

# FLOOD INSURANCE STUDY

## FEDERAL EMERGENCY MANAGEMENT AGENCY

VOLUME 1 OF 3



### FAIRFIELD COUNTY, OHIO AND INCORPORATED AREAS

| COMMUNITY NAME                            | NUMBER | COMMUNITY NAME               | NUMBER |
|-------------------------------------------|--------|------------------------------|--------|
| AMANDA, VILLAGE OF *                      | 390688 | PICKERINGTON, CITY OF        | 390162 |
| BALTIMORE, VILLAGE OF                     | 390159 | PLEASANTVILLE, VILLAGE OF *  | 391097 |
| BREMEN, VILLAGE OF                        | 390160 | RUSHVILLE, VILLAGE OF *      | 390997 |
| BUCKEYE LAKE, VILLAGE OF                  | 390882 | STOUTSVILLE, VILLAGE OF *    | 390998 |
| CARROLL, VILLAGE OF                       | 390817 | SUGAR GROVE, VILLAGE OF      | 390163 |
| FAIRFIELD COUNTY,<br>UNINCORPORATED AREAS | 390158 | TARLTON, VILLAGE OF *        | 390902 |
| LANCASTER, CITY OF                        | 390161 | THURSTON, VILLAGE OF         | 390690 |
| LITHOPOLIS, VILLAGE OF *                  | 390044 | WEST RUSHVILLE, VILLAGE OF * | 391098 |
| MILLERSPORT, VILLAGE OF                   | 390689 |                              |        |

\*No Special Flood Hazard Areas Identified

**PRELIMINARY**

January 4, 2016

**REVISED:**

**TO BE DETERMINED**

FLOOD INSURANCE STUDY NUMBER  
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# FEMA

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| Pleasant Run Lateral                | 083 P               |
| Poplar Creek                        | 084P - 087 P        |
| Raccoon Run                         | 088P - 090 P        |
| Rush Creek                          | 091P - 096 P        |
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| Unnamed Tributary to Sycamore Creek | 119P - 121 P        |
| Walnut Creek                        | 122P - 131 P        |
| Willow Run                          | 132P - 134 P        |
| Wilson Creek                        | 135 P               |

**Published Separately**

Flood Insurance Rate Map (FIRM)

# **FLOOD INSURANCE STUDY REPORT FAIRFIELD COUNTY, OHIO**

## **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 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 Fairfield County, Ohio.

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 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 |
|----------------------------------------|--------|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| Fairfield County, Unincorporated Areas | 390158 | 05030204<br>05040006<br>05060001<br>05060002 | 39045C0010G, 39045C0020G, 39045C0040H, 39045C0045G, 39045C0050G, 39045C0065G, 39045C0070G, 39045C0090G, 39045C0110G, 39045C0125G, 39045C0130H, 39045C0135G, 39045C0140G, 39045C0145G, 39045C0151G, 39045C0152G, 39045C0153G, 39045C0154G, 39045C0160G, 39045C0165G, 39045C0170G, 39045C0180G, 39045C0185G, 39045C0190G, 39045C0195G, 39045C0225G, 39045C0230G, 39045C0231G, 39045C0232G, 39045C0233G, 39045C0234G, 39045C0250G, 39045C0251G, 39045C0252G, 39045C0253H, 39045C0254G, 39045C0256G, 39045C0257G, 39045C0258G, 39045C0259G, 39045C0265G, 39045C0268G, 39045C0270G, 39045C0279H, 39045C0280G, 39045C0283H, 39045C0285H, 39045C0290G, 39045C0295H, 39045C0305G, 39045C0325G, 39045C0350G, 39045C0375G, 39045C0381G, 39045C0385G, 39045C0400G, 39045C0405G |                                                |
| Amanda, Village of <sup>1</sup>        | 390688 | 05030204                                     | 39045C0225G, 39045C0250G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                |
| Baltimore, Village of                  | 390159 | 05060001                                     | 39045C0135G, 39045C0151G, 39045C0152G, 39045C0153G, 39045C0154G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                |
| Bremen, Village of                     | 390160 | 05030204                                     | 39045C0279H, 39045C0283H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                |
| Buckeye Lake, Village of <sup>2</sup>  | 390882 | 05040006                                     | 39045C0070G, 39045C0090G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Licking FIS, 2015                              |
| Canal Winchester, Village of           | 390169 | 05060001                                     | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Franklin FIS, 2011                             |
| Carroll, Village of                    | 390817 | 05060001                                     | 39045C0140G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                |
| Columbus, City of                      | 390170 | 05060001                                     | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Franklin FIS, 2011                             |
| Lancaster, City of                     | 390161 | 05030204                                     | 39045C0145G, 39045C0165G, 39045C0170G, 39045C0230G, 39045C0231G, 39045C0232G, 39045C0233G, 39045C0234G, 39045C0251G, 39045C0252G, 39045C0253H, 39045C0254G, 39045C0256G, 39045C0257G, 39045C0258G, 39045C0259G, 39045C0265G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                |
| Lithopolis, Village of <sup>1</sup>    | 390044 | 05060001                                     | 39045C0110G, 39045C0125G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                |
| Millersport, Village of                | 390689 | 05060001<br>05040006                         | 39045C0070G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                |

| Community                               | CID    | HUC-8 Sub-Basin(s) | Located on FIRM Panel(s)                           | If Not Included, Location of Flood Hazard Data |
|-----------------------------------------|--------|--------------------|----------------------------------------------------|------------------------------------------------|
| Pickerington, City of                   | 390162 | 05060001           | 39045C0020G, 39045C0040H, 39045C0110G, 39045C0130H |                                                |
| Pleasantville, Village of <sup>1</sup>  | 391097 | 05060001           | 39045C0160G, 39045C0170G                           |                                                |
| Reynoldsburg, City of                   | 390177 | 05060001           | N/A                                                | Franklin FIS, 2011; Licking FIS, 2015          |
| Rushville, Village of <sup>1</sup>      | 390997 | 05030204           | 39045C0195G                                        |                                                |
| Stoutsville, Village of <sup>1</sup>    | 390998 | 05060002           | 39045C0350G                                        |                                                |
| Sugar Grove, Village of                 | 390163 | 05030204           | 39045C0268G, 39045C0381G                           |                                                |
| Tarlton, Village of <sup>1,3</sup>      | 390902 | 05060002           | 39045C0350G                                        | Pickaway FIS, 2010                             |
| Thurston, Village of                    | 390690 | 05060001           | 39045C0160G                                        |                                                |
| West Rushville, Village of <sup>1</sup> | 391098 | 05030204           | 39045C0190G                                        |                                                |

<sup>1</sup> No Special Flood Hazard Areas Identified <sup>2</sup> Multi-county community mapped in Fairfield and Licking Counties

<sup>3</sup> Multi-county community mapped in Fairfield and Pickaway Counties

## 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 Fairfield County became effective on January 6, 2012. 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:

| <u>Old Zone</u> | <u>New Zone</u> |
|-----------------|-----------------|
| A1 through A30  | AE              |
| V1 through V30  | VE              |
| 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 [www.fema.gov/national-flood-insurance-program-community-rating-system](http://www.fema.gov/national-flood-insurance-program-community-rating-system) or contact your appropriate FEMA Regional Office for more information about this program.

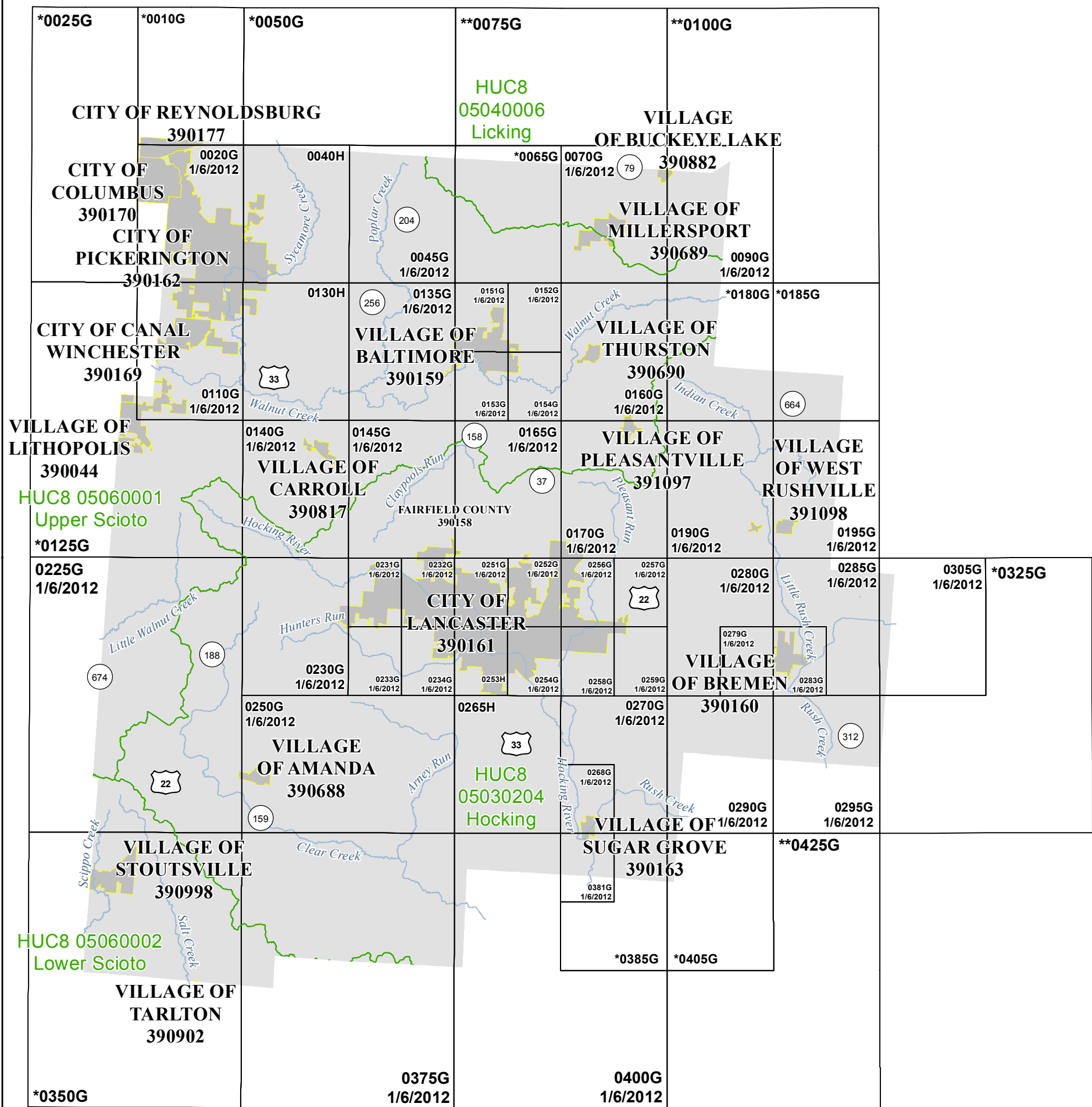
- Previous FIS Reports and FIRMs may have included levees that were accredited as reducing the risk associated with the 1% annual chance flood based on the information available and the mapping standards of the NFIP at that time. For FEMA to continue to accredit the identified levees, the levees must 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 ([nld.usace.army.mil](http://nld.usace.army.mil)). 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 [www.fema.gov/online-tutorials](http://www.fema.gov/online-tutorials).

The FIRM Index in Figure 1 shows the overall FIRM panel layout within Fairfield County, and also displays the panel number and effective date for each FIRM panel in the county. Other information shown on the FIRM Index includes community boundaries, flooding sources, watershed boundaries, and United States Geological Survey (USGS) Hydrologic Unit Code – 8 (HUC-8) codes.

Figure 1: FIRM Panel Index



1 inch = 3.5 miles 1:221,760  
0 1.75 3.5 7 Miles

Map Projection:  
State Plane Ohio South FIPS 3402;  
North American Datum 1983

THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING  
DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT  
[HTTP://MSC.FEMA.GOV](http://MSC.FEMA.GOV)

SEE FLOOD INSURANCE STUDY FOR ADDITIONAL INFORMATION

\* PANEL NOT PRINTED – NO SPECIAL FLOOD HAZARD AREAS  
\*\* PANEL NOT PRINTED – AREA NOT INCLUDED



**NATIONAL FLOOD INSURANCE PROGRAM**  
FLOOD INSURANCE RATE MAP INDEX

FAIRFIELD COUNTY, OHIO and Incorporated Areas

PANELS PRINTED:

0020, 0040, 0045, 0070, 0090, 0110, 0130, 0135, 0140, 0145, 0151, 0152, 0153, 0154, 0160, 0165, 0170, 0190, 0195, 0225, 0230, 0231, 0232, 0233, 0234, 0250, 0251, 0252, 0253, 0254, 0256, 0257, 0258, 0259, 0265, 0268, 0270, 0279, 0280, 0283, 0285, 0290, 0295, 0305, 0375, 0381, 0400

**PRELIMINARY**  
**1/4/2016**



Each FIRM panel may contain specific notes to the user that provide additional information regarding the flood hazard data shown on that map. However, the FIRM panel does not contain enough space to show all the notes that may be relevant in helping to better understand the information on the panel. Figure 2 contains the full list of these notes.

**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 Flood Map Service Center website at [msc.fema.gov](https://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 Flood 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 Flood 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 Non-Coastal 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.

**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.

**Figure 2. FIRM Notes to Users**

**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 State Plane Ohio South (FIPS Zone 3402). The horizontal datum was NAD83, GRS1980 spheroid. 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.

**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 [www.ngs.noaa.gov/](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 Fairfield County GIS Department. 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.

## **NOTES FOR FIRM INDEX**

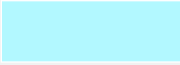
**REVISIONS TO INDEX:** As new studies are performed and FIRM panels are updated within Fairfield County, Ohio, corresponding revisions to the FIRM Index will be incorporated within the FIS Report to reflect the effective dates of those panels. Please refer to Table 28 of this FIS Report to determine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

**Figure 2. FIRM Notes to Users**

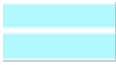
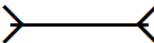
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SPECIAL NOTES FOR SPECIFIC FIRM PANELS</b><br>This Notes to Users section was created specifically for Fairfield County, Ohio, effective January 6, 2012.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>FLOOD RISK REPORT:</b> 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. |

Each FIRM panel contains an abbreviated legend for the features shown on the maps. However, the FIRM panel does not contain enough space to show the legend for all map features. Figure 3 shows the full legend of all map features. Note that not all of these features may appear on the FIRM panels in Fairfield County.

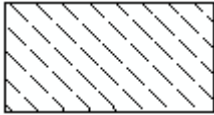
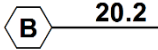
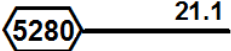
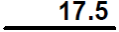
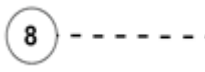
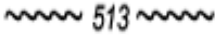
**Figure 3: Map Legend for FIRM**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SPECIAL FLOOD HAZARD AREAS:</b> <i>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.</i> |                                                                                                                                                                                                                                                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 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.                                                                                                                                                    |
| 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.           |

**Figure 3: Map Legend for FIRM**

|                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                         | Regulatory Floodway determined in Zone AE.                                                                                                                                                                                                                                  |
| <b>OTHER AREAS OF FLOOD HAZARD</b>                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                             |
|                                                                                                                                                                                                                                                                         | 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.                                                                                              |
| <b>OTHER AREAS</b>                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                             |
|                                                                                                                                                                                                                                                                         | Zone D (Areas of Undetermined Flood Hazard): The flood insurance rate zone that corresponds to unstudied areas where flood hazards are undetermined, but possible.                                                                                                          |
|                                                                                                                                                                                                                                                                         | Unshaded Zone X: Areas of minimal flood hazard.                                                                                                                                                                                                                             |
| <b>FLOOD HAZARD AND OTHER BOUNDARY LINES</b>                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                             |
|  (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                                                                                                                                                       |
| <b>GENERAL STRUCTURES</b>                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                             |
| <br><br><br> | Channel, Culvert, Aqueduct, or Storm Sewer                                                                                                                                                                                                                                  |
| <br><br>                                                                                        | Dam, Jetty, Weir                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                                       | Levee, Dike, or Floodwall                                                                                                                                                                                                                                                   |
| <br>                                                                                                                                                                               | Bridge                                                                                                                                                                                                                                                                      |

**Figure 3: Map Legend for FIRM**

|                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>COASTAL BARRIER RESOURCES SYSTEM (CBRS) AND OTHERWISE PROTECTED AREAS (OPA):</b> <i>CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.</i> |                                                                                                                                                                                                                                                                                                                                                                                                   |
| <br><b>CBRS AREA</b><br>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.                                                                                                                                                                                                                                     |
| <br><b>OTHERWISE PROTECTED AREA</b><br>09/30/2009                                                    | Otherwise Protected Area                                                                                                                                                                                                                                                                                                                                                                          |
| <b>REFERENCE MARKERS</b>                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                   |
| <br>22.0                                                                                             | River mile Markers                                                                                                                                                                                                                                                                                                                                                                                |
| <b>CROSS SECTION &amp; TRANSECT INFORMATION</b>                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                   |
| <br>20.2                                                                                            | Lettered Cross Section with Regulatory Water Surface Elevation (BFE)                                                                                                                                                                                                                                                                                                                              |
| <br>21.1                                                                                           | Numbered Cross Section with Regulatory Water Surface Elevation (BFE)                                                                                                                                                                                                                                                                                                                              |
| <br>17.5                                                                                           | Unlettered Cross Section with Regulatory Water Surface Elevation (BFE)                                                                                                                                                                                                                                                                                                                            |
| <br>8                                                                                              | Coastal Transect                                                                                                                                                                                                                                                                                                                                                                                  |
| <br>            | <p>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.</p> <p>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.</p> |
| <br>513                                                                                            | Base Flood Elevation Line                                                                                                                                                                                                                                                                                                                                                                         |
| <b>ZONE AE</b><br><b>(EL 16)</b>                                                                                                                                                      | Static Base Flood Elevation value (shown under zone label)                                                                                                                                                                                                                                                                                                                                        |
| <b>ZONE AO</b><br><b>(DEPTH 2)</b>                                                                                                                                                    | Zone designation with Depth                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ZONE AO</b><br><b>(DEPTH 2)</b><br><b>(VEL 15 FPS)</b>                                                                                                                             | Zone designation with Depth and Velocity                                                                                                                                                                                                                                                                                                                                                          |

**Figure 3: Map Legend for FIRM**

| <b>BASE MAP FEATURES</b>                                                                                |                                                                       |
|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
|  <i>Missouri Creek</i> | River, Stream or Other Hydrographic Feature                           |
|                        | Interstate Highway                                                    |
|                        | U.S. Highway                                                          |
|                        | State Highway                                                         |
|                        | County Highway                                                        |
|                        | Street, Road, Avenue Name, or Private Drive if shown on Flood Profile |
|                        | 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                                                |
| <sup>42</sup> <b>76</b> <sup>000m</sup> <b>E</b>                                                        | Horizontal Reference Grid Coordinates (UTM)                           |
| <b>365000 FT</b>                                                                                        | Horizontal Reference Grid Coordinates (State Plane)                   |
| <b>80° 16' 52.5"</b>                                                                                    | 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 Fairfield 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 Fairfield County, Ohio, 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.

**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 <sup>2</sup> ) (estuaries or ponding) | Floodway (Y/N) | Zone shown on FIRM | Date of Analysis |
|---------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------------------------|--------------------|-------------------------------------|------------------------------------------------|----------------|--------------------|------------------|
| Baldwin Run         | Lancaster, City of                                                                        | Confluence with Hocking River                    | Confluence with Feters Run and Ewing Run                           | 05030204           | 0.8                                 |                                                | Y              | AE                 | August 1987      |
| Baltimore Tributary | Baltimore, Village of; Fairfield County, Unincorporated Areas                             | Confluence with Pawpaw Creek                     | Roley Road                                                         | 05060001           | 1.4                                 |                                                | Y              | AE                 | September 1983   |
| Blacklick Creek     | Pickerington, City of                                                                     | Approximately 0.95 mile upstream of Refugee Road | I-70 West                                                          | 05060001           | 1.8                                 |                                                | Y              | AE                 | August 1989      |
| Blue Valley Lateral | Fairfield County, Unincorporated Areas                                                    | Confluence with the Hocking River                | Approximately 0.75 mile downstream of McGrery Road                 | 05030204           | 2.0                                 |                                                | Y              | AE                 | April 1977       |
| Buckeye Lake        | Buckeye Lake, Village of; Fairfield County, Unincorporated Areas; Millersport, Village of | N/A                                              | N/A                                                                | 05040006           |                                     | 3.8                                            | N              | AE                 | 2001             |
| Clark Run           | Fairfield County, Unincorporated Areas                                                    | Confluence with Rush Creek                       | Fairfield / Perry County boundary                                  | 05030204           | 0.1                                 |                                                | Y              | AE                 | October 2008     |
| Claypools Run       | Fairfield County, Unincorporated Areas                                                    | Confluence with the Ohio Canal                   | Approximately 175 feet downstream of Brook Road                    | 05030204           | 3.8                                 |                                                | Y              | AE                 | October 2008     |
| Crumley Creek       | Fairfield County, Unincorporated Areas                                                    | Confluence with Hunters Run                      | Approximately 825 feet upstream of its confluence with Hunters Run | 05030204           | 0.2                                 |                                                | Y              | AE                 | October 2008     |

| Flooding Source         | Community                                                                           | Downstream Limit                                                         | Upstream Limit                                              | HUC-8 Sub-Basin(s) | Length (mi) (streams or coastlines) | Area (mi <sup>2</sup> ) (estuaries or ponding) | Floodway (Y/N) | Zone shown on FIRM | Date of Analysis |
|-------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------|--------------------|-------------------------------------|------------------------------------------------|----------------|--------------------|------------------|
| Ewing Run               | Lancaster, City of; Fairfield County, Unincorporated Areas                          | Confluence with Fetters Run                                              | Approximately 2,400 feet upstream of Rainbow Drive          | 05030204           | 0.2                                 |                                                | Y              | AE                 | April 1977       |
| Fetters Run             | Lancaster, City of; Fairfield County, Unincorporated Areas                          | Confluence with Ewing Run                                                | Approximately 0.56 mile downstream of Coonpath Road         | 05030204           | 3.4                                 |                                                | Y              | AE                 | April 1977       |
| Georges Creek           | Pickerington, City of                                                               | Approximately 350 feet downstream of Long Road                           | Approximately 100 feet upstream of Pickerington Ridge Drive | 05060001           | 1.2                                 |                                                | Y              | AE                 | November 2002    |
| Georges Creek Overflow  | Pickerington, City of                                                               | Approximately 2,900 feet downstream of the divergence from Georges Creek | Divergence from Georges Creek                               | 05060001           | 0.5                                 |                                                | Y              | AE                 | November 2002    |
| Greenfield Creek        | Fairfield County, Unincorporated Areas                                              | Confluence with the Ohio Canal                                           | NRCS Structure R-63                                         | 05030204           | 3.3                                 |                                                | Y              | AE                 | October 2008     |
| Greenfield Creek Escape | Fairfield County, Unincorporated Areas                                              | Confluence with Claypool Run                                             | Divergence from Greenfield Creek                            | 05030204           | 1.3                                 |                                                | Y              | AE                 | October 2008     |
| Greenfield Creek Split  | Fairfield County, Unincorporated Areas                                              | Divergence with Greenfield Creek                                         | Confluence with Greenfield Creek                            | 05030204           | 0.5                                 |                                                | Y              | AE                 | October 2008     |
| Hocking River           | Fairfield County, Unincorporated Areas; Lancaster, City of; Sugar Grove, Village of | Sugar Grove Road                                                         | NRCS Structure No. 9                                        | 05030204           | 17.3                                |                                                | Y              | AE                 | October 2008     |
| Hocking River Diversion | Fairfield County, Unincorporated Areas; Sugar Grove, Village of                     | Confluence with Hocking River                                            | Divergence from Hocking River                               | 05030204           | 1.0                                 |                                                | Y              | AE                 | April 1977       |

