

APPENDIX F

Environmental Overview

Environmental Overview Alternatives Study for I-71 / I-265

Jefferson County, Kentucky
KYTC Item Number: 5-68.00

July 2010



Prepared for :



**Kentucky Transportation Cabinet
District 5**

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TABLE OF CONTENTS

	PAGE
EXECUTIVE SUMMARY.....	i
1.0 PROJECT DESCRIPTION	1
2.0 PURPOSE AND NEED FOR PROJECT STUDY.....	2
3.0 PROJECT STUDY ALTERNATIVES	3
4.0 ENVIRONMENTAL CONSIDERATIONS	4
4.1 TOPOGRAPHY	4
4.2 SOILS AND GEOLOGY	4
4.3 HYDROGEOLOGY.....	5
4.4 SURFACE WATER RESOURCES	5
4.5 WETLANDS.....	6
4.6 FLOODPLAINS	6
4.7 PERMITS	6
4.8 AIR QUALITY.....	7
4.9 NOISE.....	7
4.10 THREATENED AND ENDANGERED SPECIES	8
4.11 KENTUCKY ENVIRONMENTAL PUBLIC PROTECTION CABINET (EPPC) ACTIVITIES.....	10
4.12 CULTURAL RESOURCES.....	17
4.13 SECTION 4(F)/SECTION 6(F) RESOURCES.....	19
4.14 LAND USE.....	19
4.15 FARMLAND	20
4.16 NATURAL AREAS	20
4.17 ENVIRONMENTAL JUSTICE	21

FIGURES

Number

- 1 PROJECT STUDY AREA
- 2 EXISTING CONDITIONS AERIAL MAP
- 3 ENVIRONMENTAL FOOTPRINT – USGS TOPOGRAPHIC MAP
- 4 EXISTING LAND USE

APPENDICES

Appendix

- A KDFWR – KSNPC SPECIES LIST
- B KENTUCKY EPPC ACTIVITY SITE LIST
- C USEPA ENVIRONMENTAL JUSTICE ASSESSMENT DATA



EXECUTIVE SUMMARY

URS Corporation (URS) was retained by the Kentucky Transportation Cabinet (KYTC) District 5 to perform an alternatives study for the I-71/I-265 interchange in Jefferson County, Kentucky. Included in the study is the I-265 and KY-22 interchange which is less than 0.1 miles from the I-71/I-265 interchange. The purpose of the study is as follows:

- Evaluate the safety and capacity of the interchange(s).
- Determine the future adequacy of the interchange(s).
- The scenarios included in the alternatives study included the consideration of interim build and ultimate build solutions.

The **Environmental Overview** completed for the project identified the following issues for consideration in design and environmental analysis for future projects.

- Improvements to I-71 NB and I-71 near Little Goose Creek will most likely require culvert extensions. The impacts associated with the culvert extension will require coordination and permitting with the US Army Corps of Engineers and Kentucky Division of Water. In addition, the area will require a habitat assessment for Indiana Bat, as this stream has a documented mist netting capture for this species.
- Any project which adds capacity to the Interstate will require a noise analysis to determine existing and future predicted noise levels. This will be important as land use adjacent to I-71 from I-264 to I-265 is primarily residential. During previous KYTC studies noise concerns were raised by the public.
- Undeveloped land use adjoining the interchange at I-71 and I-265 is minimal and is primarily on the northeast quadrant. The majority of land is residential or commercial. Therefore, any improvements which would require significant right of way acquisition would most likely be cost prohibitive and controversial.



1.0 PROJECT DESCRIPTION

URS Corporation (URS) was retained by the Kentucky Transportation Cabinet (KYTC) District 5 to perform an alternatives study for the I-71/I-265 interchange in Jefferson County, Kentucky. Included in the study is the I-265 and KY-22 interchange which is less than 0.1 miles from the I-71/I-265 interchange. The purpose of the study is as follows:

- Evaluate the safety and capacity of the interchange(s).
- Determine the future adequacy of the interchange(s).
- The scenarios included in the alternatives study included the consideration of interim build and ultimate build solutions.

This environmental overview identifies study area issues likely to require consideration during future studies and design. It summarizes the results of several environmental investigations, based primarily upon literature, archival, known database, and map research. Limited amounts of fieldwork were conducted, consisting mainly of windshield surveys to confirm identified sites, and visually identify previously unknown sites. This environmental overview does not provide a detailed analysis and assessment of any potential impacts. The study area is about 4 miles long (*i.e.*, east-west), and about 4 miles wide (north-south). **The study area depicted on Figure 2 shows a 1000 foot buffer area along existing I-71 and I-265.**

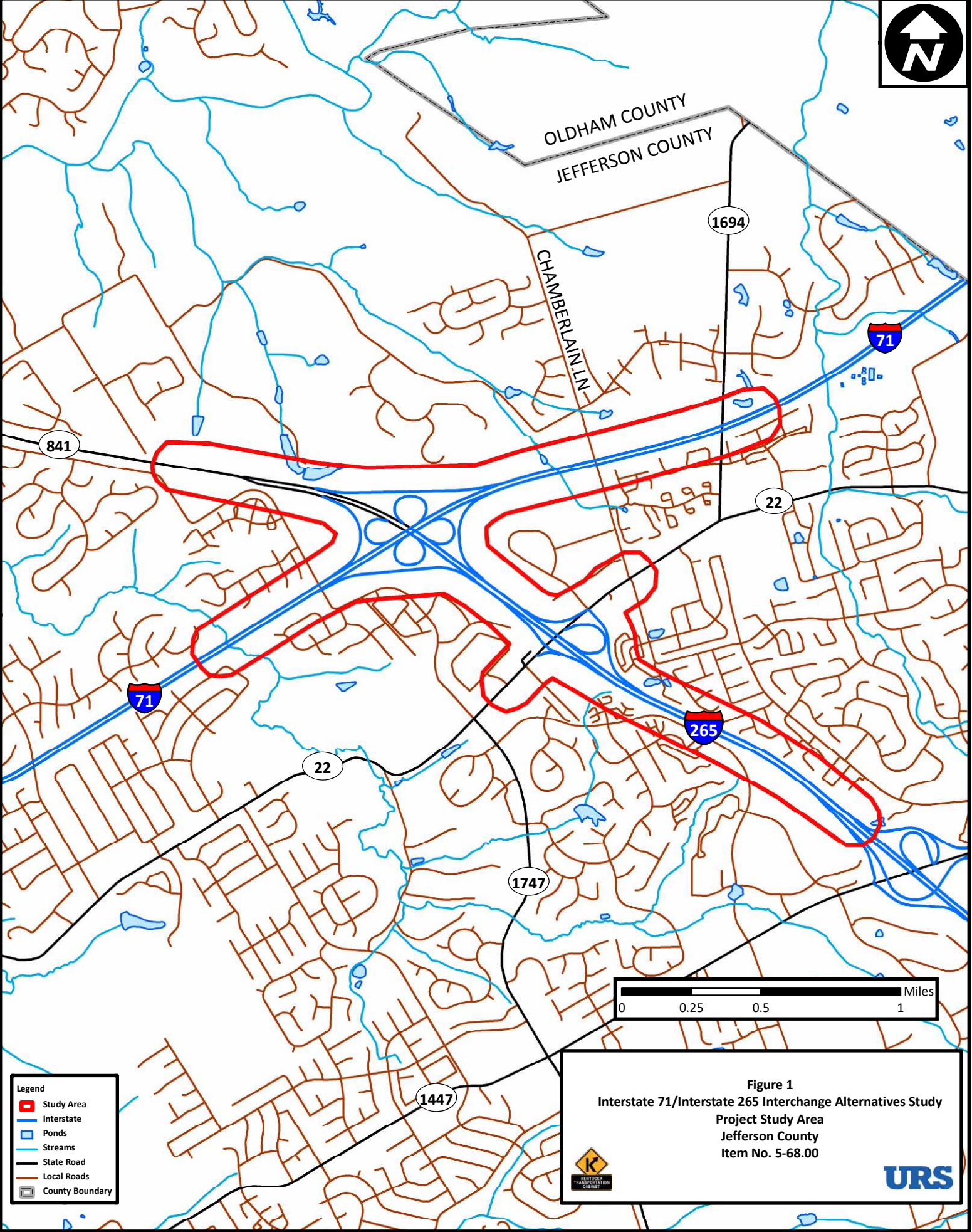


Figure 1
Interstate 71/Interstate 265 Interchange Alternatives Study
Project Study Area
Jefferson County
Item No. 5-68.00





2.0 PURPOSE AND NEED FOR PROJECT STUDY

The purpose of the project study is as follows:

Improve the safety and operation of the I-71/I-265 interchange and the I-265/KY 22 interchange. In addition, consideration should be given regarding the future capacity of the interchange.

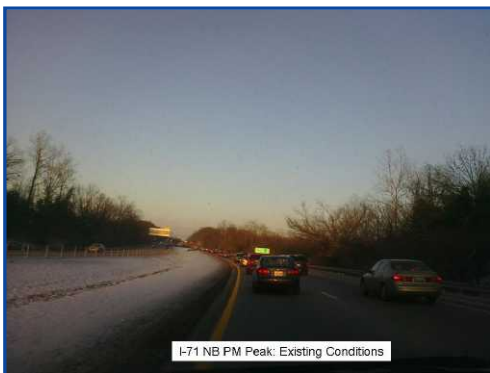
AM Peak Needs:

The project is needed due to the limited merge weave distance (700 feet) from I-265 NB to I-71 SB which creates a system delay on I-265 NB and I-71 SB during AM peak conditions. This ramp has a current level of service of F. Additionally, there have been 58 reported accidents in this area (Jan. 2006 – Jan. 2010).



This does not include the numerous unreported collisions with the cable barrier system located on the inside of I-71 SB.

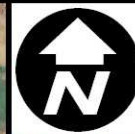
PM Peak Needs:



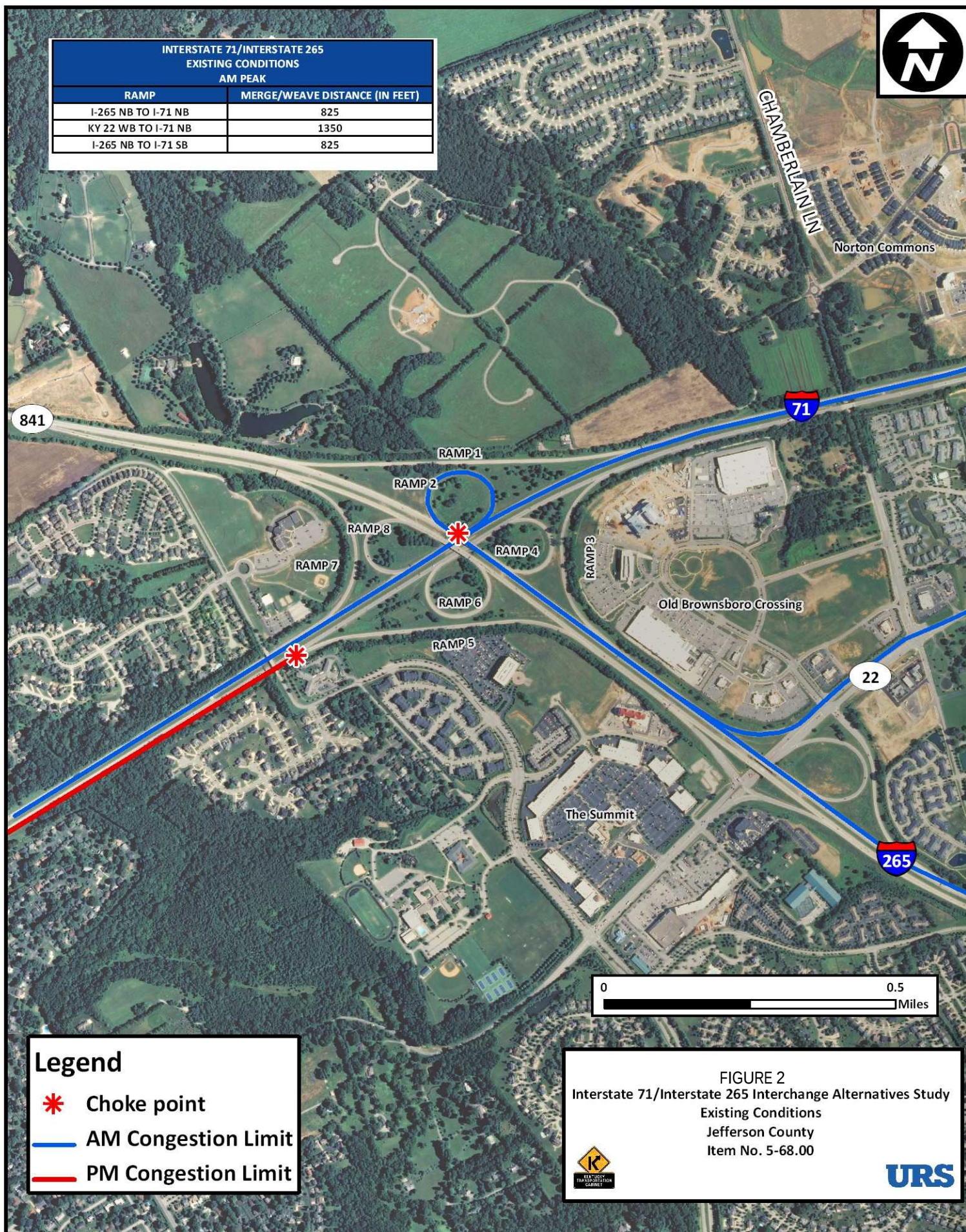
I-71 NB, during PM peak conditions experiences congestion and delay, which can cause traffic backups. These backups affect the operating speed of I-71 and attribute to rear end collisions. Within the study area there have been 43 reported accidents between Milepoint (MP) 8.2 and the I-265 SB ramp (Jan. 2006 – Jan. 2010) of which 65% are

rear-end or sideswipe collisions.

An aerial view of the project study area and limits of AM/PM congestion is included in Figure 1.



