FLOOD INSURANCE STUDY

FEDERAL EMERGENCY MANAGEMENT AGENCY

VOLUME 1 OF 5

LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT, KENTUCKY

(ALL JURISDICTIONS)

COMMUNITY NAME	COMMUNITY NUMBER
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT, KENTUCKY	210067

FEMA

EFFECTIVE: PRELIMINARY 2/26/2016

FLOOD INSURANCE STUDY NUMBER
210067V001C

Version Number 2.3.3.2

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Published Separately

Flood Insurance Rate Map (FIRM)

FLOOD INSURANCE STUDY REPORT
FAYETTE COUNTY, KENTUCKY

SECTION 1.0 – INTRODUCTION

1.1 The National Flood Insurance Program

The National Flood Insurance Program (NFIP) is a voluntary Federal program that enables property owners in participating communities to purchase insurance protection against losses from flooding. This insurance is designed to provide an insurance alternative to disaster assistance to meet the escalating costs of repairing damage to buildings and their contents caused by floods.

For decades, the national response to flood disasters was generally limited to constructing flood-control works such as dams, levees, sea-walls, and the like, and providing disaster relief to flood victims. This approach did not reduce losses nor did it discourage unwise development. In some instances, it may have actually encouraged additional development. To compound the problem, the public generally could not buy flood coverage from insurance companies, and building techniques to reduce flood damage were often overlooked.

In the face of mounting flood losses and escalating costs of disaster relief to the general taxpayers, the U.S. Congress created the NFIP. The intent was to reduce future flood damage through community floodplain management ordinances, and provide protection for property owners against potential losses through an insurance mechanism that requires a premium to be paid for the protection.

The U.S. Congress established the NFIP on August 1, 1968, with the passage of the National Flood Insurance Act of 1968. The NFIP was broadened and modified with the passage of the Flood Disaster Protection Act of 1973 and other legislative measures. It was further modified by the National Flood Insurance Reform Act of 1994 and the Flood Insurance Reform Act of 2004. The NFIP is administered by the Federal Emergency Management Agency (FEMA), which is a component of the Department of Homeland Security (DHS).

Participation in the NFIP is based on an agreement between local communities and the Federal Government. If a community adopts and enforces floodplain management regulations to reduce future flood risks to new construction and substantially improved structures in Special Flood Hazard Areas (SFHAs), the Federal Government will make flood insurance available within the community as a financial protection against flood losses. The community's floodplain management regulations must meet or exceed criteria established in accordance with Title 44 Code of Federal Regulations (CFR) Part 60.3, *Criteria for land Management and Use*.

SFHAs are delineated on the community's Flood Insurance Rate Maps (FIRMs). Under the NFIP, buildings that were built before the flood hazard was identified on the community's FIRMs are generally referred to as "Pre-FIRM" buildings. When the NFIP was created, the U.S. Congress recognized that insurance for Pre-FIRM buildings would be prohibitively expensive if the premiums were not subsidized by the Federal Government. Congress also recognized that most of these floodprone buildings were built by individuals who did not have sufficient knowledge of the flood hazard to make informed decisions. The NFIP requires that full actuarial rates reflecting the complete flood risk be charged on all buildings constructed or substantially improved on or after

the effective date of the initial FIRM for the community or after December 31, 1974, whichever is later. These buildings are generally referred to as "Post-FIRM" buildings.

1.2 Purpose of this Flood Insurance Study Report

This Flood Insurance Study (FIS) report revises and updates information on the existence and severity of flood hazards for the study area. The studies described in this report developed flood hazard data that will be used to establish actuarial flood insurance rates and to assist communities in efforts to implement sound floodplain management.

In some states or communities, floodplain management criteria or regulations may exist that are more restrictive than the minimum Federal requirements. Contact your State NFIP Coordinator to ensure that any higher State standards are included in the community's regulations.

1.3 Jurisdictions Included in the Flood Insurance Study Project

This FIS Report covers the entire geographic area of Fayette County, Kentucky, officially known as the Lexington-Fayette Urban County Government (LFUCG).

The jurisdictions that are included in this project area, along with the Community Identification Number (CID) for each community and the 8-digit Hydrologic Unit Codes (HUC-8) sub-basins affecting each, are shown in Table 1. The Flood Insurance Rate Map (FIRM) panel numbers that affect each community are listed. If the flood hazard data for the community is not included in this FIS Report, the location of that data is identified.

The location of flood hazard data for participating communities in multiple jurisdictions is also indicated in the table.

Jurisdictions that have no identified SFHAs as of the effective date of this study are indicated in the table. Changed conditions in these communities (such as urbanization or annexation) or the availability of new scientific or technical data about flood hazards could make it necessary to determine SFHAs in these jurisdictions in the future.

Table 1: Listing of NFIP Jurisdictions

Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)	If Not Included, Location of Flood Hazard Data
Lexington-Fayette Urban County Government	210067	05100205	2100670015E, 2100670016E, 2100670017E, 2100670018E, 2100670019E, 2100670029E, 2100670035E, 2100670040E, 2100670045E, 2100670053E, 2100670065E, 2100670082E, 2100670084E, 2100670092E, 2100670093E[1], 2100670094E, 2100670101E, 2100670102E, 2100670103E, 2100670104E, 2100670106E, 2100670107E, 2100670108E, 2100670109E, 2100670111E, 2100670112E, 2100670113E, 2100670114E, 2100670116E, 2100670117E, 2100670118E, 2100670119E, 2100670126E, 2100670127E, 2100670128E, 2100670129E, 2100670131E, 2100670132E, 2100670133E, 2100670134E, 2100670136E[1], 2100670137E, 2100670138F, 2100670139E, 2100670141E, 2100670142E, 2100670143E, 2100670144E, 2100670155E, 2100670160E, 2100670165E, 2100670170E, 2100670182E, 2100670201E, 2100670202E, 2100670206E, 2100670207F, 2100670208E, 2100670209F, 2100670226F, 2100670227E, 2100670228F, 2100670229E, 2100670231E, 2100670232E, 2100670233E, 2100670234E, 2100670236E, 2100670237E, 2100670239E, 2100670241E, 2100670242E, 2100670243E, 2100670244E, 2100670251E, 2100670252E, 2100670253E, 2100670254E, 2100670258E, 2100670261E, 2100670262E, 2100670263E, 2100670264E, 2100670277E, 2100670281E, 2100670282E, 2100670301E	

[1]Panel Not Printed

1.4 Considerations for using this Flood Insurance Study Report

The NFIP encourages State and local governments to implement sound floodplain management programs. To assist in this endeavor, each FIS Report provides floodplain data, which may include a combination of the following: 10-, 4-, 2-, 1-, and 0.2-percent annual chance flood elevations (the 1% annual chance flood elevation is also referred to as the Base Flood Elevation (BFE)); delineations of the 1% annual chance and 0.2% annual chance floodplains; and 1% annual chance floodway. This information is presented on the FIRM and/or in many components of the FIS Report, including Flood Profiles, Floodway Data tables, Summary of Non-Coastal Stillwater Elevations tables, and Coastal Transect Parameters tables (not all components may be provided for a specific FIS).

This section presents important considerations for using the information contained in this FIS Report and the FIRM, including changes in format and content. Figures 1, 2, and 3 present information that applies to using the FIRM with the FIS Report.

- Part or all of this FIS Report may be revised and republished at any time. In addition, part of this FIS Report may be revised by a Letter of Map Revision (LOMR), which does not involve republication or redistribution of the FIS Report. Refer to Section 6.5 of this FIS Report for information about the process to revise the FIS Report and/or FIRM.

- It is, therefore, the responsibility of the user to consult with community officials by contacting the community repository to obtain the most current FIS Report components. Communities participating in the NFIP have established repositories of flood hazard data for floodplain management and flood insurance purposes. Community map repository addresses are provided in Table 31, "Map Repositories," within this FIS Report.

- New FIS Reports are frequently developed for multiple communities, such as entire counties. A countywide FIS Report incorporates previous FIS Reports for individual communities and the unincorporated area of the county (if not jurisdictional) into a single document and supersedes those documents for the purposes of the NFIP.

- The initial Countywide FIS Report for Fayette County became effective on September 3, 1992. Refer to Table 28 for information about subsequent revisions to the FIRMs.

- Selected FIRM panels for the community may contain information (such as floodways and cross sections) that was previously shown separately on the corresponding Flood Boundary and Floodway Map panels. In addition, former flood hazard zone designations have been changed as follows:

Old Zone	New Zone
A1 through A30	AE
B	X (shaded)
C	X (unshaded)

- FEMA does not impose floodplain management requirements or special insurance ratings based on Limit of Moderate Wave Action (LiMWA) delineations at this time. The LiMWA represents the approximate landward limit of the 1.5-foot breaking wave. If the LiMWA is shown on the FIRM, it is being provided by FEMA as information only. For communities that do adopt Zone VE building standards in the area defined by the

LiMWA, additional Community Rating System (CRS) credits are available. Refer to Section 2.5.4 for additional information about the LiMWA.

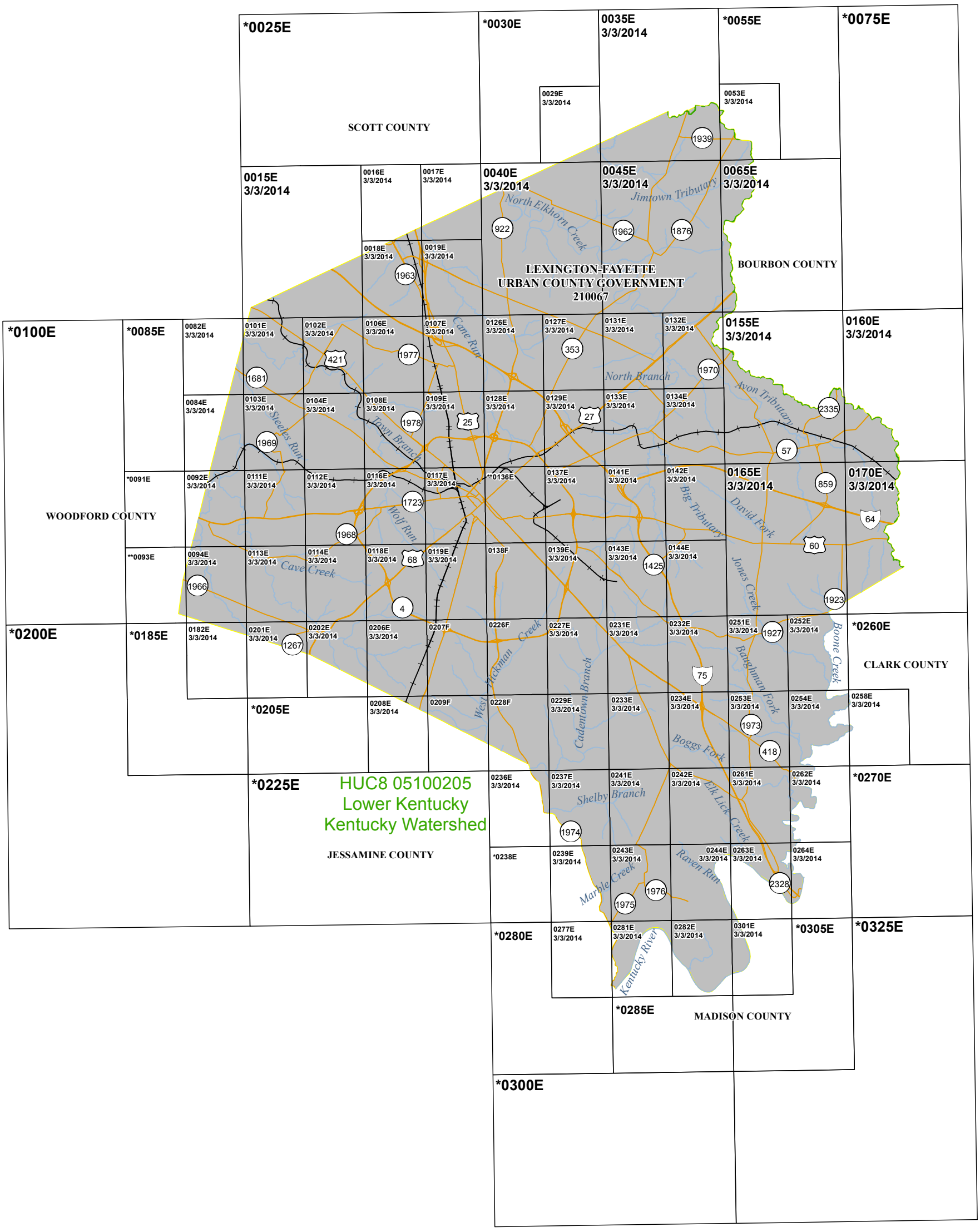
The CRS is a voluntary incentive program that recognizes and encourages community floodplain management activities that exceed the minimum NFIP requirements. Visit the FEMA Web site at http://www.fema.gov or contact your appropriate FEMA Regional Office for more information about this program.

- Previous FIS Reports and FIRMs may have included levees that were accredited as providing protection from the 1% annual chance flood based on the information available and the mapping standards of the NFIP at that time. For FEMA to continue to accredit the identified levees with providing protection from the base flood, the levees must meet the criteria of the Code of Federal Regulations, Title 44, Section 65.10 (44 CFR 65.10), titled "Mapping of Areas Protected by Levee Systems."

  Since the status of levees is subject to change at any time, the user should contact the appropriate agency for the latest information regarding levees presented in Table 9 of this FIS Report. For levees owned or operated by the U.S. Army Corps of Engineers (USACE), information may be obtained from the USACE national levee database. For all other levees, the user is encouraged to contact the appropriate local community.

- FEMA has developed a *Guide to Flood Maps* (FEMA 258) and online tutorials to assist users in accessing the information contained on the FIRM. These include how to read panels and step-by-step instructions to obtain specific information. To obtain this guide and other assistance in using the FIRM, visit the FEMA Web site at http://www.fema.gov.

Figure 1: FIRM Panel Index



1 inch = 16,000 feet 1:192,000

N

0 4,625 9,250 18,500 27,750 37,000 Feet

Map Projection:
State Plane Lambert Conformal Conic,
Kentucky Zone 1600; North American Datum 1983

THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT

HTTP://MSC.FEMA.GOV

SEE FLOOD INSURANCE STUDY FOR ADDITIONAL INFORMATION

*PANEL NOT PRINTED - AREA OUTSIDE COUNTY BOUNDARY
**PANEL NOT PRINTED - NO SPECIAL FLOOD HAZARD AREAS

Highway
Stream Centerline
FIRM Panel
Watershed Boundary
City, Town
County

NATIONAL FLOOD INSURANCE PROGRAM

FLOOD INSURANCE RATE MAP INDEX

LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT, KENTUCKY

PANELS PRINTED:

0015, 0016, 0017, 0018, 0019, 0029, 0035, 0040, 0045, 0053, 0065, 0082, 0084, 0092, 0094, 0101, 0102, 0103, 0104, 0106, 0107, 0108, 0109, 0111, 0112, 0113, 0114, 0116, 0117, 0118, 0119, 0126, 0127, 0128, 0129, 0131, 0132, 0133, 0134, 0137, 0138, 0139, 0141, 0142, 0143, 0144, 0155, 0160, 0165, 0170, 0182, 0201, 0202, 0206, 0207, 0208, 0209, 0226, 0227, 0228, 0229, 0231, 0232, 0233, 0234, 0236, 0237, 0239, 0241, 0242, 0243, 0244, 0251, 0252, 0253, 0254, 0258, 0261, 0262, 0263 0264, 0277, 0281, 0282, 0301

Kentucky UNBRIDLED SPIRIT

FEMA

MAP NUMBER
210067IND0C

MAP REVISED
PRELIMINARY

Figure 2: FIRM Notes to Users

NOTES TO USERS

For information and questions about this map, available products associated with this FIRM including historic versions of this FIRM, how to order products, or the National Flood Insurance Program in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Map Service Center website at http://msc.fema.gov. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website. Users may determine the current map date for each FIRM panel by visiting the FEMA Map Service Center website or by calling the FEMA Map Information eXchange.

Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM Index. These may be ordered directly from the Map Service Center at the number listed above.

For community and countywide map dates, refer to Table 28 in this FIS Report.