| Flooding Source         | Community                                                     | Downstream Limit                  | Upstream Limit                                      | HUC-8 Sub-Basin(s) | Length (mi) (streams or coastlines) | Area (mi <sup>2</sup> ) (estuaries or ponding) | Floodway (Y/N) | Zone shown on FIRM | Date of Analysis |
|-------------------------|---------------------------------------------------------------|-----------------------------------|-----------------------------------------------------|--------------------|-------------------------------------|------------------------------------------------|----------------|--------------------|------------------|
| Hocking River Lateral A | Lancaster, City of                                            | Confluence with Hocking River     | Approximately 600 feet upstream of Hawthorne Avenue | 05030204           | 1.4                                 |                                                | Y              | AE                 | February 1979    |
| Hocking River Lateral B | Fairfield County, Unincorporated Areas; Lancaster, City of    | Confluence with Hocking River     | Approximately 1,500 feet upstream of Hoffman Drive  | 05030204           | 1.6                                 |                                                | Y              | AE                 | February 1979    |
| Hocking River Lateral D | Fairfield County, Unincorporated Areas; Lancaster, City of    | Confluence with Hocking River     | Lancaster-Circleville Road                          | 05030204           | 3.5                                 |                                                | Y              | AE                 | February 1979    |
| Hunters Run             | Fairfield County, Unincorporated Areas; Lancaster, City of    | Confluence with the Hocking River | Approximately 225 feet downstream of Mt. Zion Road  | 05030204           | 7.1                                 |                                                | Y              | AE                 | October 2008     |
| Little Rush Creek       | Bremen, Village of; Fairfield County, Unincorporated Areas    | Confluence with Rush Creek        | NRCS Structure No. VI-A                             | 05030204           | 10.2                                |                                                | Y              | AE                 | September 1980   |
| Little Walnut Creek     | Fairfield County, Unincorporated Areas                        | Confluence with Walnut Creek      | Richland Road                                       | 05060001           | 3.7                                 |                                                | Y              | AE                 | September 1983   |
| Ohio Canal              | Fairfield County, Unincorporated Areas; Lancaster, City of    | Confluence with the Hocking River | Confluence with Ohio Canal Lateral A                | 05030204           | 2.7                                 |                                                | Y              | AE                 | October 2008     |
| Ohio Canal Lateral A    | Fairfield County, Unincorporated Areas                        | Confluence with the Ohio Canal    | Approximately 100 feet upstream of Farm Lane        | 05030204           | 2.2                                 |                                                | Y              | AE                 | February 1979    |
| Pawpaw Creek            | Baltimore, Village of; Fairfield County, Unincorporated Areas | Confluence with Walnut Creek      | Approximately 750 feet downstream of Kumler Road    | 05060001           | 2.2                                 |                                                | Y              | AE                 | September 1983   |

| Flooding Source          | Community                                                     | Downstream Limit                                                   | Upstream Limit                                                                          | HUC-8 Sub-Basin(s) | Length (mi) (streams or coastlines) | Area (mi <sup>2</sup> ) (estuaries or ponding) | Floodway (Y/N) | Zone shown on FIRM | Date of Analysis |
|--------------------------|---------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------|-------------------------------------|------------------------------------------------|----------------|--------------------|------------------|
| Pawpaw Creek Tributary   | Fairfield County, Unincorporated Areas                        | Confluence with Pawpaw Creek                                       | Cherry Lane                                                                             | 05060001           | 0.3                                 |                                                | Y              | AE                 | September 1983   |
| Pleasant Run             | Fairfield County, Unincorporated Areas; Lancaster, City of    | Confluence with Hocking River                                      | Approximately 300 feet upstream of Lancaster-Thornville Road                            | 05030204           | 10.3                                |                                                | Y              | AE                 | April 1977       |
| Pleasant Run Lateral     | Fairfield County, Unincorporated Areas                        | Confluence with Pleasant Run                                       | Approximately 275 feet upstream of Duffy Road                                           | 05030204           | 1.1                                 |                                                | Y              | AE                 | April 1977       |
| Poplar Creek             | Fairfield County, Unincorporated Areas                        | Confluence with Walnut Creek                                       | Blacklick - Eastern Road                                                                | 05060001           | 7.9                                 |                                                | Y              | AE                 | September 1983   |
| Raccoon Run              | Bremen, Village of; Fairfield County, Unincorporated Areas    | Confluence with Rush Creek                                         | Lancaster - New Lexington Road                                                          | 05030204           | 6.6                                 |                                                | Y              | AE                 | September 1980   |
| Rush Creek               | Bremen, Village of; Fairfield County, Unincorporated Areas    | Confluence with Hocking River; Fairfield / Hocking County boundary | Fairfield / Hocking County Boundary; Approximately 1.2 miles upstream of Jerusalem Road | 05030204           | 12.3                                |                                                | Y              | AE                 | October 2008     |
| South Fork Licking River | Fairfield County, Unincorporated Areas                        | Walnut Road                                                        | Walnut Road                                                                             | 05040006           | 0.7                                 |                                                | Y              | AE                 | October 2008     |
| Stonewall Creek          | Fairfield County, Unincorporated Areas                        | Confluence with Hunters Run                                        | NRCS Structure No. 4                                                                    | 05030204           | 0.8                                 |                                                | Y              | AE                 | October 2008     |
| Sycamore Creek           | Fairfield County, Unincorporated Areas; Pickerington, City of | Confluence with Walnut Creek; Reynoldsburg – Baltimore Road        | Approximately 730 feet upstream of Hill Road; Fairfield / Licking County boundary       | 05060001           | 12.7                                |                                                | Y              | AE                 | 1997             |
| Sycamore Creek Overflow  | Pickerington, City of                                         | Divergence from Sycamore Creek                                     | Confluence with Sycamore Creek                                                          | 05060001           | 0.4                                 |                                                | N              | AE                 | August 1989      |

| Flooding Source                     | Community                                                                           | Downstream Limit                     | Upstream Limit                                                         | HUC-8 Sub-Basin(s) | Length (mi) (streams or coastlines) | Area (mi <sup>2</sup> ) (estuaries or ponding) | Floodway (Y/N) | Zone shown on FIRM | Date of Analysis |
|-------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------------------------------|--------------------|-------------------------------------|------------------------------------------------|----------------|--------------------|------------------|
| Tarhe Run                           | Fairfield County, Unincorporated Areas; Lancaster, City of                          | Confluence with Hocking River        | Approximately 1,250 feet downstream of Mill Road                       | 05030204           | 1.5                                 |                                                | Y              | AE                 | 2015             |
| Tributary A                         | Fairfield County, Unincorporated Areas                                              | Confluence with Rush Creek           | Approximately 1,625 feet upstream of Carpenter Road                    | 05030204           | 2.0                                 |                                                | N              | AE                 | September 1980   |
| Tributary B                         | Fairfield County, Unincorporated Areas                                              | Confluence with Rush Creek           | Approximately 225 feet upstream of Paradise Road                       | 05030204           | 1.2                                 |                                                | N              | AE                 | September 1980   |
| Tributary H                         | Fairfield County, Unincorporated Areas                                              | Confluence with Little Rush Creek    | Lake Road                                                              | 05030204           | 4.2                                 |                                                | N              | AE                 | September 1980   |
| Tributary I                         | Fairfield County, Unincorporated Areas                                              | Confluence with Raccoon Run          | Lancaster - New Lexington Road                                         | 05030204           | 1.3                                 |                                                | N              | AE                 | September 1980   |
| Turkey Run                          | Fairfield County, Unincorporated Areas                                              | Confluence with Rush Creek           | Approximately 575 feet downstream of Fairfield / Perry County boundary | 05030204           | 1.7                                 |                                                | N              | AE                 | September 1980   |
| Unnamed Tributary to Sycamore Creek | Fairfield County, Unincorporated Areas; Pickerington, City of                       | Confluence with Sycamore Creek       | Approximately 2,275 feet upstream of Doty Road                         | 05060001           | 2.7                                 |                                                | Y              | AE                 | 2015             |
| Walnut Creek                        | Baltimore, Village of; Fairfield County, Unincorporated Areas; Thurston, Village of | Fairfield / Franklin County boundary | Approximately 1,700 feet upstream of Baltimore – Somerset Road         | 05060001           | 21.1                                |                                                | Y              | AE                 | September 1983   |
| Willow Run                          | Fairfield County, Unincorporated Areas; Pickerington, City of                       | Confluence with Sycamore Creek       | Approximately 200 feet downstream of Refugee Road                      | 05060001           | 3.0                                 |                                                | Y              | AE                 | 1997             |

| Flooding Source        | Community                              | Downstream Limit              | Upstream Limit                                     | HUC-8 Sub-Basin(s) | Length (mi) (streams or coastlines) | Area (mi <sup>2</sup> ) (estuaries or ponding) | Floodway (Y/N) | Zone shown on FIRM | Date of Analysis |
|------------------------|----------------------------------------|-------------------------------|----------------------------------------------------|--------------------|-------------------------------------|------------------------------------------------|----------------|--------------------|------------------|
| Wilson Creek           | Fairfield County, Unincorporated Areas | Confluence with Hocking River | Approximately 175 feet downstream of Mt. Zion Road | 05030204           | 0.7                                 |                                                | Y              | AE                 | October 2008     |
| All Other Base Studies | Varies                                 | Varies                        | Varies                                             | Varies             | 33.4                                | 0.4                                            | N              | A                  | October 2008     |

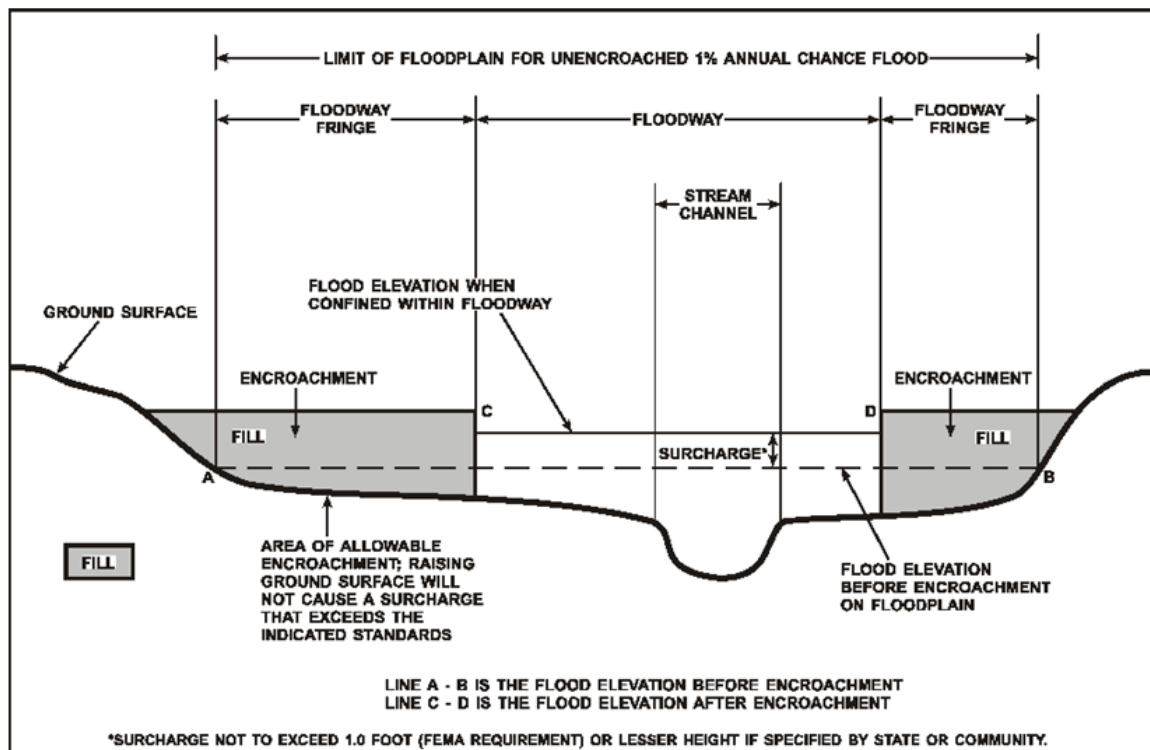
## 2.2 Floodways

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 State require communities in Fairfield County to limit increases caused by encroachment to 0.5 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."

All floodways that were developed for this Flood Risk Project are shown on the FIRM using the symbology described in Figure 3. In cases where the floodway and 1% 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 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**

This section is not applicable to this FIS project

## **2.5 Coastal Flood Hazard Areas**

### **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 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 Fairfield County.

**Table 3: Flood Zone Designations by Community**

| Community                               | Flood Zone(s) |
|-----------------------------------------|---------------|
| Amanda, Village of                      | X             |
| Baltimore, Village of                   | A, AE, X      |
| Bremen, Village of                      | AE, X         |
| Buckeye Lake, Village of                | AE, X         |
| Carroll, Village of                     | A, X          |
| Fairfield County (Unincorporated Areas) | A, AE, X      |
| Lancaster, City of                      | A, AE, X      |
| Lithopolis, Village of                  | X             |
| Millersport, Village of                 | AE, X         |
| Pickerington, City of                   | A, AE, X      |
| Pleasantville, Village of               | X             |
| Rushville, Village of                   | X             |
| Stoutsville, Village of                 | X             |
| Sugar Grove, Village of                 | AE, X         |
| Tarlton, Village of                     | X             |

| Community                  | Flood Zone(s) |
|----------------------------|---------------|
| Thurston, Village of       | A, AE, X      |
| West Rushville, Village of | X             |

### 3.2 Coastal Barrier Resources System

This section is not applicable to this FIS project

**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) |
|----------------------|------------------------|--------------------------|----------------------------------------------------------------------------------------------------|------------------------------|
| Hocking              | 05030204               | Hocking River            | Largest watershed within Fairfield County, encompassing the southeastern half of the county        | 1,196                        |
| Lower Scioto         | 05060002               | Scioto River             | Encompasses a small portion of the southwestern part of Fairfield County                           | 2,175                        |
| Upper Scioto         | 05060001               | Scioto River             | Second largest watershed within Fairfield County, encompassing the northwestern half of the county | 3,196                        |
| Licking              | 05040006               | South Fork Licking River | Encompasses a small portion of the northeastern part of Fairfield County                           | 780                          |

### 4.2 Principal Flood Problems

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

**Table 6: Principal Flood Problems**

| Flooding Source         | Description of Flood Problems                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Baldwin Run Watershed   | <p>The most recent flooding occurred in Lancaster from June 13 to 14, 1981. An intense thunderstorm centered over the Baldwin Run watershed resulted in extensive flooding. Several stores in the shopping center along East Main Street were heavily damaged. It was an approximately 4-percent-annual-chance flood in that portion of the watershed.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Hocking River Watershed | <p>In the Hocking River Watershed, flooding equivalent to the 10-percent-annual-chance storm occurred on March 4, 1963, and May 27, 1968. The floods that occurred on January 21, 1959; April 2, 1970; February 23, 1975; and July 23, 1976, are comparable to the two-year recurrence interval. The storm on June 19, 1978, passed to the north around most of the watershed. The rain that fell in the watershed caused considerable flooding along the Ohio Canal at Hooker. Flooding in this area was comparable to the 1-percent-annual-chance storm. Flooding from the above storms caused damage to agricultural fields, roads, and lawns.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Rush Creek Watershed    | <p>Flooding has historically been a major water resource problem in the Rush Creek watershed. Periodic flooding damages crops, pastures, urban areas, and transportation systems. Floods causing serious, widespread damage have occurred in March 1907, March 1913, August 1935, January 1937, April 1940, June 1950, March 1963, and March 1964. In recent years, major floods of somewhat lesser magnitude were experienced in June 1958, January 1959, May 1961, and February 1975.</p> <p>The storms of March 1963 and March 1964 resulted in the highest stages ever recorded in the Bremen area. The magnitude of the March 1963 flood in terms of precipitation was equivalent to the 3.33-percent-annual-chance storm; however, the discharges approached the equivalent of a 1-percent-annual-chance storm. Damage in Bremen in 1963 was estimated at \$500,000. Approximately 170 head of livestock drowned on farms located south of town. In addition, it was estimated that damages to roads, railroads, and bridges amounted to \$120,000.</p> <p>Numerous residences and commercial and industrial establishments in the Village of Bremen are susceptible to flooding. The area north and east of the Conrail tracks is subject to direct flooding from Little Rush Creek. Although some of those waters overflow into the rest of the village, most of the flooding results from Rush Creek.</p> |

| Flooding Source                                        | Description of Flood Problems                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Upper Hocking River and North Hocking River Watersheds | <p>The most severe flood known to have occurred in Lancaster was on the night of July 21, 1948. Approximately 8 to 10 inches of rain fell in the Upper Hocking River and North Hocking River watersheds. Over 200 residences and businesses were flooded and the resulting damage totaled over \$1,000,000. The U.S. Geological Survey (USGS) determined the discharge at the mouth of Hunters Run, with a drainage area of 10 square miles, to be 11,200 cubic feet per second (cfs), an extremely high discharge for such a small drainage area. Flooding also occurred on January 1, 1959; March 5, 1963; May 28, 1968; April 2, 1970; and February 24, 1975 (Reference 4). Estimates of the frequency of these floods are not available. Flooding in Lancaster frequently occurs in the George Street and Mulberry Street areas, in the Maple Street area adjacent to the river, and along Sugar Grove Road.</p> <p>During the evening of July 21, 1976, approximately 0.7 to 1.0 inch of rain fell along Pleasant Run upstream of Main Street on U.S. Route 22. On July 22, 1976, another 3.0 to 3.1 inches of rain fell in that drainage area, which is the amount equivalent to approximately an I-year storm. Amounts of rain falling over the Hocking River watershed varied considerably. Water flowed over Main Street on the morning of July 23, 1976.</p> |
| Walnut Creek Watershed                                 | <p>Flood damage within the Walnut Creek watershed has primarily been to crops. The average annual flood damage for this area is estimated to be \$75,000. Streambank erosion is occurring along some areas of Walnut Creek and its tributaries. Log jams and fallen trees in the channel have contributed to this problem by diverting flood flow toward the streambanks and undercutting the bank slopes. The most frequent flooding occurs during the winter and early spring.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

Table 7 contains information about historic flood elevations in the communities within Fairfield 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 Fairfield 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**

| Flooding Source         | Structure Name | Type of Measure                     | Location                                                   | Description of Measure                                                                                                                                                                        |
|-------------------------|----------------|-------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hocking River Watershed | N/A            | Reservoirs                          | Fairfield County, Unincorporated Areas; Lancaster, City of | Eight flood-retarding structures were installed, controlling 24.4 square miles of drainage area and providing 6,245 acre-feet of temporary flood storage. Construction was completed in 1961. |
| Rush Creek Watershed    | N/A            | Reservoirs and Channel Improvements | Fairfield County, Unincorporated Areas                     | Nineteen flood-retarding reservoirs have been constructed, controlling 85 square miles of drainage area. In addition, the channel improvement work on Rush Creek has been completed.          |
| Unspecified             | N/A            | Reservoirs                          | Sugar Grove, Village of                                    | As of March 2, 1982, 14 flood-retarding reservoirs have been constructed.                                                                                                                     |
| Unspecified             | N/A            | Reservoirs                          | Bremen, Village of                                         | As of December 15, 1990, 14 flood-retarding reservoirs have been construction.                                                                                                                |

#### 4.4 Levees

For purposes of the NFIP, FEMA only recognizes levee systems that meet, and continue to meet, minimum design, operation, and maintenance standards that are consistent with comprehensive floodplain management criteria. The Code of Federal Regulations, Title 44, Section 65.10 (44 CFR 65.10) describes the information needed for FEMA to determine if a levee system reduces the risk from the 1% annual chance flood. This information must be supplied to FEMA by the community or other party when a flood risk study or restudy is conducted, when FIRM's are revised, or upon FEMA request. FEMA reviews the information for the purpose of establishing the appropriate FIRM flood zone.

Levee systems that are determined to reduce the risk from the 1% annual chance flood are accredited by FEMA. FEMA can also grant provisional accreditation to a levee system that was previously accredited on an effective FIRM and for which FEMA is awaiting data and/or documentation to demonstrate compliance with Section 65.10. These levee systems are referred to as Provisionally Accredited Levees, or PALs. Provisional accreditation provides communities and levee owners with a specified timeframe to obtain the necessary data to confirm the levee's certification status. Accredited levee systems and PALs are shown on the FIRM using the symbology shown in Figure 3 and in Table 9. If the required information for a PAL is not submitted within the required timeframe, or if information indicates that a levee system no longer meets Section 65.10, FEMA will de-accredit the levee system and issue an effective FIRM showing the levee-impacted area as a SFHA.

FEMA coordinates its programs with USACE, who may inspect, maintain, and repair levee systems. The USACE has authority under Public Law 84-99 to supplement local efforts to repair flood control projects that are damaged by floods. Like FEMA, the USACE provides a program to allow public sponsors or operators to address levee system maintenance deficiencies. Failure to do so within the required timeframe results in the levee system being placed in an inactive status in the USACE Rehabilitation and Inspection Program. Levee systems in an inactive status are ineligible for rehabilitation assistance under Public Law 84-99.

FEMA coordinated with the USACE, the local communities, and other organizations to compile a list of levees that exist within Fairfield County. Table 9, “Levees,” lists all accredited levees, PALs, and de-accredited levees shown on the FIRM for this FIS Report. Other categories of levees may also be included in the table. The Levee ID shown in this table may not match numbers based on other identification systems that were listed in previous FIS Reports. Levees identified as PALs in the table are labeled on the FIRM to indicate their provisional status.

