

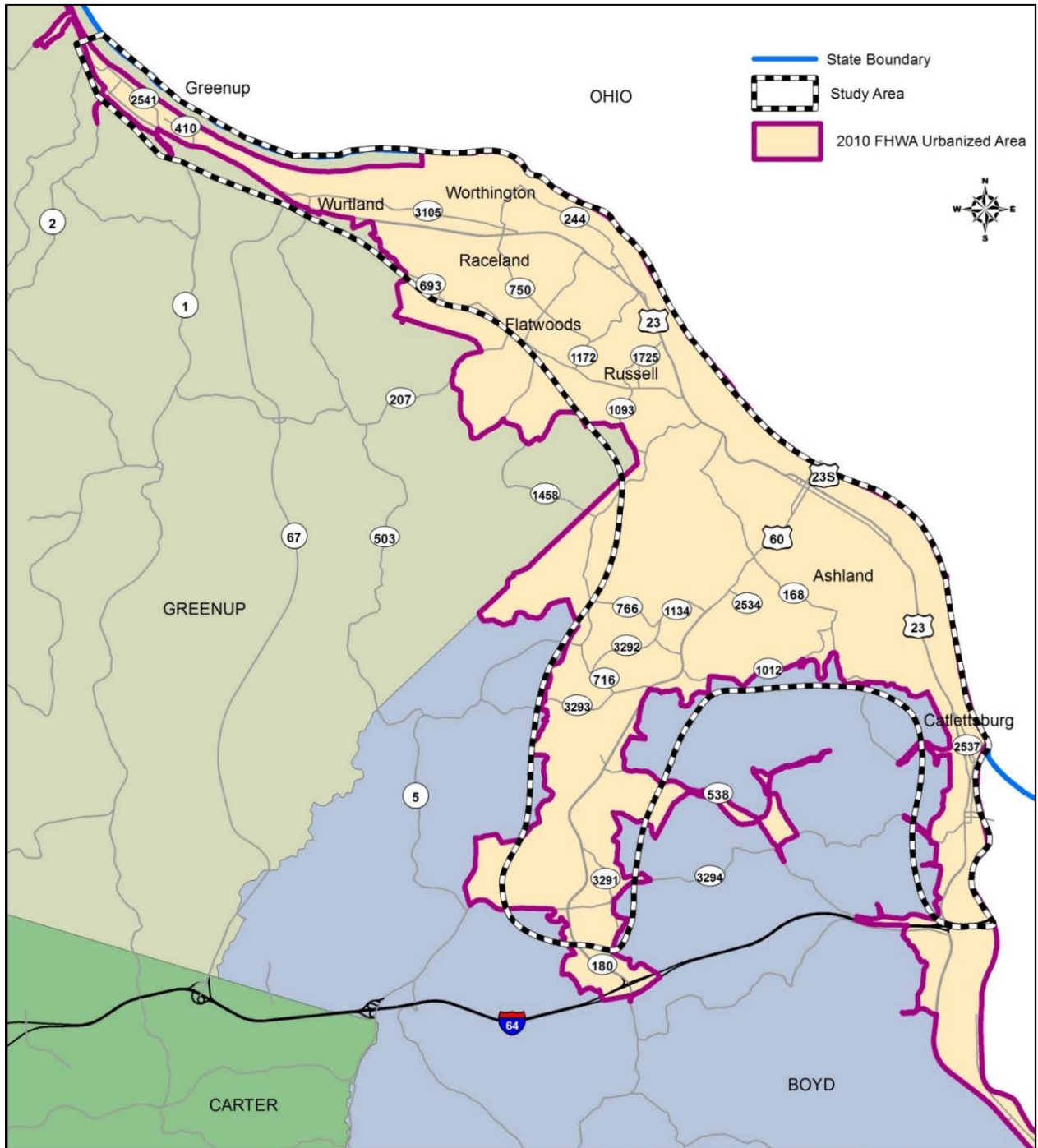
**Appendix A – Traffic Forecast Report**

# BOYD and GREENUP COUNTIES

Item No. 9-406.00

## Traffic Forecast Report

### Small Urban Area Study



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Appendix A: Segment Level Traffic Forecasts

## 1.0 PROJECT DESCRIPTION

The Kentucky Transportation Cabinet (KYTC) initiated a Small Urban Area (SUA) study for the urbanized areas of Boyd and Greenup Counties, Kentucky. The SUA study identified and examined transportation issues related to safety and congestion in the corresponding cities and surrounding developed areas. Boyd and Greenup counties are part of the Kentucky, Ohio and West Virginia Interstate Planning Commission (KYOVA), the Metropolitan Planning Organization (MPO) for the tristate area of West Virginia, Kentucky, and Ohio. Both counties are included in the Five County Area Development District (FIVCO).