INTERSTATE 71/INTERSTATE 265 EXISTING CONDITIONS AM PEAK	
RAMP	MERGE/WEAVE DISTANCE (IN FEET)
I-265 NB TO I-71 NB	825
KY 22 WB TO I-71 NB	1350
I-265 NB TO I-71 SB	825





Due to the limited availability of KYTC Road Funds and/or Federal funding, improvements to the I-71/I-265 interchange are most likely to be incremental. An Interchange Modification Study (IMS) is not required at this time. Projects recommended for future implementation will be assessed individually in accordance with NEPA requirements.

3.0 PROJECT STUDY ALTERNATIVES

URS developed multiple alternatives to meet the project study purpose and need (see **Alternatives Study Report**). The alternatives included interim (quick-fix) improvements and ultimate build solutions. The Environmental Overview will address alternatives recommended for further consideration by KYTC. The alternatives are as follows:

Alternative 5A

Improvements include:

- Construct a two-lane flyover from I-265 NB to I-71 SB
- Add an auxiliary lane to the outside of I-71 NB
- Add an auxiliary lane to the inside of I-71 SB to I-264
- Widen I-71 Ramp 5 to 2 Lanes to KY 22
- Reconstruct Ramp 3 and add auxiliary lane to Chamberlain
- Align new I-265 NB ramps with I-265 SB ramp @ KY 22
- Reconstruct Springdale Road Bridge

Estimated Cost- \$70 Million

Alternative 8A

Improvements include:

- I-71 is widened at the flyover merge point to 5 lanes and tapers back down to 2 lanes
- Widen I-265 to 6 lanes
- Flyover from I-265 SB to I-71 NB and I-265 NB to I-71 SB
- Collector Distributor (CD) system and barrier wall on I-265 NB and SB from KY 22 to KY 841

Estimated Cost- \$86.5 Million

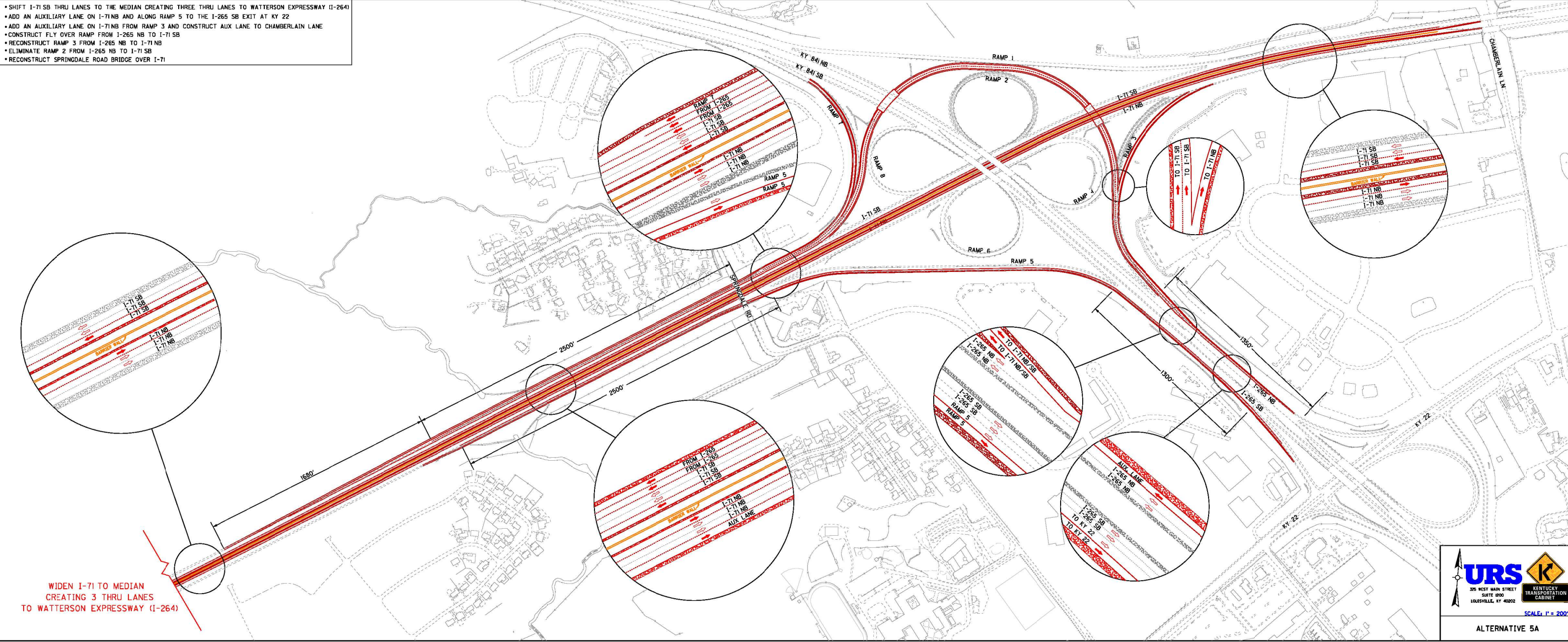
Alternative 10A

Improvements:

- CD system on I-71 SB and I-71 NB to address AM and PM weave
- Reconstruct Springdale Road Bridge over I-71
- Add an auxiliary lane to the outside of I-71 NB
- Widen I-71 Ramp 5 to 2 Lanes to KY 22
- I-71 add an additional lane in each direction

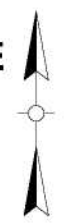
Estimated Cost - \$65 Million

- SHIFT I-71 SB THRU LANES TO THE MEDIAN CREATING THREE THRU LANES TO WATTERSON EXPRESSWAY (I-264)
- ADD AN AUXILIARY LANE ON I-71NB AND ALONG RAMP 5 TO THE I-265 SB EXIT AT KY 22
- ADD AN AUXILIARY LANE ON I-71NB FROM RAMP 3 AND CONSTRUCT AUX LANE TO CHAMBERLAIN LANE
- CONSTRUCT FLY OVER RAMP FROM I-265 NB TO I-71 SB
- RECONSTRUCT RAMP 3 FROM I-265 NB TO I-71 NB
- ELIMINATE RAMP 2 FROM I-265 NB TO I-71 SB
- RECONSTRUCT SPRINGDALE ROAD BRIDGE OVER I-71





**I-71 / I-265 INTERCHANGE
IMPROVEMENTS
ALTERNATE 8A**



SCALE: 1" = 200'

WIDEN I-71 NB AND SB TO MEDIAN
CREATING 3 THRU LANES
TO WATTERSON EXPRESSWAY (I-264)

- CONSTRUCT CD ROAD ON I-71 NB & SB
- RECONSTRUCT BRIDGE AT SPRINGDALE ROAD OVER I-71
- ADD AUXILIARY LANE FROM I-71 NB TO I-265 SB CONTINUING ON I-265 SB TO KY 22 EXIT
- SHIFT I-71 NB AND I-71 SB THRU LANES TO THE MEDIAN CREATING 3 THRU LANES



4.0 ENVIRONMENTAL CONSIDERATIONS

The study area is located in northeastern Jefferson County, Kentucky. Oldham County is located approximately 2 miles to the northeast. Jefferson County is located in north central Kentucky, which is within the Bluegrass Region of the Interior Low Plateau physiographic region, a gently rolling plain of the eastern United States. A USGS topographic map of the study area and identified environmental considerations is included in Figure 2.

4.1 Topography

The United States Geological Survey 7.5-minute topographic map of the Anchorage, Kentucky quadrangles indicates that the study area is approximately 660 feet above mean sea level (USGS, 1987). Surface topography in the subject area is generally a reflection of the man made grading associated with the interstate construction. Local surface topography generally slopes gently to the Northwest towards an unnamed tributary to Wolf Pen Branch, mapped approximately 1,000 feet north of the I-71/I-265 interchange. In the absence of man-made influences (e.g. storm water drains and drainage ditches) surface water from the study area likely drains northwest following surface topography; however the study area is developed and storm water runoff is diverted to man-made systems. The average annual precipitation in the study area is approximately 40 to 44 inches. The average annual runoff in undeveloped areas is approximately 15 to 20 inches (Lloyd and Lyke, 1995).

4.2 Soils and Geology

The study area is located in the Highland Rim Section of the Interior Low Plateaus physiographic province (USGS, 2010). Surface soils mapped in the study area are identified as the Urban land-Udorthents complex (USDA, 2010). Areas where soils have been heavily altered so that physical properties cannot be observed or classified characterize Urban land. Urban land is generally comprised of locally derived fill materials and is characterized by variable infiltration and runoff rates. Middle Silurian age dolomitic limestone bedrock,



specifically the Louisville Limestone, likely underlies surface soils within the study area. The Louisville Limestone is conducive to the formation of karst (KGS, 2010). Several sinkholes are shown mapped within the study area. One sinkhole depicted is adjacent to the I-265/KY 22 interchange.

4.3 Hydrogeology

The Silurian-Devonian aquifer is mapped in the study area and likely serves as a regional source for groundwater (Lloyd and Lyke, 1995). Groundwater in the Silurian-Devonian aquifer is generally stored in fractures, open pore spaces, and along bedding planes in limestone bedrock. Several water wells are located within close proximity to the study area. Based on information provided by the Kentucky Geological Survey (KGS) and local topography, uppermost groundwater is likely encountered within 30 feet of the ground surface within the study area. Uppermost groundwater flow likely follows local topography, generally northwest. Areas within approximately 1,000 feet generally south and southeast of the subject site appear to be hydraulically upgradient.

4.4 Surface Water Resources



The study area lies within the Silver-Little Kentucky HUC (8) #05140101 watershed. Little Goose Creek is located on the western end of the project study and I-71 crosses over this perennial stream near Milepoint 8.3. Little Goose Creek flows under I-71 through an existing concrete box culvert; any proposed improvements to the outside of I-71 would require a widening of the existing culvert. Wolf Pen Branch and its tributaries are located on the northern and eastern sides of the existing interchange. I-71 crosses over Wolf Pen Branch, a perennial stream, near Milepoint 9.68, through an existing concrete box culvert. Any improvements to the outside of I-71 would require a culvert extension.



Along I-265 there are two intermittent streams within the study area. The streams are unnamed tributaries to Little Goose Creek and flow under I-265 through concrete box culverts. Any widening to the outside of I-265 would require culvert extensions.

4.5 Wetlands

According to the National Wetland Inventory (**NWI**) the only wetlands identified within the study area are ponds (see *Figure 3*). These ponds are man-made and primarily constructed along intermittent streams. The ponds were most likely developed for agricultural purposes, as the study area was primarily agricultural prior to the full completion of I-265 (Gene Snyder Freeway) in 1987.

Hydric soil data for Jefferson County was reviewed for the study area. No hydric soil is located within or adjacent to the study area.

4.6 Floodplains

Little Goose Creek is within the 100-year floodplain in the study area. The floodplain according to the Federal Emergency Management Agency (FEMA) designation is within Zone AE. This is an area where base flood elevations are provided. North of the study area, Little Goose Creek's FEMA floodplain designation changes to A. This is an area where base flood elevations are not calculated. Discussion regarding impacts to floodplains is included in Permits.

Hite Creek is located to the east of the study area and is within a designated AE FEMA flood zone. Wolf Pen Branch is to the north of the study area and is an A designated FEMA flood zone.

4.7 Permits

Any proposed improvements would most likely require extensions of existing box culverts under I-71 and I-265. These activities would require a permit from the US Army Corps of Engineers (USACE-Nationwide Permit #14) and General Water Quality Certification. These permits will apply if impacts are less than 300 linear feet or 500 feet within a 14-HUC watershed. Should impacts exceed this amount an Individual Permit or Letter of Permission



will be required from the USACE. In addition, an Individual Water Quality Certification would be required from the Kentucky Division of Water (KDOW). Because the study area has one identified FEMA flood zone (Little Goose Creek), a Floodplain construction permit will be required from KDOW. Detailed HEC-RAS analysis will be completed during the design phase of any proposed improvements. This data will be provided to KDOW to obtain a Floodplain Construction permit.

Any proposed improvements which disturb more than one acre will require a General Permit for Stormwater Discharges Associated with Construction Activities (**KYR10**). This notification must be submitted at a minimum seven (7) days prior to commencing construction activities.

4.8 Air Quality

Jefferson County is located within the Louisville Interstate Air Quality Control Region. The study area is designated in maintenance for 8-hour ozone and non-attainment for PM_{2.5}, as per the 1990 Clean Air Act Amendments. Transportation control measures are not likely to be required for the project as the project is not likely to be a project of concern. The project is not currently listed in the Kentuckiana Planning and Development Agency (KIPDA) FY 2007-FY 2011 Transportation Improvement Program. However, the project is listed in KIPDA's Long-Range Transportation Plan – Horizon 2030, adopted November 2006. Further advancement of this project would require more detailed analysis and interagency review. If implemented, the project is not expected to adversely impact air quality in the region.

4.9 Noise

Highway traffic noise, or unwanted sound, is one of the most common public complaints regarding highways. Although several options exist for addressing noise impacts, none are more effective than noise barriers, although they even have limited effectiveness. Barriers can only be effective if no openings exist, as noise will bend and infiltrate through such openings. Therefore, noise barriers can only be installed along roadways that either have full access control or have a significant stretch of roadway that has no driveway openings or intersecting roads. Other noise





mitigation measures that should be considered include quiet pavements, horizontal and vertical alignment shifts, and the acquisition of property along the roadway to create a buffer zone. It should be noted that Louisville Metro has a noise policy that restricts the placement of residential developments within a buffer of interstate facilities. Along the I-71/I-265 corridor most of the neighborhoods were developed in the late 1960's, near the time of the construction of I-71. However new developments have been constructed in areas directly adjacent to the existing Interstate. These developments constructed wooden fences to shield the residential development from the highway but do little or nothing to abate highway noise. Noise analysis will likely be required for any future capacity or project which would move traffic closer to adjacent property.

4.10 Threatened and Endangered Species

The US Fish and Wildlife Service (USFWS) website database was researched for federally protected species potentially affected by the project. Database research identified twelve endangered, no threatened, and two candidate species. One endangered species was a historical reference (American Burying Beetle) and is considered extirpated in Kentucky.