Please note that the information presented in Table 9 is subject to change at any time. For that reason, the latest information regarding any USACE structure presented in the table should be obtained by contacting USACE and accessing the USACE national levee database. For levees owned and/or operated by someone other than the USACE, contact the local community shown in Table 31.

**Table 9: Levees**

| Community                                                     | Flooding Source   | Levee Location | Levee Owner | USACE Levee | Levee ID  | Covered Under PL84-99 Program? | FIRM Panel(s)              |
|---------------------------------------------------------------|-------------------|----------------|-------------|-------------|-----------|--------------------------------|----------------------------|
| Bremen, Village of;<br>Fairfield County, Unincorporated Areas | Little Rush Creek | Right Bank     | Unknown     | No          | 39045C_75 | No                             | 39045C0283G<br>39045C0285G |
| Fairfield County, Unincorporated Areas                        | Raccoon Run       | Left Bank      | Unknown     | No          | 39045C_71 | No                             | 39045C0279G<br>39045C0283G |

## 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.

In addition to these flood events, the “1-percent-plus”, or “1%+”, annual chance flood elevation has been modeled and included on the flood profile for certain flooding sources in this FIS Report. While not used for regulatory or insurance purposes, this flood event has been calculated to help illustrate the variability range that exists between the regulatory 1% annual chance flood elevation and a 1% annual chance elevation that has taken into account an additional amount of uncertainty in the flood discharges (thus, the 1% “plus”). For flooding sources whose discharges were estimated using regression equations, the 1%+ flood elevations are derived by taking the 1% annual chance flood discharges and increasing the modeled discharges by a percentage equal to the average predictive error for the regression equation. For flooding sources with gage- or rainfall-runoff-based discharge estimates, the upper 84-percent confidence limit of the discharges is used to compute the 1%+ flood elevations.

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 Table 7 for selected flooding sources. A summary of stillwater elevations developed for non-coastal flooding sources is provided in Table 11. (Coastal stillwater elevations are discussed in Section 5.3 and shown in Table 17.) 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 Existing | 1% Annual Chance Plus | 0.2% Annual Chance |
| Baldwin Run         | At mouth                                             | 13.1                         | 4,400                | *                | 6,300            | 7,300                     | *                     | 9,100              |
| Baltimore Tributary | At confluence with Pawpaw Creek                      | 6.7                          | 1,270                | *                | 1,890            | 2,730                     | *                     | 3,490              |
| Blacklick Creek     | Approximately 9,000 feet downstream of Tussing Road  | 50.6                         | *                    | *                | *                | 10,900                    | *                     | *                  |
| Blue Valley Lateral | At confluence with Hocking River                     | 6.6                          | 1,184                | *                | 1,866            | 2,251                     | *                     | 3,036              |
| Clark Run           | At mouth                                             | 12.9                         | *                    | *                | *                | 1,205                     | *                     | 1,500              |
| Claypools Run       | At mouth                                             | 5.9                          | 953                  | *                | 1,470            | 1,690                     | *                     | 2,220              |
| Claypools Run       | Approximately 570 feet downstream of Havensport Road | 4.6                          | 849                  | *                | 1,320            | 1,530                     | *                     | 2,020              |
| Crumley Creek       | At mouth                                             | 1.9                          | 471                  | *                | 610              | 678                       | *                     | 802                |
| Ewing Run           | At mouth                                             | 5.2                          | 2,300                | *                | 3,200            | 3,700                     | *                     | 4,700              |
| Ewing Run           | Just upstream of Tiki Lane Road                      | 3.7                          | 2,100                | *                | 2,900            | 3,400                     | *                     | 4,200              |

\*Data not available / not calculated for this Flood Risk Project

**Table 10: Summary of Discharges (Continued)**

| Flooding Source         | Location                                         | Drainage Area<br>(Square Miles) | Peak Discharge (cfs) |                  |                  |                           |                       |                    |
|-------------------------|--------------------------------------------------|---------------------------------|----------------------|------------------|------------------|---------------------------|-----------------------|--------------------|
|                         |                                                  |                                 | 10% Annual Chance    | 4% Annual Chance | 2% Annual Chance | 1% Annual Chance Existing | 1% Annual Chance Plus | 0.2% Annual Chance |
| Fetters Run             | At mouth                                         | 7.1                             | 2,100                | *                | 3,100            | 3,600                     | *                     | 4,500              |
| Fetters Run             | Just upstream of Fair Avenue                     | 6.5                             | 2,100                | *                | 3,000            | 3,400                     | *                     | 4,300              |
| Fetters Run             | Just upstream of Granville Pike                  | 5.1                             | 1,800                | *                | 2,600            | 3,000                     | *                     | 3,800              |
| Georges Creek           | Approximately 350 feet downstream of Long Road   | 4.4                             | 901                  | *                | 1,272            | 1,374                     | *                     | 1,836              |
| Georges Creek Overflow  | Just downstream of divergence from Georges Creek | 0.9                             | *                    | *                | *                | 567                       | *                     | *                  |
| Greenfield Creek        | At mouth                                         | 3.2                             | 412                  | *                | 551              | 584                       | *                     | 665                |
| Greenfield Creek        | Just upstream of Election House Road             | 2.1                             | 304                  | *                | 408              | 433                       | *                     | 495                |
| Greenfield Creek        | Just upstream of Rainbow Drive                   | 0.9                             | 159                  | *                | 214              | 227                       | *                     | 259                |
| Greenfield Creek Escape | At mouth                                         | *                               | 158                  | *                | 297              | 330                       | *                     | 411                |
| Greenfield Creek Split  | At mouth                                         | *                               | 134                  | *                | 238              | 263                       | *                     | 325                |

\*Data not available / not calculated for this Flood Risk Project

**Table 10: Summary of Discharges (Continued)**

| Flooding Source | Location                                                              | Drainage Area<br>(Square Miles) | Peak Discharge (cfs) |                  |                  |                           |                       |                    |
|-----------------|-----------------------------------------------------------------------|---------------------------------|----------------------|------------------|------------------|---------------------------|-----------------------|--------------------|
|                 |                                                                       |                                 | 10% Annual Chance    | 4% Annual Chance | 2% Annual Chance | 1% Annual Chance Existing | 1% Annual Chance Plus | 0.2% Annual Chance |
| Hocking River   | At downstream county boundary                                         | 338.2                           | 10,394               | *                | 15,207           | 17,912                    | *                     | 23,605             |
| Hocking River   | Just downstream of confluence of Pleasant Run                         | 85.5                            | 8,069                | *                | 10,658           | 11,958                    | *                     | 14,746             |
| Hocking River   | At U.S. Route 33                                                      | *                               | 5,588                | *                | 7,638            | 8,700                     | *                     | 10,889             |
| Hocking River   | Just downstream of Sugar Grove Road                                   | 64.7                            | 3,760                | *                | 4,880            | 5,130                     | *                     | 5,770              |
| Hocking River   | Just upstream of confluence of Baldwin Run                            | 51.9                            | 3,170                | *                | 4,120            | 4,330                     | *                     | 4,870              |
| Hocking River   | Just upstream of confluence of Tarhe Run                              | 48.7                            | 3,000                | *                | 3,900            | 4,100                     | *                     | 4,610              |
| Hocking River   | Just upstream of confluence of Hunters Run                            | 36.3                            | 2,440                | *                | 3,190            | 3,360                     | *                     | 3,780              |
| Hocking River   | Just upstream of confluence of Hocking River Lateral B                | 30.0                            | 2,150                | *                | 2,810            | 2,960                     | *                     | 3,340              |
| Hocking River   | Just upstream of confluence of Ohio Canal and Hocking River Lateral D | 12.0                            | 1,060                | *                | 1,400            | 1,480                     | *                     | 1,670              |

\*Data not available / not calculated for this Flood Risk Project

**Table 10: Summary of Discharges (Continued)**

| Flooding Source         | Location                                       | Drainage Area<br>(Square Miles) | Peak Discharge (cfs) |                  |                  |                           |                       |                    |
|-------------------------|------------------------------------------------|---------------------------------|----------------------|------------------|------------------|---------------------------|-----------------------|--------------------|
|                         |                                                |                                 | 10% Annual Chance    | 4% Annual Chance | 2% Annual Chance | 1% Annual Chance Existing | 1% Annual Chance Plus | 0.2% Annual Chance |
| Hocking River           | Just upstream of confluence of Wilson Creek    | 7.5                             | 731                  | *                | 964              | 1,020                     | *                     | 1,150              |
| Hocking River Diversion | Just upstream of confluence with Hocking River | *                               | 2,700                | *                | 4,024            | 4,768                     | *                     | 6,300              |
| Hocking River Lateral A | At mouth                                       | 2.5                             | 610                  | *                | 900              | 1,100                     | *                     | 1,400              |
| Hocking River Lateral B | At mouth                                       | 1.7                             | 470                  | *                | 610              | 690                       | *                     | 860                |
| Hocking River Lateral D | At confluence with Hocking River               | 3.0                             | 1,100                | *                | 1,500            | 1,700                     | *                     | 2,200              |
| Hunters Run             | At mouth                                       | 11.7                            | 1,750                | *                | 2,220            | 2,450                     | *                     | 2,880              |
| Hunters Run             | Just upstream of Stonewall Creek               | 7.2                             | 1,250                | *                | 1,590            | 1,760                     | *                     | 2,070              |

\*Data not available / not calculated for this Flood Risk Project

**Table 10: Summary of Discharges (Continued)**

| Flooding Source      | Location                                          | Drainage Area<br>(Square Miles) | Peak Discharge (cfs) |                  |                  |                           |                       |                    |
|----------------------|---------------------------------------------------|---------------------------------|----------------------|------------------|------------------|---------------------------|-----------------------|--------------------|
|                      |                                                   |                                 | 10% Annual Chance    | 4% Annual Chance | 2% Annual Chance | 1% Annual Chance Existing | 1% Annual Chance Plus | 0.2% Annual Chance |
| Hunters Run          | Approximately 2900 feet downstream of US Route 33 | 4.8                             | 936                  | *                | 1,200            | 1,330                     | *                     | 1,560              |
| Hunters Run          | Just upstream of Crumley Creek                    | 2.4                             | 554                  | *                | 714              | 793                       | *                     | 936                |
| Hunters Run          | Just upstream of Lancaster-Circleville Road       | 1.4                             | 382                  | *                | 494              | 550                       | *                     | 650                |
| Little Rush Creek    | At confluence with Rush Creek                     | 60.9                            | 3,110                | *                | 4,810            | 5,130                     | *                     | 7,310              |
| Little Walnut Creek  | At confluence with Walnut Creek                   | 10.9                            | 2,360                | *                | 3,420            | 4,820                     | *                     | 6,150              |
| Ohio Canal           | At mouth                                          | 13.0                            | 1,180                | *                | 1,434            | 1,454                     | *                     | 1,554              |
| Ohio Canal           | Just upstream of Greenfield Creek                 | 9.0                             | 915                  | *                | 1,084            | 1,084                     | *                     | 1,084              |
| Ohio Canal           | Approximately 410 feet Upstream of Collins Road   | *                               | 915                  | *                | 1,220            | 1,290                     | *                     | 1,520              |
| Ohio Canal Lateral A | At confluence with Ohio Canal                     | 1.6                             | 390                  | *                | 580              | 680                       | *                     | 900                |
| Pawpaw Creek         | At confluence with Walnut Creek                   | 16.2                            | 2,830                | *                | 4,150            | 5,950                     | *                     | 7,590              |

\*Data not available / not calculated for this Flood Risk Project

**Table 10: Summary of Discharges (Continued)**

| Flooding Source        | Location                                            | Drainage Area<br>(Square Miles) | Peak Discharge (cfs) |                  |                  |                           |                       |                    |
|------------------------|-----------------------------------------------------|---------------------------------|----------------------|------------------|------------------|---------------------------|-----------------------|--------------------|
|                        |                                                     |                                 | 10% Annual Chance    | 4% Annual Chance | 2% Annual Chance | 1% Annual Chance Existing | 1% Annual Chance Plus | 0.2% Annual Chance |
| Pawpaw Creek Tributary | At confluence with Pawpaw Creek                     | 4.0                             | 620                  | *                | 890              | 1,270                     | *                     | 1,590              |
| Pleasant Run           | At confluence with Hocking River                    | 17.1                            | 2,551                | *                | 3,520            | 4,087                     | *                     | 5,446              |
| Pleasant Run           | Just upstream of Main Street                        | 9.1                             | 1,700                | *                | 2,300            | 2,600                     | *                     | 3,300              |
| Pleasant Run Lateral   | At confluence with Pleasant Run                     | 3.3                             | 919                  | *                | 1,291            | 1,516                     | *                     | 1,932              |
| Poplar Creek           | At confluence with Walnut Creek                     | 17.5                            | 2,840                | *                | 4,250            | 6,150                     | *                     | 7,870              |
| Raccoon Run            | At confluence with Rush Creek                       | 29.1                            | 1,430                | *                | 1,900            | 2,030                     | *                     | 2,920              |
| Rush Creek             | At confluence with Hocking River                    | 236.7                           | 5,640                | *                | *                | 9,440                     | *                     | *                  |
| Rush Creek             | At Marietta Road                                    | *                               | 5,220                | *                | 7,310            | 7,710                     | *                     | 10,990             |
| Rush Creek             | At confluence of Little Rush Creek                  | 159.6                           | 3,190                | *                | 4,080            | 4,230                     | *                     | 5,820              |
| Rush Creek             | Approximately 4,980 feet upstream of Jerusalem Road | 91.5                            | *                    | *                | *                | 5,440                     | *                     | 7,120              |

\*Data not available / not calculated for this Flood Risk Project

**Table 10: Summary of Discharges (Continued)**

| Flooding Source          | Location                                                        | Drainage Area (Square Miles) | Peak Discharge (cfs) |                  |                  |                           |                       |                    |
|--------------------------|-----------------------------------------------------------------|------------------------------|----------------------|------------------|------------------|---------------------------|-----------------------|--------------------|
|                          |                                                                 |                              | 10% Annual Chance    | 4% Annual Chance | 2% Annual Chance | 1% Annual Chance Existing | 1% Annual Chance Plus | 0.2% Annual Chance |
| South Fork Licking River | Approximately 4,300 feet upstream of CONRAIL                    | 18.0                         | 1,990                | *                | 3,100            | 3,640                     | *                     | 4,970              |
| Stonewall Creek          | At mouth                                                        | 1.6                          | 254                  | *                | 343              |                           | *                     |                    |
| Stonewall Creek          | Approximately 1,450 feet upstream of Cincinnati-Zanesville Road | 1.4                          | 236                  | *                | 319              | *                         | *                     | *                  |
| Sycamore Creek           | Approximately 2,300 feet downstream of Hill Road South          | 20.7                         | *                    | *                | *                | *                         | *                     | *                  |
| Sycamore Creek           | Approximately 500 feet downstream of Hill Road South            | 17.6                         | *                    | *                | *                | *                         | *                     | *                  |
| Sycamore Creek Overflow  | Just downstream of divergence from Sycamore Creek               | *                            | *                    | *                | *                | *                         | *                     | *                  |
| Tarhe Run                | At mouth                                                        | 2.8                          | 330                  | 470              | 590              | 710                       | 980                   | 1,020              |
| Tarhe Run                | 0.2 mile downstream of South Broad Street                       | 2.6                          | 300                  | 430              | 530              | 640                       | 880                   | 910                |
| Tarhe Run                | 0.1 mile downstream of Mill Road                                | 0.9                          | 80                   | 121              | 160              | 190                       | 260                   | 250                |
| Tributary A              | At confluence with Rush Creek                                   | 3.5                          | 1,040                | *                | 1,740            | 1,880                     | *                     | 2,690              |

\*Data not available / not calculated for this Flood Risk Project

**Table 10: Summary of Discharges (Continued)**

| Flooding Source                     | Location                                        | Drainage Area<br>(Square Miles) | Peak Discharge (cfs) |                  |                  |                           |                         |                    |
|-------------------------------------|-------------------------------------------------|---------------------------------|----------------------|------------------|------------------|---------------------------|-------------------------|--------------------|
|                                     |                                                 |                                 | 10% Annual Chance    | 4% Annual Chance | 2% Annual Chance | 1% Annual Chance Existing | 1% Annual Chance Future | 0.2% Annual Chance |
| Tributary B                         | At confluence with Rush Creek                   | 1.8                             | 540                  | *                | 910              | 980                       | *                       | 1,410              |
| Tributary H                         | At confluence with Little Rush Creek            | 13.6                            | *                    | *                | *                | 3,480                     | *                       | *                  |
| Tributary I                         | At confluence with Raccoon Run                  | 1.7                             | 350                  | *                | 590              | 640                       | *                       | 930                |
| Turkey Run                          | At mouth                                        | 11.0                            | 1,850                | *                | 3,010            | 3,260                     | *                       | 4,780              |
| Unnamed Tributary to Sycamore Creek | At mouth                                        | 3.57                            | 480                  | 660              | 810              | 980                       | 1,290                   | 1,440              |
| Unnamed Tributary to Sycamore Creek | 0.1 mile upstream of Allen Road                 | 3.06                            | 420                  | 570              | 710              | 860                       | 1,140                   | 1,260              |
| Unnamed Tributary to Sycamore Creek | 0.2 mile downstream of Stoudertown Road NW      | 1.69                            | 230                  | 320              | 390              | 480                       | 630                     | 700                |
| Walnut Creek                        | At downstream county boundary                   | 146.2                           | 11,330               | *                | 15,770           | 23,390                    | *                       | 30,980             |
| Walnut Creek                        | Downstream of confluence of Little Walnut Creek | 39.9                            | 4,800                | *                | 6,810            | 9,730                     | *                       | 12,230             |

\*Data not available / not calculated for this Flood Risk Project

**Table 10: Summary of Discharges (Continued)**

| Flooding Source | Location                                         | Drainage Area<br>(Square Miles) | Peak Discharge (cfs) |                  |                  |                           |                         |                    |
|-----------------|--------------------------------------------------|---------------------------------|----------------------|------------------|------------------|---------------------------|-------------------------|--------------------|
|                 |                                                  |                                 | 10% Annual Chance    | 4% Annual Chance | 2% Annual Chance | 1% Annual Chance Existing | 1% Annual Chance Future | 0.2% Annual Chance |
| Willow Run      | *                                                | *                               | *                    | *                | *                | *                         | *                       | *                  |
| Wilson Creek    | At mouth                                         | 2.8                             | 417                  | *                | 564              | 599                       | *                       | 687                |
| Wilson Creek    | Approximately 1,590 feet upstream of Wilson Road | 2.2                             | 366                  | *                | 500              | 533                       | *                       | 614                |

\*Data not available / not calculated for this Flood Risk Project

**Figure 7: Frequency Discharge-Drainage Area Curves**  
**[Not Applicable to this FIS Project]**

**Table 11: Summary of Non-Coastal Stillwater Elevations**

| Flooding Source | Location                               | Elevations (feet NAVD88) |                  |                  |                  |                    |
|-----------------|----------------------------------------|--------------------------|------------------|------------------|------------------|--------------------|
|                 |                                        | 10% Annual Chance        | 4% Annual Chance | 2% Annual Chance | 1% Annual Chance | 0.2% Annual Chance |
| Buckeye Lake    | Fairfield County, Unincorporated Areas | 892.1                    | *                | 892.6            | 892.8            | 893.2              |

\*Not calculated for this Flood Risk Project

**Table 12: Stream Gage Information used to Determine Discharges**

| Flooding Source | Gage Identifier | Agency that Maintains Gage | Site Name                  | Drainage Area (Square Miles) | Period of Record |           |
|-----------------|-----------------|----------------------------|----------------------------|------------------------------|------------------|-----------|
|                 |                 |                            |                            |                              | From             | To        |
| Hocking River   | 03156400        | USGS                       | Hocking River at Lancaster | 48.2                         | 1/1/1956         | 6/11/1980 |
| Hunters Run     | 03156000        | USGS                       | Hunters Run at Lancaster   | 10.0                         | 6/1/1956         | 11/5/1974 |

## 5.2 Hydraulic Analyses

Analyses of the hydraulic characteristics of flooding from the sources studied were carried out to provide estimates of the elevations of floods of the selected recurrence intervals. Base flood elevations on the FIRM represent the elevations shown on the Flood Profiles and in the Floodway Data tables in the FIS Report. Rounded whole-foot elevations may be shown on the FIRM in coastal areas, areas of ponding, and other areas with static base flood elevations. These whole-foot elevations may not exactly reflect the elevations derived from the hydraulic analyses. Flood elevations shown on the FIRM 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. The hydraulic analyses for this FIS were based on unobstructed flow. The flood elevations shown on the profiles are thus considered valid only if hydraulic structures remain unobstructed, operate properly, and do not fail.

For streams for which hydraulic analyses were based on cross sections, locations of selected cross sections are shown on the Flood Profiles (Exhibit 1). For stream segments for which a floodway was computed (Section 6.3), selected cross sections are also listed on Table 24, "Floodway Data."

A summary of the methods used in hydraulic analyses performed for this project is provided in Table 13. Roughness coefficients are provided in Table 14. Roughness coefficients are values representing the frictional resistance water experiences when passing overland or through a channel. They are used in the calculations to determine water surface elevations. Greater detail (including assumptions, analysis, and results) is available in the archived project documentation.

