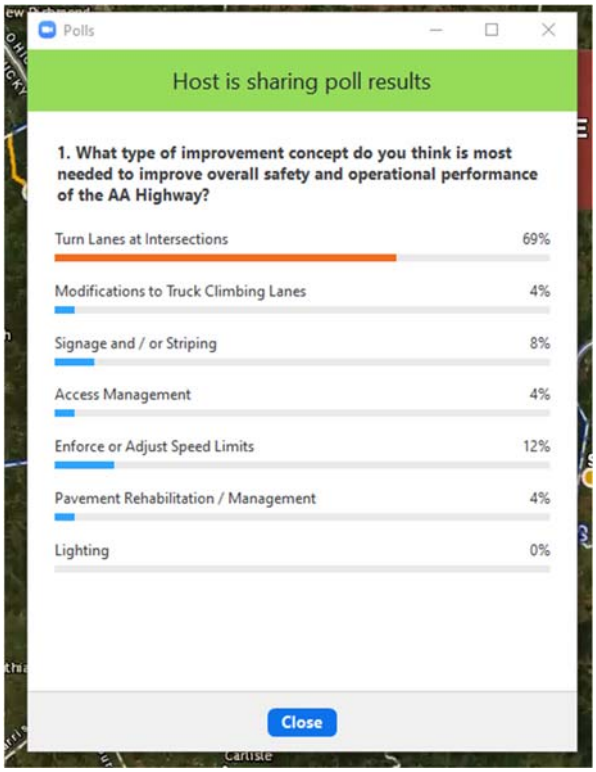
The poll results from the meeting can be seen on the following page:

Poll Questions (July 16th – FIVCO ADD LO/S Meeting)







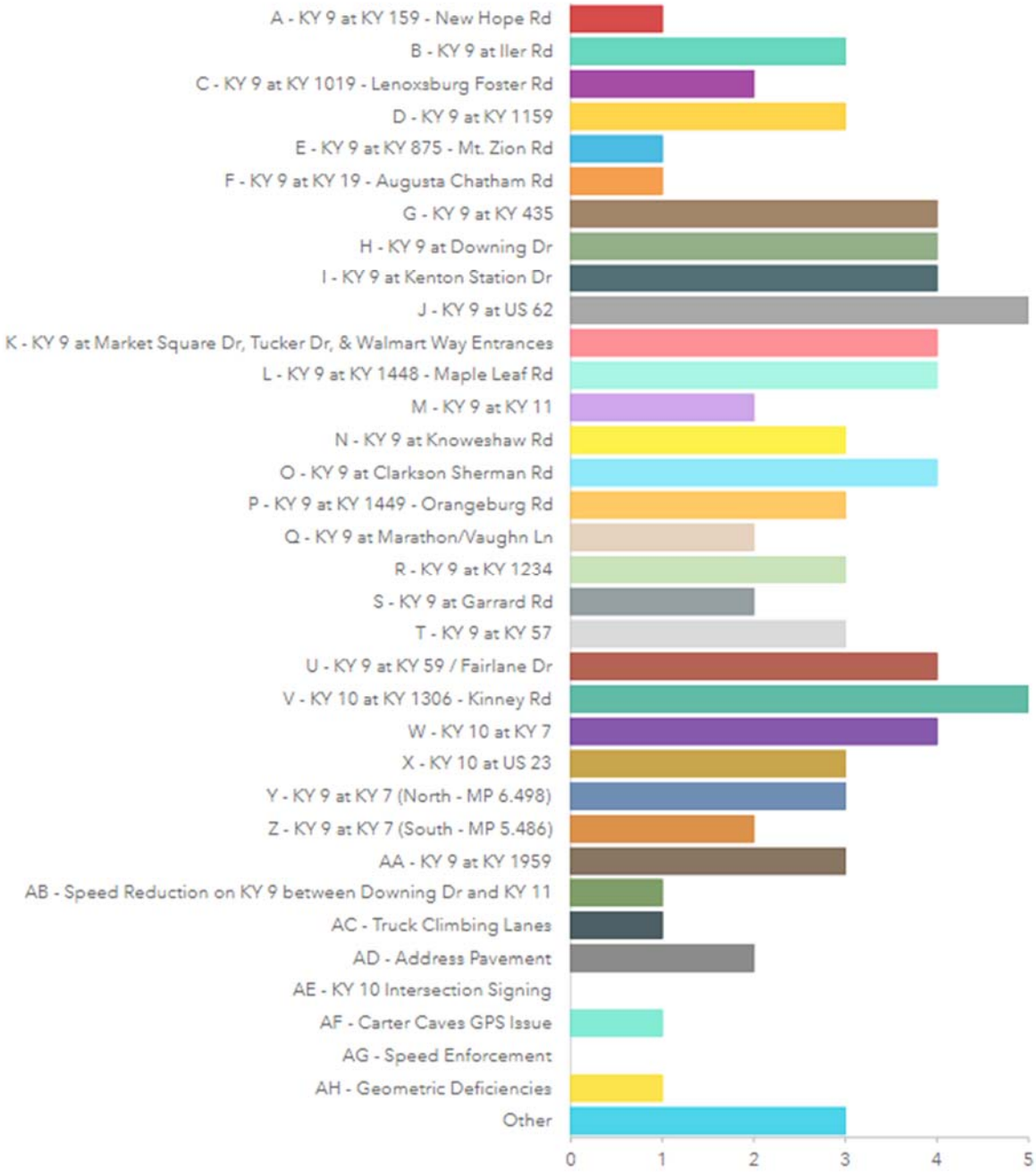


Prioritization Survey Results Summary

Local Officials and Stakeholders (LO/S) had the opportunity to provide their priorities (high, medium, or low) and comments for each concept improvement presented. Overall, there were 91 submissions to the survey. Each submission corresponds to an individual improvement concept, unless the LO/S had an additional location or comment.

Question 1: Which Concept do you want to choose a priority for?

The following chart and table show the amount of times each concept was selected to prioritize.



Question 1: Which Concept do you want to choose a priority for? (Continued)

Answers	Count	Percentage
A - KY 9 at KY 159 - New Hope Rd	1	1.1%
B - KY 9 at Iler Rd	3	3.3%
C - KY 9 at KY 1019 - Lenoxsburg Foster Rd	2	2.2%
D - KY 9 at KY 1159	3	3.3%
E - KY 9 at KY 875 - Mt. Zion Rd	1	1.1%
F - KY 9 at KY 19 - Augusta Chatham Rd	1	1.1%
G - KY 9 at KY 435	4	4.4%
H - KY 9 at Downing Dr	4	4.4%
I - KY 9 at Kenton Station Dr	4	4.4%
J - KY 9 at US 62	5	5.49%
K - KY 9 at Market Square Dr, Tucker Dr, & Walmart Way Entrances	4	4.4%
L - KY 9 at KY 1448 - Maple Leaf Rd	4	4.4%
M - KY 9 at KY 11	2	2.2%
N - KY 9 at Knoweshaw Rd	3	3.3%
O - KY 9 at Clarkson Sherman Rd	4	4.4%
P - KY 9 at KY 1449 - Orangeburg Rd	3	3.3%
Q - KY 9 at Marathon/Vaughn Ln	2	2.2%
R - KY 9 at KY 1234	3	3.3%
S - KY 9 at Garrard Rd	2	2.2%
T - KY 9 at KY 57	3	3.3%
U - KY 9 at KY 59 / Fairlane Dr	4	4.4%
V - KY 10 at KY 1306 - Kinney Rd	5	5.49%

Answers	Count	Percentage
W - KY 10 at KY 7	4	4.4%
X - KY 10 at US 23	3	3.3%
Y - KY 9 at KY 7 (North - MP 6.498)	3	3.3%
Z - KY 9 at KY 7 (South - MP 5.486)	2	2.2%
AA - KY 9 at KY 1959	3	3.3%
AB - Speed Reduction on KY 9 between Downing Dr and KY 11	1	1.1%
AC - Truck Climbing Lanes	1	1.1%
AD - Address Pavement	2	2.2%
AE - KY 10 Intersection Signing	0	0%
AF - Carter Caves GPS Issue	1	1.1%
AG - Speed Enforcement	0	0%
AH - Geometric Deficiencies	1	1.1%
Other	3	3.3%

Responses to “Other”:

- Intersection of KY 9 AA Hwy and KY 2370 Dutch Ridge Road
- In those areas of the AA Hwy where hot tar sealing is being used: Repaint the roadway striping after the sealant is applied. The tar severely impacts the visibility of the roadway markers, especially when driving at night during a rain or snow in winter.
- AA Hwy At Lions Lane

Question 2-1: Please select a priority for this concept.

The following is a summary of the amount of times each category of priority was chosen.



Hide table Other response Empty categories Sort

Answers	Count	Percentage
Low	17	18.68%
Medium	22	24.18%
High	48	52.75%
Other Comment - Please explain below	0	0%

Answered: 87 Skipped: 4

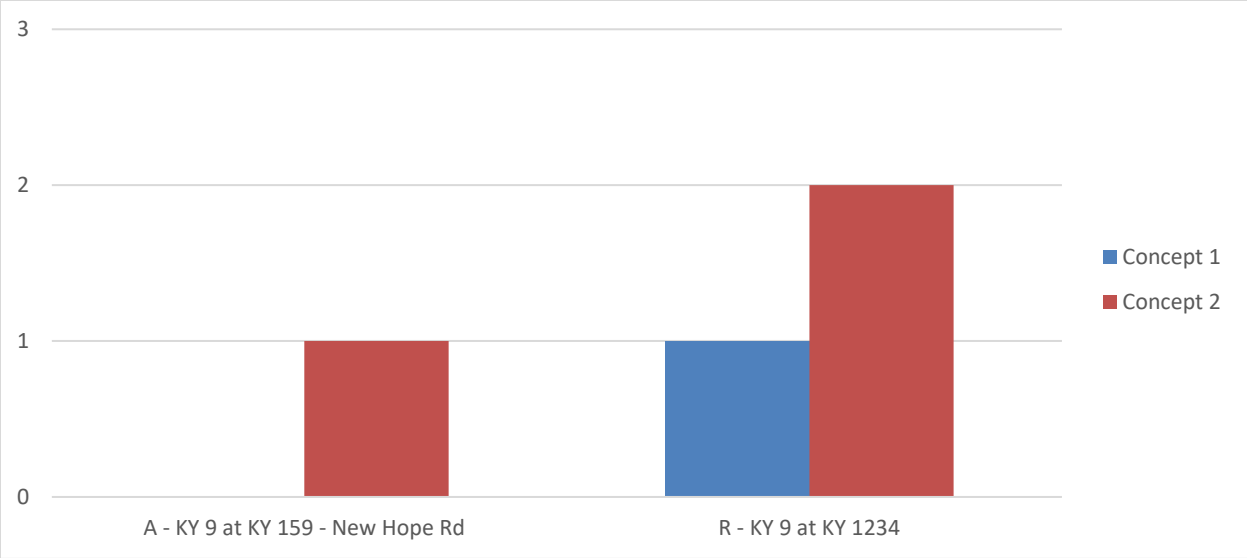
Question 2-1: Please select a priority for this concept. (Continued)

The following is a summary table showing the priorities selected for each Concept Improvement.

Location	Priority Responses						Total Count	% of Responses
	High		Medium		Low			
	Count	%	Count	%	Count	%		
A - KY 9 at KY 159 - New Hope Rd	1	100%	-	0%	-	0%	1	1.15%
B - KY 9 at Iler Rd	2	67%	1	33%	-	0%	3	3.45%
C - KY 9 at KY 1019 - Lenoxsburg Foster Rd	-	0%	-	0%	2	100%	2	2.30%
D - KY 9 at KY 1159	2	67%	1	33%	-	0%	3	3.45%
E - KY 9 at KY 875 - Mt. Zion Rd	-	0%	1	100%	-	0%	1	1.15%
F - KY 9 at KY 19 - Augusta Chatham Rd	1	100%	-	0%	-	0%	1	1.15%
G - KY 9 at KY 435	1	25%	2	50%	1	25%	4	4.60%
H - KY 9 at Downing Dr	2	50%	2	50%	-	0%	4	4.60%
I - KY 9 at Kenton Station Dr	4	100%	-	0%	-	0%	4	4.60%
J - KY 9 at US 62	5	100%	-	0%	-	0%	5	5.75%
K - KY 9 at Market Square Dr, Tucker Dr, & Walmart Way Entrances	2	50%	-	0%	2	50%	4	4.60%
L - KY 9 at KY 1448 - Maple Leaf Rd	2	50%	1	25%	1	25%	4	4.60%
M - KY 9 at KY 11	1	50%	1	50%	-	0%	2	2.30%
N - KY 9 at Knoweshaw Rd	1	33%	1	33%	1	33%	3	3.45%
O - KY 9 at Clarkson Sherman Rd	3	75%	-	0%	1	25%	4	4.60%
P - KY 9 at KY 1449 - Orangeburg Rd	1	33%	1	33%	1	33%	3	3.45%
Q - KY 9 at Marathon/Vaughn Ln	-	0%	1	50%	1	50%	2	2.30%
R - KY 9 at KY 1234	2	67%	-	0%	1	33%	3	3.45%
S - KY 9 at Garrard Rd	1	50%	1	50%	-	0%	2	2.30%
T - KY 9 at KY 57	2	67%	1	33%	-	0%	3	3.45%
U - KY 9 at KY 59 / Fairlane D	3	75%	-	0%	1	25%	4	4.60%
V - KY 10 at KY 1306 - Kinney Rd	2	40%	2	40%	1	20%	5	5.75%
W - KY 10 at KY 7	-	0%	3	100%	-	0%	3	3.45%
X - KY 10 at US 23	3	100%	-	0%	-	0%	3	3.45%
Y - KY 9 at KY 7 (North - MP 6.498)	2	67%	1	33%	-	0%	3	3.45%
Z - KY 9 at KY 7 (South - MP 5.486)	-	0%	1	50%	1	50%	2	2.30%
AA - KY 9 at KY 1959	1	33%	1	33%	1	33%	3	3.45%
AB - Speed Reduction on KY 9 between Downing Dr and KY 11	-	0%	-	0%	1	100%	1	1.15%
AC - Truck Climbing Lanes	-	0%	-	0%	1	100%	1	1.15%
AD - Address Pavement	2	100%	-	0%	-	0%	2	2.30%
AE - KY 10 Intersection Signing	-	-	-	-	-	-	0	0.00%
AF - Carter Caves GPS Issues	1	100%	-	0%	-	0%	1	1.15%
AG - Speed Enforcement	-	-	-	-	-	-	0	0.00%
AH - Geometric Deficiencies	1	100%	-	0%	-	0%	1	1.15%
Other	-		-		-		0	0.00%

Question 2 -2: Which concept do you prefer for this improvement concept?

This question pertained to Concept A – KY 9 at KY 159 (New Hope Rd) and Concept R – KY 9 at KY 1234. Both locations had two alternate concepts shown, and users had the opportunity to choose which one they preferred for each. For Concept R, the user who selected Concept 1 said it was a high priority, and the users who said Concept 2 were split between it being a high priority and low priority as seen below.



The following is a comment related to this question for Concept A:

- To me, Concept 1 doesn't make travel safer for westbound travel needing to turn south onto New Hope Road (looks as though it is inviting a rear-end collision to someone turning south when a westbound driver wants to speed up so as to get around a semi-truck and who may be temporarily distracted looking in rear view mirror and thus doesn't notice the person in front of him has a turn signal on). Concept 2 is not only a much more economical fix, but to me appears safer as travelers intending to turn south have dedicated turn lane.

A summary table of all survey submissions are included as an attachment to this summary.

Concept Improvement ID	Other - Which concept do you want to choose a priority for?	Priority	Which concept do you prefer for this improvement concept?	Why did you choose this priority?	If you have any other comments or concerns, please enter them below:
A - KY 9 at KY 159 - New Hope Rd	-	High	Concept 2	To me, Concept 1 doesn't make travel safer for westbound travel needing to turn south onto New Hope Road (looks as though it is inviting a rear-end collision to someone turning south when a westbound driver wants to speed up so as to get around a semi-truck and who may be temporarily distracted looking in rear view mirror and thus doesn't notice the person in front of him has a turn signal on). Concept # 2 is not only a much more economical fix, but to me appears safer as travelers intending to turn south have dedicated turn lane.	-
B - KY 9 at Iler Rd	-	High	-	Personally, I am surprised that traffic counts indicated this a necessity and as there is only one concept to consider and I cannot argue with it, I made it a high priority based upon traffic counts and public official input.	-
B - KY 9 at Iler Rd	-	Medium	-	-	-
B - KY 9 at Iler Rd	-	High	-	St. Rt. #2228 is going to be shut down and Bracken County needs to transfer the maintenance of Iler Road to KDOT and the B.C. Fiscal Court take over #2228.	We honestly would like to see turn lanes at all of our major intersections, primarily Iler Rd., #1019, #1159 eastbound, #875/Mt. Zion Road, and improving #19.
C - KY 9 at KY 1019 - Lenoxsburg Foster Rd	-	Low	-	You have turning lanes already in place. Although I noted the injury reports, I don't think changing the signage will make people pay attention. And you are talking over half a million dollars. There are lots of things that cannot be fixed: Driver attention spans being one. Animals darting across the road another.	-
C - KY 9 at KY 1019 - Lenoxsburg Foster Rd	-	Low	-	-	-
D - KY 9 at KY 1159	-	High	-	Very low cost associated with improving this intersection. I am actually quite surprised that drains can be added for such a low cost. Therefore I marked this as a high priority, gaining significant improvement at limited cost investment.	-
D - KY 9 at KY 1159	-	High	-	crashes, cost	-
D - KY 9 at KY 1159	-	Medium	-	-	-
E - KY 9 at KY 875 - Mt. Zion Rd	-	Medium	-	The turning lanes on the AA Hwy to the Mt. Zion Road would be an improvement. I just don't know that the turning lanes from Mt. Zion are warranted. I would like to know the difference in cost between just adding turning lanes on AA versus the additional improvement of turning lanes on Mt. Zion Road and KKY 875. I know that Kern's Meats is on the south side on Mt. Zion Road and is probably a significant traffic generator. Is there any need to have them on the north side of AA Hwy on KY 875?	See above.
F - KY 9 at KY 19 - Augusta Chatham Rd	-	High	-	I can see the need for this improvement. This is a busy intersection.	-
G - KY 9 at KY 435	-	Medium	-	I marked this a medium as the expansion of this to a 4 lane takes care of most of the problems. I understand that drainage may be improved and it will require additional surveying to determine how to rectify the wet road scenario reported.	-
G - KY 9 at KY 435	-	High	-	crashes, cost	-
G - KY 9 at KY 435	-	Medium	-	-	-
G - KY 9 at KY 435	-	Low	-	Turn lanes were recently added here. Need crash data since then to re-evaluate.	-
H - KY 9 at Downing Dr	-	High	-	Low cost improvement. No argument. Thus high priority rating.	-
H - KY 9 at Downing Dr	-	High	-	crashes, cost	-
H - KY 9 at Downing Dr	-	Medium	-	-	-
H - KY 9 at Downing Dr	-	Medium	-	There was supposed to be another ramp at this interchange, but it wasn’t built due to design considerations. Although it would cost more, the fourth ramp would make all turning movements right turns.	-
I - KY 9 at Kenton Station Dr	-	High	-	The need for a turning lane in the westbound lane is obvious and warranted. Significant traffic turning into the Hospital, Doctors Office, Pharmacy, Fire Dept. and other medical facilities (not to mention helipad and ambulances in and out) make this a high priority intersection.	-
I - KY 9 at Kenton Station Dr	-	High	-	2 foot shoulder, injury and fatal crashes	-

Concept Improvement ID	Other - Which concept do you want to choose a priority for?	Priority	Which concept do you prefer for this improvement concept?	Why did you choose this priority?	If you have any other comments or concerns, please enter them below:
I - KY 9 at Kenton Station Dr	-	High	-	-	-
I - KY 9 at Kenton Station Dr	-	High	-	This is much needed and is a pretty easy solution.	-
J - KY 9 at US 62	-	High	-	Another high traffic intersection with significant traffic from all four directions. I can't argue with the need for improvement. It is expensive but there was only concept provided. Significant traffic resulting in significant accidents.	-
J - KY 9 at US 62	-	High	-	high crash rate	-
J - KY 9 at US 62	-	High	-	crashes, cost	-
J - KY 9 at US 62	-	High	-	-	-
J - KY 9 at US 62	-	High	-	The delay is really bad at peak times.	Be careful with the reduced lane widths and adding the right turn lanes. This can create “doglegs” and cause side swipe collisions. We have looked at this scenario several times, but ultimately decided it was safer, although more expensive, to buy R/W for the right turn lanes.
K - KY 9 at Market Square Dr, Tucker Dr, & Walmart Way Entrances	-	High	-	Obviously a high traffic area.	Would a landscape area be the most beneficial fix? Could another lane be added in it's place specifically for those traveling through not intending to turn? Just thinking outside the box.
K - KY 9 at Market Square Dr, Tucker Dr, & Walmart Way Entrances	-	High	-	Over the next 12 months, we'll have significant changes to the retail makeup of this corridor increasing traffic.	-
K - KY 9 at Market Square Dr, Tucker Dr, & Walmart Way Entrances	-	Low	-	-	-
K - KY 9 at Market Square Dr, Tucker Dr, & Walmart Way Entrances	-	Low	-	Taxpayers should not foot the fill for developers.	-
L - KY 9 at KY 1448 - Maple Leaf Rd	-	High	-	I marked this as a high priority only because it should improve traffic at minimal cost. I don't know that it is really warranted, but for the limited cost, if it improves traffic and cuts down on accidents, I would recommend.	-
L - KY 9 at KY 1448 - Maple Leaf Rd	-	High	-	We are expecting significant development at this intersection over the next 18months. The 43 acres on the southern side will be sold to a big box retail anchor.	-
L - KY 9 at KY 1448 - Maple Leaf Rd	-	Medium	-	-	-
L - KY 9 at KY 1448 - Maple Leaf Rd	-	Low	-	This intersections was recently reconstructed. Data needs to be evaluated since the change.	-
M - KY 9 at KY 11	-	High	-	I use this intersection all the time. It has needed a turning lane to go from KY 9 to KY 11 towards downtown since it's inception (I am turning right using the shoulder while waiting behind a westbound semi several times a week).	-
M - KY 9 at KY 11	-	Medium	-	The turn lanes may help a little, but the major problem here is the grade of the intersection. However, that is an expensive problem to fix.	-
N - KY 9 at Knoweshaw Rd	-	Medium	-	I doubt that this intersection would warrant a nearly $500K improvement ALTHOUGH I admit that I have witnessed several near misses where someone wasn't paying attention and come up too fast on a person turning ahead of them.	-
N - KY 9 at Knoweshaw Rd	-	High	-	Again, strictly due to the high incident count here in Mason County.	-
N - KY 9 at Knoweshaw Rd	-	Low	-	Right turn lane could help a little, but it also reduces sight distance for drivers on the side street.	-

Concept Improvement ID	Other - Which concept do you want to choose a priority for?	Priority	Which concept do you prefer for this improvement concept?	Why did you choose this priority?	If you have any other comments or concerns, please enter them below:
O - KY 9 at Clarkson Sherman Rd	-	High	-	This is an intersection that definitely needs improvement and would warrant the cost. Significant traffic into the Landfill requires the necessity of turning lanes both eastbound and westbound AA travel. Not to mention that sometimes the persons turning to go into the landfill are "wide loads" not so marked (where someone it taking a trailer load of tree limbs or landscaping to be disposed of, or a farm is taking a load of old fencing and other materials from his farm to be disposed of).	-
O - KY 9 at Clarkson Sherman Rd	-	High	-	-	-
O - KY 9 at Clarkson Sherman Rd	-	High	-	We have had several incidents here in Mason County with traffic entering and leaving the landfill.	-
O - KY 9 at Clarkson Sherman Rd	-	Low	-	The turn lanes could help, but right turn lanes also reduce sight distance for drivers on the side street.	-
P - KY 9 at KY 1449 - Orangeburg Rd	-	Medium	-	I go through this intersection often. Turning lanes already exist in eastbound and westbound lanes. I never have a problem turning right. Therefore I only marked this as a medium priority as the cost is nearly half a million dollars and I just don't see it as necessary.	Just improving the paint striping on the AA Hwy after you use the hot tar sealant would be a more benefit.
P - KY 9 at KY 1449 - Orangeburg Rd	-	High	-	injury and fatal crashes	-
P - KY 9 at KY 1449 - Orangeburg Rd	-	Low	-	The right turn lanes could help, but they also reduce sight distance for the drivers on the side streets.	-
Q - KY 9 at Marathon/Vaughn Ln	-	Medium	-	I do understand the need for a left turning lane for eastbound travel. I have witnessed several near misses in this area.	-
Q - KY 9 at Marathon/Vaughn Ln	-	Low	-	The turn lane could help, but we would be using taxpayer dollars to help a private development.	-
R - KY 9 at KY 1234	-	High	Concept 2	I personally am familiar with this intersection. You have a two lane westbound travel crossing KY 1237 suddenly narrowing to a single lane at the same location as a left hand turn onto KY 1234. While there probably is not an extremely heavy traffic pattern turning onto KY 1234, when someone needs to turn left onto KY 1234 (traveling west on AA), they are sitting ducks as traffic comes up behind them and they are waiting to turn with no place to go and no turning lane. I have witnessed MANY near misses at this location where the person traveling west behind a person turning onto KY 1234 takes the shoulder to avoid a collision. I hate the expense involved in improving the intersection, but it is warranted and needed.	-
R - KY 9 at KY 1234	-	High	Concept 1	safety and cost	-
R - KY 9 at KY 1234	-	Low	Concept 2	Doesn’t seem to be a high crash rate here.	-
S - KY 9 at Garrard Rd	-	High	-	A high return improvement for not much cost!	I have personally witnessed eastbound traffic turning onto Garrad Road (usually in a line of 3 to 5 cars); someone back "in the pack" decides that, as it is a straight stretch and currently a passing zone, to pass, only to come upon the left turning driver ahead of him and have to put on his brakes to avoid a high speed collision that would be broadside into the north turning car turning onto Garrad Road. I think there has been at least one fatality here by just such an instance. Simply making this a no passing zone would make this much safer.
S - KY 9 at Garrard Rd	-	Medium	-	Looks like an easy fix eliminating the passing zone. However, I would move the stop bars on the side streets as close as possible to the intersection for sight distance.	-

Concept Improvement ID	Other - Which concept do you want to choose a priority for?	Priority	Which concept do you prefer for this improvement concept?	Why did you choose this priority?	If you have any other comments or concerns, please enter them below:
T - KY 9 at KY 57	-	High	-	Another intersection that I am intimately familiar with. Improvements made a few years ago (after several accidents, some of which had fatalities) that off-set the turning lanes to improve visibility has been a great improvement and is the cause of why more extensive improvements are not needed at this time. Spending $25,000 as proposed on this intersection should be sufficient for many years to come.	-
T - KY 9 at KY 57	-	High	-	-	-
T - KY 9 at KY 57	-	Medium	-	We've worked on this intersection for years. The flashing yellow arrow might help reduce angle crashes. The red light running is hard to fix on the engineering side. I believe drivers know the intersection is there, they just don't care.	-
U - KY 9 at KY 59 / Fairlane D	-	High	-	Low cost improvement, thus I marked it a high priority.	-
U - KY 9 at KY 59 / Fairlane D	-	High	-	This intersections needs to be improved due to the number of crashes and the cost for implementation is only $35K	-
U - KY 9 at KY 59 / Fairlane D	-	High	-	-	-
U - KY 9 at KY 59 / Fairlane D	-	Low	-	Sight distance is good at this intersection. Crashes seem to be caused by driver in-attention or taking risks. Intersection warning devices are generally for location with poor sight distance.	-
V - KY 10 at KY 1306 - Kinney Rd	-	Medium	-	I like the idea for turning lanes at this intersection provided that traffic counts warrant it. I personally have never noticed a problem at this intersection although I have use it several times a year and drive by it additional times.	-
V - KY 10 at KY 1306 - Kinney Rd	-	Medium	-	I like the idea for turning lanes at this intersection even though it is at significant cost due to the injuries and fatality indicated even though I personally have never noticed a problem at this intersection although I have use it several times a year and drive by it additional times.	-
V - KY 10 at KY 1306 - Kinney Rd	-	High	-	injury and fatal crashes	-
V - KY 10 at KY 1306 - Kinney Rd	-	Low	-	-	-
V - KY 10 at KY 1306 - Kinney Rd	-	High	-	The suggested improvement could help.	-
W - KY 10 at KY 7	-	Medium	-	While the cost was not prohibitive, there are already overhead lights and all the crashes were caused by persons coming off KY 7. There are going to be some things that just can't be fixed. Throwing money at all problems doesn't always result in an improvement and in this case I think it somewhat overkill.	-
W - KY 10 at KY 7	-	Medium	-	-	-
W - KY 10 at KY 7	-	-	-	-	-
W - KY 10 at KY 7	-	Medium	-	Suggested improvements could help.	-
X - KY 10 at US 23	-	High	-	A busy intersection that can be improved for $30,000 equals a high priority. Numerous crashes reported at this site, high traffic area, so in my opinion the cost is warranted.	-
X - KY 10 at US 23	-	High	-	-	-
X - KY 10 at US 23	-	High	-	Suggested improvements could help. Biggest problem seems to be driver in-attention.	-
Y - KY 9 at KY 7 (North - MP 6.498)	-	High	-	safety, cost	-
Y - KY 9 at KY 7 (North - MP 6.498)	-	High	-	Traffic safety for school buses.	-
Y - KY 9 at KY 7 (North - MP 6.498)	-	Medium	-	-	-
Z - KY 9 at KY 7 (South - MP 5.486)	-	Low	-	-	-
Z - KY 9 at KY 7 (South - MP 5.486)	-	Medium	-	-	-

Concept Improvement ID	Other - Which concept do you want to choose a priority for?	Priority	Which concept do you prefer for this improvement concept?	Why did you choose this priority?	If you have any other comments or concerns, please enter them below:
AA - KY 9 at KY 1959	-	Medium	-	Only 1 crash reported. HOWEVER spending $10,000 is a cost that could have made there 0 crash reports. Thus I gave what would otherwise be a low priority a medium priority rating.	-
AA - KY 9 at KY 1959	-	High	-	-	-
AA - KY 9 at KY 1959	-	Low	-	-	-
AB - Speed Reduction on KY 9 between Downing Dr and KY 11	-	Low	-	People tend to drive well above the speed limit on this section of highway and personally I am against lowering the speed limit. This is a straight stretch, great visibility, and will only result in a speed trap.	I have personally witnessed persons driving this section probably at lest 75 miles an hour. I know that I have driven it above the posted speed limit (but not in excess of 70 mph like that which I have witnessed). I am not in favor of a 45 mph speed limit on this section of roadway.
AC - Truck Climbing Lanes	-	Low	-	-	-
AD - Address Pavement	-	High	-	I applaud the efforts to extend the life of blacktop by placing hot tar sealant. HOWEVER the roadways definitely do need to be repainted with regards to striping after the hot tar sealant has been placed as - especially during winter months when the roadways are wet during early evening or early morning when the sun is not out - visibility is already limited and to see the centerline and sidelines of the roadway requires additional concentration. This is as most of the breakdown is in the places where the striping is, Ie: the centerline and where lanes meet during the blacktopping installation.	-
AD - Address Pavement	-	High	-	I applaud the efforts to extend the life of blacktop by placing hot tar sealant. HOWEVER the roadways definitely do need to be repainted with regards to striping after the hot tar sealant has been placed as - especially during winter months when the roadways are wet during early evening or early morning when the sun is not out - visibility is already limited and to see the centerline and sidelines of the roadway requires additional concentration. This is as most of the breakdown is in the places where the striping is, Ie: the centerline and where lanes meet during the blacktopping installation.	-
AF - Carter Caves GPS Issues	-	High	-	Safety of our guest coming to the park. The current route they are taking them on is taking them through a creek and many of our campers have been getting stuck.	-
AH - Geometric Deficiencies	-	High	-	fatal crash site	-
Other	Intersection of KY 9 AA Hwy and KY 2370 Dutch Ridge Road.	-	-	-	I am surprised that no one commented on this intersection when there was so much concern with Iler Road and New Hope Road (and to some extent Mt. Zion/KY 875). Just surprised. If no one in Bracken Co. thinks it should be considered, then so be it. I drive it a little, not a lot,, but it is my preferred method of travel to Augusta (much rather take it than KY 19).
Other	In those areas of the AA Hwy where hot tar sealing is being used: Repaint the roadway striping after the sealant is applied. The tar severely impacts the visibility of the roadway markers, especially when driving at night during a rain or snow in winter.	-	-	-	-
Other	AA Hwy At Lions Lane	-	-	-	It was brought up during the meeting the need for improving this intersection at the School AND soon to be the site of a medical facility (confirmed to me today by an engineer who did not ask me to keep it confidential but who probably should have).

AA Highway Improvements Study

Pendleton, Bracken, Mason, Lewis, Greenup, and Carter Counties

Local Officials / Stakeholders Meeting No. 2

Tuesday, July 14, 2020 &
Thursday, July 16, 2020



AA Highway Improvements Study - LO/S Meeting No. 2

HMB - Delivering Quality Solutions

Study Review

Objectives

Identify and evaluate potential improvement concepts to improve overall safety and operational performance of the AA Highway including KY 9 from the Campbell / Pendleton County line to Grayson (KY 1) and KY 10 from Vanceburg to US 23 in Greenup County (total of approximately 120 miles).

Goals

- Identify Project Locations
- Develop / Evaluate Improvement Concepts
- Prepare Prioritized List of Improvement Concepts

Schedule

Schedule

August 2019	Study Initialized
Sept. – Dec. 2019	Scoping / Data Gathering / Existing Conditions Analysis
January 2020	Project Team Meeting No. 1 / Initial Traffic Forecasting
February 2020	LO/S Meeting No. 1 / Develop Improvement Concepts
March 2020	Project Team Meeting No. 2 / Evaluate Improvement Concepts
April - June 2020	Refine Improvement Concepts
July 2020	LO/S Meeting No. 2 / Develop Recommendations
August 2020	Project Team Meeting No. 3
September 2020	Prepare Draft Report
October 2020	Address Comments / Finalize Report



AA Highway Improvements Study - LO/S Meeting No. 2

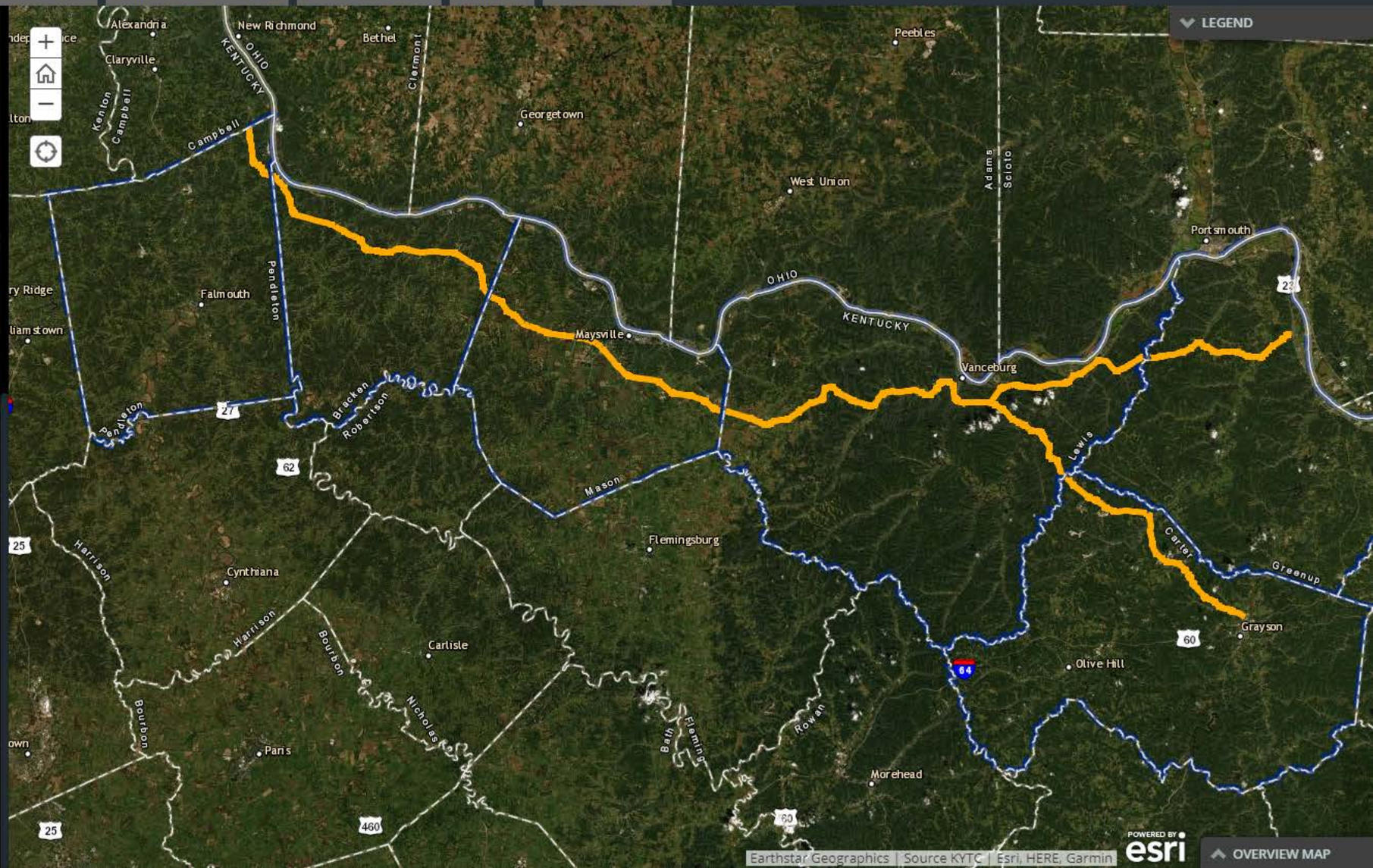
April - June 2020	Refine Improvement Concepts
July 2020	LO/S Meeting No. 2 / Develop Recommendations
August 2020	Project Team Meeting No. 3
September 2020	Prepare Draft Report
October 2020	Address Comments / Finalize Report

Tasks

Study Background

Study Tasks

- ✓Compile Existing Conditions Information
- ✓Prepare Traffic Forecasts (Year 2045)
- ✓Perform Environmental Overview
- ✓Develop Improvement Concepts
- ✓Refine Improvement Concepts
- •Prioritize Recommended Improvements



LO/S Meeting No. 1 Review

First LO/S Meeting No. 1

LO/S Meeting Statistics

February 17, 2020

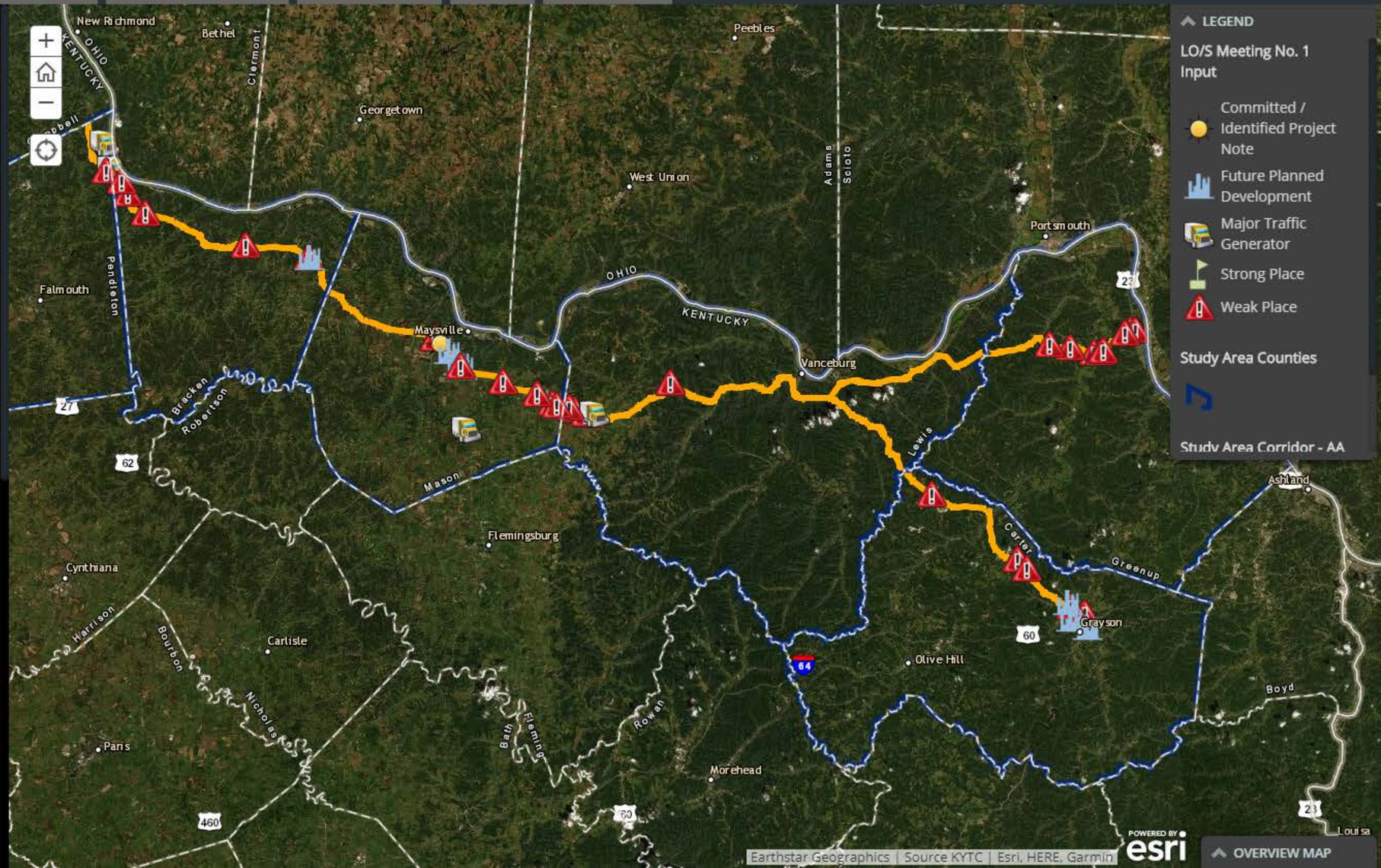
- 31 Attendees
- 11 Local Officials / Stakeholders
  - City of Olive Hill
  - City of Grayson
  - Carter Co. Schools
  - Greenup County Public Safety & 911
  - Carter Caves State Park
  - Carter County Judge Executive
  - City of Grayson
  - Elliot Co. Emergency Response
- 26 on Invitee List

Second LO/S Meeting No. 1

LO/S Meeting Statistics

February 18, 2020

- 34 Attendees
- 20 Local Officials / Stakeholders
  - IDA
  - Lewis, Mason, Bracken Officials
  - Mason and Pendleton Co. Emergency Response
  - City of Maysville
  - Bracken and Mason Co. Fiscal Court
  - Bracken and Pendleton Co. Schools



AA Highway Improvements Study - LO/S Meeting No. 2

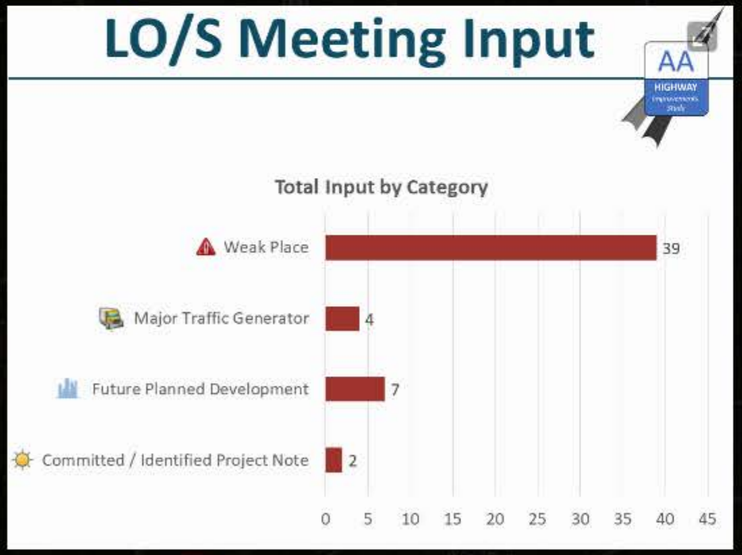
HMB - Delivering Quality Solutions

- 20 Local Officials / Stakeholders
  - IDA
  - Lewis, Mason, Bracken Officials
  - Mason and Pendleton Co. Emergency Response
  - City of Maysville
  - Bracken and Mason Co. Fiscal Court
  - Bracken and Pendleton Co. Schools
  - NKY Chamber of Commerce
  - Hospice of Hope
- 27 on Invitee List

Interactive Input Tool Results

52 Total Responses

LO/S Meeting Input



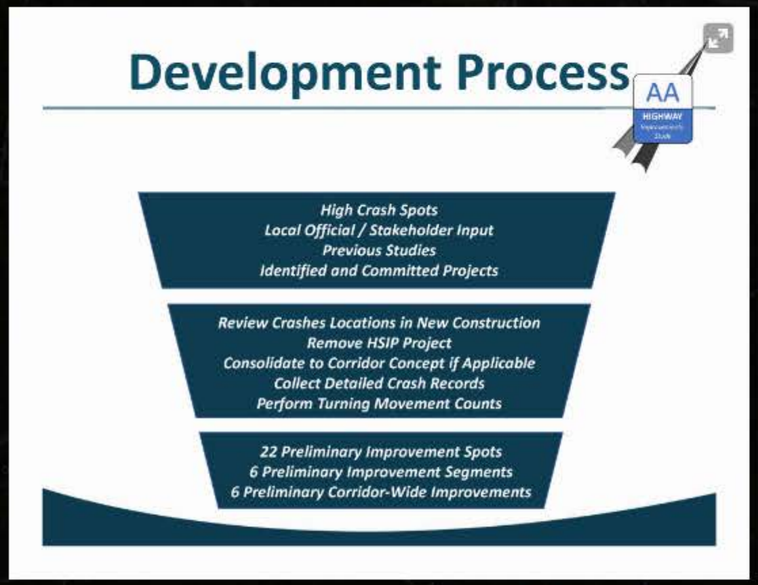
Note: No Strong Place category input was identified by the LO/S.