TABLE A
JEFFERSON COUNTY USFWS SPECIES LIST

Group	Species	Common name	Legal* Status	Known** Potential	Special Comments
Mammals	<i>Myotis grisescens</i>	gray bat	E	K	
	<i>Myotis sodalis</i>	Indiana bat	E	K	
Mussels	<i>Pleurobema clava</i>	clubshell	E	K	
	<i>Cyprogenia stegaria</i>	fanshell	E	K	
	<i>Potamilus capax</i>	fat pocketbook	E	K	
	<i>Plethobasus cooperianus</i>	orangefoot pimpleback	E	K	
	<i>Obovaria retusa</i>	ring pink	E	K	
	<i>Lampsilis abrupta</i>	pink mucket	E	K	
	<i>Plethobasus cyphus</i>	sheepnose	C	P	
	<i>Pleurobema plenum</i>	rough pigtoe	E	P	



Group	Species	Common name	Legal* Status	Known** Potential	Special Comments
Plants	<i>Trifolium stoloniferum</i>	running buffalo clover	E	K	
Birds	<i>Sterna antillarum</i>	interior least tern	E	K	
Insects	<i>Nicrophorus americanus</i>	American burying beetle	E	historic	considered extirpated
	<i>Pseudanophthalmus troglodytes</i>	Louisville cave beetle	C	K	

NOTES:

* Key to notations: E = Endangered, T = Threatened, C = Candidate, CH = Critical Habitat
**Key to notations: K = Known occurrence record within the county, P = Potential for the species to occur within the county based upon historic range, proximity to known occurrence records, biological, and physiographic characteristics.

The Kentucky Department of Fish and Wildlife Resources (KDFWR) materials were researched to identify threatened or endangered species known to occur in the project vicinity (Anchorage Quadrangle). Four endangered species were listed: American Coot, Bachman's Sparrow, Double-crested Cormorant, and Louisville Crayfish. Eight species of state concern were noted: Barn Owl, Beswick's Wren, Dark-eyed Junco, Great Blue Heron, Henslow's Sparrow, Northern Hairstreak, Savannah Sparrow, Sedge Wren, Sharp-shinned Hawk and Trout-perch. A summary of all KDFWR and Kentucky State Nature Preserve Commission (KSNPC) listings is included in **Appendix A**.

No surveys for protected species were performed. Potential habitat for the Indiana Bat and Gray Bat is believed to be present in the study area along Little Goose Creek and Wolf Pen Branch. Little Goose Creek has a documented mist-netting capture of an Indiana Bat during a Biological Assessment conducted for another project. More detailed



field surveys are required to confirm the presence of protected species in the study area, determine the presence or absence of suitable habitat for the species, and ascertain any potential impacts and mitigation requirements. Surveys must be conducted by a qualified biologist who holds the appropriate collection permits. Surveys would not be necessary if



sufficient site-specific information was available demonstrating: (1) no potentially suitable habitat exists within the study area or its vicinity; or (2) the species would not be present in the study area or its vicinity due to site-specific factors.

4.11 Kentucky Environmental Public Protection Cabinet (EPPC) Activities

Waste Water Activities: There are 67 identified KPDES permitted waste water activities located within one mile of the study area. Many of the listed facilities have multiple permitted discharge outfalls. Many of the facilities were permitted when they were built to attach to the public sewer system.

Water Resource Activities: There are 34 identified permitted water resource activities within one mile of the study area. Two facilities are permitted for dam and floodplain compliance activities. 31 facilities are permitted for floodplain management permits, most likely the result of construction within a floodplain. Most of these permits are listed to builders. One permitted water withdrawal is issued to Indian Springs Inc. This permit is most likely to withdrawal water for the golf course.

Hazardous Waste Activities: Six hazardous waste generator facilities are identified within one mile of the project study area. These facilities include 2 small quantity generators, 3 large quantity generators, and 1 undefined generator.

UST Activities: Eighteen underground storage tank locations are within one mile of the study area. The current status of the UST systems was not evaluated as part of this study.

Four of the identified sites with activities listed above are contained within the study area.

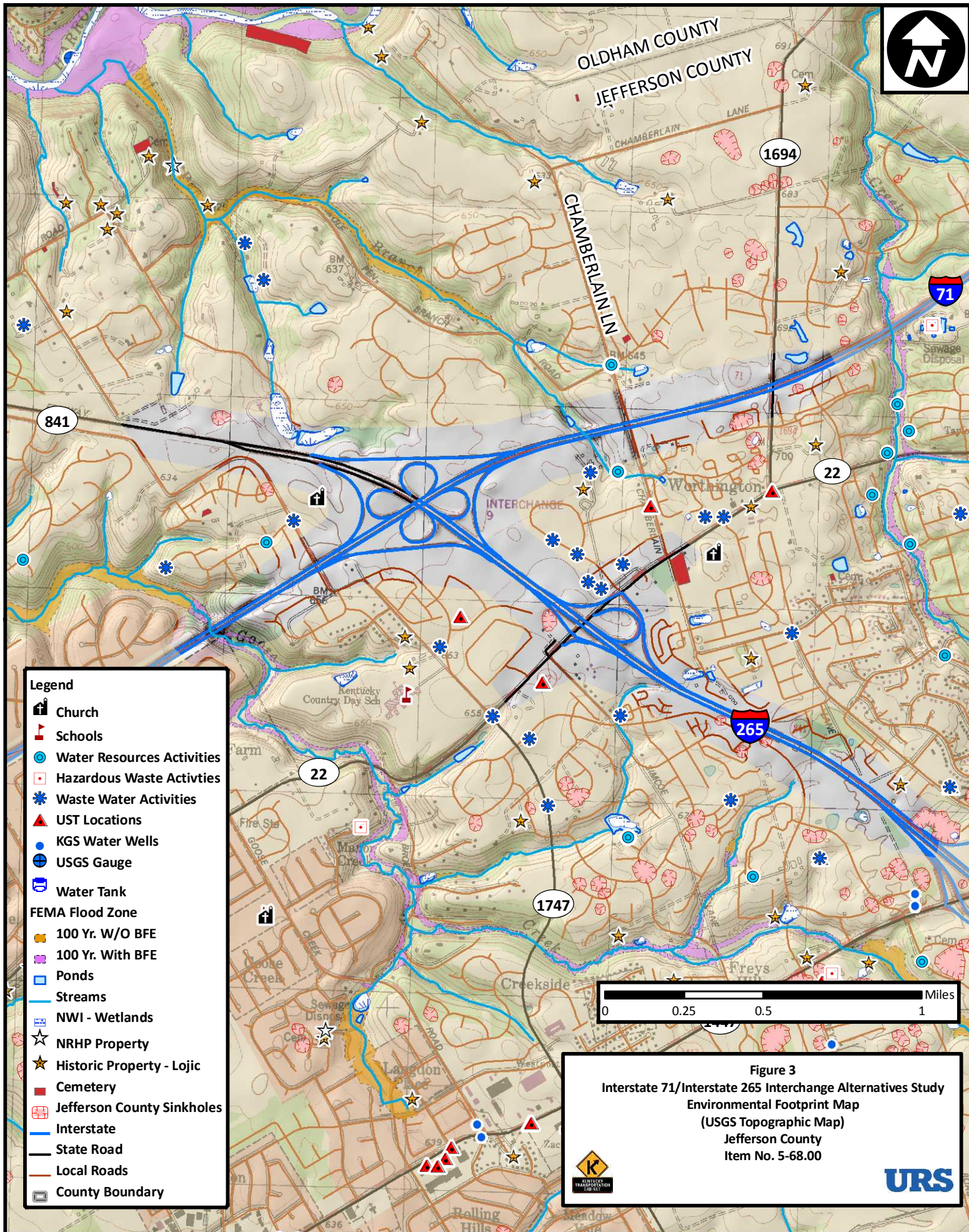


The sites are as follows:

Name	Location	Activity	Status
Speedway SuperAmerica #9373	9500 Brownsboro Road	UST	Active
Longhorn Steakhouse	9730 Von Allmen Court	Waste Water	Active
Olive Garden	9730 Von Allmen Court	Waste Water	Active
Chamberlain Pointe	9851 Von Allmen Court	Waste Water	Active

These sites would not be impacted by any of the proposed study alternatives. A listing of all facilities is included in **Appendix B**.

Figure 3 is a map of all identified environmental considerations within and adjacent to the study area.





4.12 Cultural Resources

A review of existing historic property information from the Louisville-Jefferson County Information Consortium (LOJIC) was conducted for the project study area. In addition, existing National Register of Historic Places (NRHP) properties data was collected from the National Park Service.

One NRHP property was identified within one mile of the study area:



Wolf Pen Branch Mill (pictured) is located at 5824 Chamberlain Lane.

Thirty three historic properties were identified in the LOJIC database:

NAME	ADDRESS
CEDARBROOK FARM	4800 SPRINGDALE RD
SMOKE HOUSE	7605 WOLFSPRING CT
KILLINURE STOCK FARM	10207 KILLINUR CT
JAMES WHEELER HOUSE	6100 CHAMBERLAIN LN
MRS S TAYLOR HOUSE	6101 CHAMBERLAIN LANE
MCLAIN HOUSE	5820 CHAMBERLAIN LN
H MILLER HOUSE	8117 WOLF PEN BRANCH RD
T G PEYTON HOUSE	WOLF PEN BRANCH RD
SKINNER-PEYTON HOUSE	7849 WOLF PEN BRANCH RD
J E SKINNER HOUSE	WOLF PEN BRANCH RD
LEONARD HOKE HOUSE	5215 SPRING FARM RD
J W KNUCKLES HOUSE	7902 WOLF PEN BRANCH RD
MRS URTON HOUSE	9400 GREEN GLADE LN
WOLF PEN BRANCH MILL BTWN JF578-9	BTWN 7839 & 8121 WOLF PEN BRANCH RD
VON ALLMEN DAIRY FARM	5050 NORTON HEALTHCARE BLVD
YOUNG-DORSEY SPRINGHOUSE	10451 CHAMPION FARMS DRIVE
BALLARDSVILLE CHURCH CEMETERY	BTWN 4700 & 4802 MURPHY LANE



NAME	ADDRESS
WILLIAMS-PHILLIPS CEMETERY	MURPHY LANE & NANSEMOND DR
HOUSE	8000 BROWNSBORO RD
A MARTIN HOUSE	1009 WESTPORT RD
R C CARDWELL HOUSE DEMO 1997 AERIAL	9910 FRINGE TREE CT
HOUSE DEMO FROM 1997 AERIAL	4308 OLD SPRINGDALE RD
JAMES FITZGERALD HOUSE [PVA1900]	4316 OLD SPRINGDALE RD
MRS BOOKER HOUSE	3331 FREYS HILL RD
J W NEWMAN HOUSE (DEMOL)	3715 CHAMBERLAIN LANE
S HUNT HOUSE (DEMOL)	ROW BTWN 4402 & 4403 WHITE PINE WAY
WORTHINGTON POTATO BARN	10004 BROWNSBORO RD
BARBOUR-SIMS HOUSE	10201 BROWNSBORO RD
MURPHY HOUSE	11509 TAZWELL DR
MRS BRENNER HOUSE DEMO 1997 AERIAL	10403 WESTPORT RD LOUISVILLE KY
MADDOX CEMETERY	BEHIND 11101 BROWNSBORO RD
W ROOT HOUSE	8221 WOLF PEN BRANCH RD
P HOKE HOUSE	7607 WOLF PEN BRANCH RD

Historical resources are located within one mile of the study area. However proposed improvements would have no direct effect on these resources. Proposed flyover ramps may pose a possible visual effect, therefore a viewshed analysis will be required should this alternative be considered in the future.

Archaeological Resources: A review of OSA database information was not conducted as part of this overview due to the nature of the study area. The study area is primarily existing interstate right of way. Any proposed improvements which would require additional right of way in previously undisturbed areas would require a Phase I assessment for potential archaeological deposits.



4.13 Section 4(f)/Section 6(f) Resources

There are no identified Section 4(f) resources or 6(f) resources within the study area. Springdale Baptist Church has ball fields but the church is privately owned. Therefore, it is not likely these fields constitute a public recreational use.

4.14 Land Use

There are 701 identified parcels within or directly adjacent to the study area. Land use adjacent to the interchange is residential mixed with commercial. A large commercial development Old Brownsboro Crossing is located in the southeast corner of the existing I-71/I-265 interchange. This development contains a Lowes, Costco, Norton Hospital and Immediate Care Center, numerous restaurants, and a Children's Hospital (under construction). The southwest corner of the I-71/I-265 interchange is primarily commercial with the Summit shopping center, a Hilton Garden Inn, and commercial office buildings. A senior care facility is located on Springdale Road adjacent to the beginning of ramp 5 from I-71 NB to I-265 SB. The Springdale Baptist Church is located on the Northwest corner of the I-71/I-265 interchange and consists of 32 acres with ball fields, church, and other facilities. Land on the northeast corner of the existing interchange is primarily undeveloped with large acreage single family homes.

Land adjacent to I-265 between KY-22 and Westport Road (KY 1447) is residential mixed with commercial. The Springhurst shopping complex is located on the west side of I-265 and contains the Tinseltown movie complex, Kohl's, Target, Meijer and other stores and restaurants. On the east side of I-265 is a Walmart and Hampton Inn.

Potential impacts with the proposed improvements are as follows:

Alternative 5A: May require acquisition of additional right of way to reconstruct Springdale Road Bridge.

Alternative 8A: May require acquisition of additional right of way to reconstruct Springdale Road Bridge. Flyover ramp from KY 841 SB to I-71 NB would most likely require right of way



from the Springdale Baptist Church located in the northwest corner of the existing interchange. CD Lanes on I-265, between I-71 and KY-22, as proposed would most likely require right of way from adjacent parcels. An additional lane in each direction added to the outside of I-71 NB and SB to I-264 may require right of way near existing bridges and overpasses.

Alternative 10A: May require acquisition of additional right of way to reconstruct Springdale Road Bridge.