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

| Flooding Source        | Study Limits<br>Downstream Limit                          | Study Limits<br>Upstream Limit                                              | Hydrologic<br>Model or<br>Method Used    | Hydraulic<br>Model or<br>Method Used  | Date<br>Analyses<br>Completed | Flood<br>Zone on<br>FIRM | Special Considerations                                                                                                            |
|------------------------|-----------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------|---------------------------------------|-------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Baldwin Run            | Confluence with<br>Hocking River                          | Confluence with<br>Fetters Run and<br>Ewing Run                             | SCS TR-20                                | SCS WSP-2<br>(TR-64 for<br>Floodways) | August<br>1987                | AE                       |                                                                                                                                   |
| Baltimore<br>Tributary | Confluence with<br>Pawpaw Creek                           | Roley Road                                                                  | SCS TR-20                                | SCS WSP-2                             | September<br>1983             | AE                       | Data obtained from USDA, SCS, <u>Flood Plain<br/>Management Study, Walnut Creek, Fairfield<br/>County, Ohio</u> , September 1983. |
| Blacklick Creek        | Approximately<br>0.95 mile<br>upstream of<br>Refugee Road | I-70 West                                                                   | Urban<br>Regression<br>Equations         | WSPRO                                 | August<br>1989                | AE                       |                                                                                                                                   |
| Blue Valley<br>Lateral | Confluence with<br>the Hocking River                      | Approximately<br>0.75 mile<br>downstream of<br>McGrery Road                 | SCS TR-20                                | SCS WSP-2                             | April 1977                    | AE                       | Data obtained from USDA, SCS, <u>Flood Hazard<br/>Analyses Report, Hocking River, Fairfield<br/>County, Ohio</u> , April 1977.    |
| Buckeye Lake           | N/A                                                       | N/A                                                                         | N/A                                      | Unknown                               | 2001                          | AE                       |                                                                                                                                   |
| Clark Run              | Confluence with<br>Rush Creek                             | Fairfield / Perry<br>County boundary                                        | NRCS<br>WinTR-20,<br>Version 1.00        | HEC-RAS<br>(Version 3.1.3)            | October<br>2008               | AE                       |                                                                                                                                   |
| Claypools Run          | Confluence with<br>the Ohio Canal                         | Approximately<br>175 feet<br>downstream of<br>Brook Road                    | Regression<br>Equations<br>(WRIR03-4164) | HEC-RAS<br>(Version 3.1.3)            | October<br>2008               | AE                       |                                                                                                                                   |
| Crumley Creek          | Confluence with<br>Hunters Run                            | Approximately<br>825 feet upstream<br>of its confluence<br>with Hunters Run | Regression<br>Equations<br>(WRIR03-4164) | HEC-RAS<br>(Version 3.1.3)            | October<br>2008               | AE                       |                                                                                                                                   |

| Flooding Source            | Study Limits<br>Downstream Limit                                                        | Study Limits<br>Upstream Limit                                          | Hydrologic<br>Model or<br>Method Used    | Hydraulic<br>Model or<br>Method Used  | Date<br>Analyses<br>Completed | Flood<br>Zone on<br>FIRM | Special Considerations                                                                                                         |
|----------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------|---------------------------------------|-------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Ewing Run                  | Confluence with<br>Fetters Run                                                          | Approximately<br>2,400 feet<br>upstream of<br>Rainbow Drive             | SCS TR-20                                | SCS WSP-2<br>(TR-64 for<br>Floodways) | April 1977                    | AE                       | Data obtained from USDA, SCS, <u>Flood Hazard<br/>Analyses Report, Hocking River, Fairfield<br/>County, Ohio</u> , April 1977. |
| Fetters Run                | Confluence with<br>Ewing Run                                                            | Approximately<br>0.56 mile<br>downstream of<br>Coonpath Road            | SCS TR-20                                | SCS WSP-2                             | April 1977                    | AE                       | Data obtained from USDA, SCS, <u>Flood Hazard<br/>Analyses Report, Hocking River, Fairfield<br/>County, Ohio</u> , April 1977. |
| Georges Creek              | Approximately<br>350 feet<br>downstream of<br>Long Road                                 | Approximately<br>100 feet<br>upstream of<br>Pickerington<br>Ridge Drive | SCS TR-20                                | HEC-RAS                               | November<br>2002              | AE                       |                                                                                                                                |
| Georges Creek<br>Overflow  | Approximately<br>2,900 feet<br>downstream of<br>the divergence<br>from Georges<br>Creek | Divergence from<br>Georges Creek                                        | SCS TR-20                                | HEC-RAS                               | November<br>2002              | AE                       |                                                                                                                                |
| Greenfield Creek           | Confluence with<br>the Ohio Canal                                                       | NRCS Structure<br>R-63                                                  | Regression<br>Equations<br>(WRIR03-4164) | HEC-RAS<br>(Version 3.1.3)            | October<br>2008               | AE                       |                                                                                                                                |
| Greenfield Creek<br>Escape | Confluence with<br>Claypool Run                                                         | Divergence from<br>Greenfield Creek                                     | Regression<br>Equations<br>(WRIR03-4164) | HEC-RAS<br>(Version 3.1.3)            | October<br>2008               | AE                       |                                                                                                                                |
| Greenfield Creek<br>Split  | Divergence with<br>Greenfield Creek                                                     | Confluence with<br>Greenfield Creek                                     | Regression<br>Equations<br>(WRIR03-4164) | HEC-RAS<br>(Version 3.1.3)            | October<br>2008               | AE                       |                                                                                                                                |

| Flooding Source         | Study Limits<br>Downstream Limit  | Study Limits<br>Upstream Limit                      | Hydrologic<br>Model or<br>Method Used                                           | Hydraulic<br>Model or<br>Method Used       | Date<br>Analyses<br>Completed | Flood<br>Zone on<br>FIRM | Special Considerations                                                                                                              |
|-------------------------|-----------------------------------|-----------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------|-------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Hocking River           | Sugar Grove Road                  | NRCS Structure No. 9                                | Regression Equations (WRIR03-4164); Gage Analysis (LPIII Regression); SCS TR-20 | HEC-RAS (Version 3.1.3); SCS WSP-2         | October 2008                  | AE                       |                                                                                                                                     |
| Hocking River Diversion | Confluence with Hocking River     | Divergence from Hocking River                       | SCS TR-20                                                                       | SCS WSP-2                                  | April 1977                    | AE                       | Data obtained from USDA, SCS, <u>Flood Hazard Analyses Report, Hocking River, Fairfield County, Ohio</u> , April 1977.              |
| Hocking River Lateral A | Confluence with Hocking River     | Approximately 600 feet upstream of Hawthorne Avenue | SCS TR-20                                                                       | SCS WSP-2 (TR-64 for Floodways)            | February 1979                 | AE                       | Data obtained from USDA, SCS, <u>Flood Hazard Analyses Report, Upper Hocking River, Fairfield County, Ohio</u> , February 1979.     |
| Hocking River Lateral B | Confluence with Hocking River     | Approximately 1,500 feet upstream of Hoffman Drive  | SCS TR-20                                                                       | SCS WSP-2 (TR-64 for Floodways)            | February 1979                 | AE                       | Data obtained from USDA, SCS, <u>Flood Hazard Analyses Report, Upper Hocking River, Fairfield County, Ohio</u> , February 1979.     |
| Hocking River Lateral D | Confluence with Hocking River     | Lancaster-Circleville Road                          | SCS TR-20                                                                       | SCS WSP-2; SCS WSP-2 (TR-64 for Floodways) | February 1979                 | AE                       | Data obtained from USDA, SCS, <u>Flood Hazard Analyses Report, Upper Hocking River, Fairfield County, Ohio</u> , February 1979.     |
| Hunters Run             | Confluence with the Hocking River | Approximately 225 feet downstream of Mt. Zion Road  | Regression Equations (WRIR03-4164); Gage Analysis (LPIII Regression)            | HEC-RAS (Version 3.1.3)                    | October 2008                  | AE                       |                                                                                                                                     |
| Little Rush Creek       | Confluence with Rush Creek        | NRCS Structure No. VI-A                             | SCS TR-20                                                                       | SCS WSP-2                                  | September 1980                | AE                       | Data obtained from USDA, SCS, <u>Flood Hazard Study, Rush Creek, Fairfield, Hocking, and Perry Counties, Ohio</u> , September 1980. |

| Flooding Source        | Study Limits<br>Downstream Limit  | Study Limits<br>Upstream Limit                               | Hydrologic<br>Model or<br>Method Used | Hydraulic<br>Model or<br>Method Used          | Date<br>Analyses<br>Completed | Flood<br>Zone on<br>FIRM | Special Considerations                                                                                                          |
|------------------------|-----------------------------------|--------------------------------------------------------------|---------------------------------------|-----------------------------------------------|-------------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Little Walnut Creek    | Confluence with Walnut Creek      | Richland Road                                                | SCS TR-20                             | SCS WSP-2                                     | September 1983                | AE                       | Data obtained from USDA, SCS, <u>Flood Plain Management Study, Walnut Creek, Fairfield County, Ohio</u> , September 1983.       |
| Ohio Canal             | Confluence with the Hocking River | Confluence with Ohio Canal Lateral A                         | Regression Equations (WRIR03-4164)    | HEC-RAS (Version 3.1.3)                       | October 2008                  | AE                       |                                                                                                                                 |
| Ohio Canal Lateral A   | Confluence with the Ohio Canal    | Approximately 100 feet upstream of Farm Lane                 | SCS TR-20                             | SCS WSP-2                                     | February 1979                 | AE                       | Data obtained from USDA, SCS, <u>Flood Hazard Analyses Report, Upper Hocking River, Fairfield County, Ohio</u> , February 1979. |
| Pawpaw Creek           | Confluence with Walnut Creek      | Approximately 750 feet downstream of Kumler Road             | SCS TR-20                             | SCS WSP-2                                     | September 1983                | AE                       | Data obtained from USDA, SCS, <u>Flood Plain Management Study, Walnut Creek, Fairfield County, Ohio</u> , September 1983.       |
| Pawpaw Creek Tributary | Confluence with Pawpaw Creek      | Cherry Lane                                                  | SCS TR-20                             | SCS WSP-2                                     | September 1983                | AE                       | Data obtained from USDA, SCS, <u>Flood Plain Management Study, Walnut Creek, Fairfield County, Ohio</u> , September 1983.       |
| Pleasant Run           | Confluence with Hocking River     | Approximately 300 feet upstream of Lancaster-Thornville Road | SCS TR-20                             | SCS WSP-2                                     | April 1977                    | AE                       | Data obtained from USDA, SCS, <u>Flood Hazard Analyses Report, Hocking River, Fairfield County, Ohio</u> , April 1977.          |
| Pleasant Run Lateral   | Confluence with Pleasant Run      | Approximately 275 feet upstream of Duffy Road                | SCS TR-20                             | SCS WSP-2;<br>SCS WSP-2 (TR-64 for Floodways) | April 1977                    | AE                       | Data obtained from USDA, SCS, <u>Flood Hazard Analyses Report, Hocking River, Fairfield County, Ohio</u> , April 1977.          |
| Poplar Creek           | Confluence with Walnut Creek      | Blacklick - Eastern Road                                     | SCS TR-20                             | SCS WSP-2                                     | September 1983                | AE                       | Data obtained from USDA, SCS, <u>Flood Plain Management Study, Walnut Creek, Fairfield County, Ohio</u> , September 1983.       |

| Flooding Source             | Study Limits<br>Downstream Limit          | Study Limits<br>Upstream Limit                                                 | Hydrologic<br>Model or<br>Method Used    | Hydraulic<br>Model or<br>Method Used                | Date<br>Analyses<br>Completed | Flood<br>Zone on<br>FIRM | Special Considerations                                                                                                              |
|-----------------------------|-------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------------------|-------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Raccoon Run                 | Confluence with<br>Rush Creek             | Lancaster - New<br>Lexington Road                                              | SCS TR-20                                | SCS WSP-2;<br>SCS WSP-2<br>(TR-64 for<br>Floodways) | September<br>1980             | AE                       | Data obtained from USDA, SCS, <u>Flood Hazard Study, Rush Creek, Fairfield, Hocking, and Perry Counties, Ohio</u> , September 1980. |
| Rush Creek                  | Confluence with<br>Hocking River          | Fairfield /<br>Hocking County<br>Boundary                                      | WinTR-20                                 | HEC-RAS<br>(Version 3.1.3)                          | October<br>2008               | AE                       |                                                                                                                                     |
| Rush Creek                  | Fairfield /<br>Hocking County<br>boundary | Approximately 1.2<br>miles upstream of<br>Jerusalem Road                       | WinTR-20                                 | HEC-RAS<br>(Version 3.1.3)                          | October<br>2008               | AE                       |                                                                                                                                     |
| South Fork<br>Licking River | Walnut Road                               | Walnut Road                                                                    | SCS TR-20                                | Unknown                                             | December<br>1983              | AE                       | Hydrologic & hydraulics data obtained from <u>Flood Insurance Study, Licking County, (Unincorporated Areas)</u> , December 1983.    |
| Stonewall Creek             | Confluence with<br>Hunters Run            | NRCS Structure<br>No. 4                                                        | Regression<br>Equations<br>(WRIR03-4164) | HEC-RAS<br>(Version 3.1.3)                          | October<br>2008               | AE                       |                                                                                                                                     |
| Sycamore Creek              | Confluence with<br>Walnut Creek           | Approximately<br>730 feet<br>upstream of Hill<br>Road                          | SCS TR-20                                | HEC-RAS<br>(Version 3.1.3)                          | 1997                          | AE                       |                                                                                                                                     |
| Sycamore Creek              | Reynoldsburg –<br>Baltimore Road          | Fairfield / Licking<br>County boundary                                         | Regression<br>Equations<br>(Bulletin 45) | HEC-RAS<br>(Version 3.1.3)                          | 1997                          | AE                       |                                                                                                                                     |
| Sycamore Creek<br>Overflow  | Divergence from<br>Sycamore Creek         | Confluence with<br>Sycamore Creek                                              | Regression<br>Equations<br>(Bulletin 45) | WSPRO                                               | August<br>1989                | AE                       |                                                                                                                                     |
| Tarhe Run                   | Confluence with<br>Hocking River          | Approximately 1.5<br>miles upstream of<br>the confluence with<br>Hocking River | HEC-HMS<br>(Version 4.0)                 | HEC-RAS<br>(Version 4.1)                            | 2015                          | AE                       |                                                                                                                                     |

| Flooding Source                           | Study Limits<br>Downstream Limit           | Study Limits<br>Upstream Limit                                             | Hydrologic<br>Model or<br>Method Used | Hydraulic<br>Model or<br>Method Used | Date<br>Analyses<br>Completed | Flood<br>Zone on<br>FIRM | Special Considerations                                                                                                              |
|-------------------------------------------|--------------------------------------------|----------------------------------------------------------------------------|---------------------------------------|--------------------------------------|-------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Tributary A                               | Confluence with<br>Rush Creek              | Approximately<br>1,250 feet<br>downstream of<br>Mill Road                  | SCS TR-20                             | SCS WSP-2                            | September<br>1980             | AE                       | Data obtained from USDA, SCS, <u>Flood Hazard Study, Rush Creek, Fairfield, Hocking, and Perry Counties, Ohio</u> , September 1980. |
| Tributary B                               | Confluence with<br>Rush Creek              | Approximately<br>1,625 feet<br>upstream of<br>Carpenter Road               | SCS TR-20                             | SCS WSP-2                            | September<br>1980             | AE                       | Data obtained from USDA, SCS, <u>Flood Hazard Study, Rush Creek, Fairfield, Hocking, and Perry Counties, Ohio</u> , September 1980. |
| Tributary H                               | Confluence with<br>Little Rush Creek       | Approximately<br>225 feet<br>upstream of<br>Paradise Road                  | SCS TR-20                             | SCS WSP-2                            | September<br>1980             | AE                       | Data obtained from USDA, SCS, <u>Flood Hazard Study, Rush Creek, Fairfield, Hocking, and Perry Counties, Ohio</u> , September 1980. |
| Tributary I                               | Confluence with<br>Raccoon Run             | Lake Road                                                                  | SCS TR-20                             | SCS WSP-2                            | September<br>1980             | AE                       | Data obtained from USDA, SCS, <u>Flood Hazard Study, Rush Creek, Fairfield, Hocking, and Perry Counties, Ohio</u> , September 1980. |
| Turkey Run                                | Confluence with<br>Rush Creek              | Lancaster - New<br>Lexington Road                                          | SCS TR-20                             | SCS WSP-2                            | September<br>1980             | AE                       | Data obtained from USDA, SCS, <u>Flood Hazard Study, Rush Creek, Fairfield, Hocking, and Perry Counties, Ohio</u> , September 1980. |
| Unnamed<br>Tributary to<br>Sycamore Creek | Confluence with<br>Sycamore Creek          | Approximately<br>2,275 feet<br>upstream of Doty<br>Road                    | HEC-HMS<br>(Version 4.0)              | HEC-RAS<br>(Version 4.1)             | 2015                          | AE                       |                                                                                                                                     |
| Walnut Creek                              | Fairfield /<br>Franklin County<br>boundary | Approximately<br>1,700 feet<br>upstream of<br>Baltimore –<br>Somerset Road | SCS TR-20                             | SCS WSP-2                            | September<br>1983             | AE                       | Data obtained from USDA, SCS, <u>Flood Plain Management Study, Walnut Creek, Fairfield County, Ohio</u> , September 1983.           |
| Willow Run                                | Confluence with<br>Sycamore Creek          | Approximately<br>200 feet<br>downstream of<br>Refugee Road                 | SCS TR-20                             | HEC-RAS<br>(Version 3.1.3)           | 1997                          | AE                       |                                                                                                                                     |

| Flooding Source           | Study Limits<br>Downstream Limit | Study Limits<br>Upstream Limit                              | Hydrologic<br>Model or<br>Method Used          | Hydraulic<br>Model or<br>Method Used | Date<br>Analyses<br>Completed | Flood<br>Zone on<br>FIRM | Special Considerations |
|---------------------------|----------------------------------|-------------------------------------------------------------|------------------------------------------------|--------------------------------------|-------------------------------|--------------------------|------------------------|
| Wilson Creek              | Confluence with<br>Hocking River | Approximately<br>175 feet<br>downstream of<br>Mt. Zion Road | Regression<br>Equations<br>(WRIR03-4164)       | HEC-RAS<br>(Version 3.1.3)           | October<br>2008               | AE                       |                        |
| All Other Base<br>Studies | Varies                           | Varies                                                      | Regression<br>Equations<br>(SIR 2006-<br>5312) | HEC-RAS<br>(Version 3.1.3)           | October<br>2008               | A                        |                        |

**Table 14: Roughness Coefficients**

| Flooding Source          | Channel “n”   | Overbank “n”  |
|--------------------------|---------------|---------------|
| Baldwin Run              | 0.025 - 0.075 | 0.030 - 0.200 |
| Baltimore Tributary      | 0.039 - 0.050 | 0.060 - 0.100 |
| Blacklick Creek          | 0.025 - 0.060 | 0.035 - 0.100 |
| Blue Valley Lateral      | 0.050 - 0.072 | 0.055 - 0.090 |
| Clark Run                | 0.036 - 0.046 | 0.032 - 0.068 |
| Claypools Run            | 0.034 - 0.070 | 0.028 - 0.072 |
| Crumley Creek            | 0.036 - 0.040 | 0.046         |
| Ewing Run                | 0.025 - 0.075 | 0.030 - 0.200 |
| Fetters Run              | 0.025 - 0.075 | 0.030 - 0.200 |
| Georges Creek            | 0.012 - 0.050 | 0.030 - 0.070 |
| Georges Creek Overflow   | *             | *             |
| Greenfield Creek         | 0.028 - 0.050 | 0.028 - 0.070 |
| Greenfield Creek Escape  | 0.028 - 0.046 | 0.028 - 0.046 |
| Greenfield Creek Split   | 0.038 - 0.046 | 0.038 - 0.070 |
| Hocking River            | 0.025 - 0.074 | 0.055 - 0.150 |
| Hocking River Diversion  | 0.065 - 0.080 | 0.065 - 0.080 |
| Hocking River Lateral A  | 0.025 - 0.075 | 0.030 - 0.200 |
| Hocking River Lateral B  | 0.025 - 0.075 | 0.030 - 0.200 |
| Hocking River Lateral D  | 0.025 - 0.07  | 0.030 - 0.200 |
| Hunters Run              | 0.036 - 0.048 | 0.028 - 0.072 |
| Little Rush Creek        | 0.060         | 0.060 - 0.120 |
| Little Walnut Creek      | 0.035 - 0.046 | 0.060 - 0.090 |
| Ohio Canal               | 0.042 - 0.046 | 0.032 - 0.070 |
| Ohio Canal Lateral A     | 0.035 - 0.090 | 0.080 - 0.200 |
| Pawpaw Creek             | 0.045 - 0.049 | 0.075 - 0.100 |
| Pawpaw Creek Tributary   | 0.050         | 0.080         |
| Pleasant Run             | 0.025 - 0.095 | 0.030 - 0.200 |
| Pleasant Run Lateral     | 0.032 - 0.100 | 0.065 - 0.070 |
| Poplar Creek             | 0.041 - 0.046 | 0.072 - 0.092 |
| Raccoon Run              | 0.046 - 0.062 | 0.075 - 0.080 |
| Rush Creek               | 0.035 - 0.055 | 0.046 - 0.120 |
| South Fork Licking River | 0.030 - 0.070 | 0.072 - 0.120 |

| Flooding Source                     | Channel “n”   | Overbank “n”  |
|-------------------------------------|---------------|---------------|
| Stonewall Creek                     | 0.032 - 0.042 | 0.032 - 0.070 |
| Sycamore Creek                      | 0.030 - 0.065 | 0.030 - 0.130 |
| Sycamore Creek Overflow             | 0.030 - 0.065 | 0.030 - 0.130 |
| Tarhe Run                           | 0.035         | 0.060         |
| Tributary A                         | 0.040 - 0.065 | 0.060 - 0.090 |
| Tributary B                         | 0.062 - 0.064 | 0.075 - 0.110 |
| Tributary H                         | 0.037 - 0.046 | 0.080 - 0.085 |
| Tributary I                         | 0.040 - 0.055 | 0.075 - 0.080 |
| Turkey Run                          | 0.042 - 0.046 | 0.080 - 0.090 |
| Unnamed Tributary to Sycamore Creek | 0.040         | 0.060 - 0.090 |
| Walnut Creek                        | 0.037 - 0.046 | 0.060 - 0.095 |
| Willow Run                          | 0.030 - 0.069 | 0.030 - 0.130 |
| Wilson Creek                        | 0.032 - 0.042 | 0.032 - 0.070 |
| All Other Base Studies              | 0.035         | 0.035 – 0.100 |

\* Data unavailable

### 5.3 Coastal Analyses

This section is not applicable to this FIS project

**Table 15: Summary of Coastal Analyses**  
**[Not Applicable to this FIS Project]**

#### 5.3.1 Total Stillwater Elevations

This section is not applicable to this FIS project

**Figure 8: 1% Annual Chance Total Stillwater Elevations for Coastal Areas**  
**[Not Applicable to this FIS Project]**

**Table 16: Tide Gage Analysis Specifics**  
**[Not Applicable to this FIS Project]**

#### 5.3.2 Waves

This section is not applicable to this FIS project

### **5.3.3 Coastal Erosion**

This section is not applicable to this FIS project

### **5.3.4 Wave Hazard Analyses**

This section is not applicable to this FIS project

**Table 17: Coastal Transect Parameters**  
**[Not Applicable to this FIS Project]**

**Figure 9: Transect Location Map**  
**[Not applicable to this Flood Risk Project]**

## **5.4 Alluvial Fan Analyses**

This section is not applicable to this FIS project

**Table 18: Summary of Alluvial Fan Analyses**  
**[Not applicable to this Flood Risk Project]**

**Table 19: Results of Alluvial Fan Analyses**  
**[Not applicable to this Flood Risk Project]**

## **SECTION 6.0 – MAPPING METHODS**

### **6.1 Vertical and Horizontal Control**

All FIS Reports and FIRMs are referenced to a specific vertical datum. The vertical datum provides a starting point against which flood, ground, and structure elevations can be referenced and compared. Until recently, the standard vertical datum used for newly created or revised FIS Reports and FIRMs was the National Geodetic Vertical Datum of 1929 (NGVD29). With the completion of the North American Vertical Datum of 1988 (NAVD88), many FIS Reports and FIRMs are now prepared using NAVD88 as the referenced vertical datum.