AA Highway Improvements Study - LO/S Meeting No. 2

HMB - Delivering Quality Solutions

Concept Development Process



Locations Not Further Studied

- Additional locations were evaluated and dismissed for further consideration of improvements after exploring crashes in more detail, analyzing traffic data, evaluating future plans, and other considerations.
- Link to Table

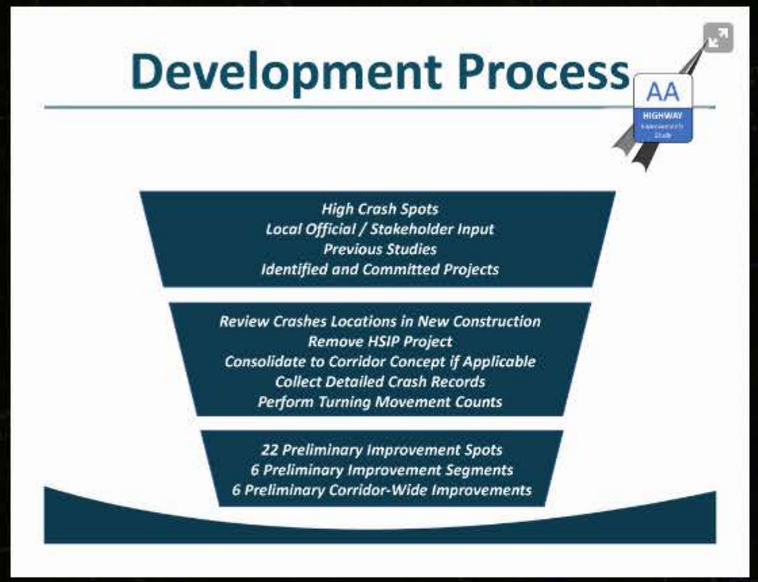
LEGEND

- Dismissed Locations - Spots
- Dismissed Locations - Segments
- LO/S Meeting No. 1 Input
- Committed / Identified Project Note
- Future Planned Development
- Major Traffic

Earthstar Geographics | Source KYTC | Esri, HERE, Garmin

OVERVIEW MAP

Concept Development Process



Locations Not Further Studied

- Additional locations were evaluated and dismissed for further consideration of improvements after exploring crashes in more detail, analyzing traffic data, evaluating future plans, and other considerations.
- Link to Table

BACK

LEGEND

- Dismissed Locations - Spots
- Dismissed Locations - Segments
- Study Area Counties
- Study Area Corridor - AA Highway

Earthstar Geographics | Source KYTC | Esri, HERE, Garmin

OVERVIEW MAP

AA Highway Improvements Study - LO/S Meeting No. 2

HMB - Delivering Quality Solutions

Improvement Concepts

34 Total Improvement Concept Locations - *Click Here for Link to All Concept Sheets*

- 22 Spots
- 6 Segments

AB



- 6 Corridor-Wide

AC



AD



AE



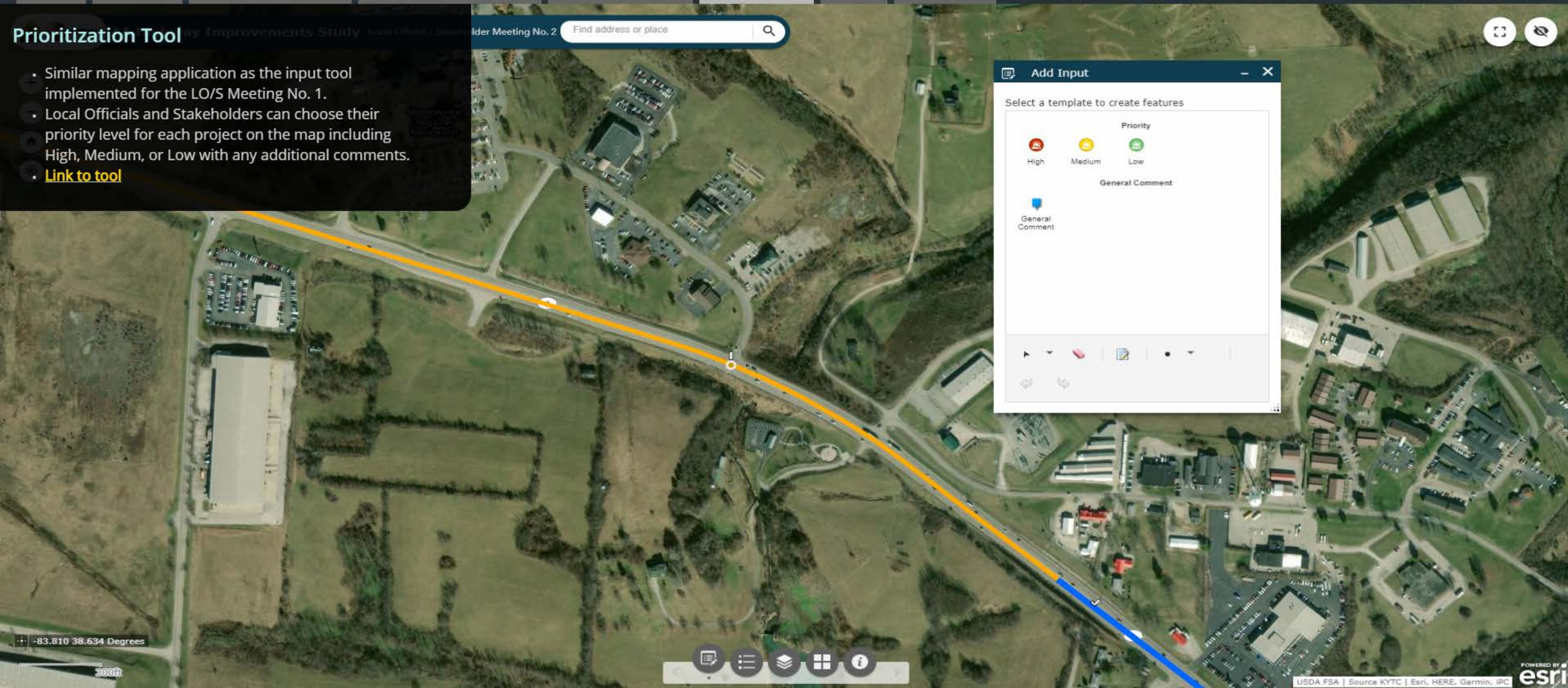


AA Highway Improvements Study - LO/S Meeting No. 2

HMB - Delivering Quality Solutions

Prioritization Tool

- Similar mapping application as the input tool implemented for the LO/S Meeting No. 1.
- Local Officials and Stakeholders can choose their priority level for each project on the map including High, Medium, or Low with any additional comments.
- Link to tool



Wrap-Up

Next Steps

1. Collect LO/S Input through July 31, 2020
2. Perform Final Concept Adjustments
3. Finalize Prioritization List
4. Prepare Report

Questions? Comments?

Contacts

Dane Blackburn
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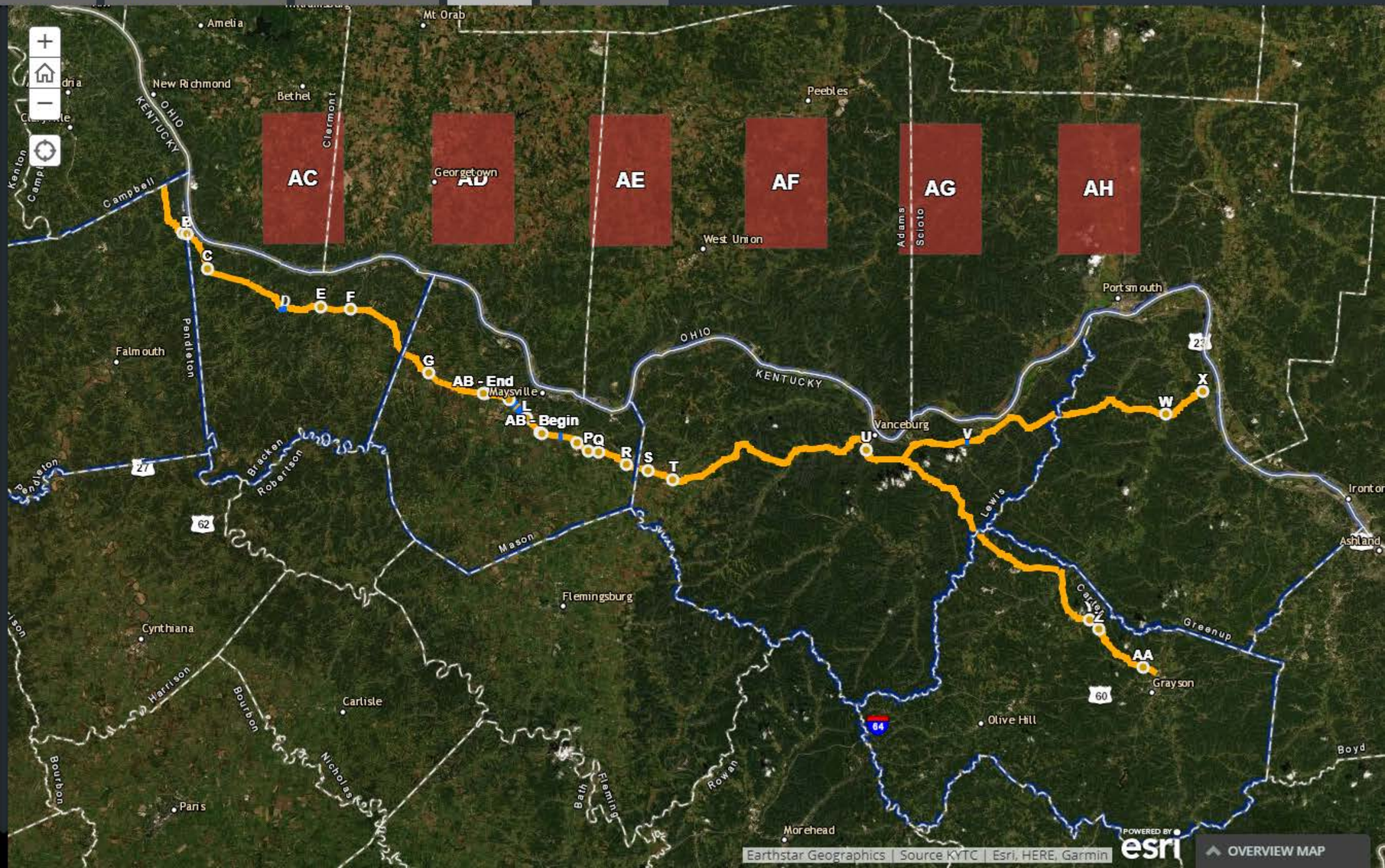
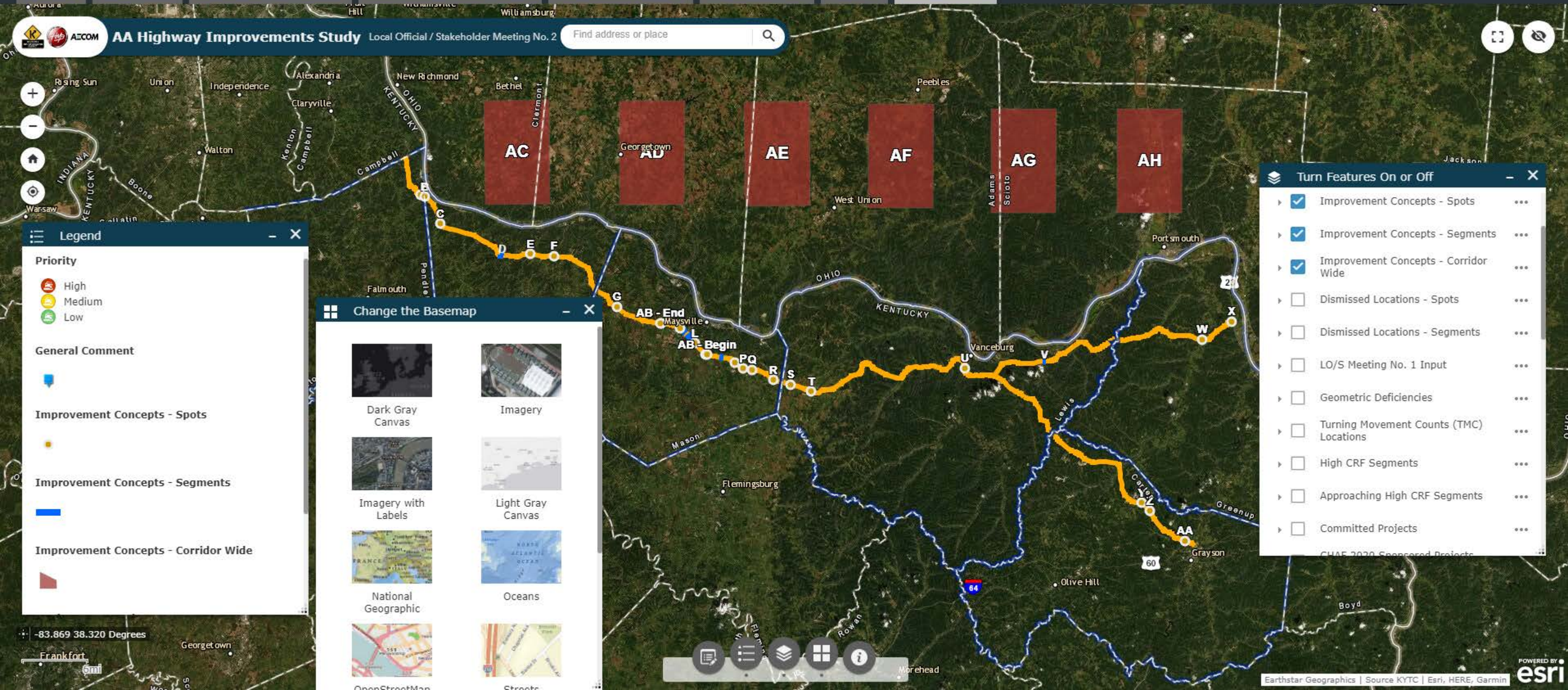
Dane.Blackburn@ky.gov

Matt Dillon
Michael Read
KYTC District 9 Project Managers
Matt.Dillon@ky.gov
Michael.Read@ky.gov



AA Highway Improvements Study - LO/S Meeting No. 2

HMB - Delivering Quality Solutions



David

Improvement Concept Priority Survey

Welcome

Thank you for participating in this study. Please enter priorities for the improvement concepts below. From the drop down menu, select the improvement concept you would like to add a priority (low, medium, high) and then enter in any additional comments about the concept or the priority. The map to the right can be used as a reference to identify locations for selection from the menu. If you would like to view more map features, please use the Interactive Map tab.

Which concept do you want to choose a priority for?

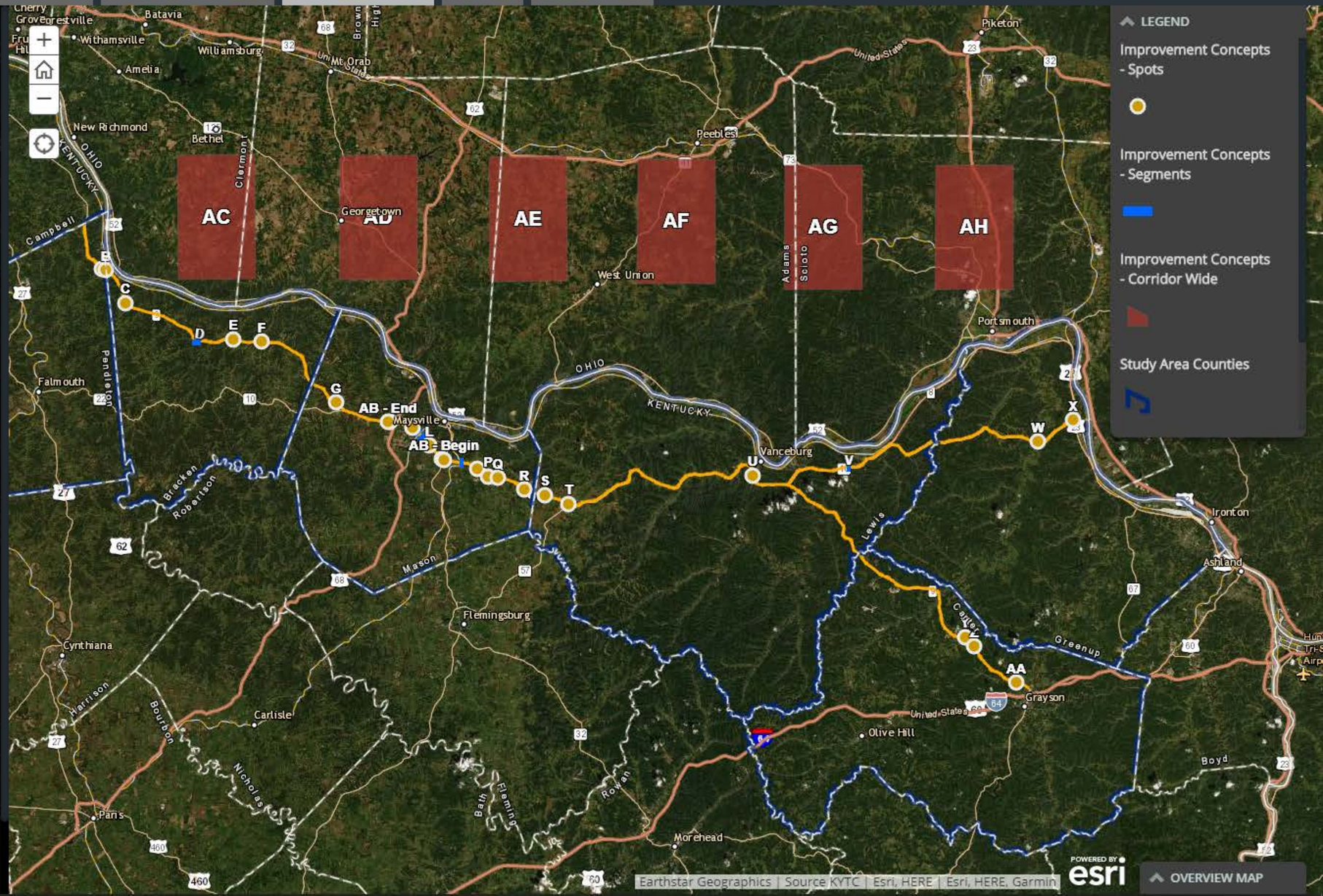
The concept sheet and a link to view the PDF will appear after making your selection.

A - KY 9 at KY 159 - New Hope Rd

Concept A - KY 9 at KY 159 - New Hope Rd

Link to PDF





AA Highway Improvements Study - LO/S Meeting No. 2

HMB - Delivering Quality Solutions

David

Which concept do you prefer for this improvement concept?

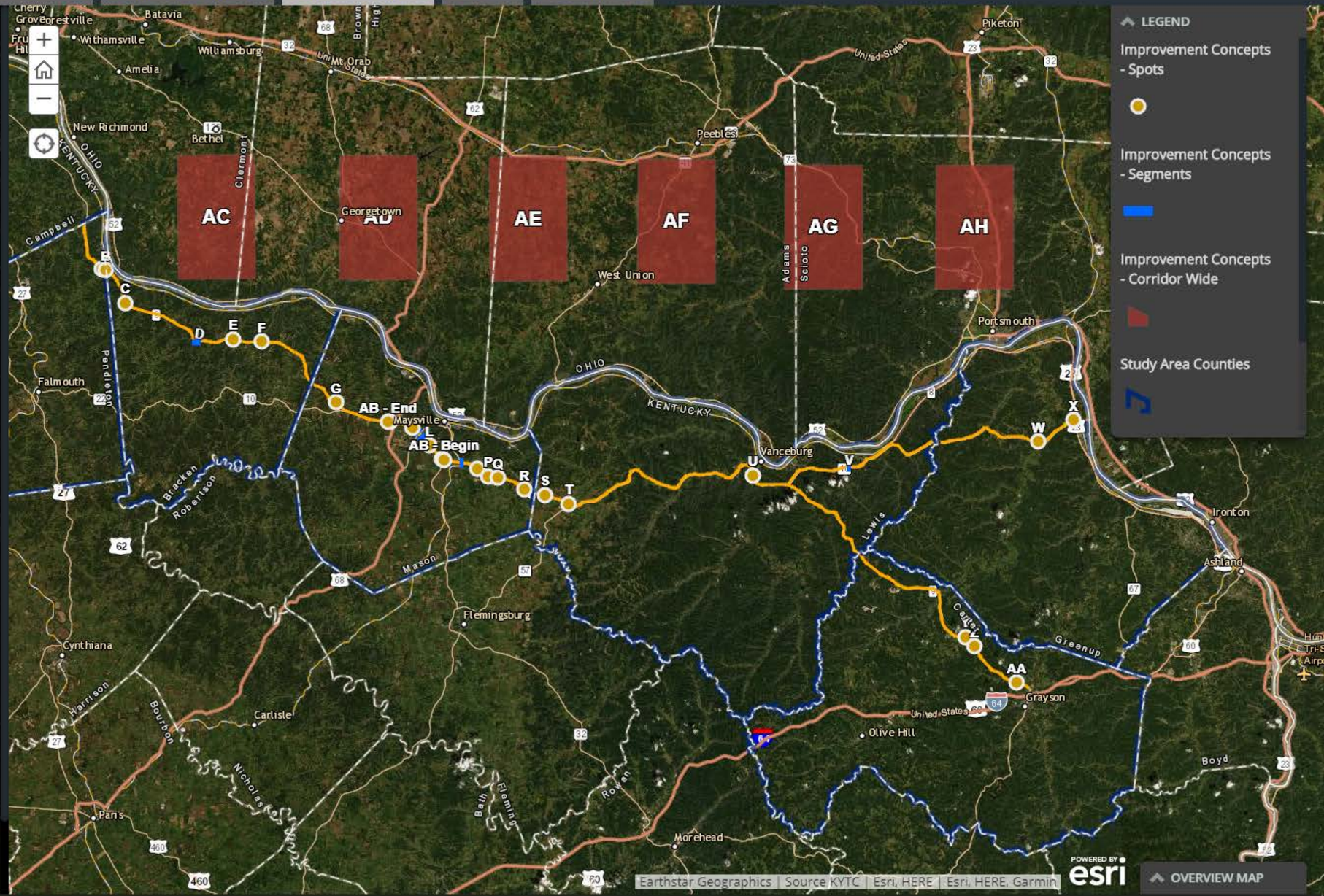
- ○ Concept 1
- ○ Concept 2
- ○ Other

Please select a priority for this concept

- ○ Low
- ○ Medium
- ○ High
- ○ Other Comment - Please explain below

If you have any other comments or concerns, please enter them below:

1000



AA Highway Improvements Study - LO/S Meeting No. 2

David

Other

Please select a priority for this concept

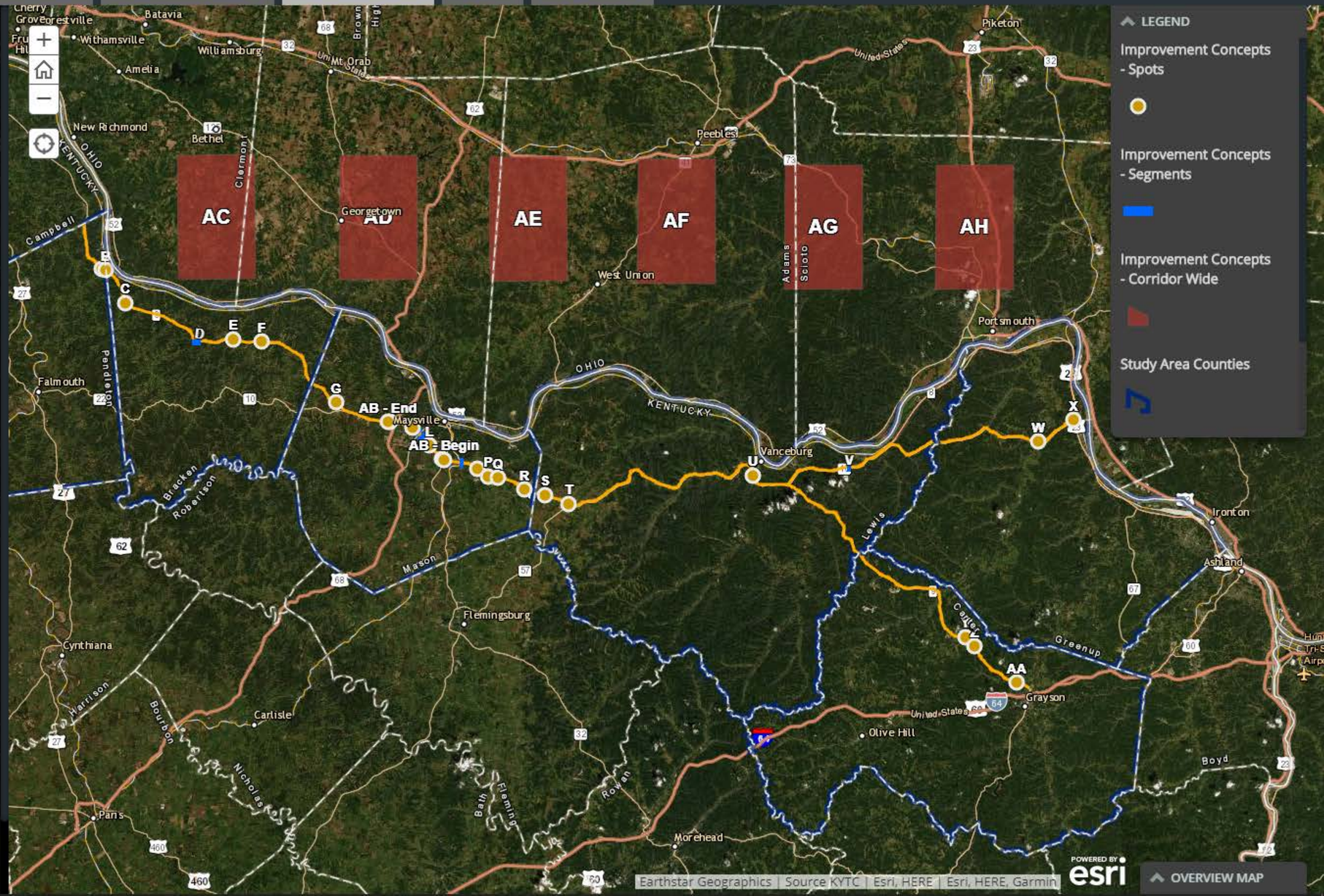
- Low
- Medium
- High
- Other Comment - Please explain below

If you have any other comments or concerns, please enter them below:

1000

To select another improvement concept to prioritize and provide feedback, please submit the survey and a link to start a new survey will appear. Thank you!

Submit



FINAL Meeting Minutes

Project: **AA Highway Improvements Study**

Subject: **Project Team Meeting No. 3**

Date: **Thursday, September 3, 2020, 10:30 AM (Eastern Time)**

Location: **Multiple Locations via Video Conference Call (Microsoft Teams)**

Attendees:

Stephen De Witte	KYTC Central Office, Planning
Beth Niemann	KYTC Central Office, Planning
Steve Ross	KTYC Central Office, Planning
Jay Balaji	KYTC Central Office, Planning
Matt Lawson	KYTC Central Office, Planning
Mike Bezold	KYTC District 6, TEBM for Project Development
Dane Blackburn	KYTC District 6, Planning Supervisor
Stacee Hans	KYTC District 6
Darrin Eldridge	KYTC District 9, TEBM for Project Development
Karen Mynhier	KYTC District 9, Environmental
Matt Dillon	KYTC District 9, Planning
Michael Read	KYTC District 9, Planning
Kevin Sandefur	KYTC Central Office District 6 Location Engineer
Randy Turner	KYTC Central Office District 9 Location Engineer
Adam Michels	KYTC Central Office, Environmental Analysis
Allen Blair	KYTC District 9 Public Information Officer
Blake Jones	KYTC District 9
Scott Shurman	KYTC Central Office, Environmental Analysis
Courtney Kleier	NKADD
Missy Hardy	BTADD
Vicki Green	FIVCO
Terri Sicking	KYOVA
Lindsay Walker	HMB
Jarrod Johnson	HMB
Brad Johnson	HMB
John Callihan	AECOM

Agenda / Handouts:

To facilitate the meeting, the following materials were provided prior to the meeting and are included as an attachment to these meeting minutes.

- Improvement Concept Sheets
- Presentation Slides

Meeting Comments / Summary:

Lindsay Walker of HMB began the meeting by sharing her screen with those viewing the video conference call. The discussion was facilitated by a PowerPoint presentation. The following are comments / discussion items for each agenda item.

I. Review of Study
- HMB presented a review of the study area, study objective and goals, outstanding and completed tasks, and schedule.
- Related to the Schedule, it was noted that the draft report may be delayed because of pending information for the KY 9 / Lions Lane Improvement Concept. The draft report will be prepared as determined in the schedule with the additional information related to this concept added when completed.

II. Local Official / Stakeholder (LO/S) Meeting No. 2 Review
- HMB presented the results of the data gathered from the LO/S Meeting No. 2 including attendance, participation, and online web app results.
- Related to the slide that presents the input for the concepts with multiple options (A and R) – Lindsay posed the question on whether to select a preferred concept or leave both as feasible options for the final report. District 6 noted that they would prefer for both to be presented and District 9 deferred to District 6 as most were in that District.

III. Additional Improvement Concept
- HMB presented an additional improvement concept at KY 9 and Lions Lane. This additional concept was developed in reaction to the expressed need for evaluation and improvements at this location during the second LO/S meeting.
- HMB participated in additional discussion with the Lewis County Schools Superintendent regarding the location and potential improvements. Initially, the addition of a turn lane to southbound Lions Lane was examined and put forth on the concept sheet with the concern noted that sight distance for turning vehicles would need to be further evaluated.
- Additional concepts will be evaluated that consider traffic flow / routing at the Lions Lane intersection as well as the Old KY 10 intersection to the west and the potential connection of Old KY 10 to the east.
- A large-scale medical facility is planned west of the Lions Lane intersection with access on Old KY 10. KYTC is requiring a traffic study be completed. District 9 provided the developer a list of pre-approved consultants that could perform the study along with HMB's contact information.

- The results of the traffic impact study will be used in conjunction with information from this study to assess the Lions Lane and adjacent intersection / potential intersection to determine the most optimal way to address operations and safety.
- Given the level of interest and current work at this location, KYTC noted it is reasonable to assume the priority of this location is high.

IV. Prioritization Discussion

- HMB presented a draft process and data for prioritizing the improvement concepts.
- KYTC Central Office noted that if the improvement can be addressed with FD04 funds, then it does not need to be prioritized. This procedure was applied to the Boyd-Greenup Small Urban Area (SUA) Study. Prioritization would need to take place for improvement concepts only that would need to be put into the SHIFT process / Highway Plan.
- Improvement concepts that focus on striping do not need to be prioritized. Typically, these are addressed as part of the next resurfacing program unless it is something that needs to be addressed immediately.
- The project team agreed that prioritization is not an exact science. HMB noted that through their experience and research, prioritization for area studies such as SUAs tends to rely heavily on local official / stakeholder / public input. KYTC agreed that for a study of this size and length, modifications to the prioritization process are necessary.
- KYTC Central Office suggested to potentially shift improvement concepts that are listed as “medium” or “low” to “high” if they have a critical rate factor (CRF) above one. The example that was noted was to move Improvement Concepts F and K from “medium” to “high”.
- HMB presented a chart that showed the study scoring of the improvement concepts with their 2020 SHIFT score if applicable. The SHIFT scores were not initially used as a scoring component for this study’s prioritization process. Looking at the distribution on the chart, it was noted by KYTC Central Office that Improvement Concept E could possibly move from “low” to “medium” as it has a SHIFT score and therefore previously a project of consideration. The same was noted for Improvement Concept O, moving from “medium” to “high”.
- District 6 noted they did not think prior SHIFT scores should be used as part of this prioritization process. District 9 was ambivalent about including them and noted that during the next SHIFT iteration / prioritization for the Highway Plan, the projects that are important at the time will be scored and boosted. Most likely the only improvement concept that received a boost

from the 2020 process was J – KY 9 at US 62. It was ultimately determined that previously scored projects in SHIFT would not be a prioritization factor for this study but would be noted following updates to the priority.

- KYTC Central Office Planning asked the question regarding if the prioritization process for this study places additional emphasis or "doubling" the effect of crashes by including the CRF and Benefit-Cost. The objective of this study has been to identify, evaluate and prioritize improvements that address safety and operational issues. The Benefit-Cost analysis is an important factor in helping determine the priority of a concept. KYTC Central Office will review the Benefit-Cost process and provide comments.
- HMB requested input as to whether the higher-level corridor-wide improvement concepts should be prioritized. They scored in the "low" priority in part due to not having data directly comparable to the spot locations. It was decided to put these improvement concepts in an "Other" category and leave them unprioritized.
- The end result of the prioritization discussion was five categories would be used: 1) Short-Term Priority; 2) High Priority; 3) Medium Priority; 4) Low Priority; 5) Other

V. Wrap-Up / Next Steps

- HMB ended the meeting by reviewing the next steps in the study process including concept improvement refinement for KY 9 at Lions Lane, updating the prioritization process from this discussion, and preparing the draft document. Updates to the improvement concept at KY 9 at Lions Lane may not be completed at the draft report stage depending on the timeline of the traffic impact study. As a result, the draft report can be submitted with a placeholder for the final concept sheet.

The meeting concluded at approximately 12:00 PM (Eastern Time).

List of Follow-Up / Action Items by Responsible Party:

A list of follow-up / action items from Project Team Meeting No. 2 include:

- HMB to send detailed calculation sheets for benefit-cost analysis to KYTC.
- KYTC will review methodology for benefit-cost analysis and provide comments to HMB.
- HMB will update the priority list of improvement concepts per the discussion into five categories.
- HMB will update the KY 9 at Lions Lane concept pending traffic impact study information.
- HMB will prepare the draft study document for KYTC review.

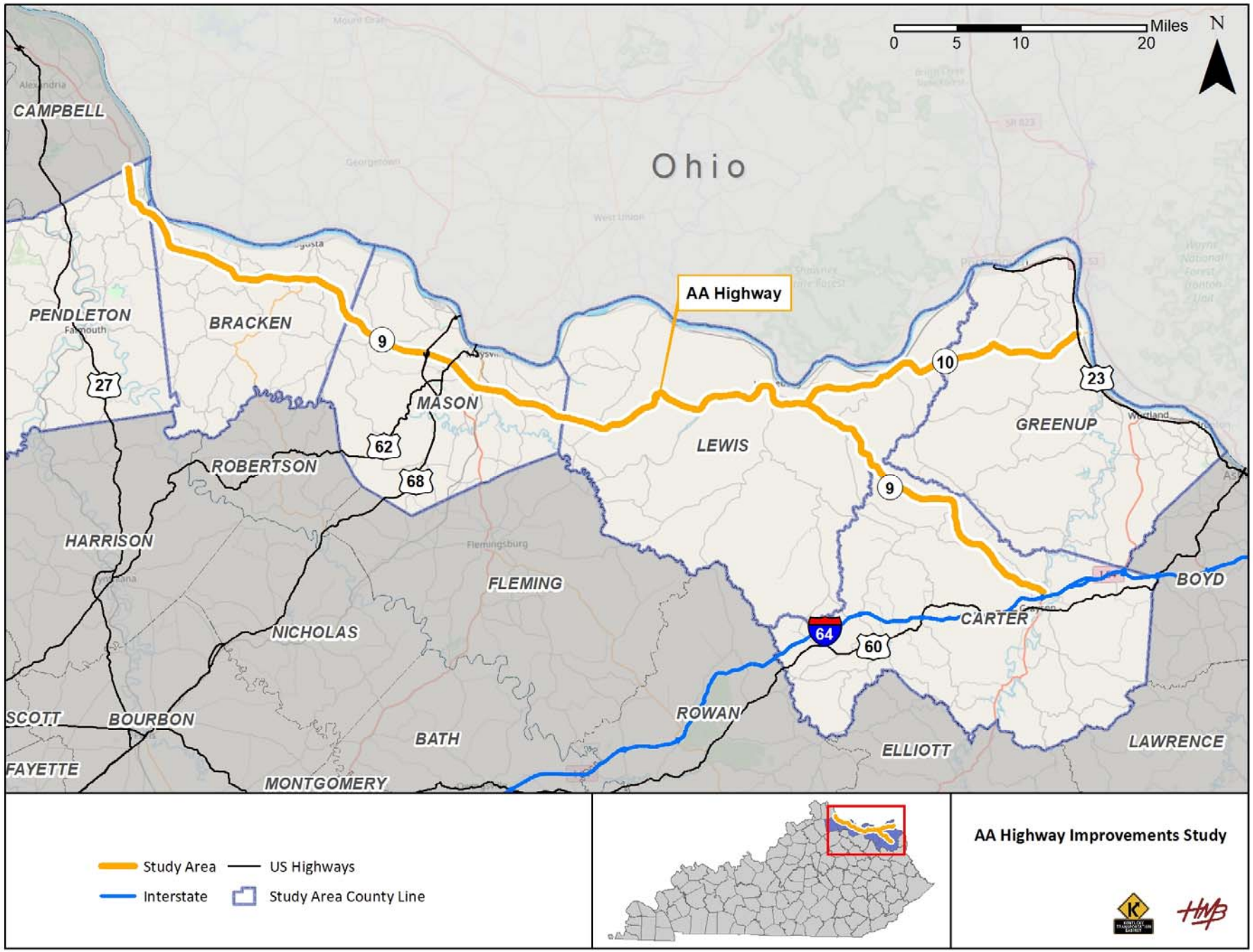
AA Highway Improvements Study

Bracken, Carter, Greenup, Lewis,
Mason, Pendleton Counties

Project Team Meeting No. 3
September 3, 2020, 10:30 AM ET

AGENDA

1. Review of Study
2. LO/S Meeting No. 2 Review
3. Additional Concept
4. Prioritization Discussion
5. Wrap-Up / Next Steps


Miles
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FLEMING
BOYD
CARTER
NICHOLAS
SCOTT
BOURBON
BATH
ROWAN
ELLIOTT
LAWRENCE
FAYETTE
MONTGOMERY
9
10
23
27
62
68
64
60
Study Area
US Highways
Interstate
Study Area County Line
AA Highway Improvements Study

Study Background

Study Objective

- Identify and evaluate potential improvement concepts to improve overall safety and operational performance of the AA Highway including KY 9 from the Campbell / Pendleton County line to Grayson (KY 1) and KY 10 from Vanceburg to US 23 in Greenup County (total of approximately 120 miles).

Study Background

Study Goals

- Identify Project Locations
- Develop / Evaluate Improvement Concepts
- Prepare Prioritized List of Improvement Concepts

Schedule

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September 2020	Project Team Meeting No. 3
October 2020	Prepare Draft Report
November 2020	Address Comments / Finalize Report

Study Background

Study Tasks

- ✓ Compile Existing Conditions Information
- ✓ Prepare Traffic Forecasts (Year 2045)
- ✓ Perform Environmental Overview
- ✓ Develop Improvement Concepts
- ✓ Refine Improvement Concepts
- Prioritize Recommended Improvements

Local Officials / Stakeholder Meeting No. 2 Review



LO/S Meeting Statistics



July 14, 2020

- 29 Attendees
- 6 Local Officials / Stakeholders
  - Mayor of Grayson
  - Mayor of South Shore
  - Mayor of Flatwoods
  - Representative 96th District
  - City of Grayson EM Director
  - Knott County Schools

LO/S Meeting Statistics

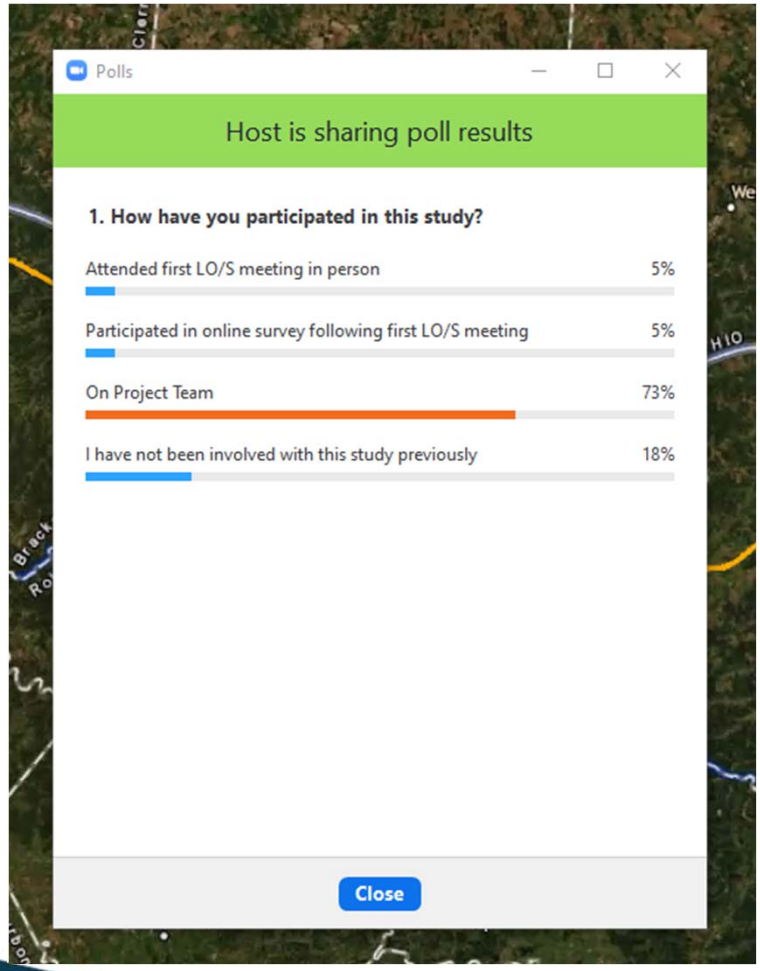
July 16, 2020

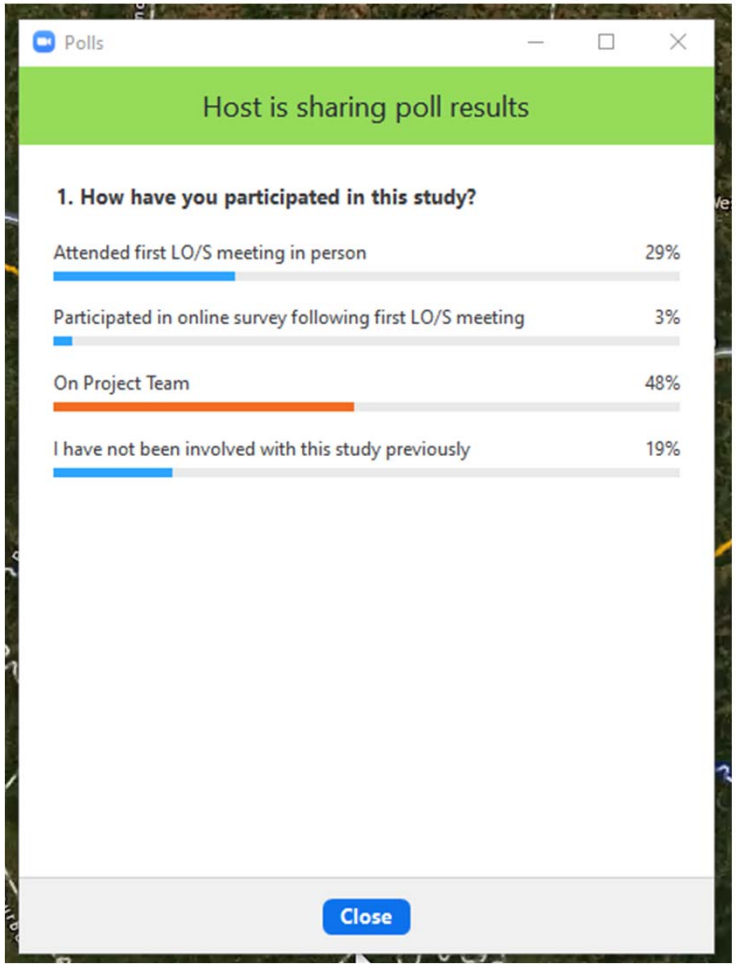
BTADD
Buffalo Trace Area Development District

AA HIGHWAY Improvements Study

- 39 Attendees
- 15 Local Officials / Stakeholders
  - IDA
  - Lewis, Mason, Bracken Co. Judge Executives
  - Kentucky State Senate – District 24
  - Kentucky State House – Districts 70 and 99
  - Bracken, Mason, Lewis Co. EMS
  - Bracken Fiscal Court
  - NKY Chamber of Commerce (2)
  - Maysville Chamber of Commerce
  - Lewis Co. Schools Superintendent