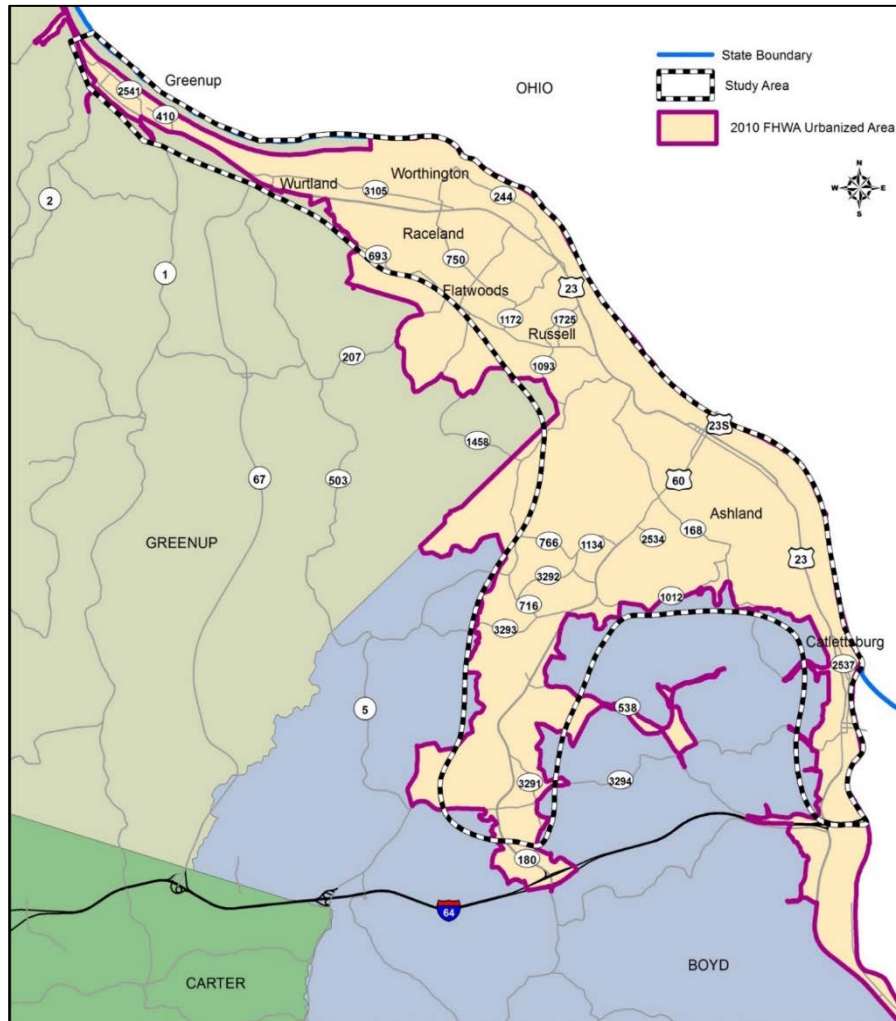


Figure 1: Study Area

The study area, illustrated in **Figure 1**, mostly encompasses urbanized areas in Boyd and Greenup counties. The study boundary begins at I-64 in Boyd County, passes through the city of Ashland including the US 60 corridor, and extends past the Industrial Parkway (KY 67) to the city of Greenup in Greenup County. The study area covers roughly 50 square miles. SUA study efforts were focused on approximately 90 miles of state-maintained routes functionally classified as collectors and arterials, and nearly 11 miles of local routes integral to traffic operations within study area boundaries. Study area routes are listed in **Table 1** and **Table 2**.

This report summarizes methodologies and analysis procedures associated with the development of traffic analyses to support the small urban area study.

Table 1: Boyd County Study Routes

Boyd	Road Name	BMP	EMP
US 23	WINCHESTER AVE	10.600	20.938
US 23S	13TH ST	0.000	0.483
US 23S-1	MARTIN LUTHER KING BLVD	0.483	0.000
US 23X	WINCHESTER AVE	0.000	1.796
US 60	US ROUTE 60	3.100	12.409
US 60	US ROUTE 60	12.409	12.880
US 60	MARTIN LUTHER KING BLVD	11.752	12.128
US 60	10TH ST	12.329	12.409
KY 5	KY 5	6.647	7.578
KY 5	BELLEFONTE PRINCESS RD	9.700	10.781
KY 168	KY 168	0.000	0.670
KY 168	KY 168	2.574	8.179
KY 180	KY 180	1.900	2.514
KY 538	SHOPES CREEK	0.000	1.000
KY 538	LAKE BONITA RD	6.200	6.617
KY 716	KY 716	0.000	1.565
KY 766	BOB MCCULLOUGH DR	0.000	2.044
KY 1012	BOY SCOUT RD	0.000	3.036
KY 1134	ROBERTS DR	0.000	0.897
KY 2534	BERRY ST	0.000	0.178
KY 2535	23RD ST UNDERPASS	0.000	0.065
KY 2536	23RD ST	0.000	0.043
KY 2537	BROADWAY ST	0.000	0.404
KY 3291	MIDLAND TRL	0.300	2.135
KY 3292	ROBERTS DR	0.000	1.174
KY 3293	LITTLE GARNER RD	1.000	2.407
KY 3294	CANNONSBURG RD	0.000	1.200
KY 3295	KY 3294	6.500	9.445
KY 3533	HALEE LN	0.000	0.166
CR-1047	W CENTRAL AVE	0.000	0.797
CS-2349	6TH ST	0.000	0.752
CS-2350	CENTRAL AVE	0.000	2.441
CS-2492	LEXINGTON AVE	0.000	1.281
CS-2530	CARTER AVE	0.000	2.282
CS-2615	RIVER HILL DR	0.000	0.368

Table 2: Greenup County Study Routes

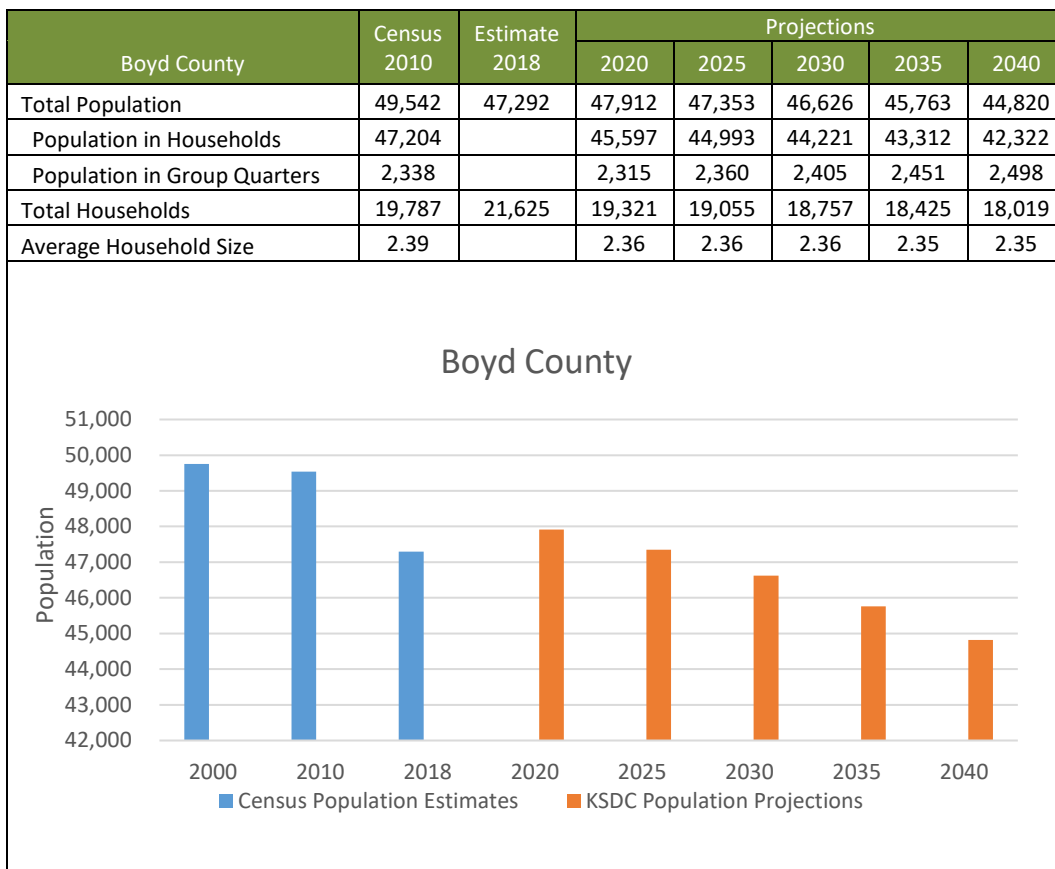
Greenup	Road Name	BMP	EMP
US 23	US 23	0.000	12.100
KY 1	E K RD	16.500	17.126
KY 2	KY HWY 2	17.000	17.463
KY 5	BELLEFONTE PRINCESS RD	0.000	0.792
KY 67	INDUSTRIAL PKWY	12.900	13.039
KY 207	BELLEFONTE PRINCESS RD	15.590	17.645
KY 244	STEWART AVE	0.000	3.654
KY 410	E MAIN ST	0.000	0.681
KY 503	KY HWY 503	9.000	9.287
KY 693	DIEDERICK BLVD	0.000	5.812
KY 750	LEXINGTON AVE	0.000	3.713
KY 1093	COUNTRY CLUB DR	0.000	1.954
KY 1172	RED DEVIL LN	0.000	0.482
KY 1725	ASHLAND DR	0.000	0.905
KY 2541	MAIN ST	0.000	1.619
KY 2543	FERRY ST	0.000	0.153
KY 3105	GREENUP AVE	0.000	3.823
CR-1948	RIVERSIDE BLVD	0.000	1.543
CS-5009	RIVERSIDE DR	0.000	1.318
CS-7006	INDUSTRIAL RD	0.000	0.107