Flood elevations shown in this FIS Report and on the FIRMs are referenced to NAVD88. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between NGVD29 and NAVD88 or other datum conversion, visit the National Geodetic Survey website at [www.ngs.noaa.gov](http://www.ngs.noaa.gov), or contact the National Geodetic Survey (NGS) 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

Temporary vertical monuments are often established during the preparation of a flood hazard analysis for the purpose of establishing local vertical control. Although these monuments are not shown on the FIRM, they may be found in the archived project documentation associated with the FIS Report and the FIRMs for this community. Interested individuals may contact FEMA to access these data.

To obtain current elevation, description, and/or location information for benchmarks in the area, please contact information services Branch of the NGS at (301) 713-3242, or visit their website at [www.ngs.noaa.gov](http://www.ngs.noaa.gov).

The datum conversion locations and values that were calculated for Fairfield County are provided in Table 20.

**Table 20: Countywide Vertical Datum Conversion**

| Quadrangle Name                              | Quadrangle Corner | Latitude              | Longitude | Conversion from NGVD29 to NAVD88 (feet) |
|----------------------------------------------|-------------------|-----------------------|-----------|-----------------------------------------|
| Lancaster                                    | SE                | 39.625                | -82.5     | -0.581                                  |
| Amanda                                       | SE                | 39.625                | -82.625   | -0.512                                  |
| East Ringgold                                | SE                | 39.625                | -82.75    | -0.492                                  |
| Baltimore                                    | SE                | 39.75                 | -82.5     | -0.725                                  |
| Carroll                                      | SE                | 39.75                 | -82.625   | -0.630                                  |
| Canal Winchester                             | SE                | 39.75                 | -82.75    | -0.531                                  |
| Millersport                                  | SE                | 39.875                | -82.5     | -0.663                                  |
| Pataskala                                    | SE                | 39.875                | -82.625   | -0.640                                  |
| Reynoldsburg                                 | SE                | 39.875                | -82.75    | -0.627                                  |
| Bremen                                       | SE                | 39.625                | -82.375   | -0.771                                  |
| Ashville                                     | SE                | 39.625                | -82.875   | -0.492                                  |
| Rushville                                    | SE                | 39.75                 | -82.375   | -0.774                                  |
| Lockbourne                                   | SE                | 39.75                 | -82.875   | -0.538                                  |
| Range of Conversion Values                   |                   | -0.774 through -0.492 |           |                                         |
| Average Conversion from NGVD29 to NAVD88     |                   | -0.614 feet           |           |                                         |
| Maximum variance from the average conversion |                   | 0.16                  |           |                                         |
| Maximum variance from a non-conversion value |                   | 0.774                 |           |                                         |

**Table 21: Stream-Based Vertical Datum Conversion**  
**[Not applicable to this Flood Risk Project]**

## 6.2 Base Map

The FIRMs and FIS Report for this project have been produced in a digital format. The flood hazard information was converted to a Geographic Information System (GIS) format that meets FEMA’s FIRM database specifications and geographic information standards. This information is provided in a digital format so that it can be incorporated into a local GIS and be accessed more easily by the community. The FIRM Database includes most of the tabular information contained in the FIS Report in such a way that the data can be associated with pertinent spatial features. For example, the information contained in the Floodway Data table and Flood Profiles can be linked to the cross sections that are shown on the FIRMs. Additional information about the FIRM Database and its contents can be found in FEMA’s *Guidelines and Standards for Flood Risk Analysis and Mapping*, [www.fema.gov/guidelines-and-standards-flood-risk-analysis-and-mapping](http://www.fema.gov/guidelines-and-standards-flood-risk-analysis-and-mapping).

Base map information shown on the FIRM was derived from the sources described in Table 22.

**Table 22: Base Map Sources**

| Data Type                           | Data Provider                              | Data Date | Data Scale | Data Description                                               |
|-------------------------------------|--------------------------------------------|-----------|------------|----------------------------------------------------------------|
| County Digital Vector Datasets      | Fairfield County Auditor, GIS Department   | 2015      | 1:12,000   | Roads, PLSS sections, municipal boundaries, and water features |
| Digital Orthophoto                  | USDA/FSA - Aerial Photography Field Office | 2013      | 1:12,000   | Aerial imagery for Fairfield County                            |
| Effective Fairfield County Datasets | FEMA                                       | 2012      | 1:12,000   | Panel scheme, effective studies                                |

## 6.3 Floodplain and Floodway Delineation

The FIRM shows tints, screens, and symbols to indicate floodplains and floodways as well as the locations of selected cross sections used in the hydraulic analyses and floodway computations.

For riverine flooding sources, the mapped floodplain boundaries shown on the FIRM have been delineated using the flood elevations determined at each cross section; between cross sections, the boundaries were interpolated using the topographic elevation data described in Table 23.

In cases where the 1% and 0.2% annual chance floodplain boundaries are close together, only the 1% annual chance floodplain boundary has been shown. 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 floodway widths presented in this FIS Report and on the FIRM were computed for certain stream segments on the basis of equal conveyance reduction from each side of the floodplain.

Floodway widths were computed at cross sections. Between cross sections, the floodway boundaries were interpolated. Table 2 indicates the flooding sources for which floodways have been determined. The results of the floodway computations for those flooding sources have been tabulated for selected cross sections and are shown in Table 24, “Floodway Data.”

**Table 23: Summary of Topographic Elevation Data used in Mapping**

| Community                               | Flooding Source                          | Source for Topographic Elevation Data |                    |                      |                                |                       |                                                                                           |
|-----------------------------------------|------------------------------------------|---------------------------------------|--------------------|----------------------|--------------------------------|-----------------------|-------------------------------------------------------------------------------------------|
|                                         |                                          | Description                           | Scale              | Contour Interval     | RMSE <sub>z</sub>              | Accuracy <sub>z</sub> | Citation                                                                                  |
| Fairfield County and Incorporated Areas | All Flooding Sources in Fairfield County | LiDAR Data Collected in 2006          | 1:1,000 equivalent | 2 or 5 ft equivalent | 0.5 ft at 95% confidence level | ± 1 ft                | Ohio Office of Information Technology, Ohio Geographically Referenced Information Program |

BFEs shown at cross sections on the FIRM represent the 1% annual chance water surface elevations shown on the Flood Profiles and in the Floodway Data tables in the FIS Report.

| LOCATION                                              |                                                                                         | FLOODWAY        |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |          |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|----------|
| CROSS<br>SECTION                                      | DISTANCE <sup>1</sup>                                                                   | WIDTH<br>(FEET) | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE |
| BALDWIN RUN                                           |                                                                                         |                 |                            |                                |                                                                 |                     |                  |          |
| A                                                     | 1,100                                                                                   | 95              | 976                        | 7.4                            | 813.2                                                           | 813.2               | 814.2            | 1.0      |
| B                                                     | 2,250                                                                                   | 412             | 2,271                      | 3.2                            | 816.4                                                           | 816.4               | 817.4            | 1.0      |
| C                                                     | 3,230                                                                                   | 101             | 1,169                      | 6.2                            | 821.0                                                           | 821.0               | 822.0            | 1.0      |
| D                                                     | 4,155                                                                                   | 145             | 1,199                      | 6.1                            | 821.5                                                           | 821.5               | 822.5            | 1.0      |
| <sup>1</sup> Feet above confluence with Hocking River |                                                                                         |                 |                            |                                |                                                                 |                     |                  |          |
| TABLE 24                                              | FEDERAL EMERGENCY MANAGEMENT AGENCY<br>FAIRFIELD COUNTY, OHIO<br>AND INCORPORATED AREAS |                 |                            |                                | FLOODWAY DATA                                                   |                     |                  |          |
|                                                       |                                                                                         |                 |                            |                                | FLOODING SOURCE: BALDWIN RUN                                    |                     |                  |          |

| LOCATION                                             |                                                                                                | FLOODWAY        |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |          |
|------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|----------|
| CROSS<br>SECTION                                     | DISTANCE <sup>1</sup>                                                                          | WIDTH<br>(FEET) | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE |
| BALTIMORE<br>TRIBUTARY                               |                                                                                                |                 |                            |                                |                                                                 |                     |                  |          |
| A                                                    | 600                                                                                            | 80              | 564                        | 4.8                            | 848.7                                                           | 848.7               | 849.7            | 1.0      |
| B                                                    | 1,160                                                                                          | 79              | 719                        | 3.8                            | 849.3                                                           | 849.3               | 850.3            | 1.0      |
| C                                                    | 1,740                                                                                          | 687             | 4,075                      | 0.7                            | 851.4                                                           | 851.4               | 852.4            | 1.0      |
| D                                                    | 5,890                                                                                          | 100             | 516                        | 5.3                            | 862.9                                                           | 862.9               | 863.9            | 1.0      |
| E                                                    | 7,240                                                                                          | 61              | 398                        | 6.9                            | 868.0                                                           | 868.0               | 869.0            | 1.0      |
| <sup>1</sup> Feet above confluence with PawPaw Creek |                                                                                                |                 |                            |                                |                                                                 |                     |                  |          |
| TABLE 24                                             | FEDERAL EMERGENCY MANAGEMENT AGENCY<br><b>FAIRFIELD COUNTY, OHIO</b><br>AND INCORPORATED AREAS |                 |                            |                                | FLOODWAY DATA                                                   |                     |                  |          |
|                                                      |                                                                                                |                 |                            |                                | FLOODING SOURCE:<br>BALTIMORE TRIBUTARY                         |                     |                  |          |

| LOCATION         |                       | FLOODWAY        |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |          |
|------------------|-----------------------|-----------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|----------|
| CROSS<br>SECTION | DISTANCE <sup>1</sup> | WIDTH<br>(FEET) | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE |
| BLACKLICK CREEK  |                       |                 |                            |                                |                                                                 |                     |                  |          |
| A                | 47,500                | 455             | 2,233                      | 4.9                            | 804.0                                                           | 804.0               | 804.3            | 0.3      |
| B                | 50,985                | 480             | 2,167                      | 4.9                            | 814.4                                                           | 814.4               | 815.0            | 0.6      |
| C                | 55,430                | 480             | 3,013                      | 3.5                            | 825.6                                                           | 825.6               | 825.8            | 0.2      |
| D                | 56,630                | 480             | 1,828                      | 5.5                            | 827.9                                                           | 827.9               | 828.3            | 0.4      |
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|                  |                       |                 |                            |                                |                                                                 |                     |                  |          |
|                  |                       |                 |                            |                                |                                                                 |                     |                  |          |
|                  |                       |                 |                            |                                |                                                                 |                     |                  |          |
|                  |                       |                 |                            |                                |                                                                 |                     |                  |          |
|                  |                       |                 |                            |                                |                                                                 |                     |                  |          |

| LOCATION                                              |                                                                                         | FLOODWAY        |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |          |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|----------|
| CROSS<br>SECTION                                      | DISTANCE <sup>1</sup>                                                                   | WIDTH<br>(FEET) | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE |
| BLUE VALLEY LATERAL                                   |                                                                                         |                 |                            |                                |                                                                 |                     |                  |          |
| A                                                     | 500                                                                                     | 273             | 1,065                      | 2.1                            | 773.0                                                           | 773.0               | 773.5            | 0.5      |
| B                                                     | 4,250                                                                                   | 335             | 1,092                      | 2.1                            | 782.4                                                           | 782.4               | 782.9            | 0.5      |
| C                                                     | 6,180                                                                                   | 210             | 812                        | 3.2                            | 787.4                                                           | 787.4               | 787.9            | 0.5      |
| D                                                     | 10,380                                                                                  | 336             | 624                        | 2.8                            | 797.0                                                           | 797.0               | 797.5            | 0.5      |
| <sup>1</sup> Feet above confluence with Hocking River |                                                                                         |                 |                            |                                |                                                                 |                     |                  |          |
| TABLE 24                                              | FEDERAL EMERGENCY MANAGEMENT AGENCY<br>FAIRFIELD COUNTY, OHIO<br>AND INCORPORATED AREAS |                 |                            |                                | FLOODWAY DATA                                                   |                     |                  |          |
|                                                       |                                                                                         |                 |                            |                                | FLOODING SOURCE:<br>BLUE VALLEY LATERAL                         |                     |                  |          |

| LOCATION                                           |                                                                                         | FLOODWAY        |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |          |
|----------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|----------|
| CROSS<br>SECTION                                   | DISTANCE <sup>1</sup>                                                                   | WIDTH<br>(FEET) | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE |
| CLARK RUN<br>A                                     | 336                                                                                     | 44              | 234                        | 5.1                            | 796.9                                                           | 796.9               | 796.9            | 0.0      |
| <sup>1</sup> Feet above confluence with Rush Creek |                                                                                         |                 |                            |                                |                                                                 |                     |                  |          |
| TABLE 24                                           | FEDERAL EMERGENCY MANAGEMENT AGENCY<br>FAIRFIELD COUNTY, OHIO<br>AND INCORPORATED AREAS |                 |                            |                                | FLOODWAY DATA                                                   |                     |                  |          |
|                                                    |                                                                                         |                 |                            |                                | FLOODING SOURCE: CLARK RUN                                      |                     |                  |          |

| LOCATION                                                                                                                                |                                                                                                | FLOODWAY        |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                    |          |
|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|--------------------|----------|
| CROSS<br>SECTION                                                                                                                        | DISTANCE <sup>1</sup>                                                                          | WIDTH<br>(FEET) | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY   | INCREASE |
| CLAYPOOLS RUN                                                                                                                           |                                                                                                |                 |                            |                                |                                                                 |                     |                    |          |
| A                                                                                                                                       | 161                                                                                            | 500             | 1,318                      | 1.3                            | 838.3                                                           | 837.2 <sup>2</sup>  | 838.1 <sup>3</sup> | 0.9      |
| B                                                                                                                                       | 1,020                                                                                          | 199             | 643                        | 2.6                            | 838.3                                                           | 838.0 <sup>2</sup>  | 839.0 <sup>3</sup> | 1.0      |
| C                                                                                                                                       | 1,532                                                                                          | 60              | 229                        | 7.4                            | 839.3                                                           | 839.3               | 839.9              | 0.6      |
| D                                                                                                                                       | 1,737                                                                                          | 60              | 325                        | 5.2                            | 840.7                                                           | 840.7               | 841.2              | 0.5      |
| E                                                                                                                                       | 2,235                                                                                          | 48              | 294                        | 5.7                            | 841.4                                                           | 841.4               | 842.3              | 0.9      |
| F                                                                                                                                       | 2,782                                                                                          | 76              | 714                        | 2.4                            | 846.8                                                           | 846.8               | 847.6              | 0.8      |
| G                                                                                                                                       | 3,310                                                                                          | 133             | 1,023                      | 1.7                            | 846.9                                                           | 846.9               | 847.7              | 0.8      |
| H                                                                                                                                       | 5,141                                                                                          | 259             | 1,591                      | 1.1                            | 847.2                                                           | 847.2               | 848.1              | 0.8      |
| I                                                                                                                                       | 5,734                                                                                          | 175             | 895                        | 1.9                            | 847.3                                                           | 847.3               | 848.1              | 0.8      |
| J                                                                                                                                       | 5,827                                                                                          | 164             | 848                        | 2.0                            | 848.3                                                           | 848.3               | 849.0              | 0.6      |
| K                                                                                                                                       | 6,593                                                                                          | 162             | 668                        | 2.5                            | 848.7                                                           | 848.7               | 849.2              | 0.6      |
| L                                                                                                                                       | 7,707                                                                                          | 115             | 433                        | 3.9                            | 850.5                                                           | 850.5               | 851.1              | 0.6      |
| M                                                                                                                                       | 8,707                                                                                          | 129             | 641                        | 2.6                            | 855.0                                                           | 855.0               | 855.8              | 0.7      |
| N                                                                                                                                       | 9,916                                                                                          | 110             | 498                        | 3.4                            | 855.6                                                           | 855.6               | 856.4              | 0.9      |
| O                                                                                                                                       | 11,124                                                                                         | 115             | 561                        | 3.0                            | 858.2                                                           | 858.2               | 859.0              | 0.8      |
| P                                                                                                                                       | 12,552                                                                                         | 66              | 277                        | 5.5                            | 861.9                                                           | 861.9               | 862.8              | 0.9      |
| Q                                                                                                                                       | 13,769                                                                                         | 156             | 349                        | 4.4                            | 867.5                                                           | 867.5               | 868.1              | 0.6      |
| R                                                                                                                                       | 14,931                                                                                         | 50              | 222                        | 6.9                            | 871.3                                                           | 871.3               | 871.7              | 0.4      |
| S                                                                                                                                       | 15,881                                                                                         | 83              | 249                        | 6.2                            | 876.4                                                           | 876.4               | 876.7              | 0.4      |
| T                                                                                                                                       | 16,915                                                                                         | 89              | 330                        | 4.6                            | 883.1                                                           | 883.1               | 883.9              | 0.8      |
| U                                                                                                                                       | 17,907                                                                                         | 116             | 464                        | 3.3                            | 890.9                                                           | 890.9               | 890.9              | 0.0      |
| V                                                                                                                                       | 18,945                                                                                         | 99              | 220                        | 7.0                            | 898.9                                                           | 898.9               | 899.3              | 0.4      |
| W                                                                                                                                       | 19,799                                                                                         | 60              | 261                        | 5.9                            | 906.0                                                           | 906.0               | 906.6              | 0.5      |
| X                                                                                                                                       | 20,207                                                                                         | 50              | 241                        | 6.3                            | 909.2                                                           | 909.2               | 909.4              | 0.3      |
| <sup>1</sup> Feet above confluence with Hocking River <sup>2</sup> Elevations without considering backwater effects from the Ohio Canal |                                                                                                |                 |                            |                                |                                                                 |                     |                    |          |
| TABLE 24                                                                                                                                | FEDERAL EMERGENCY MANAGEMENT AGENCY<br><b>FAIRFIELD COUNTY, OHIO</b><br>AND INCORPORATED AREAS |                 |                            |                                | FLOODWAY DATA                                                   |                     |                    |          |
|                                                                                                                                         |                                                                                                |                 |                            |                                | FLOODING SOURCE: CLAYPOOLS RUN                                  |                     |                    |          |

| LOCATION                                            |                                                                                                | FLOODWAY        |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |          |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|----------|
| CROSS<br>SECTION                                    | DISTANCE <sup>1</sup>                                                                          | WIDTH<br>(FEET) | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE |
| CRUMLEY CREEK                                       |                                                                                                |                 |                            |                                |                                                                 |                     |                  |          |
| A                                                   | 84                                                                                             | 27              | 85                         | 8.0                            | 905.3                                                           | 905.3               | 905.3            | 0.0      |
| B                                                   | 417                                                                                            | 22              | 77                         | 8.8                            | 909.6                                                           | 909.6               | 909.7            | 0.0      |
| C                                                   | 823                                                                                            | 28              | 101                        | 6.7                            | 914.1                                                           | 914.1               | 914.2            | 0.1      |
| <sup>1</sup> Feet above confluence with Hunters Run |                                                                                                |                 |                            |                                |                                                                 |                     |                  |          |
| TABLE 24                                            | FEDERAL EMERGENCY MANAGEMENT AGENCY<br><b>FAIRFIELD COUNTY, OHIO</b><br>AND INCORPORATED AREAS |                 |                            |                                | FLOODWAY DATA                                                   |                     |                  |          |
|                                                     |                                                                                                |                 |                            |                                | FLOODING SOURCE: CRUMLEY CREEK                                  |                     |                  |          |

| LOCATION                                         |                                                                                                | FLOODWAY        |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |          |
|--------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|----------|
| CROSS<br>SECTION                                 | DISTANCE <sup>1</sup>                                                                          | WIDTH<br>(FEET) | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE |
| EWING RUN                                        |                                                                                                |                 |                            |                                |                                                                 |                     |                  |          |
| A                                                | 1,691                                                                                          | 84              | 514                        | 7.3                            | 827.1                                                           | 827.1               | 828.1            | 1.0      |
| B                                                | 3,231                                                                                          | 87              | 641                        | 5.8                            | 834.6                                                           | 834.6               | 835.6            | 1.0      |
| C                                                | 4,991                                                                                          | 45              | 317                        | 11.8                           | 842.5                                                           | 842.5               | 843.5            | 1.0      |
| D                                                | 6,491                                                                                          | 111             | 617                        | 6.1                            | 849.3                                                           | 849.3               | 850.3            | 1.0      |
| E                                                | 8,341                                                                                          | 125             | 741                        | 5.1                            | 856.5                                                           | 856.5               | 857.5            | 1.0      |
| F                                                | 10,251                                                                                         | 73              | 478                        | 7.1                            | 868.6                                                           | 868.6               | 869.6            | 1.0      |
| G                                                | 11,281                                                                                         | 95              | 722                        | 4.7                            | 872.2                                                           | 872.2               | 873.2            | 1.0      |
| H                                                | 12,401                                                                                         | 78              | 537                        | 6.3                            | 876.6                                                           | 876.6               | 877.6            | 1.0      |
| I                                                | 14,401                                                                                         | 87              | 501                        | 6.8                            | 889.4                                                           | 889.4               | 890.4            | 1.0      |
| J                                                | 16,161                                                                                         | 109             | 894                        | 2.2                            | 904.3                                                           | 904.3               | 905.3            | 1.0      |
| K                                                | 17,761                                                                                         | 66              | 242                        | 8.0                            | 911.1                                                           | 911.1               | 912.1            | 1.0      |
| <sup>1</sup> Feet above confluence of Feters Run |                                                                                                |                 |                            |                                |                                                                 |                     |                  |          |
| TABLE 24                                         | FEDERAL EMERGENCY MANAGEMENT AGENCY<br><b>FAIRFIELD COUNTY, OHIO</b><br>AND INCORPORATED AREAS |                 |                            |                                | FLOODWAY DATA                                                   |                     |                  |          |
|                                                  |                                                                                                |                 |                            |                                | FLOODING SOURCE: EWING RUN                                      |                     |                  |          |