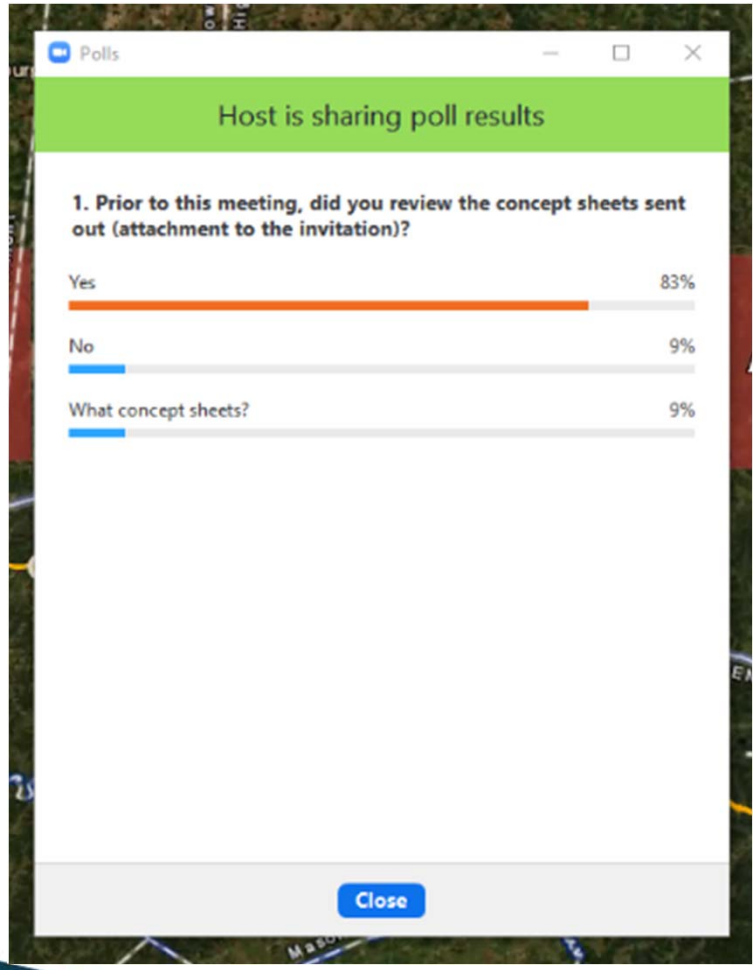
LO/S Meeting Input

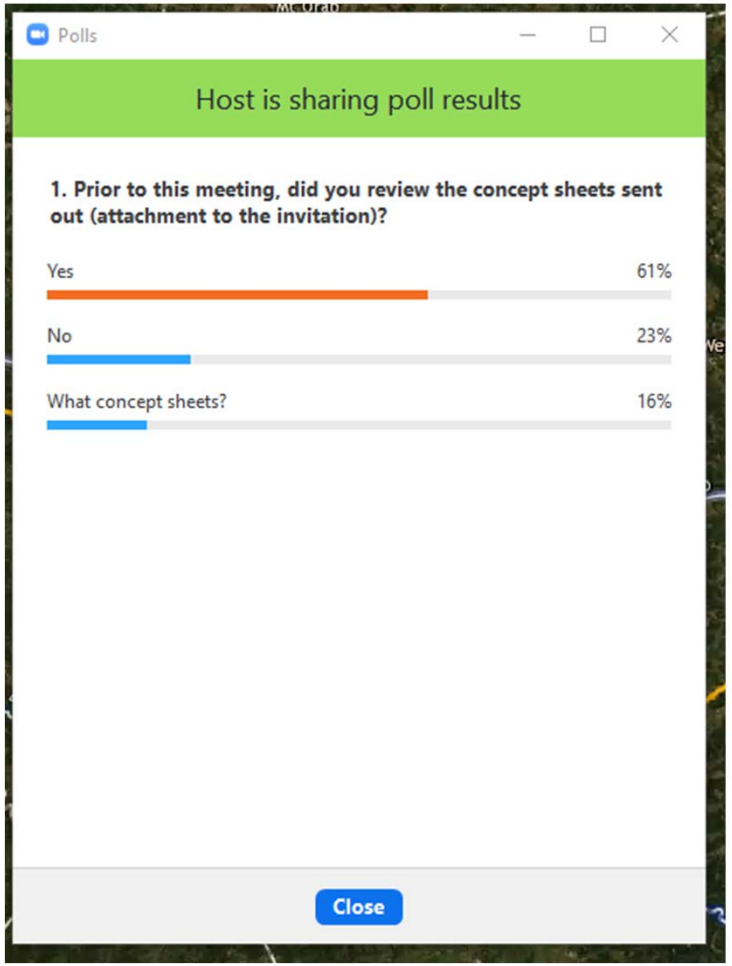




LO/S Meeting Input

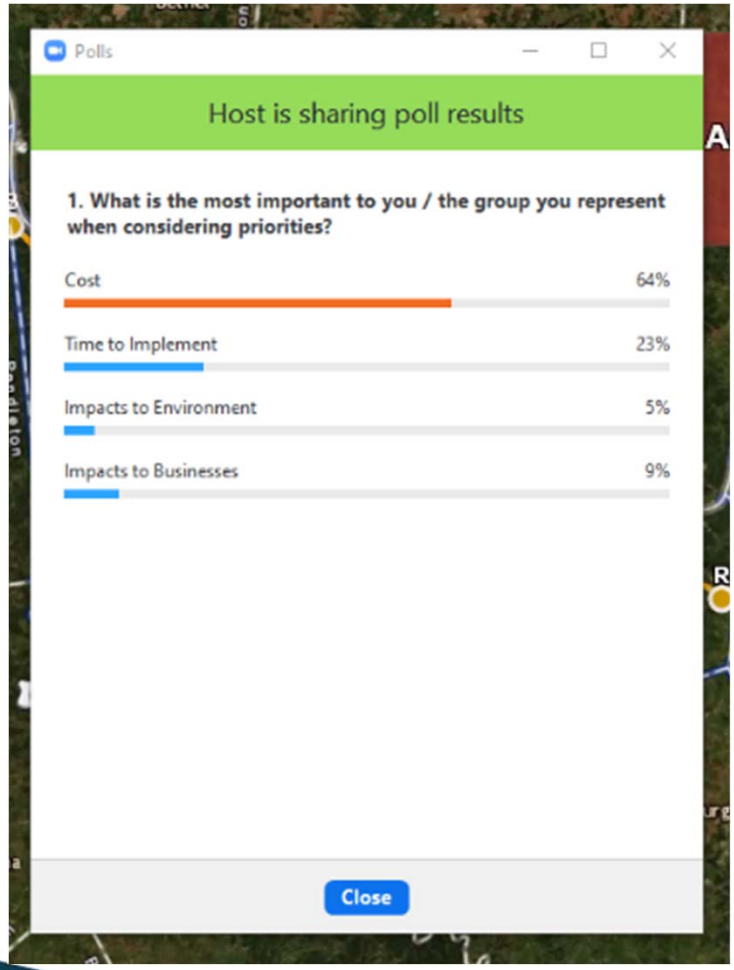
AA
HIGHWAY
Improvements Study

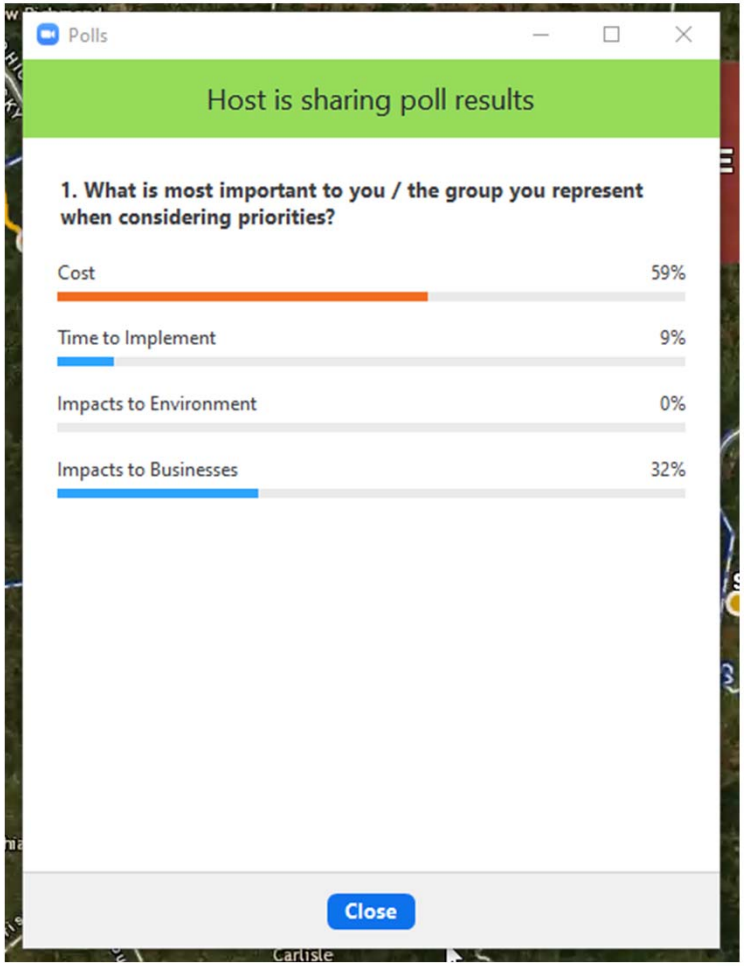




LO/S Meeting Input

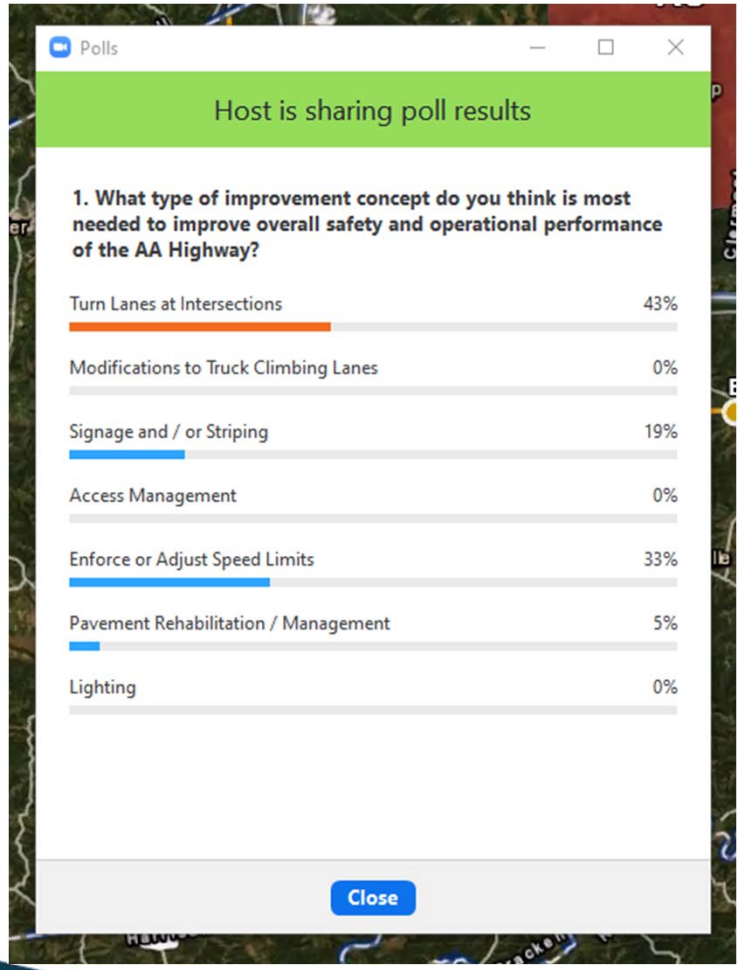
AA HIGHWAY *Improvements Study*

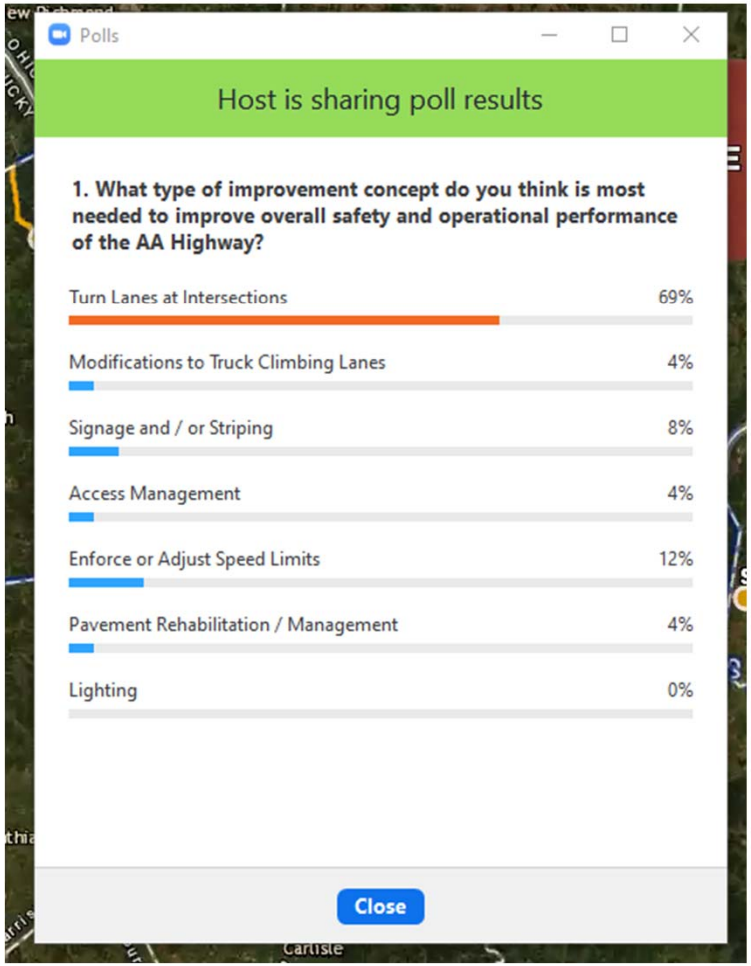




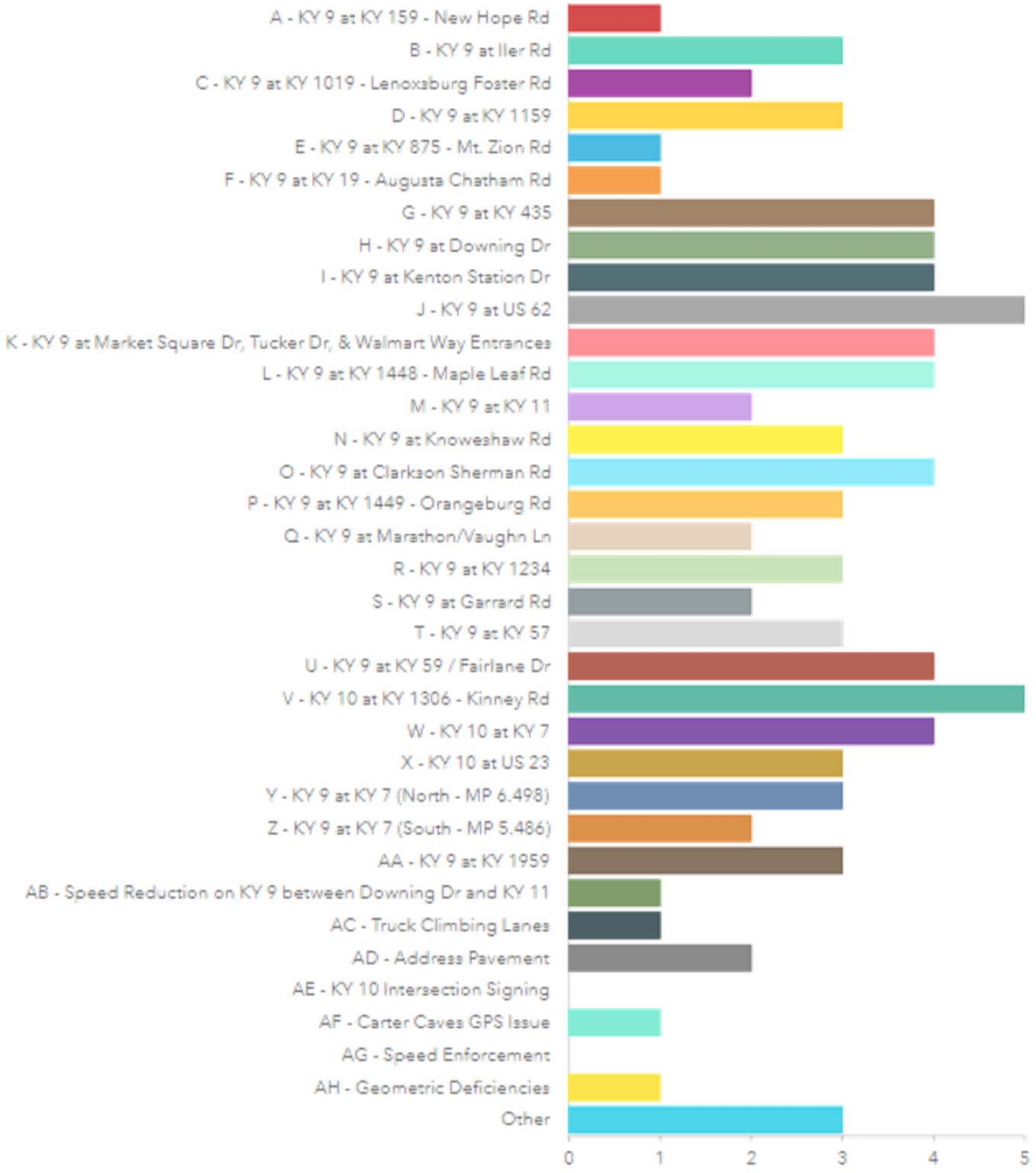
LO/S Meeting Input

AA HIGHWAY *Improvements Study*





LO/S Meeting Input



LO/S Meeting Input



Hide table Other response Empty categories Sort

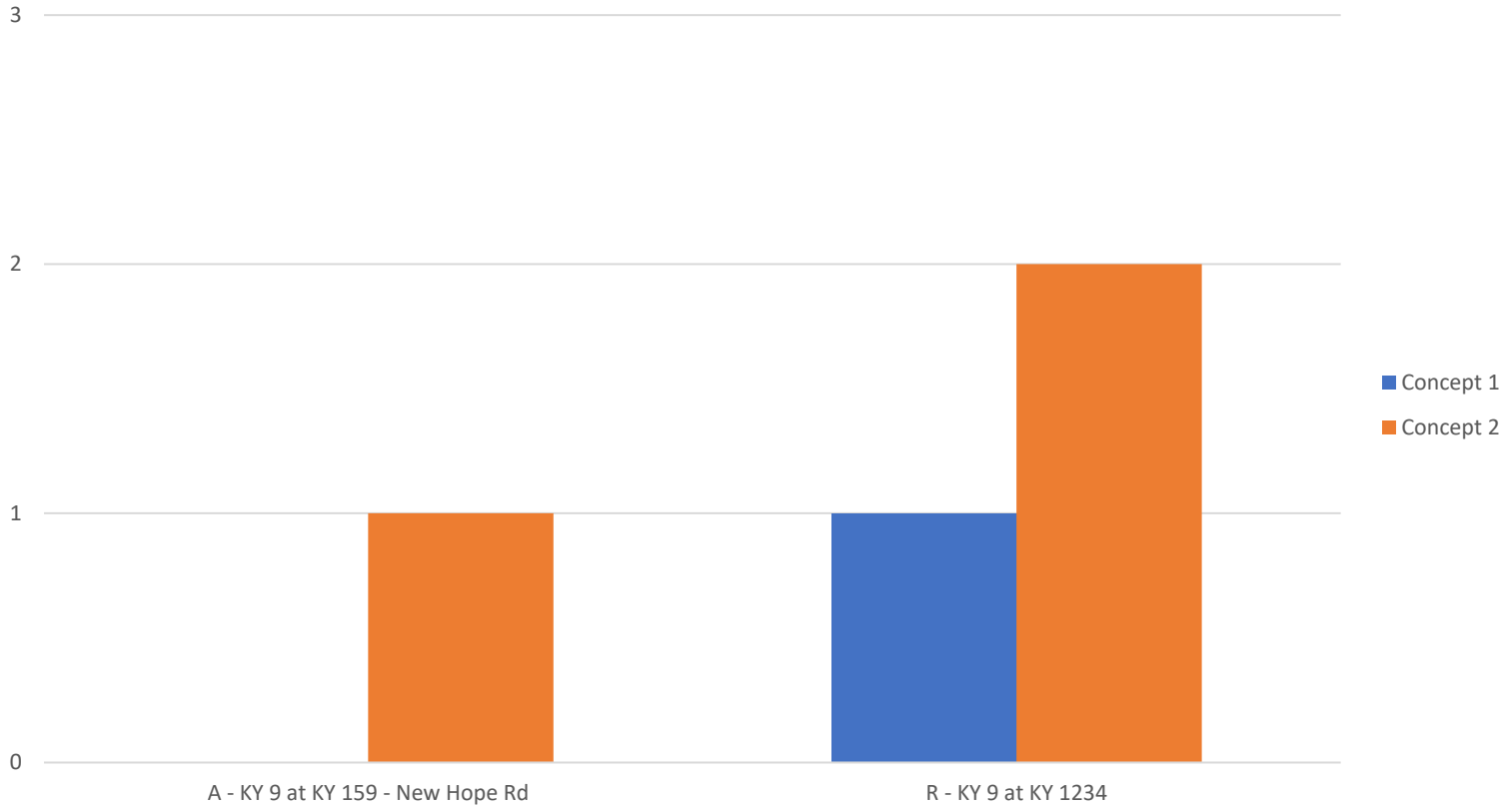
Answers	Count	Percentage
Low	17	18.68%
Medium	22	24.18%
High	48	52.75%
Other Comment - Please explain below	0	0%

Answered: 87 Skipped: 4

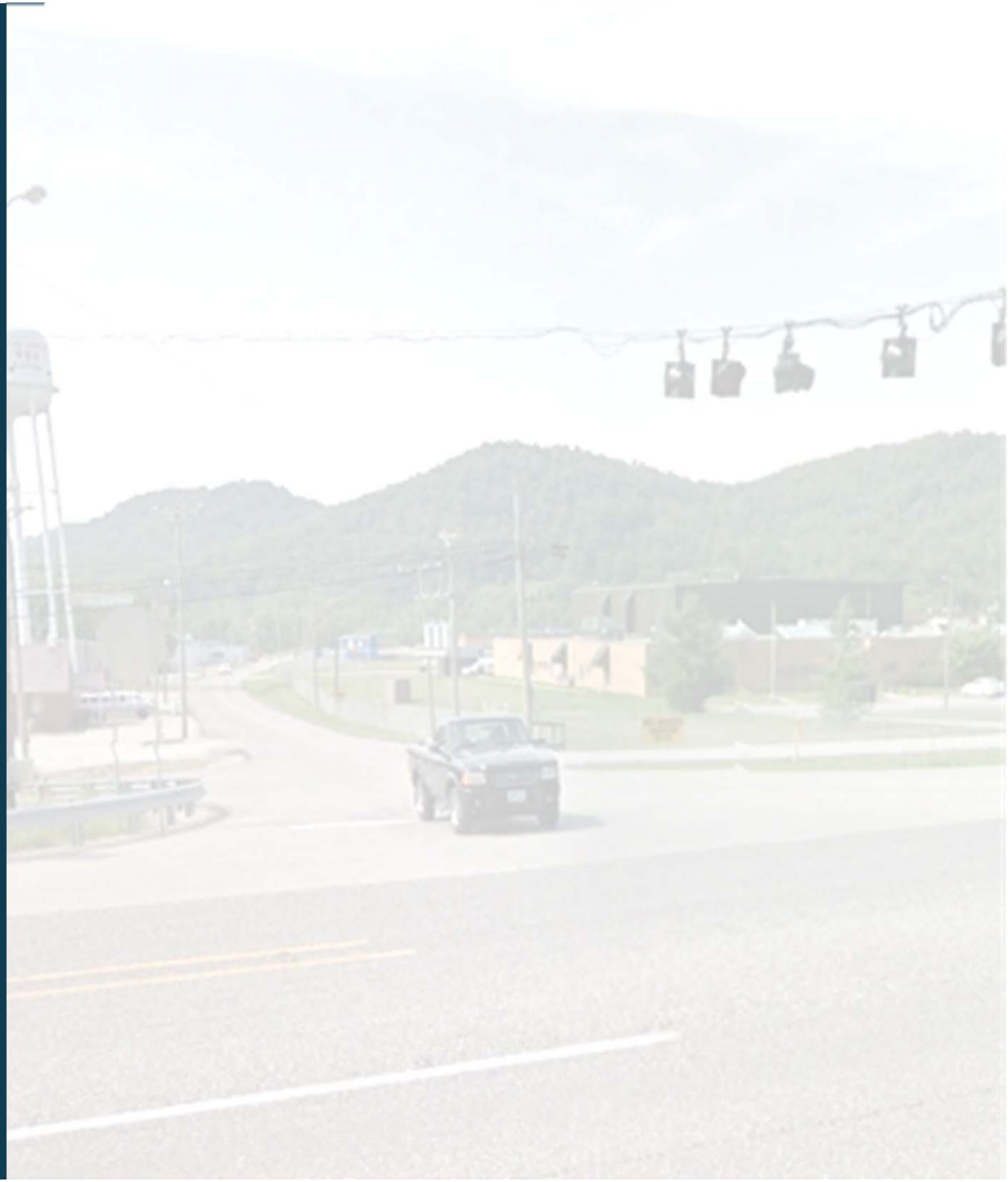
LO/S Meeting Input

Location	Priority Responses							
	High		Medium		Low		Total Count	% of Responses
	Count	%	Count	%	Count	%		
A - KY 9 at KY 159 - New Hope Rd	1	100%	-	0%	-	0%	1	1.15%
B - KY 9 at Iler Rd	2	67%	1	33%	-	0%	3	3.45%
C - KY 9 at KY 1019 - Lenoxsburg Foster Rd	-	0%	-	0%	2	100%	2	2.30%
D - KY 9 at KY 1159	2	67%	1	33%	-	0%	3	3.45%
E - KY 9 at KY 875 - Mt. Zion Rd	-	0%	1	100%	-	0%	1	1.15%
F - KY 9 at KY 19 - Augusta Chatham Rd	1	100%	-	0%	-	0%	1	1.15%
G - KY 9 at KY 435	1	25%	2	50%	1	25%	4	4.60%
H - KY 9 at Downing Dr	2	50%	2	50%	-	0%	4	4.60%
I - KY 9 at Kenton Station Dr	4	100%	-	0%	-	0%	4	4.60%
J - KY 9 at US 62	5	100%	-	0%	-	0%	5	5.75%
K - KY 9 at Market Square Dr, Tucker Dr, & Walmart Way Entrances	2	50%	-	0%	2	50%	4	4.60%
L - KY 9 at KY 1448 - Maple Leaf Rd	2	50%	1	25%	1	25%	4	4.60%
M - KY 9 at KY 11	1	50%	1	50%	-	0%	2	2.30%
N - KY 9 at Knoweshaw Rd	1	33%	1	33%	1	33%	3	3.45%
O - KY 9 at Clarkson Sherman Rd	3	75%	-	0%	1	25%	4	4.60%
P - KY 9 at KY 1449 - Orangeburg Rd	1	33%	1	33%	1	33%	3	3.45%
Q - KY 9 at Marathon/Vaughn Ln	-	0%	1	50%	1	50%	2	2.30%
R - KY 9 at KY 1234	2	67%	-	0%	1	33%	3	3.45%
S - KY 9 at Garrard Rd	1	50%	1	50%	-	0%	2	2.30%
T - KY 9 at KY 57	2	67%	1	33%	-	0%	3	3.45%
U - KY 9 at KY 59 / Fairlane D	3	75%	-	0%	1	25%	4	4.60%
V - KY 10 at KY 1306 - Kinney Rd	2	40%	2	40%	1	20%	5	5.75%
W - KY 10 at KY 7	-	0%	3	100%	-	0%	3	3.45%
X - KY 10 at US 23	3	100%	-	0%	-	0%	3	3.45%
Y - KY 9 at KY 7 (North - MP 6.498)	2	67%	1	33%	-	0%	3	3.45%
Z - KY 9 at KY 7 (South - MP 5.486)	-	0%	1	50%	1	50%	2	2.30%
AA - KY 9 at KY 1959	1	33%	1	33%	1	33%	3	3.45%
AB - Speed Reduction on KY 9 between Downing Dr and KY 11	-	0%	-	0%	1	100%	1	1.15%
AC - Truck Climbing Lanes	-	0%	-	0%	1	100%	1	1.15%
AD - Address Pavement	2	100%	-	0%	-	0%	2	2.30%
AE - KY 10 Intersection Signing	-	-	-	-	-	-	0	0.00%
AF - Carter Caves GPS Issues	1	100%	-	0%	-	0%	1	1.15%
AG - Speed Enforcement	-	-	-	-	-	-	0	0.00%
AH - Geometric Deficiencies	1	100%	-	0%	-	0%	1	1.15%
Other	-		-		-		0	0.00%

LO/S Meeting Input



Additional Concept



KY 9 at Lions Lane

AA HIGHWAY *Improvements Study*

LOCATION INFORMATION



Features

- 2-Lane
- 12' Lane Width
- 11' Shoulder Width
- Lighting on Side Streets
- 15.451% Truck Traffic
- Overhead Caution Lights
- School Zone—Reduced Speed of 35 mph during school traffic



KY 9 looking westbound

Issues

There were comments associated with this spot by local officials and stakeholders regarding the potential danger of this intersection—specifically since it is used heavily by younger, less experienced drivers going to and from Lewis County High School. The intersection sits between two curves.

IMPROVEMENT CONCEPT

Existing



Proposed

Add a second southbound lane on Lions Lane and "Do Not Block Intersection" signage.



?

SPOT

PROJECT PRIORITY

?????

LOCATION

Lewis County

KY 9 at KY 2523 (Lions Lane)

MP 12.749

DATA

2020 AADT: 5,000

2045 AADT: 5,700

Crash Data

CRF: N/A

Crashes: 0

CHAF ID: N/A

DESCRIPTION

Improve intersection by adding a second lane to the southbound Lions Lane approach.

COST ESTIMATE

2020 Dollars

Design: $10,000

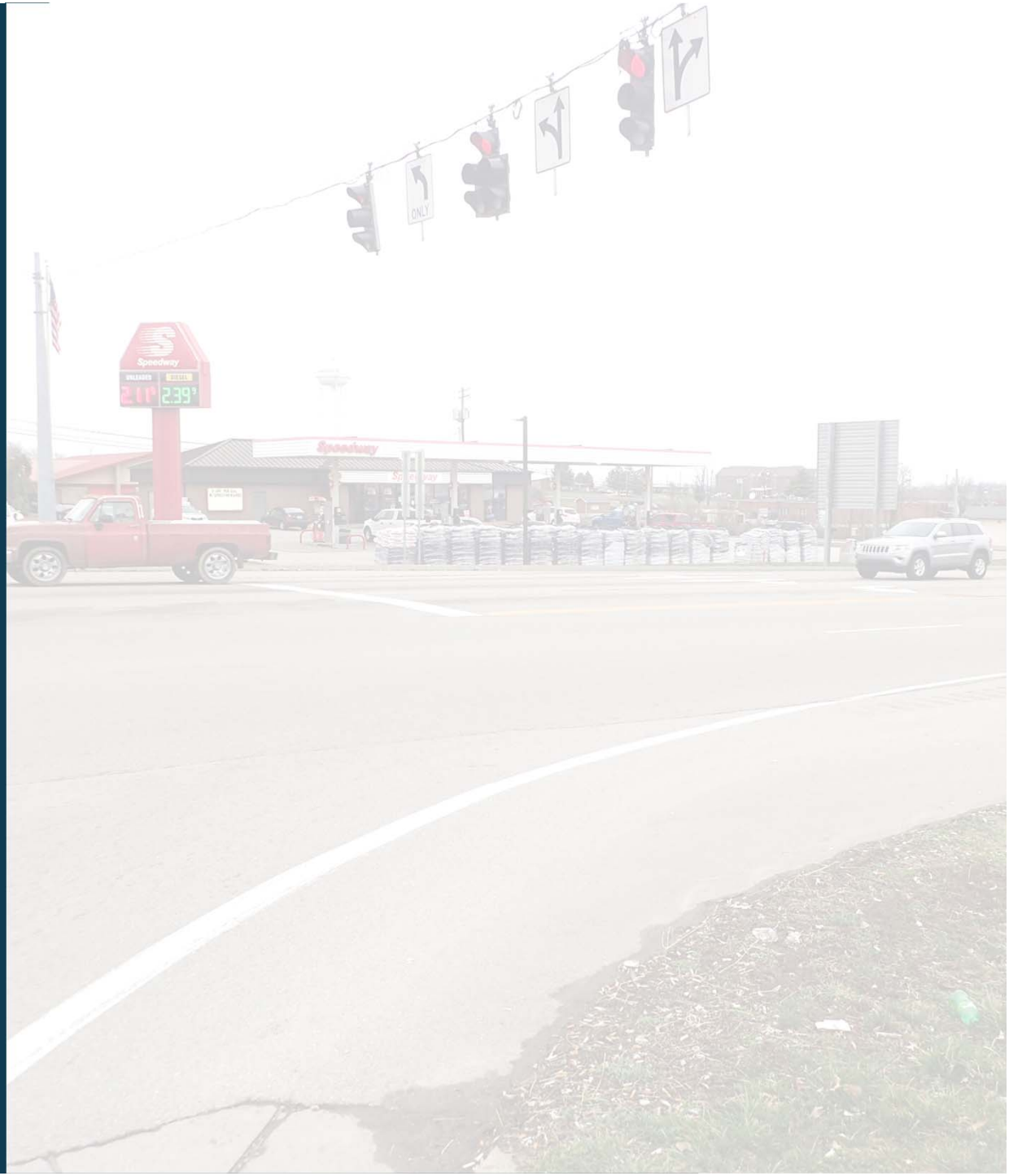
ROW: $ N/A

Utilities: $ N/A

Const.: $55,000

Total: **$65,000**

Prioritization



Prioritization Categories



- **Critical Rate Factor (CRF)**
- **Benefit – Cost (B/C)**
- **Local Official / Stakeholder Input (LO/S)**
- **SHIFT Score**

High Priority

	CRF	B/C	LO/S	TOTAL SCORE
L	29	32	28	89
J	34	21	34	89
H	24	34	31	89
D	25	31	24	80
X	33	26	18	77
T	27	30	20	77
W	30	27	19	76
V	26	12	33	71
AB	32	33	6	71
G	20	17	32	69
U	19	20	26	65
M	31	19	14	64
N	21	18	23	62
I	16	16	30	62
P	23	15	22	60

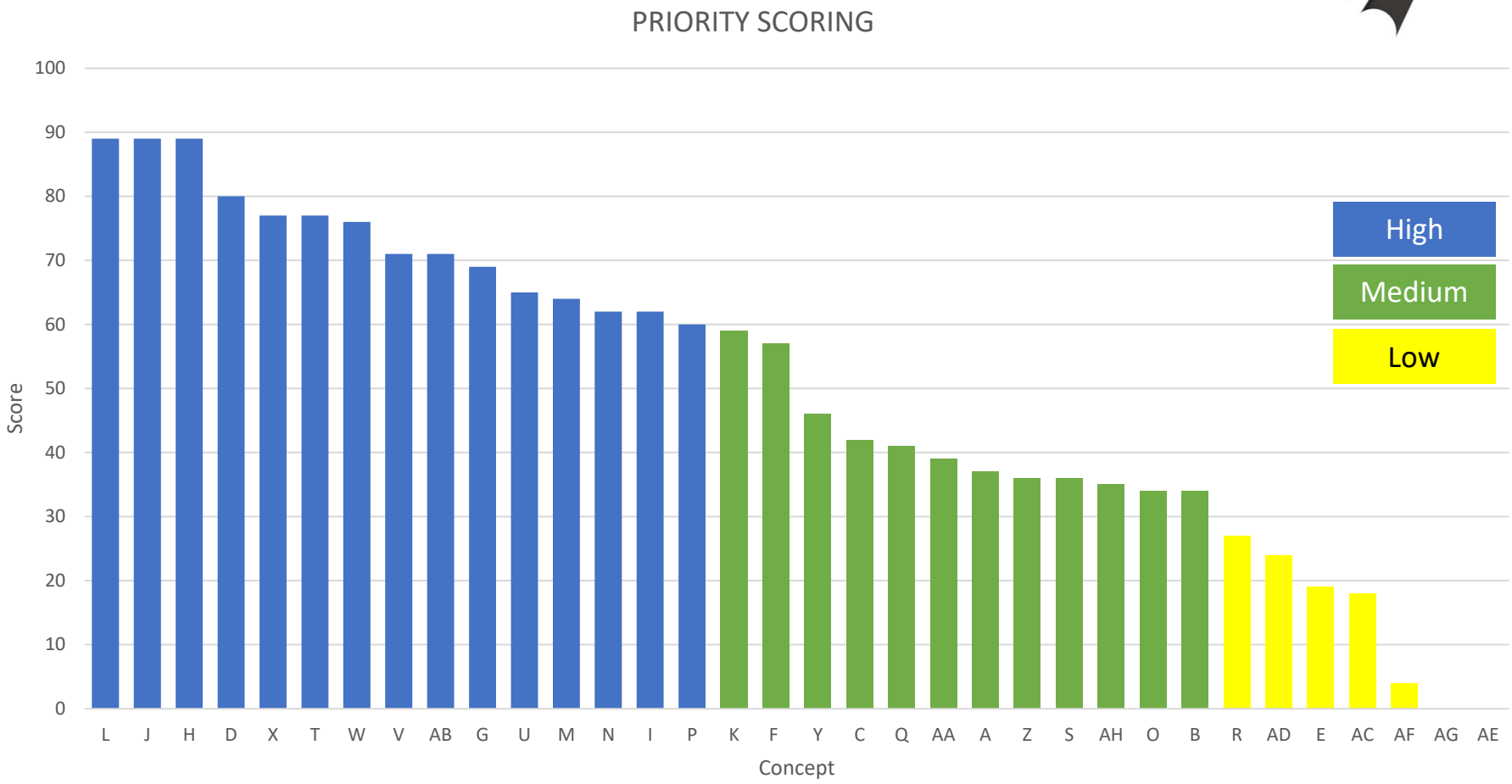
Medium Priority

	CRF	B/C	LO/S	TOTAL SCORE
K	22	8	29	59
F	28	22	7	57
Y	0	29	17	46
C	17	10	15	42
Q	15	13	13	41
AA	0	23	16	39
A	0	28	9	37
Z	0	25	11	36
S	0	24	12	36
AH	18	14	3	35
O	0	7	27	34
B	0	9	25	34

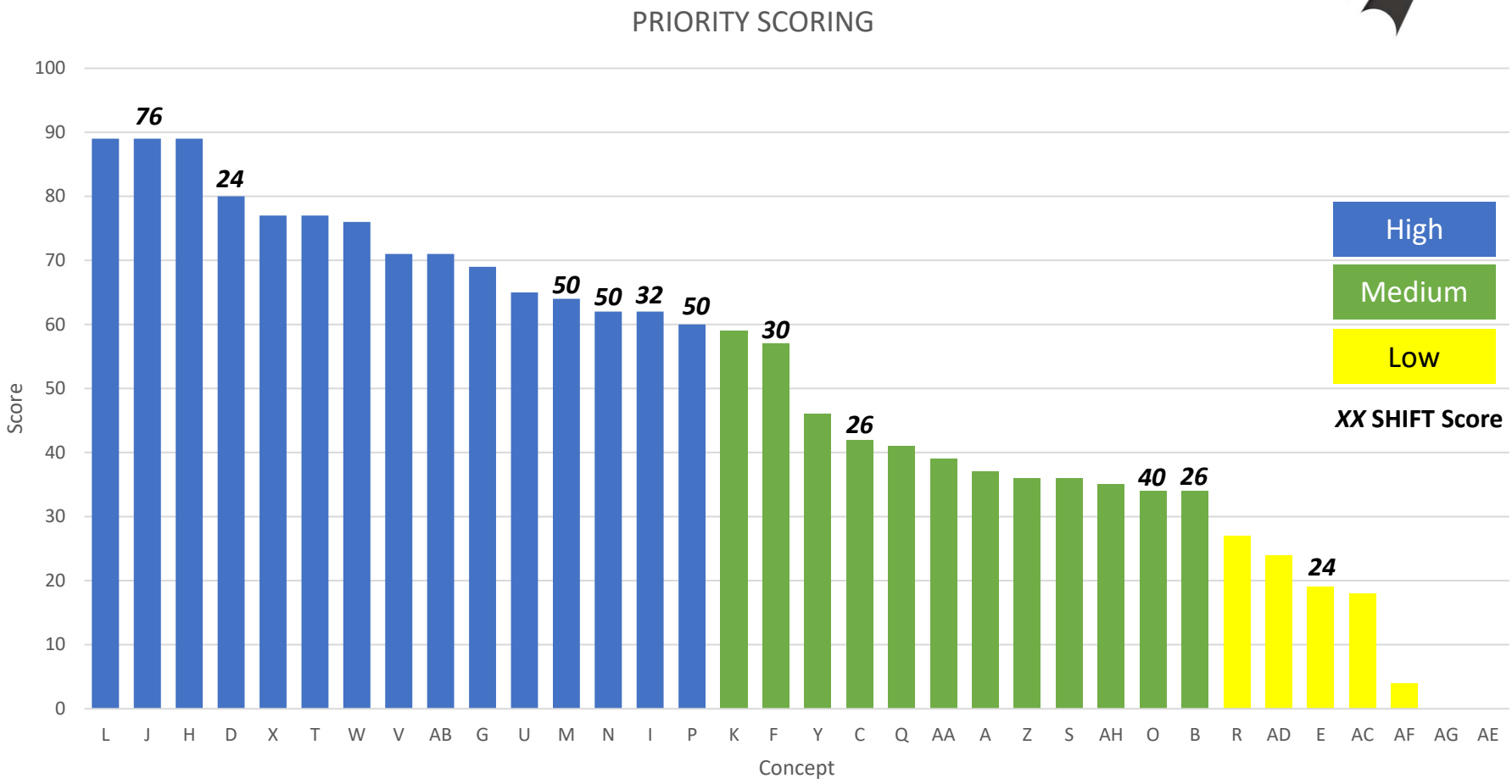
Low Priority

	CRF	B/C	LO/S	TOTAL SCORE
R	0	6	21	27
AD	14	0	10	24
E	0	11	8	19
AC	13	0	5	18
AF	0	0	4	4
AG	0	0	0	0
AE	0	0	0	0

Prioritization



Prioritization



Cost

	Cost
High Priority	$6,097,500
Medium Priority	$10,850,000
Low Priority	$560,000
Total Cost	$17,507,500

Note: Costs are in 2020 dollars and include Design (D), Right-of-Way (ROW), Utilities (U), and Construction (C). These are planning-level only estimates; surveying and detailed design work has not been completed at this time.

Next Steps

1. Additional Review / Development of KY 9 at Lions Lane Concept Sheet
2. Finalize Prioritization
3. Prepare Draft Report

Contacts

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Michael Read
KYTC District 9 Project Managers
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Michael.Read@ky.gov

KENTUCKY TRANSPORTATION CABINET

AECOM

APPENDIX F:

Additional Improvement Concept Information

Improvement Concepts - Spots and Segments

Location						Features											High Crash Location?			Identified or Committed Project?				LO/S Input		Geometric Issue?		Additional Comments
																				Unsponsored Identified		Sponsored Identified / Committed Project							
Initial Spot / Intersection Number	Revised Improvement Location ID	Route	County	Intersecting Route	Milepoints	2020 AADT (vpd)	Truck %	Traffic Counts Performed?	Speed Limit (mph)	No. Lanes	Lane Width (ft)	Shoulder Width (ft)	Lighting? (Yes/No)	Median Width	Auxiliary Lane	Auxiliary Lane Info	Closest Truck Climbing Endpoint to Intersection Distance (ft)	Urban/ Rural. (All Principal Arterial)	Bridge Data	Yes/No	CRF	Fatalities	CHAF	Description	CHAF / ID No.	Description	2020 Score	# Responses	Comment	Yes/No	Type	Notes
1	-	KY 9	Pendleton	Short Ivoir Rd	3.628 - 3.928	7800	19.418	No	55	2	12	10	No	0	Truck Climbing Lane	WB, MPs 3.577 - 2.833 (Pendleton)	269	Rural	-	Yes	1.06	-	-	-	-	-	-	0	-	No	-	On CRF Threshold; no LO/S Comments
2	A	KY 9	Pendleton	KY 159 - New Hope Rd	0.296	7800	19.418	No	55	3	12	10	Yes	0	Truck Climbing Lane	WB, MPs 18.809 (Bracken) -0.315 (Pendleton), 7.200 ft	100	Rural	-	No	0.91	-	IF20080380	Improve Intersection	-	-	-	2	Transition Issue of Passing Lane	No	-	WB Passing Lane Drops Past Intersection; No Turn Lanes; Mostly Collisions with Animals
3	B	KY 9	Bracken	Ier Rd	19.804	7300	19.418	Yes	55	3	12	11	Yes	0	Truck Climbing Lane	WB, MPs 18.809 (Bracken) -0.315 (Pendleton), 7.200 ft	1943	Rural	-	No	0.83	-	IF20190008	Improve Intersection	IF20070207	Widen to 4-Lane Divided	26.4	2	Major Traffic Generator; Add Turn Lanes	No	-	Ok Acquiring Route; Turn Lanes Not Warranted; 75% Crashes Injury
4	-	KY9	Bracken	Foster Rd	18.809	5800	10.558	No	55	2	12	11	Yes	0	Turning Lane	EB LT, 18.856 - 18.809 (Bracken), 12' wide	0	Rural	-	No	-	-	-	-	IF20070207	Widen to 4-Lane Divided	26.4	1	Need Turn Lanes	No	-	Route Transferring to County; Ier Road Considered Instead for Turn Lanes
5	AC	KY 9	Bracken	Kennon Rd	18.335 - 18.631	5800	10.558	No	55	2	12	11	No	0	Turning Lane	EB LT, 18.856 - 18.809 (Bracken), 12' wide	919	Rural	-	No	0.98	-	-	-	IF20070207	Widen to 4-Lane Divided	26.4	0	-	No	-	CR+1; Explore as Part of Corridor-Wide project for Adding / Modifying Climbing Lanes
6	-	KY 9	Bracken	Hollis Creek Rd	17.612 - 17.912	5800	10.558	Yes	55	2	12	12	No	1	Truck Climbing Lane	EB, MPs 17.865 - 16.715 (Bracken), 6,075 ft	0	Rural	-	No	0.94	-	-	-	IF20070207	Widen to 4-Lane Divided	26.4	1	Need Turn Lanes	No	-	CR+1; Turn Lanes Not Warranted Per Traffic Count
7	C	KY 9	Bracken	KY 1019 - Lenoxburg Foster Rd	16.856	7300	19.418	No	55	3	12	11	Yes	0	Turning / Truck Climbing Lane	Turning Lanes: EB LT, MPs 16.856 - 16.915, 12' wide	744	Rural	-	Yes	1.18	-	-	-	IF20070207	Widen to 4-Lane Divided	26.4	0	-	No	-	EB Passing Lane; Left Turn Lanes; Several Angle Collisions
8	AC	KY 9	Bracken	N/A	15.850 - 16.150	7300	19.418	No	55	2	12	11	No	0	Truck Climbing Lane	EB, MPs 17.865 - 16.715 (Bracken), 6,075 ft	2983	Rural	-	No	0.98	-	-	-	IF20070207	Widen to 4-Lane Divided	26.4	0	-	No	-	CR+1; Explore as Part of Corridor-Wide project for Adding / Modifying Climbing Lanes
9	-	KY 9	Bracken	Eden Ridge Rd	15.687	7300	19.418	Yes	55	2	12	11	No	1	Truck Climbing Lane	EB, MPs 17.865 - 16.715 (Bracken), 6,075 ft	5428	Rural	-	No	-	-	-	-	IF20070207	Widen to 4-Lane Divided	26.4	1	Need Turn Lanes	No	-	CR+1; Turn Lanes Not Warranted Per Traffic Count
10	D	KY 9	Bracken	KY 1159	10.259 - 10.559	6400 / 5500	19.418	No	55	2	12	11	Yes	0	Turning	EB LT, MPs 10.259 - 10.310, 12' wide WB LT, MPs 10.210 - 10.259, 12' wide	2540	Rural	0123000029N - Fair - 75 - Goose Creek	Yes	1.77	-	-	-	IF20080277	Widen to 4-Lane Divided	24.0	0	-	No	-	Left Turn Lanes; No Apparent Bridge Drains; Head-On and Sideswipe Crashes
11	E	KY 9	Bracken	KY 875 - Mt. Zion Rd	7.751	5500	19.418	Yes	55	3	12	11	Yes	0	Truck Climbing Lane	EB, MPs 7.550 - 8.240, 3,640 ft	1061	Rural	-	No	-	-	IF20150014	Improve Intersection	IF20080277	Widen to 4-Lane Divided	24.0	2	Turn Lanes; Tight Radii	No	-	EB Passing Lane; No Turn Lanes; Three Angle Collisions
12	F	KY 9	Bracken	KY 19 - Augusta Chatham Rd	5.546	5500 / 6200	19.418	No	55	2	12	11	Yes	0	Turning	EB LT, MPs 5.546 - 5.600 WB LT, MPs 5.495 - 5.546	-	Rural	-	Yes	2.03	-	-	-	IF20080277 / IF20080553	Widen to 4-Lane Divided	24.0 / 29.5	0	-	No	-	Left Turn Lanes; Car Park; Several Angle Collisions; Several Animal Collisions
13	-	KY 9	Bracken	Hook Ln	2.831	1210	19.418	No	55	2	12	11	Yes	1	Turning	EB LT, MPs 2.831 - 2.775, 12' wide WB RT, MPs 2.831 - 2.775, 12' wide	-	Rural	-	No	-	-	-	-	IF20080553	Widen to 4-Lane Divided	29.5	1	Turning Traffic with Trailers	No	-	Potential Future Private Adjacent Land Development
14	G	KY 9	Mason	KY 435	17.049	5800 / 6400	10.558	No	55	4	12	10	Yes	14	Turning	EB LT, MPs 17.049 - 17.080, 14' wide EB RT, MPs 17.049 - 17.080, 12' wide	-	Rural	-	Yes	1.30	-	-	-	-	-	-	0	-	No	-	4 Crashes Post Construction; Wet Conditions; 3 Run Off Roadway
15	-	KY 9	Mason	Slack Pike	14.642 - 14.942	200	10.558	No	55	2	12	0	No	14	Turning	EB LT, MPs 15.104 - 14.941, 14' wide EB RT, MPs 15.004 - 14.941, 12' wide	-	Rural	-	Yes	1.52	-	-	-	-	-	-	0	-	No	-	Evaluation of Crash Data Showed Post-Construction Crashes Occurred in Parking Lot
16	H	KY 9	Mason	Downing Dr.	12.620	9200	10.558	Yes	55	4	12	10	Yes	14	Turning	EB LT, MPs 12.620 - 12.773, 14' wide EB RT, MPs 12.620 - 12.773, 12' wide	-	Urban / Rural	-	Yes	1.76	-	-	-	-	-	-	0	-	No	-	No Lighting on Ramp; Interchange
17	I	KY 9	Mason	Kenton Station Dr.	10.861	12400	13.735	Yes	55	4	12	2	No	14 - TWLTL	TWLTL / Turning	MPs 10.256 - 12.242, 10.490 ft, 14' wide EB LT Turn Lane	-	Urban	0818000057N - Good - 80.7 - Lawrence	Yes	1.16	1 - Angle	-	-	IF20160298	Construct Right Turn Lane	31.8	3	Add Right Turn Lane to Hospital	No	-	No Right Turn Lane; 8 Rear End Collisions; No Lighting
18	J	KY 9	Mason	US 62	10.180 - 10.567	13900 / 13400	13.735 / 14.169	Yes	45	4	12	2 / 1	Yes	14 - TWLTL	TWLTL / Turning	Verify turning lanes. WB LT 12'	-	Urban	-	Yes	2.85 - 3.89	-	-	-	IF20170079	Improve Intersection	75.6	0	-	No	-	All Right Turns Shared; Double Lefts on All Approaches; Primarily Rear End Crashes
19	K	KY 9	Mason	Market Square Dr, Tucker Dr, Walmart Way Entrances	9.250 - 10.000	13400	14.169	Yes	45	4	12	10	Yes	15 - Mountable	Turning	Various, 12' wide	-	Urban	-	Yes	0.90 - 1.52	-	Maysville SUA ID T	Improve Intersection	-	-	-	1	Future Planned Development	No	-	Left and Right Turn Lanes; Mix of Rear End, Angle, and Opposing Left Turn Crashes
20	L	KY 9	Mason	KY 1448 - Maple Leaf Rd	8.969	13400 / 12000	14.169	No	55	4	12	10 (less at intersection)	Yes	15 - Mountable	Turning	EB LT, MPs 8.969 - 9.000, 12' wide EB RT, MPs 8.969 - 9.035, 12' wide	-	Urban	-	Yes	2.08	-	-	-	-	-	-	0	-	No	-	Left and Right Turn Lanes; Striping May be an Issue; Read End Crashes
21	M	KY 9	Mason	KY 11	7.560	12000 / 8200	14.169 / 13.395	Yes	55	4	12	10	Yes	15- Mountable	Turning	EB LT, MPs 7.560 - 7.617, 10' wide WB LT, MPs 7.521 - 7.560, 10' wide	-	Urban	-	Yes	2.83	-	IF20110092 / IF20060255	Widening, access control, overhead lighting.	IF20160183 / IF20190115	Widen to 4-Lane Divided	50.4 / 50.4	0	-	No	-	Rear End Crashes; Shared Through / Right Lanes
22	AC	KY 9	Mason	Strodes Run Pike	6.990 - 7.425	8200	13.395	No	55	2	12	10	No	0	Turning	EB LT, MPs 7.380 - 7.352	-	Rural	-	Yes	1.02	-	Maysville SUA ID L / IF20110092 / IF20060255	Improve transition. Widening, access control, overhead lighting.	IF20160183 / IF20190115	Widen to 4-Lane Divided	50.4 / 50.4	0	-	No	-	On CRF Threshold; Explore as Part of Corridor-Wide project for Adding / Modifying Climbing Lanes
23	N	KY 9	Mason	Knoweshaw Rd	5.900 - 6.230	8200	13.395	No	55	2	12	10	No	0	-	-	-	Rural	0818000065N-Fair - 93 - Railroad	Yes	1.02 - 1.36	-	IF20110092 / IF20060255	Widening, access control, overhead lighting.	IF20160183 / IF20190115	Widen to 4-Lane Divided	50.4 / 50.4	0	-	No	-	Rear End Crashes; No Turn Lanes; No Painted Stop Bars on Approaches
24	-	KY 9	Mason	N/A Farm Entrance	5.200 - 5.400	8200	13.395	No	55	2	12	10	No	0	-	-	-	Rural	-	No	0.80	-	IF20110092 / IF20060255	Widening, access control, overhead lighting.	IF20160183 / IF20190115	Widen to 4-Lane Divided	50.4 / 50.4	0	-	No	-	Fatality Involved Human Behavior; Alcohol
25	O	KY 9	Mason	Clarkson Sherman Rd	4.740	8200	13.395	Yes but Insufficient	55	2	12	10	No	0	-	-	-	Rural	-	No	-	-	IF20060255 / IF20110093	Widening, access control, overhead lighting.	IF20150186	Construct Right Turn Lane	40.0	1	Turn Lanes for Landfill Access	No	-	Trucks Turning into Landfill; No Painted Stop Bars on Approaches
26	P	KY 9	Mason	KY 1449 - Orangeburg Rd	3.781	6100	13.395	No	55	2	12	10	Yes	0	Turning	EB LT, MPs 3.781 - 3.843, 12' wide WB LT, MPs 3.729 - 3.781, 12' wide	-	Rural	-	Yes	1.58	1-Rear End	IF20060255 / IF20110093	Widening, access control, overhead lighting.	IF20160183	Widen to 4-Lane Divided	50.4	0	-	No	-	Angle Collisions; Wide Flares for Right Turning Traffic; Oversized and Dual Stop Signs on Side Street
27	Q	KY 9	Mason	Marathon/Vaughn Ln	2.960	6100	13.395	No	55	2	12	10	No	0	-	-	-	Rural	-	Yes	1.11	-	IF20060255 / IF20110093	Widening, access control, overhead lighting.	-	-	-	1	Re-Paint Lane Lines / Edge Lines	No	-	Trucks Turning in/ out of Gas Station; No Turn Lanes; No Painted Stop Bars on Approaches
28	R	KY 9	Mason	KY 1234	0.742	6100	13.395	No	55	2	12	10	No	0	-	-	760	Rural	-	No	-	-	IF20060255 / IF20110093	Widening, access control, overhead lighting.	-	-	-	2	Turn Lane; Road Width	No	-	Collision with Animal; Striping Confusing; Looks Like Turn Lane
29	S	KY 9	Lewis	Garrard Rd	30.360	5000	15.151	No	55	2	12	11	Yes	0	-	-	-	Rural	-	No	0.78	-	-	-	-	-	-	2	No Passing Zone Needed	No	-	Issues with Cars Passing
30	AD	KY 9	Lewis	N/A	29.014 - 29.314	5000	15.151	No	55	2	12	11	No	0	Turning	EB LT, MPs 28.480 - 28.380, 12' wide EB RT, MPs 28.445 - 28.380, 12' wide	2820	Rural	-	No	0.78	-	-	-	-	-	-	2	Pavement Issue - Pavement Markers, Crack Sealing	No	-	CR+1; Explore as Part of Corridor-Wide Project for Pavement Management
31	T	KY 9	Lewis	KY 57	28.380	5000 / 4900	15.151 / 15.451	No	55	2	12	11	Yes	0	Turning	EB LT, MPs 28.380 - 28.445, 12' wide EB RT, MPs 28.830 - 28.480, 12' wide	-	Rural	-	Yes	1.88	-	-	-	9-8807.00	Reconstruct KY 57	-	0	-	No	-	2 Head on Collisions; Left and Right Turn Lanes; Striping Appears to be Faded
32	-	KY 9	Lewis	Simmons Rd	27.175 - 27.475	5500	15.451	No	55	2	12	11	No	0	Truck Climbing Lane	EB, MPs 26.040 - 25.725	5993	Rural	-	No	0.95	-	-	-	-	-	-	0	-	No	-	CR+1; No LO/S Comments
33	AC	KY 9	Lewis	N/A	22.100	5500	15.451	No	55	2	12	11	No	0	Truck Climbing Lane	EB, MPs 22.719 - 22.410 WB, MPs 22.559 - 21.989	-	Rural	-	No	-	-	-	-	9-20010.00	Address Pavement Condition	-	2	Short Passing Lane	No	-	CR+1; Explore as Part of Corridor-Wide project for Adding / Modifying Climbing Lanes
34	-	KY 9	Lewis	KY 2523 - Lions Ln	12.749	5000	15.451	No	55	2	12	11	Yes	14	Turning	EB LT, MPs 12.805 - 12.749, 12' wide WB RT, MPs 12.749 -12.715, 12' wide	-	Rural	-	No	-	-	-	-	-	-	-	0	-	No	-	Previously Brought up by DS; No Identified Crashes
35	U	KY 9	Lewis	KY 59 / Fairlane Dr	11.205	5000 / 5100	15.451 / 19.148	Planning Study Count	55	3	12	11	Yes	0	Turning / Truck Climbing Lane	Turning Lanes: EB LT, MPs 11.205 - 11.275, 12' wide	0	Rural	0688001003N - Good - 97.9 - Dry Run Creek	Yes	1.20	-	IF20161033	Reconstruct KY 9 - turn lanes; lighting; sight distance, reduce speed limit.	-	-	-	0	-	Yes	Hor. Curve (10.812-11.133)	Left Turn Lanes Only; Angle Collisions; Culverts on Both Sides of Road
36	V	KY 10	Lewis	KY 1306 - Kinney Rd	11.805 - 12.305	2600 / 4600	9.869	No	55	2	12	11	No	0	-	-	-	Rural	0688001010N - Good - Kinniconnick Creek -	Yes	1.85	1 - Fixed Object	-	-	-	-	-	0	-	No	-	Driveway in Curve; Fatality - Striking Tree; No Turn Lanes
37	-	KY 10	Lewis	KY 3311	14.183 - 14.483	1300	9.599	No	55	2	12	11	No	0	Turning	EB LT, MPs 14.365 - 14.306, 12' wide WB RT, MPs 14.420-14.365, 12' wide	-	Rural	-	No	-	-	-	-	-	-	-	0	-	No	-	CR+1; No LO/S Comments
38	W	KY 10	Greenup	KY 7	8.289	1800 / 2900	9.599	No	55	2	12	12	No	0	Turning	EB RT, MPs 8.206 - 8.289, 12' wide EB LT, MPs 8.206 - 8.289, 12' wide	940	Rural	0458000715N - Fair - 96.4 - Tygarts Creek	Yes	2.11	-	-	-	-	-	-	1	Existing Overhead Caution Lights but a Lot of Crashes; Add Lighting	No	-	6 Angle Collisions; Multiple Angle Collisions Nearby
39	X	KY 10	Greenup	US 23	11.582	2900 / 6700	9.559 / 11.417	No	55	3	12	12	No	0	Turning	EB RT, MPs 11.461 - 11.582, 12' wide EB LT, MPs 11.518 - 11.582, 12' wide	639	Rural	-	Yes	3.77	-	-	-	-	-	-	1	Fog; Need Alert for Signal	No	-	Fog Issues; 8 Angle Collisions; 5 Rear End Collisions; Left and Right Turn Lanes
40	Y	KY 9	Carter	KY 7 (North)	6.498	3000	15.923	Yes	55	2	12	12	No	0	-	-	5053	Rural	-	No	-	-	IF20080528	Widening	-	-	-	2	Sight Distance Issue; Passing Zone; Steep Grade; No Turn Lanes	No	-	Intersection in Curve; No Turn Lanes
41	Z	KY 9	Carter	KY 7 (South)	5.486	3000 / 4000	15.923	Yes	55	3	12	12	No	0	Truck Climbing Lane	EB, MPs 4.646 - 5.541, 4,730 ft	290	Rural	-	No	-	-	IF20080528	Widening	-	-	-	1	Transition Issue	No	-	Transition Issues; Multiple Animal Collisions; No Turn Lanes
42	AA	KY 9	Carter	KY 1959	1.078	4000 / 4600	19.874	Yes	55	2	12	12	No	0	Turning	EB LT, MPs 1.078 - 1.120, 12' wide WB LT, MPs 1.015 - 1.078, 12' wide	1172	Rural	-	No	-	-	IF20080528 / IF20080529	Widening / Improve Intersection	-	-	-	1	Transition Issue; No Lighting; No Caution Lights	No	-	No Turn Lanes
43	-	KY 9	Carter	KY 1	0.000	4600	19.874	No	55	2	12	12	Yes	0	Turning / Truck Climbing Lane	EB RT, MPs 0.100 - 0.000, 12' wide EB, MPs 0.856 - 0.000'	-	Rural	-	No	-	-	IF20080528	Widening	-	-	-	1	Right Lane Drops; Truck Issues	No	-	KYTC Reviewing Signage per Grayson SUA