## 2.0 DATA COLLECTION EFFORTS

KYTC provided Qk4 with available existing traffic volumes for study area roadways, including truck percentages, K-factors, and peak hour directional distributions as available. Most traffic volumes were collected from 2014 to 2018. To grow this data to 2020 levels, historic traffic counts for each segment were used to determine a growth rate for that roadway section. These growth rates were then used to project the latest KYTC counts to 2020. Using this methodology, some counts showed negative growth. For all segments showing negative growth, a growth rate of zero was used for both cars and trucks. The results of this analysis showed historic annual growth rates ranging from negative to four percent on a couple of routes. According to the Kentucky State Data Center (KSDC)<sup>1</sup> most segments showed little to no growth, corresponding to overall population growth in Boyd and Greenup County (Table 3 and Table 4). Population projections in both counties show continuous decline through 2040.

No additional traffic counts were collected. District Nine personnel were to provide intersection turning movement counts, if desired. No new turning movement counts have been provided to date.

Table 3: KSDC Boyd County Population Forecasts



<sup>1</sup>The Kentucky State Data Center (KSDC) is the state’s lead agency in the U.S. Census Bureau’s [State Data Center Program](#) and Kentucky’s official clearinghouse for Census data. The State Data Center program was initiated by the U.S. Census Bureau in 1978 in order to facilitate the dissemination of Census data to data users across the state and to provide a vehicle for user feedback to the Census Bureau. The Kentucky State Data Center is housed in the [Department of Urban and Public Affairs](#) in the [College of Arts and Sciences](#) at the [University of Louisville](#).

Table 4: KSDC Greenup County Population Forecasts

Greenup County	Census 2010	Estimate 2018	Projections				
			2020	2025	2030	2035	2040
Total Population	36,910	35,335	35,475	34,686	33,706	32,570	31,407
Population in Households	36,456		35,017	34,224	33,240	32,100	30,933
Population in Group Quarters	454		458	462	466	470	474
Total Households	14,671	16,342	14,654	14,571	14,399	14,098	13,759
Average Household Size	2.48		2.39	2.35	2.31	2.28	2.25

### 3.0 KYOVA TRAVEL DEMAND MODEL

KYOVA’s 2018 Travel Demand Model was built using a 2015 base year, model script version 9-4-2018, having no significant build changes since. Year 2050 forecasts were generated using KYOVA’s Travel Demand Model with a 2050 horizon year. The year 2020 served as the “existing” baseline scenario. Future year No-Build and Build forecasts were determined. The KYOVA model runs in TransCAD7, which meshes best with 32-bit software packages and is a 24-hour model, with no time-of-day components. Truck trips are assigned based on origin-destination data.

#### 3.1 Future Year Traffic

The KYOVA Travel Demand Model was used to determine future year growth for all study area roadway segments. Regional growth has been static, even trending downward based on some estimates. According to local officials, Braidy Industries is planning to open a major industrial facility west of the study area although the timeline is uncertain. Based on latest estimates showing approximately 650 jobs at the facility by 2021 with an additional 3,600 satellite jobs supporting its operations, an assumed 3000 additional jobs were included in KYOVA’s Traffic Demand Model. Braidy Industries future plant is located outside the study boundary but is expected to impact regional traffic volumes and patterns.

In recent weeks, Braidy Industries future has become uncertain. However, 2050 traffic volumes based on predicted job creation included in the KYOVA Traffic Model are conservative and remain in use.



### 3.2 Socioeconomic Data

A traffic analysis zone (TAZ) is a geographical area delineated by state and/or local transportation officials for tabulating traffic-related data, especially journey-to-work statistics. A TAZ usually consists of one or more census blocks, block groups, or census tracts. According to FIVCO’s Socioeconomic Report, the Boyd County portion of the study area contains 13 census tracts and 34 block groups (**Figure 2**): Greenup County 6 and 18, respectively.

Modest job growth is predicted in the study area between the years 2020 and 2040 as shown in **Figure 3** and **Figure 4** however, household numbers remain steady. Predicted traffic volume increases of 3000 jobs resulting from Braidy Industries are outside study boundaries in TAZ 2108 and included in the model. TAZ boundaries matched between the KYOVA and KY Statewide Models. No adjustments were made to TAZ boundaries. The shapes of the urbanized areas and tri-state jurisdiction present unique challenges in synthesizing procedures, planning products, and timelines.