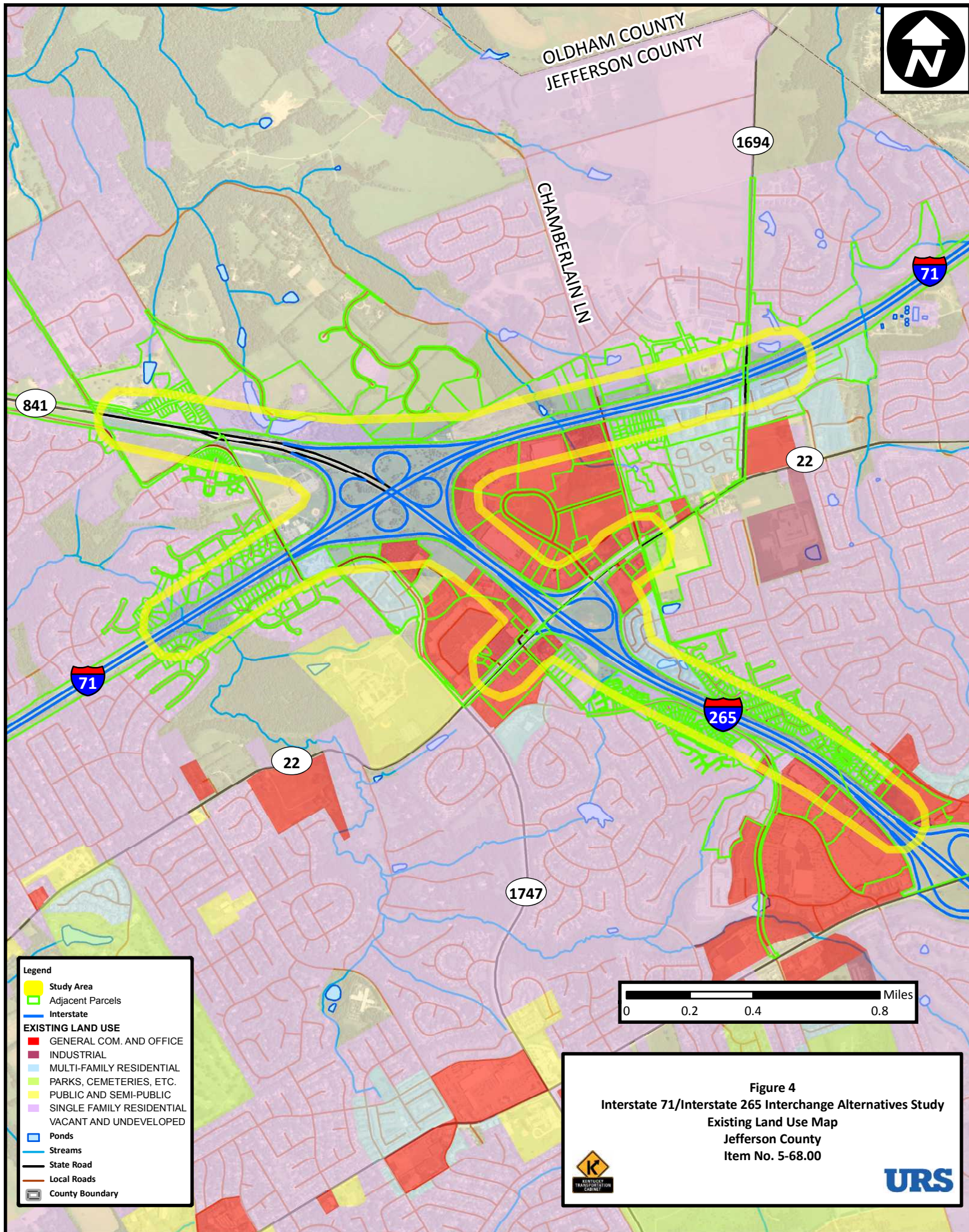
Figure 4 shows existing land use adjacent to the study area. Adjacent parcel lines are shown, this information was obtained from existing Lojic mapping.

4.15 Farmland

Within the study area undeveloped land is prevalent in the northeast corner of the existing I-71/I-265 interchange. This land is not used for agricultural purposes and is under increased development pressure. Old Brownsboro Crossing on KY-22 prior to development was a sod farm. Unique or prime farm land is not located within the study area.

4.16 Natural Areas

A review of KSNPC and KDFWR data and mapping indicates there are no identified natural areas within the project study area.



4.17 Environmental Justice

Information was obtained from US Environmental Protection Agency (USEPA) regarding potential environmental justice concerns within the project study area using the EJ Mapper.

The following is a summary of the EJ Assessment:

- Has a population of 22,634.
- 86.4% of the population is White.
- There are 8977 households within the assessment area.
- 74.6% of the population is 18 years and older.
- 43.2% of the households in the assessment have an income greater than \$75,000.



Environmental justice issues are not likely within the study area based on the assessment. Information obtained from USEPA is included in **Appendix C**.

APPENDIX A

Scientific Name and Life History	Common Name and Pictures	Class	Quad	US Status	KY Status	WAP	Reference
Empidonax virescens	Acadian Flycatcher	Aves	Anchorage	N	N		Reference
Empidonax alnorum	Alder Flycatcher	Aves	Anchorage	N	N		Reference
Castor canadensis	American Beaver	Mammalia	Anchorage	N	N		Reference
Fulica americana	American Coot	Aves	Anchorage	N	E		Reference
Corvus brachyrhynchos	American Crow	Aves	Anchorage	N	N		Reference
Carduelis tristis	American Goldfinch	Aves	Anchorage	N	N		Reference
Falco sparverius	American Kestrel	Aves	Anchorage	N	N		Reference
Turdus migratorius	American Robin	Aves	Anchorage	N	N		Reference
Spizella arborea	American Tree Sparrow	Aves	Anchorage	N	N		Reference
Scolopax minor	American Woodcock	Aves	Anchorage	N	N	Yes	Reference
Aimophila aestivalis	Bachman's Sparrow	Aves	Anchorage	N	E	Yes	Reference
Icterus galbula	Baltimore Oriole	Aves	Anchorage	N	N		Reference
Etheostoma zonale	Banded Darter	Actinopterygii	Anchorage	N	N		Reference
Tyto alba	Barn Owl	Aves	Anchorage	N	S	Yes	Reference
Hirundo rustica	Barn Swallow	Aves	Anchorage	N	N		Reference
Strix varia	Barred Owl	Aves	Anchorage	N	N		Reference
Megaceryle alcyon	Belted Kingfisher	Aves	Anchorage	N	N		Reference
Thryomanes bewickii	Bewick's Wren	Aves	Anchorage	N	S	Yes	Reference
Eptesicus fuscus	Big Brown Bat	Mammalia	Anchorage	N	N		Reference
Notropis boops	Bigeye Shiner	Actinopterygii	Anchorage	N	N		Reference
Moxostoma duquesnei	Black Redhorse	Actinopterygii	Anchorage	N	N		Reference
Coragyps atratus	Black Vulture	Aves	Anchorage	N	N		Reference
Mniotilta varia	Black-and-white Warbler	Aves	Anchorage	N	N		Reference
Coccyzus erythrophthalmus	Black-billed Cuckoo	Aves	Anchorage	N	N		Reference
Dendroica striata	Blackpoll Warbler	Aves	Anchorage	N	N		Reference
Fundulus notatus	Blackstripe Topminnow	Actinopterygii	Anchorage	N	N		Reference
Passerina caerulea	Blue Grosbeak	Aves	Anchorage	N	N		Reference
Cyanocitta cristata	Blue Jay	Aves	Anchorage	N	N		Reference
Polioptila caerulea	Blue-gray Gnatcatcher	Aves	Anchorage	N	N		Reference
Vireo solitarius	Blue-headed Vireo	Aves	Anchorage	N	N		Reference
Lepomis macrochirus	Bluegill	Actinopterygii	Anchorage	N	N		Reference
Pimephales notatus	Bluntnose Minnow	Actinopterygii	Anchorage	N	N		Reference
Lynx rufus	Bobcat	Mammalia	Anchorage	N	N		Reference
Euphagus cyanocephalus	Brewer's Blackbird	Aves	Anchorage	N	N		Reference
Vermivora leucobranchialis	Brewster's Warbler	Aves	Anchorage	N	N		Reference
Labidesthes sicculus	Brook Silverside	Actinopterygii	Anchorage	N	N		Reference
Toxostoma rufum	Brown Thrasher	Aves	Anchorage	N	N		Reference

Molothrus ater	Brown-headed Cowbird	Aves	Anchorage	N	N		Reference
Bucephala albeola	Bufflehead	Aves	Anchorage	N	N		Reference
Rana catesbeiana	Bullfrog	Amphibia	Anchorage	N	N		Reference
Branta hutchinsii	Cackling Goose	Aves	Anchorage	N	N		Reference
Branta canadensis	Canada Goose	Aves	Anchorage	N	N		Reference
Dendroica tigrina	Cape May Warbler	Aves	Anchorage	N	N		Reference
Poecile carolinensis	Carolina Chickadee	Aves	Anchorage	N	N		Reference
Thryothorus ludovicianus	Carolina Wren	Aves	Anchorage	N	N		Reference
Eurycea lucifuga	Cave Salamander	Amphibia	Anchorage	N	N		Reference
Bombicilla cedrorum	Cedar Waxwing	Aves	Anchorage	N	N		Reference
Campostoma anomalum	Central Stoneroller	Actinopterygii	Anchorage	N	N		Reference
Dendroica pensylvanica	Chestnut-sided Warbler	Aves	Anchorage	N	N		Reference
Chaetura pelagica	Chimney Swift	Aves	Anchorage	N	N		Reference
Spizella passerina	Chipping Sparrow	Aves	Anchorage	N	N		Reference
Spizella pallida	Clay-colored Sparrow	Aves	Anchorage	N	N		Reference
Cyprinus carpio	Common Carp	Actinopterygii	Anchorage	N	N		Reference
Bucephala clangula	Common Goldeneye	Aves	Anchorage	N	N		Reference
Quiscalus quiscula	Common Grackle	Aves	Anchorage	N	N		Reference
Gavia immer	Common Loon	Aves	Anchorage	N	N		Reference
Mergus merganser	Common Merganser	Aves	Anchorage	N	N		Reference
Chordeiles minor	Common Nighthawk	Aves	Anchorage	N	N		Reference
Geothlypis trichas	Common Yellowthroat	Aves	Anchorage	N	N		Reference
Oporornis agilis	Connecticut Warbler	Aves	Anchorage	N	N		Reference
Accipiter cooperii	Cooper's Hawk	Aves	Anchorage	N	N		Reference
Semotilus atromaculatus	Creek Chub	Actinopterygii	Anchorage	N	N		Reference
Junco hyemalis	Dark-eyed Junco	Aves	Anchorage	N	S		Reference
Spiza americana	Dickcissel	Aves	Anchorage	N	N	Yes	Reference
Phalacrocorax auritus	Double-crested Cormorant	Aves	Anchorage	N	E		Reference
Picoides pubescens	Downy Woodpecker	Aves	Anchorage	N	N		Reference
Sialia sialis	Eastern Bluebird	Aves	Anchorage	N	N		Reference
Terrapene carolina carolina	Eastern Box Turtle	Reptilia	Anchorage	N	N		Reference
Tamias striatus	Eastern Chipmunk	Mammalia	Anchorage	N	N		Reference
Sylvilagus floridanus	Eastern Cottontail	Mammalia	Anchorage	N	N		Reference
Sciurus niger	Eastern Fox Squirrel	Mammalia	Anchorage	PS	N		Reference
Sciurus carolinensis	Eastern Gray Squirrel	Mammalia	Anchorage	N	N		Reference
Tyrannus tyrannus	Eastern Kingbird	Aves	Anchorage	N	N		Reference
Sturnella magna	Eastern Meadowlark	Aves	Anchorage	N	N		Reference
Scalopus aquaticus	Eastern Mole	Mammalia	Anchorage	N	N		Reference

Sayornis phoebe	Eastern Phoebe	Aves	Anchorage	N	N		Reference
Lasiurus borealis	Eastern Red Bat	Mammalia	Anchorage	N	N		Reference
Megascops asio	Eastern Screech-Owl	Aves	Anchorage	N	N		Reference
Pipilo erythrophthalmus	Eastern Towhee	Aves	Anchorage	N	N		Reference
Contopus virens	Eastern Wood-Pewee	Aves	Anchorage	N	N		Reference
Notropis atherinoides	Emerald Shiner	Actinopterygii	Anchorage	N	N		Reference
Sturnus vulgaris	European Starling	Aves	Anchorage	N	N		Reference
Etheostoma flabellare	Fantail Darter	Actinopterygii	Anchorage	N	N		Reference
Pimephales promelas	Fathead Minnow	Actinopterygii	Anchorage	N	N		Reference
Spizella pusilla	Field Sparrow	Aves	Anchorage	N	N		Reference
Bufo fowleri	Fowler's Toad	Amphibia	Anchorage	N	N		Reference
Passerella iliaca	Fox Sparrow	Aves	Anchorage	N	N		Reference
Aplodinotus grunniens	Freshwater Drum	Actinopterygii	Anchorage	N	N		Reference
Dorosoma cepedianum	Gizzard Shad	Actinopterygii	Anchorage	N	N		Reference
Moxostoma erythrurum	Golden Redhorse	Actinopterygii	Anchorage	N	N		Reference
Notemigonus crysoleucas	Golden Shiner	Actinopterygii	Anchorage	N	N		Reference
Regulus satrapa	Golden-crowned Kinglet	Aves	Anchorage	N	N		Reference
Ammodramus savannarum	Grasshopper Sparrow	Aves	Anchorage	PS	N	Yes	Reference
Dumetella carolinensis	Gray Catbird	Aves	Anchorage	N	N		Reference
Ardea herodias	Great Blue Heron	Aves	Anchorage	N	S		Reference
Myiarchus crinitus	Great Crested Flycatcher	Aves	Anchorage	N	N		Reference
Bubo virginianus	Great Horned Owl	Aves	Anchorage	N	N		Reference
Rana clamitans melanota	Green Frog	Amphibia	Anchorage	N	N		Reference
Butorides virescens	Green Heron	Aves	Anchorage	N	N		Reference
Lepomis cyanellus	Green Sunfish	Actinopterygii	Anchorage	N	N		Reference
Anas crecca	Green-winged Teal	Aves	Anchorage	N	N		Reference
Etheostoma blennioides	Greenside Darter	Actinopterygii	Anchorage	N	N		Reference
Scincella lateralis	Ground Skink	Reptilia	Anchorage	N	N		Reference
Picoides villosus	Hairy Woodpecker	Aves	Anchorage	N	N		Reference
Ammodramus henslowii	Henslow's Sparrow	Aves	Anchorage	N	S	Yes	Reference
Catharus guttatus	Hermit Thrush	Aves	Anchorage	N	N		Reference
Larus argentatus	Herring Gull	Aves	Anchorage	N	N		Reference
Eremophila alpestris	Horned Lark	Aves	Anchorage	PS	N		Reference
Carpodacus mexicanus	House Finch	Aves	Anchorage	N	N		Reference
Passer domesticus	House Sparrow	Aves	Anchorage	N	N		Reference
Troglodytes aedon	House Wren	Aves	Anchorage	N	N		Reference
Passerina cyanea	Indigo Bunting	Aves	Anchorage	N	N		Reference
Etheostoma nigrum	Johnny Darter	Actinopterygii	Anchorage	N	N		Reference