To determine if flood insurance is available in the community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

PRELIMINARY FIS REPORT: FEMA maintains information about map features, such as street locations and names, in or near designated flood hazard areas. Requests to revise information in or near designated flood hazard areas may be provided to FEMA during the community review period, at the final Consultation Coordination Officer's meeting, or during the statutory 90-day appeal period. Approved requests for changes will be shown on the final printed FIRM.

The map is for use in administering the NFIP. It may not identify all areas subject to flooding, particularly from local drainage sources of small size. Consult the community map repository to find updated or additional flood hazard information.

BASE FLOOD ELEVATIONS: For more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables within this FIS Report. Use the flood elevation data within the FIS Report in conjunction with the FIRM for construction and/or floodplain management.

Coastal Base Flood Elevations are not applicable to this FIS project.

FLOODWAY INFORMATION: Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the FIS Report for this jurisdiction.

FLOOD CONTROL STRUCTURE INFORMATION: Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 4.3 "Non-Levee Flood Protection Measures" of this FIS Report for information on flood control structures for this jurisdiction.

PROJECTION INFORMATION: The projection used in the preparation of the map was Kentucky State Plane Single Zone. The horizontal datum was North American Datum of 1983 (NAD83). Differences in datum, spheroid, projection or State Plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of the FIRM.

Figure 2: FIRM Notes to Users

ELEVATION DATUM: Flood elevations on the FIRM are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov/ or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

Local vertical monuments may have been used to create the map. To obtain current monument information, please contact the appropriate local community listed in Table 31 of this FIS Report.

BASE MAP INFORMATION: Base map information shown on the FIRM was provided by the U.S. Geological Survey, National Geodetic Survey, National Atlas, Kentucky Transportation Cabinet (KYTC), Kentucky GeoNet, U.S. Army Corps of Engineers, Federal Emergency Management Agency, and the National Agriculture Imagery Program (NAIP). Ortho imagery was provided by NAIP in 2012, has a 1 meter ground resolution. For information about base maps, refer to Section 6.2 “Base Map” in this FIS Report.

The map reflects more detailed and up-to-date stream channel configurations than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables may reflect stream channel distances that differ from what is shown on the map.

Corporate limits shown on the map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after the map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Figure 2: FIRM Notes to Users

NOTES FOR FIRM INDEX

REVISIONS TO INDEX: As new studies are performed and FIRM panels are updated within Fayette County, Kentucky, corresponding revisions to the FIRM Index will be incorporated within the FIS Report to reflect the effective dates of those panels. Please refer to Table 28 of this FIS Report to determine the most recent FIRM revision date for each community. The most recent FIRM panel effective date will correspond to the most recent index date.

SPECIAL NOTES FOR SPECIFIC FIRM PANELS

This Notes to Users section was created specifically for Fayette County, Kentucky**,** effective 88/88/8888**.**

COASTAL BARRIER RESOURCES (CBRS) NOTE: This section is not applicable to this FIS project.

LIMIT OF MODERATE WAVE ACTION: This section is not applicable to this FIS project.

ACCREDITED LEVEE NOTES TO USERS: This section is not applicable to this FIS project.

PROVISIONALLY ACCREDITED LEVEE NOTES TO USERS: This section is not applicable to this FIS project.

FLOOD RISK REPORT: A Flood Risk Report (FRR) may be available for many of the flooding sources and communities referenced in this FIS Report. The FRR is provided to increase public awareness of flood risk by helping communities identify the areas within their jurisdictions that have the greatest risks. Although non-regulatory, the information provided within the FRR can assist communities in assessing and evaluating mitigation opportunities to reduce these risks. It can also be used by communities developing or updating flood risk mitigation plans. These plans allow communities to identify and evaluate opportunities to reduce potential loss of life and property. However, the FRR is not intended to be the final authoritative source of all flood risk data for a project area; rather, it should be used with other data sources to paint a comprehensive picture of flood risk.

Figure 3: Map Legend for FIRM

SPECIAL FLOOD HAZARD AREAS: *The 1% annual chance flood, also known as the base flood or 100-year flood, has a 1% chance of happening or being exceeded each year. Special Flood Hazard Areas are subject to flooding by the 1% annual chance flood. The Base Flood Elevation is the water surface elevation of the 1% annual chance flood. The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights. See note for specific types. If the floodway is too narrow to be shown, a note is shown.*

	Special Flood Hazard Areas subject to inundation by the 1% annual chance flood (Zones A, AE, AH, AO, AR, A99, V and VE)
Zone A	The flood insurance rate zone that corresponds to the 1% annual chance floodplains. No base (1% annual chance) flood elevations (BFEs) or depths are shown within this zone.
Zone AE	The flood insurance rate zone that corresponds to the 1% annual chance floodplains. Base flood elevations derived from the hydraulic analyses are shown within this zone, either at cross section locations or as static whole-foot elevations that apply throughout the zone.
Zone AH	The flood insurance rate zone that corresponds to the areas of 1% annual chance shallow flooding (usually areas of ponding) where average depths are between 1 and 3 feet. Whole-foot BFEs derived from the hydraulic analyses are shown at selected intervals within this zone.
Zone AO	The flood insurance rate zone that corresponds to the areas of 1% annual chance shallow flooding (usually sheet flow on sloping terrain) where average depths are between 1 and 3 feet. Average whole-foot depths derived from the hydraulic analyses are shown within this zone.
Zone AR	The flood insurance rate zone that corresponds to areas that were formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
Zone A99	The flood insurance rate zone that corresponds to areas of the 1% annual chance floodplain that will be protected by a Federal flood protection system where construction has reached specified statutory milestones. No base flood elevations or flood depths are shown within this zone.
Zone V	The flood insurance rate zone that corresponds to the 1% annual chance coastal floodplains that have additional hazards associated with storm waves. Base flood elevations are not shown within this zone.
Zone VE	Zone VE is the flood insurance rate zone that corresponds to the 1% annual chance coastal floodplains that have additional hazards associated with storm waves. Base flood elevations derived from the coastal analyses are shown within this zone as static whole-foot elevations that apply throughout the zone.
	Regulatory Floodway determined in Zone AE.

Figure 3: Map Legend for FIRM

OTHER AREAS OF FLOOD HAZARD	
	Shaded Zone X: Areas of 0.2% annual chance flood hazards and areas of 1% annual chance flood hazards with average depths of less than 1 foot or with drainage areas less than 1 square mile.
	Future Conditions 1% Annual Chance Flood Hazard – Zone X: The flood insurance rate zone that corresponds to the 1% annual chance floodplains that are determined based on future-conditions hydrology. No base flood elevations or flood depths are shown within this zone.
	Area with Reduced Flood Risk due to Levee: Areas where an accredited levee, dike, or other flood control structure has reduced the flood risk from the 1% annual chance flood. See Notes to Users for important information.
OTHER AREAS	
	Zone D (Areas of Undetermined Flood Hazard): The flood insurance rate zone that corresponds to unstudied areas where flood hazards are undetermined, but possible
NO SCREEN	Unshaded Zone X: Areas determined to be outside the 0.2% annual chance flood hazard
FLOOD HAZARD AND OTHER BOUNDARY LINES	
(ortho) (vector)	Flood Zone Boundary (white line on ortho-photography-based mapping; gray line on vector-based mapping)
	Limit of Study
	Jurisdiction Boundary
	Limit of Moderate Wave Action (LiMWA): Indicates the inland limit of the area affected by waves greater than 1.5 feet
GENERAL STRUCTURES	
Aqueduct *Channel* *Culvert* *Storm Sewer*	Channel, Culvert, Aqueduct, or Storm Sewer
Dam *Jetty* *Weir*	Dam, Jetty, Weir
	Levee, Dike, or Floodwall accredited or provisionally accredited to reduce the flood risk from the 1% annual chance flood.
	Levee, Dike or Floodwall not accredited to reduce the flood risk from the 1% annual chance flood.
Bridge	Bridge

Figure 3: Map Legend for FIRM

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AND OTHERWISE PROTECTED AREAS (OPA): *CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas. See Notes to Users for important information.*	
CBRS AREA 09/30/2009	Coastal Barrier Resources System Area: Labels are shown to clarify where this area shares a boundary with an incorporated area or overlaps with the floodway.
OTHERWISE PROTECTED AREA 09/30/2009	Otherwise Protected Area
REFERENCE MARKERS	
22.0	River mile Markers
CROSS SECTION & TRANSECT INFORMATION	
B 20.2	Lettered Cross Section with Regulatory Water Surface Elevation (BFE)
5280 21.1	Numbered Cross Section with Regulatory Water Surface Elevation (BFE)
17.5	Unlettered Cross Section with Regulatory Water Surface Elevation (BFE)
8	Coastal Transect
	Profile Baseline: Indicates the modeled flow path of a stream and is shown on FIRM panels for all valid studies with profiles or otherwise established base flood elevation.
	Coastal Transect Baseline: Used in the coastal flood hazard model to represent the 0.0-foot elevation contour and the starting point for the transect and the measuring point for the coastal mapping.
513	Base Flood Elevation Line (shown for flooding sources for which no cross sections or profile are available)
ZONE AE (EL 16)	Static Base Flood Elevation value (shown under zone label)
ZONE AO (DEPTH 2)	Zone designation with Depth
ZONE AO (DEPTH 2) (VEL 15 FPS)	Zone designation with Depth and Velocity

Figure 3: Map Legend for FIRM

BASE MAP FEATURES	
Missouri Creek	River, Stream or Other Hydrographic Feature
234	Interstate Highway
234	U.S. Highway
234	State Highway
234	County Highway
MAPLE LANE	Street, Road, Avenue Name, or Private Drive if shown on Flood Profile
RAILROAD	Railroad
	Horizontal Reference Grid Line
—	Horizontal Reference Grid Ticks
+	Secondary Grid Crosshairs
Land Grant	Name of Land Grant
7	Section Number
R. 43 W. T. 22 N.	Range, Township Number
$^{42}76^{000m}$E	Horizontal Reference Grid Coordinates (UTM)
365000 FT	Horizontal Reference Grid Coordinates (State Plane)
80° 16’ 52.5”	Corner Coordinates (Latitude, Longitude)

SECTION 2.0 – FLOODPLAIN MANAGEMENT APPLICATIONS

2.1 Floodplain Boundaries

To provide a national standard without regional discrimination, the 1% annual chance (100-year) flood has been adopted by FEMA as the base flood for floodplain management purposes. The 0.2% annual chance (500-year) flood is employed to indicate additional areas of flood hazard in the community.

Each flooding source included in the project scope has been studied and mapped using professional engineering and mapping methodologies that were agreed upon by FEMA and Fayette County as appropriate to the risk level. Flood risk is evaluated based on factors such as known flood hazards and projected impact on the built environment. Engineering analyses were performed for each studied flooding source to calculate its 1% annual chance flood elevations; elevations corresponding to other floods (e.g. 10-, 4-, 2-, 0.2-percent annual chance, etc.) may have also been computed for certain flooding sources. Engineering models and methods are described in detail in Section 5.0 of this FIS Report. The modeled elevations at cross sections were used to delineate the floodplain boundaries on the FIRM; between cross sections, the boundaries were interpolated using elevation data from various sources. More information on specific mapping methods is provided in Section 6.0 of this FIS Report.

Depending on the accuracy of available topographic data (Table 23), study methodologies employed (Section 5.0), and flood risk, certain flooding sources may be mapped to show both the 1% and 0.2% annual chance floodplain boundaries, regulatory water surface elevations (BFEs), and/or a regulatory floodway. Similarly, other flooding sources may be mapped to show only the 1% annual chance floodplain boundary on the FIRM, without published water surface elevations. In cases where the 1% and 0.2% annual chance floodplain boundaries are close together, only the 1% annual chance floodplain boundary is shown on the FIRM. Figure 3, "Map Legend for FIRM", describes the flood zones that are used on the FIRMs to account for the varying levels of flood risk that exist along flooding sources within the project area. Table 2 and Table 3 indicate the flood zone designations for each flooding source and each community within Fayette County, KY, respectively.

Table 2, "Flooding Sources Included in this FIS Report," lists each flooding source, including its study limits, affected communities, mapped zone on the FIRM, and the completion date of its engineering analysis from which the flood elevations on the FIRM and in the FIS Report were derived. Descriptions and dates for the latest hydrologic and hydraulic analyses of the flooding sources are shown in Table 13. Floodplain boundaries for these flooding sources are shown on the FIRM (published separately) using the symbology described in Figure 3. On the map, the 1% annual chance floodplain corresponds to the SFHAs. The 0.2% annual chance floodplain shows areas that, although out of the regulatory floodplain, are still subject to flood hazards.

Small areas within the floodplain boundaries may lie above the flood elevations but cannot be shown due to limitations of the map scale and/or lack of detailed topographic data. The procedures to remove these areas from the SFHA are described in Section 6.5 of this FIS Report.

2.2 Floodways

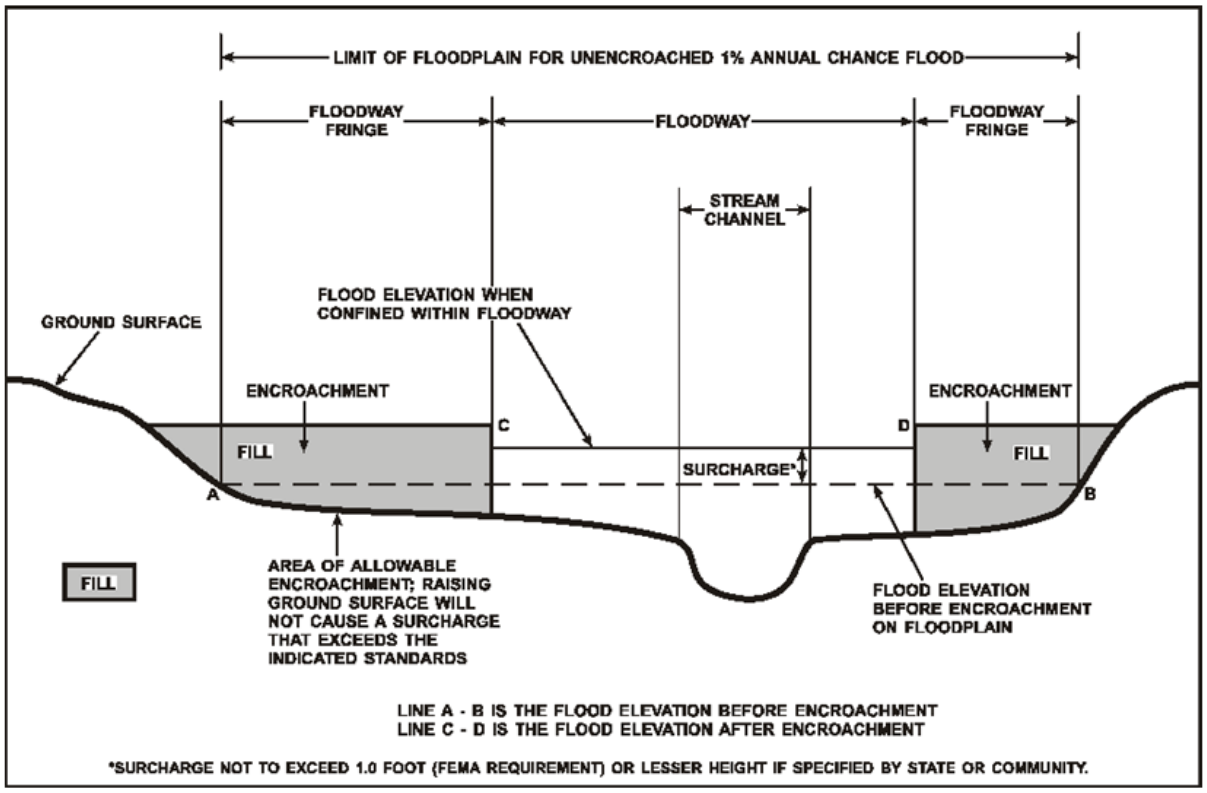
Encroachment on floodplains, such as structures and fill, reduces flood-carrying capacity, increases flood heights and velocities, and increases flood hazards in areas beyond the

encroachment itself. One aspect of floodplain management involves balancing the economic gain from floodplain development against the resulting increase in flood hazard.