Improvement Concepts - Corridor Wide

Location						High Crash Location?		LO/S Input		Geometric Issue?		Additional Comments
#	Revised Improvement ID Location	Route	County	Intersecting Route	Milepoints	Yes/No	CRF	# Responses	Comment	Yes/No	Type	Description
1	AB	KY 9	Mason	Downing Dr. to Parker Rd. Walmart Way entrance to KY 11.	7.560 -9.179 & 10.545 - 12.620	Yes	1.16-2.85	1	Reduce speed limit.	-	-	Reduce existing 55 mph speed limit to 45 mph along KY 9 between KY 11 and Downing Dr. Increase law enforcement or add traffic calming measures such as "Your Speed" signs, transverse rumble strips and painted warnings, speed tables, etc.
2	AC	KY 9 / KY 10	All Counties	-	-	Yes	0.98 - 1.02	-	-	-	-	Evaluate existing truck climbing lane locations to determine if modifications are recommended; determine if additional truck climbing lanes are needed.
3	AD	KY 9 / KY 10	All Counties	-	-	-	-	3	Pavement issue - center rutting issue - related to pavement markers. Throughout corridor; crack sealing covers pavement stripes causing safety issue especially at night.	-	-	Identify and Prioritize Preventative Maintenance Funds for portions of AA Highway that have not been recently repaved.
4	AE	KY 10	Lewis / Greenup	Howland Hill Rd, Blackbird Rd, Tygart's Creek Rd, E. Tygart's Creek Rd, Graysbranch Rd	6.800 (KY 9/10 Split) - 11.600 (US 23)	-	-	5	Delineator posts - reflectors on posts to mark where side roads approach AA	-	-	Intersection awareness; signage, striping, and identification of side streets.
5	AF	N/A	Carter	-	-	-	-	1	Directional navigation uses local streets rather than higher functional class routes.	-	-	Evaluate routes and functional classifications for roadways connecting from AA Highway to Carter Caves State Resort Park. Route vehicles in GPS.
6	AG	KY 9	Pendleton / Bracken / Mason	-	-	-	-	1	Lack of vehicle enforcement - truck traffic enforcement through whole corridor.	-	-	Add speed reduction measures to lower the 85th percentile speed closer to 55 and 45 mph speed limits.
7	AH	KY 9	Lewis	-	9.553 - 11.133	Yes	1.19	-	-	Yes	Horizontal curve radii do not meet the design speed based on the existing superelevations as identified in the as-built plans. Three identified locations have ran-off roadway crashes that could	Mitigate crashes relating to deficient horizontal curves.

APPENDIX G:

Traffic Forecast

Traffic Forecast Report

AA Highway Improvements Study

Pendleton, Bracken, Mason, Lewis, Greenup, and Carter Counties

Item No. N/A

Prepared for:

Kentucky Transportation Cabinet

Prepared by:

HMB Professional Engineers

December 2020

Table of Contents

INTRODUCTION AND STUDY AREA 1
EXISTING TRAFFIC VOLUMES 3
FUTURE TRAFFIC VOLUMES 10
DESIGN FACTORS 17
TRUCK VOLUMES 17
POPULATION 20

Table of Figures

Figure 1. Study Area 2
Figure 2. Pendleton and Bracken County Count Stations and 2020 Mainline Volumes 4
Figure 3. Mason County Count Stations and 2020 Mainline Volumes 5
Figure 4. Lewis County (KY 9) Count Stations and 2020 Mainline Volumes 6
Figure 5. Lewis (KY 10) and Greenup County Count Stations and 2020 Mainline Volumes 7
Figure 6. Carter County Count Stations and 2020 Mainline Volumes 8
Figure 7. Pendleton and Bracken County 2045 Mainline Volumes 12
Figure 8. Mason County 2045 Mainline Volumes 13
Figure 9. Lewis County (KY 9) 2045 Mainline Volumes 14
Figure 10. Lewis (KY 10) and Greenup County 2045 Mainline Volumes 15
Figure 11. Carter County 2045 Mainline Volumes 16

Table of Tables

Table 1. Count Stations and AADT Volumes 3
Table 2. Intersection Turning Movement Count Locations 9
Table 3. Historical Growth by Count Station 11
Table 4. Design Factors 18
Table 5. Truck Volumes Mainline Segments 19
Table 6. Historical Population Growth 20
Table 7. Population Forecasts 20

Appendices

Appendix A: Count Data
Appendix B: 2020 Turning Movement Forecasts
Appendix C: 2045 Turning Movement Forecasts

COMMONLY USED ABBREVIATIONS

AADT	Average Annual Daily Traffic	Adjusted for seasonal and monthly factors
AADTT	Average Annual Daily Truck Traffic	Total truck volume for a year
DHV	Design Hour Volume	30th highest hour of a year
%T	Truck Percentage	Percentage of trucks to total volume
FC	Functional Class	Street or highway's group based on service
GR	Growth Rate	Calculated value to estimate future volumes
PHF	Peak Hour Factor	Considers 15 min. spike in an hourly count
K-Factor	30th Highest Hour Factor	DHV divided by ADT (DHV/ADT)
D-Factor	Directional Factor	Percentage of dominant flow to total
MP	Mile Point	Miles increase easterly and northerly
ATR	Automatic Traffic Recorder	Permanent and continuous recording station
KYSTM	Kentucky Statewide Model	Computerized representation of KY roads

INTRODUCTION AND STUDY AREA

The AA Highway Improvements Study was initiated by the Kentucky Transportation Cabinet (KYTC) through the 2018 – 2020 Statewide Planning Services Contract to identify and evaluate potential improvement concepts to improve overall safety and operational performance of the AA Highway (KY 9 / KY 10). Through the application of a data-driven safety and operations analysis, potential improvement concepts will be identified, evaluated, and prioritized to complete a comprehensive transportation improvement plan for the corridor. The study area incorporates KY 9 from the Campbell / Pendleton County line to Grayson (KY 1), and KY 10 from Vanceburg to US 23 in Greenup County (total of approximately 120 miles). The study area is presented in **Figure 1**.

The current project phase is a scoping study. Traffic impacts will be evaluated for the existing conditions (2020) and future year (2045). No distinction is made between No Build and Build volumes for the mainline forecasts as differences are not expected to alter design decisions. For reference, the Design Year was determined to be 2045 per guidance from the scoping meeting (September 20, 2019 scoping meeting).

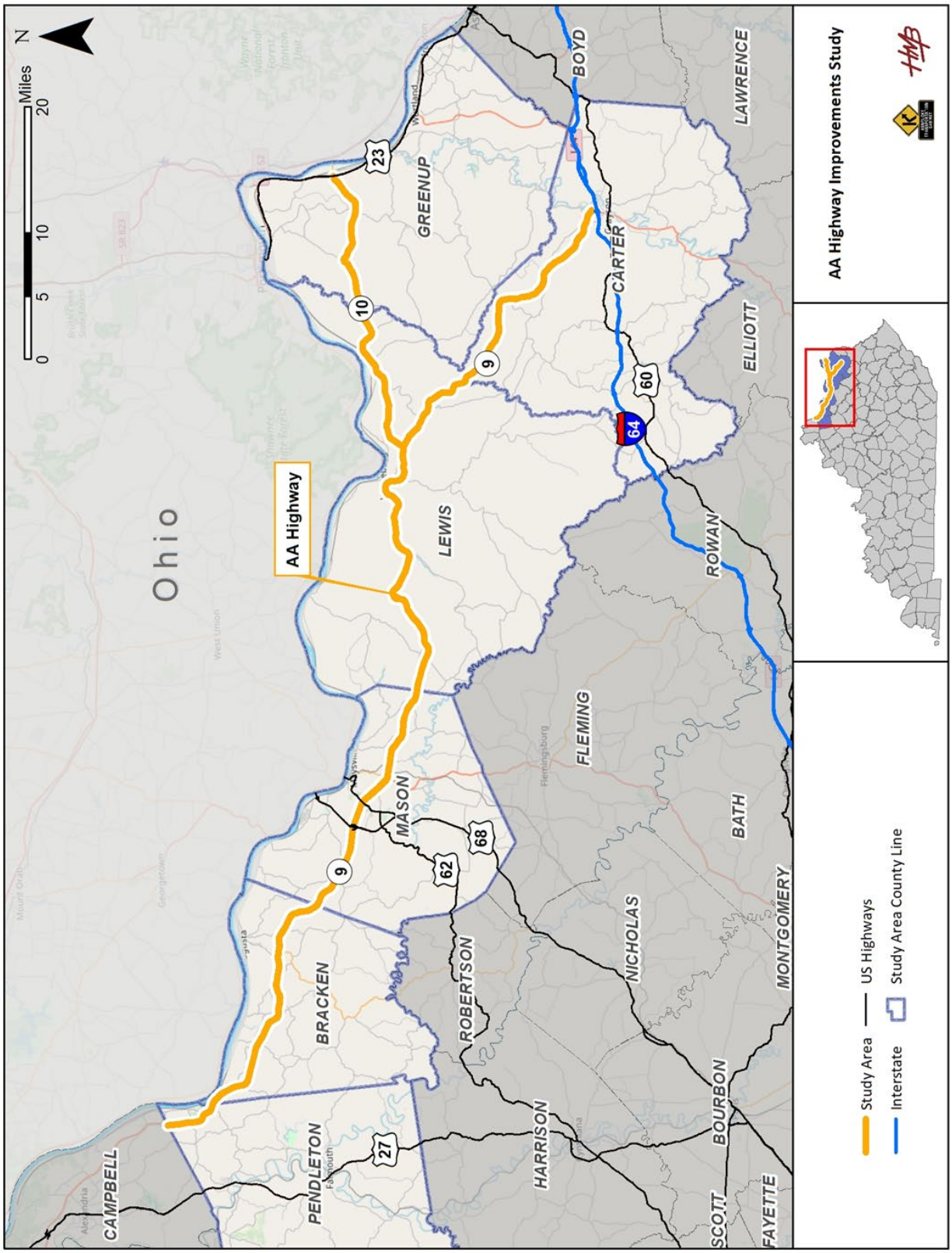
This document summarizes the AA Highway traffic forecast procedure and presents the following types of forecasts:

- 2020 AADT and DHV
- 2045 AADT and DHV
- 2020 / 2045 AADTT
- Select Intersection 2020 / 2045 AM and PM Turning Movement Volumes

Forecasts were developed for the mainline segments initially. Following the existing conditions analysis and identification of potential improvement concept locations, specific intersections were identified for turning movement counts. The locations were chosen where there was need to evaluate concepts that would modify operations or capacity such as adding / modifying turn lanes and / or signal phasing / timing. For these intersections, Current (2020) and Future Year (2045) volumes were determined through the traffic forecasting process.

The following sections provide the information relative to the development and presentation of the traffic forecast numbers.

Figure 1. Study Area



EXISTING TRAFFIC VOLUMES

The most recent AADT volumes on the mainline of the AA Highway (KY 9 and KY 10) in the study area were obtained from the KYTC traffic count reporting system (CTS). The segment, station numbers, mile points, last year of count, and traffic volumes (AADT) are shown in **Table 1. Figures 2** through **6** show the forecasted 2020 AADT, truck traffic volumes (AADTT), and design hourly volumes (DHV).

Table 1. Count Stations and AADT Volumes

Segment No.	County	Route	Station ID	Begin MP	End MP	Last Year of Count	AADT
30	Pendleton	KY 9	096009	4.339	0.000	2014	7,610
29	Bracken	KY 9	012793	19.857	13.585	2017	7,160
28	Bracken	KY 9	012802	13.585	10.259	2016	6,320
27	Bracken	KY 9	012788	10.259	5.546	2017	5,460
26	Bracken	KY 9	012003	5.546	0.000	2018	6,180
25	Mason	KY 9	012003	19.541	19.293	2018	6,180
24	Mason	KY 9	081792	19.293	17.049	2016	5,700
23	Mason	KY 9	081789	17.049	16.179	2018	6,340
22	Mason	KY 9	081782	16.179	15.754	2013	8,570
21	Mason	KY 9	081797	15.754	12.395	2015	8,960
20	Mason	KY 9	081038	12.395	10.744	2018	12,310
19	Mason	KY 9	081A85	10.744	10.256	2017	13,720
18	Mason	KY 9	081A96	10.256	8.969	2016	13,130
17	Mason	KY 9	081004	8.969	7.560	2017	11,810
16	Mason	KY 9	081007	7.560	3.781	2017	8,070
15	Mason	KY 9	081009	3.781	0.000	2016	5,950
14	Lewis	KY 9	068829	31.218	28.380	2017	4,970
13	Lewis	KY 9	068830	28.380	24.256	2018	4,860
12	Lewis	KY 9	068809	24.256	18.553	2016	5,420
11	Lewis	KY 9	068P52	18.553	14.565	2018	5,790
10	Lewis	KY 9	068331	14.565	13.049	2018	6,110
9	Lewis	KY 9	068042	13.049	11.205	2017	4,940
8	Lewis	KY 9	068038	11.205	8.048	2016	5,020
7	Lewis	KY 9	068005	8.048	4.637	2018	2,280
6	Lewis	KY 9	068043	4.637	0.000	2016	2,300
5	Carter	KY 9	022777	18.262	12.821	2016	2,210
4	Carter	KY 9	022791	12.821	11.324	2014	3,090
3	Carter	KY 9	022046	11.324	5.486	2017	3,100
2	Carter	KY 9	022045	5.486	1.078	2016	3,930
1	Carter	KY 9	022044	1.078	0.000	2018	4,530
31	Lewis	KY 10	068045	6.788	8.680	2016	2,500
32	Lewis	KY 10	068039	8.680	12.086	2016	2,560
33	Lewis	KY 10	068040	12.086	15.192	2017	4,510
34	Lewis	KY 10	068046	15.192	17.398	2018	1,330
35	Lewis	KY 10	068041	17.398	19.834	2018	1,120
36	Greenup	KY 10	068041	0.000	0.551	2018	1,120
37	Greenup	KY 10	045783	0.551	3.875	2017	1,350
38	Greenup	KY 10	045759	3.875	8.289	2018	1,760
9	Greenup	KY 10	045034	8.289	11.582	2016	2,860

Figure 2. Pendleton and Bracken County Count Stations and 2020 Mainline Volumes

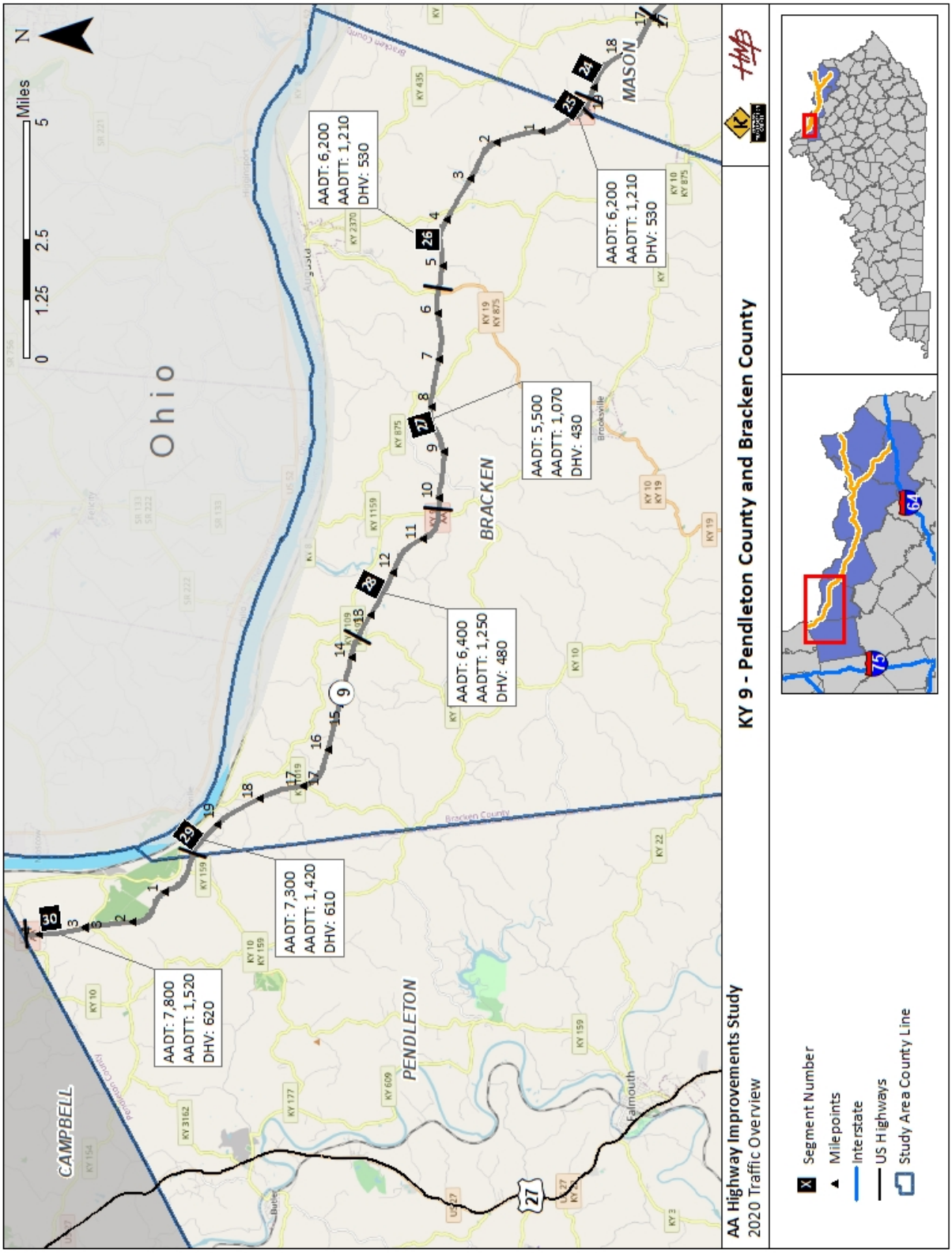


Figure 3. Mason County Count Stations and 2020 Mainline Volumes

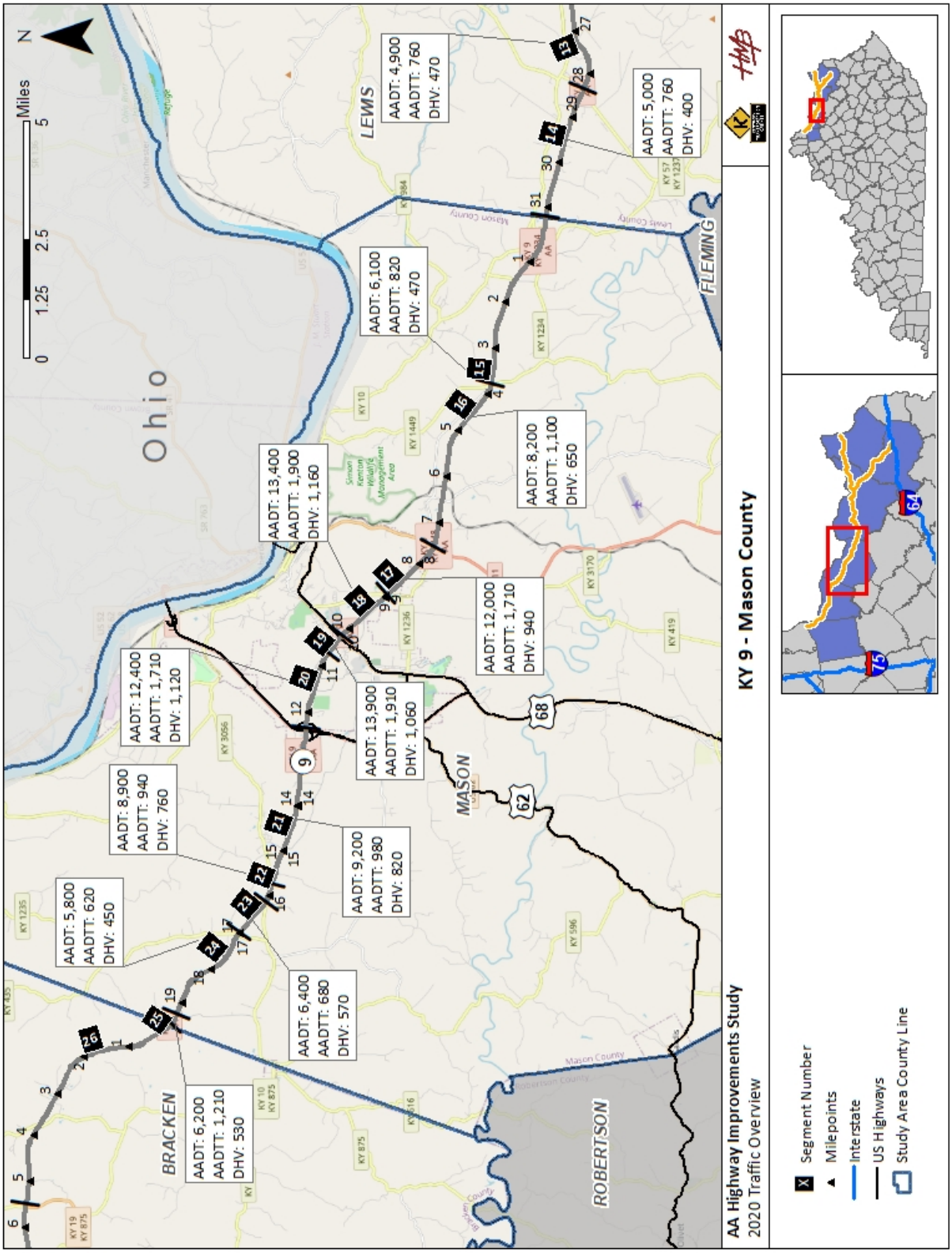


Figure 4. Lewis County (KY 9) Count Stations and 2020 Mainline Volumes

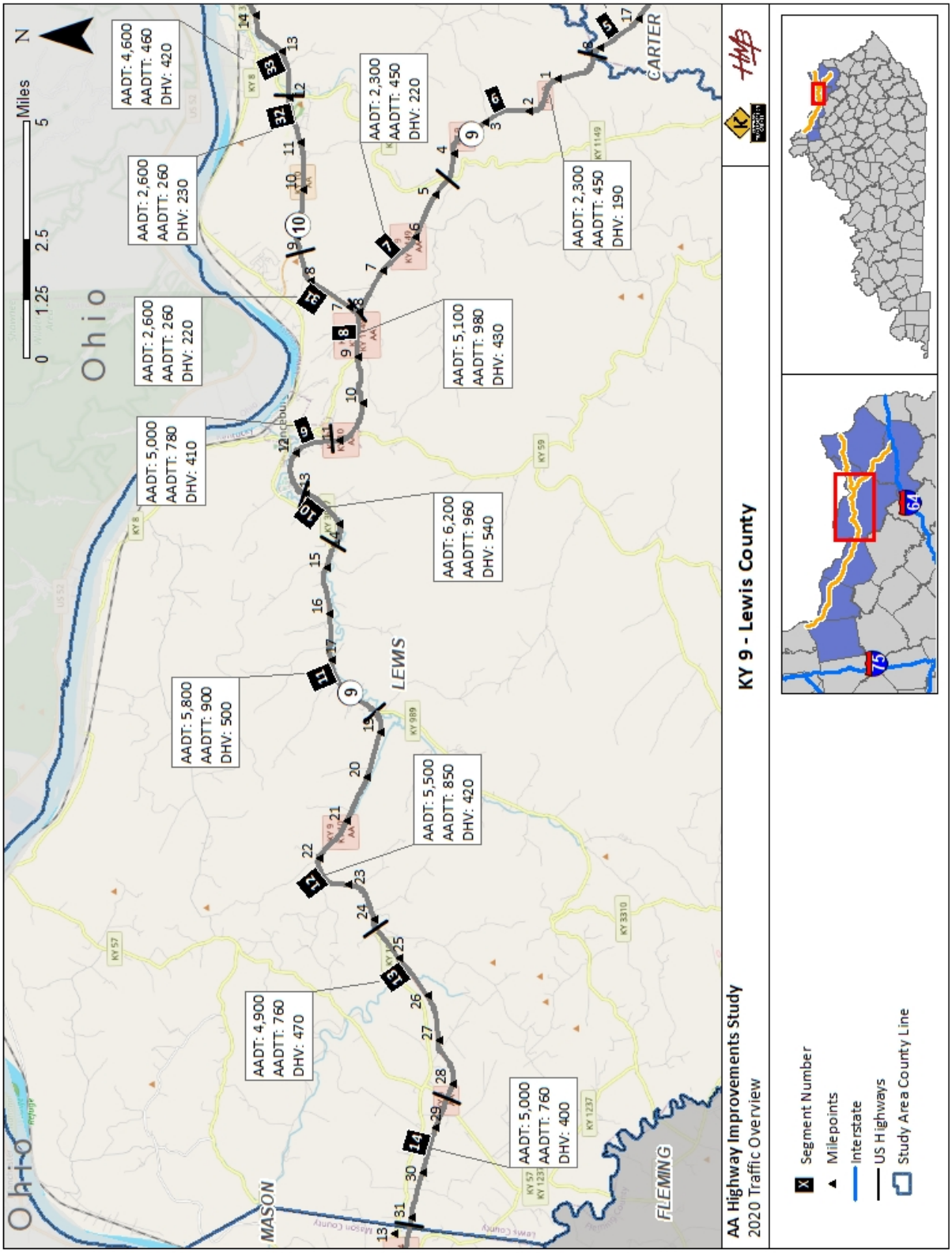


Figure 5. Lewis (KY 10) and Greenup County Count Stations and 2020 Mainline Volumes

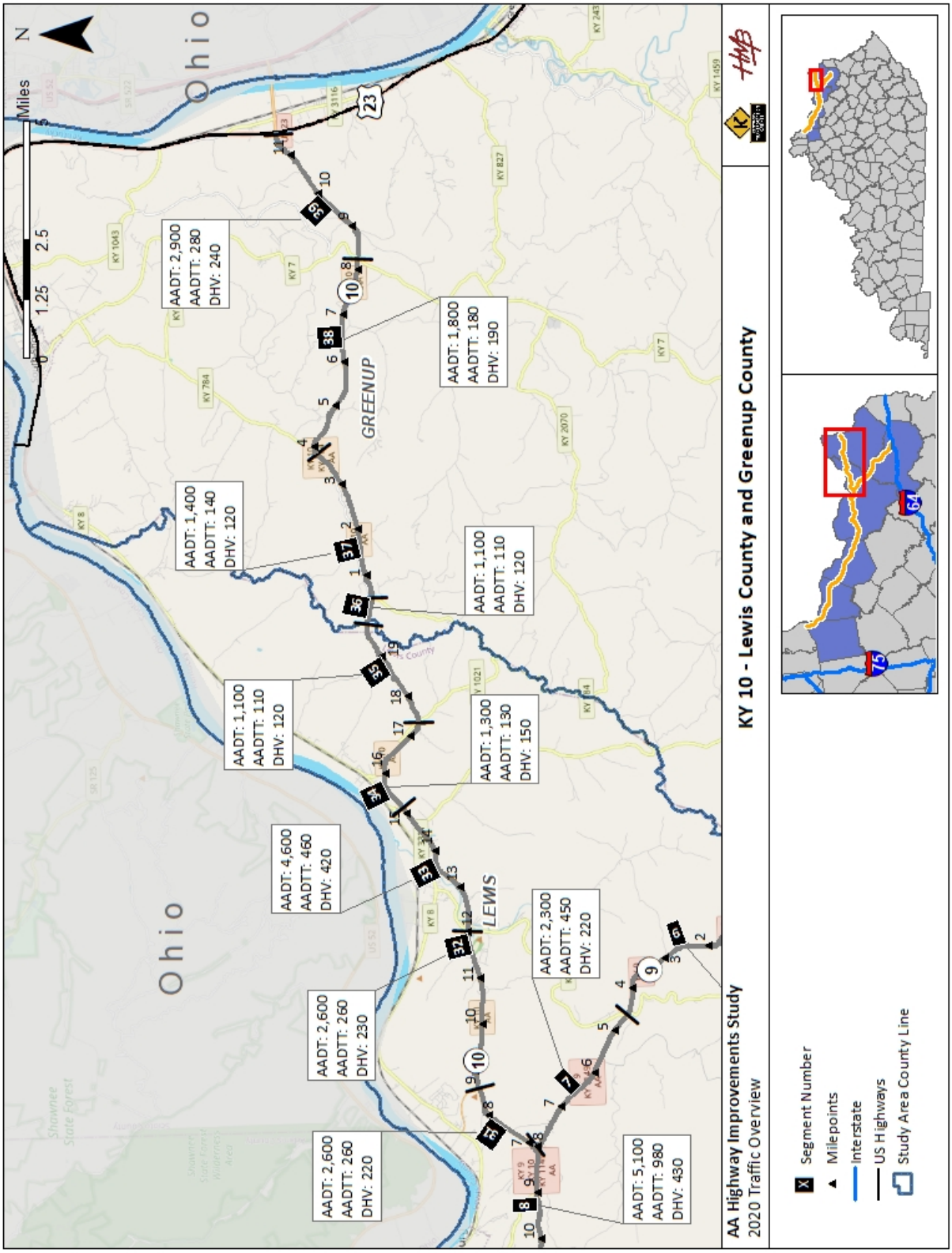
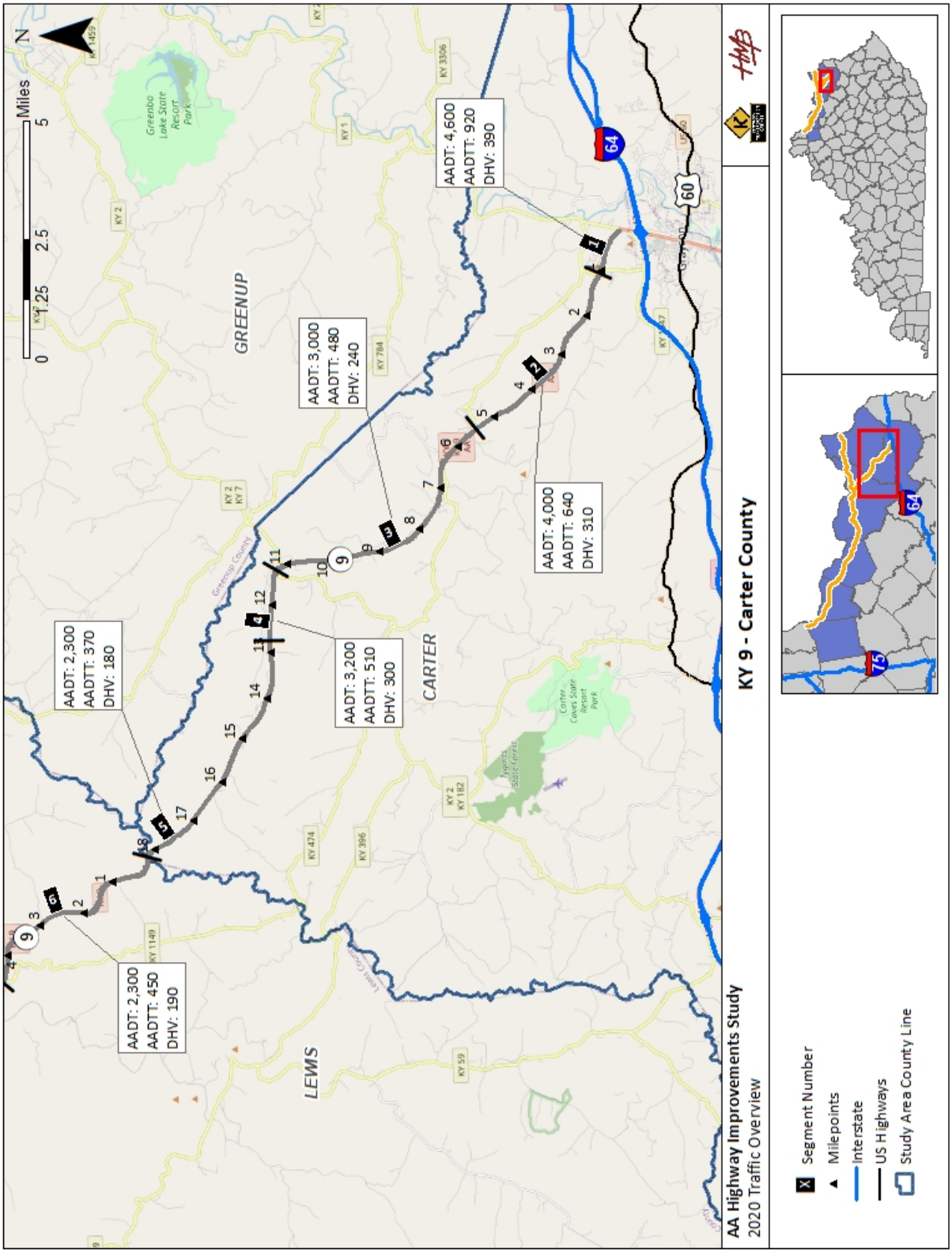


Figure 6. Carter County Count Stations and 2020 Mainline Volumes



Peak period (AM / PM) turning movement counts were conducted at locations where turn lanes / capacity changes may be considered. **Table 2** displays information about the counts. Counts were conducted for the peak hours only (7:00-9:00 AM and 3:00-6:00 PM) except for Clarkson Sherman Road due to the alternative peak hour of the operation of the landfill (6:45-9:00 AM and 2:30-4:30 PM). All counts were conducted prior to shelter-in-place orders resulting from the COVID-19 pandemic except for the intersections of KY 9/ Clarkson Sherman Road and KY 9 / KY 59. At the KY 9 / Clarkson Sherman Road intersection, the focus of the data collection was to determine the amount of turning truck traffic to the nearby landfill. Based on previous knowledge for the intersection, it was observed by KYTC that the volumes were lower than expected and the peak hour may have not been captured. Therefore, a re-count was determined to likely be needed in the future. The KY 9 / KY 59 intersection was to be counted by KYTC District 9 the week after the shelter-in-place orders and therefore was not able to be counted. However, the intersection was counted in 2015 for a previous study.

Table 2. Intersection Turning Movement Count Locations

Route	County	Mile Point	Intersecting Road	Date of Count
KY 9	Bracken	19.805	Iler Road	Tuesday, March 3, 2020
KY 9	Bracken	17.878	Holts Creek Road	Tuesday, March 3, 2020
KY 9	Bracken	15.687	Eden Ridge Road	Wednesday, March 4, 2020
KY 9	Bracken	7.751	Mt. Zion Road	Wednesday, March 4, 2020
KY 9	Mason	12.620	Downing Drive	Tuesday, March 10, 2020
KY 9	Mason	10.860	Kenton Station Drive	Tuesday, March 10, 2020
KY 9	Mason	10.256	US 62	Tuesday, March 10, 2020
KY 9	Mason	9.992	Market Square Drive	Tuesday, March 10, 2020
KY 9	Mason	9.610	Tucker Drive	Tuesday, March 10, 2020
KY 9	Mason	9.435	Walmart Way Entrance No. 1	Tuesday, March 10, 2020
KY 9	Mason	9.274	Walmart Way Entrance No. 2	Tuesday, March 10, 2020
KY 9	Mason	7.560	KY 11	Thursday, March 5, 2020
KY 9	Mason	4.740	Clarkson Sherman Road	Monday, March 16, 2020
KY 9	Lewis	11.205	KY 59 / Fairlane Drive	2015 – Planning Study
KY 9	Carter	6.498	KY 7 (North)	Thursday, March 12, 2020
KY 9	Carter	5.486	KY 7 (South)	Thursday, March 12, 2020
KY 9	Carter	1.078	KY 1959	Tuesday, March 10, 2020

Raw count data collected for this study is included in **Appendix A** for reference. The factored and balanced volumes are included in **Appendix B**.

FUTURE TRAFFIC VOLUMES

Design Year

The Design Year for a construction project is typically 20 years beyond the project's opening date per AASHTO's "A Policy on Design Standards – Interstate System". Given the uncertainty of funding and the construction schedule, a design year of 2045 was agreed upon by the Project Team at the initial scoping meeting.

Growth Rate / Model Output

Initial forecasting efforts relied upon historic traffic count data from CTS. The resulting historical growth rate is shown by count station in **Table 3**. Highlighted values in green show stations with positive growth. KYTC also provided data from the KYTC Traffic Forecasting Tool (TFT) which uses the Kentucky Statewide Traffic Model (KYSTM) base and future output values to obtain growth rates. From the count stations provided, KYTC provided a range of growth between 0.2 and 0.5 percent per year. While most count stations show historically negative growth, a select link analysis (procedure to show where traffic comes from and goes to) from the KYSTM shows there are trips that use the AA Highway and travel to neighboring states. Therefore, the AA Highway acts as a regional connector, not just local trips. With this additional information, a growth rate of 0.5% per year was agreed upon with KYTC.

2045 Traffic Volumes

The resulting 2045 segment volumes are provided on **Figure 7** through **Figure 11**. The figures include DHV along with AADT and AADTT for mainline segments.