Orconectes juvenilis	Kentucky River Crayfish	Malacostraca	Anchorage	N	N		Reference
Oporornis formosus	Kentucky Warbler	Aves	Anchorage	N	N	Yes	Reference
Charadrius vociferus	Killdeer	Aves	Anchorage	N	N		Reference
Calcarius lapponicus	Lapland Longspur	Aves	Anchorage	N	N		Reference
Micropterus salmoides	Largemouth Bass	Actinopterygii	Anchorage	N	N		Reference
Ammodramus leconteii	Le Conte's Sparrow	Aves	Anchorage	N	N		Reference
Calidris minutilla	Least Sandpiper	Aves	Anchorage	N	N		Reference
Aythya affinis	Lesser Scaup	Aves	Anchorage	N	N		Reference
Melospiza lincolni	Lincoln's Sparrow	Aves	Anchorage	N	N		Reference
Percina caprodes	Logperch	Actinopterygii	Anchorage	N	N		Reference
Clangula hyemalis	Long-tailed Duck	Aves	Anchorage	N	N		Reference
Lepomis megalotis	Longear Sunfish	Actinopterygii	Anchorage	N	N		Reference
Seiurus motacilla	Louisiana Waterthrush	Aves	Anchorage	N	N	Yes	Reference
Orconectes jeffersoni	Louisville Crayfish	Malacostraca	Anchorage	N	E		Reference
Dendroica magnolia	Magnolia Warbler	Aves	Anchorage	N	N		Reference
Anas platyrhynchos	Mallard	Aves	Anchorage	N	N		Reference
Cistothorus palustris	Marsh Wren	Aves	Anchorage	N	N		Reference
Falco columbarius	Merlin	Aves	Anchorage	N	N		Reference
Zenaida macroura	Mourning Dove	Aves	Anchorage	N	N		Reference
Oporornis philadelphia	Mourning Warbler	Aves	Anchorage	N	N		Reference
Ondatra zibethicus	Muskrat	Mammalia	Anchorage	N	N		Reference
Cygnus olor	Mute Swan	Aves	Anchorage	N	N		Reference
Vermivora ruficapilla	Nashville Warbler	Aves	Anchorage	N	N		Reference
Ammodramus nelsoni	Nelson's Sparrow	Aves	Anchorage	N	N		Reference
Colinus virginianus	Northern Bobwhite	Aves	Anchorage	PS	N	Yes	Reference
Cardinalis cardinalis	Northern Cardinal	Aves	Anchorage	N	N		Reference
Acris crepitans	Northern Cricket Frog	Amphibia	Anchorage	N	N		Reference
Desmognathus fuscus	Northern Dusky Salamander	Amphibia	Anchorage	N	N		Reference
Colaptes auratus	Northern Flicker	Aves	Anchorage	N	N		Reference
Satyrium favonius ontario	Northern Hairstreak	Insecta	Anchorage	N	S		Reference
Hypentelium nigricans	Northern Hog Sucker	Actinopterygii	Anchorage	N	N		Reference
Mimus polyglottos	Northern Mockingbird	Aves	Anchorage	N	N		Reference
Procyon lotor	Northern Raccoon	Mammalia	Anchorage	N	N		Reference
Stelgidopteryx serripennis	Northern Rough-winged Swallow	Aves	Anchorage	N	N		Reference
Aegolius acadicus	Northern Saw-whet Owl	Aves	Anchorage	N	N		Reference
Lanius excubitor	Northern Shrike	Aves	Anchorage	N	N		Reference
Seiurus noveboracensis	Northern Waterthrush	Aves	Anchorage	N	N		Reference
Plethodon dorsalis	Northern Zigzag Salamander	Amphibia	Anchorage	N	N		Reference

Contopus cooperi	Olive-sided Flycatcher	Aves	Anchorage	N	N		Reference
Vermivora celata	Orange-crowned Warbler	Aves	Anchorage	N	N		Reference
Etheostoma spectabile	Orangethroat Darter	Actinopterygii	Anchorage	N	N		Reference
Icterus spurius	Orchard Oriole	Aves	Anchorage	N	N		Reference
Chrysemys picta	Painted Turtle	Reptilia	Anchorage	N	N		Reference
Dendroica palmarum	Palm Warbler	Aves	Anchorage	N	N		Reference
Vireo philadelphicus	Philadelphia Vireo	Aves	Anchorage	N	N		Reference
Rana palustris	Pickerel Frog	Amphibia	Anchorage	N	N		Reference
Dryocopus pileatus	Pileated Woodpecker	Aves	Anchorage	N	N		Reference
Carduelis pinus	Pine Siskin	Aves	Anchorage	N	N		Reference
Dendroica discolor	Prairie Warbler	Aves	Anchorage	N	N	Yes	Reference
Carpodacus purpureus	Purple Finch	Aves	Anchorage	N	N		Reference
Progne subis	Purple Martin	Aves	Anchorage	N	N		Reference
Etheostoma caeruleum	Rainbow Darter	Actinopterygii	Anchorage	N	N		Reference
Plethodon richmondi	Ravine Salamander	Amphibia	Anchorage	N	N		Reference
Melanerpes carolinus	Red-bellied Woodpecker	Aves	Anchorage	N	N		Reference
Mergus serrator	Red-breasted Merganser	Aves	Anchorage	N	N		Reference
Vireo olivaceus	Red-eyed Vireo	Aves	Anchorage	N	N		Reference
Melanerpes erythrocephalus	Red-headed Woodpecker	Aves	Anchorage	N	N	Yes	Reference
Buteo lineatus	Red-shouldered Hawk	Aves	Anchorage	N	N		Reference
Buteo jamaicensis	Red-tailed Hawk	Aves	Anchorage	N	N		Reference
Agelaius phoeniceus	Red-winged Blackbird	Aves	Anchorage	N	N		Reference
Lepomis microlophus	Redear Sunfish	Actinopterygii	Anchorage	N	N		Reference
Lythrurus umbratilis	Redfin Shiner	Actinopterygii	Anchorage	N	N		Reference
Aythya americana	Redhead	Aves	Anchorage	N	N		Reference
Larus delawarensis	Ring-billed Gull	Aves	Anchorage	N	N		Reference
Aythya collaris	Ring-necked Duck	Aves	Anchorage	N	N		Reference
Ambloplites rupestris	Rock Bass	Actinopterygii	Anchorage	N	N		Reference
Columba livia	Rock Pigeon	Aves	Anchorage	N	N		Reference
Regulus calendula	Ruby-crowned Kinglet	Aves	Anchorage	N	N		Reference
Archilochus colubris	Ruby-throated Hummingbird	Aves	Anchorage	N	N		Reference
Oxyura jamaicensis	Ruddy Duck	Aves	Anchorage	N	N		Reference
Euphagus carolinus	Rusty Blackbird	Aves	Anchorage	N	N	Yes	Reference
Notropis stramineus	Sand Shiner	Actinopterygii	Anchorage	N	N		Reference
Grus canadensis	Sandhill Crane	Aves	Anchorage	PS	N		Reference
Passerculus sandwichensis	Savannah Sparrow	Aves	Anchorage	N	S	Yes	Reference
Lythrurus fasciolaris	Scarlet Shiner	Actinopterygii	Anchorage	N	N		Reference
Piranga olivacea	Scarlet Tanager	Aves	Anchorage	N	N		Reference

Cistothorus platensis	Sedge Wren	Aves	Anchorage	N	S	Yes	Reference
Accipiter striatus	Sharp-shinned Hawk	Aves	Anchorage	PS	S	Yes	Reference
Notropis buccatus	Silverjaw Minnow	Actinopterygii	Anchorage	N	N		Reference
Alosa chrysochloris	Skipjack Herring	Actinopterygii	Anchorage	N	N		Reference
Plethodon glutinosus	Slimy Salamander	Amphibia	Anchorage	N	N		Reference
Micropterus dolomieu	Smallmouth Bass	Actinopterygii	Anchorage	N	N		Reference
Moxostoma breviceps	Smallmouth Redhorse	Actinopterygii	Anchorage	N	N		Reference
Plectrophenax nivalis	Snow Bunting	Aves	Anchorage	N	N		Reference
Melospiza melodia	Song Sparrow	Aves	Anchorage	N	N		Reference
Porzana carolina	Sora	Aves	Anchorage	N	N		Reference
Eurycea cirrigera	Southern Two-lined Salamander	Amphibia	Anchorage	N	N		Reference
Etheostoma squamiceps	Spottail Darter	Actinopterygii	Anchorage	N	N		Reference
Micropterus punctulatus	Spotted Bass	Actinopterygii	Anchorage	N	N		Reference
Noturus flavus	Stonecat	Actinopterygii	Anchorage	N	N		Reference
Luxilus chrysocephalus	Striped Shiner	Actinopterygii	Anchorage	N	N		Reference
Mephitis mephitis	Striped Skunk	Mammalia	Anchorage	N	N		Reference
Piranga rubra	Summer Tanager	Aves	Anchorage	N	N		Reference
Melospiza georgiana	Swamp Sparrow	Aves	Anchorage	N	N		Reference
Vermivora peregrina	Tennessee Warbler	Aves	Anchorage	N	N		Reference
Percopsis omiscomaycus	Trout-perch	Actinopterygii	Anchorage	N	S		Reference
Baeolophus bicolor	Tufted Titmouse	Aves	Anchorage	N	N		Reference
Cathartes aura	Turkey Vulture	Aves	Anchorage	N	N		Reference
Didelphis virginiana	Virginia Opossum	Mammalia	Anchorage	N	N		Reference
Rallus limicola	Virginia Rail	Aves	Anchorage	N	N		Reference
Vireo gilvus	Warbling Vireo	Aves	Anchorage	N	N		Reference
Lepomis gulosus	Warmouth	Actinopterygii	Anchorage	N	N		Reference
Gambusia affinis	Western Mosquitofish	Actinopterygii	Anchorage	N	N		Reference
Catostomus commersoni	White Sucker	Actinopterygii	Anchorage	N	N		Reference
Sitta carolinensis	White-breasted Nuthatch	Aves	Anchorage	N	N		Reference
Zonotrichia leucophrys	White-crowned Sparrow	Aves	Anchorage	N	N		Reference
Vireo griseus	White-eyed Vireo	Aves	Anchorage	N	N		Reference
Odocoileus virginianus	White-tailed Deer	Mammalia	Anchorage	PS	N		Reference
Zonotrichia albicollis	White-throated Sparrow	Aves	Anchorage	N	N		Reference
Melanitta fusca	White-winged Scoter	Aves	Anchorage	N	N		Reference
Wilsonia pusilla	Wilson's Warbler	Aves	Anchorage	N	N		Reference
Troglodytes troglodytes	Winter Wren	Aves	Anchorage	N	N		Reference
Aix sponsa	Wood Duck	Aves	Anchorage	N	N		Reference
Hylocichla mustelina	Wood Thrush	Aves	Anchorage	N	N	Yes	Reference

Ameiurus natalis	Yellow Bullhead	Actinopterygii	Anchorage	N	N		Reference
Dendroica petechia	Yellow Warbler	Aves	Anchorage	N	N		Reference
Empidonax flaviventris	Yellow-bellied Flycatcher	Aves	Anchorage	N	N		Reference
Sphyrapicus varius	Yellow-bellied Sapsucker	Aves	Anchorage	N	N		Reference
Coccyzus americanus	Yellow-billed Cuckoo	Aves	Anchorage	PS	N		Reference
Icteria virens	Yellow-breasted Chat	Aves	Anchorage	N	N		Reference
Dendroica coronata	Yellow-rumped Warbler	Aves	Anchorage	N	N		Reference
Vireo flavifrons	Yellow-throated Vireo	Aves	Anchorage	N	N		Reference
Dendroica dominica	Yellow-throated Warbler	Aves	Anchorage	N	N		Reference

236 species are listed.