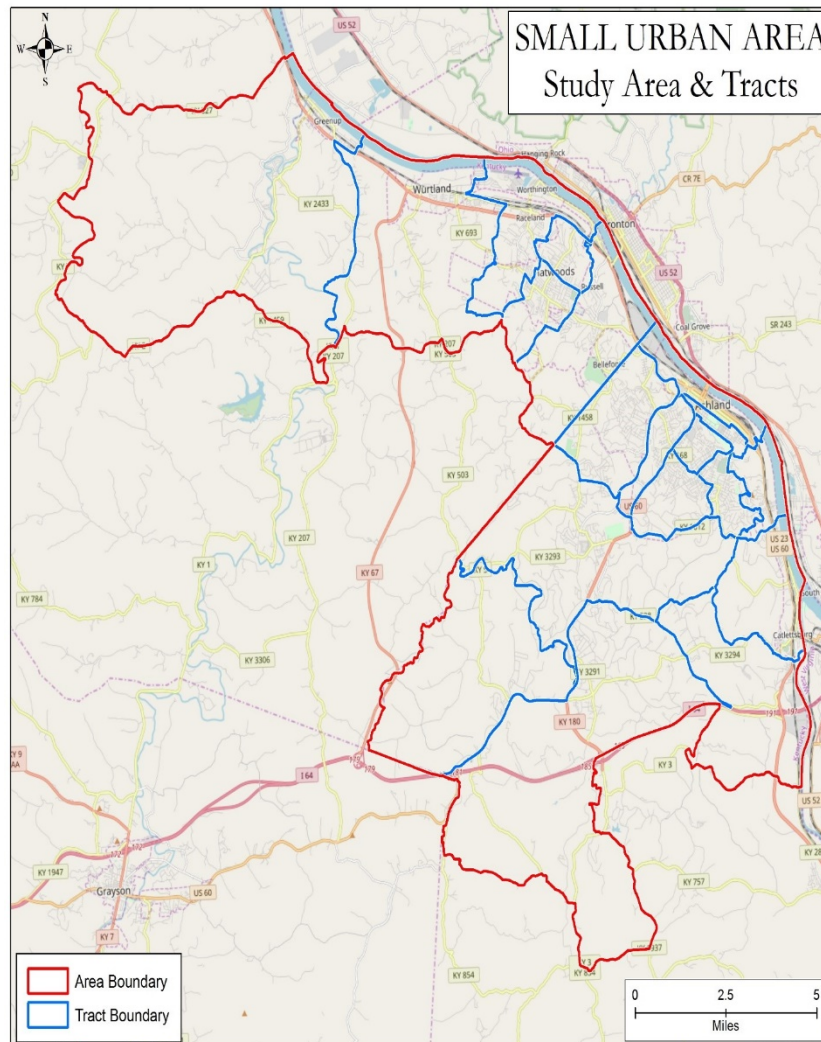


Figure 2: Study Area Census Tracts



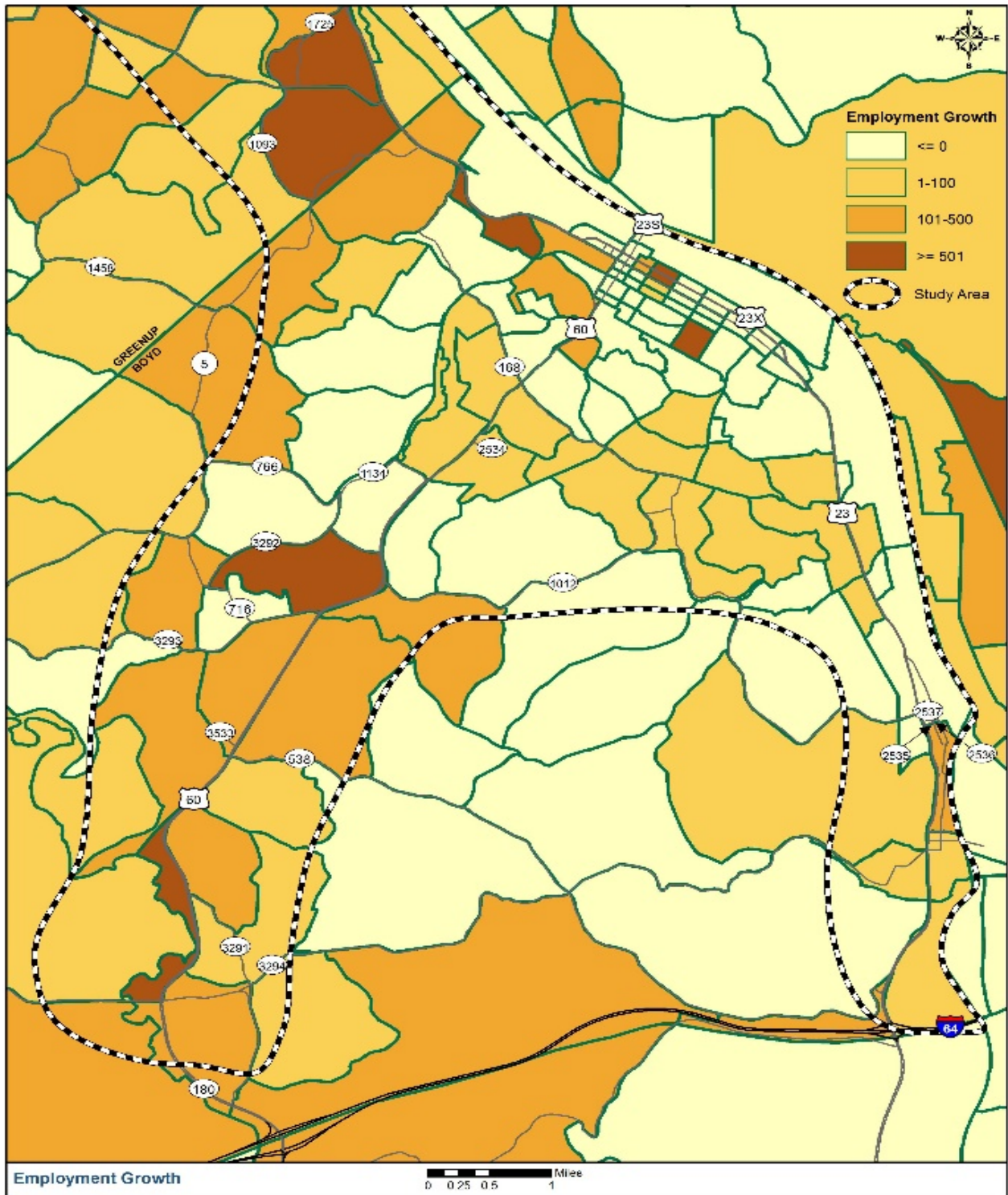


Figure 3: Boyd County Employment Growth

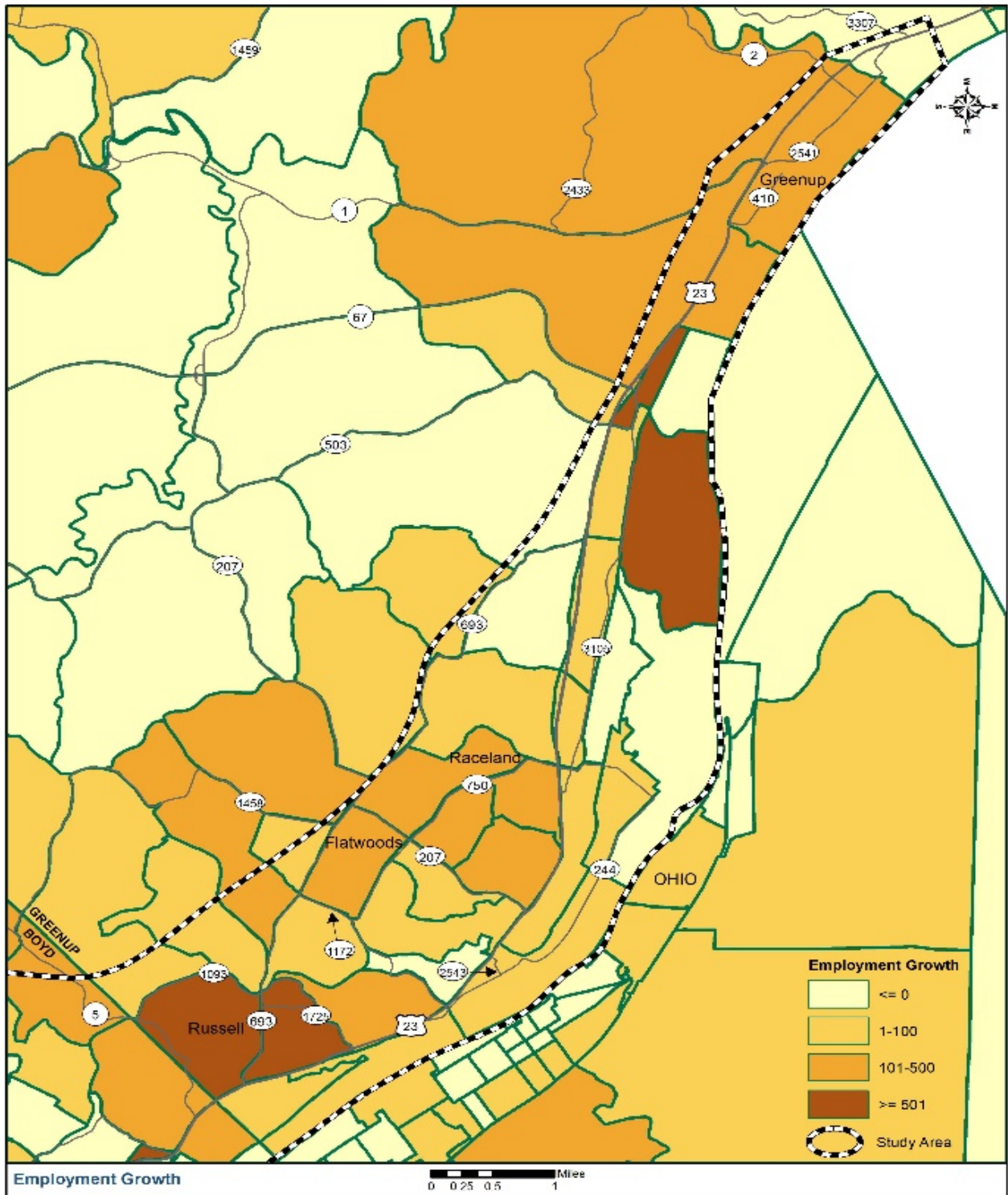


Figure 4: Greenup County Employment Growth

### 3.3 2050 Traffic Projections

Existing volumes were held steady for 2050 forecasts on segments having lower future year assignment compared to existing year volumes. On roadway segments showing positive growth, future year model assignments were adjusted using differences and ratios between existing volumes and model assignments. Adjusted future year model assignments were then averaged to determine future year average daily traffic (ADT) and design hourly vehicle (DHV) volumes for each segment. Study area 2020 and 2050 ADT and two operational metrics—Level of Service (LOS) and volume-to-capacity (v/c)—are listed in **Table 5** and **Table 6**.

Table 5: Boyd County 2020 and 2050 Traffic Operations

Route	County	BMP	EMP	2020 AADT	2020 LOS	2020 v/c	2050 AADT	2050 LOS	2050 v/c
US 23	Boyd	9.161	20.938	9470-30970	A-C	0.16-0.47	12200-34600	A-C	0.20-0.52
US 23S	Boyd	0.000	0.483	10750	A	0.22	11600	A	0.24
US 23S1	Boyd	0.000	0.483	14270	C	0.45	15400	C	0.48
US 23X	Boyd	0.000	1.796	7810-16030	A-B	0.12-0.28	9000-18100	A-B	0.14-0.32
US 60	Boyd	3.150	12.880	2890-19550	A-D	0.06-0.33	1700-29500	A-E	0.06-0.47
KY 5	Boyd	6.647	10.781	2380-6920	B-E	0.08-0.63	3800-9900	B-E	0.13-0.90
KY 168	Boyd	0.000	8.179	4460-6640	A-D	0.18-0.24	1800-7400	A-D	0.09-0.24
KY 180	Boyd	0.200	2.514	10360	A	0.14	14800	A	0.20
KY 538	Boyd	0.000	6.631	1560-1890	B-D	0.07-0.09	2100-2400	C-D	0.10
KY 716	Boyd	0.000	1.565	4680-5510	C-D	0.18-0.19	10300-27200	D-F	0.36-1.11
KY 766	Boyd	0.000	2.044	1910-2580	B-C	0.08-0.09	2400-2700	B-C	0.10
KY 1012	Boyd	0.000	3.036	1670-2340	C	0.07-0.09	3100-3700	C	0.11-0.15
KY 1134	Boyd	0.000	0.897	2570	C	0.10	4200	C	0.17
KY 2534	Boyd	0.000	0.178	3290	B	0.10	3300	B	0.17
KY 2535	Boyd	0.000	0.065	930	A	0.03	1500	A	0.05
KY 2536	Boyd	0.000	0.043	160	A	0.01	200	A	0.01
KY 2537	Boyd	0.000	0.404	110-680	A	0.01-0.04	100-1000	A	0.01-0.05