For the intersections counted as part of the improvement analysis, the resulting 2045 forecasted turning movement counts are included in **Appendix C.**

Table 3. Historical Growth by Count Station

Segment No.	Station ID	County	Roadway	Begin MP	End MP	Historical Growth Rate
1	022044	CARTER	KY 9	0.000	1.078	-2.0%
2	022045	CARTER	KY 9	1.078	5.486	-2.7%
3	022046	CARTER	KY 9	5.486	11.324	-2.1%
4	022791	CARTER	KY 9	11.324	12.821	-3.0%
5	022777	CARTER	KY 9	12.821	18.262	-3.5%
6	068043	LEWIS	KY 9	0.000	4.637	-3.0%
7	068005	LEWIS	KY 9	4.637	8.048	-3.8%
8	068038	LEWIS	KY 9	8.048	11.205	-2.3%
9	068042	LEWIS	KY 9	11.205	13.049	-2.2%
10	068331	LEWIS	KY 9	13.049	14.565	0.8%
11	068P52	LEWIS	KY 9	14.565	18.553	-0.8%
12	068809	LEWIS	KY 9	18.553	24.256	0.5%
13	068830	LEWIS	KY 9	24.256	28.380	-0.4%
14	068829	LEWIS	KY 9	28.380	31.218	-1.1%
15	081009	MASON	KY 9	0.000	3.781	-1.8%
16	081007	MASON	KY 9	3.781	7.560	-0.8%
17	081004	MASON	KY 9	7.560	8.969	-0.7%
18	081A96	MASON	KY 9	8.969	10.256	-1.7%
19	081A85	MASON	KY 9	10.256	10.744	-1.7%
20	081038	MASON	KY 9	10.744	12.395	-0.7%
21	081797	MASON	KY 9	12.395	15.754	-1.8%
22	081782	MASON	KY 9	15.754	16.179	-1.2%
23	081789	MASON	KY 9	16.179	17.049	-1.3%
24	081792	MASON	KY 9	17.049	19.293	-0.5%
25	012003	MASON	KY 9	19.293	19.541	-0.4%
26	012003	BRACKEN	KY 9	0.000	5.546	-0.3%
27	012788	BRACKEN	KY 9	5.546	10.259	-1.3%
28	012802	BRACKEN	KY 9	10.259	13.585	-1.1%
29	012793	BRACKEN	KY 9	13.585	19.857	-1.2%
30	096009	PENDLETON	KY 9	0.000	4.339	-1.7%
31	068045	LEWIS	KY 10	6.788	8.680	-1.1%
32	068039	LEWIS	KY 10	8.680	12.086	-0.8%
33	068040	LEWIS	KY 10	12.086	15.192	1.2%
34	068046	LEWIS	KY 10	15.192	17.398	-3.1
35	068041	LEWIS	KY 10	17.398	19.834	-0.9%
36	068041	GREENUP	KY 10	0.000	0.551	-0.9%
37	045783	GREENUP	KY 10	0.551	3.875	-2.0%
38	045759	GREENUP	KY 10	3.875	8.289	-0.4%
39	045034	GREENUP	KY 10	8.289	11.582	-0.9%

Figure 7. Pendleton and Bracken County 2045 Mainline Volumes

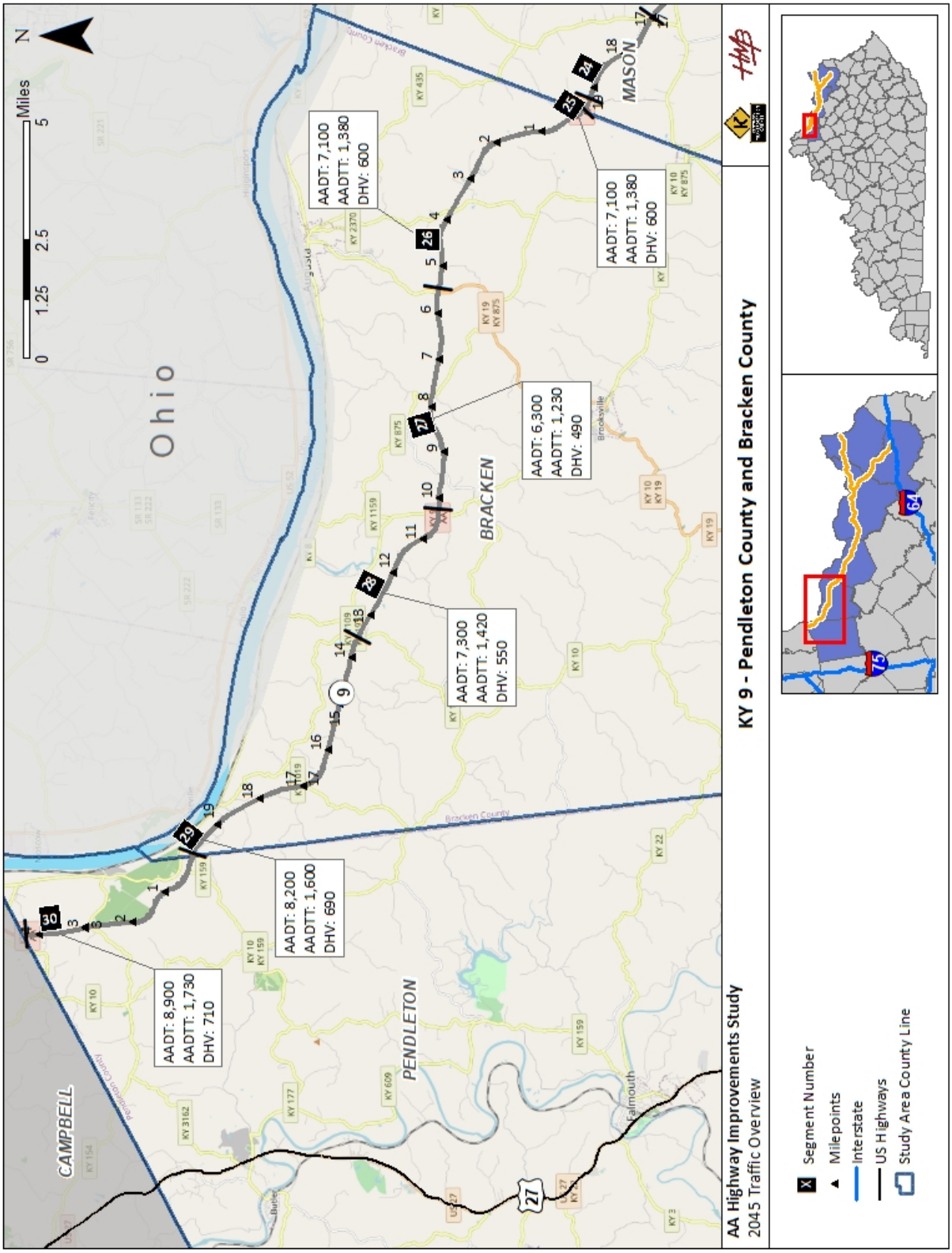


Figure 8. Mason County 2045 Mainline Volumes

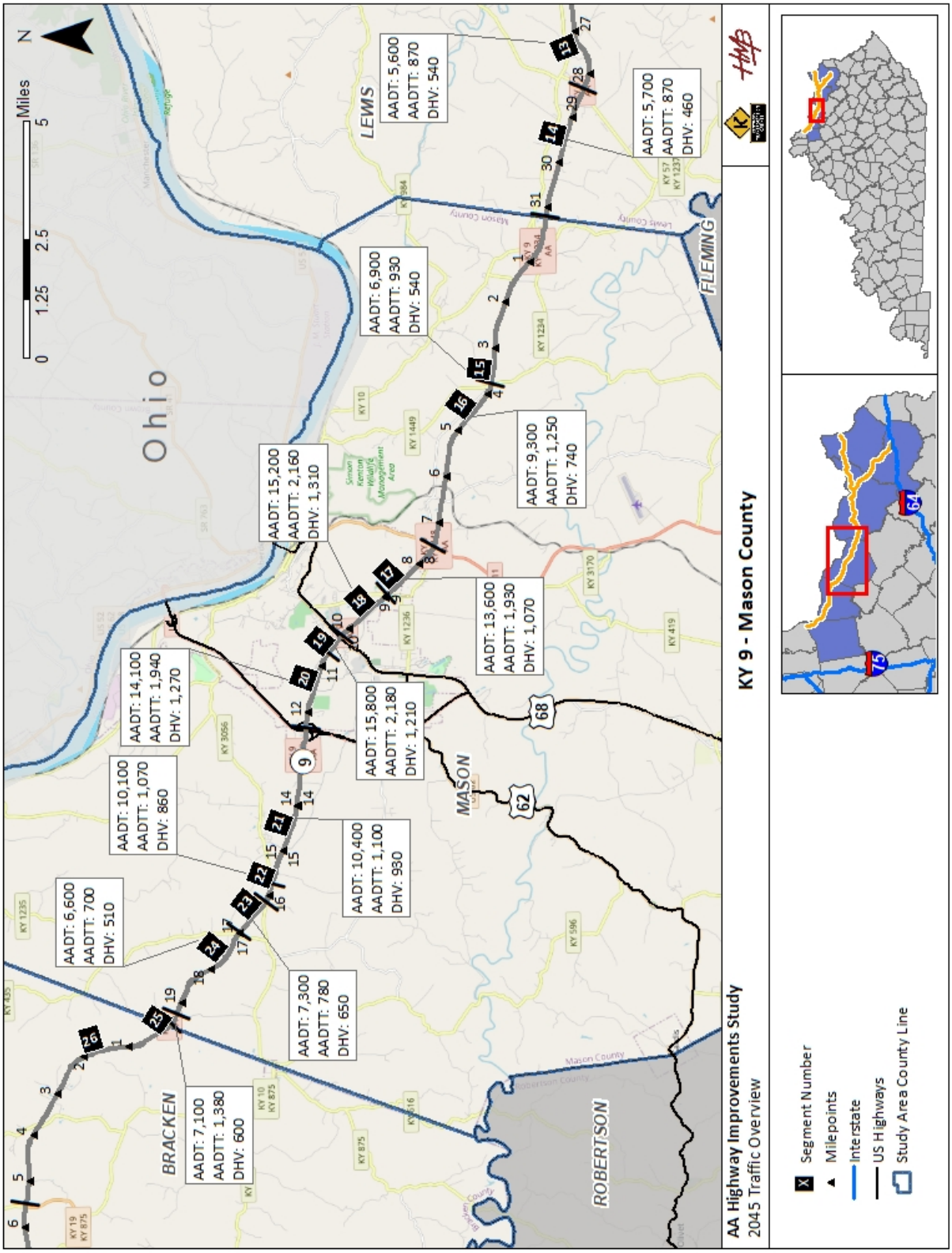


Figure 9. Lewis County (KY 9) 2045 Mainline Volumes

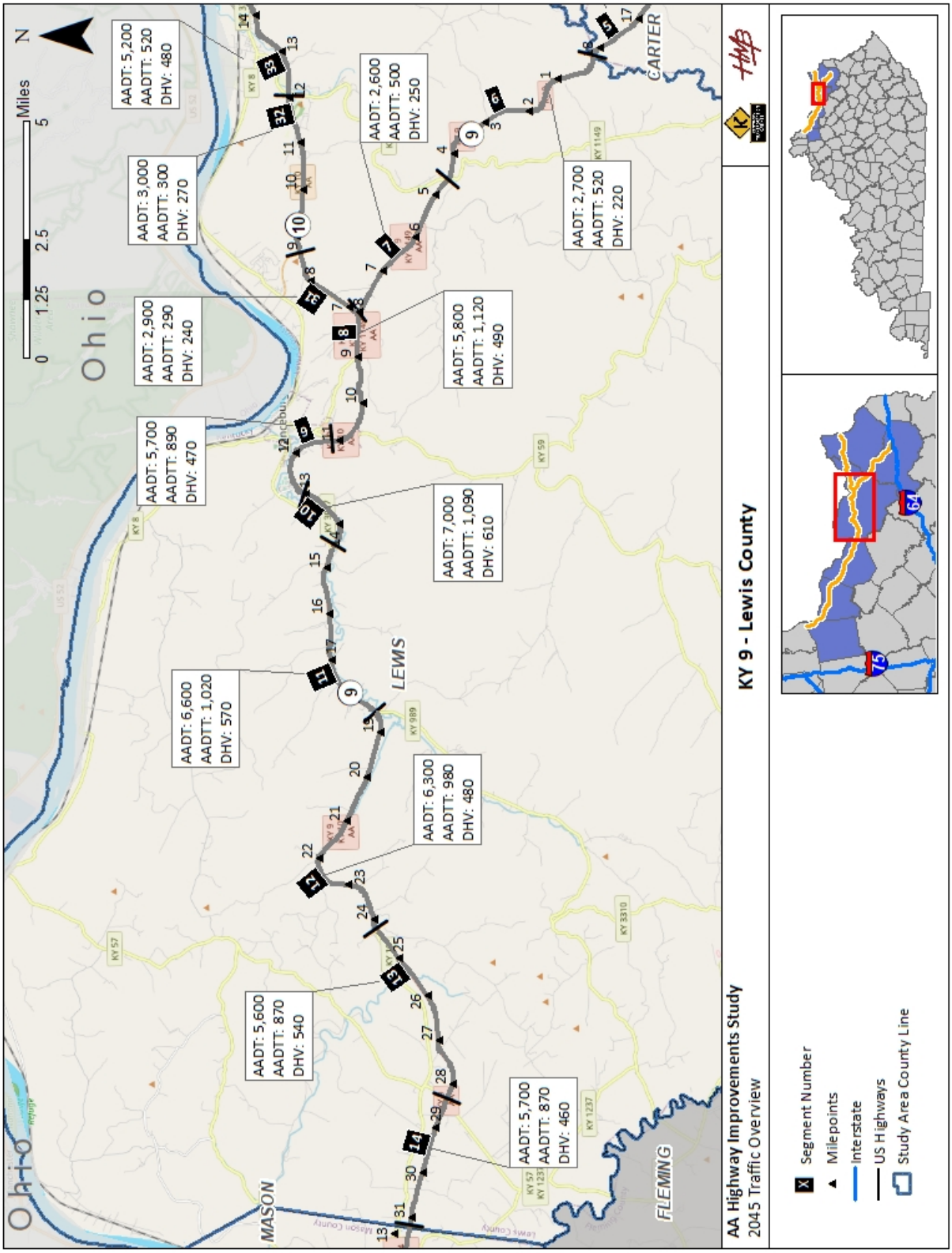


Figure 10. Lewis (KY 10) and Greenup County 2045 Mainline Volumes

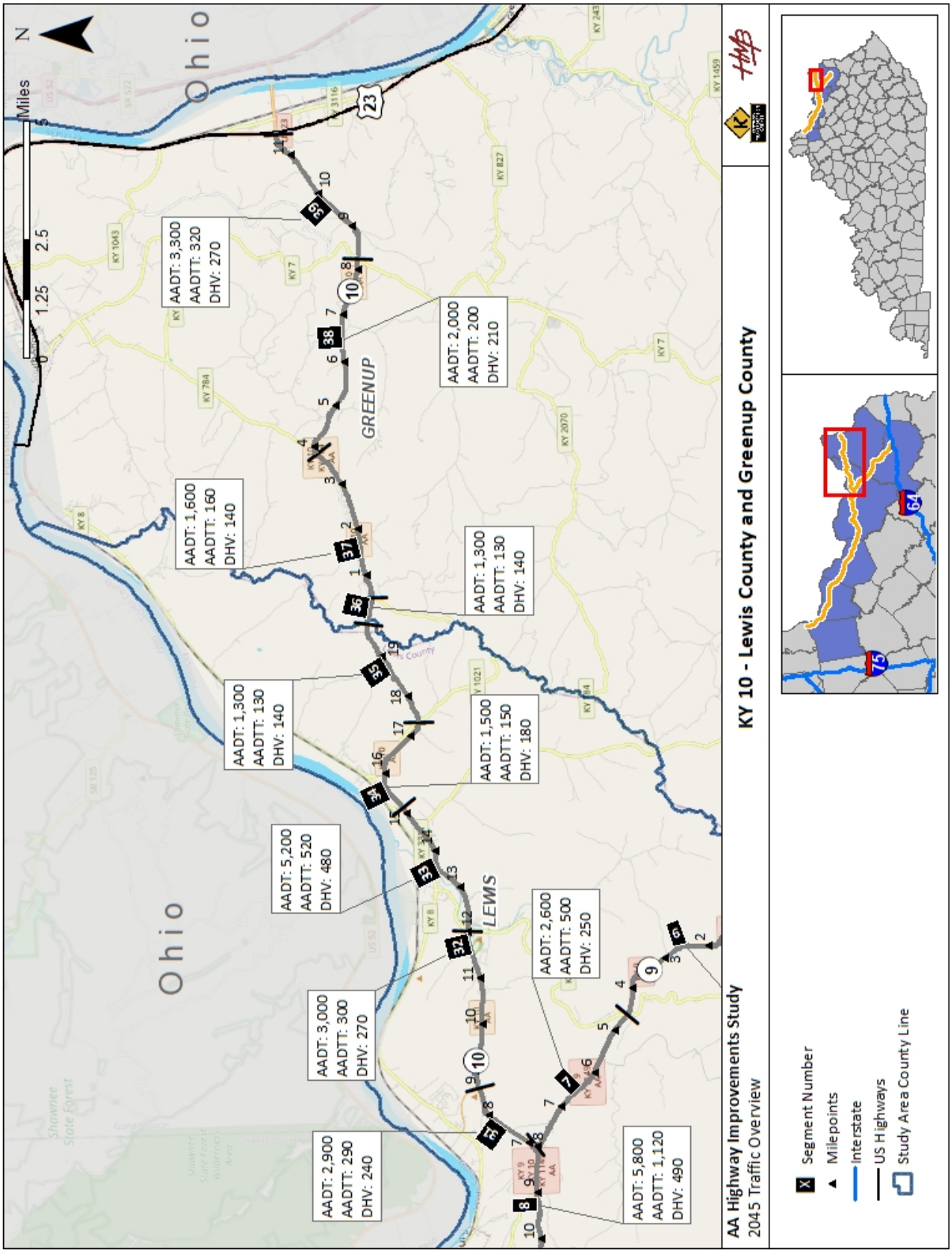
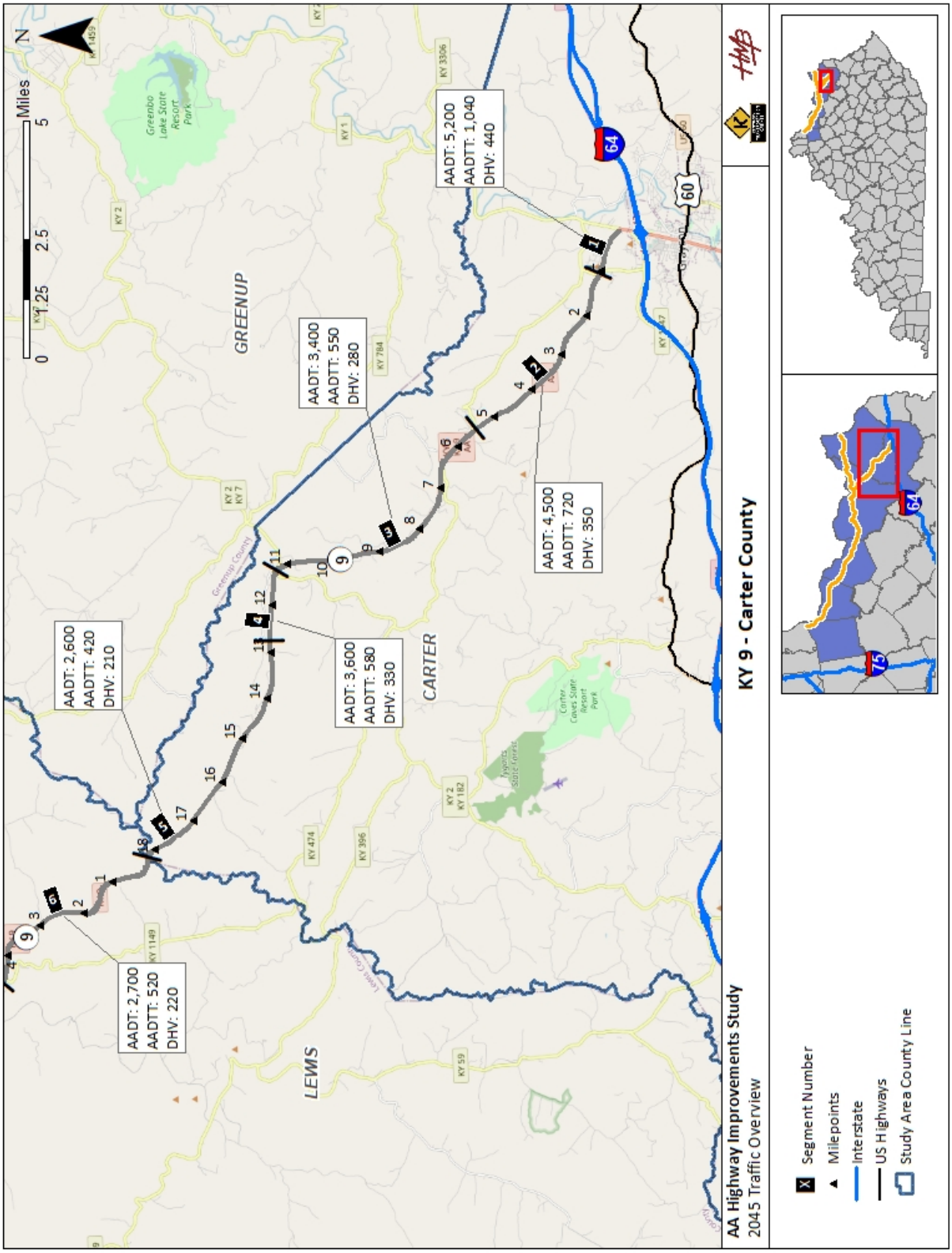


Figure 11. Carter County 2045 Mainline Volumes



DESIGN FACTORS

K-Factor

Hourly factors were calculated from the count data collected for the project mainline segments. Specific factors per each segment are included in **Table 4**.

D-Factor

Directional factors were calculated from the count data collected and shown by segment in **Table 4**.

TRUCK VOLUMES

Truck percentages and volumes were derived from count information available through the KYTC Traffic Count Reporting System and the KYTC Vehicle Classification spreadsheet.

The same growth rate used for overall traffic growth of 0.5 percent per year is recommended to be applied for the truck volumes. Truck volumes by mainline segment are listed in **Table 5**.

Table 4. Design Factors

Segment No.	Station ID	County	Roadway	Begin MP	End MP	K Factor	D-Factor
1	022044	CARTER	KY 9	0.000	1.078	8.4%	58%
2	022045	CARTER	KY 9	1.078	5.486	7.7%	53%
3	022046	CARTER	KY 9	5.486	11.324	8.0%	56%
4	022791	CARTER	KY 9	11.324	12.821	9.1%	58%
5	022777	CARTER	KY 9	12.821	18.262	7.7%	58%
6	068043	LEWIS	KY 9	0.000	4.637	7.9%	58%
7	068005	LEWIS	KY 9	4.637	8.048	9.3%	51%
8	068038	LEWIS	KY 9	8.048	11.205	8.3%	58%
9	068042	LEWIS	KY 9	11.205	13.049	8.1%	56%
10	068331	LEWIS	KY 9	13.049	14.565	8.6%	57%
11	068P52	LEWIS	KY 9	14.565	18.553	8.5%	52%
12	068809	LEWIS	KY 9	18.553	24.256	7.6%	58%
13	068830	LEWIS	KY 9	24.256	28.380	9.5%	57%
14	068829	LEWIS	KY 9	28.380	31.218	7.9%	56%
15	081009	MASON	KY 9	0.000	3.781	7.7%	59%
16	081007	MASON	KY 9	3.781	7.560	7.9%	56%
17	081004	MASON	KY 9	7.560	8.969	7.8%	56%
18	081A96	MASON	KY 9	8.969	10.256	8.6%	56%
19	081A85	MASON	KY 9	10.256	10.744	7.6%	51%
20	081038	MASON	KY 9	10.744	12.395	9.0%	58%
21	081797	MASON	KY 9	12.395	15.754	8.9%	54%
22	081782	MASON	KY 9	15.754	16.179	8.5%	55%
23	081789	MASON	KY 9	16.179	17.049	8.9%	57%
24	081792	MASON	KY 9	17.049	19.293	7.7%	58%
25	012003	MASON	KY 9	19.293	19.541	8.4%	57%
26	012003	BRACKEN	KY 9	0.000	5.546	8.4%	57%
27	012788	BRACKEN	KY 9	5.546	10.259	7.7%	56%
28	012802	BRACKEN	KY 9	10.259	13.585	7.4%	58%
29	012793	BRACKEN	KY 9	13.585	19.857	8.3%	67%
30	096009	PENDLETON	KY 9	0.000	4.339	7.9%	58%
31	068045	LEWIS	KY 10	6.788	8.680	8.2%	58%
32	068039	LEWIS	KY 10	8.680	12.086	8.8%	58%
33	068040	LEWIS	KY 10	12.086	15.192	9.1%	56%
34	068046	LEWIS	KY 10	15.192	17.398	11.4%	57%
35	068041	LEWIS	KY 10	17.398	19.834	10.7%	53%
36	068041	GREENUP	KY 10	0.000	0.551	10.7%	53%
37	045783	GREENUP	KY 10	0.551	3.875	8.2%	53%
38	045759	GREENUP	KY 10	3.875	8.289	10.4%	57%
39	045034	GREENUP	KY 10	8.289	11.582	8.1%	58%

Table 5. Truck Volumes Mainline Segments

Segment No.	Station ID	County	Roadway	Begin MP	End MP	Truck %	2020 Daily Truck Volume	2045 Daily Truck Volume
1	022044	CARTER	KY 9	0.000	1.078	19.874%	920	1,040
2	022045	CARTER	KY 9	1.078	5.486	15.923%	640	720
3	022046	CARTER	KY 9	5.486	11.324	15.923%	480	550
4	022791	CARTER	KY 9	11.324	12.821	15.923%	510	580
5	022777	CARTER	KY 9	12.821	18.262	15.923%	370	420
6	068043	LEWIS	KY 9	0.000	4.637	19.148%	450	520
7	068005	LEWIS	KY 9	4.637	8.048	19.148%	450	500
8	068038	LEWIS	KY 9	8.048	11.205	19.148%	980	1,120
9	068042	LEWIS	KY 9	11.205	13.049	15.451%	780	890
10	068331	LEWIS	KY 9	13.049	14.565	15.451%	960	1,090
11	068P52	LEWIS	KY 9	14.565	18.553	15.451%	900	1,020
12	068809	LEWIS	KY 9	18.553	24.256	15.451%	850	980
13	068830	LEWIS	KY 9	24.256	28.380	15.451%	760	870
14	068829	LEWIS	KY 9	28.380	31.218	15.151%	760	870
15	081009	MASON	KY 9	0.000	3.781	13.395%	820	930
16	081007	MASON	KY 9	3.781	7.560	13.395%	1,100	1,250
17	081004	MASON	KY 9	7.560	8.969	14.169%	1,710	1,930
18	081A96	MASON	KY 9	8.969	10.256	14.169%	1,900	2,160
19	081A85	MASON	KY 9	10.256	10.744	13.735%	1,910	2,180
20	081038	MASON	KY 9	10.744	12.395	13.735%	1,710	1,940
21	081797	MASON	KY 9	12.395	15.754	10.558%	980	1,100
22	081782	MASON	KY 9	15.754	16.179	10.558%	940	1,070
23	081789	MASON	KY 9	16.179	17.049	10.558%	680	780
24	081792	MASON	KY 9	17.049	19.293	10.558%	620	700
25	012003	MASON	KY 9	19.293	19.541	19.418%	1,210	1,380
26	012003	BRACKEN	KY 9	0.000	5.546	19.418%	1,210	1,380
27	012788	BRACKEN	KY 9	5.546	10.259	19.418%	1,070	1,230
28	012802	BRACKEN	KY 9	10.259	13.585	19.418%	1,250	1,420
29	012793	BRACKEN	KY 9	13.585	19.857	19.418%	1,420	1,600
30	096009	PENDLETON	KY 9	0.000	4.339	19.418%	1,520	1,730
31	068045	LEWIS	KY 10	6.788	8.680	9.869%	260	290
32	068039	LEWIS	KY 10	8.680	12.086	9.869%	260	300
33	068040	LEWIS	KY 10	12.086	15.192	9.869%	460	520
34	068046	LEWIS	KY 10	15.192	17.398	9.599%	130	150
35	068041	LEWIS	KY 10	17.398	19.834	9.711%	110	130
36	068041	GREENUP	KY 10	0.000	0.551	9.711%	110	130
37	045783	GREENUP	KY 10	0.551	3.875	9.599%	140	160
38	045759	GREENUP	KY 10	3.875	8.289	9.599%	180	200
39	045034	GREENUP	KY 10	8.289	11.582	9.599%	280	320

POPULATION

Population data was obtained from the Kentucky State Data Center for Kentucky and all six counties to assist with the determination of growth rates. **Table 6** provides historical population growth by decade. **Table 7** displays population projections by decade.

Table 6. Historical Population Growth

Area	2000	2010	% Growth (2000 – 2010)
Kentucky	4,041,769	4,339,367	7.4%
Pendleton County	14,390	14,877	3.4%
Bracken County	8,279	8,488	2.5%
Mason County	16,800	17,490	4.1%
Lewis County	14,092	13,870	-1.6%
Carter County	26,889	27,720	3.1%
Greenup County	36,891	36,910	0.1%

Source: Kentucky State Data Center (Vintage 2016)

Table 7. Population Forecasts

Area	2010 Census	2015 Estimate	2020 Projection	2030 Projection	2040 Projection	% Growth (2010 – 2040)
Kentucky	4,339,367	4,425,092	4,533,464	4,762,382	4,886,381	12.6%
Pendleton County	14,877	14,408	14,051	13,020	11,603	-22.0%
Bracken County	8,488	8,321	8,139	7,609	6,910	-18.6%
Mason County	17,490	17,099	17,106	16,941	16,448	-6.0%
Lewis County	13,870	13,682	13,434	12,690	11,721	-15.5%
Carter County	27,720	27,158	26,852	25,833	24,386	-12.0%
Greenup County	36,910	36,068	35,475	33,706	31,407	-14.9%

Source: Kentucky State Data Center (Vintage 2016)

Historically, population growth in all six counties is less than that for the state. Population forecasts show decreasing population numbers between 2010 and 2040 for all six counties.

TRAFFIC FORECAST REPORT

APPENDIX A:

COUNT DATA

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Turn Count Summary

Location: Mt. Zion Rd at AA Highway, Bracken County Ky.
GPS Coordinates: Lat=38.210032, Lon=-84.814381
Date: 2020-03-10
Day of week: Tuesday
Weather: Cloudy/rain
Analyst: Craig Howard

Total vehicle traffic

Interval starts	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
07:11	1	1	3	0	8	0	0	0	1	0	6	0	20
07:15	1	1	0	0	50	1	2	0	1	0	27	0	83
07:30	2	0	0	0	28	0	1	0	0	0	26	0	57
07:45	0	0	1	1	41	2	0	0	0	0	37	1	83
08:00	0	0	2	1	35	0	1	0	0	0	28	0	67
08:15	0	0	1	0	35	1	1	0	0	0	28	0	66
08:30	2	0	0	0	26	1	0	1	0	0	32	0	62
08:45	0	0	1	0	34	2	0	0	0	0	35	0	72
09:00	0	0	1	0	27	0	1	0	0	0	26	1	56

Car traffic

Interval starts	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
07:11	1	1	3	0	8	0	0	0	1	0	6	0	20
07:15	1	1	0	0	50	1	2	0	1	0	27	0	83
07:30	2	0	0	0	28	0	1	0	0	0	26	0	57
07:45	0	0	1	1	41	2	0	0	0	0	37	1	83
08:00	0	0	2	1	35	0	1	0	0	0	28	0	67
08:15	0	0	1	0	35	1	1	0	0	0	28	0	66
08:30	2	0	0	0	26	1	0	1	0	0	32	0	62
08:45	0	0	1	0	34	2	0	0	0	0	35	0	72
09:00	0	0	1	0	27	0	1	0	0	0	26	1	56

Truck traffic

Interval starts	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
07:11	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45	0	0	0	0	0	0	0	0	0	0	0	0	0
09:00	0	0	0	0	0	0	0	0	0	0	0	0	0

Pedestrian volumes

Interval starts	NE			NW			SW			SE			Total
	Left	Right	Total	Left	Right	Total	Left	Right	Total	Left	Right	Total	
07:11	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45	0	0	0	0	0	0	0	0	0	0	0	0	0
09:00	0	0	0	0	0	0	0	0	0	0	0	0	0

Intersection Peak Hour

07:15 - 08:15

	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Vehicle Total	3	1	3	2	154	3	4	0	1	0	118	1	290
Factor	0.38	0.25	0.38	0.50	0.77	0.38	0.50	0.00	0.25	0.00	0.80	0.25	0.87
Approach Factor	0.88			0.78			0.42			0.78			

Peak Hour Vehicle Summary

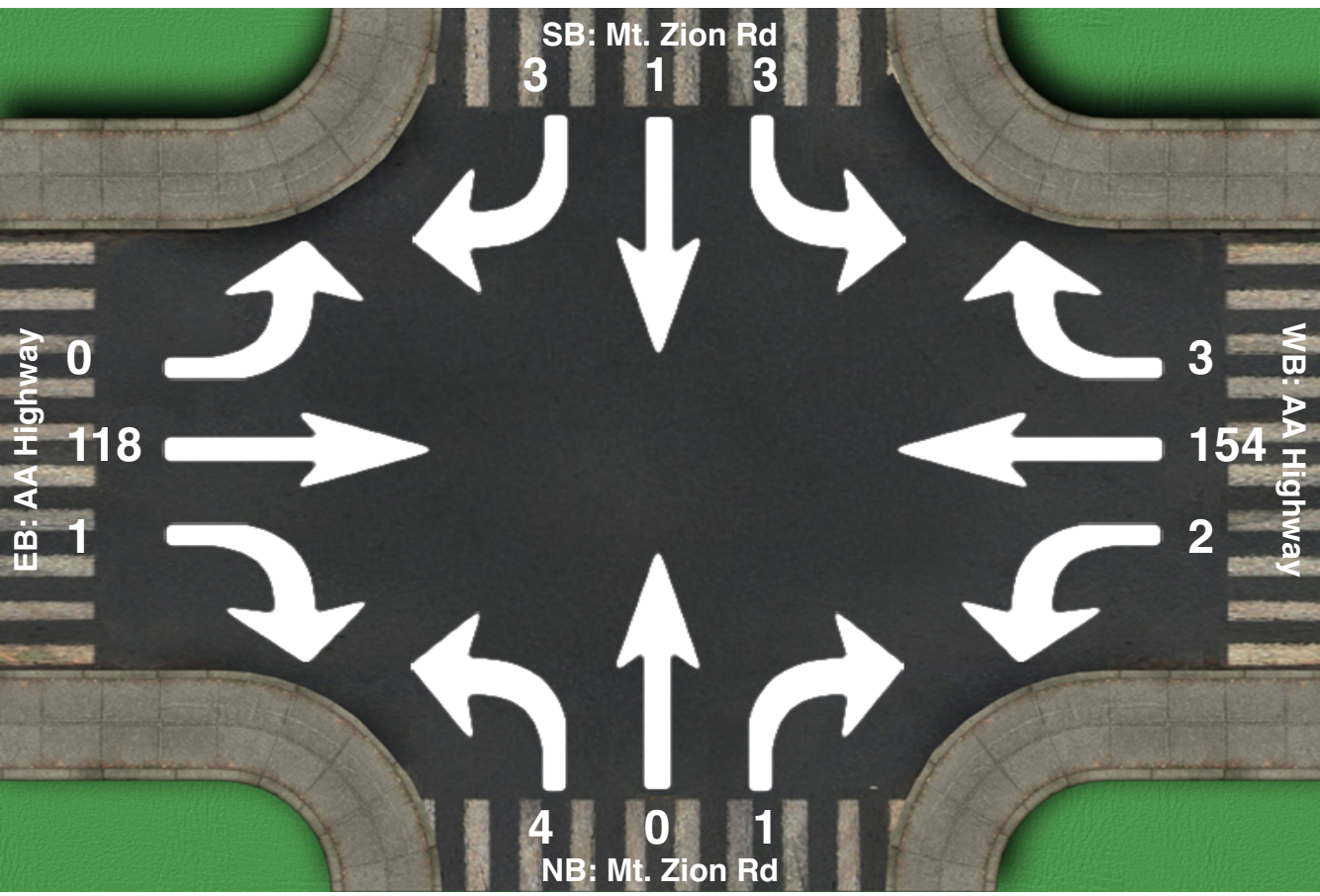
Vehicle	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Car	3	1	3	2	154	3	4	0	1	0	118	1	290
Truck	0	0	0	0	0	0	0	0	0	0	0	0	0

Peak Hour Pedestrians

	NE			NW			SW			SE			Total
	Left	Right	Total	Left	Right	Total	Left	Right	Total	Left	Right	Total	
Pedestrians	0	0	0	0	0	0	0	0	0	0	0	0	0

Intersection Peak Hour

Location: Mt. Zion Rd at AA Highway, Bracken County Ky.
GPS Coordinates: Lat=38.210032, Lon=-84.814381
Date: 2020-03-10
Day of week: Tuesday
Weather: Cloudy/rain
Analyst: Craig Howard



Intersection Peak Hour

07:15 - 08:15

	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Vehicle Total	3	1	3	2	154	3	4	0	1	0	118	1	290
Factor	0.38	0.25	0.38	0.50	0.77	0.38	0.50	0.00	0.25	0.00	0.80	0.25	0.87
Approach Factor	0.88			0.78			0.42			0.78			

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Turn Count Summary

Location: Mt. Zion Rd at AA Highway, Bracken County Ky.
GPS Coordinates: Lat=38.210032, Lon=-84.814381
Date: 2020-03-10
Day of week: Tuesday
Weather: Cloudy
Analyst: Craig Howard

Total vehicle traffic

Interval starts	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
16:00	1	0	0	0	45	2	0	4	1	0	72	0	125
16:15	1	1	2	1	41	1	1	1	1	3	63	1	117
16:30	0	2	0	1	35	2	0	2	0	0	70	0	112
16:45	0	2	0	2	23	1	0	0	0	2	62	1	93
17:00	1	0	0	0	34	1	0	1	1	1	67	3	109
17:15	0	3	0	0	39	0	1	2	1	1	47	2	96
17:30	0	1	0	0	30	0	0	1	0	1	62	0	95
17:45	0	0	1	2	31	1	0	0	0	1	51	0	87

Car traffic

Interval starts	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
16:00	1	0	0	0	45	2	0	4	1	0	72	0	125
16:15	1	1	2	1	41	1	1	1	1	3	63	1	117
16:30	0	2	0	1	35	2	0	2	0	0	70	0	112
16:45	0	2	0	2	23	1	0	0	0	2	62	1	93
17:00	1	0	0	0	34	1	0	1	1	1	67	3	109
17:15	0	3	0	0	39	0	1	2	1	1	47	2	96
17:30	0	1	0	0	30	0	0	1	0	1	62	0	95
17:45	0	0	1	2	31	1	0	0	0	1	51	0	87

Truck traffic

Interval starts	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
16:00	0	0	0	0	0	0	0	0	0	0	0	0	0
16:15	0	0	0	0	0	0	0	0	0	0	0	0	0
16:30	0	0	0	0	0	0	0	0	0	0	0	0	0
16:45	0	0	0	0	0	0	0	0	0	0	0	0	0
17:00	0	0	0	0	0	0	0	0	0	0	0	0	0
17:15	0	0	0	0	0	0	0	0	0	0	0	0	0
17:30	0	0	0	0	0	0	0	0	0	0	0	0	0
17:45	0	0	0	0	0	0	0	0	0	0	0	0	0

Pedestrian volumes

Interval starts	NE			NW			SW			SE			Total
	Left	Right	Total	Left	Right	Total	Left	Right	Total	Left	Right	Total	
16:00	0	0	0	0	0	0	0	0	0	0	0	0	0
16:15	0	0	0	0	0	0	0	0	0	0	0	0	0
16:30	0	0	0	0	0	0	0	0	0	0	0	0	0
16:45	0	0	0	0	0	0	0	0	0	0	0	0	0
17:00	0	0	0	0	0	0	0	0	0	0	0	0	0
17:15	0	0	0	0	0	0	0	0	0	0	0	0	0
17:30	0	0	0	0	0	0	0	0	0	0	0	0	0
17:45	0	0	0	0	0	0	0	0	0	0	0	0	0

Intersection Peak Hour

16:00 - 17:00

	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Vehicle Total	2	5	2	4	144	6	1	7	2	5	267	2	447
Factor	0.50	0.62	0.25	0.50	0.80	0.75	0.25	0.44	0.50	0.42	0.93	0.50	0.89
Approach Factor	0.56			0.82			0.50			0.95			

Peak Hour Vehicle Summary

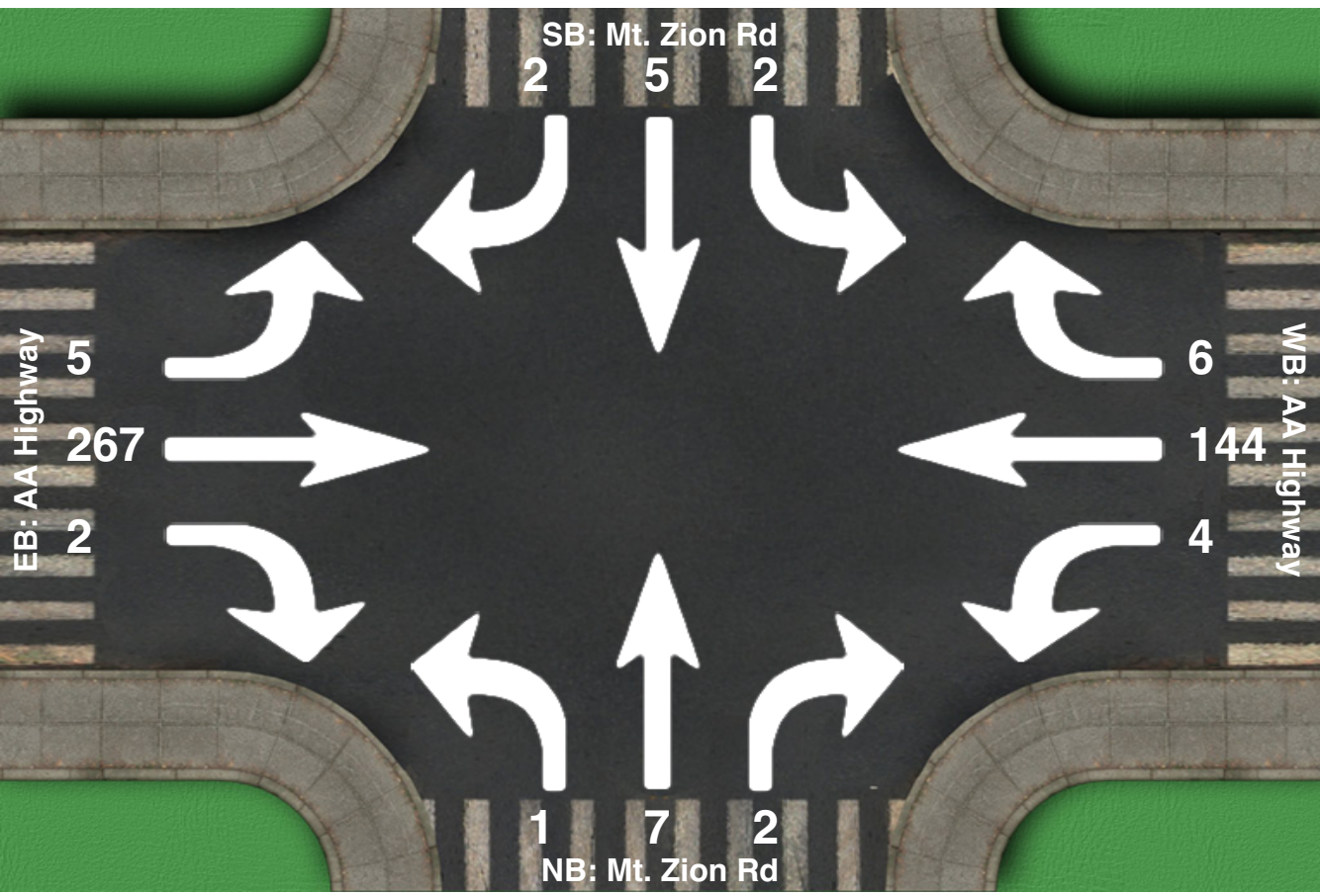
Vehicle	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Car	2	5	2	4	144	6	1	7	2	5	267	2	447
Truck	0	0	0	0	0	0	0	0	0	0	0	0	0

Peak Hour Pedestrians

	NE			NW			SW			SE			Total
	Left	Right	Total	Left	Right	Total	Left	Right	Total	Left	Right	Total	
Pedestrians	0	0	0	0	0	0	0	0	0	0	0	0	0

Intersection Peak Hour

Location: Mt. Zion Rd at AA Highway, Bracken County Ky.
GPS Coordinates: Lat=38.210032, Lon=-84.814381
Date: 2020-03-10
Day of week: Tuesday
Weather: Cloudy
Analyst: Craig Howard



Intersection Peak Hour

16:00 - 17:00

	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Vehicle Total	2	5	2	4	144	6	1	7	2	5	267	2	447
Factor	0.50	0.62	0.25	0.50	0.80	0.75	0.25	0.44	0.50	0.42	0.93	0.50	0.89
Approach Factor	0.56			0.82			0.50			0.95			

, ,

Turn Count Summary

Location: Eden Ridge at AA Highway, Bracken County Ky.
GPS Coordinates: Lat=38.210032, Lon=-84.814381
Date: 2020-03-11
Day of week: Wednesday
Weather: Cloudy
Analyst: Craig Howard

Total vehicle traffic

Interval starts	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
07:00	0	0	0	1	56	0	2	0	1	0	43	0	103
07:15	0	0	0	0	52	0	1	0	2	0	29	0	84
07:30	1	0	0	0	61	1	2	0	1	0	46	0	112
07:45	0	0	0	1	49	0	0	0	0	0	47	0	97
08:00	0	0	0	0	54	0	0	0	0	0	34	0	88
08:15	0	0	0	0	58	0	0	0	1	1	29	0	89
08:30	0	0	0	0	39	0	0	0	0	1	52	0	92
08:45	2	0	0	0	35	0	0	0	1	0	33	0	71

Car traffic

Interval starts	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
07:00	0	0	0	1	56	0	2	0	1	0	43	0	103
07:15	0	0	0	0	52	0	1	0	2	0	29	0	84
07:30	1	0	0	0	61	1	2	0	1	0	46	0	112
07:45	0	0	0	1	49	0	0	0	0	0	47	0	97
08:00	0	0	0	0	54	0	0	0	0	0	34	0	88
08:15	0	0	0	0	58	0	0	0	1	1	29	0	89
08:30	0	0	0	0	39	0	0	0	0	1	52	0	92
08:45	2	0	0	0	35	0	0	0	1	0	33	0	71

Truck traffic

Interval starts	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
07:00	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45	0	0	0	0	0	0	0	0	0	0	0	0	0

Pedestrian volumes

Interval starts	NE			NW			SW			SE			Total
	Left	Right	Total	Left	Right	Total	Left	Right	Total	Left	Right	Total	
07:00	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45	0	0	0	0	0	0	0	0	0	0	0	0	0

Intersection Peak Hour

07:00 - 08:00

	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Vehicle Total	1	0	0	2	218	1	5	0	4	0	165	0	396
Factor	0.25	0.00	0.00	0.50	0.89	0.25	0.62	0.00	0.50	0.00	0.88	0.00	0.88
Approach Factor	0.25			0.89			0.75			0.88			

Peak Hour Vehicle Summary

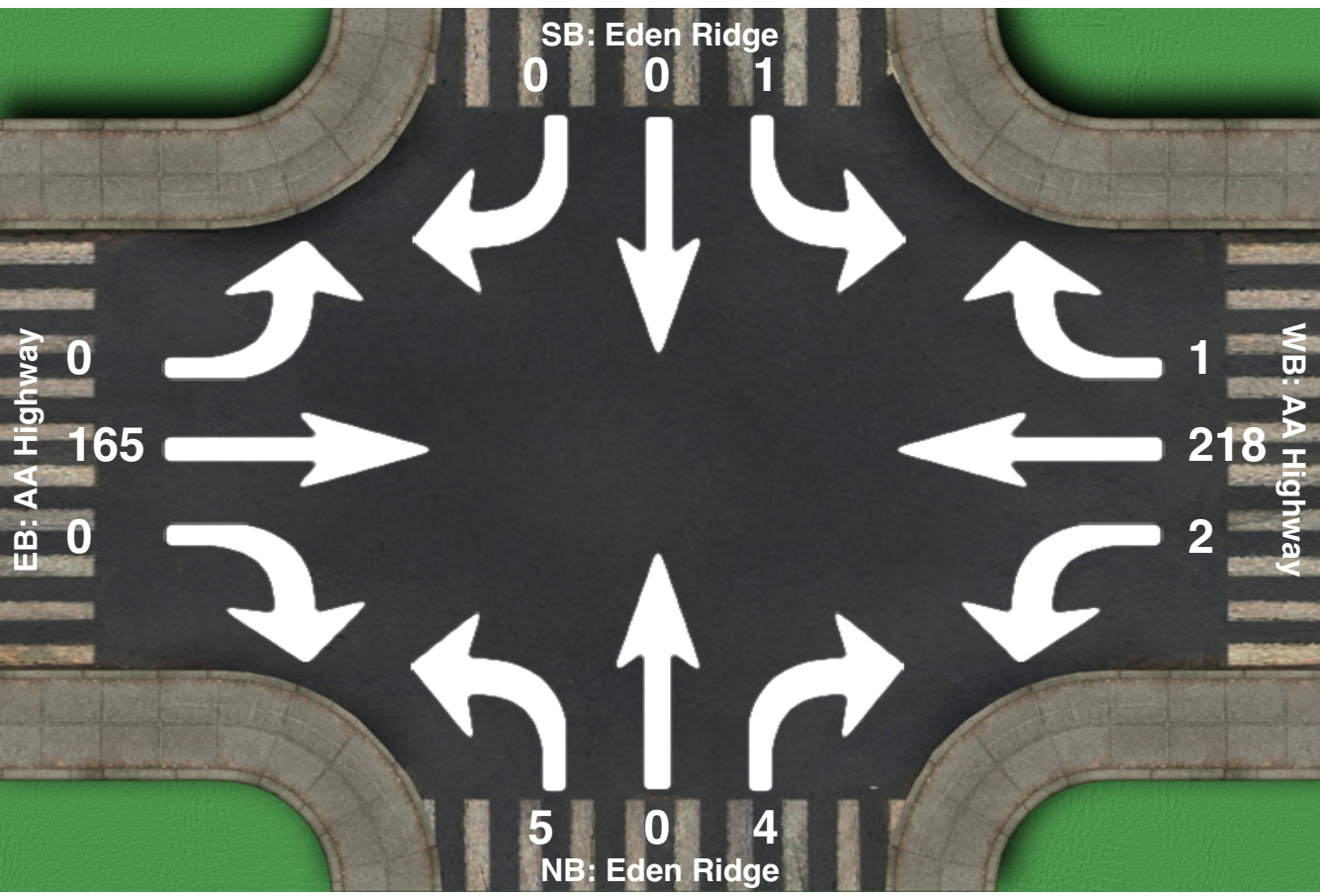
Vehicle	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Car	1	0	0	2	218	1	5	0	4	0	165	0	396
Truck	0	0	0	0	0	0	0	0	0	0	0	0	0