For purposes of the NFIP, a floodway is used as a tool to assist local communities in balancing floodplain development against increasing flood hazard. With this approach, the area of the 1% annual chance floodplain on a river is divided into a floodway and a floodway fringe based on hydraulic modeling. The floodway is the channel of a stream, plus any adjacent floodplain areas, that must be kept free of encroachment in order to carry the 1% annual chance flood. The floodway fringe is the area between the floodway and the 1% annual chance floodplain boundaries where encroachment is permitted. The floodway must be wide enough so that the floodway fringe could be completely obstructed without increasing the water-surface elevation of the 1% annual chance flood more than 1 foot at any point. Typical relationships between the floodway and the floodway fringe and their significance to floodplain development are shown in Figure 4.

To participate in the NFIP, Federal regulations require communities to limit increases caused by encroachment to 1.0 foot, provided that hazardous velocities are not produced. Regulations for Kentucky require communities in Fayette County to limit increases caused by encroachment to 1.0 foot and several communities have adopted additional restrictions. The floodways in this project are presented to local agencies as minimum standards that can be adopted directly or that can be used as a basis for additional floodway projects.

Figure 4: Floodway Schematic



Floodway widths presented in this FIS Report and on the FIRM were computed at cross sections. Between cross sections, the floodway boundaries were interpolated. For certain stream segments, floodways were adjusted so that the amount of floodwaters conveyed on each side of the floodplain would be reduced equally. The results of the floodway computations have been tabulated for selected cross sections and are shown in Table 24, “Floodway Data.”

Table 2: Flooding Sources Included in this FIS Report

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi^2) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Antioch Church Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with Muir Station Road Tributary	0.53 miles upstream of intersection with US-27	05100205	0.58		Y	AE	3/2012
Armstrong Mill Road Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with Delong Road Tributary	0.21 miles upstream of intersection with Squires Hill Lane	05100205	1.5		Y	AE	9/1990
Avon Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with North Elkhorn Creek	0.34 miles upstream of intersection with I-64	05100205	11.71		Y	AE	3/2012
Avon Tributary 1	Lexington-Fayette Urban County Government, Kentucky	Confluence with Avon Tributary	0.35 miles upstream of confluence with Avon Tributary	05100205	0.35		Y	AE	3/2012
Baughman Fork	Lexington-Fayette Urban County Government, Kentucky	Confluence with Boone Creek	3.18 miles upstream of intersection with North Cleveland Road	05100205	6.51		Y	AE	3/2012
Baughman Fork Tributary 1	Lexington-Fayette Urban County Government, Kentucky	Confluence with Baughman Fork	0.67 miles upstream of intersection with Athens Boonesboro Road	05100205	2.8		Y	AE	3/2012
Baughman Fork Tributary 2	Lexington-Fayette Urban County Government, Kentucky	Confluence with Baughman Fork	0.27 miles upstream of confluence with Baughman Fork	05100205	0.27		N	A	3/2012

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Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi^2) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Baughman Fork Tributary 3	Lexington-Fayette Urban County Government, Kentucky	Confluence with Baughman Fork	0.67 miles upstream of intersection with Cutters Hill Court	05100205	1.5		Y	AE	3/2012
Baughman Fork Tributary 3.1	Lexington-Fayette Urban County Government, Kentucky	Confluence with Baughman Fork Tributary 3	0.76 miles upstream of confluence with Baughman Fork Tributary 3	05100205	0.76		Y	AE	3/2012
Baughman Fork Tributary 3.1.1	Lexington-Fayette Urban County Government, Kentucky	Confluence with Baughman Fork Tributary 3.1	0.86 miles upstream of confluence with Baughman Fork Tributary 3.1	05100205	0.86		Y	AE	3/2012
Beacon Hill Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with Wolf Run	0.08 miles upstream of intersection with Holly Springs Drive	05100205	0.12		Y	AE	9/1990
Bethel Road Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with Town Branch	0.76 miles upstream of intersection with Yarnallton Road	05100205	2.36		Y	AE	3/2012
Big Elm Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with Vaughns Branch	0.73 miles upstream of intersection with Harrodsburg Road	05100205	1.18		Y	AE	9/1990
Big Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with David Fork	0.60 miles upstream of intersection with Winchester Road	05100205	2.83		Y	AE	3/2012

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Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi^2) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
BM 897 Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with North Elkhorn Creek	0.22 miles upstream of intersection with New Town Pike	05100205	1.46		Y	AE	3/2012
BM 907-39 Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with UK Agriculture Branch	0.96 miles upstream of confluence with UK Agriculture Branch	05100205	0.96		Y	AE	3/2012
Boggs Fork	Lexington-Fayette Urban County Government, Kentucky	Confluence with Boone Creek	2.23 miles upstream of intersection with I-75	05100205	5.74		Y	AE	3/2012
Boggs Fork Tributary 2	Lexington-Fayette Urban County Government, Kentucky	Confluence with Boggs Fork	0.46 miles downstream of confluence with Boggs Fork	05100205	0.46		Y	AE	3/2012
Boone Creek	Lexington-Fayette Urban County Government, Kentucky	Confluence with Kentucky River	1.08 miles upstream of intersection with Todds Road	05100205	16.83		Y	AE	3/2012
Boone Creek Tributary 1	Lexington-Fayette Urban County Government, Kentucky	Confluence with Boone Creek	0.61 miles upstream of confluence with Boone Creek	05100205	0.61		Y	AE	3/2012
Boone Creek Tributary 2	Lexington-Fayette Urban County Government, Kentucky	Confluence with Boone Creek	1.17 miles upstream of confluence with Boone Creek	05100205	1.17		Y	AE	3/2012

Table 2: Flooding Sources Included in this FIS Report

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi^2) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Bowman Mill Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with South Elkhorn Creek	0.17 miles upstream of intersection with Palomar Boulevard	05100205	0.71		Y	AE	9/26/2003
Bracktown Branch	Lexington-Fayette Urban County Government, Kentucky	Confluence with Town Branch	0.03 miles upstream of intersection with Greendale Road	05100205	2.59		Y	AE	3/2012
Bracktown Branch Tributary 1	Lexington-Fayette Urban County Government, Kentucky	Confluence with Bracktown Branch	0.13 miles upstream of intersection with Ruffian Way	05100205	0.99		N	A	3/2012
Brighton Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with North Elkhorn Creek	0.16 miles upstream of intersection with I-75	05100205	1.42		Y	AE	3/2012
Bryan Station Spring Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with North Elkhorn Creek	1.42 miles upstream of intersection with Railroad	05100205	1.88		Y	AE	3/2012
Bryan Station Spring Tributary 1	Lexington-Fayette Urban County Government, Kentucky	Confluence with Bryan Station Spring Tributary	0.53 miles upstream of intersection with Railroad	05100205	0.68		Y	AE	3/2012
Bryant Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with North Elkhorn Creek	0.40 miles upstream of intersection with Polo Club Boulevard	05100205	1.05		Y	AE	9/26/2003

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Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi^2) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Cadentown Branch	Lexington-Fayette Urban County Government, Kentucky	Confluence with Lexington Reservoir No. 4	0.16 miles upstream of intersection with Old Todds Road	05100205	1.26		Y	AE	9/1990
Cadentown Branch East	Lexington-Fayette Urban County Government, Kentucky	Confluence with Cadentown Branch	0.37 miles upstream of intersection with Todds Road	05100205	0.58		Y	AE	9/1990
Cane Run	Lexington-Fayette Urban County Government, Kentucky	County boundary	0.02 miles upstream of intersection with N Broadway	05100205	9.01		Y	AE	9/1990
Cane Run Tributary 1	Lexington-Fayette Urban County Government, Kentucky	Confluence with Cane Run	0.63 miles upstream of confluence with Cane Run	05100205	0.63		N	A	3/2012
Cave Creek	Lexington-Fayette Urban County Government, Kentucky	Confluence with South Elkhorn Creek	0.32 miles upstream of intersection with Ridgecane Road	05100205	3.71		Y	AE	9/1990
Cave Hill Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with Bowman Hill Tributary	0.56 miles upstream of confluence with Bowman Hill Tributary	05100205	0.56		Y	AE	9/26/2003
Cemetery Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with Lemons Mill Road Tributary	0.49 miles downstream of intersection with Lemons Mill Road Tributary	05100205	0.49		Y	AE	3/2012

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Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi^2) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Colonial Drive Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with Gardenside Tributary	0.51 miles upstream of intersection with Williamsburg Road	05100205	0.62		Y	AE	9/1990
David Fork	Lexington-Fayette Urban County Government, Kentucky	Confluence with North Elkhorn Creek	0.26 miles upstream of intersection with North Cleveland Road	05100205	5.14		Y	AE	3/2012
David Fork Tributary 1	Lexington-Fayette Urban County Government, Kentucky	Confluence with David Fork	0.04 miles upstream of intersection with North Cleveland Road	05100205	0.50		Y	AE	3/2012
Delong Road Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with Armstrong Mill Road Tributary	0.29 miles upstream of intersection with Squire Oak Drive	05100205	0.85		Y	AE	3/2012
Dixie Tributary	Lexington-Fayette Urban County Government, Kentucky	0.36 miles downstream from intersection with county boundary	1.69 miles upstream of intersection with Georgetown Road	05100205	3.17		Y	AE	3/2012
Dogwood Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with Cave Creek	0.05 miles upstream of intersection with Beaumont Centre Lane	05100205	0.38		Y	AE	9/1990
Douglas Park Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with Cane Run	0.10 miles upstream of intersection with Nandino Blvd	05100205	0.87		Y	AE	9/1990

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Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi^2) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Drive-in Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with South Elkhorn Creek	0.17 miles upstream of intersection with county boundary	05100205	1.30		Y	AE	3/2012
East Hickman Creek	Lexington-Fayette Urban County Government, Kentucky	County boundary	Confluence with Lexington Reservoir No.4	05100205	5.71		Y	AE	9/1990
East Hickman Creek Tributary 1	Lexington-Fayette Urban County Government, Kentucky	Confluence with East Hickman Creek	0.65 miles upstream of intersection with Delong Road	05100205	0.69		N	A	3/2012
East I-75 Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with I-75 Tributary	0.22 miles upstream of intersection with Old Rosebud Road	05100205	1.00		Y	AE	9/1990
Eastland Park Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with I-75 Tributary	0.31 miles upstream of intersection with Eastland Parkway	05100205	1.60		Y	AE	9/1990
Elk Lick Creek	Lexington-Fayette Urban County Government, Kentucky	Confluence with Kentucky River	2.40 miles upstream of confluence with Kentucky River	05100205	2.4		N	A	3/2012
Elk Lick Creek Tributary 1	Lexington-Fayette Urban County Government, Kentucky	Confluence with Elk Lick Creek	0.71 miles upstream of confluence with Elk Lick Creek	05100205	0.71		N	A	3/2012
Five Pond Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence of intersection with North Elkhorn Creek Tributary	0.56 miles upstream of intersection with Barrington Lane	05100205	1.10		Y	AE	3/2012

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Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi^2) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Flintridge Drive Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with Wilson Downing Tributary	0.17 miles upstream of confluence with Wilson Downing Tributary	05100205	0.17		Y	AE	9/1990
Gardenside Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with Wolf Run	0.14 miles upstream of intersection with Lane Allen Road	05100205	1.49		Y	AE	9/1990
Goose Creek	Lexington-Fayette Urban County Government, Kentucky	County boundary	0.60 miles upstream of intersection with Greenwich Pike	05100205	4.84		Y	AE	3/2012
Goose Creek Tributary 1	Lexington-Fayette Urban County Government, Kentucky	Confluence with Goose Creek	0.08 miles upstream of intersection with county boundary	05100205	1.27		N	A	3/2012
Greendale Road Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with Bracktown Branch	0.31 miles upstream of confluence with Bracktown Branch	05100205	0.31		Y	AE	9/1990
Greenwich Road Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with Harp Innis Road Tributary	0.60 miles upstream of confluence with Harp Innis Road Tributary	05100205	0.60		Y	AE	3/2012
Harp Innis Road Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with North Elkhorn Creek	1.81 miles upstream of intersection with Greenwich Pike	05100205	3.87		Y	AE	3/2012

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Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi^2) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Harps Fork Creek	Lexington-Fayette Urban County Government, Kentucky	Confluence with Goose Creek	0.07 miles upstream of intersection with Hume Bedford Pike	05100205	1.93		N	A	3/2012
Heliport Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with Highway 68-27 Tributary	1.49 miles upstream of intersection with Iron Works Pike	05100205	1.88		Y	AE	3/2012
Higbee Mill Road Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with West Hickman Creek	0.90 miles upstream of intersection with Brookridge Drive	05100205	1.36		Y	AE	9/1990
Highway 68-27 Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with North Elkhorn Creek	0.08 miles upstream of intersection with The Grange Lane	05100205	2.94		Y	AE	3/2012
Highway 922 Tributary North Fork	Lexington-Fayette Urban County Government, Kentucky	Confluence with UK Agriculture Station Branch	1.16 miles upstream of confluence with UK Agriculture Station Branch	05100205	1.16		Y	AE	3/2012
Highway 922 Tributary South Fork	Lexington-Fayette Urban County Government, Kentucky	Confluence with Highway 900 Tributary North Fork	1.07 miles upstream of confluence with Highway 900 Tributary North Fork	05100205	1.07		Y	AE	3/2012
Howard Grove Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with Avon Tributary	1.01 miles upstream of intersection with Castle Rock Way	05100205	2.17		Y	AE	3/2012

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Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi^2) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Huffman Mill Road Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with North Elkhorn Creek	0.38 miles upstream of intersection with Old Lemons Mill Road	05100205	1.60		Y	AE	3/2012
Hughes Lane Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with North Elkhorn Creek	0.89 miles upstream of intersection with Hughes Lane	05100205	1.79		Y	AE	3/2012
Hume Road Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with North Elkhorn Creek	0.23 miles upstream of intersection with Hume Road	05100205	1.72		Y	AE	9/1990
I-64 Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with Cane Run	0.89 miles upstream of confluence with Cane Run	05100205	0.89		Y	AE	3/2012
I-75 Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with North Elkhorn Creek	0.26 miles upstream of intersection with Star Shoot Parkway	05100205	3.69		Y	AE	3/2012
IBM Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with Cane Run	0.60 miles upstream of intersection with New Circle Road	05100205	0.81		Y	AE	9/1990
Idle Hour Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with West Hickman Creek	0.38 miles upstream of confluence with West Hickman Creek	05100205	0.38		Y	AE	9/1990

Table 2: Flooding Sources Included in this FIS Report

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi^2) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Indian Hills Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with Stonewall Estates Tributary	0.39 miles upstream of intersection with Wellington Way	05100205	0.43		Y	AE	9/1990
Interchange Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with Avon Tributary	0.67 miles upstream of intersection with Haley Road	05100205	4.09		Y	AE	3/2012
Ironworks Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with Cane Run	0.20 miles upstream of intersection with Rushing Wind Lane	05100205	1.63		Y	AE	3/2012
Jimtown Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with Goose Creek	1.68 miles upstream of intersection with Ferguson Road	05100205	3.22		Y	AE	3/2012
Johnson Road Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with North Elkhorn Creek	0.45 miles upstream of intersection with Bryan Station Road	05100205	0.74		Y	AE	3/2012
Jones Creek	Lexington-Fayette Urban County Government, Kentucky	Confluence with Boone Creek	1.23 miles upstream of downstream of North Cleveland Road	05100205	5.04		Y	AE	3/2012
Jones Creek Tributary 1	Lexington-Fayette Urban County Government, Kentucky	Confluence with Jones Creek	0.31 miles upstream of confluence with Jones Creek	05100205	0.31		Y	AE	3/2012

Table 2: Flooding Sources Included in this FIS Report

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi^2) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Jones Creek Tributary 2	Lexington-Fayette Urban County Government, Kentucky	Confluence with Jones Creek	0.58 miles upstream of intersection with North Cleveland Road	05100205	1.44		Y	AE	3/2012
Kearney Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with Dixie Tributary	1.52 miles upstream of intersection with Georgetown Road	05100205	1.60		Y	AE	3/2012
Kentucky River	Lexington-Fayette Urban County Government, Kentucky	County boundary	County boundary	05100205	12.79		Y	AE	9/1990
Kentucky River Tributary 1	Lexington-Fayette Urban County Government, Kentucky	Confluence with Kentucky River	1.60 miles upstream of intersection with Dry Branch Road	05100205	1.85		N	A	3/2012
Lansdowne Drive Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with Tates Creek	0.24 miles upstream of intersection with Bellefonte Drive	05100205	1.28		Y	AE	9/1990
Lemons Mill Road Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with North Elkhorn Creek	1.49 miles upstream of intersection with Old Lemons Mill Road	05100205	2.34		Y	AE	3/2012
Manchester Branch	Lexington-Fayette Urban County Government, Kentucky	Confluence with South Elkhorn Creek	0.57 miles upstream of intersection with Back Gate Drive	05100205	3.03		Y	AE	3/2012