KY 3291	Boyd	0.000	2.135	2110	C	0.11	5400	D	0.3
KY 3292	Boyd	0.000	1.223	2790	C	0.11	5700	C	0.23
KY 3293	Boyd	0.986	2.407	720-1830	A-B	0.03-0.09	1400-8000	B-D	0.06-0.38
KY 3294	Boyd	0.000	9.445	1310-2430	A-B	0.05-0.11	1300-4200	A-C	0.06-0.16
KY 3533	Boyd	0.000	0.166	90	C	0.01	100	C	0.01
CR 1047D	Boyd	0.000	0.797	No Volumes			No Volumes		
CS 2349	Boyd	0.000	0.651	5380-7120	C	0.20	7600-8300	C	0.28-0.30
CS 2350	Boyd	0.000	1.571	2720-9490	A-D	0.08-0.37	4400-12200	A-E	0.13-0.48
CS 2492	Boyd	0.000	1.281	5950-9170	C	0.23-0.30	6000-14900	C-E	0.20-0.53
CS 2530	Boyd	0.255	1.808	No Volumes			No Volumes		
CS 2615	Boyd	0.000	0.368	12300	D	0.43	15400	E	0.55



Table 6: Greenup County 2020 and 2050 Traffic Operations

Route	County	BMP	EMP	2020 AADT	2020 LOS	2020 v/c	2050 AADT	2050 LOS	2050 v/c
US 23	Greenup	0.000	12.100	13690-30970	A-C	0.16-0.47	13300-34800	A-C	0.21-0.52
KY 1	Greenup	16.573	17.134	2270	C	0.1	2900	C	0.13
KY 2	Greenup	17.112	17.463	940-2070	A-B	0.04-0.08	900-2100	A-B	0.04-0.08
KY 5	Greenup	0.000	0.792	3710	C	0.14	4100	C	0.15
KY 67	Greenup	12.900	13.039	4780	C	0.16	6600	C	0.22
KY 207	Greenup	15.590	17.645	5630-10660	C-D	0.19-0.44	5800-12400	C-E	0.21-0.51
KY 244	Greenup	0.000	3.654	1810-3370	B-C	0.08-0.15	1800-4900	C-D	0.08-0.22
KY 410	Greenup	0.000	0.681	430	A	0.02	400	A	0.02
KY 503	Greenup	9.052	9.287	1080	B	0.04	1700	B	0.06
KY 693	Greenup	0.000	5.812	940-15560	B-E	0.04-0.51	1600-20900	B-E	0.06-0.63
KY 750	Greenup	0.000	3.713	1290-4470	B-D	0.05-0.25	1800-7000	B-D	0.07-0.32
KY 1093	Greenup	0.000	1.954	4880-5730	C	0.19-0.20	7400-9000	D	0.30-0.36
KY 1172	Greenup	0.000	0.482	3760	C	0.21	5500	C	0.31
KY 1725	Greenup	0.000	0.905	3290-4230	C	0.12-0.18	3300-6400	C-D	0.12-0.27
KY 2541	Greenup	0.000	1.619	740-2350	A-B	0.03-0.09	700-2400	A-B	0.03-0.09
KY 2543	Greenup	0.000	0.183	3620	C	0.13	3900	C	0.15
KY 3105	Greenup	0.000	3.568	740-1230	A-B	0.04-0.05	1400-2800	B-C	0.08-0.10
CR 1948	Greenup	0.000	1.543	1440	A	0.06	500-1400	A	0.06
CS 5009	Greenup	0.000	1.318	1510	B	0.05	3900	C	0.13
CS 7006	Greenup	0.000	0.107	1440	B	0.06	1400	B	0.06