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County Report of Endangered, Threatened, and Special Concern Plants, Animals, and Natural Communities of Kentucky
Kentucky State Nature Preserves Commission

Kentucky State Nature Preserves Commission

County	Taxonomic Group	Scientific name	Common name	Statuses	Ranks	# of Occurrences				
						E	H	F	X	U
Jackson	Freshwater Mussels	<i>Quadrula cylindrica cylindrica</i>	Rabbitsfoot	T / C	G3G4T3 / S2	0	0	0	1	0
Jackson	Freshwater Mussels	<i>Toxolasma lividus</i>	Purple Liliuput	E / SOMC	G2 / S1	11	0	1	1	0
Jackson	Freshwater Mussels	<i>Villosa lienosa</i>	Little Spectaclecase	S /	G5 / S3S4	0	0	2	0	0
Jackson	Freshwater Mussels	<i>Villosa trabalis</i>	Cumberland Bean	E / LE	G1 / S1	15	0	9	0	0
Jackson	Insects	<i>Dannella provonshai</i>	An Ephemerellid Mayfly	H /	G3G4 / SH	0	1	0	0	0
Jackson	Insects	<i>Habrophlebiodes celeteria</i>	A Leptophlebiid Mayfly	H /	G2G4 / SH	0	1	0	0	0
Jackson	Insects	<i>Ophiogomphus howei</i>	Pygmy Snaketail	T / SOMC	G3 / S1S2	1	0	0	0	0
Jackson	Other Invertebrates	<i>Geocentrophora cavernicola</i>	A Cave Obligate Planarian	T /	G1G2 / S1S2	0	1	0	0	0
Jackson	Fishes	<i>Etheostoma cinereum</i>	Ashy Darter	S / SOMC	G2G3 / S3	7	0	0	0	0
Jackson	Fishes	<i>Ichthyomyzon fossor</i>	Northern Brook Lamprey	T /	G4 / S2	1	0	0	0	0
Jackson	Fishes	<i>Lampetra appendix</i>	American Brook Lamprey	T /	G4 / S2	1	0	0	0	0
Jackson	Fishes	<i>Percina squamata</i>	Olive Darter	E / SOMC	G3 / S1	1	0	0	0	0
Jackson	Mammals	<i>Corynorhinus rafinesquii</i>	Rafinesque's Big-eared Bat	S / SOMC	G3G4 / S3	29	0	2	0	0
Jackson	Mammals	<i>Corynorhinus townsendii virginianus</i>	Virginia Big-eared Bat	E / LE	G4T2 / S1	14	0	0	0	0
Jackson	Mammals	<i>Myotis leibii</i>	Eastern Small-footed Myotis	T / SOMC	G3 / S2	9	0	0	0	0
Jackson	Mammals	<i>Myotis sodalis</i>	Indiana Bat	E / LE	G2 / S1S2	15	0	3	0	0
Jackson	Communities	<i>Appalachian mesophytic forest</i>		/	GNR / S4S5	6	0	0	0	1
Jackson	Communities	<i>Appalachian pine-oak forest</i>		/	GNR / S5	1	0	0	0	0
Jackson	Communities	<i>Appalachian seep/bog</i>		/	GNR / S1S2	7	0	0	0	0
Jackson	Communities	<i>Appalachian sub-xeric forest</i>		/	GNR / S5	1	0	0	0	0
Jackson	Communities	<i>Cumberland Plateau gravel/cobble bar</i>		/	GNR / S1S2	4	0	0	0	0
Jackson	Communities	<i>Cumberland Plateau sandstone glade</i>		/	GNR / S1	3	0	0	0	0
Jackson	Communities	<i>Hemlock-mixed forest</i>		/	GNR / S4S5	4	0	0	0	0
Jackson	Communities	<i>Xeric Virginia pine forest/woodland</i>		/	GNR / S5	1	0	0	0	0
Jackson County Total:						188	12	24	4	1
Jefferson	Vascular Plants	<i>Aristida ramosissima</i>	Branched Three-awn Grass	H /	G5 / SH	0	1	0	0	0
Jefferson	Vascular Plants	<i>Cabomba caroliniana</i>	Carolina Fanwort	T /	G3G5 / S2	0	1	0	1	0
Jefferson	Vascular Plants	<i>Castanea pumila</i>	Allegheny Chinkapin	T /	G5 / S2	0	1	0	0	0
Jefferson	Vascular Plants	<i>Dryopteris carthusiana</i>	Spinulose Wood Fern	S /	G5 / S3	0	0	1	0	0
Jefferson	Vascular Plants	<i>Heteranthera dubia</i>	Grassleaf Mud-plantain	S /	G5 / S3	0	1	0	0	0
Jefferson	Vascular Plants	<i>Leavenworthia exigua var. lacinata</i>	Kentucky Gladecress	E / C	G4T1T2 / S1S2	9	0	1	2	0
Jefferson	Vascular Plants	<i>Podostemum ceratophyllum</i>	Threadfoot	S /	G5 / S3	0	1	0	0	0
Jefferson	Vascular Plants	<i>Pontederia cordata</i>	Pickrel-weed	T /	G5 / S1S2	0	1	0	0	0
Jefferson	Vascular Plants	<i>Potamogeton illinoensis</i>	Illinois Pondweed	S /	G5 / S2	0	1	0	0	0
Jefferson	Vascular Plants	<i>Sagittaria graminea</i>	Grassleaf Arrowhead	T /	G5 / S1S2	0	1	0	0	0
Jefferson	Vascular Plants	<i>Solidago shortii</i>	Short's Goldenrod	E / LE	G1 / S1	0	0	0	1	0
Jefferson	Vascular Plants	<i>Stellaria longifolia</i>	Longleaf Stitchwort	S /	G5 / S2S3	1	0	0	0	0

County Report of Endangered, Threatened, and Special Concern Plants, Animals, and Natural Communities of Kentucky
 Kentucky State Nature Preserves Commission

County	Taxonomic Group	Scientific name	Common name	Statuses	Ranks	# of Occurrences				
						E	H	F	X	U
Jefferson	Vascular Plants	<i>Trifolium stoloniferum</i>	Running Buffalo Clover	T / LE	G3 / S2S3	2	0	0	1	0
Jefferson	Vascular Plants	<i>Vallisneria americana</i>	Eelgrass	S /	G5 / S2S3	2	0	0	0	0
Jefferson	Vascular Plants	<i>Veratrum woodii</i>	Wood's Bunchflower	T /	G5 / S2	0	1	0	0	0
Jefferson	Vascular Plants	<i>Viola septemloba</i> var. <i>egglesonii</i>	Eggleson's Violet	S /	G4 / S3	5	0	0	0	0
Jefferson	Vascular Plants	<i>Vitis labrusca</i>	Northern Fox Grape	S /	G5 / S2S3	0	1	0	0	0
Jefferson	Aquatic Snails	<i>Leptoxis praerosa</i>	Onyx Rocksnail	S / SOMC	G5 / S3S4	0	1	0	0	0
Jefferson	Aquatic Snails	<i>Lithasia verrucosa</i>	Varicose Rocksnail	S / SOMC	G4Q / S3S4	1	0	0	0	0
Jefferson	Terrestrial Snails	<i>Webbhelix multilineata</i>	Striped Whitellip	T /	G5 / S1S2	1	0	0	0	0
Jefferson	Freshwater Mussels	<i>Alasmidonta marginata</i>	Elktoe	T / SOMC	G4 / S2	0	1	0	0	0
Jefferson	Freshwater Mussels	<i>Cumberlandia monodonta</i>	Spectaclecase	E / C	G3 / S1	0	0	0	1	0
Jefferson	Freshwater Mussels	<i>Cyprogenia stegaria</i>	Fanshell	E / LE	G1Q / S1	0	0	0	1	0
Jefferson	Freshwater Mussels	<i>Epioblasma triquetra</i>	Snuffbox	E / SOMC	G3 / S1	0	0	0	1	0
Jefferson	Freshwater Mussels	<i>Fusconaia subrotunda</i>	Longsolid	S /	G3 / S3	0	1	0	0	0
Jefferson	Freshwater Mussels	<i>Hemistena lata</i>	Cracking Pearlmussel	X / LE	G1 / SX	0	0	0	1	0
Jefferson	Freshwater Mussels	<i>Lampsilis abrupta</i>	Pink Mucket	E / LE	G2 / S1	0	1	0	0	0
Jefferson	Freshwater Mussels	<i>Obovaria retusa</i>	Ring Pink	E / LE	G1 / S1	0	0	0	1	0
Jefferson	Freshwater Mussels	<i>Plethobasus cooperianus</i>	Orangefoot Pimpleback	E / LE	G1 / S1	0	0	0	1	0
Jefferson	Freshwater Mussels	<i>Plethobasus cyphus</i>	Sheepnose	E / C	G3 / S1	1	0	0	0	0
Jefferson	Freshwater Mussels	<i>Pleurobema clava</i>	Clubshell	E / LE	G2 / S1	0	1	0	0	0
Jefferson	Freshwater Mussels	<i>Pleurobema rubrum</i>	Pyramid Pigtoe	E / SOMC	G2G3 / S1	0	0	0	1	0
Jefferson	Freshwater Mussels	<i>Potamilus capax</i>	Fat Pocketbook	E / LE	G1G2 / S1	0	1	0	0	0
Jefferson	Freshwater Mussels	<i>Quadrula cylindrica cylindrica</i>	Rabbitsfoot	T / C	G3G4T3 / S2	0	0	0	1	0
Jefferson	Freshwater Mussels	<i>Simpsonaias ambigua</i>	Salamander Mussel	T / SOMC	G3 / S2S3	1	1	0	0	0
Jefferson	Freshwater Mussels	<i>Villosa lienosa</i>	Little Spectaclecase	S /	G5 / S3S4	0	1	0	0	0
Jefferson	Freshwater Mussels	<i>Gammarus bousfieldi</i>	Bousfield's Amphipod	E / SOMC	G1 / S1	0	1	0	0	0
Jefferson	Crustaceans	<i>Orconectes jeffersoni</i>	Louisville Crayfish	E / SOMC	G1 / S1	2	1	0	0	0
Jefferson	Crustaceans	<i>Nicrophorus americanus</i>	American Burying Beetle	X / LE	G2G3 / SX	0	0	0	1	0
Jefferson	Insects	<i>Pseudanophthalmus troglodytes</i>	Louisville Cave Beetle	T / C	G1 / S1	1	1	0	0	0
Jefferson	Insects	<i>Satyrus favonius ontario</i>	Northern Hairstreak	S /	G4T4 / S2	0	0	1	0	0
Jefferson	Insects	<i>Speyeria idalia</i>	Regal Fritillary	H / SOMC	G3 / SH	0	1	0	0	0
Jefferson	Fishes	<i>Acipenser fulvescens</i>	Lake Sturgeon	E / SOMC	G3G4 / S1	0	1	0	0	0
Jefferson	Fishes	<i>Alosa alabamae</i>	Alabama Shad	E / SOMC	G3 / S1	0	1	0	0	0
Jefferson	Fishes	<i>Atractosteus spatula</i>	Alligator Gar	E / SOMC	G3G4 / S1	0	1	0	0	0
Jefferson	Fishes	<i>Ictiobus niger</i>	Black Buffalo	S /	G5 / S3	0	1	0	0	0
Jefferson	Fishes	<i>Lota lota</i>	Burbot	S /	G5 / S2	1	1	0	0	0
Jefferson	Fishes	<i>Noturus stigmosus</i>	Northern Madtom	S / SOMC	G3 / S2S3	1	0	0	0	0
Jefferson	Fishes	<i>Percopsis omiscomaycus</i>	Trout-perch	S / SOMC	G5 / S3	0	1	0	0	0

County Report of Endangered, Threatened, and Special Concern Plants, Animals, and Natural Communities of Kentucky
Kentucky State Nature Preserves Commission

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County	Taxonomic Group	Scientific name	Common name	Statuses	Ranks	# of Occurrences				
						E	H	F	X	U
Jefferson	Reptiles	<i>Apalone mutica mutica</i>	Midland Smooth Softshell	S /	G5T5 / S3	1	0	0	0	0
Jefferson	Reptiles	<i>Clonophis kirtlandii</i>	Kirtland's Snake	T / SOMC	G2 / S2	19	1	0	0	1
Jefferson	Reptiles	<i>Nerodia erythrogaster neglecta</i>	Copperbelly Water Snake	S / SOMC	G5T3 / S3	0	1	0	0	0
Jefferson	Reptiles	<i>Ophisaurus attenuatus longicaudus</i>	Eastern Slender Glass Lizard	T /	G5T5 / S2	0	1	0	0	0
Jefferson	Breeding Birds	<i>Accipiter striatus</i>	Sharp-shinned Hawk	S /	G5 / S3B, S4N	1	0	0	0	0
Jefferson	Breeding Birds	<i>Actitis macularius</i>	Spotted Sandpiper	E /	G5 / S1B	1	0	0	0	0
Jefferson	Breeding Birds	<i>Aimophila aestivalis</i>	Bachman's Sparrow	E / SOMC	G3 / S1B	0	0	0	3	0
Jefferson	Breeding Birds	<i>Ammodramus henslowii</i>	Henslow's Sparrow	S / SOMC	G4 / S3B	2	0	0	0	0
Jefferson	Breeding Birds	<i>Anas discors</i>	Blue-winged Teal	T /	G5 / S1S2B	0	1	0	1	0
Jefferson	Breeding Birds	<i>Ardea alba</i>	Great Egret	E /	G5 / S1B	1	0	0	0	0
Jefferson	Breeding Birds	<i>Botaurus lentiginosus</i>	American Bittern	H /	G4 / SHB	0	0	0	1	0
Jefferson	Breeding Birds	<i>Bubulcus ibis</i>	Cattle Egret	S /	G5 / S1S2B	0	0	0	1	0
Jefferson	Breeding Birds	<i>Chondestes grammacus</i>	Lark Sparrow	T /	G5 / S2S3B	0	1	0	0	0
Jefferson	Breeding Birds	<i>Cistothorus platensis</i>	Sedge Wren	S /	G5 / S3B	1	0	0	0	0
Jefferson	Breeding Birds	<i>Egretta caerulea</i>	Little Blue Heron	E /	G5 / S1B	0	0	0	1	0
Jefferson	Breeding Birds	<i>Falco peregrinus</i>	Peregrine Falcon	E / SOMC	G4 / S1B	3	0	0	0	0
Jefferson	Breeding Birds	<i>Ixobrychus exilis</i>	Least Bittern	T /	G5 / S1S2B	0	0	0	1	0
Jefferson	Breeding Birds	<i>Lophodytes cucullatus</i>	Hooded Merganser	T /	G5 / S1S2B, S3S4N	1	0	0	0	0
Jefferson	Breeding Birds	<i>Nyctanassa violacea</i>	Yellow-crowned Night-heron	T /	G5 / S2B	2	0	0	3	0
Jefferson	Breeding Birds	<i>Nycticorax nycticorax</i>	Black-crowned Night-heron	T /	G5 / S1S2B	1	0	0	4	0
Jefferson	Breeding Birds	<i>Pandion haliaetus</i>	Osprey	T /	G5 / S2B	1	0	0	0	0
Jefferson	Breeding Birds	<i>Passerculus sandwichensis</i>	Savannah Sparrow	S /	G5 / S2S3B, S2S3N	1	1	0	0	0
Jefferson	Breeding Birds	<i>Phalacrocorax auritus</i>	Double-crested Cormorant	E /	G5 / S1B	1	0	0	0	0
Jefferson	Breeding Birds	<i>Podilymbus podiceps</i>	Pied-billed Grebe	E /	G5 / S1B, S4N	0	0	0	1	0
Jefferson	Breeding Birds	<i>Rallus elegans</i>	King Rail	E /	G4 / S1B	0	1	0	1	0
Jefferson	Breeding Birds	<i>Riparia riparia</i>	Bank Swallow	S /	G5 / S3B	0	0	0	1	0
Jefferson	Breeding Birds	<i>Sternula antillarum athalassos</i>	Interior Least Tern	E / LE	G4T2Q / S2B	0	1	0	0	0
Jefferson	Breeding Birds	<i>Thryomanes bewickii</i>	Bewick's Wren	S / SOMC	G5 / S3B	0	1	0	0	0
Jefferson	Breeding Birds	<i>Tyto alba</i>	Barn Owl	S /	G5 / S3	2	0	0	0	0
Jefferson	Mammals	<i>Myotis grisescens</i>	Gray Myotis	T / LE	G3 / S2	1	0	0	0	0
Jefferson	Mammals	<i>Myotis sodalis</i>	Indiana Bat	E / LE	G2 / S1S2	3	0	0	0	0
Jefferson	Mammals	<i>Nycticeius humeralis</i>	Evening Bat	S /	G5 / S3	1	0	0	0	0
Jefferson	Communities	Deep soil mesophytic forest		/	GNR / S3S4	1	0	0	0	0
Jefferson County Total:						72	59	3	32	1
Jessamine	Vascular Plants	<i>Deschampsia cespitosa</i>	Tufted Hairgrass	E /	G5 / S1S2	2	0	0	0	0
Jessamine	Vascular Plants	<i>Elymus svensonii</i>	Svenson's Wildrye	T / SOMC	G3 / S2S3	7	0	0	0	0
Jessamine	Vascular Plants	<i>Lesquerella globosa</i>	Globe Bladderpod	E / C	G2 / S1	1	0	2	1	0