Peak Hour Pedestrians

	NE			NW			SW			SE			Total
	Left	Right	Total	Left	Right	Total	Left	Right	Total	Left	Right	Total	
Pedestrians	0	0	0	0	0	0	0	0	0	0	0	0	0

Intersection Peak Hour

Location: Eden Ridge at AA Highway, Bracken County Ky.
GPS Coordinates: Lat=38.210032, Lon=-84.814381
Date: 2020-03-11
Day of week: Wednesday
Weather: Cloudy
Analyst: Craig Howard



Intersection Peak Hour

07:00 - 08:00

	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Vehicle Total	1	0	0	2	218	1	5	0	4	0	165	0	396
Factor	0.25	0.00	0.00	0.50	0.89	0.25	0.62	0.00	0.50	0.00	0.88	0.00	0.88
Approach Factor	0.25			0.89			0.75			0.88			

, ,

Turn Count Summary

Location: Eden Ridge at AA Highway, Bracken County Ky.
GPS Coordinates: Lat=38.210032, Lon=-84.814381
Date: 2020-03-11
Day of week: Wednesday
Weather: Cloudy
Analyst: Craig Howard

Total vehicle traffic

Interval starts	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
16:00	1	0	0	1	43	0	1	0	2	2	88	0	138
16:15	0	0	0	1	45	0	0	0	0	1	94	0	141
16:30	1	0	0	1	38	1	0	0	1	0	78	0	120
16:45	0	0	0	0	41	1	0	0	0	0	88	1	131
17:00	0	0	1	0	32	0	0	0	3	0	99	0	135
17:15	0	0	0	1	43	0	0	0	0	1	102	1	148
17:30	0	0	1	1	36	0	0	0	1	0	83	0	122
17:45	0	0	0	0	41	1	0	0	2	0	87	1	132
18:00	0	0	0	0	1	0	0	0	0	0	0	0	1

Car traffic

Interval starts	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
16:00	1	0	0	1	43	0	1	0	2	2	88	0	138
16:15	0	0	0	1	45	0	0	0	0	1	94	0	141
16:30	1	0	0	1	38	1	0	0	1	0	78	0	120
16:45	0	0	0	0	41	1	0	0	0	0	88	1	131
17:00	0	0	1	0	32	0	0	0	3	0	99	0	135
17:15	0	0	0	1	43	0	0	0	0	1	102	1	148
17:30	0	0	1	1	36	0	0	0	1	0	83	0	122
17:45	0	0	0	0	41	1	0	0	2	0	87	1	132
18:00	0	0	0	0	1	0	0	0	0	0	0	0	1

Truck traffic

Interval starts	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
16:00	0	0	0	0	0	0	0	0	0	0	0	0	0
16:15	0	0	0	0	0	0	0	0	0	0	0	0	0
16:30	0	0	0	0	0	0	0	0	0	0	0	0	0
16:45	0	0	0	0	0	0	0	0	0	0	0	0	0
17:00	0	0	0	0	0	0	0	0	0	0	0	0	0
17:15	0	0	0	0	0	0	0	0	0	0	0	0	0
17:30	0	0	0	0	0	0	0	0	0	0	0	0	0
17:45	0	0	0	0	0	0	0	0	0	0	0	0	0
18:00	0	0	0	0	0	0	0	0	0	0	0	0	0

Pedestrian volumes

Interval starts	NE			NW			SW			SE			Total
	Left	Right	Total	Left	Right	Total	Left	Right	Total	Left	Right	Total	
16:00	0	0	0	0	0	0	0	0	0	0	0	0	0
16:15	0	0	0	0	0	0	0	0	0	0	0	0	0
16:30	0	0	0	0	0	0	0	0	0	0	0	0	0
16:45	0	0	0	0	0	0	0	0	0	0	0	0	0
17:00	0	0	0	0	0	0	0	0	0	0	0	0	0
17:15	0	0	0	0	0	0	0	0	0	0	0	0	0
17:30	0	0	0	0	0	0	0	0	0	0	0	0	0
17:45	0	0	0	0	0	0	0	0	0	0	0	0	0
18:00	0	0	0	0	0	0	0	0	0	0	0	0	0

Intersection Peak Hour

17:00 - 18:00

	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Vehicle Total	0	0	2	2	152	1	0	0	6	1	371	2	537
Factor	0.00	0.00	0.50	0.50	0.88	0.25	0.00	0.00	0.50	0.25	0.91	0.50	0.91
Approach Factor	0.50			0.88			0.50			0.90			

Peak Hour Vehicle Summary

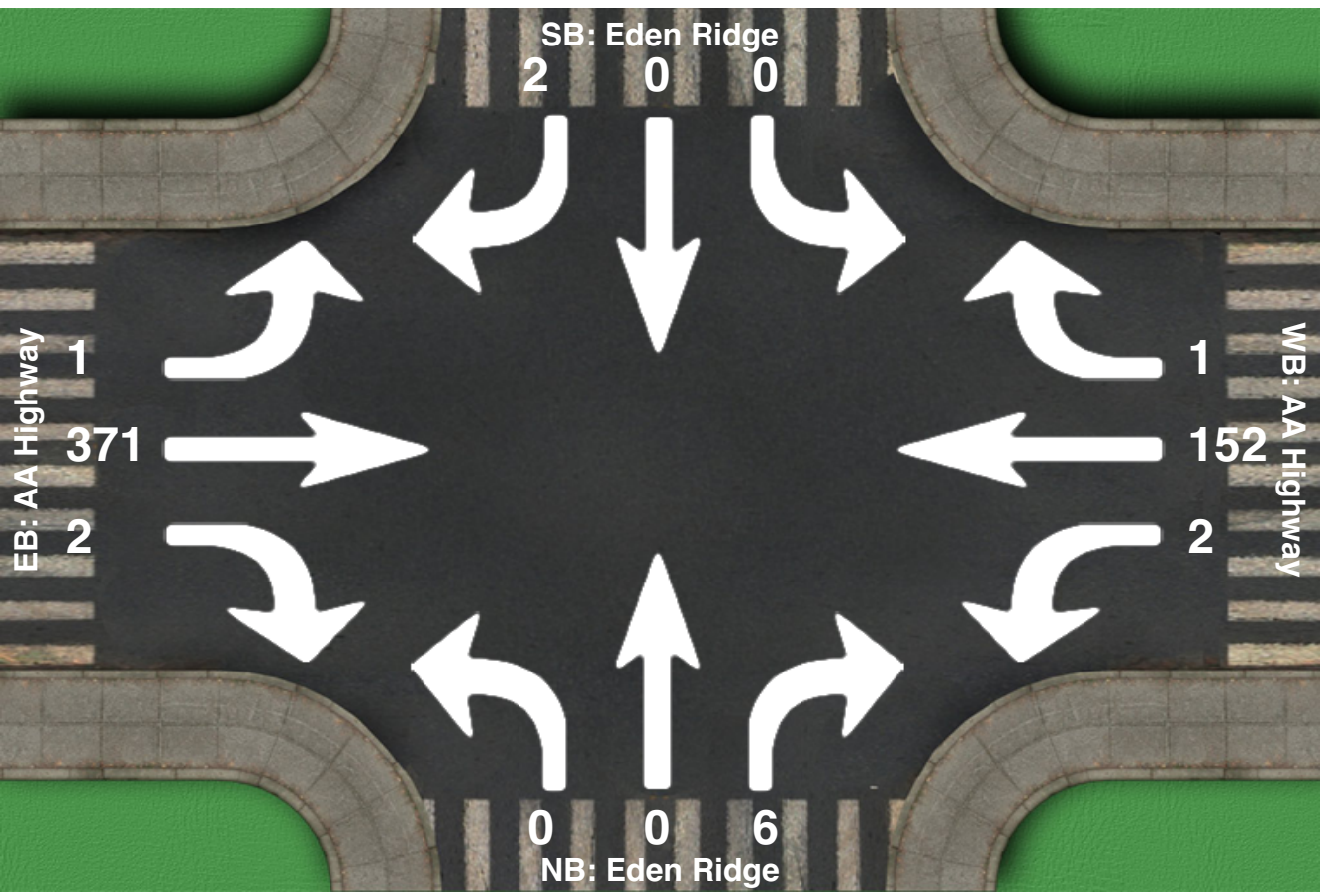
Vehicle	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Car	0	0	2	2	152	1	0	0	6	1	371	2	537
Truck	0	0	0	0	0	0	0	0	0	0	0	0	0

Peak Hour Pedestrians

	NE			NW			SW			SE			Total
	Left	Right	Total	Left	Right	Total	Left	Right	Total	Left	Right	Total	
Pedestrians	0	0	0	0	0	0	0	0	0	0	0	0	0

Intersection Peak Hour

Location: Eden Ridge at AA Highway, Bracken County Ky.
GPS Coordinates: Lat=38.210032, Lon=-84.814381
Date: 2020-03-11
Day of week: Wednesday
Weather: Cloudy
Analyst: Craig Howard



Intersection Peak Hour

17:00 - 18:00

	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Vehicle Total	0	0	2	2	152	1	0	0	6	1	371	2	537
Factor	0.00	0.00	0.50	0.50	0.88	0.25	0.00	0.00	0.50	0.25	0.91	0.50	0.91
Approach Factor	0.50			0.88			0.50			0.90			

Turning Movement Count Report

Count Name	Notes	Vehicle Volume
AA Hwy	U = U Turn L = Left Turn T = Thru R = Right Turn P1 = Pedestrian Direction 1 P2 = Pedestrian Direction 2 Veh = Total Vehicles for Approach	421
Location		**% Bank 1** / **% Bank 2**
Holts Creek Rd 7-9, Not Available		100.0% / 0.0%
Performed By		**% Bank 3** / **% Bank 4**
James Pristas		0.0% / 0.0%
Date		**Pedestrians Volume**
03/11/2020		0

Breakdown by Movement and Time Period

Period	NB							SB							WB							EB							Total Vehicles	Total Pedestrians
	U	L	T	R	P1	P2	Veh	U	L	T	R	P1	P2	Veh	U	L	T	R	P1	P2	Veh	U	L	T	R	P1	P2	Veh		
07:00 AM	0	0	1	2	0	0	3	0	0	1	0	0	0	1	0	0	66	0	0	0	66	0	0	35	1	0	0	36	106	0
07:15 AM	0	0	0	1	0	0	1	0	1	0	0	0	0	1	0	0	66	0	0	0	66	0	0	29	0	0	0	29	97	0
07:30 AM	0	1	0	0	0	0	1	0	0	0	1	0	0	1	0	0	62	0	0	0	62	0	0	53	0	0	0	53	117	0
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	54	2	0	0	57	0	0	43	1	0	0	44	101	0

Breakdown by Movement

Movement / Details	NB							SB							WB							EB							Entire Intersection	
	U	L	T	R	P1	P2	Veh	U	L	T	R	P1	P2	Veh	U	L	T	R	P1	P2	Veh	U	L	T	R	P1	P2	Veh	Vehicles	Pedestrians
Volume	0	1	1	3	0	0	5	0	1	1	1	0	0	3	0	1	248	2	0	0	251	0	0	160	2	0	0	162	421	0
PHF	-	0.25	0.25	0.38	-	-	0.42	-	0.25	0.25	0.25	-	-	0.75	-	0.25	0.94	0.25	-	-	0.95	-	-	0.75	0.50	-	-	0.76	0.90	-
% Bank 1	-	#####	#####	#####				-	#####	#####	#####				-	#####	#####	#####				-	-	#####	#####					
% Bank 2	-	0.0%	0.0%	0.0%				-	0.0%	0.0%	0.0%				-	0.0%	0.0%	0.0%				-	-	0.0%	0.0%					
% Bank 3	-	0.0%	0.0%	0.0%				-	0.0%	0.0%	0.0%				-	0.0%	0.0%	0.0%				-	-	0.0%	0.0%					
% Bank 4	-	0.0%	0.0%	0.0%				-	0.0%	0.0%	0.0%				-	0.0%	0.0%	0.0%				-	-	0.0%	0.0%					

Need a custom report?

Contact: support@portablestudies.com

Turning Movement Count Report

Count Name	Notes	Vehicle Volume
AA HWY	U = U Turn L = Left Turn T = Thru R = Right Turn P1 = Pedestrian Direction 1 P2 = Pedestrian Direction 2 Veh = Total Vehicles for Approach	462
Location		**% Bank 1** / **% Bank 2**
Iler Rd 7-9 , Not Available		100.0% / 0.0%
Performed By		**% Bank 3** / **% Bank 4**
James Pristas		0.0% / 0.0%
Date		**Pedestrians Volume**
03/10/2020		0

Breakdown by Movement and Time Period

Period	NB							SB							WB							EB							Total Vehicles	Total Pedestrians
	U	L	T	R	P1	P2	Veh	U	L	T	R	P1	P2	Veh	U	L	T	R	P1	P2	Veh	U	L	T	R	P1	P2	Veh		
07:00 AM	0	0	0	0	0	0	0	0	1	0	3	0	0	4	0	0	79	0	0	0	79	0	3	28	0	0	0	31	114	0
07:15 AM	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	59	4	0	0	63	0	1	24	0	0	0	25	91	0
07:30 AM	0	0	0	0	0	0	0	0	1	0	2	0	0	3	0	0	86	3	0	0	89	1	2	48	0	0	0	51	143	0
07:45 AM	0	0	0	0	0	0	0	0	0	0	5	0	0	5	0	0	67	3	0	0	70	0	3	36	0	0	0	39	114	0

Breakdown by Movement

Movement / Details	NB							SB							WB							EB							Entire Intersection	
	U	L	T	R	P1	P2	Veh	U	L	T	R	P1	P2	Veh	U	L	T	R	P1	P2	Veh	U	L	T	R	P1	P2	Veh	Vehicles	Pedestrians
Volume	0	0	0	0	0	0	0	0	2	0	13	0	0	15	0	0	291	10	0	0	301	1	9	136	0	0	0	146	462	0
PHF	-	-	-	-	-	-	-	-	0.50	-	0.65	-	-	0.75	-	-	0.85	0.63	-	-	0.85	0.25	0.75	0.71	-	-	-	0.72	0.81	-
% Bank 1	-	-	-	-				-	#####	-	#####				-	-	#####	#####				#####	#####	#####	-				**Need a custom report?**	
% Bank 2	-	-	-	-				-	0.0%	-	0.0%				-	-	0.0%	0.0%				0.0%	0.0%	0.0%	-				**Contact: support@portablestudies.com**	
% Bank 3	-	-	-	-				-	0.0%	-	0.0%				-	-	0.0%	0.0%				0.0%	0.0%	0.0%	-					
% Bank 4	-	-	-	-				-	0.0%	-	0.0%				-	-	0.0%	0.0%				0.0%	0.0%	0.0%	-					

Generated Using the Web-Based Report Generator from PortableStudies.com

Turning Movement Count Report

Count Name	Notes	Vehicle Volume
AA Hwy	U = U Turn L = Left Turn T = Thru R = Right Turn P1 = Pedestrian Direction 1 P2 = Pedestrian Direction 2 Veh = Total Vehicles for Approach	581
Location		**% Bank 1** / **% Bank 2**
Holts Creek Rd 4-6, Not Available		100.0% / 0.0%
Performed By		**% Bank 3** / **% Bank 4**
James Pristas		0.0% / 0.0%
Date		**Pedestrians Volume**
03/11/2020		0

Breakdown by Movement and Time Period

Period	NB							SB							WB							EB							Total Vehicles	Total Pedestrians
	U	L	T	R	P1	P2	Veh	U	L	T	R	P1	P2	Veh	U	L	T	R	P1	P2	Veh	U	L	T	R	P1	P2	Veh		
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	0	0	0	40	0	0	102	2	0	0	104	144	0
05:00 PM	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	34	0	0	0	34	0	0	109	1	0	0	110	145	0
05:15 PM	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	35	2	0	0	37	0	1	115	1	0	0	117	155	0
05:30 PM	0	1	0	0	0	0	1	0	1	2	1	0	0	4	0	0	42	2	0	0	44	0	1	85	2	0	0	88	137	0

Breakdown by Movement

Movement / Details	NB							SB							WB							EB							Entire Intersection	
	U	L	T	R	P1	P2	Veh	U	L	T	R	P1	P2	Veh	U	L	T	R	P1	P2	Veh	U	L	T	R	P1	P2	Veh	Vehicles	Pedestrians
Volume	0	1	0	1	0	0	2	0	2	2	1	0	0	5	0	0	151	4	0	0	155	0	2	411	6	0	0	419	581	0
PHF	-	0.25	-	0.25	-	-	0.50	-	0.50	0.25	0.25	-	-	0.31	-	-	0.90	0.50	-	-	0.88	-	0.50	0.89	0.75	-	-	0.90	0.94	-
% Bank 1	-	#####	-	#####				-	#####	#####	#####				-	-	#####	#####				-	#####	#####	#####				**Need a custom report?**	
% Bank 2	-	0.0%	-	0.0%				-	0.0%	0.0%	0.0%				-	-	0.0%	0.0%				-	0.0%	0.0%	0.0%				**Contact: support@portablestudies.com**	
% Bank 3	-	0.0%	-	0.0%				-	0.0%	0.0%	0.0%				-	-	0.0%	0.0%				-	0.0%	0.0%	0.0%					
% Bank 4	-	0.0%	-	0.0%				-	0.0%	0.0%	0.0%				-	-	0.0%	0.0%				-	0.0%	0.0%	0.0%					

Generated Using the Web-Based Report Generator from PortableStudies.com

Turning Movement Count Report

Count Name	Notes	Vehicle Volume
AA HWY	U = U Turn L = Left Turn T = Thru R = Right Turn P1 = Pedestrian Direction 1 P2 = Pedestrian Direction 2 Veh = Total Vehicles for Approach	690
Location		**% Bank 1** / **% Bank 2**
Iler Rd 4-6, Not Available		100.0% / 0.0%
Performed By		**% Bank 3** / **% Bank 4**
James Pristas		0.0% / 0.0%
Date		**Pedestrians Volume**
03/10/2020		0

Breakdown by Movement and Time Period

Period	NB							SB							WB							EB							Total Vehicles	Total Pedestrians
	U	L	T	R	P1	P2	Veh	U	L	T	R	P1	P2	Veh	U	L	T	R	P1	P2	Veh	U	L	T	R	P1	P2	Veh		
04:00 PM	0	0	0	0	0	0	0	0	4	0	3	0	0	7	0	0	47	1	0	0	48	0	4	109	0	0	0	113	168	0
04:15 PM	0	0	0	0	0	0	0	0	3	0	4	0	0	7	0	0	56	0	0	0	56	0	4	121	0	0	0	125	188	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	37	1	0	0	38	0	5	114	0	0	0	119	159	0
04:45 PM	0	0	0	0	0	0	0	0	18	0	5	0	0	23	0	0	38	0	0	0	38	0	7	107	0	0	0	114	175	0

Breakdown by Movement

Movement / Details	NB							SB							WB							EB							Entire Intersection	
	U	L	T	R	P1	P2	Veh	U	L	T	R	P1	P2	Veh	U	L	T	R	P1	P2	Veh	U	L	T	R	P1	P2	Veh	Vehicles	Pedestrians
Volume	0	0	0	0	0	0	0	0	25	0	14	0	0	39	0	0	178	2	0	0	180	0	20	451	0	0	0	471	690	0
PHF	-	-	-	-	-	-	-	-	0.35	-	0.70	-	-	0.42	-	-	0.79	0.50	-	-	0.80	-	0.71	0.93	-	-	-	0.94	0.92	-
% Bank 1	-	-	-	-				-	#####	-	#####				-	-	#####	#####				-	#####	#####	-					
% Bank 2	-	-	-	-				-	0.0%	-	0.0%				-	-	0.0%	0.0%				-	0.0%	0.0%	-					
% Bank 3	-	-	-	-				-	0.0%	-	0.0%				-	-	0.0%	0.0%				-	0.0%	0.0%	-					
% Bank 4	-	-	-	-				-	0.0%	-	0.0%				-	-	0.0%	0.0%				-	0.0%	0.0%	-					

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Leg	On-Ramp to Heather French Henry Hwy					AA Hwy					Downing Dr					AA Hwy					
Direction	Southbound					Westbound					Northbound					Eastbound					
Start Time	Right	Thru	Left	U-Turn	**App Total**	Right	Thru	Left	U-Turn	**App Total**	Right	Thru	Left	U-Turn	**App Total**	Right	Thru	Left	U-Turn	**App Total**	**Int Total**
2020-03-10 07:00:00	2	0	5	0	**7**	14	56	0	0	**70**	1	0	4	0	**5**	4	65	4	0	**73**	**155**
2020-03-10 07:15:00	5	0	19	0	**24**	9	41	0	0	**50**	0	0	3	0	**3**	4	90	4	0	**98**	**175**
2020-03-10 07:30:00	8	0	31	0	**39**	14	50	1	0	**65**	1	0	2	0	**3**	1	106	3	0	**110**	**217**
2020-03-10 07:45:00	5	0	9	0	**14**	23	57	1	0	**81**	0	0	3	0	**3**	4	69	6	0	**79**	**177**
2020-03-10 08:00:00	4	0	10	0	**14**	9	53	1	0	**63**	1	0	5	0	**6**	3	81	5	0	**89**	**172**
2020-03-10 08:15:00	0	0	2	0	**2**	6	37	0	0	**43**	3	0	6	0	**9**	4	55	2	0	**61**	**115**
2020-03-10 08:30:00	1	0	3	0	**4**	5	53	0	0	**58**	3	0	7	0	**10**	5	53	2	0	**60**	**132**
2020-03-10 08:45:00	1	1	3	0	**5**	1	44	0	0	**45**	5	0	5	0	**10**	0	78	0	0	**78**	**138**
2020-03-10 16:00:00	7	2	14	0	**23**	3	87	1	0	**91**	6	0	6	0	**12**	6	97	2	0	**105**	**231**
2020-03-10 16:15:00	6	0	7	0	**13**	2	85	4	0	**91**	4	0	4	0	**8**	1	115	0	0	**116**	**228**
2020-03-10 16:30:00	4	0	11	0	**15**	0	84	1	0	**85**	2	0	14	0	**16**	6	85	0	0	**91**	**207**
2020-03-10 16:45:00	6	2	14	0	**22**	2	88	0	0	**90**	12	0	10	0	**22**	6	106	0	0	**112**	**246**
2020-03-10 17:00:00	10	0	22	0	**32**	5	96	1	0	**102**	3	0	6	0	**9**	5	94	3	0	**102**	**245**
2020-03-10 17:15:00	7	0	10	0	**17**	0	94	1	0	**95**	6	0	7	0	**13**	11	107	1	0	**119**	**244**
2020-03-10 17:30:00	10	2	17	0	**29**	2	95	0	0	**97**	2	0	13	0	**15**	2	71	0	0	**73**	**214**
2020-03-10 17:45:00	5	0	7	0	**12**	1	78	1	0	**80**	6	0	7	0	**13**	9	85	0	0	**94**	**199**
Grand Total	81	7	184	0	**272**	96	1098	12	0	**1206**	55	0	102	0	**157**	71	1357	32	0	**1460**	**3095**
% Approach	29.8%	2.6%	67.6%	0.0%		8.0%	91.0%	1.0%	0.0%		35.0%	0.0%	65.0%	0.0%		4.9%	92.9%	2.2%	0.0%		
% Total	2.6%	0.2%	5.9%	0.0%	**8.8%**	3.1%	35.5%	0.4%	0.0%	**39.0%**	1.8%	0.0%	3.3%	0.0%	**5.1%**	2.3%	43.8%	1.0%	0.0%	**47.2%**	
Lights	72	5	180	0	**257**	91	1004	9	0	**1104**	43	0	89	0	**132**	67	1259	26	0	**1352**	**2845**
% Lights	88.9%	71.4%	97.8%	0.0%	**94.5%**	94.8%	91.4%	75.0%	0.0%	**91.5%**	78.2%	0.0%	87.3%	0.0%	**84.1%**	94.4%	92.8%	81.3%	0.0%	**92.6%**	**91.9%**
Articulated Trucks	7	2	2	0	**11**	4	74	2	0	**80**	4	0	11	0	**15**	2	66	6	0	**74**	**180**
% Articulated Trucks	8.6%	28.6%	1.1%	0.0%	**4.0%**	4.2%	6.7%	16.7%	0.0%	**6.6%**	7.3%	0.0%	10.8%	0.0%	**9.6%**	2.8%	4.9%	18.8%	0.0%	**5.1%**	**5.8%**
Buses and Single-Unit Trucks	2	0	2	0	**4**	1	20	1	0	**22**	8	0	2	0	**10**	2	32	0	0	**34**	**70**
% Buses and Single-Unit Trucks	2.5%	0.0%	1.1%	0.0%	**1.5%**	1.0%	1.8%	8.3%	0.0%	**1.8%**	14.5%	0.0%	2.0%	0.0%	**6.4%**	2.8%	2.4%	0.0%	0.0%	**2.3%**	**2.3%**

Leg	Kenton Station Dr.				AA Hwy				AA Hwy				
Direction	Southbound				Westbound				Eastbound				
Start Time	Right	Left	U-Turn	**App Total**	Right	Thru	U-Turn	**App Total**	Thru	Left	U-Turn	**App Total**	**Int Total**
2020-03-10 07:00:00	0	2	0	**2**	11	76	0	**87**	62	1	0	**63**	**152**
2020-03-10 07:15:00	0	5	0	**5**	16	78	0	**94**	117	1	0	**118**	**217**
2020-03-10 07:30:00	0	7	0	**7**	29	84	0	**113**	122	1	0	**123**	**243**
2020-03-10 07:45:00	1	5	0	**6**	68	95	0	**163**	101	1	0	**102**	**271**
2020-03-10 08:00:00	0	9	0	**9**	41	84	0	**125**	90	1	0	**91**	**225**
Forced Peak Hour	1	26	0	**27**	154	341	0	**495**	430	4	0	**434**	**956**
2020-03-10 08:15:00	1	7	0	**8**	42	63	0	**105**	91	2	0	**93**	**206**
2020-03-10 08:30:00	1	12	0	**13**	27	75	0	**102**	56	1	0	**57**	**172**
2020-03-10 08:45:00	0	18	0	**18**	29	65	0	**94**	86	5	0	**91**	**203**
2020-03-10 16:00:00	4	52	0	**56**	17	153	0	**170**	152	2	0	**154**	**380**
2020-03-10 16:15:00	2	32	0	**34**	28	124	0	**152**	160	1	0	**161**	**347**
2020-03-10 16:30:00	6	43	0	**49**	18	140	0	**158**	134	3	0	**137**	**344**
2020-03-10 16:45:00	2	51	0	**53**	22	124	0	**146**	157	1	0	**158**	**357**
2020-03-10 17:00:00	3	52	0	**55**	18	150	0	**168**	194	2	0	**196**	**419**
2020-03-10 17:15:00	9	29	0	**38**	19	128	0	**147**	163	1	0	**164**	**349**
2020-03-10 17:30:00	2	30	0	**32**	14	126	0	**140**	141	4	0	**145**	**317**
Forced Peak Hour	16	162	0	**178**	73	528	0	**601**	655	8	0	**663**	**1442**
2020-03-10 17:45:00	0	29	0	**29**	16	119	0	**135**	150	0	0	**150**	**314**
Grand Total	31	383	0	**414**	415	1684	0	**2099**	1976	27	0	**2003**	**4516**
% Approach	7.5%	92.5%	0.0%		19.8%	80.2%	0.0%		98.7%	1.3%	0.0%		
% Total	0.7%	8.5%	0.0%	**9.2%**	9.2%	37.3%	0.0%	**46.5%**	43.8%	0.6%	0.0%	**44.4%**	
Lights	31	373	0	**404**	411	1554	0	**1965**	1849	27	0	**1876**	**4245**
% Lights	100.0%	97.4%	0.0%	**97.6%**	99.0%	92.3%	0.0%	**93.6%**	93.6%	100.0%	0.0%	**93.7%**	**94.0%**
Articulated Trucks	0	3	0	**3**	0	85	0	**85**	82	0	0	**82**	**170**
% Articulated Trucks	0.0%	0.8%	0.0%	**0.7%**	0.0%	5.0%	0.0%	**4.0%**	4.1%	0.0%	0.0%	**4.1%**	**3.8%**
Buses and Single-Unit Trucks	0	7	0	**7**	4	45	0	**49**	45	0	0	**45**	**101**
% Buses and Single-Unit Trucks	0.0%	1.8%	0.0%	**1.7%**	1.0%	2.7%	0.0%	**2.3%**	2.3%	0.0%	0.0%	**2.2%**	**2.2%**

Leg	AA Hwy					US Hwy 62					AA Hwy					US Hwy 62					
Direction	Southbound					Westbound					Northbound					Eastbound					
Start Time	Right	Thru	Left	U-Turn	**App Total**	Right	Thru	Left	U-Turn	**App Total**	Right	Thru	Left	U-Turn	**App Total**	Right	Thru	Left	U-Turn	**App Total**	**Int Total**
2020-03-10 07:00:00	3	27	19	0	**49**	19	31	7	0	**57**	13	64	8	0	**85**	5	42	4	0	**51**	**242**
2020-03-10 07:15:00	5	49	50	0	**104**	16	46	13	0	**75**	13	45	9	0	**67**	2	79	7	0	**88**	**334**
2020-03-10 07:30:00	4	51	59	0	**114**	22	58	33	0	**113**	33	54	6	0	**93**	6	127	11	0	**144**	**464**
2020-03-10 07:45:00	7	32	53	0	**92**	31	61	34	0	**126**	38	80	5	0	**123**	10	128	21	0	**159**	**500**
2020-03-10 08:00:00	8	46	31	0	**85**	13	41	23	0	**77**	25	54	4	0	**83**	6	45	5	0	**56**	**301**
Forced Peak Hour	24	178	193	0	**395**	82	206	103	0	**391**	109	233	24	0	**366**	24	379	44	0	**447**	**1599**
2020-03-10 08:15:00	13	41	23	0	**77**	14	31	23	0	**68**	20	56	7	0	**83**	14	36	16	0	**66**	**294**
2020-03-10 08:30:00	6	37	31	0	**74**	15	27	19	0	**61**	19	52	6	0	**77**	6	42	10	0	**58**	**270**
2020-03-10 08:45:00	13	50	23	0	**86**	21	35	22	0	**78**	25	57	6	0	**88**	8	43	3	0	**54**	**306**
2020-03-10 16:00:00	8	123	48	0	**179**	21	76	56	0	**153**	53	104	12	0	**169**	13	52	8	0	**73**	**574**
2020-03-10 16:15:00	18	110	51	0	**179**	22	59	62	0	**143**	43	84	14	0	**141**	16	56	17	0	**89**	**552**
2020-03-10 16:30:00	18	121	49	0	**188**	21	73	70	0	**164**	64	80	16	0	**160**	23	40	22	0	**85**	**597**
2020-03-10 16:45:00	15	99	62	0	**176**	23	72	52	0	**147**	48	83	18	0	**149**	12	44	14	0	**70**	**542**
2020-03-10 17:00:00	10	139	54	0	**203**	22	94	90	0	**206**	72	97	20	0	**189**	16	45	15	0	**76**	**674**
2020-03-10 17:15:00	7	112	71	0	**190**	21	79	74	0	**174**	53	68	13	0	**134**	18	70	12	0	**100**	**598**
2020-03-10 17:30:00	11	115	41	0	**167**	16	79	57	0	**152**	63	89	19	0	**171**	19	58	17	0	**94**	**584**
Forced Peak Hour	43	465	228	0	**736**	82	324	273	0	**679**	236	337	70	0	**643**	65	217	58	0	**340**	**2398**
2020-03-10 17:45:00	16	118	40	0	**174**	14	60	56	0	**130**	41	81	8	0	**130**	18	60	10	0	**88**	**522**
Grand Total	162	1270	705	0	**2137**	311	922	691	0	**1924**	623	1148	171	0	**1942**	192	967	192	0	**1351**	**7354**
% Approach	7.6%	59.4%	33.0%	0.0%		16.2%	47.9%	35.9%	0.0%		32.1%	59.1%	8.8%	0.0%		14.2%	71.6%	14.2%	0.0%		
% Total	2.2%	17.3%	9.6%	0.0%	**29.1%**	4.2%	12.5%	9.4%	0.0%	**26.2%**	8.5%	15.6%	2.3%	0.0%	**26.4%**	2.6%	13.1%	2.6%	0.0%	**18.4%**	
Lights	157	1179	681	0	**2017**	302	885	682	0	**1869**	614	1033	159	0	**1806**	184	926	189	0	**1299**	**6991**
% Lights	96.9%	92.8%	96.6%	0.0%	**94.4%**	97.1%	96.0%	98.7%	0.0%	**97.1%**	98.6%	90.0%	93.0%	0.0%	**93.0%**	95.8%	95.8%	98.4%	0.0%	**96.2%**	**95.1%**
Articulated Trucks	2	70	4	0	**76**	2	1	2	0	**5**	4	83	9	0	**96**	5	4	3	0	**12**	**189**
% Articulated Trucks	1.2%	5.5%	0.6%	0.0%	**3.6%**	0.6%	0.1%	0.3%	0.0%	**0.3%**	0.6%	7.2%	5.3%	0.0%	**4.9%**	2.6%	0.4%	1.6%	0.0%	**0.9%**	**2.6%**
Buses and Single-Unit Trucks	3	21	20	0	**44**	7	36	7	0	**50**	5	32	3	0	**40**	3	37	0	0	**40**	**174**
% Buses and Single-Unit Trucks	1.9%	1.7%	2.8%	0.0%	**2.1%**	2.3%	3.9%	1.0%	0.0%	**2.6%**	0.8%	2.8%	1.8%	0.0%	**2.1%**	1.6%	3.8%	0.0%	0.0%	**3.0%**	**2.4%**

Leg	AA Hwy					Sawmill Pike					AA Hwy					Tucker Drive					
Direction	Southbound					Westbound					Northbound					Eastbound					
Start Time	Right	Thru	Left	U-Turn	**App Total**	Right	Thru	Left	U-Turn	**App Total**	Right	Thru	Left	U-Turn	**App Total**	Right	Thru	Left	U-Turn	**App Total**	**Int Total**
2020-03-10 07:00:00	0	38	0	0	**38**	0	0	0	0	**0**	1	65	18	0	**84**	5	0	0	0	**5**	**127**
2020-03-10 07:15:00	1	47	2	0	**50**	0	0	0	0	**0**	0	63	35	0	**98**	8	0	1	0	**9**	**157**
2020-03-10 07:30:00	3	63	1	0	**67**	0	0	0	0	**0**	1	81	44	0	**126**	16	0	1	0	**17**	**210**
2020-03-10 07:45:00	5	59	0	0	**64**	0	0	0	0	**0**	0	106	43	0	**149**	17	0	1	0	**18**	**231**
2020-03-10 08:00:00	1	61	2	0	**64**	0	0	1	0	**1**	2	72	31	0	**105**	4	0	1	0	**5**	**175**
Forced Peak Hour	10	230	5	0	**245**	0	0	1	0	**1**	3	322	153	0	**478**	45	0	4	0	**49**	**773**
2020-03-10 08:15:00	4	54	2	0	**60**	1	0	1	0	**2**	2	79	26	0	**107**	4	0	3	0	**7**	**176**
2020-03-10 08:30:00	7	43	1	0	**51**	3	0	0	0	**3**	0	66	19	0	**85**	6	1	3	0	**10**	**149**
2020-03-10 08:45:00	6	52	0	0	**58**	0	1	1	0	**2**	0	57	20	0	**77**	4	0	6	0	**10**	**147**
2020-03-10 16:00:00	21	164	0	0	**185**	1	0	0	0	**1**	1	107	39	0	**147**	35	0	9	0	**44**	**377**
2020-03-10 16:15:00	16	143	2	0	**161**	2	0	3	0	**5**	1	96	31	0	**128**	23	0	9	0	**32**	**326**
2020-03-10 16:30:00	16	132	0	0	**148**	0	0	1	0	**1**	0	94	29	0	**123**	23	0	4	0	**27**	**299**
2020-03-10 16:45:00	12	136	1	0	**149**	1	1	0	0	**2**	0	93	24	0	**117**	28	0	5	0	**33**	**301**
2020-03-10 17:00:00	22	162	1	0	**185**	4	1	1	0	**6**	0	119	26	0	**145**	34	0	8	0	**42**	**378**
2020-03-10 17:15:00	17	141	0	0	**158**	1	1	0	0	**2**	2	100	32	0	**134**	26	0	9	0	**35**	**329**
2020-03-10 17:30:00	23	142	0	0	**165**	0	1	0	0	**1**	0	105	39	0	**144**	25	0	2	0	**27**	**337**
Forced Peak Hour	74	581	2	0	**657**	6	4	1	0	**11**	2	417	121	0	**540**	113	0	24	0	**137**	**1345**
2020-03-10 17:45:00	10	131	0	0	**141**	0	0	0	0	**0**	0	97	25	0	**122**	25	0	6	0	**31**	**294**
Grand Total	164	1568	12	0	**1744**	13	5	8	0	**26**	10	1400	481	0	**1891**	283	1	68	0	**352**	**4013**
% Approach	9.4%	89.9%	0.7%	0.0%		50.0%	19.2%	30.8%	0.0%		0.5%	74.0%	25.4%	0.0%		80.4%	0.3%	19.3%	0.0%		
% Total	4.1%	39.1%	0.3%	0.0%	**43.5%**	0.3%	0.1%	0.2%	0.0%	**0.6%**	0.2%	34.9%	12.0%	0.0%	**47.1%**	7.1%	0.0%	1.7%	0.0%	**8.8%**	
Lights	164	1473	9	0	**1646**	13	5	6	0	**24**	10	1271	477	0	**1758**	278	1	67	0	**346**	**3774**
% Lights	100.0%	93.9%	75.0%	0.0%	**94.4%**	100.0%	100.0%	75.0%	0.0%	**92.3%**	100.0%	90.8%	99.2%	0.0%	**93.0%**	98.2%	100.0%	98.5%	0.0%	**98.3%**	**94.0%**
Articulated Trucks	0	69	2	0	**71**	0	0	1	0	**1**	0	95	2	0	**97**	1	0	0	0	**1**	**170**
% Articulated Trucks	0.0%	4.4%	16.7%	0.0%	**4.1%**	0.0%	0.0%	12.5%	0.0%	**3.8%**	0.0%	6.8%	0.4%	0.0%	**5.1%**	0.4%	0.0%	0.0%	0.0%	**0.3%**	**4.2%**
Buses and Single-Unit Trucks	0	26	1	0	**27**	0	0	1	0	**1**	0	34	2	0	**36**	4	0	1	0	**5**	**69**
% Buses and Single-Unit Trucks	0.0%	1.7%	8.3%	0.0%	**1.5%**	0.0%	0.0%	12.5%	0.0%	**3.8%**	0.0%	2.4%	0.4%	0.0%	**1.9%**	1.4%	0.0%	1.5%	0.0%	**1.4%**	**1.7%**

Leg	AA Hwy				AA Hwy				Market Place Dr				
Direction	Southbound				Northbound				Eastbound				
Start Time	Right	Thru	U-Turn	**App Total**	Thru	Left	U-Turn	**App Total**	Right	Left	U-Turn	**App Total**	**Int Total**
2020-03-10 07:00:00	6	34	0	**40**	61	4	0	**65**	5	15	0	**20**	**125**
2020-03-10 07:15:00	10	47	0	**57**	59	4	0	**63**	2	9	0	**11**	**131**
2020-03-10 07:30:00	9	63	0	**72**	79	3	0	**82**	2	14	0	**16**	**170**
2020-03-10 07:45:00	7	61	0	**68**	109	2	0	**111**	5	11	0	**16**	**195**
2020-03-10 08:00:00	8	61	0	**69**	72	3	0	**75**	6	20	0	**26**	**170**
Forced Peak Hour	34	232	0	**266**	319	12	0	**331**	15	54	0	**69**	**666**
2020-03-10 08:15:00	12	52	1	**65**	84	2	0	**86**	3	11	0	**14**	**165**
2020-03-10 08:30:00	6	47	0	**53**	65	5	0	**70**	4	12	0	**16**	**139**
2020-03-10 08:45:00	14	54	0	**68**	61	3	0	**64**	4	16	0	**20**	**152**
2020-03-10 16:00:00	27	158	0	**185**	105	11	0	**116**	17	61	0	**78**	**379**
2020-03-10 16:15:00	21	135	0	**156**	98	8	0	**106**	29	58	0	**87**	**349**
2020-03-10 16:30:00	45	130	0	**175**	93	8	0	**101**	16	68	0	**84**	**360**
2020-03-10 16:45:00	38	123	0	**161**	88	12	0	**100**	25	38	0	**63**	**324**
2020-03-10 17:00:00	29	149	0	**178**	127	9	0	**136**	23	55	0	**78**	**392**
2020-03-10 17:15:00	31	137	0	**168**	101	7	0	**108**	21	46	0	**67**	**343**
2020-03-10 17:30:00	25	145	0	**170**	105	9	0	**114**	20	54	0	**74**	**358**
Forced Peak Hour	123	554	0	**677**	421	37	0	**458**	89	193	0	**282**	**1417**
2020-03-10 17:45:00	27	124	0	**151**	86	14	0	**100**	21	49	0	**70**	**321**
Grand Total	315	1520	1	**1836**	1393	104	0	**1497**	203	537	0	**740**	**4073**
% Approach	17.2%	82.8%	0.1%		93.1%	6.9%	0.0%		27.4%	72.6%	0.0%		
% Total	7.7%	37.3%	0.0%	**45.1%**	34.2%	2.6%	0.0%	**36.8%**	5.0%	13.2%	0.0%	**18.2%**	
Lights	315	1423	1	**1739**	1271	100	0	**1371**	202	530	0	**732**	**3842**
% Lights	100.0%	93.6%	100.0%	**94.7%**	91.2%	96.2%	0.0%	**91.6%**	99.5%	98.7%	0.0%	**98.9%**	**94.3%**
Articulated Trucks	0	68	0	**68**	91	3	0	**94**	1	1	0	**2**	**164**
% Articulated Trucks	0.0%	4.5%	0.0%	**3.7%**	6.5%	2.9%	0.0%	**6.3%**	0.5%	0.2%	0.0%	**0.3%**	**4.0%**
Buses and Single-Unit Trucks	0	29	0	**29**	31	1	0	**32**	0	6	0	**6**	**67**
% Buses and Single-Unit Trucks	0.0%	1.9%	0.0%	**1.6%**	2.2%	1.0%	0.0%	**2.1%**	0.0%	1.1%	0.0%	**0.8%**	**1.6%**

Leg	AA Hwy				AA Hwy				Walmart Way				
Direction	Southbound				Northbound				Eastbound				
Start Time	Right	Thru	U-Turn	**App Total**	Thru	Left	U-Turn	**App Total**	Right	Left	U-Turn	**App Total**	**Int Total**
2020-03-10 07:00:00	8	34	0	**42**	75	0	0	**75**	0	8	0	**8**	**125**
2020-03-10 07:15:00	12	43	0	**55**	90	2	0	**92**	1	8	0	**9**	**156**
2020-03-10 07:30:00	7	70	0	**77**	118	1	0	**119**	2	5	0	**7**	**203**
2020-03-10 07:45:00	9	67	0	**76**	143	0	0	**143**	0	7	0	**7**	**226**
2020-03-10 08:00:00	11	56	0	**67**	99	1	0	**100**	2	6	0	**8**	**175**
Forced Peak Hour	39	236	0	**275**	450	4	0	**454**	5	26	0	**31**	**760**
2020-03-10 08:15:00	9	50	0	**59**	90	4	0	**94**	0	17	0	**17**	**170**
2020-03-10 08:30:00	7	40	0	**47**	73	2	0	**75**	4	10	0	**14**	**136**
2020-03-10 08:45:00	13	44	0	**57**	73	3	0	**76**	3	4	0	**7**	**140**
2020-03-10 16:00:00	40	144	0	**184**	102	5	0	**107**	13	34	0	**47**	**338**
2020-03-10 16:15:00	34	127	0	**161**	86	7	0	**93**	10	38	0	**48**	**302**
2020-03-10 16:30:00	37	114	0	**151**	90	7	0	**97**	20	29	0	**49**	**297**
2020-03-10 16:45:00	27	125	0	**152**	82	3	0	**85**	6	32	0	**38**	**275**
2020-03-10 17:00:00	39	147	0	**186**	94	6	0	**100**	13	52	0	**65**	**351**
2020-03-10 17:15:00	50	113	0	**163**	92	5	0	**97**	8	40	0	**48**	**308**
2020-03-10 17:30:00	33	129	0	**162**	96	7	0	**103**	25	37	0	**62**	**327**
Forced Peak Hour	149	514	0	**663**	364	21	0	**385**	52	161	0	**213**	**1261**
2020-03-10 17:45:00	29	131	0	**160**	80	5	0	**85**	15	34	0	**49**	**294**
Grand Total	365	1434	0	**1799**	1483	58	0	**1541**	122	361	0	**483**	**3823**
% Approach	20.3%	79.7%	0.0%		96.2%	3.8%	0.0%		25.3%	74.7%	0.0%		
% Total	9.5%	37.5%	0.0%	**47.1%**	38.8%	1.5%	0.0%	**40.3%**	3.2%	9.4%	0.0%	**12.6%**	
Lights	363	1338	0	**1701**	1367	56	0	**1423**	122	353	0	**475**	**3599**
% Lights	99.5%	93.3%	0.0%	**94.6%**	92.2%	96.6%	0.0%	**92.3%**	100.0%	97.8%	0.0%	**98.3%**	**94.1%**
Articulated Trucks	1	70	0	**71**	85	2	0	**87**	0	4	0	**4**	**162**
% Articulated Trucks	0.3%	4.9%	0.0%	**3.9%**	5.7%	3.4%	0.0%	**5.6%**	0.0%	1.1%	0.0%	**0.8%**	**4.2%**
Buses and Single-Unit Trucks	1	26	0	**27**	31	0	0	**31**	0	4	0	**4**	**62**
% Buses and Single-Unit Trucks	0.3%	1.8%	0.0%	**1.5%**	2.1%	0.0%	0.0%	**2.0%**	0.0%	1.1%	0.0%	**0.8%**	**1.6%**