Table 2: Flooding Sources Included in this FIS Report

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi^2) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Manchester Branch Tributary 1	Lexington-Fayette Urban County Government, Kentucky	Confluence with Manchester Branch	0.29 miles upstream of confluence with Keeneland Boulevard	05100205	0.62		Y	AE	3/2012
Marble Creek	Lexington-Fayette Urban County Government, Kentucky	County boundary	0.56 miles upstream of intersection with Crawley Lane	05100205	1.46		N	A	3/2012
Mary Reynolds Creek	Lexington-Fayette Urban County Government, Kentucky	Confluence with Boone Creek	1.86 miles upstream of intersection with Todds Road	05100205	2.02		Y	AE	3/2012
Mattoxtown Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with Mount Horeb Road Tributary	0.53 miles upstream of confluence with Mount Horeb Road Tributary	05100205	0.53		Y	AE	3/2012
Melody Village Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with West Hickman Creek	0.01 miles upstream of intersection with Tanbark Road	05100205	0.65		Y	AE	9/1990
Mt. Horeb Road Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with North Elkhorn Creek	2.09 miles upstream of intersection with Mount Horeb Pike	05100205	2.29		Y	AE	3/2012
Muir Station Road Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with North Elkhorn Creek	1.13 miles upstream of intersection with Hughes Lane	05100205	2.56		Y	AE	3/2012

Table 2: Flooding Sources Included in this FIS Report

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi^2) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
North Branch A	Lexington-Fayette Urban County Government, Kentucky	Confluence with Huffman Mill Road Tributary	0.66 miles upstream of confluence with Huffman Mill Road Tributary	05100205	0.66		Y	AE	3/2012
North Branch B	Lexington-Fayette Urban County Government, Kentucky	Confluence with Highway 68-27 Tributary	0.27 miles upstream of intersection with Paris Pike	05100205	0.56		Y	AE	3/2012
North Elkhorn Creek	Lexington-Fayette Urban County Government, Kentucky	0.27 miles downstream of intersection with county boundary	0.95 miles upstream of intersection with Blackford Parkway	05100205	25.28		Y	AE	3/2012
North Elkhorn Creek Tributary 17	Lexington-Fayette Urban County Government, Kentucky	Confluence with North Elkhorn Creek	0.87 miles upstream of confluence with North Elkhorn Creek	05100205	0.87		Y	AE	3/2012
Old Pine Grove Tributary	Lexington-Fayette Urban County Government, Kentucky	0.20 miles downstream of intersection with county boundary	1.19 miles upstream of intersection with county boundary	05100205	1.39		Y	AE	3/2012
Parkers Mill Road Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with Cave Creek	0.90 miles upstream of intersection with Parkers Mill Road	05100205	1.32		Y	AE	9/1990
Pine Grove Tributary	Lexington-Fayette Urban County Government, Kentucky	0.17 miles downstream of intersection with county boundary	1.70 miles upstream of intersection with county boundary	05100205	1.87		Y	AE	3/2012

Table 2: Flooding Sources Included in this FIS Report

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi^2) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Pipeline Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with Lexington Reservoir No. 4	0.05 miles upstream of intersection with Jouett Creek Drive	05100205	1.68		Y	AE	3/2012
Pleasant Ridge Church Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with I-75 Tributary	0.16 miles upstream of intersection with Liberty Road	05100205	1.14		Y	AE	3/2012
Quarry Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with South Elkhorn Creek	0.05 miles upstream of intersection with Foleys Trail	05100205	0.80		Y	AE	3/2012
Radio Tower Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with East Hickman Creek	0.10 miles upstream of intersection with Kenesaw Drive	05100205	1.66		Y	AE	3/2012
Raven Run	Lexington-Fayette Urban County Government, Kentucky	Confluence with the Kentucky River	1.85 miles upstream of confluence with Kentucky River	05100205	1.85		N	A	3/2012
Raven Run Tributary 1	Lexington-Fayette Urban County Government, Kentucky	Confluence with Raven Run	0.13 miles upstream of confluence with Raven Run	05100205	0.13		N	A	3/2012
Reservoir Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with Lexington Reservoir No. 4	0.06 miles upstream of intersection with Eureka Springs Drive	05100205	0.68		Y	AE	9/1990
Reservoir Tributary East	Lexington-Fayette Urban County Government, Kentucky	Confluence with Lexington Reservoir No. 4	0.44 mile upstream of intersection with Yorkshire Blvd	05100205	1.07		Y	AE	9/1990

Table 2: Flooding Sources Included in this FIS Report

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi^2) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Richmond Road Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with Lexington Reservoir No. 4	0.15 miles upstream of intersection with Man O' War Boulevard	05100205	1.09		Y	AE	9/1990
Shadeland Drive Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with Tates Creek	0.15 miles upstream of intersection with Tates Creek Road	05100205	0.41		Y	AE	9/1990
Shannon Run	Lexington-Fayette Urban County Government, Kentucky	Confluence with South Elkhorn Creek	1.79 miles upstream of intersection with James Lane	05100205	6.73		Y	AE	3/2012
Shannon Run Tributary 2	Lexington-Fayette Urban County Government, Kentucky	Confluence with Shannon Run	0.02 miles upstream of intersection with Military Pike	05100205	0.72		N	A	3/2012
Shannon Run Tributary 3	Lexington-Fayette Urban County Government, Kentucky	Confluence with Shannon run	0.02 miles upstream of intersection with county boundary	05100205	0.19		Y	AE	3/2012
Shannon Run Tributary 4	Lexington-Fayette Urban County Government, Kentucky	Confluence with Shannon run	0.18 miles upstream of intersection with county boundary	05100205	0.51		N	A	3/2012
Shannon Run Tributary 5	Lexington-Fayette Urban County Government, Kentucky	Confluence with Shannon run	0.15 miles upstream of intersection with county boundary	05100205	0.40		N	A	3/2012
Shelby Branch	Lexington-Fayette Urban County Government, Kentucky	County boundary	0.97 miles upstream of intersection with Shelby Lane	05100205	4.19		Y	AE	3/2012

Table 2: Flooding Sources Included in this FIS Report

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi^2) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Shelby Branch Tributary 1	Lexington-Fayette Urban County Government, Kentucky	Confluence with Shelby Branch	0.31 miles upstream of intersection with Shelby Lane	05100205	0.47		Y	AE	3/2012
Shelby Branch Tributary 2	Lexington-Fayette Urban County Government, Kentucky	Confluence with Shelby Branch	1.22 miles upstream of confluence with Shelby Branch	05100205	1.22		Y	AE	3/2012
Shelby Branch Tributary 3	Lexington-Fayette Urban County Government, Kentucky	Confluence with Shelby Branch	1.31 miles upstream of confluence with Shelby Branch	05100205	1.31		Y	AE	3/2012
Shelby Branch Tributary 3.1	Lexington-Fayette Urban County Government, Kentucky	Confluence with Shelby Branch Tributary 3	0.76 miles upstream of confluence with Shelby Branch Tributary 3	05100205	0.76		Y	AE	3/2012
Sinkhole Stream	Lexington-Fayette Urban County Government, Kentucky	0.26 miles downstream of intersection with county boundary	0.29 miles upstream of county boundary	05100205	0.54		N	A	3/2012
South Elkhorn Creek	Lexington-Fayette Urban County Government, Kentucky	0.38 miles from Monticello Boulevard	0.45 miles upstream of intersection with county boundary	05100205	14.22		Y	AE	3/2012
Southpoint Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with West Hickman Creek	0.48 miles upstream of intersection with Southpoint Drive	05100205	1.77		Y	AE	9/26/2003
Squires Road Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with East Hickman Creek	0.16 miles upstream of intersection with Man O' War Blvd	05100205	0.85		Y	AE	9/1990

Table 2: Flooding Sources Included in this FIS Report

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi^2) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Steeles Run	Lexington-Fayette Urban County Government, Kentucky	County boundary	0.20 miles upstream of intersection with Miss Alleged Drive	05100205	4.04		Y	AE	9/1990
Stonewall Estates Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with South Elkhorn Creek	0.48 miles upstream of intersection with Stone Road	05100205	2.94		Y	AE	9/1990
Stonewall Estates Tributary 2	Lexington-Fayette Urban County Government, Kentucky	Confluence with Stonewall Estates Tributary	0.38 miles upstream of intersection with Wellington Way	05100205	0.55		Y	AE	3/2012
Tates Creek	Lexington-Fayette Urban County Government, Kentucky	Confluence with West Hickman Creek	0.31 miles upstream of intersection with Alumni Drive	05100205	2.65		Y	AE	9/1990
Tiverton Way Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with West Hickman Creek	0.97 miles upstream of intersection with Man O' War Blvd	05100205	1.62		Y	AE	9/1990
Todds Road Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with Lexington Reservoir No. 4	0.55 miles upstream of intersection with Deer Haven Lane	05100205	2.22		Y	AE	3/2012
Todds Road Tributary North	Lexington-Fayette Urban County Government, Kentucky	Confluence Todds Road Tributary	0.42 miles upstream of intersection with Autumn Ridge Drive	05100205	0.62		Y	AE	9/1990
Town Branch	Lexington-Fayette Urban County Government, Kentucky	County boundary	0.20 miles upstream of intersection with Oliver Lewis Way	05100205	12..03		Y	AE	9/1990

Table 2: Flooding Sources Included in this FIS Report

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi^2) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Town Branch Tributary 1	Lexington-Fayette Urban County Government, Kentucky	Confluence with Town Branch	0.03 miles upstream of intersection with Valley Avenue	05100205	0.35		N	A	3/2012
Town Branch Tributary 2	Lexington-Fayette Urban County Government, Kentucky	Confluence with Town Branch	0.41 miles upstream of intersection with Leestown Road	05100205	0.48		N	A	3/2012
Tributary to Bethel Rd Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with Bethel Road Tributary	0.14 miles upstream of confluence with Bethel Road Tributary	05100205	0.14		N	A	3/2012
Two Ponds Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with Pleasant Ridge Church Tributary	0.16 miles upstream of intersection with Liberty Road	05100205	0.48		Y	AE	3/2012
U.K. Agriculture Station Branch	Lexington-Fayette Urban County Government, Kentucky	Confluence with Cane Run	0.76 miles upstream of intersection with Newtown Pike	05100205	4.19		Y	AE	3/2012
U.S. Route 60 Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with Eastland Park Tributary	0.19 miles upstream of confluence with Winchester Road	05100205	0.88		Y	AE	9/1990
Unnamed Tributary to I-75 Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with I-75 Tributary	0.30 miles upstream of intersection with Liberty Road	05100205	0.54		Y	AE	3/2012

Table 2: Flooding Sources Included in this FIS Report

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi^2) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Unnamed Tributary to Lemons Mill Road Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with Lemons Mill Tributary	0.34 miles upstream of confluence with Lemons Mill Tributary	05100205	0.34		Y	AE	3/2012
Unnamed Tributary to North Elkhorn Creek Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with North Elkhorn Creek	0.19 miles upstream of confluence with North Elkhorn Creek	05100205	0.19		Y	AE	3/2012
Unnamed Tributary to Walnut Hill Church Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with Walnut Hill Church Tributary	0.34 miles upstream of intersection with Old Richmond Road	05100205	1.27		Y	AE	3/2012
Vaughns Branch	Lexington-Fayette Urban County Government, Kentucky	Confluence with Wolf Run	1.48 miles upstream of intersection with Versailles Road	05100205	2.25		Y	AE	9/1990
Walnut Hill Church Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with East Hickman Creek	0.46 miles upstream of intersection with Old Richmond Road	05100205	2.78		Y	AE	3/2012
Waveland Museum Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with South Elkhorn Creek	0.23 miles upstream of intersection with Winthrop Drive	05100205	1.47		Y	AE	9/1990
West Hickman Creek	Lexington-Fayette Urban County Government, Kentucky	County boundary	Confluence Lexington Reservoir No. 3	05100205	4.88		Y	AE	06/24/2014

Table 2: Flooding Sources Included in this FIS Report

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi^2) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
West Hickman Creek	Lexington-Fayette Urban County Government, Kentucky	Confluence Lexington Reservoir No. 3	0.3 mile upstream of intersection with Richmond Rd (US-25)	05100205			Y	AE	
Wilson Downing Tributary	Lexington-Fayette Urban County Government, Kentucky	Confluence with West Hickman Creek	0.33 upstream of intersection with Lansdowne Drive	05100205	1.9		Y	AE	9/1990
Wolf Run	Lexington-Fayette Urban County Government, Kentucky	Confluence with Town Branch	0.08 miles upstream of intersection with Plaza Drive	05100205	5.55		Y	AE	9/26/2003

All floodways that were developed for this FIS project are shown on the FIRM using the symbology described in Figure 3. In cases where the floodway and l% annual chance floodplain boundaries are either close together or collinear, only the floodway boundary has been shown on the FIRM. For information about the delineation of floodways on the FIRM, refer to Section 6.3.

2.3 Base Flood Elevations

The hydraulic characteristics of flooding sources were analyzed to provide estimates of the elevations of floods of the selected recurrence intervals. The Base Flood Elevation (BFE) is the elevation of the 1% annual chance flood. These BFEs are most commonly rounded to the whole foot, as shown on the FIRM, but in certain circumstances or locations they may be rounded to 0.1 foot. Cross section lines shown on the FIRM may also be labeled with the BFE rounded to 0.1 foot. Whole-foot BFEs derived from engineering analyses that apply to coastal areas, areas of ponding, or other static areas with little elevation change may also be shown at selected intervals on the FIRM.

Cross sections with BFEs shown on the FIRM correspond to the cross sections shown in the Floodway Data table and Flood Profiles in this FIS Report. BFEs are primarily intended for flood insurance rating purposes. For construction and/or floodplain management purposes, users are cautioned to use the flood elevation data presented in this FIS Report in conjunction with the data shown on the FIRM.

2.4 Non-Encroachment Zones

Some States and communities use non-encroachment zones to manage floodplain development. While not a FEMA designated floodway, the non-encroachment zone represents that area around the stream that should be reserved to convey the 1% annual chance flood event. This section is not applicable to this Flood Risk Project.

Regulations for Kentucky require communities in Fayette County to limit increases caused by encroachment to 1 foot and several communities have adopted additional restrictions for non-encroachment areas.

Non-encroachment determinations may be delineated where it is not possible to delineate floodways because specific channel profiles with bridge and culvert geometry were not developed. Any non-encroachment determinations for this FIS project have been tabulated for selected cross sections and are shown in Table 25, “Flood Hazard and Non-Encroachment Data for Selected Streams.”

2.5 Coastal Flood Hazard Areas

This section is not applicable to this FIS project.

2.5.1 Water Elevations and the Effects of Waves

This section is not applicable to this FIS project.

Figure 5: Wave Runup Transect Schematic

[Not Applicable to this FIS Project]

2.5.2 Floodplain Boundaries and BFEs for Coastal Areas

This section is not applicable to this FIS project.

2.5.3 Coastal High Hazard Areas

This section is not applicable to this FIS project.

Figure 6: Coastal Transect Schematic

[Not Applicable to this FIS Project]

2.5.4 Limit of Moderate Wave Action

This section is not applicable to this FIS project.

SECTION 3.0 – INSURANCE APPLICATIONS

3.1 National Flood Insurance Program Insurance Zones

For flood insurance applications, the FIRM designates flood insurance rate zones as described in Figure 3, "Map Legend for FIRM." Flood insurance zone designations are assigned to flooding sources based on the results of the hydraulic or coastal analyses. Insurance agents use the zones shown on the FIRM and depths and base flood elevations in this FIS Report in conjunction with information on structures and their contents to assign premium rates for flood insurance policies.

The 1% annual chance floodplain boundary corresponds to the boundary of the areas of special flood hazards (e.g. Zones A, AE, V, VE, etc.), and the 0.2% annual chance floodplain boundary corresponds to the boundary of areas of additional flood hazards.

Table 3 lists the flood insurance zones in the unincorporated and incorporated areas of Fayette County.