| LOCATION                                          |                                                                                                 | FLOODWAY        |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |          |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|----------|
| CROSS<br>SECTION                                  | DISTANCE <sup>1</sup>                                                                           | WIDTH<br>(FEET) | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE |
| FETTERS RUN                                       |                                                                                                 |                 |                            |                                |                                                                 |                     |                  |          |
| A                                                 | 1,005                                                                                           | 211             | 950                        | 3.8                            | 823.7                                                           | 823.7               | 824.7            | 1.0      |
| B                                                 | 1,990                                                                                           | 74              | 501                        | 7.1                            | 827.0                                                           | 827.0               | 828.0            | 1.0      |
| C                                                 | 2,620                                                                                           | 85              | 525                        | 6.8                            | 828.5                                                           | 828.5               | 829.5            | 1.0      |
| D                                                 | 3,460                                                                                           | 56              | 462                        | 7.4                            | 831.3                                                           | 831.3               | 832.3            | 1.0      |
| E                                                 | 4,460                                                                                           | 126             | 621                        | 5.5                            | 834.4                                                           | 834.4               | 835.4            | 1.0      |
| F                                                 | 5,390                                                                                           | 70              | 465                        | 7.3                            | 839.3                                                           | 839.3               | 840.3            | 1.0      |
| G                                                 | 6,620                                                                                           | 49              | 397                        | 8.6                            | 848.0                                                           | 848.0               | 849.0            | 1.0      |
| H                                                 | 8,020                                                                                           | 82              | 520                        | 6.6                            | 854.5                                                           | 854.5               | 855.5            | 1.0      |
| I                                                 | 8,605                                                                                           | 57              | 441                        | 7.8                            | 856.1                                                           | 856.1               | 857.1            | 1.0      |
| J                                                 | 9,040                                                                                           | 78              | 516                        | 6.6                            | 859.3                                                           | 859.3               | 860.3            | 1.0      |
| K                                                 | 9,800                                                                                           | 148             | 751                        | 4.5                            | 863.0                                                           | 863.0               | 864.0            | 1.0      |
| L                                                 | 10,840                                                                                          | 52              | 375                        | 9.1                            | 867.5                                                           | 867.5               | 868.5            | 1.0      |
| M                                                 | 12,090                                                                                          | 65              | 503                        | 5.9                            | 873.9                                                           | 873.9               | 874.9            | 1.0      |
| N                                                 | 13,170                                                                                          | 91              | 567                        | 5.3                            | 878.0                                                           | 878.0               | 878.5            | 0.5      |
| O                                                 | 15,160                                                                                          | 66              | 317                        | 6.1                            | 887.9                                                           | 887.9               | 888.4            | 0.5      |
| P                                                 | 16,410                                                                                          | 44              | 262                        | 7.4                            | 896.4                                                           | 896.4               | 896.9            | 0.5      |
| Q                                                 | 18,110                                                                                          | 75              | 393                        | 4.9                            | 906.2                                                           | 906.2               | 906.7            | 0.5      |
| <sup>1</sup> Feet above confluence with Ewing Run |                                                                                                 |                 |                            |                                |                                                                 |                     |                  |          |
| TABLE 24                                          | FEDERAL EMERGENCY MANAGEMENT AGENCY<br><br>FAIRFIELD COUNTY, OHIO<br><br>AND INCORPORATED AREAS |                 |                            |                                | FLOODWAY DATA                                                   |                     |                  |          |
|                                                   |                                                                                                 |                 |                            |                                | FLOODING SOURCE: FETTERS RUN                                    |                     |                  |          |

| LOCATION                                                    |                                                                                                | FLOODWAY        |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |          |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|----------|
| CROSS<br>SECTION                                            | DISTANCE <sup>1</sup>                                                                          | WIDTH<br>(FEET) | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE |
| GEORGES CREEK                                               |                                                                                                |                 |                            |                                |                                                                 |                     |                  |          |
| A                                                           | 35,909                                                                                         | 174             | 344                        | 1.9                            | 793.0                                                           | 793.0               | 793.3            | 0.3      |
| B                                                           | 37,754                                                                                         | 24              | 102                        | 6.6                            | 798.9                                                           | 798.9               | 798.9            | 0.0      |
| C                                                           | 38,936                                                                                         | 26              | 105                        | 3.4                            | 803.3                                                           | 803.3               | 803.5            | 0.2      |
| D                                                           | 39,892                                                                                         | 91              | 135                        | 2.6                            | 806.7                                                           | 806.7               | 806.9            | 0.2      |
| E                                                           | 40,480                                                                                         | 66              | 121                        | 7.6                            | 808.8                                                           | 808.8               | 809.0            | 0.2      |
| <sup>1</sup> Feet above confluence with Little Walnut Creek |                                                                                                |                 |                            |                                |                                                                 |                     |                  |          |
| TABLE 24                                                    | FEDERAL EMERGENCY MANAGEMENT AGENCY<br><b>FAIRFIELD COUNTY, OHIO</b><br>AND INCORPORATED AREAS |                 |                            |                                | FLOODWAY DATA                                                   |                     |                  |          |
|                                                             |                                                                                                |                 |                            |                                | FLOODING SOURCE: GEORGES CREEK                                  |                     |                  |          |

| LOCATION                                                                                |                                                                                                | FLOODWAY         |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |                  |
|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|------------------|
| CROSS<br>SECTION                                                                        | DISTANCE <sup>1</sup>                                                                          | WIDTH<br>(FEET)  | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE         |
| GEORGES CREEK<br>OVERFLOW                                                               |                                                                                                |                  |                            |                                |                                                                 |                     |                  |                  |
| A                                                                                       | 4,000                                                                                          | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 802.7                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| B                                                                                       | 4,950                                                                                          | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 804.2                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| C                                                                                       | 5,830                                                                                          | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 806.5                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| <sup>1</sup> Feet above convergence with Blacklick Creek <sup>2</sup> No data available |                                                                                                |                  |                            |                                |                                                                 |                     |                  |                  |
| TABLE 24                                                                                | FEDERAL EMERGENCY MANAGEMENT AGENCY<br><b>FAIRFIELD COUNTY, OHIO</b><br>AND INCORPORATED AREAS |                  |                            |                                | FLOODWAY DATA                                                   |                     |                  |                  |
|                                                                                         |                                                                                                |                  |                            |                                | FLOODING SOURCE:<br>GEORGES CREEK OVERFLOW                      |                     |                  |                  |

| LOCATION                                               |                                                                                         | FLOODWAY        |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |          |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|----------|
| CROSS<br>SECTION                                       | DISTANCE <sup>1</sup>                                                                   | WIDTH<br>(FEET) | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE |
| GREENFIELD CREEK                                       |                                                                                         |                 |                            |                                |                                                                 |                     |                  |          |
| A                                                      | 784                                                                                     | 26              | 91                         | 2.8                            | 831.8                                                           | 831.8               | 831.8            | 0.1      |
| B                                                      | 2,142                                                                                   | 22              | 85                         | 3.0                            | 834.3                                                           | 834.3               | 835.1            | 0.8      |
| C                                                      | 2,696                                                                                   | 21              | 76                         | 3.3                            | 835.8                                                           | 835.8               | 836.3            | 0.5      |
| D                                                      | 4,377                                                                                   | 25              | 61                         | 4.2                            | 839.9                                                           | 839.9               | 840.1            | 0.2      |
| E                                                      | 5,639                                                                                   | 24              | 74                         | 3.5                            | 844.3                                                           | 844.3               | 844.3            | 0.0      |
| F                                                      | 6,424                                                                                   | 23              | 68                         | 3.7                            | 846.2                                                           | 846.2               | 846.3            | 0.0      |
| G                                                      | 7,867                                                                                   | 28              | 131                        | 2.0                            | 853.8                                                           | 853.8               | 853.8            | 0.0      |
| H                                                      | 9,629                                                                                   | 22              | 107                        | 5.5                            | 859.2                                                           | 859.2               | 859.4            | 0.3      |
| I                                                      | 11,215                                                                                  | 82              | 417                        | 1.0                            | 865.8                                                           | 865.8               | 866.8            | 0.9      |
| J                                                      | 13,347                                                                                  | 23              | 44                         | 3.8                            | 871.4                                                           | 871.4               | 871.4            | 0.0      |
| K                                                      | 14,615                                                                                  | 23              | 84                         | 5.2                            | 879.4                                                           | 879.4               | 879.7            | 0.3      |
| L                                                      | 14,705                                                                                  | 75              | 143                        | 3.0                            | 880.0                                                           | 880.0               | 880.6            | 0.6      |
| M                                                      | 15,069                                                                                  | 61              | 306                        | 0.7                            | 886.1                                                           | 886.1               | 887.1            | 1.0      |
| N                                                      | 16,190                                                                                  | 111             | 335                        | 0.7                            | 893.1                                                           | 893.1               | 894.1            | 1.0      |
| O                                                      | 17,123                                                                                  | 21              | 55                         | 4.2                            | 897.7                                                           | 897.7               | 897.7            | 0.0      |
| <sup>1</sup> Feet above confluence with the Ohio Canal |                                                                                         |                 |                            |                                |                                                                 |                     |                  |          |
| TABLE 24                                               | FEDERAL EMERGENCY MANAGEMENT AGENCY<br>FAIRFIELD COUNTY, OHIO<br>AND INCORPORATED AREAS |                 |                            |                                | FLOODWAY DATA                                                   |                     |                  |          |
|                                                        |                                                                                         |                 |                            |                                | FLOODING SOURCE:<br>GREENFIELD CREEK                            |                     |                  |          |

| LOCATION                                              |                                                                                                | FLOODWAY        |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |          |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|----------|
| CROSS<br>SECTION                                      | DISTANCE <sup>1</sup>                                                                          | WIDTH<br>(FEET) | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE |
| GREENFIELD CREEK<br>ESCAPE                            |                                                                                                |                 |                            |                                |                                                                 |                     |                  |          |
| A                                                     | 205                                                                                            | 20              | 50                         | 6.6                            | 842.1                                                           | 842.1               | 842.2            | 0.2      |
| B                                                     | 486                                                                                            | 20              | 51                         | 6.4                            | 844.1                                                           | 844.1               | 844.3            | 0.2      |
| C                                                     | 1,009                                                                                          | 71              | 187                        | 1.8                            | 848.3                                                           | 848.3               | 849.2            | 1.0      |
| D                                                     | 1,400                                                                                          | 27              | 108                        | 3.1                            | 849.0                                                           | 849.0               | 850.0            | 0.9      |
| E                                                     | 1,527                                                                                          | 75              | 199                        | 1.7                            | 849.7                                                           | 849.7               | 850.6            | 0.9      |
| F                                                     | 2,366                                                                                          | 155             | 465                        | 0.7                            | 849.9                                                           | 849.9               | 850.8            | 0.9      |
| G                                                     | 3,313                                                                                          | 167             | 545                        | 0.6                            | 849.9                                                           | 849.9               | 850.9            | 1.0      |
| H                                                     | 4,514                                                                                          | 73              | 277                        | 1.2                            | 850.1                                                           | 850.1               | 851.0            | 0.9      |
| I                                                     | 5,450                                                                                          | 34              | 98                         | 3.4                            | 851.5                                                           | 851.5               | 852.0            | 0.6      |
| <sup>1</sup> Feet above confluence with Claypools Run |                                                                                                |                 |                            |                                |                                                                 |                     |                  |          |
| TABLE 24                                              | FEDERAL EMERGENCY MANAGEMENT AGENCY<br><b>FAIRFIELD COUNTY, OHIO</b><br>AND INCORPORATED AREAS |                 |                            |                                | FLOODWAY DATA                                                   |                     |                  |          |
|                                                       |                                                                                                |                 |                            |                                | FLOODING SOURCE:<br>GREENFIELD CREEK ESCAPE                     |                     |                  |          |

| LOCATION                                                  |                                                                                         | FLOODWAY        |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |          |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|----------|
| CROSS<br>SECTION                                          | DISTANCE <sup>1</sup>                                                                   | WIDTH<br>(FEET) | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE |
| GREENFIELD<br>CREEK SPLIT                                 |                                                                                         |                 |                            |                                |                                                                 |                     |                  |          |
| A                                                         | 305                                                                                     | 196             | 492                        | 0.5                            | 865.9                                                           | 865.9               | 866.8            | 0.9      |
| B                                                         | 436                                                                                     | 64              | 206                        | 1.3                            | 865.9                                                           | 865.9               | 866.8            | 0.9      |
| C                                                         | 658                                                                                     | 73              | 138                        | 1.9                            | 866.2                                                           | 866.2               | 866.9            | 0.7      |
| D                                                         | 939                                                                                     | 127             | 179                        | 1.5                            | 866.8                                                           | 866.8               | 867.2            | 0.4      |
| E                                                         | 1,419                                                                                   | 288             | 257                        | 1.0                            | 867.0                                                           | 867.0               | 867.6            | 0.6      |
| F                                                         | 1,614                                                                                   | 310             | 345                        | 0.8                            | 867.3                                                           | 867.3               | 867.8            | 0.5      |
| G                                                         | 1,880                                                                                   | 253             | 100                        | 2.6                            | 870.7                                                           | 870.7               | 870.8            | 0.1      |
| H                                                         | 2,063                                                                                   | 158             | 123                        | 2.1                            | 872.5                                                           | 872.5               | 872.6            | 0.1      |
| <sup>1</sup> Feet above convergence with Greenfield Creek |                                                                                         |                 |                            |                                |                                                                 |                     |                  |          |
| TABLE 24                                                  | FEDERAL EMERGENCY MANAGEMENT AGENCY<br>FAIRFIELD COUNTY, OHIO<br>AND INCORPORATED AREAS |                 |                            |                                | FLOODWAY DATA                                                   |                     |                  |          |
|                                                           |                                                                                         |                 |                            |                                | FLOODING SOURCE:<br>GREENFIELD CREEK SPLIT                      |                     |                  |          |

| LOCATION                                |                                                                                                 | FLOODWAY        |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |          |
|-----------------------------------------|-------------------------------------------------------------------------------------------------|-----------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|----------|
| CROSS<br>SECTION                        | DISTANCE <sup>1</sup>                                                                           | WIDTH<br>(FEET) | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE |
| HOCKING RIVER                           |                                                                                                 |                 |                            |                                |                                                                 |                     |                  |          |
| A                                       | 2,000                                                                                           | 1,416           | 10,852                     | 1.6                            | 764.4                                                           | 764.4               | 764.9            | 0.5      |
| B                                       | 5,600                                                                                           | 1,163           | 8,895                      | 2.0                            | 766.3                                                           | 766.3               | 766.8            | 0.5      |
| C                                       | 8,580                                                                                           | 730             | 6,890                      | 1.8                            | 770.6                                                           | 770.6               | 770.6            | 0.0      |
| D                                       | 11,060                                                                                          | 300             | 6,445                      | 1.6                            | 771.7                                                           | 771.7               | 771.7            | 0.0      |
| E                                       | 16,110                                                                                          | 697             | 4,054                      | 3.3                            | 778.8                                                           | 778.8               | 779.3            | 0.5      |
| F                                       | 24,290                                                                                          | 1,180           | 5,720                      | 3.9                            | 787.9                                                           | 787.9               | 788.3            | 0.4      |
| G                                       | 26,700                                                                                          | 290             | 1,726                      | 7.7                            | 791.3                                                           | 791.3               | 791.7            | 0.4      |
| H                                       | 27,600                                                                                          | 570             | 3,446                      | 3.4                            | 793.3                                                           | 793.3               | 793.7            | 0.4      |
| I                                       | 32,200                                                                                          | 550             | 3,100                      | 4.4                            | 798.9                                                           | 798.9               | 799.3            | 0.4      |
| J                                       | 34,450                                                                                          | 912             | 5,288                      | 2.1                            | 800.7                                                           | 800.7               | 801.2            | 0.5      |
| K                                       | 38,850                                                                                          | 1,024           | 5,529                      | 2.0                            | 804.1                                                           | 804.1               | 804.6            | 0.5      |
| L                                       | 42,375                                                                                          | 132             | 1,184                      | 4.3                            | 808.5                                                           | 808.5               | 809.0            | 0.5      |
| M                                       | 44,192                                                                                          | 80              | 958                        | 5.4                            | 809.2                                                           | 809.2               | 809.9            | 0.7      |
| N                                       | 44,942                                                                                          | 77              | 814                        | 5.3                            | 810.0                                                           | 810.0               | 810.7            | 0.7      |
| O                                       | 45,494                                                                                          | 60              | 770                        | 5.6                            | 810.5                                                           | 810.5               | 811.3            | 0.7      |
| P                                       | 46,759                                                                                          | 55              | 757                        | 5.7                            | 811.7                                                           | 811.7               | 812.5            | 0.8      |
| Q                                       | 47,242                                                                                          | 95              | 928                        | 4.7                            | 812.3                                                           | 812.3               | 813.0            | 0.7      |
| R                                       | 48,212                                                                                          | 107             | 902                        | 4.6                            | 813.1                                                           | 813.1               | 813.8            | 0.8      |
| S                                       | 49,252                                                                                          | 64              | 854                        | 4.8                            | 813.9                                                           | 813.9               | 814.6            | 0.8      |
| T                                       | 50,853                                                                                          | 176             | 1,651                      | 2.5                            | 814.9                                                           | 814.9               | 815.8            | 0.9      |
| U                                       | 51,368                                                                                          | 194             | 1,318                      | 3.1                            | 814.9                                                           | 814.9               | 815.8            | 0.9      |
| V                                       | 52,797                                                                                          | 60              | 767                        | 4.4                            | 816.3                                                           | 816.3               | 817.1            | 0.8      |
| W                                       | 53,281                                                                                          | 50              | 717                        | 4.7                            | 816.6                                                           | 816.6               | 817.4            | 0.8      |
| X                                       | 53,961                                                                                          | 128             | 1,028                      | 3.3                            | 817.3                                                           | 817.3               | 818.0            | 0.7      |
| Y                                       | 54,563                                                                                          | 89              | 954                        | 3.5                            | 817.8                                                           | 817.8               | 818.5            | 0.7      |
| <sup>1</sup> Feet above county boundary |                                                                                                 |                 |                            |                                |                                                                 |                     |                  |          |
| TABLE 24                                | FEDERAL EMERGENCY MANAGEMENT AGENCY<br><br>FAIRFIELD COUNTY, OHIO<br><br>AND INCORPORATED AREAS |                 |                            |                                | FLOODWAY DATA                                                   |                     |                  |          |
|                                         |                                                                                                 |                 |                            |                                | FLOODING SOURCE: HOCKING RIVER                                  |                     |                  |          |

| LOCATION                                |                                                                                                 | FLOODWAY        |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |          |
|-----------------------------------------|-------------------------------------------------------------------------------------------------|-----------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|----------|
| CROSS<br>SECTION                        | DISTANCE <sup>1</sup>                                                                           | WIDTH<br>(FEET) | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE |
| HOCKING RIVER<br>(CONTINUED)            |                                                                                                 |                 |                            |                                |                                                                 |                     |                  |          |
| Z                                       | 55,623                                                                                          | 175             | 1,339                      | 2.5                            | 818.2                                                           | 818.2               | 818.8            | 0.7      |
| AA                                      | 56,915                                                                                          | 212             | 1,815                      | 1.9                            | 818.8                                                           | 818.8               | 819.6            | 0.7      |
| AB                                      | 58,620                                                                                          | 128             | 1,025                      | 3.3                            | 818.8                                                           | 818.8               | 819.6            | 0.8      |
| AC                                      | 59,807                                                                                          | 109             | 859                        | 3.9                            | 819.6                                                           | 819.6               | 820.4            | 0.8      |
| AD                                      | 61,329                                                                                          | 140             | 973                        | 3.5                            | 820.4                                                           | 820.4               | 821.2            | 0.8      |
| AE                                      | 61,534                                                                                          | 291             | 1,805                      | 1.9                            | 821.0                                                           | 821.0               | 821.8            | 0.8      |
| AF                                      | 62,613                                                                                          | 378             | 3,957                      | 0.9                            | 821.1                                                           | 821.1               | 821.9            | 0.8      |
| AG                                      | 65,584                                                                                          | 210             | 1,739                      | 1.7                            | 821.1                                                           | 821.1               | 821.9            | 0.8      |
| AH                                      | 65,898                                                                                          | 71              | 510                        | 5.8                            | 821.1                                                           | 821.1               | 821.9            | 0.8      |
| AI                                      | 67,371                                                                                          | 172             | 968                        | 3.1                            | 823.2                                                           | 823.2               | 823.9            | 0.7      |
| AJ                                      | 68,130                                                                                          | 119             | 792                        | 3.7                            | 823.8                                                           | 823.8               | 824.3            | 0.5      |
| AK                                      | 70,592                                                                                          | 176             | 952                        | 3.1                            | 825.2                                                           | 825.2               | 826.3            | 0.9      |
| AL                                      | 73,043                                                                                          | 597             | 1,229                      | 1.2                            | 827.6                                                           | 827.6               | 828.0            | 0.4      |
| AM                                      | 74,286                                                                                          | 431             | 737                        | 2.0                            | 829.2                                                           | 829.2               | 829.3            | 0.0      |
| AN                                      | 76,048                                                                                          | 184             | 526                        | 2.8                            | 832.9                                                           | 832.9               | 833.6            | 0.7      |
| AO                                      | 77,684                                                                                          | 510             | 1,168                      | 1.3                            | 838.4                                                           | 838.4               | 838.5            | 0.1      |
| AP                                      | 79,205                                                                                          | 128             | 466                        | 3.2                            | 841.3                                                           | 841.3               | 841.8            | 0.5      |
| AQ                                      | 82,338                                                                                          | 45              | 219                        | 6.7                            | 849.1                                                           | 849.1               | 849.3            | 0.2      |
| AR                                      | 84,201                                                                                          | 44              | 291                        | 5.1                            | 856.5                                                           | 856.5               | 857.1            | 0.6      |
| AS                                      | 85,586                                                                                          | 42              | 226                        | 6.5                            | 860.6                                                           | 860.6               | 861.1            | 0.6      |
| AT                                      | 87,322                                                                                          | 92              | 356                        | 4.2                            | 866.5                                                           | 866.5               | 867.1            | 0.5      |
| AU                                      | 88,370                                                                                          | 55              | 235                        | 6.3                            | 871.1                                                           | 871.1               | 871.9            | 0.8      |
| AV                                      | 89,387                                                                                          | 44              | 213                        | 6.9                            | 875.7                                                           | 875.7               | 876.1            | 0.4      |
| AW                                      | 90,489                                                                                          | 43              | 208                        | 7.1                            | 880.9                                                           | 880.9               | 881.6            | 0.7      |
| AX                                      | 91,723                                                                                          | 27              | 122                        | 8.4                            | 886.5                                                           | 886.5               | 886.8            | 0.3      |
| <sup>1</sup> Feet above county boundary |                                                                                                 |                 |                            |                                |                                                                 |                     |                  |          |
| TABLE 24                                | FEDERAL EMERGENCY MANAGEMENT AGENCY<br><br>FAIRFIELD COUNTY, OHIO<br><br>AND INCORPORATED AREAS |                 |                            |                                | FLOODWAY DATA                                                   |                     |                  |          |
|                                         |                                                                                                 |                 |                            |                                | FLOODING SOURCE: HOCKING RIVER                                  |                     |                  |          |