ADT and DHV volumes were calculated for two intersections. Without turning movement counts to provide existing traffic flows, forecasts were limited to approach ADT and DHV volumes, shown in **Figure 5** and **Figure 6**.



Figure 5: ADT/DHV at US 60/KY 168 Intersection

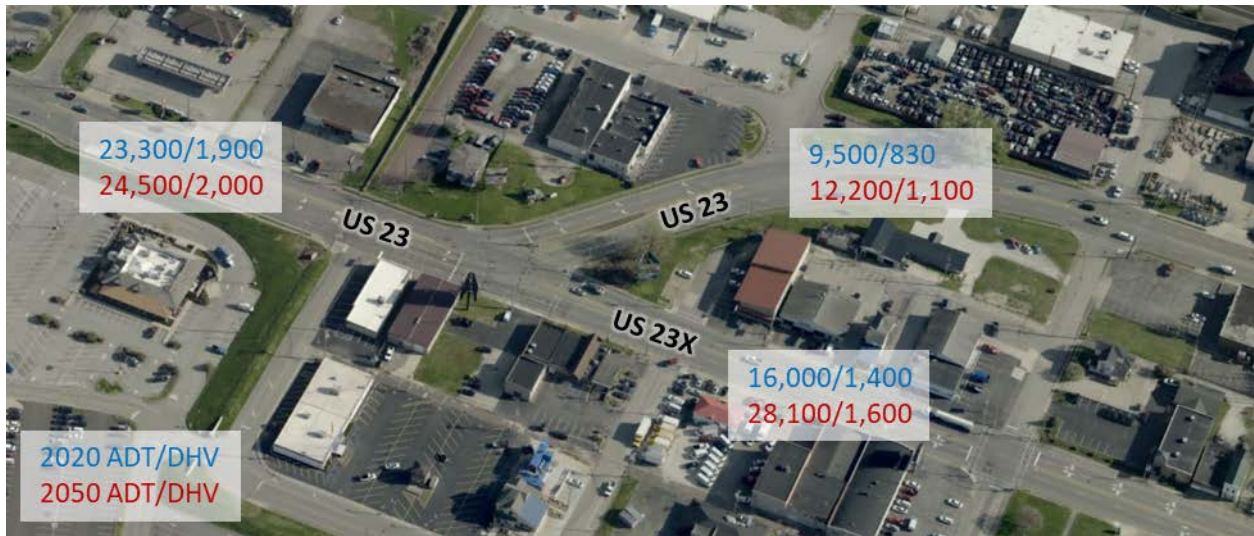


Figure 6: ADT/DHV at northern US 23/US 23X Intersection

#### 4.0 BUILD TRAFFIC

Initial improvement concepts are summarized in **Table 7** on the following page and shown on **Figure 7** (page 12). Most recommended improvement concepts were smaller in scale or focused on improving safety leading to minor impacts on routine traffic operations. A planning effort to examine the potential effects of a US 23X Winchester Avenue Road diet is expected to begin later in 2020. The KYOVA travel demand model was run, assuming the existing four-lane section from 13<sup>th</sup> to 18<sup>th</sup> Streets drops to two lanes. Changes in ADT and DHV versus the 2050 No-Build scenario are shown in **Figure 8** (page 13).

Table 7: Initial Improvement Concepts

LONG-TERM	
MAP ID	Description
A	Construct a left turn lane on southbound US 60
B	Intersection improvements at US 60/KY 168 Blackburn Avenue
C	Construct TWLTL on US 60
D	Intersection realignment at US 23 Greenup Avenue/US 23X Winchester Avenue
E	Construct dedicated eastbound right turn lane on KY 5
F	Construct multi-use path on south side of US 23
G	Construct mini-roundabout at intersection of KY 716/KY 3293/ Summitt Drive
H	Signal improvements/add turn lane on Thompson Road/continuous green right turn lane on KY 693
I	Install traffic signal on US 23 at Caroline Road
SHORT-TERM	
MAP ID	Description
J	Intersection improvements at US 60/KY 538 Shopes Creek Road
K	Intersection improvements at US 60/Summit Road (Boyd County Middle School)
L	Intersection improvements at US 60/Oakview Road (Tennis Center)
M	Intersection improvements at Lexington Avenue/US 60 (12 <sup>th</sup> and 13 <sup>th</sup> Streets)
N	Intersection improvements at KY 5 Bellefonte-Princess Road/KY 1093 Country Club Drive
O1	Intersection improvements at KY 693 Diederick Blvd/KY 207 Greenbo Blvd
O2	Intersection improvements at KY 693 Diederick Blvd/KY 207 Argillite Road
P	Intersection Improvements at KY 693 Bellefonte Road/KY 1725 St. Christopher Drive
Q	Intersection improvements at KY 693 Diederick Blvd./US 23
R	Intersection improvements at KY 168 Hoods Creek Pike/US 23
S	Pedestrian crosswalk improvements at US 23/15 <sup>th</sup> and 16 <sup>th</sup> Streets
LOCAL	
MAP ID	Description
T	Signal and intersection improvements on KY 693 at Hobby Lobby/Kroger entrances
U	Reconstruct Caroline Road for school traffic
V	Add striping on Espy Lane to separate traffic lanes
W	Intersection improvements along Central Avenue
X	Improve access to Ashland Regional Airport