Table 3: Flood Zone Designations by Community

Community	Flood Zone(s)
Lexington-Fayette Urban County Government, Kentucky	A, AE, X

3.2 Coastal Barrier Resources System

The Coastal Barrier Resources Act (CBRA) of 1982 was established by Congress to create areas along the Atlantic and Gulf coasts and the Great Lakes, where restrictions for Federal financial assistance including flood insurance are prohibited. In 1990, Congress passed the Coastal Barrier Improvement Act (CBIA), which increased the extent of areas established by the CBRA and added "Otherwise Protected Areas" (OPA) to the system. These areas are collectively referred to as the John. H Chafee Coastal Barrier Resources System (CBRS). The CBRS boundaries that have been identified in the project area are in Table 4, "Coastal Barrier Resources System Information."

Table 4: Coastal Barrier Resources System Information

[Not Applicable to this FIS Project]

SECTION 4.0 – AREA STUDIED

4.1 Basin Description

Table 5 contains a description of the characteristics of the HUC-8 sub-basins within which each community falls. The table includes the main flooding sources within each basin, a brief description of the basin, and its drainage area.

Table 5: Basin Characteristics

HUC-8 Sub-Basin Name	HUC-8 Sub-Basin Number	Primary Flooding Source	Description of Affected Area	Drainage Area (square miles)
Lower Kentucky	05100205	Kentucky River	Begins at confluence with Ohio River and extends southeast, affecting the southern half of Clark County	3,240

4.2 Principal Flood Problems

Table 6 contains a description of the principal flood problems that have been noted for Fayette County by flooding source.

Table 6: Principal Flood Problems

Flooding Source	Description of Flood Problems
East Hickman Creek, West Hickman Creek, North Elkhorn Creek, Cane Run, South Elkhorn Creek, Wolf Run Creek, Town Branch	Low lying areas adjacent to the numerous streams of Fayette County are subject to periodic flooding from overflow of the various streams. Although flooding has occurred during all seasons of the year, spring and summer thunderstorms have caused the most damage.

Table 7 contains information about historic flood elevations in the communities within Fayette County.

Table 7: Historic Flooding Elevations

[Not Applicable to this FIS Project]

4.3 Non-Levee Flood Protection Measures

Table 8 contains information about non-levee flood protection measures within Fayette County such as dams, jetties, and or dikes. Levees are addressed in Section 4.4 of this FIS Report.

Table 8: Non-Levee Flood Protection Measures

[Not Applicable to this FIS Project]

4.4 Levees

This section is not applicable to this FIS project.

Table 9: Levees

[Not Applicable to this FIS Project]

SECTION 5.0 – ENGINEERING METHODS

For the flooding sources in the community, standard hydrologic and hydraulic study methods were used to determine the flood hazard data required for this study. Flood events of a magnitude that are expected to be equaled or exceeded at least once on the average during any 10-, 25-, 50-, 100-, or 500-year period (recurrence interval) have been selected as having special significance for floodplain management and for flood insurance rates. These events, commonly termed the 10-, 25-, 50-, 100-, and 500-year floods, have a 10-, 4-, 2-, 1-, and 0.2% annual chance, respectively, of being equaled or exceeded during any year.

Although the recurrence interval represents the long-term, average period between floods of a specific magnitude, rare floods could occur at short intervals or even within the same year. The risk of experiencing a rare flood increases when periods greater than 1 year are considered. For example, the risk of having a flood that equals or exceeds the 100-year flood (1-percent chance of annual exceedance) during the term of a 30-year mortgage is approximately 26 percent (about 3 in 10); for any 90-year period, the risk increases to approximately 60 percent (6 in 10). The analyses reported herein reflect flooding potentials based on conditions existing in the community at the time of completion of this study. Maps and flood elevations will be amended periodically to reflect future changes.

The engineering analyses described here incorporate the results of previously issued Letters of Map Change (LOMCs) listed in Table 27, "Incorporated Letters of Map Change", which include Letters of Map Revision (LOMRs). For more information about LOMRs, refer to Section 6.5, "FIRM Revisions."

5.1 Hydrologic Analyses

Hydrologic analyses were carried out to establish the peak elevation-frequency relationships for floods of the selected recurrence intervals for each flooding source studied. Hydrologic analyses are typically performed at the watershed level. Depending on factors such as watershed size and shape, land use and urbanization, and natural or man-made storage, various models or methodologies may be applied. A summary of the hydrologic methods applied to develop the discharges used in the hydraulic analyses for each stream is provided in Table 13. Greater detail (including assumptions, analysis, and results) is available in the archived project documentation.

A summary of the discharges is provided in Table 10. Frequency Discharge-Drainage Area Curves used to develop the hydrologic models may also be shown in Figure 7 for selected flooding sources. A summary of stillwater elevations developed for non-coastal flooding sources is provided in Table 11. Stream gage information is provided in Table 12.

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Antioch Church Tributary	At mouth	0.29	*	*	*	225	*
Antioch Church Tributary	100 feet U/S of Paris Pike	0.27	*	*	*	217	*
Antioch Church Tributary	710 feet U/S of Paris Pike	0.23	*	*	*	194	*
Antioch Church Tributary	1150 feet U/S of Paris Pike	0.19	*	*	*	166	*
Antioch Church Tributary	1440 feet U/S of Paris Pike	0.18	*	*	*	162	*
Antioch Church Tributary	1860 feet U/S of Paris Pike	0.16	*	*	*	151	*
Antioch Church Tributary	2140 feet U/S of Paris Pike	0.12	*	*	*	119	*
Antioch Church Tributary	2470 feet U/S of Paris Pike	0.11	*	*	*	115	*
Armstrong Mill Road Tributary	At mouth	0.46	107	*	201	260	465
Armstrong Mill Road Tributary	At Squires Road	0.31	93	*	175	225	405
Avon Tributary	At mouth	21.26	*	*	*	4,558	*
Avon Tributary	At Bebopper Way	20.68	*	*	*	4,471	*
Avon Tributary	2040 feet D/S of Bryan Station Road	20.49	*	*	*	4,441	*
Avon Tributary	At confluence with Howard Grove Tributary	17.51	*	*	*	3,980	*
Avon Tributary	1720 feet U/S of confluence with Howard Grove Tributary	17.42	*	*	*	3,965	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Avon Tributary	5120 feet U/S of confluence with Howard Grove Tributary	16.74	*	*	*	3,856	*
Avon Tributary	2520 feet D/S of Walnut Station Road	16.5	*	*	*	3,817	*
Avon Tributary	At Walnut Station Road	16.17	*	*	*	3,764	*
Avon Tributary	At Muir Station Road	15.93	*	*	*	3,726	*
Avon Tributary	At confluence with Avon Tributary 1	13.26	*	*	*	3,276	*
Avon Tributary	1910 feet U/S of confluence with Avon Tributary 1	12.65	*	*	*	12.65	*
Avon Tributary	2290 feet D/S of confluence with Interchange Tributary	12.46	*	*	*	3,170	*
Avon Tributary	At confluence with Interchange Tributary	7.47	*	*	*	2,194	*
Avon Tributary	At confluence with Avon Tributary 2	6.43	*	*	*	1,975	*
Avon Tributary	At Houston Antioch Road	6.39	*	*	*	1,967	*
Avon Tributary	1100 feet U/S of Houston Antioch Road	6.3	*	*	*	1,948	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Avon Tributary	100 feet U/S of Briar Hill Road	5.73	*	*	*	1,823	*
Avon Tributary	950 feet D/S of confluence with Avon Tributary 3	5.46	*	*	*	1,763	*
Avon Tributary	At confluence with Avon Tributary 3	4.46	*	*	*	1,530	*
Avon Tributary	1660 feet U/S of confluence with Avon Tributary 3	4.42	*	*	*	1,520	*
Avon Tributary	3730 feet U/S of confluence with Avon Tributary 3	3.8	*	*	*	1,367	*
Avon Tributary	4850 feet U/S of confluence with Avon Tributary 3	3.01	*	*	*	1,161	*
Avon Tributary	4920 feet D/S of Hedger Lane	2.47	*	*	*	1,012	*
Avon Tributary	2230 feet D/S of Hedger Lane	2.01	*	*	*	877	*
Avon Tributary	At Hedger Ln	1.89	*	*	*	840	*
Avon Tributary	1170 feet U/S of Hedger Lane	1.77	*	*	*	801	*
Avon Tributary	2520 feet U/S of Hedger Lane	1.2	*	*	*	612	*
Avon Tributary	2970 feet D/S of Rockwell Road	1.17	*	*	*	599	*
Avon Tributary	2190 feet D/S of Rockwell Road	0.41	*	*	*	286	*
Avon Tributary	1370 feet D/S of Rockwell Road	0.32	*	*	*	242	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Avon Tributary	At I-64 E	0.19	*	*	*	167	*
Avon Tributary 1	At mouth	1.62	*	*	*	754	*
Avon Tributary 2	At mouth	1.02	*	*	*	546	*
Avon Tributary 3	At mouth	1	*	*	*	538	*
Baughman Fork	At mouth	9.42	*	*	*	4,652	*
Baughman Fork	At confluence with Baughman Fork Tributary 1	7.29	*	*	*	3,946	*
Baughman Fork	At confluence with Baughman Fork Tributary 2	6.11	*	*	*	3,521	*
Baughman Fork	1550 feet U/S of confluence with Baughman Fork Tributary 2	5.54	*	*	*	3,306	*
Baughman Fork	530 feet D/S of confluence with Baughman Fork Tributary 3	4.65	*	*	*	2,955	*
Baughman Fork	At confluence with Baughman Fork Tributary 3	2.3	*	*	*	1,881	*
Baughman Fork	3110 feet U/S of N Cleveland Road	1.81	*	*	*	1,612	*
Baughman Fork	1.85 miles U/S of N Cleveland Road	1.42	*	*	*	1,381	*
Baughman Fork	2.4 miles U/S of N Cleveland Road	1.15	*	*	*	1,205	*
Baughman Fork	2.5 miles U/S of N Cleveland Road	0.67	*	*	*	848	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Baughman Fork	2.92 miles U/S of N Cleveland Road	0.51	*	*	*	710	*
Baughman Fork	3.0 miles U/S of N Cleveland Road	0.14	*	*	*	312	*
Baughman Fork	3.2 miles U/S of N Cleveland Road	0.11	*	*	*	268	*
Baughman Fork Tributary 1	At mouth	1.16	*	*	*	1,209	*
Baughman Fork Tributary 1	2360 feet D/S of Gentry Road	0.98	*	*	*	1,086	*
Baughman Fork Tributary 1	180 feet U/S of Gentry Road	0.76	*	*	*	922	*
Baughman Fork Tributary 1	580 feet U/S of N Cleveland Road	0.58	*	*	*	774	*
Baughman Fork Tributary 1	1130 feet U/S of N Cleveland Road	0.38	*	*	*	594	*
Baughman Fork Tributary 1	230 feet U/S of Athens Boonesboro Road	0.23	*	*	*	426	*
Baughman Fork Tributary 1	1750 feet U/S of Athens Boonesboro Road	0.16	*	*	*	344	*
Baughman Fork Tributary 1	3840 feet U/S of Athens Boonesboro Road	0.07	*	*	*	196	*
Baughman Fork Tributary 3	At mouth	2.33	*	*	*	1,897	*
Baughman Fork Tributary 3	At confluence with Baughman Fork Tributary 3.1	1.63	*	*	*	1,504	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Baughman Fork Tributary 3	At Cutters Hill Ct	1.35	*	*	*	1,333	*
Baughman Fork Tributary 3	3470 feet U/S of Cutters Hill Ct	1.09	*	*	*	1,160	*
Baughman Fork Tributary 3.1	At mouth	0.66	*	*	*	843	*
Baughman Fork Tributary 3.1	At confluence with Baughman Fork Tributary 3.1.1	0.18	*	*	*	369	*
Baughman Fork Tributary 3.1	3240 feet U/S of confluence with Baughman Fork Tributary 3.1.1	0.1	*	*	*	247	*
Baughman Fork Tributary 3.1.1	At mouth	0.48	*	*	*	682	*
Baughman Fork Tributary 3.1.1	4310 feet U/S of confluence with Baughman Fork Tributary 3.1	0.35	*	*	*	563	*
Beacon Hill Tributary	At mouth	0.54	690	*	930	1,040	1,290
Bethel Road Tributary	At mouth	2.77	*	*	*	1,096	*
Bethel Road Tributary	1720 feet U/S of Leestown Road	2.33	*	*	*	971	*
Bethel Road Tributary	2180 feet U/S of Leestown Road	2.07	*	*	*	893	*
Bethel Road Tributary	1450 feet D/S of Bethel Road	1.66	*	*	*	768	*
Bethel Road Tributary	900 feet D/S of Bethel Road	0.69	*	*	*	416	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Bethel Road Tributary	1150 feet D/S of N Yarnallton Pike	0.45	*	*	*	310	*
Bethel Road Tributary	550 feet U/S of N Yarnallton Pike	0.26	*	*	*	208	*
Bethel Road Tributary	3890 feet U/S of N Yarnallton Pike	0.04	*	*	*	58	*
Big Elm Creek	At mouth	1.06[1]	980	*	1,340	1,490	1,830
Big Tributary	At mouth	3.34	*	*	*	1,251	*
Big Tributary	4301 feet U/S of confluence with David Fork	3.05	*	*	*	1,173	*
Big Tributary	5070 feet D/S of Winchester Road	2.76	*	*	*	1,093	*
Big Tributary	3430 feet D/S of Winchester Road	2.45	*	*	*	1,006	*
Big Tributary	2440 feet D/S of Winchester Road	2.24	*	*	*	945	*
Big Tributary	1440 feet D/S of Winchester Road	1.96	*	*	*	860	*
Big Tributary	At Winchester Road	1.66	*	*	*	768	*
Big Tributary	760 feet U/S of Winchester Road	1.55	*	*	*	732	*
Big Tributary	At Elam Village Drive	1.39	*	*	*	678	*
Big Tributary	630 feet U/S of Elam Village Drive	1.1	*	*	*	574	*
BM897 Tributary	At mouth	0.64	*	*	*	394	*