APPENDIX B

KY EPPC Hazardous Waste Activities

AL_ID	AL_NAME	X_COORD	Y_COORD	USER_GROUP	ALT_AI_ID
53848	Wal-mart Supercenter	-85.585000000000	38.300000000000	EPA ID Number (RCRA)	KYD981852650
48172	South Central Bell	-85.558518000000	38.292496000000	EPA ID Number (RCRA)	KYD981855059
47850	Bob Smith Chevrolet Inc	-85.557500000000	38.293611000000	EPA ID Number (RCRA)	kyr000033753
49540	SMI Collision Inc	-85.539268000000	38.299870000000	EPA ID Number (RCRA)	KYR000006700
2068	Hite Creek WWTP	-85.552522200000	38.323333000000	EPA ID Number (RCRA)	KYD985116508
2039	Fontaine Modification Co	-85.538889000000	38.299444000000	EPA ID Number (RCRA)	

KY EPPC Water Resources Activities

AL_ID	AL_NAME	X_COORD	Y_COORD	USER_GROUP	ALT_AI_ID
47034	Worthington Place Lot 97 Residence	-85.553455000000	38.318444000000	DOWWRB- Floodplain Management	13677A
2076	Indian Springs Inc	-85.552275000000	38.294231000000	Water Withdrawal Permit Number	1296
8443	Blacketer Land Co	-85.543889000000	38.288889000000	DOWWRB- Floodplain Management	9717
12101	Ball Homes Inc	-85.554167000000	38.319722000000	DOWWRB- Floodplain Management	11912
8493	Paragon Homes Inc	-85.553333000000	38.313333000000	DOWWRB- Floodplain Management	9682
2162	Timberlake WWTP	-85.613056000000	38.331944000000	DOWWRB- Floodplain Management	18198
47036	Worthington Place Lot 96 Residence	-85.553459000000	38.318429000000	DOWWRB- Floodplain Management	13678A
49226	P G Apartments LLC	-85.538721000000	38.300178000000	DOWWRB- Floodplain Management	13793A
70639	Beech Spring Farm Subd	-85.611111000000	38.306389000000	DOWWRB- Floodplain Management	18157
46537	Old Brownsboro Crossing	-85.570356000000	38.316422000000	DOWWRB- Floodplain Management	13716A
5581	Glen Oaks Golf Course	-85.545833330000	38.333333330000	Water Withdrawal Permit Number	1570
8443	Blacketer Land Co	-85.543889000000	38.288889000000	DOWWRB- Floodplain Management	9838
8493	Paragon Homes Inc	-85.553333000000	38.313333000000	DOWWRB- Floodplain Management	9683
76619	Ghosh S & Martha Zady Residence	-85.551205000000	38.308242000000	DOWWRB- Floodplain Management	15856A
46727	Worthington Place Lot 99 Residence	-85.553467000000	38.318488000000	DOWWRB- Floodplain Management	13535A
83789	Norton Commons	-85.570816000000	38.321329000000	DOWWRB- Floodplain Management	17857
7278	Springhurst Subd	-85.569443000000	38.299721000000	DOWWRB- Dam Safety and Floodplain Comp.	1139
8551	Galaxy Builders Inc	-85.555556000000	38.315556000000	DOWWRB- Floodplain Management	9508
12101	Ball Homes Inc	-85.554167000000	38.319722000000	DOWWRB- Floodplain Management	15037A
8493	Paragon Homes Inc	-85.553333000000	38.313333000000	DOWWRB- Floodplain Management	9487
8493	Paragon Homes Inc	-85.553333000000	38.313333000000	DOWWRB- Floodplain Management	9704
8493	Paragon Homes Inc	-85.553333000000	38.313333000000	DOWWRB- Floodplain Management	9486
8521	Donald R Carricuto Builder Inc	-85.554722000000	38.317500000000	DOWWRB- Floodplain Management	9916
2039	Fontaine Modification Co	-85.538889000000	38.299444000000	DOWWRB- Floodplain Management	11180
8550	Richard Green Residence	-85.554726000000	38.317500000000	DOWWRB- Floodplain Management	9924
8493	Paragon Homes Inc	-85.553333000000	38.313333000000	DOWWRB- Floodplain Management	9681
83789	Norton Commons	-85.570816000000	38.321329000000	DOWWRB- Floodplain Management	1177
33680	J Robert Westerman Residence	-85.590713000000	38.312986000000	DOWWRB- Dam Safety and Floodplain Comp.	13226A
8521	Donald R Carricuto Builder Inc	-85.554722000000	38.317500000000	DOWWRB- Floodplain Management	9915
12101	Ball Homes Inc	-85.554167000000	38.319722000000	DOWWRB- Floodplain Management	14670A
8493	Paragon Homes Inc	-85.553333000000	38.313333000000	DOWWRB- Floodplain Management	9680
8493	Paragon Homes Inc	-85.553333000000	38.313333000000	DOWWRB- Floodplain Management	9654
8378	Harrods Landing Condominiums	-85.620833000000	38.333611000000	DOWWRB- Floodplain Management	10400
2162	Timberlake WWTP	-85.613056000000	38.331944000000	DOWWRB- Floodplain Management	20092A
46603	Seminary Woods Residential Condominium	-85.618889000000	38.291111000000	DOWWRB- Floodplain Management	13720A
34324	CFAC LLC	-85.562160000000	38.297980000000	DOWWRB- Floodplain Management	12078A
33324	Lee & Bonnie Otto Residence	-85.604837000000	38.312031000000	DOWWRB- Floodplain Management	33324
70639	Beech Spring Farm Subd	-85.611111000000	38.306389000000	DOWWRB- Floodplain Management	19873A
83789	Norton Commons	-85.570816000000	38.321329000000	DOWWRB- Floodplain Management	18769A

KY EPPC Waste Water Activities

AL_ID	AL_NAME	X_COORD	Y_COORD	USER_GROUP	ALT_AI_ID
46558	Valencia at the Summit	-85.5741760000	38.3011110000	KPDES Number	KYR105523
46537	Old Brownsboro Crossing	-85.5703560000	38.3164220000	KPDES Number	KYR105488
46537	Old Brownsboro Crossing	-85.5703560000	38.3164220000	KPDES Number	KYR105615
5407	Craigs Creek Subd	-85.5504110000	38.3147750000	KPDES Number	KYR104898
5407	Craigs Creek Subd	-85.5504110000	38.3147750000	KPDES Number	KYR101902
5450	Olympia Park Plaza Building	-85.5805560000	38.3083330000	KPDES Number	KYR105460
7278	Springhurst Subd	-85.5694430000	38.2997210000	KPDES Number	KYR101378
7278	Springhurst Subd	-85.5694430000	38.2997210000	KPDES Number	KYR101360
7278	Springhurst Subd	-85.5694430000	38.2997210000	KPDES Number	KYR101354
5813	Springdale Development	-85.5774400000	38.3051700000	KPDES Number	KYR104339
2068	Hite Creek WWTP	-85.5522220000	38.3233330000	KPDES Number	KY0022420
70639	Beech Spring Farm Subd	-85.6111110000	38.3063890000	KPDES Number	KYR109997
83481	Longhorn Steakhouse	-85.5720170000	38.3113960000	KPDES Number	KYR108278
11495	Norton Medical Center at Old Brownsboro	-85.5741070000	38.3133010000	KPDES Number	KYR106511
11495	Norton Medical Center at Old Brownsboro	-85.5741070000	38.3133010000	KPDES Number	KYR109389
71500	Taylor Building Corp Model Homes	-85.5425000000	38.3291670000	KPDES Number	KYR106637
5439	The Summit - Brice	-85.5641670000	38.3144440000	KPDES Number	KYR104549
7278	Springhurst Subd	-85.5694430000	38.2997210000	KPDES Number	KYR101564
5468	Strange Residence	-85.6100000000	38.3250000000	KPDES Number	KYG401251
5474	Dallas & Mavis Forwarding Co	-85.5508330000	38.3022220000	KPDES Number	KYR000698
3350	Liters Quarry Inc - Rock Springs Mine	-85.5372220000	38.3291670000	KPDES Number	KYR10E257
80574	Olive Garden	-85.5712420000	38.3111080000	KPDES Number	KYR108024
81502	Chamberlain Pointe	-85.5700000000	38.3122220000	KPDES Number	KYR108315
60806	Tom Sawyer State Park	-85.5547220000	38.2850000000	KPDES Number	KYR108131
83789	Norton Commons	-85.5708160000	38.3213290000	KPDES Number	KYR107438
83789	Norton Commons	-85.5708160000	38.3213290000	KPDES Number	KYR107687
46537	Old Brownsboro Crossing	-85.5703560000	38.3164220000	KPDES Number	KYR106423
7278	Springhurst Subd	-85.5694430000	38.2997210000	KPDES Number	KYR104099
5813	Springdale Development	-85.5774400000	38.3051700000	KPDES Number	KYR104277
35466	Springdale Baptist Church	-85.5891610000	38.3139830000	KPDES Number	KYR105597
43839	Spring Farm Place Subd	-85.6050000000	38.3227780000	KPDES Number	KYR108932
70639	Beech Spring Farm Subd	-85.6111110000	38.3063890000	KPDES Number	KYR107782
80576	PNC Bank	-85.5712420000	38.3111080000	KPDES Number	KYR108023
81744	KY 1447 - Jefferson Co	-85.6000000000	38.2833330000	KPDES Number	KYR107396
2095	Fontaine Residence	-85.5922220000	38.3266670000	KPDES Number	KYG400162
83789	Norton Commons	-85.5708160000	38.3213290000	KPDES Number	KYR106489
83789	Norton Commons	-85.5708160000	38.3213290000	KPDES Number	KYR109656
7278	Springhurst Subd	-85.5694430000	38.2997210000	KPDES Number	KYR104098
5339	Springhurst Condos	-85.5635200000	38.3014900000	KPDES Number	KYR104259
46603	Seminary Woods Residential Condominium	-85.6188890000	38.2911110000	KPDES Number	KYR105706
75545	Commonwealth Bank & Trust	-85.5652780000	38.3144440000	KPDES Number	KYR109206
80574	Olive Garden	-85.5712420000	38.3111080000	KPDES Number	KYR108036
7278	Springhurst Subd	-85.5694430000	38.2997210000	KPDES Number	KYR101863
5313	Champion Farms	-85.5700000000	38.3052780000	KPDES Number	KYR104165
46603	Seminary Woods Residential Condominium	-85.6188890000	38.2911110000	KPDES Number	KYR105869
70639	Beech Spring Farm Subd	-85.6111110000	38.3063890000	KPDES Number	KYR108931
80240	Harrods Glen Subd	-85.6066670000	38.3275000000	KPDES Number	KYR108200