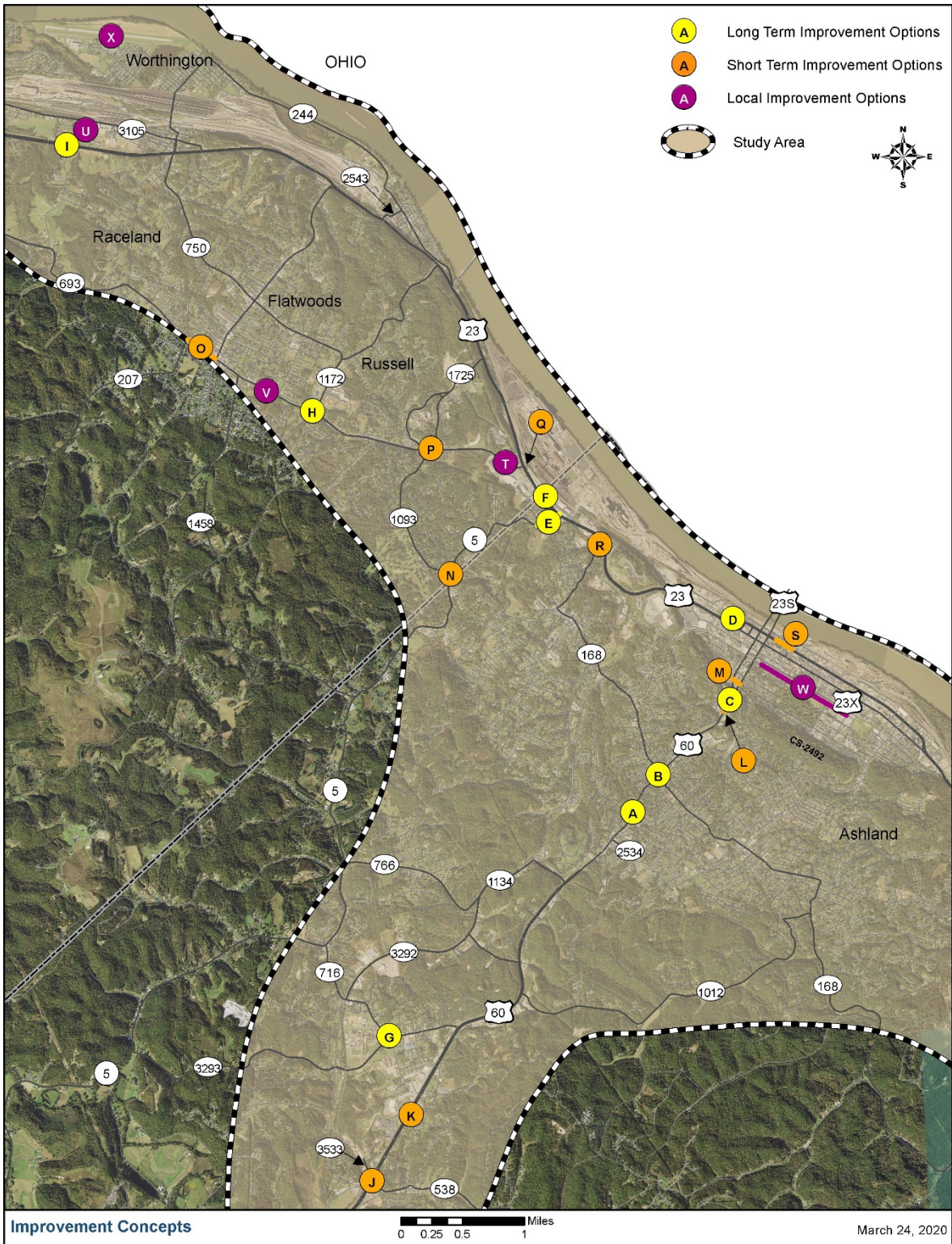


Figure 7: Improvement Concept Locations





Figure 8: 2050 ADT/DHV at northern US 23/US 23X Intersection

Appendix A: Segment Level Traffic Forecasts

County	Routes for Model and Capacity Analysis	Station ID	Count Year	Count Year AADT	Historical Growth Rate %	Years to 2020	2020 AADT	2050 AADT
Boyd	US 23	010I01	2018	12717	0.00	2	12720	22600
		010I01	2018	12717	0.00	2	12720	15000
		010D23	2018	18063	0.00	2	18070	20600
		010D15	2018	14430	0.00	2	14430	18500
		010A54	2016	14698	0.00	4	14700	17100
		010A54	2016	14698	0.00	4	14700	17900
		010A54	2016	14698	0.00	4	14700	18300
		010A52	2017	17942	0.00	3	17950	20800
		010B09	2018	13079	0.00	2	13080	16200
		010A96	2017	9469	0.00	3	9470	12200
		010B71	2018	23301	0.00	2	23310	24500
		010A05	2018	21091	0.00	2	21100	26700
		010B82	2014	21997	0.00	6	22000	25300
045E34	2016	30965	0.00	4	30970	34600		
Boyd	US 23S	010044	2016	10746	0.00	4	10750	11600
Boyd	US 23S -1	010045	2018	14267	0.00	2	14270	15400
Boyd	US 23X	010B16	2017	7808	0.00	3	7810	9000
		010B10	2016	9686	0.00	4	9690	16300
		010A25	2018	16022	0.00	2	16030	18100
Boyd	US 60	010756	2017	11844	0.00	3	11850	15200
		101C41	2018	22579	0.00	2	22580	29500
		010C39	2018	21642	0.00	2	21650	28400
		010C36	2016	17893	0.00	4	17900	23400
		010A82	2014	13142	0.00	6	13150	16700
		010A82	2014	13142	0.00	6	13150	15500
		010A21	2018	19545	0.00	2	19550	21700
		010B34	2016	9415	0.00	4	9420	14600
		010B34	2016	9415	0.00	4	9420	10000
		010A26	2017	15983	0.00	3	15990	16800
		010A25	2018	16022	0.00	2	16030	16700
		010B39	2014	2886	0.00	6	2890	3100
10005	2018	12717	0.00	2	12720	19400		
Boyd	US 60 -1	010B34	2016	9415	0.00	4	9420	10000
		010B34	2016	9415	0.00	4	9420	11500
Boyd	US 60 -2	010B38	2018	1488	0.04	2	1620	1700
Boyd	KY 5	010C25	2017	2377	0.00	3	2380	3800
		010C08	2017	6059	0.00	3	6060	7500
		010B29	2016	6915	0.00	4	6920	9900
		010B81	2018	4471	0.00	2	4480	4900
Boyd	KY 168	010B55	2016	1669	0.00	4	1670	1800
		010A64	2015	4459	0.00	5	4460	4900
		010A64	2015	4459	0.00	5	4460	4900
		010A20	2018	6638	0.00	2	6640	7300
		010A13	2017	4623	0.00	3	4630	5400
		010A79	2016	5737	0.00	4	5740	7400
		010A79	2016	5737	0.00	4	5740	6500
Boyd	KY 180	010C49	2017	10359	0.00	3	10360	14800
Boyd	KY538	010C37	2016	1882	0.00	4	1890	2200
		010C37	2016	1882	0.00	4	1890	2100
		010D43	2017	1557	0.00	3	1560	2400
		010D43	2017	1557	0.00	3	1560	2400