Leg	AA Hwy				AA Hwy				Walmart Way				
Direction	Southbound				Northbound				Eastbound				
Start Time	Right	Thru	U-Turn	**App Total**	Thru	Left	U-Turn	**App Total**	Right	Left	U-Turn	**App Total**	**Int Total**
2020-03-10 07:00:00	0	31	0	**31**	70	10	0	**80**	1	0	0	**1**	**112**
2020-03-10 07:15:00	0	45	0	**45**	96	7	0	**103**	7	0	0	**7**	**155**
2020-03-10 07:30:00	3	68	0	**71**	123	22	0	**145**	6	0	0	**6**	**222**
2020-03-10 07:45:00	3	66	0	**69**	130	26	0	**156**	10	0	0	**10**	**235**
2020-03-10 08:00:00	2	56	0	**58**	96	17	0	**113**	11	0	0	**11**	**182**
Forced Peak Hour	8	235	0	**243**	445	72	0	**517**	34	0	0	**34**	**794**
2020-03-10 08:15:00	3	46	0	**49**	97	14	0	**111**	8	1	0	**9**	**169**
2020-03-10 08:30:00	1	45	0	**46**	73	4	0	**77**	11	3	0	**14**	**137**
2020-03-10 08:45:00	3	44	0	**47**	78	15	0	**93**	10	2	0	**12**	**152**
2020-03-10 16:00:00	13	147	0	**160**	103	31	0	**134**	31	4	0	**35**	**329**
2020-03-10 16:15:00	11	128	0	**139**	94	38	0	**132**	38	5	0	**43**	**314**
2020-03-10 16:30:00	12	126	0	**138**	98	39	0	**137**	41	5	0	**46**	**321**
2020-03-10 16:45:00	14	123	0	**137**	77	34	0	**111**	40	6	0	**46**	**294**
2020-03-10 17:00:00	16	144	0	**160**	93	37	0	**130**	40	13	0	**53**	**343**
2020-03-10 17:15:00	9	109	0	**118**	111	39	0	**150**	46	1	0	**47**	**315**
2020-03-10 17:30:00	10	146	0	**156**	98	26	0	**124**	51	8	0	**59**	**339**
Forced Peak Hour	49	522	0	**571**	379	136	0	**515**	177	28	0	**205**	**1291**
2020-03-10 17:45:00	6	143	0	**149**	85	44	1	**130**	30	3	0	**33**	**312**
Grand Total	106	1467	0	**1573**	1522	403	1	**1926**	381	51	0	**432**	**3931**
% Approach	6.7%	93.3%	0.0%		79.0%	20.9%	0.1%		88.2%	11.8%	0.0%		
% Total	2.7%	37.3%	0.0%	**40.0%**	38.7%	10.3%	0.0%	**49.0%**	9.7%	1.3%	0.0%	**11.0%**	
Lights	105	1370	0	**1475**	1400	401	1	**1802**	378	49	0	**427**	**3704**
% Lights	99.1%	93.4%	0.0%	**93.8%**	92.0%	99.5%	100.0%	**93.6%**	99.2%	96.1%	0.0%	**98.8%**	**94.2%**
Articulated Trucks	1	67	0	**68**	91	1	0	**92**	1	2	0	**3**	**163**
% Articulated Trucks	0.9%	4.6%	0.0%	**4.3%**	6.0%	0.2%	0.0%	**4.8%**	0.3%	3.9%	0.0%	**0.7%**	**4.1%**
Buses and Single-Unit Trucks	0	30	0	**30**	31	1	0	**32**	2	0	0	**2**	**64**
% Buses and Single-Unit Trucks	0.0%	2.0%	0.0%	**1.9%**	2.0%	0.2%	0.0%	**1.7%**	0.5%	0.0%	0.0%	**0.5%**	**1.6%**

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File Name : KY 9 & KY 11
Site Code : 00081911
Start Date : 3/5/2020
Page No : 1

Groups Printed- Unshifted

	KY 11 (To Maysville) From North					KY 9 (To Lewis County) From East					KY 11 (To Flemingsburg) From South					KY 9 (To Maysville) From West					
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
06:45 AM	3	6	6	0	15	18	64	5	0	87	3	11	57	0	71	21	23	2	0	46	219
Total	3	6	6	0	15	18	64	5	0	87	3	11	57	0	71	21	23	2	0	46	219
07:00 AM	4	5	2	0	11	7	74	4	0	85	5	7	34	0	46	19	24	3	0	46	188
07:15 AM	7	5	4	0	16	16	109	6	0	131	3	23	47	0	73	41	35	6	0	82	302
07:30 AM	11	15	2	0	28	20	115	6	0	141	3	21	60	0	84	31	38	6	0	75	328
07:45 AM	9	12	2	0	23	10	117	9	0	136	7	29	72	0	108	42	49	3	0	94	361
Total	31	37	10	0	78	53	415	25	0	493	18	80	213	0	311	133	146	18	0	297	1179
08:00 AM	8	8	5	0	21	12	65	5	0	82	1	16	49	0	66	31	46	4	0	81	250
08:15 AM	7	4	4	0	15	8	71	9	0	88	2	22	49	0	73	25	30	4	0	59	235
08:30 AM	4	5	5	0	14	5	69	9	0	83	2	16	39	0	57	23	40	5	0	68	222
08:45 AM	8	10	6	0	24	6	65	5	0	76	9	15	38	0	62	27	29	4	0	60	222
Total	27	27	20	0	74	31	270	28	0	329	14	69	175	0	258	106	145	17	0	268	929
*** BREAK ***																					
03:00 PM	6	18	6	0	30	13	59	7	0	79	4	12	33	0	49	60	81	18	0	159	317
03:15 PM	13	15	21	0	49	4	57	8	0	69	6	12	46	0	64	49	89	15	0	153	335
03:30 PM	12	16	7	0	35	12	78	7	0	97	4	11	29	0	44	71	110	11	0	192	368
03:45 PM	24	19	16	0	59	11	71	10	0	92	8	7	52	0	67	55	85	17	0	157	375
Total	55	68	50	0	173	40	265	32	0	337	22	42	160	0	224	235	365	61	0	661	1395
04:00 PM	21	28	18	0	67	9	59	5	0	73	7	13	46	0	66	61	115	8	0	184	390
04:15 PM	17	23	18	0	58	7	55	4	0	66	9	14	48	0	71	70	105	10	0	185	380
04:30 PM	15	25	17	0	57	11	65	9	0	85	16	14	37	0	67	84	116	12	0	212	421
04:45 PM	17	21	13	0	51	9	62	9	0	80	7	9	44	0	60	55	121	13	0	189	380
Total	70	97	66	0	233	36	241	27	0	304	39	50	175	0	264	270	457	43	0	770	1571
05:00 PM	9	32	17	0	58	9	61	6	0	76	7	13	48	0	68	73	112	14	0	199	401
05:15 PM	16	20	13	0	49	4	75	9	0	88	7	21	56	0	84	58	111	25	0	194	415
05:30 PM	7	18	30	0	55	8	72	13	0	93	10	13	46	0	69	46	90	8	0	144	361
05:45 PM	6	9	10	0	25	6	63	4	0	73	5	11	37	0	53	42	68	14	0	124	275
Total	38	79	70	0	187	27	271	32	0	330	29	58	187	0	274	219	381	61	0	661	1452
Grand Total	224	314	222	0	760	205	1526	149	0	1880	125	310	967	0	1402	984	1517	202	0	2703	6745
Apprch %	29.5	41.3	29.2	0		10.9	81.2	7.9	0		8.9	22.1	69	0		36.4	56.1	7.5	0		
Total %	3.3	4.7	3.3	0	11.3	3	22.6	2.2	0	27.9	1.9	4.6	14.3	0	20.8	14.6	22.5	3	0	40.1	

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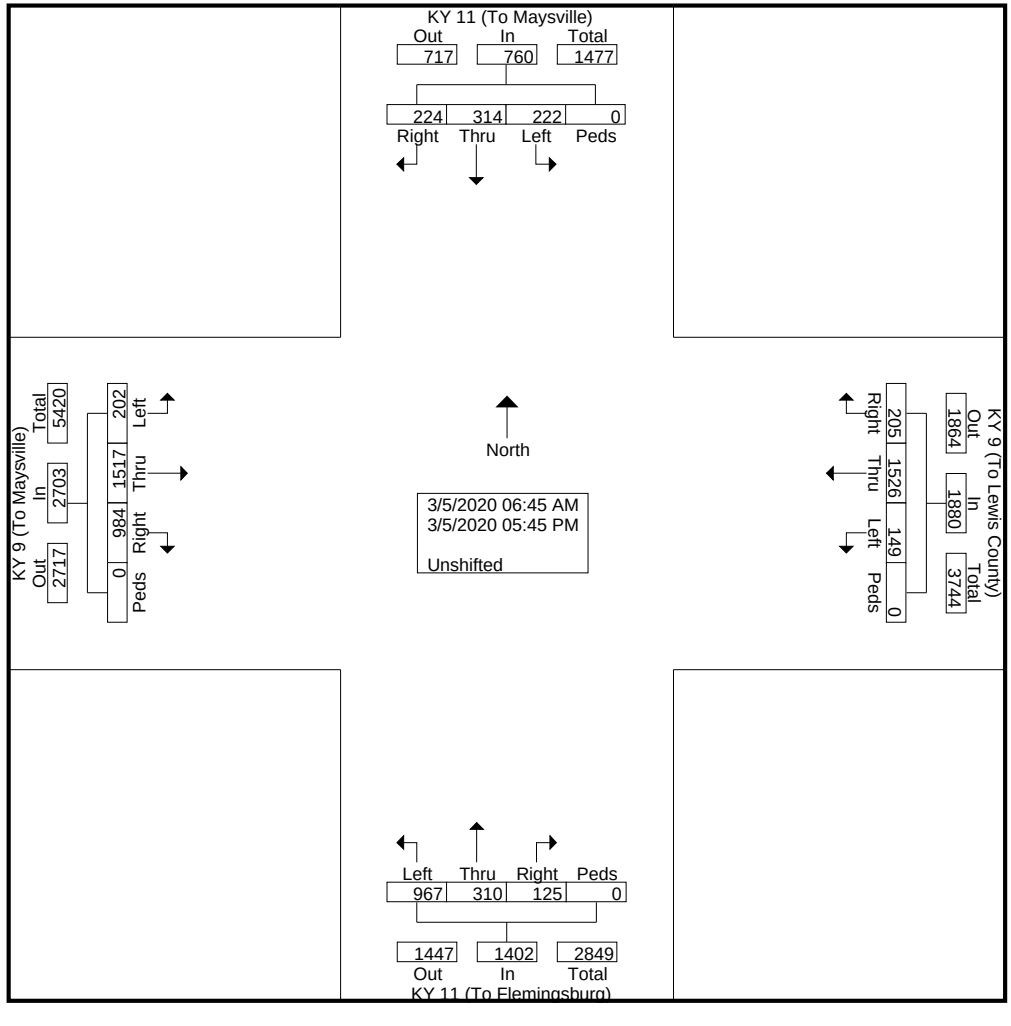
File Name : KY 9 & KY 11
Site Code : 00081911
Start Date : 3/5/2020
Page No : 2



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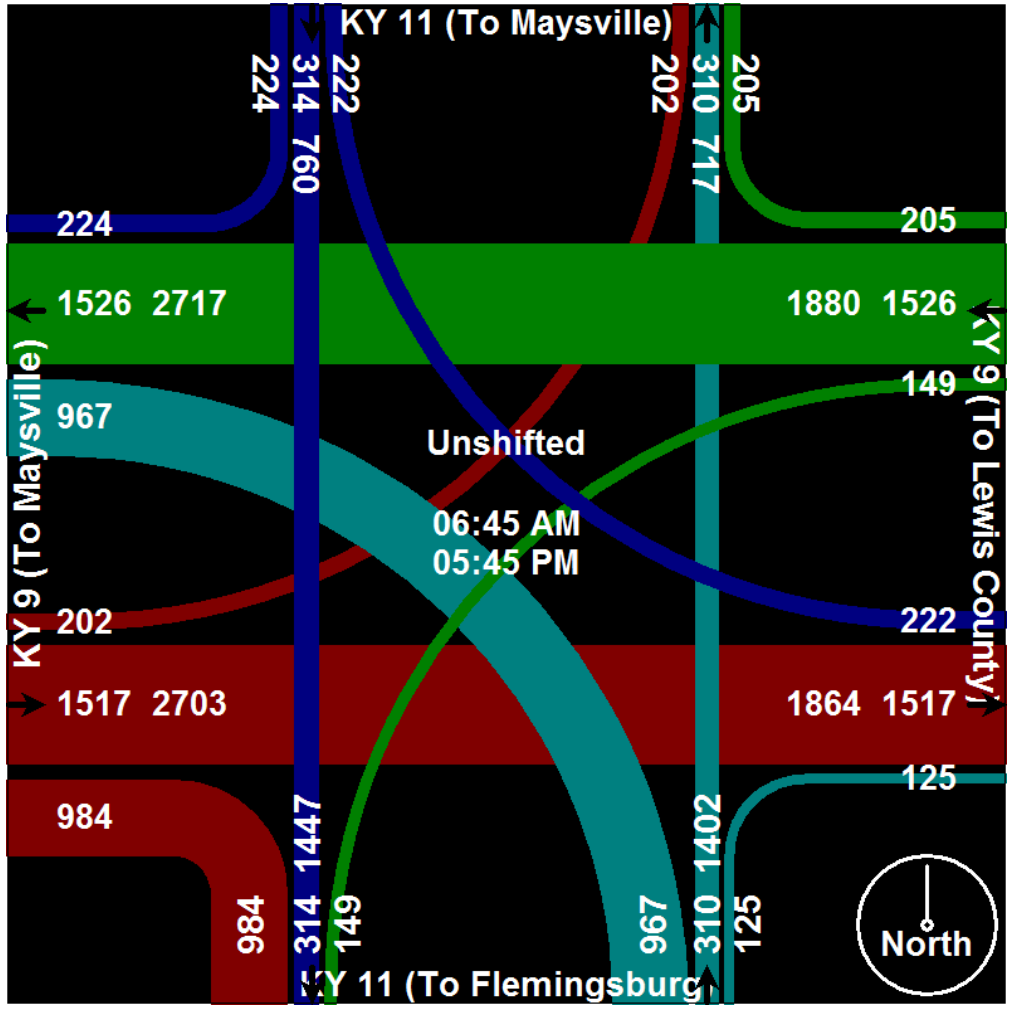
File Name : KY 9 & KY 11
Site Code : 00081911
Start Date : 3/5/2020
Page No : 3



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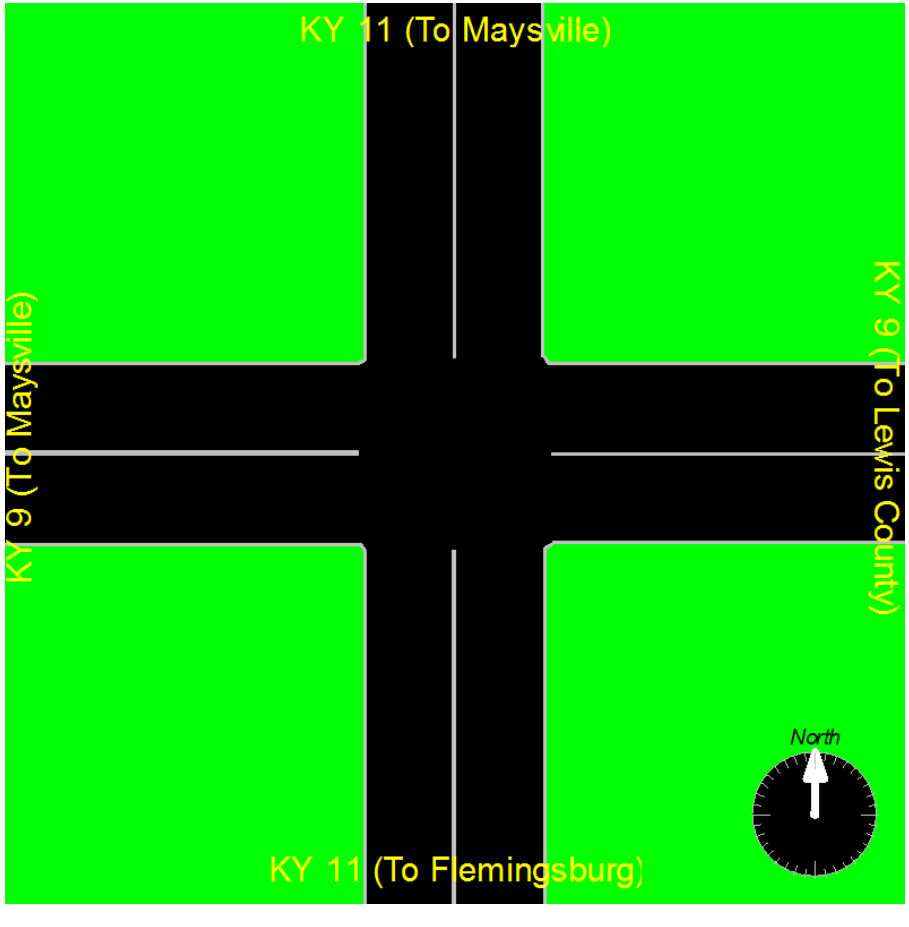
File Name : KY 9 & KY 11
Site Code : 00081911
Start Date : 3/5/2020
Page No : 4



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File Name : KY 9 & Clarkson Sherman Rd.
Site Code : 00819474
Start Date : 3/16/2020
Page No : 1

Groups Printed- Unshifted - Bank 1

	KY 9 (To Maysville) From North					Clarkson/Sherman Rd. (To KY 1448) From East					KY 9 (To Lewis County) From South					Clarkson/Sherman Rd. (To Landfill) From West					
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
06:45 AM	2	21	0	0	23	0	0	0	0	0	0	38	1	0	39	0	0	0	0	0	62
Total	2	21	0	0	23	0	0	0	0	0	0	38	1	0	39	0	0	0	0	0	62
07:00 AM	2	24	0	0	26	0	0	0	0	0	0	54	1	0	55	0	0	0	0	0	81
07:15 AM	0	26	0	0	26	1	2	0	0	3	0	62	4	0	66	0	0	2	0	2	97
07:30 AM	1	25	1	0	27	0	0	0	0	0	0	78	1	0	79	0	0	0	0	0	106
07:45 AM	4	46	0	0	50	1	0	0	0	1	0	78	0	0	78	0	0	3	0	3	132
Total	7	121	1	0	129	2	2	0	0	4	0	272	6	0	278	0	0	5	0	5	416
08:00 AM	2	26	0	0	28	0	0	0	0	0	1	53	1	0	55	1	0	3	0	4	87
08:15 AM	4	28	0	0	32	0	0	0	0	0	2	46	0	0	48	0	0	3	0	3	83
08:30 AM	0	39	0	0	39	0	0	0	0	0	0	46	0	0	46	0	1	2	0	3	88
08:45 AM	3	31	0	0	34	0	1	0	0	1	0	61	0	0	61	0	0	3	0	3	99
Total	9	124	0	0	133	0	1	0	0	1	3	206	1	0	210	1	1	11	0	13	357
*** BREAK ***																					
02:30 PM	2	72	1	0	75	3	0	0	0	3	0	59	1	0	60	1	0	4	0	5	143
02:45 PM	2	69	3	0	74	0	1	0	0	1	0	48	0	0	48	1	0	4	0	5	128
Total	4	141	4	0	149	3	1	0	0	4	0	107	1	0	108	2	0	8	0	10	271
03:00 PM	1	59	1	0	61	0	0	0	0	0	0	71	0	0	71	0	2	0	0	2	134
03:15 PM	2	74	0	0	76	0	0	0	0	0	0	42	2	0	44	0	0	1	0	1	121
03:30 PM	2	99	1	0	102	2	0	0	0	2	0	56	0	0	56	1	0	6	0	7	167
03:45 PM	1	87	1	0	89	0	0	0	0	0	0	50	0	0	50	2	0	4	0	6	145
Total	6	319	3	0	328	2	0	0	0	2	0	219	2	0	221	3	2	11	0	16	567
04:00 PM	2	103	0	0	105	2	0	0	0	2	0	59	0	0	59	1	1	6	0	8	174
04:15 PM	1	97	1	0	99	0	0	0	0	0	0	45	0	0	45	0	0	1	0	1	145
Grand Total	31	926	9	0	966	9	4	0	0	13	3	946	11	0	960	7	4	42	0	53	1992
Apprch %	3.2	95.9	0.9	0		69.2	30.8	0	0		0.3	98.5	1.1	0		13.2	7.5	79.2	0		
Total %	1.6	46.5	0.5	0	48.5	0.5	0.2	0	0	0.7	0.2	47.5	0.6	0	48.2	0.4	0.2	2.1	0	2.7	
Unshifted	14	926	8	0	948	9	2	0	0	11	2	946	9	0	957	5	4	21	0	30	1946
% Unshifted	45.2	100	88.9	0	98.1	100	50	0	0	84.6	66.7	100	81.8	0	99.7	71.4	100	50	0	56.6	97.7
Bank 1	17	0	1	0	18	0	2	0	0	2	1	0	2	0	3	2	0	21	0	23	46
% Bank 1	54.8	0	11.1	0	1.9	0	50	0	0	15.4	33.3	0	18.2	0	0.3	28.6	0	50	0	43.4	2.3

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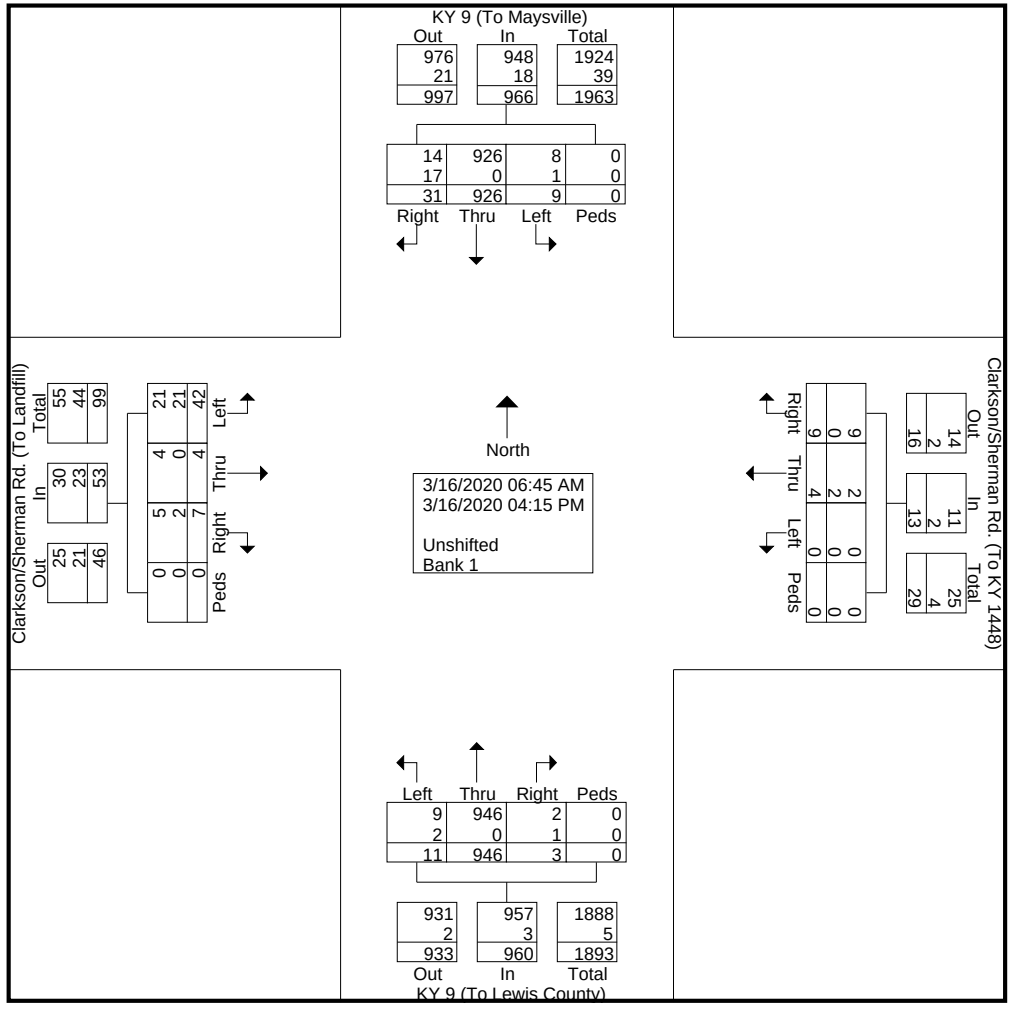
Default Comments
Change These in The Preferences Window
Select File/Preference in the Main Scree
Then Click the Comments Tab

File Name : KY 9 & Clarkson Sherman Rd.
Site Code : 00819474
Start Date : 3/16/2020
Page No : 2



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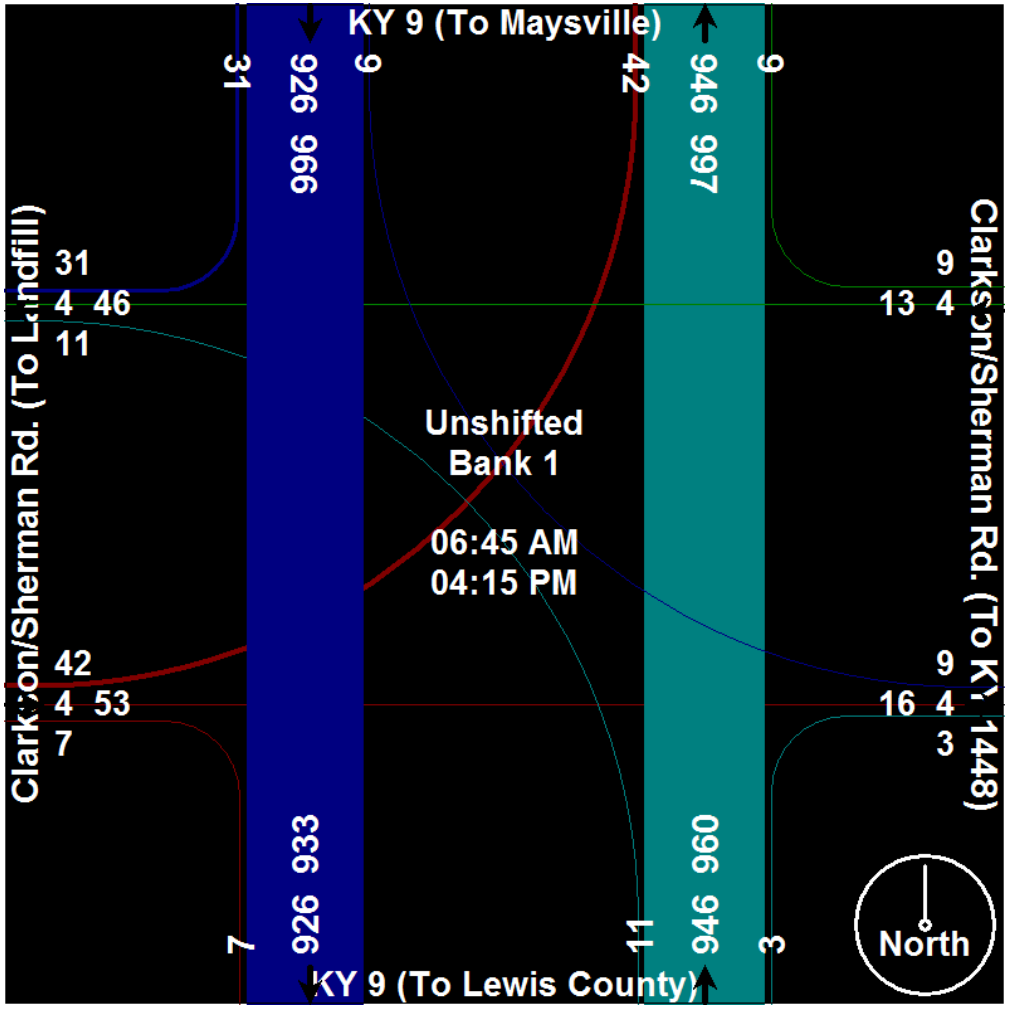
File Name : KY 9 & Clarkson Sherman Rd.
Site Code : 00819474
Start Date : 3/16/2020
Page No : 3



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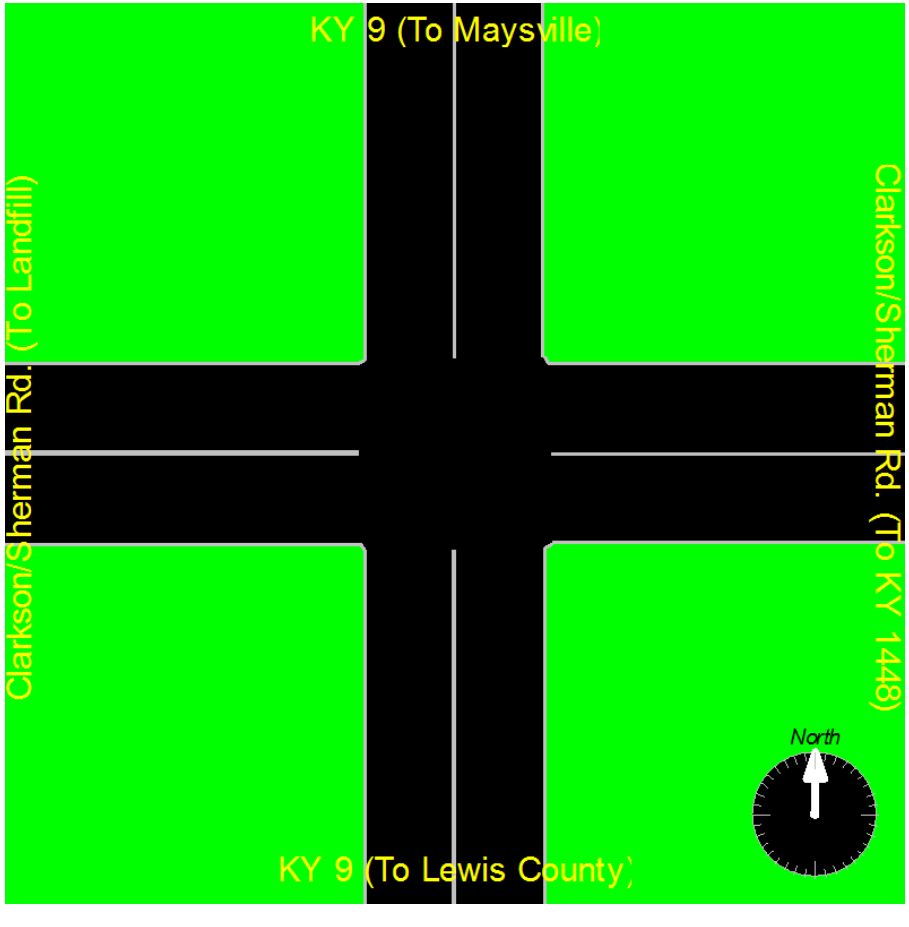
File Name : KY 9 & Clarkson Sherman Rd.
Site Code : 00819474
Start Date : 3/16/2020
Page No : 4



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Change These in The Preferences Window
Select File/Preference in the Main Scree
Then Click the Comments Tab

File Name : KY 9 & KY 1959
Site Code : 02291959
Start Date : 3/10/2020
Page No : 1

Groups Printed- Unshifted

	KY 9 (Lewis County) From North					KY 1959 (To KY 7) From East					KY 9 (Grayson) From South					KY 1959 (To KY 1947) From West					
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
07:00 AM	1	69	0	0	70	0	1	10	0	11	1	22	0	0	23	0	0	1	0	1	105
07:15 AM	2	54	0	0	56	0	0	15	0	15	2	13	0	0	15	0	0	1	0	1	87
07:30 AM	1	36	0	0	37	0	1	17	0	18	1	23	0	0	24	0	0	0	0	0	79
07:45 AM	1	34	0	0	35	0	0	8	0	8	5	17	0	0	22	0	0	1	0	1	66
Total	5	193	0	0	198	0	2	50	0	52	9	75	0	0	84	0	0	3	0	3	337
08:00 AM	4	23	0	0	27	0	2	5	0	7	3	29	0	0	32	0	1	0	0	1	67
08:15 AM	1	39	0	0	40	0	0	2	0	2	1	17	0	0	18	0	0	1	0	1	61
08:30 AM	1	21	0	0	22	0	0	2	0	2	1	25	0	0	26	0	1	1	0	2	52
08:45 AM	3	24	0	0	27	0	1	6	0	7	3	26	0	0	29	2	0	2	0	4	67
Total	9	107	0	0	116	0	3	15	0	18	8	97	0	0	105	2	2	4	0	8	247
*** BREAK ***																					
03:00 PM	1	29	0	0	30	2	0	4	0	6	3	29	0	0	32	1	0	7	0	8	76
03:15 PM	0	37	0	0	37	0	0	6	0	6	8	34	2	0	44	0	0	1	0	1	88
03:30 PM	1	22	2	0	25	0	2	12	0	14	6	36	2	0	44	0	3	2	0	5	88
03:45 PM	3	26	0	0	29	0	2	6	0	8	10	32	1	0	43	0	2	4	0	6	86
Total	5	114	2	0	121	2	4	28	0	34	27	131	5	0	163	1	5	14	0	20	338
04:00 PM	0	29	0	0	29	0	4	7	0	11	13	58	1	0	72	0	3	5	0	8	120
04:15 PM	4	31	0	0	35	0	1	6	0	7	10	32	3	0	45	1	2	4	0	7	94
04:30 PM	0	35	1	0	36	0	0	11	0	11	17	44	1	0	62	0	2	4	0	6	115
04:45 PM	2	30	0	0	32	0	5	10	0	15	12	45	4	0	61	1	1	1	0	3	111
Total	6	125	1	0	132	0	10	34	0	44	52	179	9	0	240	2	8	14	0	24	440
05:00 PM	0	28	0	0	28	0	1	7	0	8	12	33	6	0	51	0	2	4	0	6	93
05:15 PM	3	34	1	0	38	1	1	8	0	10	11	41	3	0	55	0	4	3	0	7	110
05:30 PM	0	37	1	0	38	0	1	4	0	5	9	46	2	0	57	0	2	4	0	6	106
05:45 PM	1	26	0	0	27	0	0	8	0	8	3	49	1	0	53	0	2	1	0	3	91
Total	4	125	2	0	131	1	3	27	0	31	35	169	12	0	216	0	10	12	0	22	400
Grand Total	29	664	5	0	698	3	22	154	0	179	131	651	26	0	808	5	25	47	0	77	1762
Apprch %	4.2	95.1	0.7	0		1.7	12.3	86	0		16.2	80.6	3.2	0		6.5	32.5	61	0		
Total %	1.6	37.7	0.3	0	39.6	0.2	1.2	8.7	0	10.2	7.4	36.9	1.5	0	45.9	0.3	1.4	2.7	0	4.4	

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Default Comments
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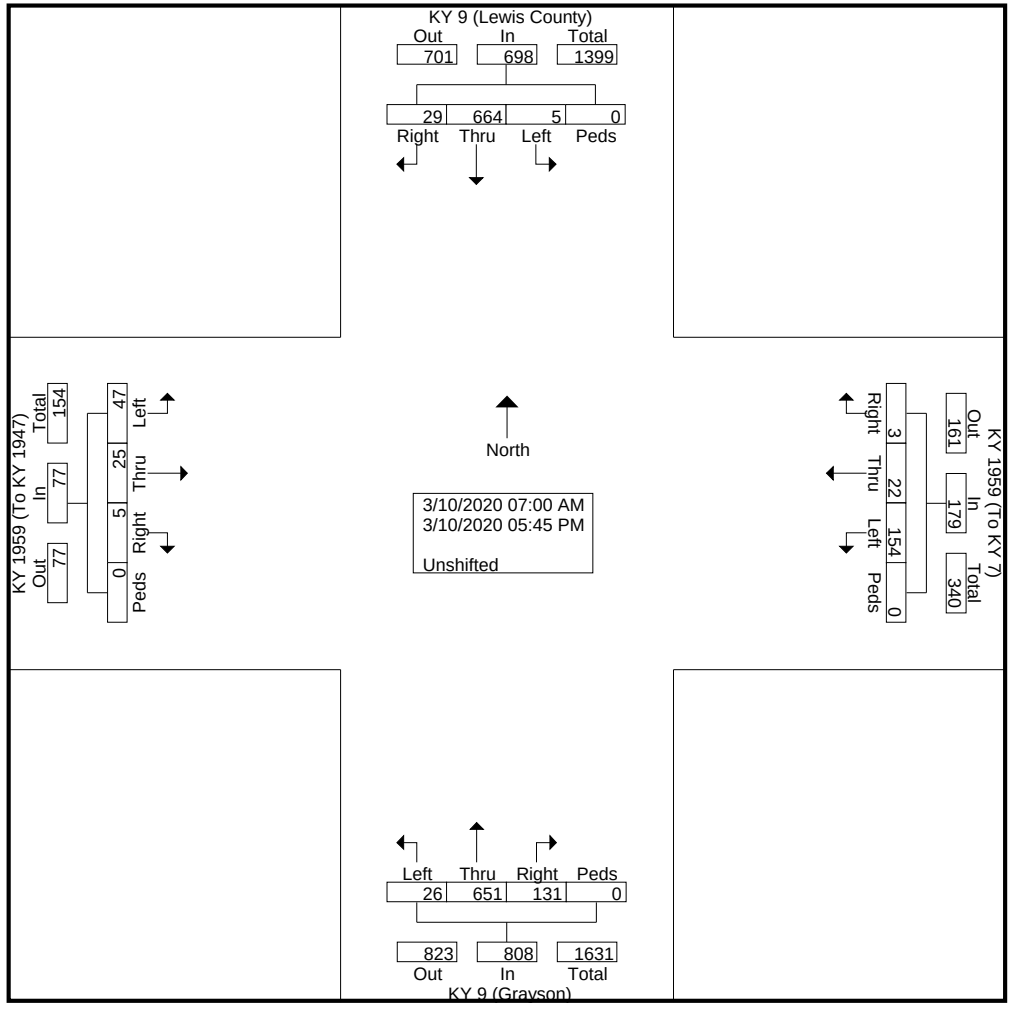
Site Code : 02291959
Start Date : 3/10/2020



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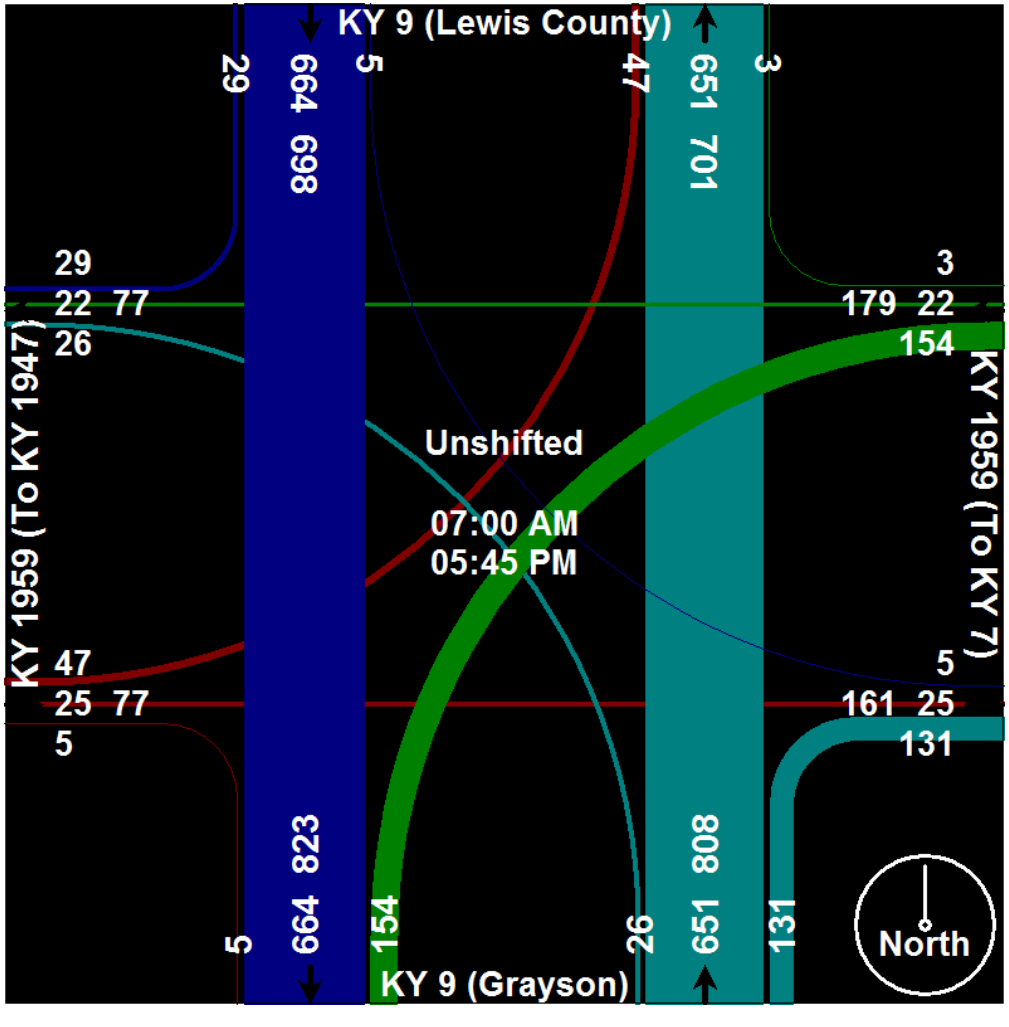
Site Code : 02291959
Start Date : 3/10/2020



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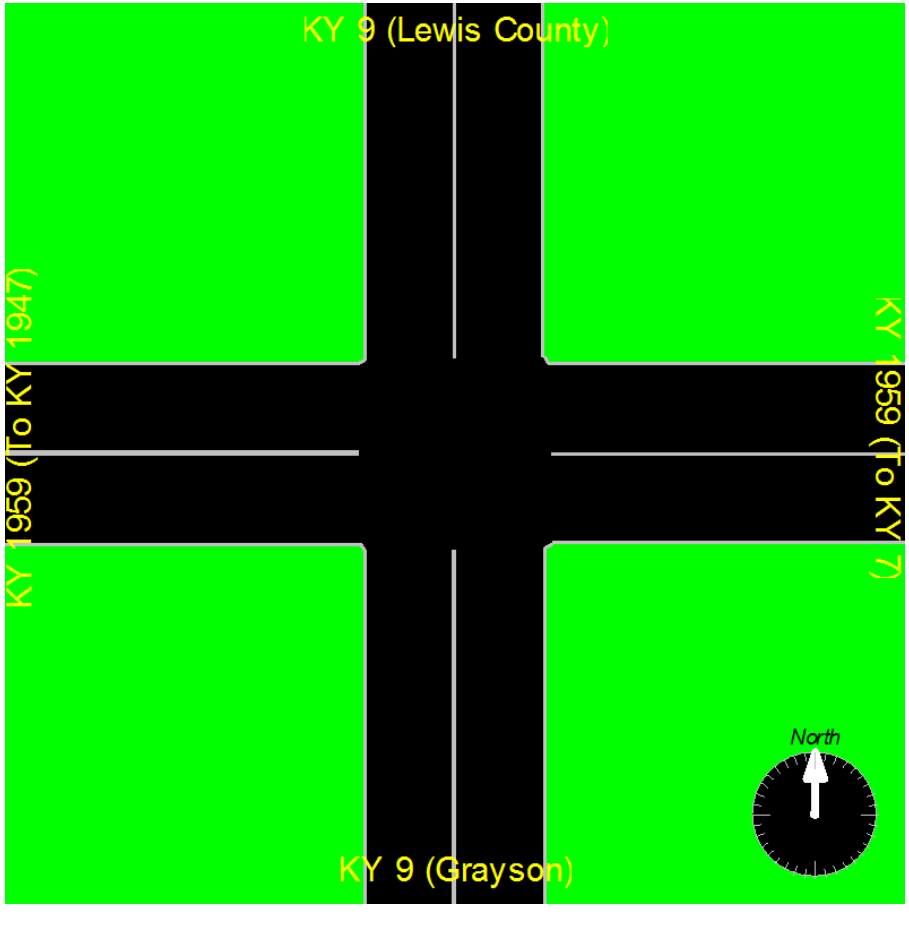
Site Code : 02291959
Start Date : 3/10/2020
Page No : 4



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Change These in The Preferences Window
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File Name : KY 9 & KY 7 (MP 5.486)
Site Code : 00022975
Start Date : 3/12/2020
Page No : 1

Groups Printed- Unshifted

	KY 9 (Vanceburg) From North					KY 7 (5.486) From East					KY 9 (Grayson) From South					From West					
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
07:00 AM	0	51	0	0	51	1	0	1	0	2	0	14	0	0	14	0	0	0	0	0	67
07:15 AM	0	66	0	0	66	0	0	1	0	1	0	15	0	0	15	0	0	0	0	0	82
07:30 AM	0	56	0	0	56	2	0	0	0	2	0	22	0	0	22	0	0	0	0	0	80
07:45 AM	0	35	0	0	35	0	0	3	0	3	1	32	0	0	33	0	0	0	0	0	71
Total	0	208	0	0	208	3	0	5	0	8	1	83	0	0	84	0	0	0	0	0	300
08:00 AM	0	27	0	0	27	0	0	2	0	2	1	27	0	0	28	0	0	0	0	0	57
08:15 AM	0	32	0	0	32	1	0	1	0	2	0	22	0	0	22	0	0	0	0	0	56
08:30 AM	0	42	0	0	42	0	0	1	0	1	0	30	0	0	30	0	0	0	0	0	73
08:45 AM	0	28	0	0	28	2	0	0	0	2	0	21	0	0	21	0	0	0	0	0	51
Total	0	129	0	0	129	3	0	4	0	7	1	100	0	0	101	0	0	0	0	0	237
*** BREAK ***																					
03:30 PM	0	33	1	0	34	0	0	0	0	0	1	53	0	0	54	0	0	0	0	0	88
03:45 PM	0	21	2	0	23	0	0	1	0	1	0	42	0	0	42	0	0	0	0	0	66
Total	0	54	3	0	57	0	0	1	0	1	1	95	0	0	96	0	0	0	0	0	154
04:00 PM	0	37	2	0	39	1	0	0	0	1	0	41	0	0	41	0	0	0	0	0	81
04:15 PM	0	34	1	0	35	0	0	2	0	2	1	48	0	0	49	0	0	0	0	0	86
04:30 PM	0	28	0	0	28	3	0	0	0	3	0	42	0	0	42	0	0	0	0	0	73
04:45 PM	0	29	1	0	30	1	0	0	0	1	2	43	0	0	45	0	0	0	0	0	76
Total	0	128	4	0	132	5	0	2	0	7	3	174	0	0	177	0	0	0	0	0	316
05:00 PM	0	48	1	0	49	2	0	1	0	3	1	40	0	0	41	0	0	0	0	0	93
05:15 PM	0	28	1	0	29	0	0	1	0	1	3	38	0	0	41	0	0	0	0	0	71
Grand Total	0	595	9	0	604	13	0	14	0	27	10	530	0	0	540	0	0	0	0	0	1171
Apprch %	0	98.5	1.5	0		48.1	0	51.9	0		1.9	98.1	0	0		0	0	0	0		
Total %	0	50.8	0.8	0	51.6	1.1	0	1.2	0	2.3	0.9	45.3	0	0	46.1	0	0	0	0	0	

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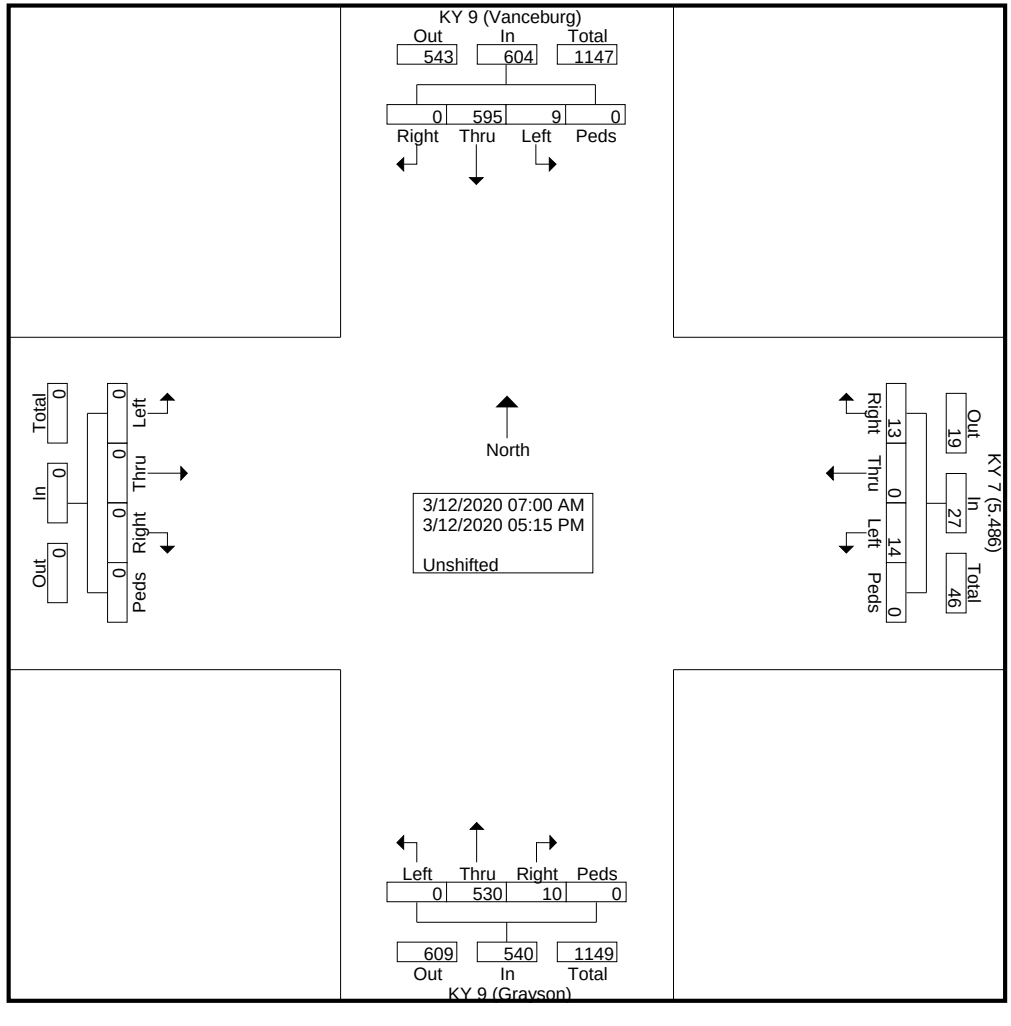
File Name : KY 9 & KY 7 (MP 5.486)
Site Code : 00022975
Start Date : 3/12/2020
Page No : 2