APPENDIX B

APPENDIX B

83789 Norton Commons	-85.570816000000	38.321329000000	KPDES Number	KYR104950
83789 Norton Commons	-85.570816000000	38.321329000000	KPDES Number	KYR100113
5573 Bay Colony Subd	-85.560100000000	38.309200000000	KPDES Number	KYR101371
5407 Craigs Creek Subd	-85.550411000000	38.314775000000	KPDES Number	KYR104168
7278 Springhurst Subd	-85.569443000000	38.299721000000	KPDES Number	KYR101861
7278 Springhurst Subd	-85.569443000000	38.299721000000	KPDES Number	KYR101573
7278 Springhurst Subd	-85.569443000000	38.299721000000	KPDES Number	KYR104154
5319 Pinnacle Office Building	-85.575278000000	38.304167000000	KPDES Number	08049042
10958 Ronnie & Susan Butler Residence	-85.575278000000	38.287222000000	KNDOP Number	KYR106718
70639 Beech Spring Farm Subd	-85.611111000000	38.306389000000	KPDES Number	KYR108356
82881 Arbys Restaurant	-85.572640000000	38.312649000000	KPDES Number	KYR108244
83481 Longhorn Steakhouse	-85.572017000000	38.311396000000	KPDES Number	KYR109687
96832 The Villas at Rock Springs	-85.538889000000	38.319167000000	KPDES Number	KYR107346
77876 Costco Wholesale	-85.571944000000	38.316389000000	KPDES Number	KYG840054
3350 Liters Quarry Inc - Rock Springs Mine	-85.577222000000	38.329167000000	KPDES Number	KYR101469
2144 Meijer Store 164	-85.558333000000	38.298889000000	KPDES Number	KYR105729
2068 Hite Creek WWTP	-85.552222000000	38.323333000000	KPDES Number	KYG400126
1981 George Frazier Residence	-85.591111000000	38.325000000000	KPDES Number	KYG402071
80240 Harrods Glen Subd	-85.606667000000	38.327500000000	KPDES Number	KYR101478
99366 Vadim B Kaplan Residence	-85.596565000000	38.311773000000	KPDES Number	KYR101294
5407 Craigs Creek Subd	-85.550411000000	38.314775000000	KPDES Number	KYR104484
5407 Craigs Creek Subd	-85.550411000000	38.314775000000	KPDES Number	KYR109944
5439 The Summit - Brice	-85.564167000000	38.314444000000	KPDES Number	KYR108070
70639 Beech Spring Farm Subd	-85.611111000000	38.306389000000	KPDES Number	KYR107397
79646 Ivy Ridge Patio Homes Subd	-85.613611000000	38.309722000000	KPDES Number	KYR106906
81744 KY 1447 - Jefferson Co	-85.600000000000	38.283333000000	KPDES Number	
83789 Norton Commons	-85.570816000000	38.321329000000	KPDES Number	
KY EPCC UST Activities				ALT_AI_ID
AI_ID	AI_NAME	X_COORD	Y_COORD	USER_GROUP
58769 Anchor Oil Co	-85.545940000000	38.326130000000	UST ID Number	3598093
60466 Kaczmarek Properties LLC	-85.558111000000	38.293222000000	UST ID Number	2685056
60629 Speedway SuperAmerica 9373	-85.574611000000	38.306750000000	UST ID Number	2008056
48172 South Central Bell	-85.558518000000	38.292496000000	UST ID Number	3216056
60489 Thornton Oil No 57	-85.559722000000	38.292778000000	UST ID Number	1059056
60466 Kaczmarek Properties LLC	-85.558111000000	38.293222000000	UST ID Number	
60652 Pick & Pump No 146	-85.568486000000	38.314892000000	UST ID Number	1129056
60806 Tom Sawyer State Park	-85.554722000000	38.285000000000	UST ID Number	1264056
5474 Dallas & Mavis Forwarding Co	-85.550833000000	38.302222000000	UST ID Number	2101056
2144 Meijer Store 164	-85.558333000000	38.298889000000	UST ID Number	2051056
2068 Hite Creek WWTP	-85.552222000000	38.323333000000	UST ID Number	20022940
47850 Bob Smith Chevrolet Inc	-85.557500000000	38.293611000000	UST ID Number	20041533
64555 Evergreen Lawns	-85.545414000000	38.325416000000	UST ID Number	4619056
45592 Cardinal Treatment Center Alternative Scl	-85.554348000000	38.286165000000	UST ID Number	522056
60556 Saint Andrews Sunoco	-85.579444400000	38.309722200000	UST ID Number	5689056
60853 Dairy Mart No 191	-85.601489000000	38.296018000000	UST ID Number	2283056
65632 Worthington Vol Fire Dept	-85.593384000000	38.300011000000	UST ID Number	8598056
60735 Jack T Irwin	-85.561430000000	38.315661000000	UST ID Number	4272056

APPENDIX C



Environmental Justice Geographic Assessment Tool

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Statistics represent residential population, by Census Block Group, within a **.5** mile buffer around feature of interest

Enter a new buffer value (max. 10 miles)

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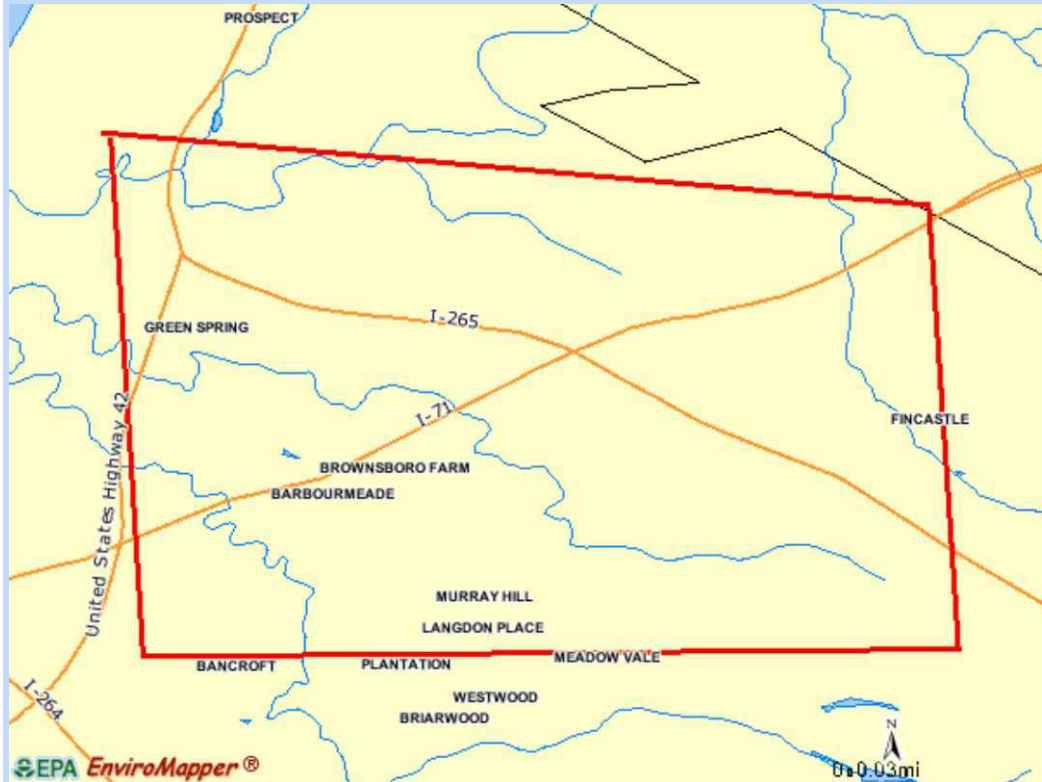
Social

Economic

Health

Environmental

Map





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Statistics represent residential population, by Census Block Group, within a **.5** mile buffer around
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Income

Income Breakdown	Households (%)
Less than \$15,000:	481 (5.4%)
\$15,000 - \$25,000:	645 (7.2%)
\$25,000 - \$50,000:	2055 (22.9%)
\$50,000 - \$75,000:	1919 (21.4%)
Greater than \$75,000:	3879 (43.2%)

Tenure

Tenure Breakdown	Households (%)
Occupied Housing Units:	8977 (100.0%)
Owner Occupied:	6993 (77.9%)
Renter Occupied	1984 (22.1%)



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Statistics represent residential population, by Census Block Group, within a **.5** mile buffer around feature of interest

Enter a new buffer value (max. 10 miles)

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Social

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County and State Comparison

Overview

Total Persons:	22634	Land Area:	96.5%	Households in Area:	8977
Population Density:	1520.85 /sq mi	Water Area:	3.5%	Housing Units in Area:	9487
Percent Minority:	14.3%	Persons Below Poverty Level:	742 (3.3%)	Households on Public Assistance:	62
Percent Urban:	99%	Housing Units Built <1970:	26%	Housing Units Built <1950:	3%

Race and Age*

Race Breakdown	Persons (%)	Age Breakdown	Persons(%)
White:	19549 (86.4%)	Child 5 years or less:	1843 (8.1%)
African-American:	1963 (8.7%)	Minors 17 years and younger:	5751 (25.4%)
Hispanic-Origin:	329 (1.5%)	Adults 18 years and older:	16882 (74.6%)
Asian/Pacific Islander:	561 (2.5%)	Seniors 65 years and older:	2777 (12.3%)
American Indian:	55 (0.2%)	This space intentionally left blank	
Other Race:	127 (0.6%)		
Multiracial:	379 (1.7%)		
(* Columns that add up to 100% are highlighted)			

Gender

Gender Breakdown	Persons (%)
Males:	10908 (48.2%)
Females:	11726 (51.8%)

Education

Education Level (Persons 25 & older)	Persons (%)
Less than 9th grade:	222 (1.5%)
9th -12th grade:	604 (4.1%)
High School Diploma:	2650 (18.2%)
Some College/2 yr:	3481 (23.9%)
B.S./B.A. or more:	7615 (52.3%)

[Language](#)

Ability to Speak English	Persons (%)
Population Age 5 and Over:	21137
Speak only English:	19773 (93.5%)
Non-English at Home:	1364 (6.5%)
Speak English very well:	883 (4.2%)
Speak English well:	285 (1.3%)
Speak English not well:	160 (0.8%)
Speak English not at all:	35 (0.2%)
Speak English less than well:	196 (0.9%)

<u>Language Spoken</u>	
<u>Language Spoken</u>	Persons (%)
Speak only English:	19140 (87.9%)
Spanish or Spanish Creole:	457 (2.1%)
French (incl. Patois, Cajun):	111 (0.5%)
French Creole:	2 (0.0%)
Portuguese or Portuguese Creole:	8 (0.0%)
German:	93 (0.4%)
Yiddish:	2 (0.0%)
Other West Germanic Languages:	15 (0.1%)
Scandinavian Languages:	12 (0.1%)
Greek:	10 (0.0%)
Russian:	37 (0.2%)
Polish:	24 (0.1%)
Serbo-Croatian:	21 (0.1%)
Other Slavic Languages:	1 (0.0%)
Armenian:	4 (0.0%)
Persian:	30 (0.1%)
Gujarathi:	5 (0.0%)
Hindi:	53 (0.2%)
Urdu:	37 (0.2%)
Other Indic Languages:	20 (0.1%)
Other Indo-European Lanugages:	20 (0.1%)
Chinese:	108 (0.5%)
Japanese:	13 (0.1%)
Korean:	27 (0.1%)
Mon-Khmer, Cambodian:	0 (0.0%)
Vietnamese:	13 (0.1%)
Other Asian Languages:	35 (0.2%)
Tagalog:	62 (0.3%)
Other Pacific Island Languages:	11 (0.0%)
Navajo:	0 (0.0%)
Hungarian:	2 (0.0%)
Arabic:	43 (0.2%)
Hebrew:	4 (0.0%)
African Languages:	32 (0.1%)
Non-English Speaking:	1321 (6.1%)

Place of Birth for the Foreign-Born

Country	Persons
Foreign-Born Population:	1091
Europe:	283 (26%)
Asia:	434 (39.8%)
Africa:	74 (6.7%)
Oceania:	13 (1.2%)
Americas:	287 (26.3%)
United Kingdom:	97 (8.9%)
Ireland:	11 (1%)
Sweden:	1 (.1%)
Other Northern Europe:	3 (.2%)
Austria:	5 (.5%)
France:	9 (.8%)
Germany:	38 (3.5%)
Netherlands:	15 (1.4%)
Other Western Europe:	10 (.9%)
Greece:	9 (.8%)
Italy:	5 (.5%)
Portugal:	0 (0%)
Spain:	1 (.1%)
Czechoslovakia:	2 (.2%)
Hungary:	1 (0%)
Poland:	16 (1.5%)
Romania:	4 (.3%)
Belarus:	4 (.4%)
Russia:	24 (2.2%)
Ukraine:	0 (0%)
Bosnia and Herzegovina:	19 (1.8%)
Yugoslavia:	2 (.1%)
Other Eastern Europe:	7 (.7%)
Mainland China:	83 (7.6%)
Hong Kong:	5 (.5%)
Taiwan:	16 (1.5%)
Japan:	12 (1.1%)
Korea:	35 (3.2%)
India:	132 (12.1%)
Iran:	32 (3%)
Pakistan:	11 (1%)
Other Central Eastern Asia:	2 (.2%)
Cambodia:	0 (0%)
Indonesia:	0 (0%)
Philippines:	60 (5.5%)
Vietnam:	12 (1.1%)
Other South Eastern Asia:	7 (.6%)
Iraq:	2 (.2%)
Israel:	6 (.6%)
Lebanon:	2 (.2%)
Syria:	6 (.6%)
Turkey:	5 (.5%)
Other Western Asia:	3 (.3%)
Ethiopia:	13 (1.2%)
Other Eastern Africa:	16 (1.5%)
Egypt:	1 (.1%)
Other Northern Africa:	2 (.2%)
South Africa:	7 (.6%)
Nigeria:	3 (.3%)
Other Western Africa:	28 (2.6%)

Australia:	13 (1.2%)
Other Australian and New Zealand Subregion:	0 (0%)
Barbados:	4 (.4%)
Cuba:	11 (1%)
Haiti:	1 (.1%)
Jamaica:	9 (.8%)
Trinidad Tobago:	8 (.7%)
Other Caribbean:	5 (.5%)
Mexico:	127 (11.7%)
Costa Rica:	0 (0%)
El Salvador:	1 (.1%)
Guatemala:	3 (.3%)
Honduras:	3 (.3%)
Nicaragua:	3 (.3%)
Panama:	1 (.1%)
Other Central America:	1 (.1%)
Argentina:	4 (.3%)
Bolivia:	0 (0%)
Brazil:	0 (0%)
Chile:	0 (0%)
Colombia:	19 (1.7%)
Ecuador:	7 (.7%)
Guyana:	5 (.4%)
Venezuela:	7 (.6%)
Other South America:	0 (0%)
Canada:	62 (5.7%)
Other North America:	3 (.3%)