[1] All flow confluences at mile 0.13; however, 0.26 is considered ineffective inflow to Vaughn's Branch
*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
BM897 Tributary	1090 feet U/S of confluence with North Elkhorn Creek	0.6	*	*	*	376	*
BM897 Tributary	1780 feet U/S of confluence with North Elkhorn Creek	0.57	*	*	*	362	*
BM897 Tributary	2800 feet U/S of confluence with North Elkhorn Creek	0.55	*	*	*	353	*
BM897 Tributary	3020 feet D/S of Newtown Pike	0.52	*	*	*	340	*
BM897 Tributary	2250 feet D/S of Newtown Pike	0.32	*	*	*	243	*
BM897 Tributary	1690 feet D/S of Newtown Pike	0.3	*	*	*	234	*
BM897 Tributary	960 feet D/S of Newtown Pike	0.26	*	*	*	209	*
BM897 Tributary	520 feet D/S of Newtown Pike	0.22	*	*	*	185	*
BM897 Tributary	At Newtown Pike	0.19	*	*	*	166	*
BM897 Tributary	490 feet U/S of Newtown Pike	0.15	*	*	*	143	*
BM897 Tributary	790 feet U/S of Newtown Pike	0.11	*	*	*	117	*
BM897 Tributary	1080 feet U/S of Newtown Pike	0.11	*	*	*	113	*
BM907-39 Tributary	At mouth	0.16	*	*	*	149	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
BM907-39 Tributary	2620 feet U/S of confluence with U.K. Agriculture Station Branch	0.08	*	*	*	93	*
BM907-39 Tributary	5010 feet U/S of confluence with U.K. Agriculture Station Branch	0.01	*	*	*	23	*
Boggs Fork	At mouth	6.07	*	*	*	3,508	*
Boggs Fork	1440 feet D/S of Mccalls Mill Road	5.64	*	*	*	3,345	*
Boggs Fork	3610 feel U/S of Mccalls Mill Road	4.46	*	*	*	2,876	*
Boggs Fork	440 feet U/S of S Cleveland Road	3.51	*	*	*	2,467	*
Boggs Fork	At confluence with Boggs Fork Tributary 2	2.77	*	*	*	2,118	*
Boggs Fork	1850 feet D/S of I-75 N	2.68	*	*	*	2,073	*
Boggs Fork	360 feet U/S of I-75 S	2.07	*	*	*	1,757	*
Boggs Fork	4860 feet U/S of I-75 S	1.67	*	*	*	1,528	*
Boggs Fork	1.03 miles U/S of I-75 S	1.12	*	*	*	1,181	*
Boggs Fork	1.32 miles U/S of I-75 S	1.07	*	*	*	1,150	*
Boggs Fork	1.43 miles U/S of I-75 S	0.68	*	*	*	857	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Boggs Fork	1.78 miles U/S of I-75 S	0.54	*	*	*	736	*
Boggs Fork	1.89 miles U/S of I-75 S	0.22	*	*	*	417	*
Boggs Fork	2.16 miles U/S of I-75 S	0.1	*	*	*	244	*
Boggs Fork Tributary 2	At mouth	0.55	*	*	*	750	*
Boggs Fork Tributary 2	2260 feet U/S of confluence with Boggs Fork	0.5	*	*	*	703	*
Boone Creek	At mouth	42.77	*	*	*	12,309	*
Boone Creek	570 feet D/S of confluence with Boggs Fork	40.4	*	*	*	11,866	*
Boone Creek	At confluence with Boggs Fork	34.29	*	*	*	10,679	*
Boone Creek	500 feet D/S of confluence with Baughman Fork	31.53	*	*	*	10,117	*
Boone Creek	At confluence with Baughman Fork	22.1	*	*	*	8,051	*
Boone Creek	At Sulphur Well Road	17.85	*	*	*	7,018	*
Boone Creek	100 feet U/S of Sulphur Well Road	13.26	*	*	*	5,796	*
Boone Creek	510 feet U/S of confluence with Jones Creek	7	*	*	*	3,845	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Boone Creek	520 feet D/S of confluence with Mary Reynolds Creek	5.51	*	*	*	3,295	*
Boone Creek	At confluence with Mary Reynolds Creek	3.7	*	*	*	2,553	*
Boone Creek	510 feet D/S of confluence with Boone Creek Tributary 1	3.69	*	*	*	2,549	*
Boone Creek	At confluence with Boone Creek Tributary 1	2.06	*	*	*	1,749	*
Boone Creek	500 feet D/S of confluence with Boone Creek Tributary 2	1.94	*	*	*	1,683	*
Boone Creek	At confluence with Boone Creek Tributary 2	1.11	*	*	*	1,173	*
Boone Creek	1920 feet U/S of confluence with Boone Creek Tributary 2	1.02	*	*	*	1,114	*
Boone Creek Tributary 1	At mouth	0.8	*	*	*	955	*
Boone Creek Tributary 1	1330 feet U/S of confluence with Boone Creek	0.71	*	*	*	881	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Boone Creek Tributary 1	3030 feet U/S of confluence with Boone Creek	0.59	*	*	*	786	*
Boone Creek Tributary 2	At mouth	1.63	*	*	*	1,504	*
Boone Creek Tributary 2	3330 feet U/S of confluence with Boone Creek	1.32	*	*	*	1,312	*
Boone Creek Tributary 2	1.14 miles U/S of confluence with Boone Creek	1.02	*	*	*	1,117	*
Bowman Mill Tributary	At confluence with South Elkhorn Creek	0.28	195	*	340	450	500
Bracktown Branch	At mouth	5.72/0.92[2]	920	*	1,290	1,470	1,800
Brighton Tributary	At mouth	0.74	381	*	571	671	810
Brighton Tributary	1730 feet U/S of confluence with North Elkhorn Creek	0.71	373	*	555	651	782
Brighton Tributary	2820 feet U/S of confluence with North Elkhorn Creek	0.60	301	*	435	507	605

[2] Total drainage area/noncontributing portion of total drainage area
*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Brighton Tributary	3480 feet U/S of confluence with North Elkhorn Creek	0.54	279	*	385	445	526
Brighton Tributary	4360 feet U/S of confluence with North Elkhorn Creek	0.47	247	*	317	354	406
Brighton Tributary	5960 feet U/S of confluence with North Elkhorn Creek	0.38	220	*	273	311	344
Brighton Tributary	6350 feet U/S of confluence with North Elkhorn Creek	0.35	205	*	263	263	328
Brighton Tributary	6940 feet U/S of confluence with North Elkhorn Creek	0.33	204	*	302	396	526
Brighton Tributary	7090 feet U/S of confluence with North Elkhorn Creek	0.27	358	*	478	538	619
Bryan Station Spring Tributary	At mouth	1.58	*	*	*	740	*
Bryan Station Spring Tributary	990 feet D/S of confluence with Bryan Station Spring Tributary 1	1.3	*	*	*	646	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Bryan Station Spring Tributary	At confluence with Bryan Station Spring Tributary 1	0.88	*	*	*	491	*
Bryan Station Spring Tributary	1850 feet U/S of confluence with Bryan Station Spring Tributary 1	0.73	*	*	*	432	*
Bryan Station Spring Tributary	3450 feet U/S of confluence with Bryan Station Spring Tributary 1	0.56	*	*	*	360	*
Bryan Station Spring Tributary	4070 feet U/S of confluence with Bryan Station Spring Tributary 1	0.3	*	*	*	234	*
Bryan Station Spring Tributary	5240 feet U/S of confluence with Bryan Station Spring Tributary 1	0.07	*	*	*	80	*
Bryan Station Spring Tributary 1	At mouth	0.37	*	*	*	269	*
Bryan Station Spring Tributary 1	830 feet U/S of confluence with Bryan Station Spring Tributary	0.35	*	*	*	260	*
Bryan Station Spring Tributary 1	1650 feet U/S of confluence with Bryan Station Spring Tributary	0.18	*	*	*	160	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Bryan Station Spring Tributary 1	2780 feet U/S of confluence with Bryan Station Spring Tributary	0.12	*	*	*	123	*
Bryant Tributary	At confluence with North Elkhorn Creek	0.57	312	*	413	457	511
Bryant Tributary	Just U/S of KY-1425	0.49	298	*	420	486	581
Bryant Tributary	50 feet U/S of Polo Club Boulevard	0.39	319	*	448	520	616
Bryant Tributary	960 feet U/S of Polo Club Boulevard	0.35	290	*	416	479	566
Cadentown Branch	At confluence of Todds Road Tributary	1.08	648	*	990	1,168	1,532
Cadentown Branch	At confluence of Cadentown Branch East	0.25	245	*	366	428	555
Cadentown Branch East	At mouth	0.44	406	*	622	735	967
Cane Run	At Kentucky Horse Park Road	22.98/1.17[3]	2,490	*	3,700	4,220	5,700
Cane Run	At I-75 Tributary	7.71	2,836	*	4,082	4,715	5,992
Cane Run	Approx. 4,000 feet upstream of I-75	5.76	2,758	*	3,959	4,570	5,799

[3] Total drainage area/noncontributing portion of total drainage area
*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Cane Run	At confluence of Oakwood Park Tributary	4.43	2,660	*	3,818	4,406	5,590
Cane Run	At Newton Road	4.10	2,738	*	3,926	4,529	5,742
Cane Run	At North Broadway	0.95	2,738	*	3,926	4,529	5,742
Cave Creek	At mouth	4.48	915	*	1,583	1,951	2,732
Cave Creek	At confluence of Parker's Mill Tributary	2.85	629	*	1,124	1,398	1,985
Cave Creek	Approx. 2,300 feet upstream of Bowman Mill Road	2.16	716	*	1,287	1,601	2,274
Cave Creek	At confluence of Dogwood Tributary	0.39	160	*	303	381	549
Cave Hill Tributary	At confluence with Bowman Mill Tributary	0.17	70	*	110	130	170
Cemetery Tributary	At mouth	0.47	*	*	*	319	*
Cemetery Tributary	540 feet U/S of confluence with Lemons Mill Road Tributary	0.46	*	*	*	312	*
Cemetery Tributary	1020 feet U/S of confluence with Lemons Mill Road Tributary	0.45	*	*	*	306	*
Cemetery Tributary	1130 feet U/S of confluence with Lemons Mill Road Tributary	0.33	*	*	*	246	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Cemetery Tributary	1130 feet U/S of confluence with Lemons Mill Road Tributary	0.25	*	*	*	206	*
Cemetery Tributary	1980 feet U/S of confluence with Lemons Mill Road Tributary	0.24	*	*	*	201	*
Cemetery Tributary	2260 feet U/S of confluence with Lemons Mill Road Tributary	0.17	*	*	*	153	*
Colonial Drive Tributary	At mouth	0.39	560	*	760	850	1,050
David Fork Tributary	At mouth	7.66	*	*	*	2,234	*
David Fork Tributary	2290 feet D/S of I-64 W	7.02	*	*	*	2,101	*
David Fork Tributary	At I-64 E	6.76	*	*	*	2,045	*
David Fork Tributary	At confluence with Big Tributary	2.99	*	*	*	1,158	*
David Fork Tributary	2750 feet U/S of confluence with Big Tributary	2.69	*	*	*	1,074	*
David Fork Tributary	1520 feet D/S of Royster Road	2.38	*	*	*	986	*
David Fork Tributary	At Royster Road	2.06	*	*	*	893	*
David Fork Tributary	1940 feet U/S of Royster Road	1.57	*	*	*	739	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
David Fork Tributary	3550 feet U/S of Royster Road	1.22	*	*	*	618	*
David Fork Tributary	3670 feet D/S of confluence with David Fork Tributary 1	1.06	*	*	*	561	*
David Fork Tributary	2090 feet D/S of confluence with David Fork Tributary 1	0.64	*	*	*	396	*
David Fork Tributary	At confluence with David Fork Tributary 1	0.31	*	*	*	236	*
David Fork Tributary	830 feet U/S of confluence with David Fork Tributary 1	0.18	*	*	*	165	*
David Fork Tributary	At N Cleveland Road	0.14	*	*	*	139	*
David Fork Tributary	530 feet U/S of N Cleveland Road	0.09	*	*	*	97	*
David Fork Tributary 1	At mouth	0.17	*	*	*	153	*
David Fork Tributary 1	1230 feet D/S of N Cleveland Road	0.10	*	*	*	104	*
David Fork Tributary 1	At N Cleveland Road	0.04	*	*	*	61	*
Delong Road Tributary	At mouth	1.09	178	*	335	420	740
Delong Road Tributary	At Armstrong Mill Road	0.81	145	*	270	345	615

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Dixie Tributary	1820 feet D/S of county boundary	4.29	*	*	*	1,490	*
Dixie Tributary	450 feet D/S of Old Iron Works Road	3.87	*	*	*	1,384	*
Dixie Tributary	At confluence with Kearney Tributary	2.01	*	*	*	875	*
Dixie Tributary	At Iron Works Pike	1.9	*	*	*	842	*
Dixie Tributary	740 feet U/S of Georgetown Road	1.59	*	*	*	744	*
Dixie Tributary	3980 feet U/S of Georgetown Road	1.04	*	*	*	551	*
Dixie Tributary	4570 feet U/S of Georgetown Road	0.58	*	*	*	367	*
Dixie Tributary	1.39 miles U/S of Georgetown Road	0.35	*	*	*	258	*
Dixie Tributary	1.63 miles U/S of Georgetown Road	0.11	*	*	*	115	*
Dogwood Tributary	At mouth	0.29	118	*	236	301	441
Douglas Park Tributary	At confluence with Cane Run	0.74	550	*	853	1,013	1,358
Douglas Park Tributary	At confluence of unnamed Tributary	0.53	514	*	770	903	1,194
Douglas Park Tributary	At Oakwood Park	0.42	350	*	509	592	766
Douglas Park Tributary	At Nandino Boulevard	0.35	329	*	481	558	723
Douglas Park Tributary	At New Circle Road	0.12	207	*	300	347	450
Drive-in Tributary	At mouth	5.12	797	*	1,413	1,750	2,469

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Drive-in Tributary	At confluence of unnamed Tributary	3.92	735	*	1,311	1,627	2,303
East Hickman Creek	Just downstream of Tates Creek Road	19.45	2797.3	3796.1	4704.8	5909.5	8454.7
East Hickman Creek[4]	Just upstream of Tates Creek Road	18.95/0.20[5]	1,540	*	2,420	2,930	4,300
East Hickman Creek	At U.S. Route 25	4.60	490	*	870	980	1,240
East I-75 Tributary	At mouth	0.59	361	*	473	514	565
East I-75 Tributary	100 feet U/S of confluence with I-75 Tributary	0.52	343	*	459	517	597
East I-75 Tributary	1070 feet U/S of confluence with I-75 Tributary	0.44	270	*	351	392	445
East I-75 Tributary	2380 feet U/S of confluence with I-75 Tributary	0.35	191	*	232	253	278
East I-75 Tributary	3390 feet U/S of confluence with I-75 Tributary	0.30	234	*	339	395	472
East I-75 Tributary	4100 feet U/S of confluence with I-75 Tributary	0.13	124	*	183	215	259

[4] Flow is modified by Lexington reservoir No. 4
[5] Total drainage area/noncontributing portion of drainage area
*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
East I-75 Tributary	5200 feet U/S of confluence with I-75 Tributary	0.59	361	*	473	514	565
Eastland Park Tributary	At mouth	2.68	1,938	*	2,778	3,206	4,069
Eastland Park Tributary	At Kilkenny Drive	0.60	760	*	1,030	1,140	1,420
Five Pond Tributary	At mouth	0.33	355	*	475	602	649
Five Pond Tributary	At Sunningdale Drive	0.12	117	*	138	158	166
Flintridge Drive Tributary	At mouth	0.12	194	*	270	308	383
Gardenside Tributary	At mouth	1.63/0.18[6]	1,370	*	1,850	2,030	2,530
Goose Creek	250 feet D/S of county boundary	12.47	*	*	*	3,140	*
Goose Creek	At confluence with Goose Creek Tributary 1	10.84	*	*	*	2,847	*
Goose Creek	3620 feet U/S of confluence with Goose Creek Tributary 1	9.8	*	*	*	2,652	*
Goose Creek	400 feet D/S of confluence with Harps Fork Creek	8	*	*	*	2,302	*
Goose Creek	At confluence with Harps Fork Creek	5.18	*	*	*	1,698	*