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Start Date : 3/12/2020
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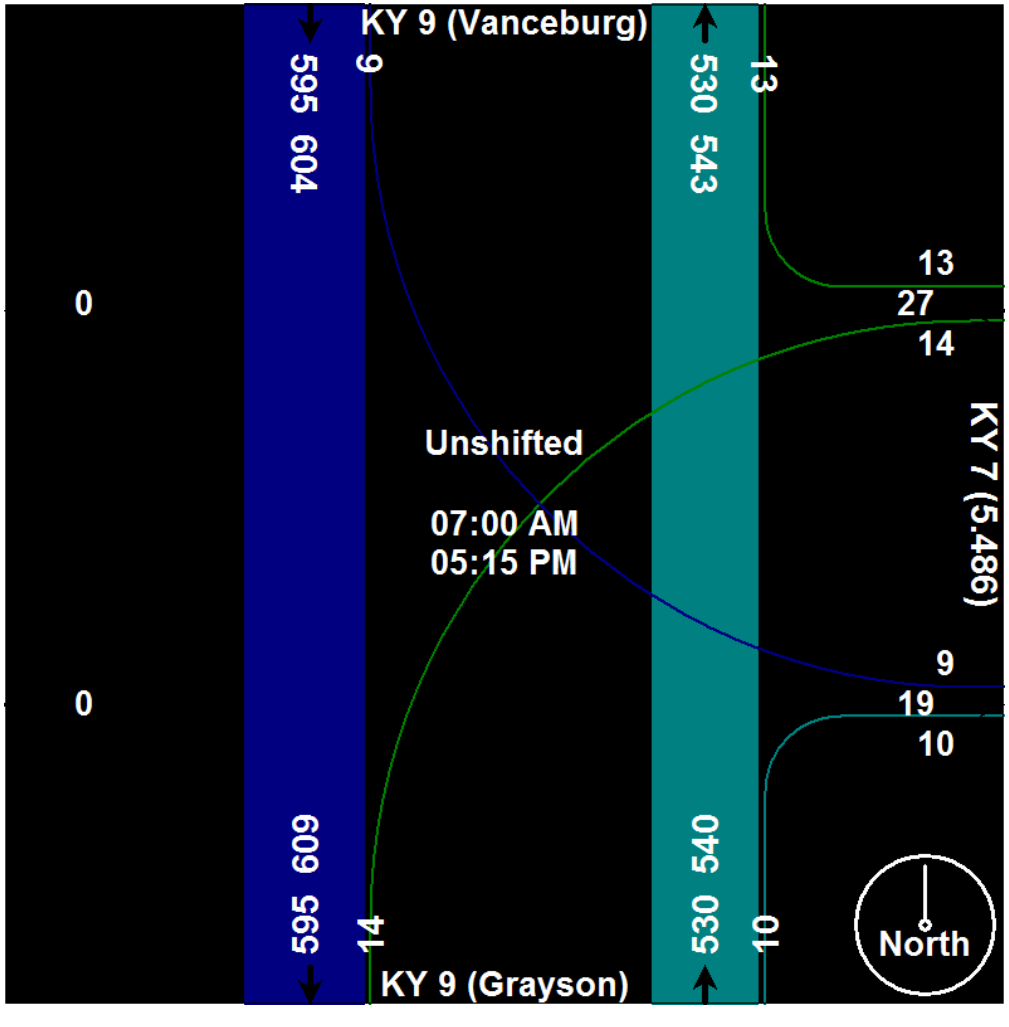

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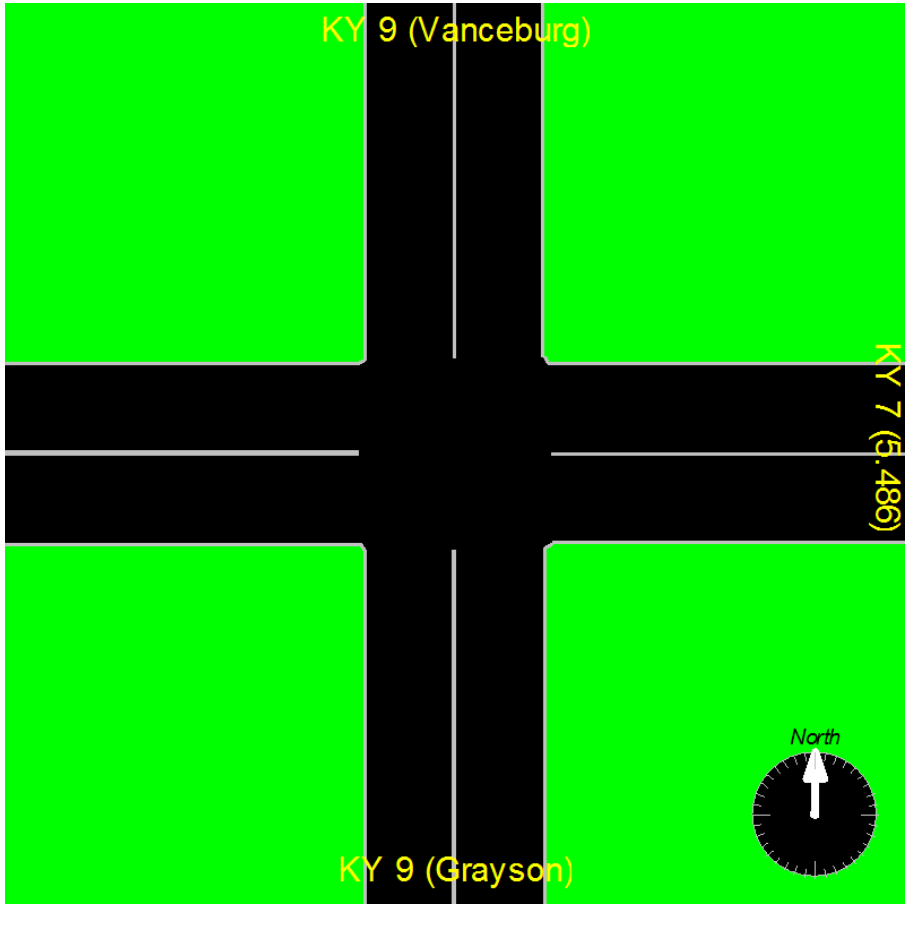

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Select File/Preference in the Main Scree
Then Click the Comments Tab

File Name : KY 9 & KY 7 (MP 6.498)
Site Code : 00022976
Start Date : 3/12/2020
Page No : 1

Groups Printed- Unshifted

	From North					KY 9 (Grayson) From East					KY 7 (6.498) From South					KY 9 (Lewis County) From West					
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	14	4	0	18	11	0	0	0	11	0	33	0	0	33	62
07:15 AM	0	0	0	0	0	0	8	9	0	17	21	0	0	0	21	0	34	0	0	34	72
07:30 AM	0	0	0	0	0	0	13	9	0	22	20	0	0	0	20	0	41	0	0	41	83
07:45 AM	0	0	0	0	0	0	16	11	0	27	8	0	0	0	8	0	23	0	0	23	58
Total	0	0	0	0	0	0	51	33	0	84	60	0	0	0	60	0	131	0	0	131	275
08:00 AM	0	0	0	0	0	0	23	5	0	28	4	0	0	0	4	1	19	0	0	20	52
08:15 AM	0	0	0	0	0	0	20	4	0	24	8	0	0	0	8	1	23	0	0	24	56
08:30 AM	0	0	0	0	0	0	24	7	0	31	9	0	0	0	9	0	32	0	0	32	72
08:45 AM	0	0	0	0	0	0	12	4	0	16	6	0	0	0	6	0	21	0	0	21	43
Total	0	0	0	0	0	0	79	20	0	99	27	0	0	0	27	2	95	0	0	97	223
*** BREAK ***																					
03:30 PM	0	0	0	0	0	0	32	17	0	49	5	0	0	0	5	0	30	0	0	30	84
03:45 PM	0	0	0	0	0	0	35	7	0	42	7	0	0	0	7	0	18	0	0	18	67
Total	0	0	0	0	0	0	67	24	0	91	12	0	0	0	12	0	48	0	0	48	151
04:00 PM	0	0	0	0	0	0	33	7	0	40	6	0	0	0	6	0	31	0	0	31	77
04:15 PM	0	0	0	0	0	0	35	7	0	42	6	0	1	0	7	0	26	0	0	26	75
04:30 PM	0	0	0	0	0	0	26	13	0	39	4	0	0	0	4	0	23	0	0	23	66
04:45 PM	0	0	0	0	0	0	36	8	0	44	6	0	0	0	6	1	26	0	0	27	77
Total	0	0	0	0	0	0	130	35	0	165	22	0	1	0	23	1	106	0	0	107	295
05:00 PM	0	0	0	0	0	0	31	6	0	37	8	0	0	0	8	0	35	0	0	35	80
05:15 PM	0	0	0	0	0	0	27	10	0	37	4	0	0	0	4	1	28	0	0	29	70
Grand Total	0	0	0	0	0	0	385	128	0	513	133	0	1	0	134	4	443	0	0	447	1094
Apprch %	0	0	0	0		0	75	25	0		99.3	0	0.7	0		0.9	99.1	0	0		
Total %	0	0	0	0	0	0	35.2	11.7	0	46.9	12.2	0	0.1	0	12.2	0.4	40.5	0	0	40.9	

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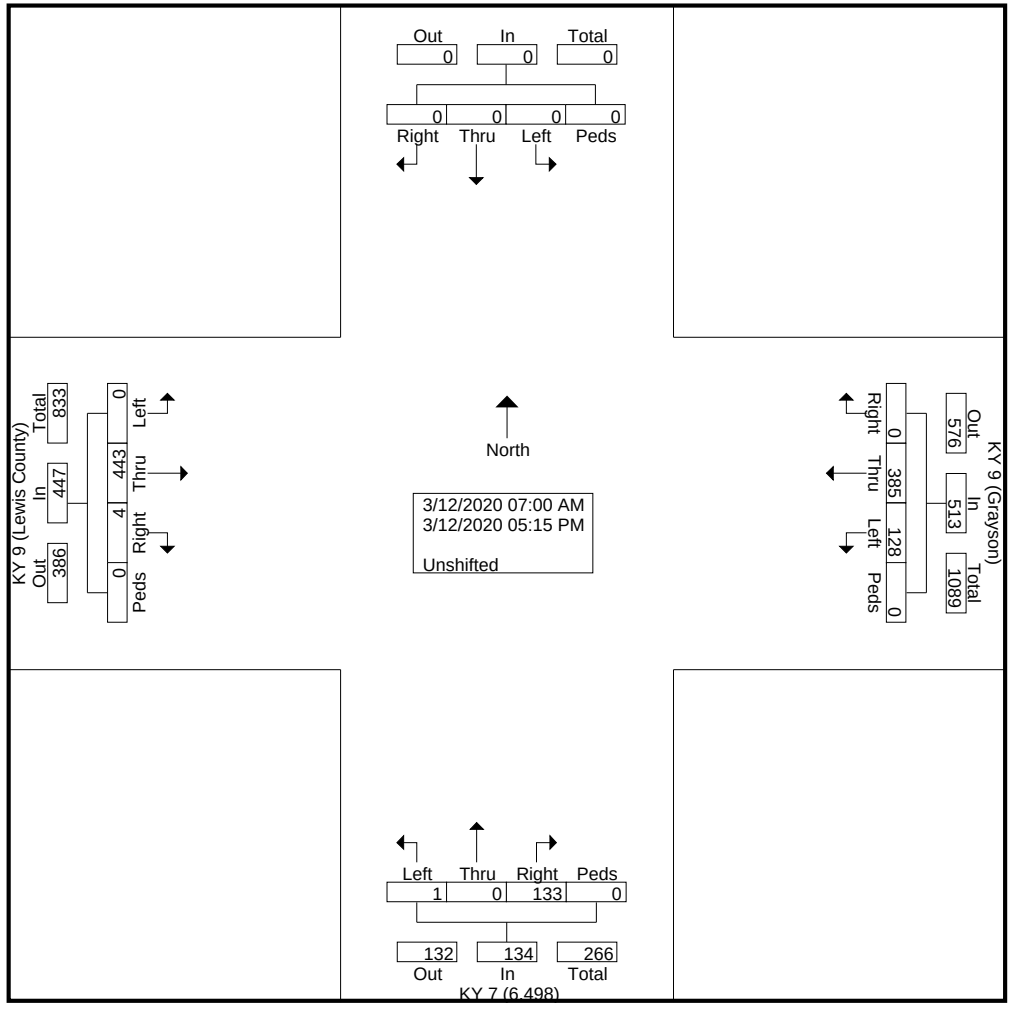
File Name : KY 9 & KY 7 (MP 6.498)
Site Code : 00022976
Start Date : 3/12/2020
Page No : 2



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Your Tagline Here

Default Comments
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File Name : KY 9 & KY 7 (MP 6.498)
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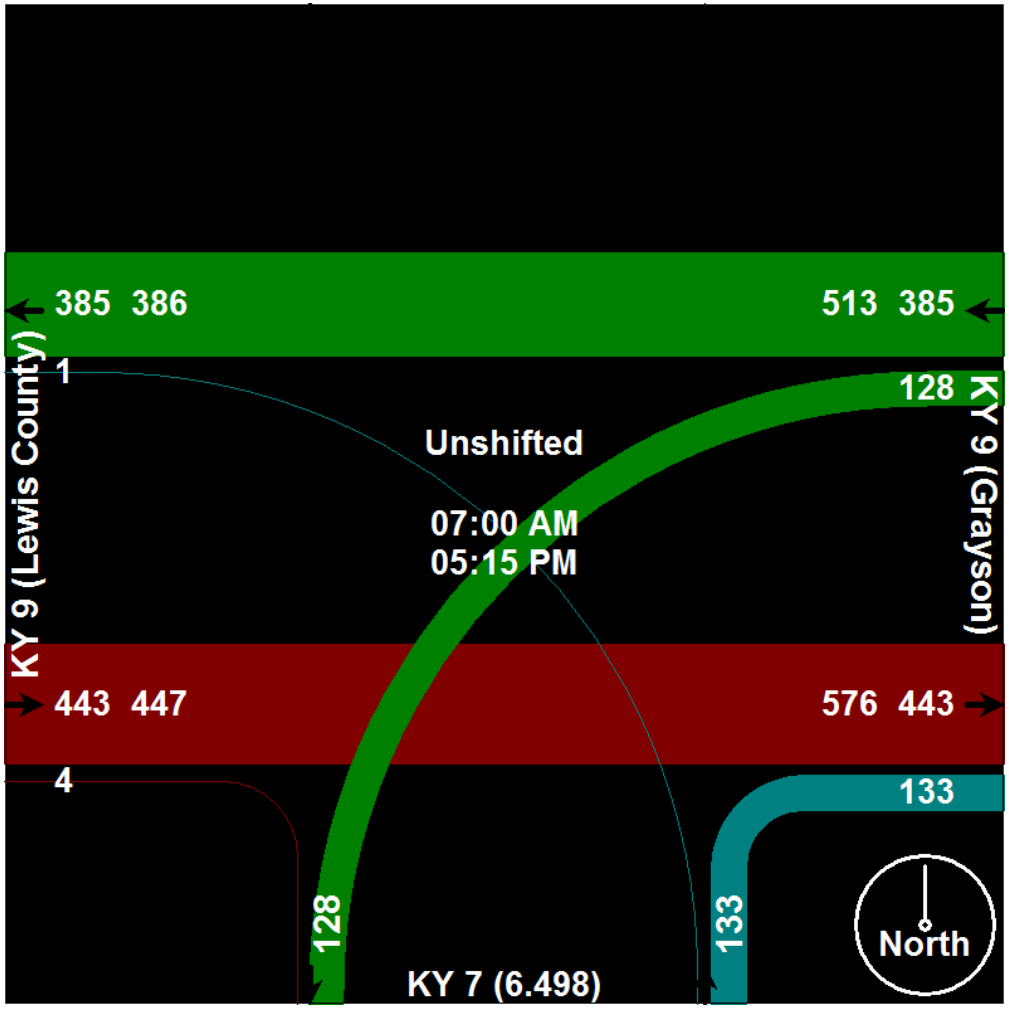
Start Date : 3/12/2020
Page No : 3



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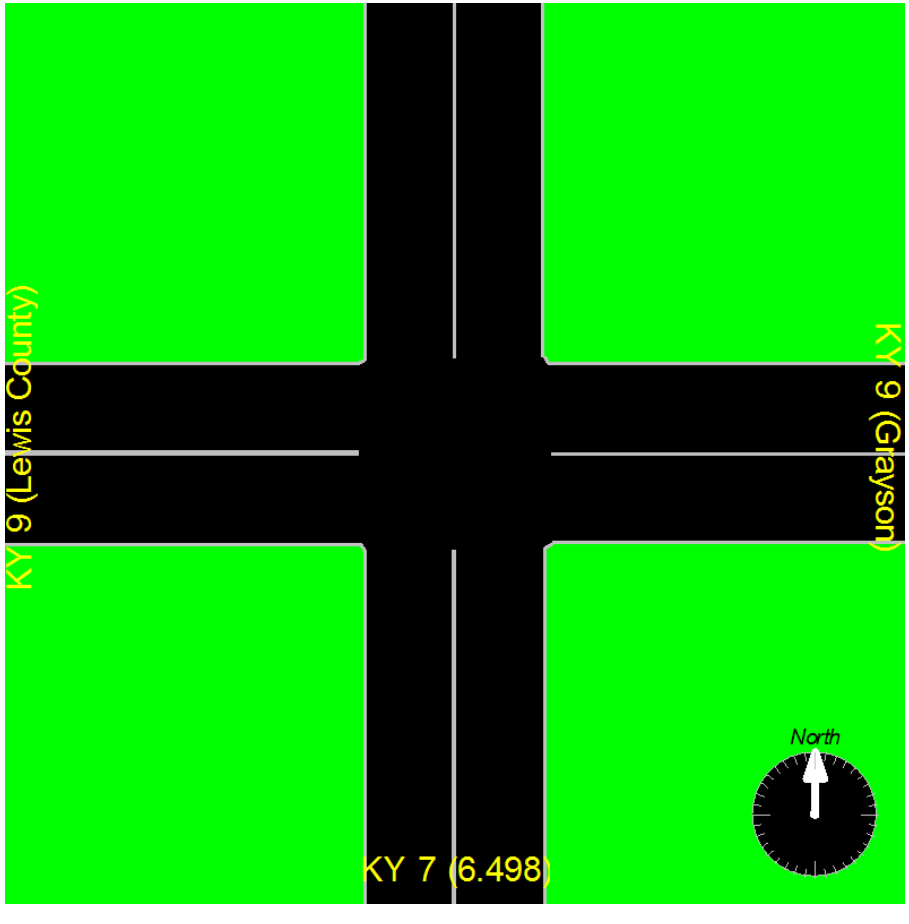
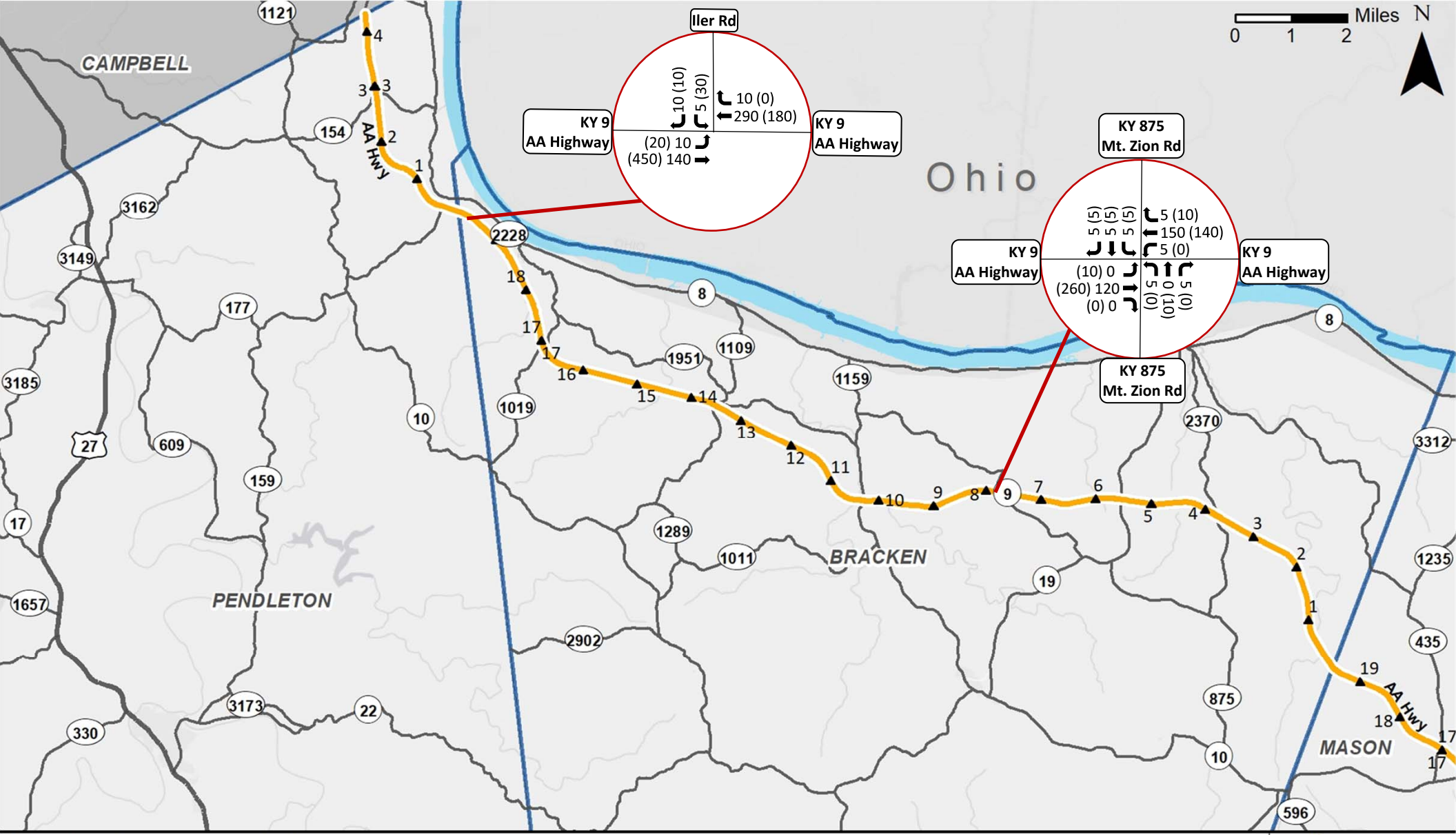


TRAFFIC FORECAST REPORT

APPENDIX B:

2020 TURNING MOVEMENT FORECASTS



AA Highway Improvements Study

Turning Movement Count Overview

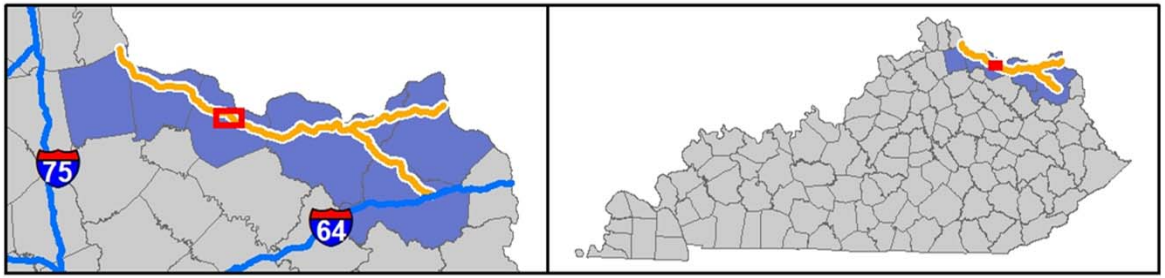
Study Area

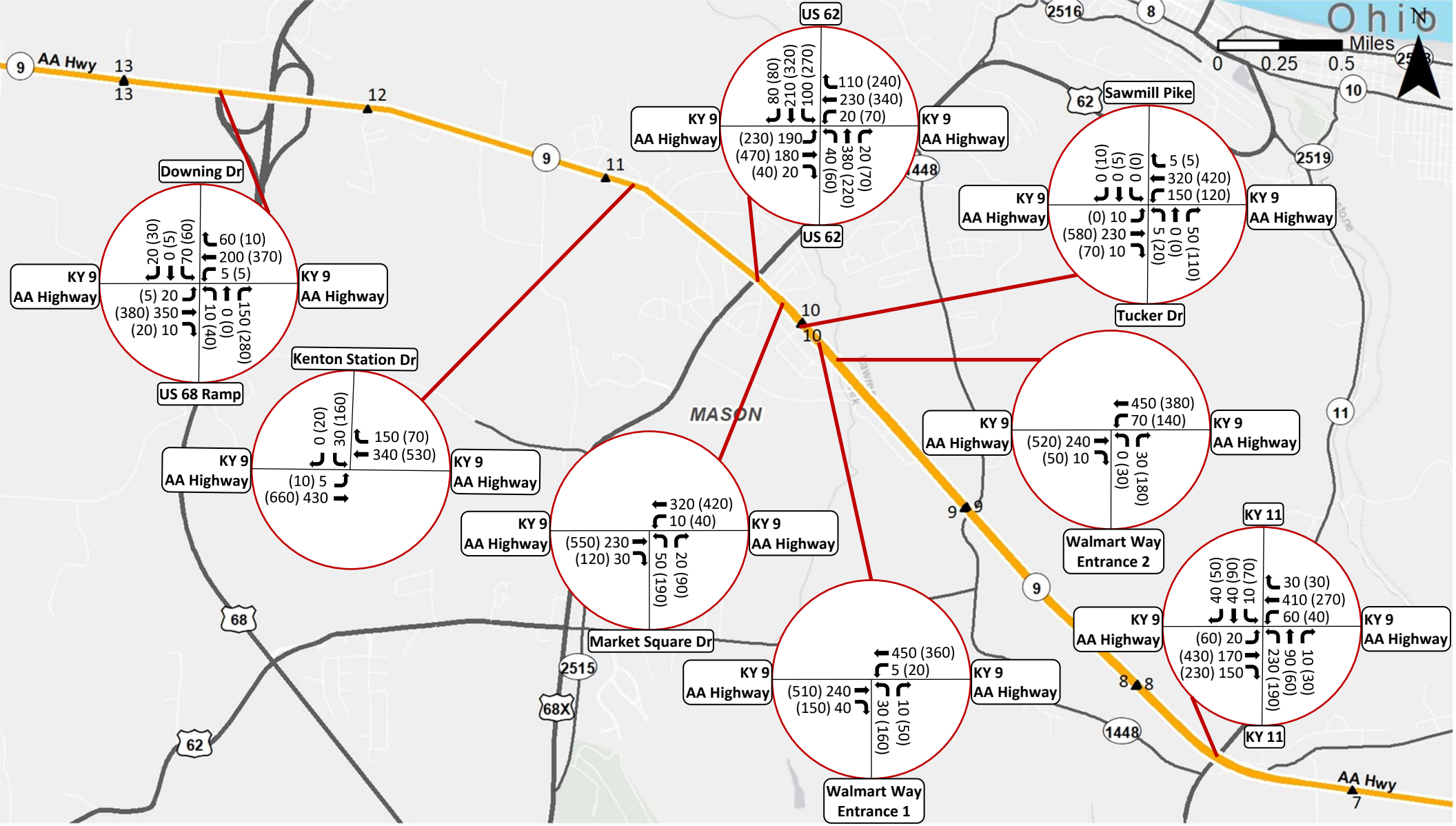
Milepoints

County Line

2020 EXISTING CONDITIONS

AM (PM) Peak Hour Turn Volumes





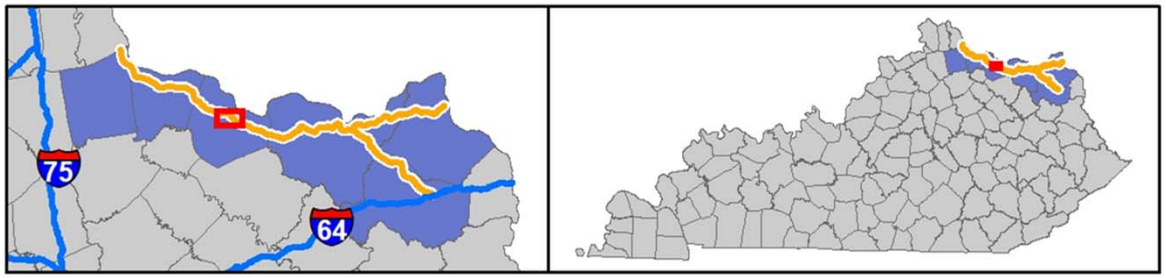
AA Highway Improvements Study

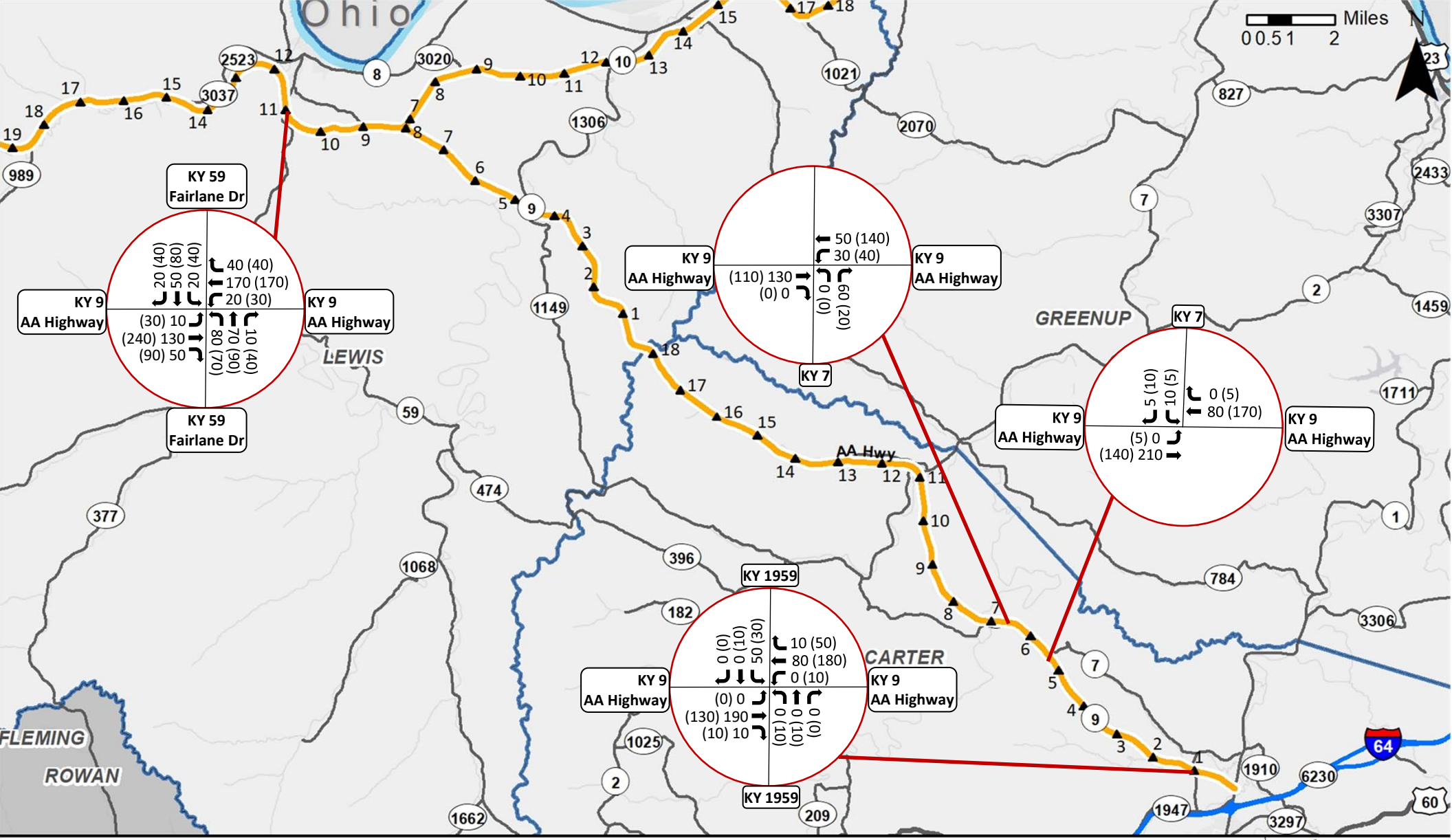
Turning Movement Count Overview

- Study Area
- Milepoints
- County Line

2020 EXISTING CONDITIONS

AM (PM) Peak Hour Turn Volumes





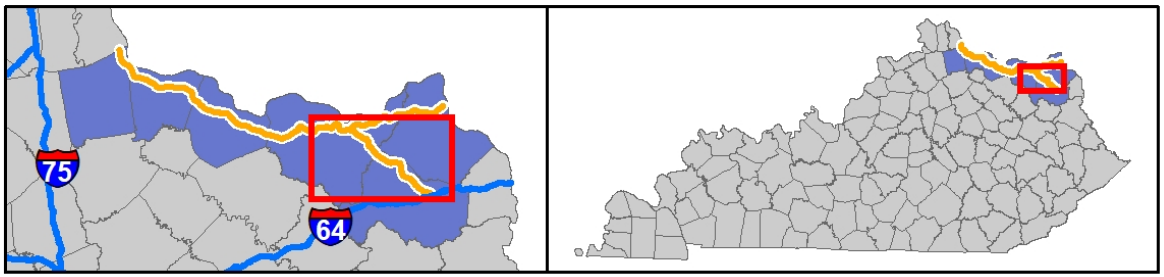
AA Highway Improvements Study

Turning Movement Count Overview

- Study Area
- Interstate
- Milepoints
- County Line

2020 EXISTING CONDITIONS

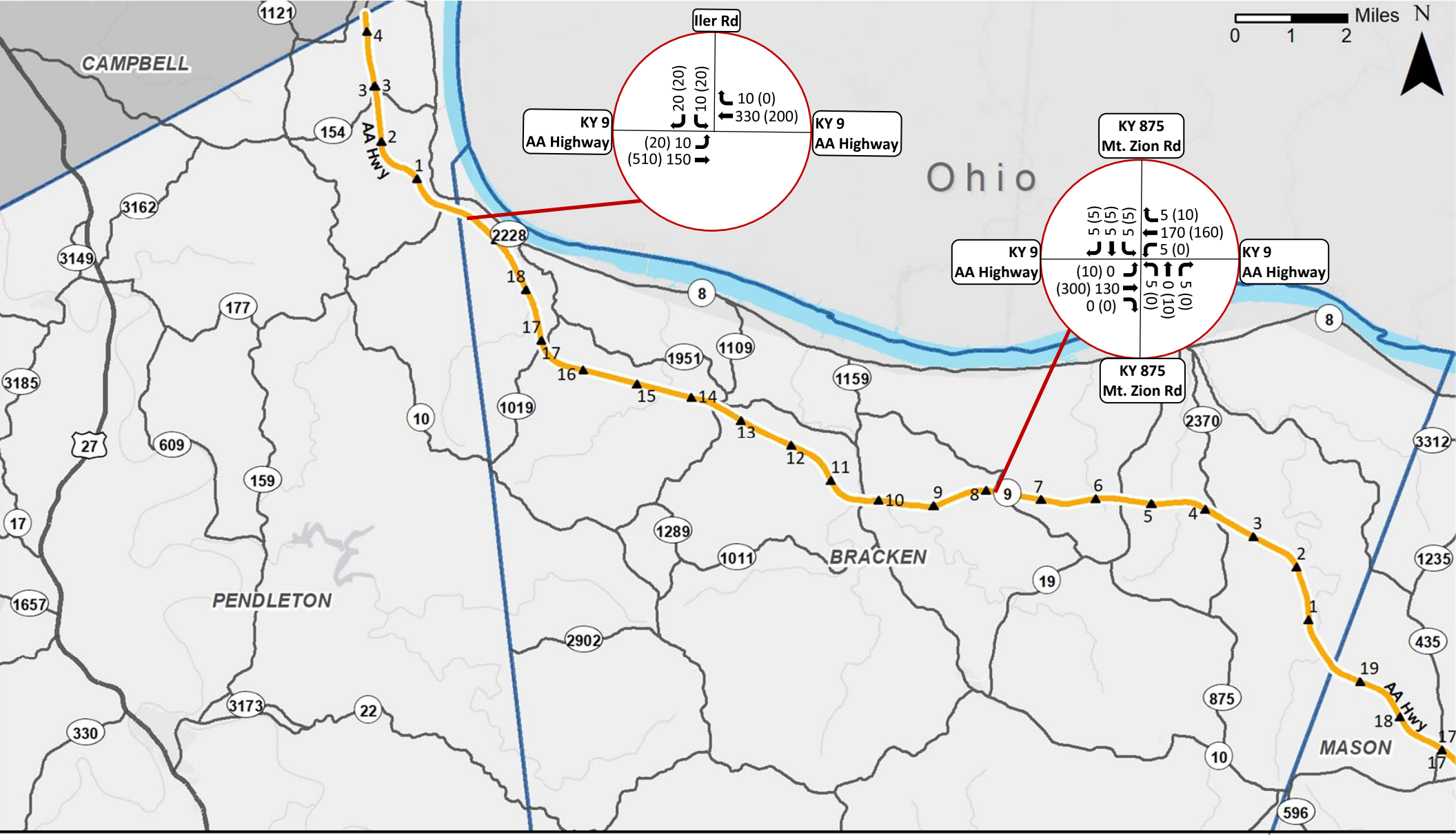
AM (PM) Peak Hour Turn Volumes



TRAFFIC FORECAST REPORT

APPENDIX C:

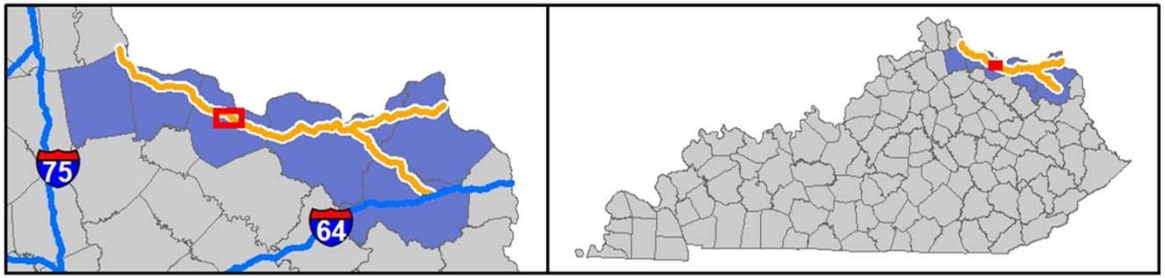
2045 TURNING MOVEMENT FORECASTS

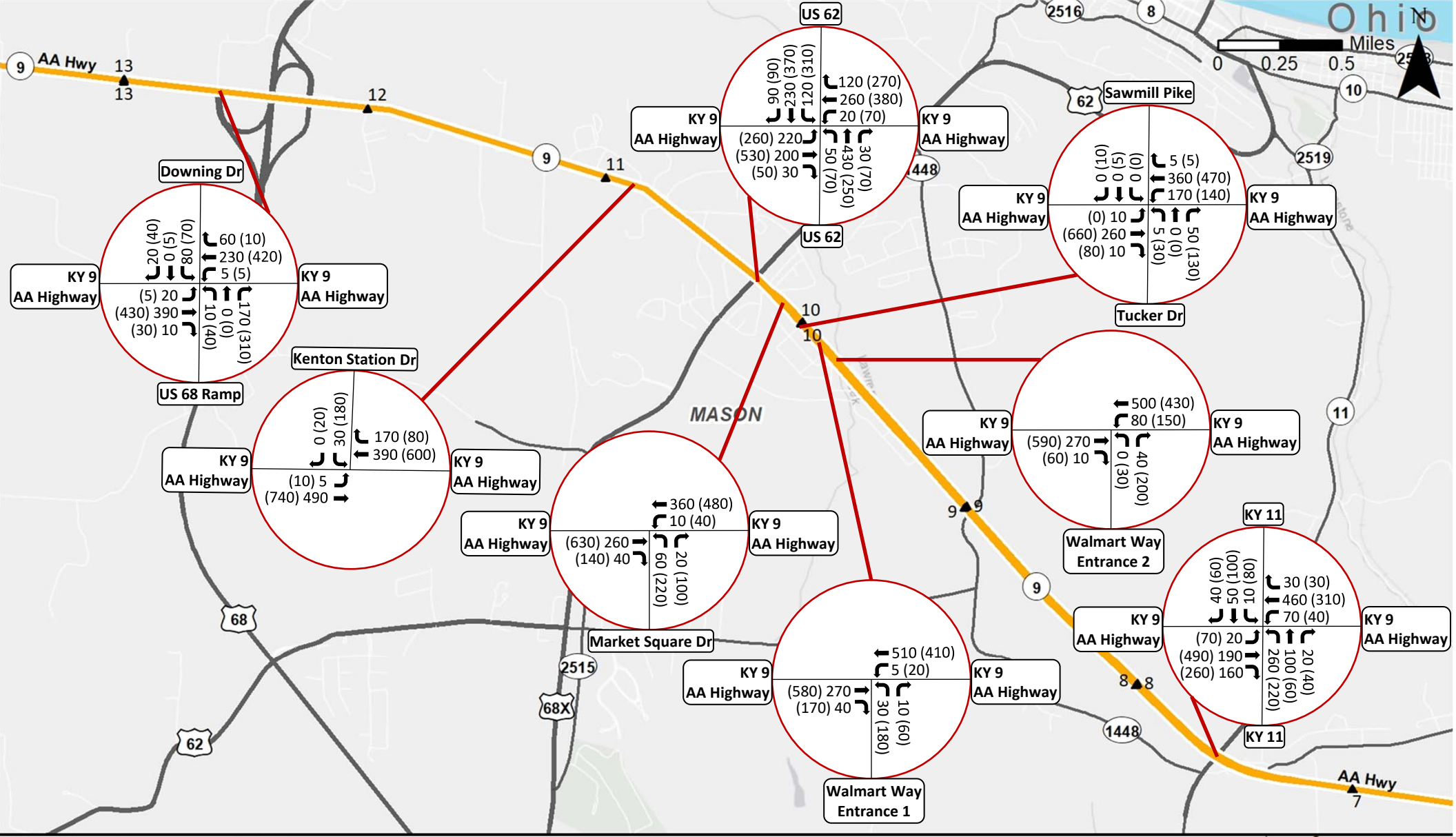


AA Highway Improvements Study
Turning Movement Count Overview

- Study Area
- Milepoints
- County Line

2045
NO BUILD
CONDITIONS
AM (PM) Peak Hour Turn Volumes





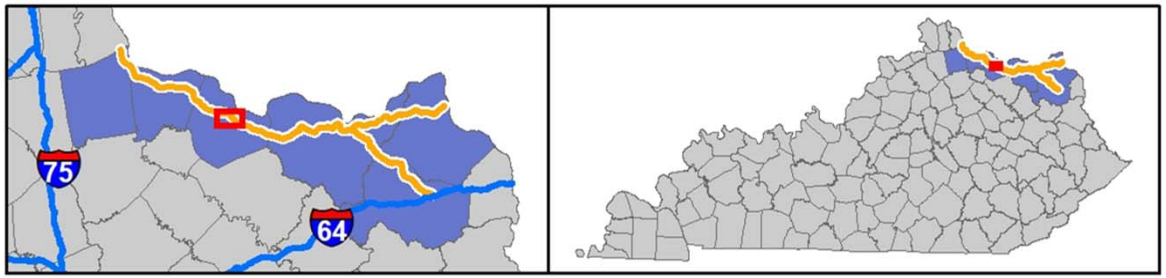
AA Highway Improvements Study

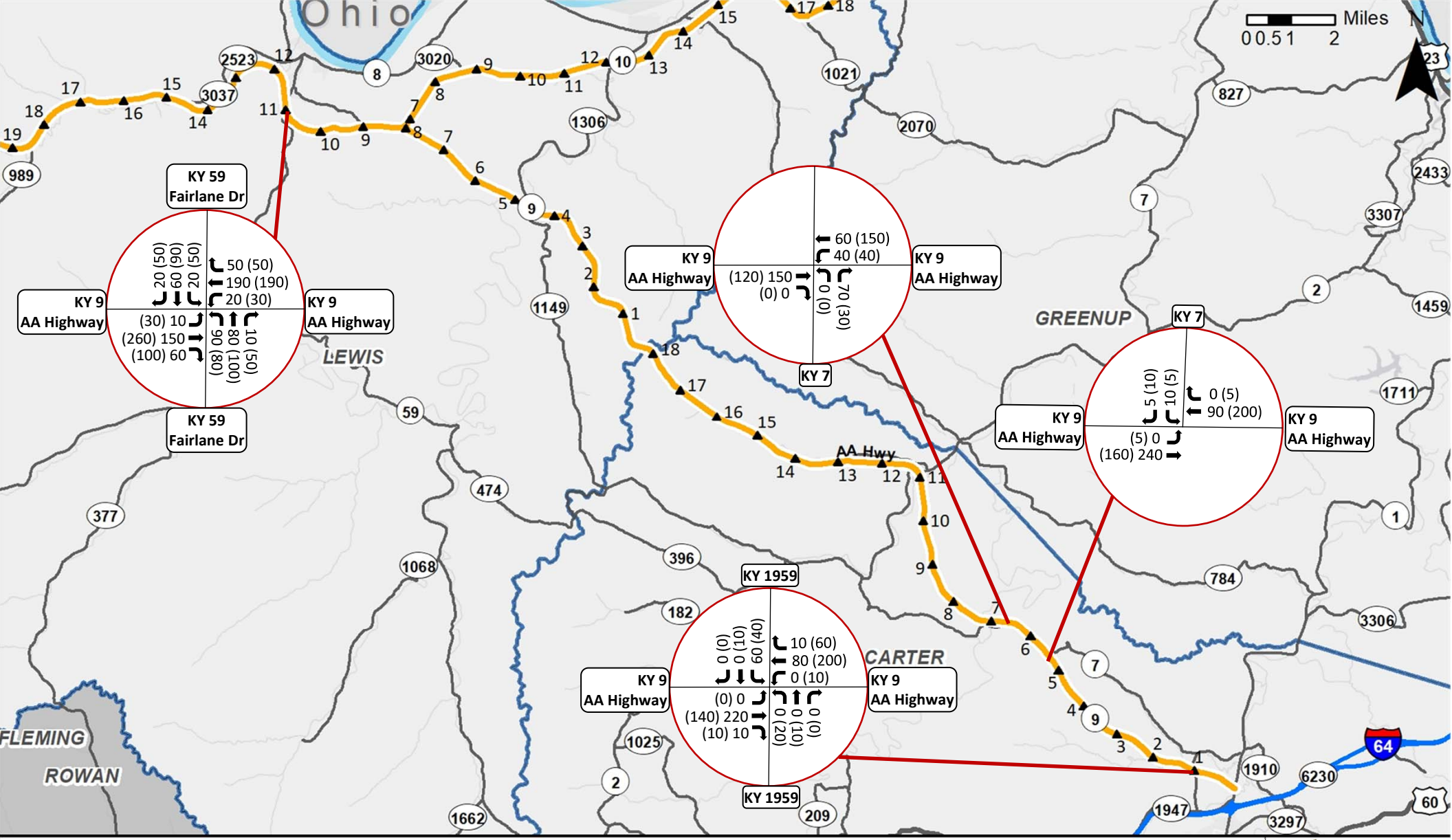
Turning Movement Count Overview

- Study Area
- Milepoints
- County Line

2045 NO BUILD CONDITIONS

AM (PM) Peak Hour Turn Volumes





AA Highway Improvements Study

Turning Movement Count Overview

- Study Area
- Interstate
- Milepoints
- County Line

2045 NO BUILD CONDITIONS

AM (PM) Peak Hour Turn Volumes