| LOCATION                                              |                                                                                         | FLOODWAY        |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |          |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|----------|
| CROSS<br>SECTION                                      | DISTANCE <sup>1</sup>                                                                   | WIDTH<br>(FEET) | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE |
| HOCKING RIVER<br>DIVERSION<br>A<br>B                  | 1,100                                                                                   | 370             | 2,936                      | 1.6                            | 772.6                                                           | 772.6               | 772.6            | 0.0      |
|                                                       | 5,100                                                                                   | 780             | 3,706                      | 1.3                            | 775.8                                                           | 775.8               | 775.8            | 0.0      |
| <sup>1</sup> Feet above confluence with Hocking River |                                                                                         |                 |                            |                                |                                                                 |                     |                  |          |
| TABLE 24                                              | FEDERAL EMERGENCY MANAGEMENT AGENCY<br>FAIRFIELD COUNTY, OHIO<br>AND INCORPORATED AREAS |                 |                            |                                | FLOODWAY DATA                                                   |                     |                  |          |
|                                                       |                                                                                         |                 |                            |                                | FLOODING SOURCE:<br>HOCKING RIVER DIVERSION                     |                     |                  |          |

| LOCATION                   |                       | FLOODWAY        |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |          |
|----------------------------|-----------------------|-----------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|----------|
| CROSS<br>SECTION           | DISTANCE <sup>1</sup> | WIDTH<br>(FEET) | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE |
| HOCKING RIVER<br>LATERAL A |                       |                 |                            |                                |                                                                 |                     |                  |          |
| A                          | 1,000                 | 159             | 950                        | 1.1                            | 823.2                                                           | 823.2               | 824.2            | 1.0      |
| B                          | 2,381                 | 42              | 268                        | 4.0                            | 831.6                                                           | 831.6               | 832.6            | 1.0      |
| C                          | 3,881                 | 65              | 244                        | 4.4                            | 843.1                                                           | 843.1               | 844.1            | 1.0      |
| D                          | 4,581                 | 28              | 147                        | 7.3                            | 849.5                                                           | 849.5               | 850.5            | 1.0      |
| E                          | 5,181                 | 69              | 362                        | 2.9                            | 853.2                                                           | 853.2               | 854.2            | 1.0      |
| F                          | 5,914                 | 56              | 363                        | 2.9                            | 856.2                                                           | 856.2               | 857.2            | 1.0      |
| G                          | 7,176                 | 59              | 263                        | 4.7                            | 862.7                                                           | 862.7               | 863.7            | 1.0      |
| H                          | 7,686                 | 165             | 391                        | 2.7                            | 865.8                                                           | 865.8               | 866.8            | 1.0      |
|                            |                       |                 |                            |                                |                                                                 |                     |                  |          |
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| LOCATION                                              |                                                                                         | FLOODWAY        |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |          |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|----------|
| CROSS<br>SECTION                                      | DISTANCE <sup>1</sup>                                                                   | WIDTH<br>(FEET) | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE |
| HOCKING RIVER<br>LATERAL B                            |                                                                                         |                 |                            |                                |                                                                 |                     |                  |          |
| A                                                     | 750                                                                                     | 40              | 288                        | 2.4                            | 823.5                                                           | 823.5               | 824.5            | 1.0      |
| B                                                     | 1,564                                                                                   | 38              | 244                        | 2.8                            | 829.1                                                           | 829.1               | 830.1            | 1.0      |
| C                                                     | 2,118                                                                                   | 99              | 604                        | 1.1                            | 829.9                                                           | 829.9               | 830.9            | 1.0      |
| D                                                     | 2,791                                                                                   | 144             | 1,093                      | 0.6                            | 835.5                                                           | 835.5               | 836.5            | 1.0      |
| E                                                     | 4,521                                                                                   | 31              | 158                        | 4.4                            | 840.1                                                           | 840.1               | 841.1            | 1.0      |
| F                                                     | 5,312                                                                                   | 83              | 545                        | 1.3                            | 848.4                                                           | 848.4               | 849.4            | 1.0      |
| G                                                     | 6,187                                                                                   | 86              | 374                        | 1.9                            | 851.1                                                           | 851.1               | 852.1            | 1.0      |
| H                                                     | 7,390                                                                                   | 55              | 246                        | 2.9                            | 855.9                                                           | 855.9               | 856.9            | 1.0      |
| I                                                     | 8,325                                                                                   | 39              | 191                        | 3.8                            | 860.1                                                           | 860.1               | 861.1            | 1.0      |
| <sup>1</sup> Feet above confluence with Hocking River |                                                                                         |                 |                            |                                |                                                                 |                     |                  |          |
| TABLE 24                                              | FEDERAL EMERGENCY MANAGEMENT AGENCY<br>FAIRFIELD COUNTY, OHIO<br>AND INCORPORATED AREAS |                 |                            |                                | FLOODWAY DATA                                                   |                     |                  |          |
|                                                       |                                                                                         |                 |                            |                                | FLOODING SOURCE:<br>HOCKING RIVER LATERAL B                     |                     |                  |          |

| LOCATION                                              |                                                                                         | FLOODWAY        |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |          |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|----------|
| CROSS<br>SECTION                                      | DISTANCE <sup>1</sup>                                                                   | WIDTH<br>(FEET) | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE |
| HOCKING RIVER<br>LATERAL D                            |                                                                                         |                 |                            |                                |                                                                 |                     |                  |          |
| A                                                     | 4,139                                                                                   | 189             | 189                        | 2.6                            | 833.3                                                           | 833.3               | 834.3            | 1.0      |
| B                                                     | 4,814                                                                                   | 114             | 558                        | 3.1                            | 835.5                                                           | 835.5               | 836.5            | 1.0      |
| C                                                     | 6,314                                                                                   | 135             | 919                        | 1.9                            | 841.2                                                           | 841.2               | 842.2            | 1.0      |
| D                                                     | 8,299                                                                                   | 132             | 510                        | 3.4                            | 848.4                                                           | 848.4               | 848.9            | 0.5      |
| E                                                     | 9,799                                                                                   | 127             | 510                        | 3.4                            | 855.6                                                           | 855.6               | 856.1            | 0.5      |
| F                                                     | 10,749                                                                                  | 102             | 410                        | 3.9                            | 860.1                                                           | 860.1               | 860.6            | 0.5      |
| G                                                     | 12,099                                                                                  | 190             | 538                        | 4.5                            | 864.6                                                           | 864.6               | 865.1            | 0.5      |
| H                                                     | 13,349                                                                                  | 96              | 900                        | 1.8                            | 866.1                                                           | 866.1               | 866.6            | 0.5      |
| I                                                     | 13,949                                                                                  | 130             | 1,540                      | 1.0                            | 866.7                                                           | 866.7               | 867.2            | 0.5      |
| J                                                     | 15,179                                                                                  | 86              | 1,303                      | 1.2                            | 869.2                                                           | 869.2               | 869.7            | 0.5      |
| K                                                     | 16,599                                                                                  | 270             | 615                        | 2.6                            | 873.3                                                           | 873.3               | 873.8            | 0.5      |
| L                                                     | 18,199                                                                                  | 45              | 155                        | 8.4                            | 880.4                                                           | 880.4               | 880.9            | 0.5      |
| <sup>1</sup> Feet above confluence with Hocking River |                                                                                         |                 |                            |                                |                                                                 |                     |                  |          |
| TABLE 24                                              | FEDERAL EMERGENCY MANAGEMENT AGENCY<br>FAIRFIELD COUNTY, OHIO<br>AND INCORPORATED AREAS |                 |                            |                                | FLOODWAY DATA                                                   |                     |                  |          |
|                                                       |                                                                                         |                 |                            |                                | FLOODING SOURCE:<br>HOCKING RIVER LATERAL D                     |                     |                  |          |

| LOCATION                                                |                                                                                                 | FLOODWAY        |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |          |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|----------|
| CROSS<br>SECTION                                        | DISTANCE <sup>1</sup>                                                                           | WIDTH<br>(FEET) | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE |
| HUNTERS RUN                                             |                                                                                                 |                 |                            |                                |                                                                 |                     |                  |          |
| A                                                       | 1,064                                                                                           | 37              | 328                        | 7.5                            | 815.1                                                           | 815.1               | 816.1            | 1.0      |
| B                                                       | 1,512                                                                                           | 38              | 342                        | 7.2                            | 817.0                                                           | 817.0               | 817.6            | 0.6      |
| C                                                       | 2,289                                                                                           | 54              | 441                        | 5.6                            | 819.4                                                           | 819.4               | 820.2            | 0.8      |
| D                                                       | 3,397                                                                                           | 40              | 385                        | 6.4                            | 821.9                                                           | 821.9               | 822.6            | 0.7      |
| E                                                       | 4,957                                                                                           | 74              | 597                        | 4.1                            | 825.4                                                           | 825.4               | 826.1            | 0.7      |
| F                                                       | 6,348                                                                                           | 42              | 304                        | 8.1                            | 829.6                                                           | 829.6               | 830.3            | 0.7      |
| G                                                       | 6,781                                                                                           | 55              | 396                        | 6.2                            | 832.3                                                           | 832.3               | 833.2            | 1.0      |
| H                                                       | 7,248                                                                                           | 50              | 293                        | 8.4                            | 833.5                                                           | 833.5               | 834.2            | 0.7      |
| I                                                       | 8,261                                                                                           | 63              | 361                        | 6.8                            | 837.7                                                           | 837.7               | 838.4            | 0.8      |
| J                                                       | 9,587                                                                                           | 68              | 362                        | 6.8                            | 844.3                                                           | 844.3               | 844.5            | 0.2      |
| K                                                       | 10,057                                                                                          | 67              | 450                        | 5.4                            | 846.9                                                           | 846.9               | 847.0            | 0.2      |
| L                                                       | 11,810                                                                                          | 62              | 357                        | 6.9                            | 851.7                                                           | 851.7               | 852.7            | 1.0      |
| M                                                       | 12,683                                                                                          | 55              | 385                        | 6.4                            | 854.8                                                           | 854.8               | 855.7            | 0.9      |
| N                                                       | 13,444                                                                                          | 41              | 317                        | 7.7                            | 858.2                                                           | 858.2               | 859.0            | 0.8      |
| O                                                       | 14,705                                                                                          | 35              | 223                        | 7.9                            | 861.8                                                           | 861.8               | 862.5            | 0.7      |
| P                                                       | 16,895                                                                                          | 35              | 246                        | 7.2                            | 869.8                                                           | 869.8               | 870.5            | 0.7      |
| Q                                                       | 17,930                                                                                          | 35              | 266                        | 6.6                            | 873.8                                                           | 873.8               | 874.1            | 0.3      |
| R                                                       | 18,727                                                                                          | 36              | 248                        | 7.1                            | 875.6                                                           | 875.6               | 875.9            | 0.3      |
| S                                                       | 25,691                                                                                          | 64              | 252                        | 5.3                            | 898.8                                                           | 898.8               | 899.2            | 0.4      |
| T                                                       | 26,807                                                                                          | 30              | 197                        | 6.8                            | 904.3                                                           | 904.3               | 904.4            | 0.0      |
| U                                                       | 28,298                                                                                          | 30              | 140                        | 5.7                            | 909.7                                                           | 909.7               | 909.7            | 0.0      |
| V                                                       | 29,086                                                                                          | 32              | 140                        | 5.7                            | 913.3                                                           | 913.3               | 913.3            | 0.1      |
| W                                                       | 30,711                                                                                          | 125             | 681                        | 1.2                            | 925.2                                                           | 925.2               | 926.2            | 1.0      |
| X                                                       | 32,335                                                                                          | 161             | 194                        | 4.1                            | 928.9                                                           | 928.9               | 929.0            | 0.1      |
| Y                                                       | 33,244                                                                                          | 30              | 94                         | 5.9                            | 934.1                                                           | 934.1               | 934.4            | 0.4      |
| Z                                                       | 34,179                                                                                          | 30              | 96                         | 5.7                            | 940.5                                                           | 940.5               | 940.5            | 0.0      |
| <sup>1</sup> Feet above confluence of the Hocking River |                                                                                                 |                 |                            |                                |                                                                 |                     |                  |          |
| TABLE 24                                                | FEDERAL EMERGENCY MANAGEMENT AGENCY<br><br>FAIRFIELD COUNTY, OHIO<br><br>AND INCORPORATED AREAS |                 |                            |                                | FLOODWAY DATA                                                   |                     |                  |          |
|                                                         |                                                                                                 |                 |                            |                                | FLOODING SOURCE: HUNTERS RUN                                    |                     |                  |          |

| LOCATION                                                |                                                                                                | FLOODWAY        |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |          |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|----------|
| CROSS<br>SECTION                                        | DISTANCE <sup>1</sup>                                                                          | WIDTH<br>(FEET) | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE |
| HUNTERS RUN<br>(CONTINUED)                              |                                                                                                |                 |                            |                                |                                                                 |                     |                  |          |
| AA                                                      | 35,180                                                                                         | 32              | 98                         | 5.6                            | 948.3                                                           | 948.3               | 948.4            | 0.1      |
| AB                                                      | 35,579                                                                                         | 30              | 88                         | 6.2                            | 951.4                                                           | 951.4               | 951.6            | 0.1      |
| AC                                                      | 36,471                                                                                         | 31              | 93                         | 5.9                            | 958.6                                                           | 958.6               | 958.7            | 0.1      |
| AD                                                      | 37,218                                                                                         | 30              | 82                         | 6.7                            | 964.5                                                           | 964.5               | 964.5            | 0.0      |
| <sup>1</sup> Feet above confluence of the Hocking River |                                                                                                |                 |                            |                                |                                                                 |                     |                  |          |
| TABLE 24                                                | FEDERAL EMERGENCY MANAGEMENT AGENCY<br><b>FAIRFIELD COUNTY, OHIO</b><br>AND INCORPORATED AREAS |                 |                            |                                | FLOODWAY DATA                                                   |                     |                  |          |
|                                                         |                                                                                                |                 |                            |                                | FLOODING SOURCE: HUNTERS RUN                                    |                     |                  |          |

| LOCATION                                                                          |                                                                                                | FLOODWAY         |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |                  |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|------------------|
| CROSS<br>SECTION                                                                  | DISTANCE <sup>1</sup>                                                                          | WIDTH<br>(FEET)  | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE         |
| LITTLE RUSH CREEK                                                                 |                                                                                                |                  |                            |                                |                                                                 |                     |                  |                  |
| A                                                                                 | 1,300                                                                                          | 516              | 2,836                      | 1.8                            | 795.5                                                           | 795.5               | 796.5            | 1.0              |
| B                                                                                 | 5,100                                                                                          | 300              | 1,228                      | 4.2                            | 800.8                                                           | 800.8               | 801.4            | 0.6              |
| C                                                                                 | 8,420                                                                                          | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 809.8                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| D                                                                                 | 9,650                                                                                          | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 812.9                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| E                                                                                 | 18,490                                                                                         | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 843.5                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| F                                                                                 | 24,740                                                                                         | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 857.0                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| G                                                                                 | 25,670                                                                                         | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 858.8                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| H                                                                                 | 27,300                                                                                         | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 861.3                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| I                                                                                 | 32,570                                                                                         | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 865.5                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| J                                                                                 | 38,710                                                                                         | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 871.9                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| K                                                                                 | 54,090                                                                                         | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 901.4                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| <sup>1</sup> Feet above confluence with Rush Creek <sup>2</sup> No data available |                                                                                                |                  |                            |                                |                                                                 |                     |                  |                  |
| TABLE 24                                                                          | FEDERAL EMERGENCY MANAGEMENT AGENCY<br><b>FAIRFIELD COUNTY, OHIO</b><br>AND INCORPORATED AREAS |                  |                            |                                | FLOODWAY DATA                                                   |                     |                  |                  |
|                                                                                   |                                                                                                |                  |                            |                                | FLOODING SOURCE:<br>LITTLE RUSH CREEK                           |                     |                  |                  |

| LOCATION                                             |                                                                                                | FLOODWAY        |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |          |
|------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|----------|
| CROSS<br>SECTION                                     | DISTANCE <sup>1</sup>                                                                          | WIDTH<br>(FEET) | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE |
| LITTLE WALNUT CREEK                                  |                                                                                                |                 |                            |                                |                                                                 |                     |                  |          |
| A                                                    | 3,050                                                                                          | 299             | 2,281                      | 2.1                            | 863.7                                                           | 863.7               | 864.7            | 1.0      |
| B                                                    | 5,250                                                                                          | 330             | 2,212                      | 2.2                            | 864.8                                                           | 864.8               | 865.8            | 1.0      |
| C                                                    | 7,400                                                                                          | 467             | 2,873                      | 1.7                            | 866.3                                                           | 866.3               | 867.3            | 1.0      |
| D                                                    | 9,250                                                                                          | 461             | 2,641                      | 1.8                            | 868.1                                                           | 868.1               | 869.1            | 1.0      |
| E                                                    | 11,650                                                                                         | 283             | 1,722                      | 2.7                            | 872.1                                                           | 872.1               | 873.1            | 1.0      |
| F                                                    | 12,960                                                                                         | 446             | 2,723                      | 1.7                            | 873.2                                                           | 873.2               | 874.2            | 1.0      |
| G                                                    | 14,650                                                                                         | 221             | 1,265                      | 3.2                            | 875.2                                                           | 875.2               | 876.2            | 1.0      |
| H                                                    | 15,490                                                                                         | 134             | 879                        | 4.5                            | 877.1                                                           | 877.1               | 878.1            | 1.0      |
| I                                                    | 17,490                                                                                         | 153             | 792                        | 3.4                            | 880.5                                                           | 880.5               | 881.5            | 1.0      |
| J                                                    | 18,470                                                                                         | 159             | 899                        | 3.0                            | 884.7                                                           | 884.7               | 885.7            | 1.0      |
| K                                                    | 20,360                                                                                         | 93              | 522                        | 5.2                            | 890.4                                                           | 890.4               | 891.4            | 1.0      |
| <sup>1</sup> Feet above confluence with Walnut Creek |                                                                                                |                 |                            |                                |                                                                 |                     |                  |          |
| TABLE 24                                             | FEDERAL EMERGENCY MANAGEMENT AGENCY<br><b>FAIRFIELD COUNTY, OHIO</b><br>AND INCORPORATED AREAS |                 |                            |                                | FLOODWAY DATA                                                   |                     |                  |          |
|                                                      |                                                                                                |                 |                            |                                | FLOODING SOURCE:<br>LITTLE WALNUT CREEK                         |                     |                  |          |

| LOCATION                                                |                                                                                                | FLOODWAY        |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |          |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|----------|
| CROSS<br>SECTION                                        | DISTANCE <sup>1</sup>                                                                          | WIDTH<br>(FEET) | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE |
| OHIO CANAL                                              |                                                                                                |                 |                            |                                |                                                                 |                     |                  |          |
| A                                                       | 1,376                                                                                          | 111             | 608                        | 2.4                            | 828.6                                                           | 828.6               | 828.7            | 0.1      |
| B                                                       | 2,609                                                                                          | 186             | 679                        | 2.1                            | 829.6                                                           | 829.6               | 830.4            | 0.8      |
| C                                                       | 4,772                                                                                          | 34              | 283                        | 3.8                            | 834.6                                                           | 834.6               | 835.5            | 1.0      |
| D                                                       | 5,495                                                                                          | 44              | 283                        | 4.6                            | 835.5                                                           | 835.5               | 836.3            | 0.8      |
| E                                                       | 6,885                                                                                          | 379             | 1,683                      | 0.8                            | 837.7                                                           | 837.7               | 838.4            | 0.6      |
| F                                                       | 8,883                                                                                          | 250             | 1,101                      | 1.2                            | 837.9                                                           | 837.9               | 838.6            | 0.8      |
| G                                                       | 10,241                                                                                         | 403             | 1,279                      | 1.0                            | 838.0                                                           | 838.0               | 838.9            | 0.9      |
| H                                                       | 12,675                                                                                         | 440             | 1,245                      | 1.0                            | 839.0                                                           | 839.0               | 840.0            | 1.0      |
| <sup>1</sup> Feet above confluence of the Hocking River |                                                                                                |                 |                            |                                |                                                                 |                     |                  |          |
| TABLE 24                                                | FEDERAL EMERGENCY MANAGEMENT AGENCY<br><b>FAIRFIELD COUNTY, OHIO</b><br>AND INCORPORATED AREAS |                 |                            |                                | FLOODWAY DATA                                                   |                     |                  |          |
|                                                         |                                                                                                |                 |                            |                                | FLOODING SOURCE: OHIO CANAL                                     |                     |                  |          |

| LOCATION                                           |                                                                                         | FLOODWAY        |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |          |
|----------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|----------|
| CROSS<br>SECTION                                   | DISTANCE <sup>1</sup>                                                                   | WIDTH<br>(FEET) | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE |
| OHIO CANAL<br>LATERAL A                            |                                                                                         |                 |                            |                                |                                                                 |                     |                  |          |
| A                                                  | 1,600                                                                                   | 114             | 525                        | 2.8                            | 848.9                                                           | 848.9               | 849.4            | 0.5      |
| B                                                  | 3,425                                                                                   | 117             | 631                        | 1.2                            | 856.3                                                           | 856.3               | 856.8            | 0.5      |
| C                                                  | 4,825                                                                                   | 120             | 450                        | 1.5                            | 860.0                                                           | 860.0               | 860.5            | 0.5      |
| D                                                  | 6,450                                                                                   | 40              | 135                        | 5.1                            | 868.4                                                           | 868.4               | 868.9            | 0.5      |
| E                                                  | 9,275                                                                                   | 184             | 709                        | 1.0                            | 875.6                                                           | 875.6               | 876.1            | 0.5      |
| F                                                  | 11,500                                                                                  | 114             | 265                        | 2.5                            | 883.8                                                           | 883.8               | 884.3            | 0.5      |
| <sup>1</sup> Feet above confluence with Ohio Canal |                                                                                         |                 |                            |                                |                                                                 |                     |                  |          |
| TABLE 24                                           | FEDERAL EMERGENCY MANAGEMENT AGENCY<br>FAIRFIELD COUNTY, OHIO<br>AND INCORPORATED AREAS |                 |                            |                                | FLOODWAY DATA                                                   |                     |                  |          |
|                                                    |                                                                                         |                 |                            |                                | FLOODING SOURCE:<br>OHIO CANAL LATERAL A                        |                     |                  |          |