[6] Total Drainage area/noncontributing portion of total drainage area
*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Goose Creek	120 feet D/S of Long Valley Lane	1,698	*	*	*	1,467	*
Goose Creek	At confluence with Jimtown Tributary	1.03	*	*	*	549	*
Goose Creek	1620 feet U/S of confluence with Jimtown Tributary	0.87	*	*	*	486	*
Goose Creek	1350 feet D/S of Greenwich Pike	0.58	*	*	*	367	*
Goose Creek	850 feet U/S of Greenwich Pike	0.29	*	*	*	227	*
Goose Creek	3090 feet U/S of Greenwich Pike	0.11	*	*	*	113	*
Greendale Road Tributary	At mouth	0.25	560	*	740	835	1,020
Greenwich Road Tributary	At mouth	0.23	*	*	*	191	*
Greenwich Road Tributary	390 feet U/S of confluence with Harp Innis Road Tributary	0.22	*	*	*	185	*
Greenwich Road Tributary	750 feet U/S of confluence with Harp Innis Road Tributary	0.21	*	*	*	183	*
Greenwich Road Tributary	1220 feet U/S of confluence with Harp Innis Road Tributary	0.18	*	*	*	164	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Greenwich Road Tributary	1700 feet U/S of confluence with Harp Innis Road Tributary	0.18	*	*	*	161	*
Greenwich Road Tributary	2620 feet U/S of confluence with Harp Innis Road Tributary	0.09	*	*	*	100	*
Greenwich Road Tributary	2850 feet U/S of confluence with Harp Innis Road Tributary	0.08	*	*	*	95	*
Harp Innis Road Tributary	At mouth	3.12	*	*	*	1,193	*
Harp Innis Road Tributary	1330 feet U/S of confluence with North Elkhorn Creek	3.07	*	*	*	1,177	*
Harp Innis Road Tributary	2510 feet U/S of confluence with North Elkhorn Creek	2.96	*	*	*	1,148	*
Harp Innis Road Tributary	3140 feet U/S of confluence with North Elkhorn Creek	2.78	*	*	*	1,099	*
Harp Innis Road Tributary	3370 feet D/S of Russell Cave Road	2.69	*	*	*	1,076	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Harp Innis Road Tributary	2530 feet D/S of Russell Cave Road	2.66	*	*	*	1,066	*
Harp Innis Road Tributary	2530 feet D/S of Russell Cave Road	2.57	*	*	*	1,042	*
Harp Innis Road Tributary	870 feet D/S of Russell Cave Road	2.48	*	*	*	1,014	*
Harp Innis Road Tributary	At Russell Cave Road	2.28	*	*	*	957	*
Harp Innis Road Tributary	530 feet U/S of Russell Cave Road	1.91	*	*	*	847	*
Harp Innis Road Tributary	1030 feet U/S of Russell Cave Road	1.9	*	*	*	843	*
Harp Innis Road Tributary	1050 feet U/S of confluence with Greenwich Road Tributary	1.87	*	*	*	833	*
Harp Innis Road Tributary	450 feet U/S of confluence with Greenwich Road Tributary	1.84	*	*	*	825	*
Harp Innis Road Tributary	At Greenwich Pike	1.59	*	*	*	745	*
Harp Innis Road Tributary	1000 feet U/S of Greenwich Pike	1.5	*	*	*	715	*
Harp Innis Road Tributary	1520 feet U/S of Greenwich Pike	1.22	*	*	*	617	*
Harp Innis Road Tributary	1960 feet U/S of Greenwich Pike	1.07	*	*	*	565	*
Harp Innis Road Tributary	2640 feet U/S of Greenwich Pike	1.03	*	*	*	550	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Harp Innis Road Tributary	3380 feet U/S of Greenwich Pike	0.84	*	*	*	478	*
Harp Innis Road Tributary	3930 feet U/S of Greenwich Pike	0.7	*	*	*	417	*
Harp Innis Road Tributary	4700 feet U/S of Greenwich Pike	0.65	*	*	*	398	*
Harp Innis Road Tributary	1.00 miles U/S of Greenwich Pike	0.45	*	*	*	307	*
Harp Innis Road Tributary	1.12 miles U/S of Greenwich Pike	0.42	*	*	*	292	*
Harp Innis Road Tributary	1.24 miles U/S of Greenwich Pike	0.38	*	*	*	274	*
Harp Innis Road Tributary	1.33 miles U/S of Greenwich Pike	0.37	*	*	*	268	*
Harp Innis Road Tributary	1.44 miles U/S of Greenwich Pike	0.26	*	*	*	208	*
Harp Innis Road Tributary	1.54 miles U/S of Greenwich Pike	0.12	*	*	*	125	*
Harp Innis Road Tributary	1.62 miles U/S of Greenwich Pike	0.11	*	*	*	115	*
Harp Innis Road Tributary	1.71 miles U/S of Greenwich Pike	0.08	*	*	*	91	*
Heliport Tributary	At mouth	1.5	*	*	*	713	*
Heliport Tributary	940 feet U/S of confluence with Highway 68-27 Tributary	1.47	*	*	*	703	*
Heliport Tributary	At Iron Works Pike	1.36	*	*	*	667	*
Heliport Tributary	1110 feet U/S of Iron Works Pike	1.04	*	*	*	553	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Heliport Tributary	2280 feet U/S of Iron Works Pike	0.97	*	*	*	528	*
Heliport Tributary	2970 feet U/S of Iron Works Pike	0.93	*	*	*	513	*
Heliport Tributary	3600 feet U/S of Iron Works Pike	0.6	*	*	*	378	*
Heliport Tributary	4860 feet U/S of Iron Works Pike	0.52	*	*	*	340	*
Heliport Tributary	1.04 miles U/S of Iron Works Pike	0.4	*	*	*	286	*
Heliport Tributary	1.23 miles U/S of Iron Works Pike	0.18	*	*	*	164	*
Heliport Tributary	1.42 miles U/S of Iron Works Pike	0.06	*	*	*	74	*
Higbee Mill Road Tributary	At mouth	0.81	510	*	804	959	1,277
Highway 68-27 Tributary	At mouth	3.38	*	*	*	1,261	*
Highway 68-27 Tributary	870 feet U/S of confluence with North Elkhorn Creek	3.35	*	*	*	1,254	*
Highway 68-27 Tributary	At confluence with Heliport Tributary	1.79	*	*	*	808	*
Highway 68-27 Tributary	At Iron Works Pike	1.76	*	*	*	800	*
Highway 68-27 Tributary	530 feet D/S of Paris Pike NC	1.59	*	*	*	745	*
Highway 68-27 Tributary	At Paris Pike	1.55	*	*	*	732	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Highway 68-27 Tributary	At confluence with North Branch	1.3	*	*	*	646	*
Highway 68-27 Tributary	At Johnston Road	1.21	*	*	*	615	*
Highway 68-27 Tributary	1800 feet D/S of Paris Pike	0.99	*	*	*	535	*
Highway 68-27 Tributary	930 feet D/S of Paris Pike	0.87	*	*	*	488	*
Highway 68-27 Tributary	Just D/S of confluence with unnamed tributary at Paris Pike	0.78	*	*	*	451	*
Highway 68-27 Tributary	60 feet U/S of Paris Pike	0.25	*	*	*	201	*
Highway 68-27 Tributary	420 feet U/S of Paris Pike	0.23	*	*	*	193	*
Highway 68-27 Tributary	840 feet U/S of Paris Pike	0.22	*	*	*	187	*
Highway 68-27 Tributary	1270 feet D/S of The Grange Lane	0.2	*	*	*	173	*
Highway 68-27 Tributary	920 feet D/S of The Grange Lane	0.1	*	*	*	105	*
Highway 68-27 Tributary	280 feet D/S of The Grange Lane	0.07	*	*	*	84	*
Highway 68-27 Tributary	At The Grange Lane	0.06	*	*	*	77	*
Highway 922 Tributary North Fork	At mouth	0.61	*	*	*	379	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Highway 922 Tributary North Fork	At confluence with Highway 922 Tributary South Fork	0.28	*	*	*	222	*
Highway 922 Tributary North Fork	3400 feet U/S of confluence with Highway 922 Tributary South Fork	0.16	*	*	*	151	*
Highway 922 Tributary North Fork	1.0 miles U/S of confluence with Highway 922 Tributary South Fork	0.03	*	*	*	48	*
Highway 922 Tributary South Fork	At mouth	0.31	*	*	*	239	*
Highway 922 Tributary South Fork	3880 feet U/S of confluence with Highway 922 Tributary North Fork	0.16	*	*	*	150	*
Highway 922 Tributary South Fork	1.1 miles U/S of confluence with Highway 922 Tributary North Fork	0.05	*	*	*	66	*
Howard Grove Tributary	At mouth	2.5	*	*	*	1,021	*
Howard Grove Tributary	3380 feet D/S of Castle Rock Way	2.09	*	*	*	901	*
Howard Grove Tributary	1490 feet D/S of Castle Rock Way	1.89	*	*	*	839	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Howard Grove Tributary	At Castle Rock Way	1.65	*	*	*	763	*
Howard Grove Tributary	670 feet U/S of Castle Rock Way	1.4	*	*	*	679	*
Howard Grove Tributary	770 feet D/S of downstream crossing of Hidden Lake Lane	1.19	*	*	*	609	*
Howard Grove Tributary	80 feet D/S of downstream crossing of Hidden Lake Lane	0.9	*	*	*	498	*
Howard Grove Tributary	50 feet U/S of downstream crossing of Hidden Lake Lane	0.87	*	*	*	489	*
Howard Grove Tributary	1000 feet U/S of downstream crossing of Hidden Lake Lane	0.59	*	*	*	372	*
Howard Grove Tributary	30 feet U/S of upstream crossing of Hidden Lake Lane	0.51	*	*	*	338	*
Huffman Mill Road Tributary	At mouth	0.81	*	*	*	464	*
Huffman Mill Road Tributary	970 feet U/S of confluence with North Elkhorn Creek	0.78	*	*	*	451	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Huffman Mill Road Tributary	270 feet D/S of confluence with North Branch	0.74	*	*	*	436	*
Huffman Mill Road Tributary	At confluence with North Branch	0.42	*	*	*	293	*
Huffman Mill Road Tributary	520 feet U/S of confluence with North Branch	0.4	*	*	*	284	*
Huffman Mill Road Tributary	1140 feet U/S of confluence with North Branch	0.37	*	*	*	268	*
Huffman Mill Road Tributary	1830 feet U/S of confluence with North Branch	0.35	*	*	*	257	*
Huffman Mill Road Tributary	1980 feet D/S of Old Lemons Mill Road	0.32	*	*	*	243	*
Huffman Mill Road Tributary	1410 feet D/S of Old Lemons Mill Road	0.3	*	*	*	232	*
Huffman Mill Road Tributary	860 feet D/S of Old Lemons Mill Road	0.28	*	*	*	218	*
Huffman Mill Road Tributary	390 feet D/S of Old Lemons Mill Road	0.26	*	*	*	209	*
Huffman Mill Road Tributary	At Old Lemons Mill Road	0.24	*	*	*	198	*
Huffman Mill Road Tributary	480 feet U/S of Old Lemons Mill Road	0.22	*	*	*	185	*
Huffman Mill Road Tributary	890 feet U/S of Old Lemons Mill Road	0.2	*	*	*	174	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Huffman Mill Road Tributary	1330 feet U/S of Old Lemons Mill Road	0.17	*	*	*	156	*
Huffman Mill Road Tributary	1490 feet U/S of Old Lemons Mill Road	0.16	*	*	*	149	*
Hughes Lane Tributary	At mouth	1.34	*	*	*	661	*
Hughes Lane Tributary	940 feet U/S of confluence with North Elkhorn Creek	1.32	*	*	*	653	*
Hughes Lane Tributary	1760 feet U/S of confluence with North Elkhorn Creek	1.28	*	*	*	640	*
Hughes Lane Tributary	2020 feet D/S of Hughes Lane	1.13	*	*	*	585	*
Hughes Lane Tributary	1480 feet D/S of Hughes Lane	1.11	*	*	*	580	*
Hughes Lane Tributary	790 feet D/S of Hughes Lane	0.8	*	*	*	462	*
Hughes Lane Tributary	At Hughes Lane	0.75	*	*	*	440	*
Hughes Lane Tributary	1000 feet U/S of Hughes Lane	0.56	*	*	*	360	*
Hughes Lane Tributary	1780 feet U/S of Hughes Lane	0.49	*	*	*	327	*
Hughes Lane Tributary	2360 feet U/S of Hughes Lane	0.46	*	*	*	314	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Hughes Lane Tributary	3060 feet U/S of Hughes Lane	0.34	*	*	*	255	*
Hughes Lane Tributary	3500 feet U/S of Hughes Lane	0.31	*	*	*	0.31	*
Hughes Lane Tributary	4140 feet U/S of Hughes Lane	0.31	*	*	*	135	*
Hume Road Tributary	At mouth	1.77/0.04[7]	350	*	600	710	1,120
Hume Road Tributary	At Interstates 64 and 75	0.36/0.04[7]	120	*	260	330	610
I-64 Tributary	At mouth	1.49	*	*	*	711	*
I-64 Tributary	4580 feet U/S of confluence with Cane Run	0.95	*	*	*	518	*
I-75 Tributary	At mouth	5.69/0.01[8]	1,240	*	1,700	1,950	2,580
I-75 Tributary	At Interstate 75	5.66	3,587	*	5,224	6,066	7,771
I-75 Tributary	100 feet U/S of confluence of Eastland Park Tributary	2.84	925	*	1,340	1,510	1,780
I-75 Tributary	Just U/S of Buena Vista Road	2.77	913	*	1,330	1,500	1,760
I-75 Tributary	At U.S. Route 60	2.71	981	*	1,500	1,700	1,890
I-75 Tributary	At Sir Barton Way	1.98	833	*	1,300	1,580	1,950
I-75 Tributary	1960 feet U/S of Sir Barton Way	1.78	720	*	1,150	1,380	1,760

[7] Total drainage area/noncontributing portion of total drainage area
[8] Total drainage area/noncontributing portion of total drainage area
*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
I-75 Tributary	Just U/S of confluence of Pleasant Ridge Church Tributary	0.77	443	*	668	787	1,020
I-75 Tributary	2430 feet U/S of confluence of Pleasant Ridge Church Tributary	0.70	402	*	595	708	911
I-75 Tributary	3060 feet U/S of confluence of Pleasant Ridge Church Tributary	0.59	300	*	480	591	743
I-75 Tributary	Just U/S of confluence of Unnamed Tributary to I-75 Tributary	0.25	145	*	223	266	328
I-75 Tributary	360 feet U/S of confluence of Unnamed Tributary to I-75 Tributary	0.25	175	*	252	292	345
I-75 Tributary	960 feet U/S of confluence of Unnamed Tributary of I-75 Tributary	0.17	101	*	152	178	212
I-75 Tributary	At Star Shoot Parkway	0.15	89	*	133	155	185
I-75 Tributary	340 feet U/S of Star Shoot Parkway	0.14	78	*	122	145	177
I-75 Tributary	1210 feet U/S of Star Shoot Parkway	0.06	37	*	57	67	82
IBM Tributary	At CSX railroad	1.90	1,220	*	1,640	1,820	2,260

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
IBM Tributary	At mouth	1.85	2	*	3,080	3,400	4,260
Idlehour Tributary	At mouth	1.34/0.76[9]	600	*	800	870	1,060
Interchange Tributary	At mouth	4.84	*	*	*	1,619	*
Interchange Tributary	At Briar Hill Road	4.68	*	*	*	1,581	*
Interchange Tributary	2980 feet U/S of Briar Hill Road	3.96	*	*	*	1,407	*
Interchange Tributary	5020 feet U/S of Briar Hill Road	3.79	*	*	*	1,365	*
Interchange Tributary	3670 feet D/S of I-64 W	2.97	*	*	*	1,153	*
Interchange Tributary	2060 feet D/S of I-64 W	2.9	*	*	*	1,132	*
Interchange Tributary	1960 feet D/S of I-64 W	1.88	*	*	*	836	*
Interchange Tributary	At I-64 E	1.4	*	*	*	680	*
Interchange Tributary	1700 feet D/S of Haley Road	1.07	*	*	*	564	*
Interchange Tributary	At Haley Road	0.67	*	*	*	405	*
Interchange Tributary	610 feet U/S of Haley Road	0.55	*	*	*	356	*
Interchange Tributary	1530 feet U/S of Haley Road	0.33	*	*	*	250	*
Interchange Tributary	2830 feet U/S of Haley Road	0.21	*	*	*	181	*

[9] Total drainage area/portion of drainage area included in Lexington reservoir #3

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Interchange Tributary	3510 feet U/S of Haley Road	0.11	*	*	*	115	*
Ironworks Tributary	At mouth	0.98	262	*	461	568	718
Ironworks Tributary	150 feet U/S of confluence with Cane Run	0.96	260	*	458	563	713
Ironworks Tributary	870 feet U/S of confluence with Cane Run	0.94	253	*	447	549	697
Ironworks Tributary	1830 feet U/S of confluence with Cane Run	0.90	238	*	419	516	653
Ironworks Tributary	2230 feet U/S of confluence with Cane Run	0.84	215	*	377	465	590
Ironworks Tributary	3450 feet U/S of confluence with Cane Run	0.63	107	*	195	244	314
Ironworks Tributary	3800 feet U/S of confluence with Cane Run	0.57	85	*	157	198	255
Ironworks Tributary	5140 feet U/S of confluence with Cane Run	0.34	102	*	177	217	326
Ironworks Tributary	5850 feet U/S of confluence with Cane Run	0.17	121	*	197	237	293
Ironworks Tributary	7550 feet U/S of confluence with Cane Run	0.12	85	*	138	165	204