County	Routes for Model and Capacity Analysis	Station ID	Count Year	Count Year AADT	Historical Growth Rate %	Years to 2020	2020 AADT	2050 AADT
Boyd	KY 716	010C20	2018	4675	0.00	2	4680	27200
		010C27	2017	5506	0.00	3	5510	10300
Boyd	KY 766	010C15	2018	1904	0.00	2	1910	2500
		010C15	2018	1904	0.00	2	1910	2400
		010C17	2016	2571	0.00	4	2580	2700
Boyd	KY 1012	010B56	2018	1667	0.00	2	1670	3700
		010B59	2017	2239	0.01	3	2340	3100
Boyd	KY 1134	010A87	2017	2565	0.00	3	2570	4200
Boyd	KY 2534	010C52	2016	3044	0.02	4	3290	3300
Boyd	KY 2535	010D45	2014	925	0.00	6	930	1500
Boyd	KY 2536	010D46	2018	151	0.00	2	160	200
Boyd	KY 2537	010D22	2014	673	0.00	6	680	1000
		010D11	2016	103	0.00	4	110	100
Boyd	KY 3291	010C46	2016	2110	0.00	4	2110	5400
Boyd	KY 3292	010C22	2018	2784	0.00	2	2790	5700
Boyd	KY 3293	010C51	2017	717	0.00	3	720	1400
		010C30	2018	1823	0.00	2	1830	8000
Boyd	KY 3294	010C48	2016	2220	0.00	4	2220	3300
		010027	2018	1336	0.00	2	1340	2600
		010D40	2017	1302	0.00	3	1310	1600
		010D40	2017	1302	0.00	3	1310	1300
		010D21	2014	2301	0.00	6	2310	4200
		010D21	2014	2301	0.00	6	2310	3100
		010D21	2014	2301	0.00	6	2310	3700
		010D19	2016	2241	0.02	4	2430	3500
		010D05	2018	2240		2	2240	3300
		010D05	2018	2240		2	2240	3300
Boyd	KY 3533	010C55	2017	84	0.00	3	90	100
Boyd	CR-1047D	010D47				2020	0	0
		010D51				2020	0	300
Boyd	CS-2349	010A15	2016	7117	0.00	4	7120	8300
		010A68	2014	5375	0.00	6	5380	7600
Boyd	CS-2350	010B69	2018	9485	0.00	2	9490	12200
		010A97	2016	4835	0.00	4	4840	6000
		010B04	2017	2715	0.00	3	2720	4400
		010B13	2018	3596	0.00	2	3600	4900
Boyd	CS-2492	010A98	2014	8576	0.00	6	8580	14900
		010A60	2018	9170	0.00	2	9170	10700
		010A49	2016	5949	0.00	4	5950	6000
Boyd	CS-2530	010A71				2020	0	0
		010A71				2020	0	0
		010B12				2020	0	300
		010B12				2020	0	400
		010B12				2020	0	200
		010A95				2020	0	200
Boyd	CS-2615	010C56	2018	11381	0.04	2	12300	15400

County	Routes for Model and Capacity Analysis	Station ID	Count Year	Count Year AADT	Historical Growth Rate %	Years to 2020	2020 AADT	2050 AADT
Greenup	US 23	045E34	2016	30965	0.00	4	30970	34800
		045E47	2016	17621	0.00	4	17630	20700
		045E38	2014	20675	0.00	6	20680	24800
		045E02	2014	18203	0.00	6	18210	21800
		045E02	2014	18203	0.00	6	18210	19400
		045E01	2016	13809	0.00	4	13810	15100
		045E72	2018	12610	0.00	2	12610	13300
		045E44	2016	12630	0.00	4	12630	17200
		045E77	2014	14247	0.00	6	14250	16900
		045004	2018	15517	0.00	2	15520	19400
		045A43	2017	14521	0.00	3	14530	20700
		045001	2018	13452	0.01	2	13690	18400
Greenup	KY 1	045003	2018	2270	0.00	2	2270	2900
		045003	2018	2270	0.00	2	2270	2900
Greenup	KY 2	045A48	2018	2063	0.00	2	2070	2100
		045A16	2016	933	0.00	4	940	900
Greenup	KY 5	045E30	2018	3709	0.00	2	3710	4100
Greenup	KY 67	045061	2016	4373	0.02	4	4780	6600
Greenup	KY 207	045E08	2016	9543	0.00	4	9550	11700
		045E13	2018	10654	0.00	2	10660	12400
		045E15	2018	5625	0.00	2	5630	7600
		045E03	2015	5373	0.00	5	5380	5800
Greenup	KY 244	045E23	2018	3095	0.00	2	3100	3100
		045E46	2016	1804	0.00	4	1810	4100
		045E46	2016	1804	0.00	4	1810	1800
		045E46	2016	1804	0.00	4	1810	3200
		045E19	2018	3369	0.00	2	3370	4400
		045E19	2018	3369	0.00	2	3370	4900
Greenup	KY 410	045A15	2018	422	0.00	2	430	400
Greenup	KY 503	045E51	2016	1080	0.00	4	1080	1700
Greenup	KY 693	045E53	2016	940	0.00	4	940	1600
		045E85	2014	1507	0.00	6	1510	2300
		045E71	2018	3875	0.00	2	3880	6700
		045E65	2016	12972	0.00	4	12980	17300
		045E48	2014	13023	0.00	6	13030	17200
		045E52	2015	15557	0.00	5	15560	17400
		045E52	2015	15557	0.00	5	15560	20900
Greenup	KY 750	045E73	2014	3124	0.00	6	3130	3800
		045E04	2018	4465	0.00	2	4470	5600
		045E04	2018	4465	0.00	2	4470	7000
		045E04	2018	4465	0.00	2	4470	5700
		045E14	2018	4721	0.00	2	4730	6100
		045E14	2018	4721	0.00	2	4730	5600
		045E40	2016	3310	0.00	4	3310	4300
		045E39	2015	1281	0.00	5	1290	1800
Greenup	KY 1093	045E29	2014	5729	0.00	6	5730	9300
		045E49	2018	4872	0.00	2	4880	7400
Greenup	KY 1172	045E61	2017	3756	0.00	3	3760	5500
Greenup	KY 1725	045E63	2017	3215	0.01	3	3290	3300
		045E37	2016	4227	0.00	4	4230	6400

County	Routes for Model and Capacity Analysis	Station ID	Count Year	Count Year AADT	Historical Growth Rate %	Years to 2020	2020 AADT	2050 AADT
Greenup	KY 2541	045A38	2017	2350	0.00	3	2350	2400
		045A38	2017	2350	0.00	3	2350	2400
		045A09	2018	1496	0.00	2	1500	1500
		045A01	2018	677	0.04	2	740	700
		045A01	2018	677	0.04	2	740	700
Greenup	KY 2543	045E70	2018	3616	0.00	2	3620	3900
Greenup	KY 3105	045E59	2015	1221	0.00	5	1230	2800
		045E59	2015	1221	0.00	5	1230	2700
		045E74	2018	738	0.00	2	740	1400
		045E74	2018	738	0.00	2	740	1700
		045E74	2018	738	0.00	2	740	1400
Greenup	CR-1948	045F03	2018	1440	0.00	2	1440	1400
		045F07				2020	0	0
		045F07				2020	0	600
		045F07				2020	0	500
Greenup	CS-5009	045E79	2018	1506	0.00	2	1510	3900
Greenup	CS-7006	045F03	2018	1440	0.00	2	1440	1400