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Ironworks Tributary	8420 feet U/S of confluence with Cane Run	0.08	53	*	86	104	128
Jimtown Tributary	At mouth	3.08	*	*	*	1,180	*
Jimtown Tributary	1820 feet D/S of Greenwich Pike	2.84	*	*	*	1,115	*
Jimtown Tributary	1230 feet D/S of Ferguson Road	2.26	*	*	*	952	*
Jimtown Tributary	700 feet D/S of Ferguson Road	1.78	*	*	*	804	*
Jimtown Tributary	1060 feet U/S of Ferguson Road	1.37	*	*	*	671	*
Jimtown Tributary	2010 feet U/S of Ferguson Road	0.9	*	*	*	5010.63	*
Jimtown Tributary	4880 feet U/S of Ferguson Road	0.63	*	*	*	390	*
Jimtown Tributary	1.03 miles U/S of Ferguson Road	0.27	*	*	*	218	*
Jimtown Tributary	1.35 miles U/S of Ferguson Road	0.16	*	*	*	149	*
Jimtown Tributary	1.63 miles U/S of Ferguson Road	0.05	*	*	*	62	*
Johnson Tributary	At mouth	0.32	*	*	*	245	*
Johnson Tributary	At Bryan Station Road	0.27	*	*	*	215	*
Johnson Tributary	410 feet U/S of Bryan Station Road	0.19	*	*	*	167	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Johnson Tributary	910 feet U/S of Bryan Station Road	0.15	*	*	*	144	*
Johnson Tributary	1770 feet U/S of Bryan Station Road	0.13	*	*	*	129	*
Jones Creek	At mouth	4.60	*	*	*	2,933	*
Jones Creek	1600 feet U/S of confluence with Boone Creek	4.26	*	*	*	2,792	*
Jones Creek	4150 feet D/S of confluence with Jones Creek Tributary 2	3.44	*	*	*	2,435	*
Jones Creek	550 feet D/S of confluence with Jones Creek Tributary 2	2.72	*	*	*	2,095	*
Jones Creek	At confluence with Jones Creek Tributary 2	1.94	*	*	*	1,686	*
Jones Creek	1040 feet D/S of Todds Road	1.70	*	*	*	1,548	*
Jones Creek	780 feet U/S of Todds Road	1.37	*	*	*	1,345	*
Jones Creek	560 feet U/S of N Cleveland Road	1.21	*	*	*	1,241	*
Jones Creek	At confluence with Jones Creek Tributary 1	0.64	*	*	*	823	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Jones Creek	1000 feet U/S of confluence with Jones Creek Tributary 1	0.53	*	*	*	733	*
Jones Creek	2760 feet U/S of confluence with Jones Creek Tributary 1	0.39	*	*	*	601	*
Jones Creek	3330 feet U/S of confluence with Jones Creek Tributary 1	0.19	*	*	*	376	*
Jones Creek	5250 feet U/S of confluence with Jones Creek Tributary 1	0.08	*	*	*	210	*
Jones Creek Tributary 1	At mouth	0.55	*	*	*	748	*
Jones Creek Tributary 1	1450 feet U/S of confluence with Jones Creek	0.48	*	*	*	689	*
Jones Creek Tributary 2	At confluence with Jones Creek	0.73	*	*	*	902	*
Jones Creek Tributary 2	1480 feet U/S of confluence with Jones Creek	0.68	*	*	*	861	*
Jones Creek Tributary 2	2070 feet U/S of confluence with Jones Creek	0.47	*	*	*	681	*
Jones Creek Tributary 2	390 feet D/S of Todds Road	0.4	*	*	*	605	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Jones Creek Tributary 2	At N Cleveland Road	0.2	*	*	*	395	*
Jones Creek Tributary 2	2770 feet U/S of N Cleveland Road	0.09	*	*	*	234	*
Kearney Tributary	At mouth	1.77	*	*	*	801	*
Kearney Tributary	3120 feet U/S of Georgetown Road	1.28	*	*	*	641	*
Kearney Tributary	3600 feet U/S of Georgetown Road	0.74	*	*	*	434	*
Kearney Tributary	4090 feet U/S of Georgetown Road	0.53	*	*	*	345	*
Kearney Tributary	1.53 miles U/S of Georgetown Road	0.26	*	*	*	210	*
Kentucky River	Just upstream of County Boundary	4,101	81,200	*	96,300	101,800	113,500
Kentucky River	Just downstream of U.S. Route 421	4,035	80,100	*	95,100	100,600	112,200
Lansdowne Drive Tributary	At mouth	1.63	*	*	*	758	*
Lemons Mill Road Tributary	At mouth	1.63	*	*	*	757	*
Lemons Mill Road Tributary	360 feet U/S of confluence with North Elkhorn Creek	1.59	*	*	*	745	*
Lemons Mill Road Tributary	1350 feet U/S of confluence with North Elkhorn Creek	1.57	*	*	*	736	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Lemons Mill Road Tributary	2110 feet U/S of confluence with North Elkhorn Creek	1.46	*	*	*	701	*
Lemons Mill Road Tributary	1830 feet D/S of Old Lemons Mill Road	1.39	*	*	*	677	*
Lemons Mill Road Tributary	680 feet D/S of Old Lemons Mill Road	1.31	*	*	*	648	*
Lemons Mill Road Tributary	At Old Lemons Mill Road	1.2	*	*	*	613	*
Lemons Mill Road Tributary	340 feet U/S of Old Lemons Mill Road	0.63	*	*	*	389	*
Lemons Mill Road Tributary	At confluence with Cemetery Tributary	0.62	*	*	*	384	*
Lemons Mill Road Tributary	710 feet U/S of confluence with Cemetery Tributary	0.36	*	*	*	266	*
Lemons Mill Road Tributary	At confluence with Unnamed Tributary to Lemons Mill Road Tributary	0.3	*	*	*	232	*
Lemons Mill Road Tributary	1310 feet U/S of confluence with Unnamed Tributary to Lemons Mill Road Tributary	0.28	*	*	*	221	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Lemons Mill Road Tributary	1910 feet U/S of confluence with Unnamed Tributary to Lemons Mill Road Tributary	0.23	*	*	*	192	*
Lemons Mill Road Tributary	2400 feet U/S of confluence with Unnamed Tributary to Lemons Mill Road Tributary	0.19	*	*	*	171	*
Lemons Mill Road Tributary	3170 feet U/S of confluence with Unnamed Tributary to Lemons Mill Road Tributary	0.13	*	*	*	127	*
Lemons Mill Road Tributary	3720 feet U/S of confluence with Unnamed Tributary to Lemons Mill Road Tributary	0.11	*	*	*	118	*
Lemons Mill Road Tributary	4060 feet U/S of confluence with Unnamed Tributary to Lemons Mill Road Tributary	0.11	*	*	*	118	*
Manchester Branch	At mouth	2.8	*	*	*	1,105	*
Manchester Branch	1390 feet D/S of Elkchester Road	2.53	*	*	*	1,030	*
Manchester Branch	360 feet U/S of Elkchester Road	2.11	*	*	*	908	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Manchester Branch	2220 feet D/S of Rice Road	1.71	*	*	*	782	*
Manchester Branch	580 feet D/S of confluence with Manchester Branch Tributary 1	1.26	*	*	*	633	*
Manchester Branch	At confluence with Manchester Branch Tributary 1	0.2	*	*	*	174	*
Manchester Branch	3270 feet U/S of confluence with Manchester Branch Tributary 1	0.05	*	*	*	68	*
Manchester Branch Tributary 1	At mouth	0.95	*	*	*	518	*
Manchester Branch Tributary 1	3130 feet U/S of confluence with Manchester Branch	0.73	*	*	*	431	*
Mary Reynolds Creek	At mouth	1.68	*	*	*	1,537	*
Mary Reynolds Creek	4290 feet U/S of Todds Road	1.37	*	*	*	1,344	*
Mary Reynolds Creek	4890 feet U/S of Todds Road	0.78	*	*	*	935	*
Mary Reynolds Creek	1.40 miles U/S of Todds Road	0.65	*	*	*	832	*
Mary Reynolds Creek	1.51 miles U/S of Todds Road	0.17	*	*	*	355	*
Mary Reynolds Creek	1.79 miles U/S of Todds Road	0.13	*	*	*	293	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Mattoxtown Tributary	At mouth	2.48	*	*	*	1,016	*
Mattoxtown Tributary	830 feet U/S of confluence with Mt Horeb Road Tributary	2.46	*	*	*	1,009	*
Mattoxtown Tributary	1930 feet U/S of confluence with Mt Horeb Road Tributary	2.39	*	*	*	988	*
Mattoxtown Tributary	2340 feet U/S of confluence with Mt Horeb Road Tributary	2.26	*	*	*	951	*
Mount Horeb Road Tributary	At mouth	4.25	*	*	*	1,479	*
Mount Horeb Road Tributary	At Mt Horeb Pike	4.22	*	*	*	1,472	*
Mount Horeb Road Tributary	1470 feet U/S of Mt Horeb Pike	4.16	*	*	*	1,458	*
Mount Horeb Road Tributary	2650 feet U/S of Mt Horeb Pike	4.02	*	*	*	1,423	*
Mount Horeb Road Tributary	2443 feet D/S of confluence with Mattoxtown Tributary	3.9	*	*	*	1,393	*
Mount Horeb Road Tributary	1470 feet D/S of confluence with Mattoxtown Tributary	3.75	*	*	*	1,356	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Mount Horeb Road Tributary	670 feet D/S of confluence with Mattoxtown Tributary	3.61	*	*	*	1,319	*
Mount Horeb Road Tributary	At confluence with Mattoxtown Tributary	1.11	*	*	*	577	*
Mount Horeb Road Tributary	1020 feet U/S of confluence with Mattoxtown Tributary	0.87	*	*	*	486	*
Mount Horeb Road Tributary	2300 feet U/S of confluence with Mattoxtown Tributary	0.81	*	*	*	465	*
Mount Horeb Road Tributary	2990 feet U/S of confluence with Mattoxtown Tributary	0.74	*	*	*	437	*
Mount Horeb Road Tributary	3750 feet U/S of confluence with Mattoxtown Tributary	0.41	*	*	*	291	*
Mount Horeb Road Tributary	4550 feet U/S of confluence with Mattoxtown Tributary	0.4	*	*	*	281	*
Mount Horeb Road Tributary	5270 feet U/S of confluence with Mattoxtown Tributary	0.36	*	*	*	262	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Muir Station Road Tributary	At confluence with North Elkhorn Creek	2.29	*	*	*	959	*
Muir Station Road Tributary	450 feet U/S of confluence with North Elkhorn Creek	2.28	*	*	*	957	*
Muir Station Road Tributary	2290 feet U/S of confluence with North Elkhorn Creek	2.13	*	*	*	912	*
Muir Station Road Tributary	3120 feet U/S of confluence with North Elkhorn Creek	1.95	*	*	*	859	*
Muir Station Road Tributary	3120 feet U/S of confluence with North Elkhorn Creek	1.93	*	*	*	853	*
Muir Station Road Tributary	3020 feet D/S of Hughes Lane	1.84	*	*	*	824	*
Muir Station Road Tributary	2500 feet D/S of Hughes Lane	1.8	*	*	*	813	*
Muir Station Road Tributary	1940 feet D/S of Hughes Lane	1.35	*	*	*	664	*
Muir Station Road Tributary	1060 feet D/S of Hughes Lane	1.31	*	*	*	651	*
Muir Station Road Tributary	400 feet D/S of Hughes Lane	1.26	*	*	*	634	*
Muir Station Road Tributary	At Hughes Lane	1.26	*	*	*	632	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Muir Station Road Tributary	800 feet U/S of Hughes Lane	1.13	*	*	*	586	*
Muir Station Road Tributary	1210 feet U/S of Hughes Lane	1.08	*	*	*	567	*
Muir Station Road Tributary	1520 feet U/S of Hughes Lane	1.07	*	*	*	564	*
Muir Station Road Tributary	At confluence with Antioch Church Tributary	0.78	*	*	*	452	*
Muir Station Road Tributary	460 feet U/S of confluence with Antioch Church Tributary	0.77	*	*	*	447	*
Muir Station Road Tributary	820 feet U/S of confluence with Antioch Church Tributary	0.68	*	*	*	411	*
Muir Station Road Tributary	1490 feet U/S of confluence with Antioch Church Tributary	0.65	*	*	*	399	*
Muir Station Road Tributary	2000 feet U/S of confluence with Antioch Church Tributary	0.63	*	*	*	388	*
Muir Station Road Tributary	2300 feet U/S of confluence with Antioch Church Tributary	0.55	*	*	*	356	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Muir Station Road Tributary	2950 feet U/S of confluence with Antioch Church Tributary	0.13	*	*	*	128	*
Muir Station Road Tributary	3420 feet U/S of confluence with Antioch Church Tributary	0.11	*	*	*	114	*
Muir Station Road Tributary	3740 feet U/S of confluence with Antioch Church Tributary	0.1	*	*	*	104	*
Muir Station Road Tributary	4010 feet U/S of confluence with Antioch Church Tributary	0.09	*	*	*	97	*
North Branch (north)	At confluence with Huffman Mill Road Tributary	0.31	*	*	*	239	*
North Branch (north)	1070 feet U/S of confluence with Huffman Mill Road Tributary	0.17	*	*	*	158	*
North Branch (north)	1900 feet U/S of confluence with Huffman Mill Road Tributary	0.15	*	*	*	143	*
North Branch (north)	2590 feet U/S of confluence with Huffman Mill Road Tributary	0.12	*	*	*	124	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
North Branch (south)	210 feet U/S of confluence with Highway 68-27 Tributary	0.15	*	*	*	145	*
North Branch (south)	730 feet U/S of confluence with Highway 68-27 Tributary	0.14	*	*	*	138	*
North Branch (south)	At Paris Pike NC	0.08	*	*	*	94	*
North Elkhorn Creek	1.63 miles D/S of confluence with BM 897 Tributary	75.36	*	*	*	14,815	*
North Elkhorn Creek	1.30 miles D/S of confluence with BM 897 Tributary	75.27	*	*	*	14,808	*
North Elkhorn Creek	4830 feet D/S of confluence with BM 897 Tributary	74.13	*	*	*	14,722	*
North Elkhorn Creek	510 feet D/S of confluence with BM 897 Tributary	73.68	*	*	*	14,688	*
North Elkhorn Creek	200 feet U/S of confluence with BM 897 Tributary	73.04	*	*	*	14,639	*
North Elkhorn Creek	4010 feet U/S of confluence with BM 897 Tributary	72.89	*	*	*	14,627	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
North Elkhorn Creek	2290 feet D/S of confluence with North Elkhorn Creek Tributary 17	72.45	*	*	*	14,593	*
North Elkhorn Creek	At confluence with North Elkhorn Creek Tributary 17	70.75	*	*	*	14,461	*
North Elkhorn Creek	At confluence with Mt Horeb Road Tributary	66.4	*	*	*	14,113	*
North Elkhorn Creek	2770 feet U/S of Mt Horeb Pike	66.26	*	*	*	14,102	*
North Elkhorn Creek	3330 feet D/S of confluence with Lemons Mill Road Tributary	65.27	*	*	*	14,021	*
North Elkhorn Creek	At confluence with Lemons Mill Road Tributary	63.45	*	*	*	13,869	*
North Elkhorn Creek	2500 feet U/S of confluence with Lemons Mill Road Tributary	63.21	*	*	*	13,849	*
North Elkhorn Creek	At Huffman Mill Pike	62.8	*	*	*	13,815	*
North Elkhorn Creek	At confluence with Huffman Mill Road Tributary	61.72	*	*	*	13,724	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
North Elkhorn Creek	1090 feet D/S of confluence with Harp Innis Road Tributary	61.27	*	*	*	13,685	*
North Elkhorn Creek	At confluence with Harp Innis Road Tributary	58.11	*	*	*	13,410	*
North Elkhorn Creek	1.03 miles U/S of confluence with Harp Innis Road Tributary	57.69	*	*	*	13,373	*
North Elkhorn Creek	3280 feet D/S of Russell Cave Road	57.03	*	*	*	13,314	*
North Elkhorn Creek	At Russell Cave Road	56.66	*	*	*	13,281	*
North Elkhorn Creek	1940 feet U/S of Russell Cave Road	55.94	*	*	*	13,216	*
North Elkhorn Creek	1.04 miles U/S of Russell Cave Road	55.4	*	*	*	13,166	*
North Elkhorn Creek	At Kenny Lane	54.82	*	*	*	13,113	*
North Elkhorn Creek	At confluence with Hughes Lane Tributary	53.07	*	*	*	12,952	*
North Elkhorn Creek	At confluence with Muir Station Road Tributary	50.78	*	*	*	12,734	*
North Elkhorn Creek	3600 feet U/S of confluence with Muir Station Road Tributary	50.48	*	*	*	12,705	*

*Data not available