| LOCATION                                             |                                                                                                | FLOODWAY        |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |          |
|------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|----------|
| CROSS<br>SECTION                                     | DISTANCE <sup>1</sup>                                                                          | WIDTH<br>(FEET) | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE |
| PAWPAW CREEK                                         |                                                                                                |                 |                            |                                |                                                                 |                     |                  |          |
| A                                                    | 1,810                                                                                          | 407             | 2,892                      | 2.1                            | 844.7                                                           | 844.7               | 845.7            | 1.0      |
| B                                                    | 3,550                                                                                          | 215             | 1,373                      | 2.3                            | 850.4                                                           | 850.4               | 851.4            | 1.0      |
| C                                                    | 4,780                                                                                          | 270             | 2,820                      | 1.1                            | 855.1                                                           | 855.1               | 856.1            | 1.0      |
| D                                                    | 5,585                                                                                          | 267             | 6,617                      | 0.5                            | 868.3                                                           | 868.3               | 869.3            | 1.0      |
| E                                                    | 7,385                                                                                          | 196             | 3,382                      | 1.0                            | 868.4                                                           | 868.4               | 869.4            | 1.0      |
| F                                                    | 9,005                                                                                          | 191             | 2,164                      | 1.5                            | 868.6                                                           | 868.6               | 869.6            | 1.0      |
| G                                                    | 11,385                                                                                         | 88              | 728                        | 3.3                            | 871.0                                                           | 871.0               | 872.0            | 1.0      |
| <sup>1</sup> Feet above confluence with Walnut Creek |                                                                                                |                 |                            |                                |                                                                 |                     |                  |          |
| TABLE 24                                             | FEDERAL EMERGENCY MANAGEMENT AGENCY<br><b>FAIRFIELD COUNTY, OHIO</b><br>AND INCORPORATED AREAS |                 |                            |                                | FLOODWAY DATA                                                   |                     |                  |          |
|                                                      |                                                                                                |                 |                            |                                | FLOODING SOURCE: PAWPAW CREEK                                   |                     |                  |          |

| LOCATION                                             |                                                                                         | FLOODWAY        |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |          |
|------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|----------|
| CROSS<br>SECTION                                     | DISTANCE <sup>1</sup>                                                                   | WIDTH<br>(FEET) | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE |
| PAWPAW CREEK<br>TRIBUTARY<br>A<br>B                  | 780                                                                                     | 78              | 662                        | 1.9                            | 868.7                                                           | 868.7               | 869.7            | 1.0      |
|                                                      | 1,490                                                                                   | 147             | 1,007                      | 1.3                            | 868.9                                                           | 868.9               | 869.4            | 1.0      |
| <sup>1</sup> Feet above confluence with PawPaw Creek |                                                                                         |                 |                            |                                |                                                                 |                     |                  |          |
| TABLE 24                                             | FEDERAL EMERGENCY MANAGEMENT AGENCY<br>FAIRFIELD COUNTY, OHIO<br>AND INCORPORATED AREAS |                 |                            |                                | FLOODWAY DATA                                                   |                     |                  |          |
|                                                      |                                                                                         |                 |                            |                                | FLOODING SOURCE:<br>PAWPAW CREEK TRIBUTARY                      |                     |                  |          |

| LOCATION                                             |                                                                                                 | FLOODWAY        |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |          |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|----------|
| CROSS<br>SECTION                                     | DISTANCE <sup>1</sup>                                                                           | WIDTH<br>(FEET) | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE |
| PLEASANT RUN                                         |                                                                                                 |                 |                            |                                |                                                                 |                     |                  |          |
| A                                                    | 1,100                                                                                           | 200             | 2,842                      | 1.4                            | 791.0                                                           | 791.0               | 791.5            | 0.5      |
| B                                                    | 5,370                                                                                           | 392             | 1,670                      | 2.1                            | 798.6                                                           | 798.6               | 799.1            | 0.5      |
| C                                                    | 8,170                                                                                           | 343             | 1,382                      | 2.6                            | 802.7                                                           | 802.7               | 803.2            | 0.5      |
| D                                                    | 11,170                                                                                          | 346             | 1,376                      | 2.4                            | 807.3                                                           | 807.3               | 807.8            | 0.5      |
| E                                                    | 12,890                                                                                          | 317             | 1,080                      | 3.1                            | 811.6                                                           | 811.6               | 812.1            | 0.5      |
| F                                                    | 15,850                                                                                          | 302             | 986                        | 3.4                            | 817.2                                                           | 817.2               | 817.7            | 0.5      |
| G                                                    | 17,520                                                                                          | 496             | 1,626                      | 2.1                            | 820.0                                                           | 820.0               | 820.5            | 0.5      |
| H                                                    | 18,410                                                                                          | 616             | 1,543                      | 1.7                            | 821.3                                                           | 821.3               | 822.3            | 1.0      |
| I                                                    | 20,035                                                                                          | 295             | 1,015                      | 2.6                            | 826.6                                                           | 826.6               | 827.6            | 1.0      |
| J                                                    | 21,435                                                                                          | 416             | 1,416                      | 1.9                            | 828.2                                                           | 828.2               | 829.2            | 1.0      |
| K                                                    | 22,770                                                                                          | 165             | 774                        | 3.4                            | 831.8                                                           | 831.8               | 832.8            | 1.0      |
| L                                                    | 24,525                                                                                          | 287             | 982                        | 2.7                            | 835.2                                                           | 835.2               | 836.2            | 1.0      |
| M                                                    | 24,795                                                                                          | 75              | 377                        | 7.0                            | 835.7                                                           | 835.7               | 836.7            | 1.0      |
| N                                                    | 26,480                                                                                          | 188             | 856                        | 3.0                            | 841.9                                                           | 841.9               | 842.4            | 0.5      |
| O                                                    | 28,470                                                                                          | 171             | 724                        | 3.6                            | 847.6                                                           | 847.6               | 848.1            | 0.5      |
| P                                                    | 29,150                                                                                          | 179             | 710                        | 3.4                            | 849.3                                                           | 849.3               | 849.8            | 0.5      |
| Q                                                    | 30,940                                                                                          | 262             | 1,107                      | 2.2                            | 854.5                                                           | 854.5               | 855.0            | 0.5      |
| R                                                    | 32,080                                                                                          | 132             | 598                        | 4.1                            | 859.2                                                           | 859.2               | 859.7            | 0.5      |
| S                                                    | 34,380                                                                                          | 173             | 807                        | 3.0                            | 863.7                                                           | 863.7               | 864.2            | 0.5      |
| T                                                    | 35,710                                                                                          | 303             | 976                        | 2.5                            | 866.2                                                           | 866.2               | 866.7            | 0.5      |
| U                                                    | 38,070                                                                                          | 174             | 824                        | 3.0                            | 873.6                                                           | 873.6               | 874.1            | 0.5      |
| V                                                    | 40,890                                                                                          | 306             | 1,031                      | 2.4                            | 878.5                                                           | 878.5               | 879.0            | 0.5      |
| W                                                    | 42,870                                                                                          | 475             | 1,493                      | 1.6                            | 885.6                                                           | 885.6               | 886.1            | 0.5      |
| X                                                    | 44,810                                                                                          | 407             | 1,315                      | 1.8                            | 888.3                                                           | 888.3               | 888.8            | 0.5      |
| Y                                                    | 45,790                                                                                          | 340             | 1,860                      | 1.2                            | 892.9                                                           | 892.9               | 893.4            | 0.5      |
| Z                                                    | 47,770                                                                                          | 196             | 785                        | 2.8                            | 897.2                                                           | 897.2               | 897.7            | 0.5      |
| <sup>1</sup> Feet above confluence with Pleasant Run |                                                                                                 |                 |                            |                                |                                                                 |                     |                  |          |
| TABLE 24                                             | FEDERAL EMERGENCY MANAGEMENT AGENCY<br><br>FAIRFIELD COUNTY, OHIO<br><br>AND INCORPORATED AREAS |                 |                            |                                | FLOODWAY DATA                                                   |                     |                  |          |
|                                                      |                                                                                                 |                 |                            |                                | FLOODING SOURCE: PLEASANT RUN                                   |                     |                  |          |

| LOCATION                                             |                                                                                                | FLOODWAY        |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |          |
|------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|----------|
| CROSS<br>SECTION                                     | DISTANCE <sup>1</sup>                                                                          | WIDTH<br>(FEET) | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE |
| PLEASANT RUN<br>(CONTINUED)                          |                                                                                                |                 |                            |                                |                                                                 |                     |                  |          |
| AA                                                   | 49,240                                                                                         | 270             | 904                        | 2.4                            | 900.0                                                           | 900.0               | 900.5            | 0.5      |
| AB                                                   | 51,420                                                                                         | 557             | 1,558                      | 1.4                            | 904.0                                                           | 904.0               | 904.5            | 0.5      |
| AC                                                   | 53,620                                                                                         | 51              | 339                        | 6.5                            | 916.5                                                           | 916.5               | 917.0            | 0.5      |
| <sup>1</sup> Feet above confluence with Pleasant Run |                                                                                                |                 |                            |                                |                                                                 |                     |                  |          |
| TABLE 24                                             | FEDERAL EMERGENCY MANAGEMENT AGENCY<br><b>FAIRFIELD COUNTY, OHIO</b><br>AND INCORPORATED AREAS |                 |                            |                                | FLOODWAY DATA                                                   |                     |                  |          |
|                                                      |                                                                                                |                 |                            |                                | FLOODING SOURCE: PLEASANT RUN                                   |                     |                  |          |

| LOCATION                                                                                                                                          |                                                                                         | FLOODWAY        |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|----------|
| CROSS<br>SECTION                                                                                                                                  | DISTANCE <sup>1</sup>                                                                   | WIDTH<br>(FEET) | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE |
| PLEASANT RUN<br>LATERAL<br>A                                                                                                                      | 2,840                                                                                   | 390             | 1,007                      | 1.5                            | 821.2                                                           | 821.2               | 821.7            | 0.5      |
| B                                                                                                                                                 | 5,240                                                                                   | 307             | 806                        | 1.3                            | 826.9                                                           | 826.9               | 827.4            | 0.5      |
| <sup>1</sup> Feet above confluence with Scioto River <sup>2</sup> Elevation computed without consideration of backwater effects from Scioto River |                                                                                         |                 |                            |                                |                                                                 |                     |                  |          |
| TABLE 24                                                                                                                                          | FEDERAL EMERGENCY MANAGEMENT AGENCY<br>FAIRFIELD COUNTY, OHIO<br>AND INCORPORATED AREAS |                 |                            |                                | FLOODWAY DATA                                                   |                     |                  |          |
|                                                                                                                                                   |                                                                                         |                 |                            |                                | FLOODING SOURCE:<br>PLEASANT RUN LATERAL                        |                     |                  |          |

| LOCATION                                             |                                                                                                 | FLOODWAY        |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |          |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|----------|
| CROSS<br>SECTION                                     | DISTANCE <sup>1</sup>                                                                           | WIDTH<br>(FEET) | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE |
| POPLAR CREEK                                         |                                                                                                 |                 |                            |                                |                                                                 |                     |                  |          |
| A                                                    | 2,080                                                                                           | 185             | 1,213                      | 5.1                            | 806.7                                                           | 806.7               | 807.7            | 1.0      |
| B                                                    | 3,180                                                                                           | 295             | 1,816                      | 3.4                            | 809.4                                                           | 809.4               | 810.4            | 1.0      |
| C                                                    | 3,580                                                                                           | 202             | 1,440                      | 4.3                            | 810.6                                                           | 810.6               | 811.6            | 1.0      |
| D                                                    | 6,140                                                                                           | 182             | 1,147                      | 5.4                            | 816.4                                                           | 816.4               | 817.4            | 1.0      |
| E                                                    | 10,090                                                                                          | 174             | 1,154                      | 5.3                            | 827.0                                                           | 827.0               | 828.0            | 1.0      |
| F                                                    | 11,180                                                                                          | 77              | 642                        | 8.9                            | 831.3                                                           | 831.3               | 832.3            | 1.0      |
| G                                                    | 11,560                                                                                          | 450             | 3,524                      | 1.6                            | 836.5                                                           | 836.5               | 837.5            | 1.0      |
| H                                                    | 14,510                                                                                          | 193             | 1,227                      | 4.7                            | 841.8                                                           | 841.8               | 842.8            | 1.0      |
| I                                                    | 15,830                                                                                          | 199             | 1,339                      | 4.3                            | 845.3                                                           | 845.3               | 846.3            | 1.0      |
| J                                                    | 17,530                                                                                          | 226             | 1,262                      | 4.5                            | 850.8                                                           | 850.8               | 851.8            | 1.0      |
| K                                                    | 18,730                                                                                          | 78              | 635                        | 8.5                            | 854.4                                                           | 854.4               | 855.4            | 1.0      |
| L                                                    | 19,420                                                                                          | 598             | 3,920                      | 1.4                            | 857.7                                                           | 857.7               | 858.7            | 1.0      |
| M                                                    | 21,175                                                                                          | 95              | 770                        | 7.0                            | 864.3                                                           | 864.3               | 865.3            | 1.0      |
| N                                                    | 25,365                                                                                          | 153             | 948                        | 5.1                            | 875.9                                                           | 875.9               | 876.9            | 1.0      |
| O                                                    | 26,975                                                                                          | 105             | 722                        | 6.7                            | 883.7                                                           | 883.7               | 884.7            | 1.0      |
| P                                                    | 28,435                                                                                          | 65              | 561                        | 7.6                            | 889.6                                                           | 889.6               | 890.6            | 1.0      |
| Q                                                    | 29,045                                                                                          | 104             | 849                        | 5.0                            | 891.9                                                           | 891.9               | 892.9            | 1.0      |
| R                                                    | 31,465                                                                                          | 146             | 860                        | 5.0                            | 901.2                                                           | 901.2               | 902.2            | 1.0      |
| S                                                    | 33,795                                                                                          | 83              | 616                        | 7.0                            | 909.1                                                           | 909.1               | 910.1            | 1.0      |
| T                                                    | 35,295                                                                                          | 230             | 1,000                      | 4.3                            | 914.3                                                           | 914.3               | 915.3            | 1.0      |
| U                                                    | 35,715                                                                                          | 73              | 466                        | 4.3                            | 915.4                                                           | 915.4               | 916.4            | 1.0      |
| V                                                    | 37,115.0                                                                                        | 57              | 320                        | 6.2                            | 922.2                                                           | 922.2               | 923.2            | 1.0      |
| W                                                    | 39,245                                                                                          | 47              | 291                        | 6.9                            | 933.4                                                           | 933.4               | 934.4            | 1.0      |
| X                                                    | 40,015                                                                                          | 54              | 324                        | 6.2                            | 937.9                                                           | 937.9               | 938.9            | 1.0      |
| Y                                                    | 42,155                                                                                          | 37              | 249                        | 8.0                            | 951.5                                                           | 951.5               | 952.5            | 1.0      |
| <sup>1</sup> Feet above confluence with Walnut Creek |                                                                                                 |                 |                            |                                |                                                                 |                     |                  |          |
| TABLE 24                                             | FEDERAL EMERGENCY MANAGEMENT AGENCY<br><br>FAIRFIELD COUNTY, OHIO<br><br>AND INCORPORATED AREAS |                 |                            |                                | FLOODWAY DATA                                                   |                     |                  |          |
|                                                      |                                                                                                 |                 |                            |                                | FLOODING SOURCE: POPLAR CREEK                                   |                     |                  |          |

| LOCATION                                                                          |                                                                                                | FLOODWAY         |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |                  |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|------------------|
| CROSS<br>SECTION                                                                  | DISTANCE <sup>1</sup>                                                                          | WIDTH<br>(FEET)  | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE         |
| RACCOON RUN                                                                       |                                                                                                |                  |                            |                                |                                                                 |                     |                  |                  |
| A                                                                                 | 3,190                                                                                          | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 790.1                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| B                                                                                 | 6,150                                                                                          | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 795.5                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| C                                                                                 | 11,570                                                                                         | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 801.4                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| D                                                                                 | 15,160                                                                                         | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 807.6                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| E                                                                                 | 16,750                                                                                         | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 810.9                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| F                                                                                 | 18,130                                                                                         | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 811.7                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| G                                                                                 | 20,560                                                                                         | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 816.3                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| H                                                                                 | 24,000                                                                                         | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 822.1                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| I                                                                                 | 25,570                                                                                         | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 824.2                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| J                                                                                 | 32,810                                                                                         | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 842.1                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| K                                                                                 | 34,049                                                                                         | 274              | 955                        | 1.5                            | 843.7                                                           | 843.7               | 844.7            | 1.0              |
| <sup>1</sup> Feet above confluence with Rush Creek <sup>2</sup> No data available |                                                                                                |                  |                            |                                |                                                                 |                     |                  |                  |
| TABLE 24                                                                          | FEDERAL EMERGENCY MANAGEMENT AGENCY<br><b>FAIRFIELD COUNTY, OHIO</b><br>AND INCORPORATED AREAS |                  |                            |                                | FLOODWAY DATA                                                   |                     |                  |                  |
|                                                                                   |                                                                                                |                  |                            |                                | FLOODING SOURCE: RACCOON RUN                                    |                     |                  |                  |

| LOCATION                                                                             |                                                                                                | FLOODWAY         |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |                  |
|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|------------------|
| CROSS<br>SECTION                                                                     | DISTANCE <sup>1</sup>                                                                          | WIDTH<br>(FEET)  | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE         |
| RUSH CREEK                                                                           |                                                                                                |                  |                            |                                |                                                                 |                     |                  |                  |
| A                                                                                    | 1,780                                                                                          | 472              | 4,517                      | 3.4                            | 769.8                                                           | 769.8               | 770.4            | 0.5              |
| B                                                                                    | 3,960                                                                                          | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 769.9                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| C                                                                                    | 8,490                                                                                          | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 770.8                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| D                                                                                    | 15,000                                                                                         | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 771.9                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| E                                                                                    | 18,150                                                                                         | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 772.2                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| F                                                                                    | 23,640                                                                                         | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 772.3                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| G                                                                                    | 58,760                                                                                         | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 785.8                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| H                                                                                    | 61,180                                                                                         | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 786.8                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| I                                                                                    | 63,260                                                                                         | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 787.5                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| J                                                                                    | 65,040                                                                                         | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 787.9                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| K                                                                                    | 68,370                                                                                         | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 789.2                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| L                                                                                    | 70,380                                                                                         | 837              | 3,452                      | 2.7                            | 789.9                                                           | 789.9               | 789.9            | 0.0              |
| M                                                                                    | 73,880                                                                                         | 166              | 1,325                      | 5.5                            | 791.4                                                           | 791.4               | 791.7            | 0.3              |
| N                                                                                    | 76,700                                                                                         | 134              | 1,039                      | 7.0                            | 794.3                                                           | 794.3               | 794.8            | 0.5              |
| O                                                                                    | 80,350                                                                                         | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 796.8                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| P                                                                                    | 87,000                                                                                         | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 799.8                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| Q                                                                                    | 92,788                                                                                         | 269              | 1,807                      | 3.0                            | 802.2                                                           | 802.2               | 803.2            | 1.0              |
| R                                                                                    | 94,944                                                                                         | 182              | 1,392                      | 3.9                            | 803.4                                                           | 803.4               | 804.3            | 0.9              |
| S                                                                                    | 95,433                                                                                         | 99               | 1,055                      | 5.2                            | 803.5                                                           | 803.5               | 804.5            | 1.0              |
| T                                                                                    | 95,564                                                                                         | 85               | 1,085                      | 5.0                            | 803.9                                                           | 803.9               | 804.8            | 0.9              |
| U                                                                                    | 96,056                                                                                         | 87               | 1,181                      | 4.6                            | 804.3                                                           | 804.3               | 805.2            | 0.8              |
| V                                                                                    | 96,854                                                                                         | 418              | 1,833                      | 3.0                            | 805.0                                                           | 805.0               | 805.8            | 0.8              |
| <sup>1</sup> Feet above confluence with Hocking River <sup>2</sup> No data available |                                                                                                |                  |                            |                                |                                                                 |                     |                  |                  |
| TABLE 24                                                                             | FEDERAL EMERGENCY MANAGEMENT AGENCY<br><b>FAIRFIELD COUNTY, OHIO</b><br>AND INCORPORATED AREAS |                  |                            |                                | FLOODWAY DATA                                                   |                     |                  |                  |
|                                                                                      |                                                                                                |                  |                            |                                | FLOODING SOURCE: RUSH CREEK                                     |                     |                  |                  |

| LOCATION                                                         |                                                                                                | FLOODWAY        |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |          |
|------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|----------|
| CROSS<br>SECTION                                                 | DISTANCE <sup>1</sup>                                                                          | WIDTH<br>(FEET) | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE |
| SOUTH FORK<br>LICKING RIVER                                      |                                                                                                |                 |                            |                                |                                                                 |                     |                  |          |
| A                                                                | 81,280                                                                                         | 1,896           | 9,389                      | 0.9                            | 885.5                                                           | 885.5               | 886.3            | 0.8      |
| B                                                                | 82,120                                                                                         | 1,553           | 9,068                      | 0.9                            | 887.9                                                           | 887.9               | 888.5            | 0.6      |
| C                                                                | 83,889                                                                                         | 2,055           | 11,143                     | 0.5                            | 888.2                                                           | 888.2               | 889.2            | 1.0      |
| D                                                                | 85,467                                                                                         | 1,521           | 5,270                      | 1.3                            | 891.4                                                           | 891.4               | 891.4            | 0.0      |
| E                                                                | 86,106                                                                                         | 1,725           | 9,865                      | 0.7                            | 892.2                                                           | 892.2               | 892.4            | 0.2      |
| <sup>1</sup> Feet above confluence with North Fork Licking River |                                                                                                |                 |                            |                                |                                                                 |                     |                  |          |
| TABLE 24                                                         | FEDERAL EMERGENCY MANAGEMENT AGENCY<br><b>FAIRFIELD COUNTY, OHIO</b><br>AND INCORPORATED AREAS |                 |                            |                                | FLOODWAY DATA                                                   |                     |                  |          |
|                                                                  |                                                                                                |                 |                            |                                | FLOODING SOURCE:<br>SOUTH FORK LICKING RIVER                    |                     |                  |          |

| LOCATION                                                                                                                           |                                                                                                | FLOODWAY        |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |          |
|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|----------|
| CROSS<br>SECTION                                                                                                                   | DISTANCE <sup>1</sup>                                                                          | WIDTH<br>(FEET) | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE |
| STONEWALL CREEK                                                                                                                    |                                                                                                |                 |                            |                                |                                                                 |                     |                  |          |
| A                                                                                                                                  | 512                                                                                            | 14              | 46                         | 7.9                            | 860.0                                                           | 859.9 <sup>2</sup>  | 859.9            | 0.0      |
| B                                                                                                                                  | 1,269                                                                                          | 21              | 67                         | 5.5                            | 865.6                                                           | 865.6               | 865.6            | 0.0      |
| C                                                                                                                                  | 1,616                                                                                          | 29              | 113                        | 3.2                            | 869.3                                                           | 869.3               | 869.3            | 0.0      |
| D                                                                                                                                  | 1,818                                                                                          | 22              | 124                        | 2.9                            | 873.4                                                           | 873.4               | 873.4            | 0.0      |
| E                                                                                                                                  | 2,370                                                                                          | 12              | 46                         | 7.9                            | 876.9                                                           | 876.9               | 876.9            | 0.0      |
| F                                                                                                                                  | 2,816                                                                                          | 30              | 79                         | 4.6                            | 882.1                                                           | 882.1               | 882.2            | 0.0      |
| G                                                                                                                                  | 3,093                                                                                          | 23              | 166                        | 2.2                            | 889.1                                                           | 889.1               | 889.1            | 0.0      |
| H                                                                                                                                  | 3,471                                                                                          | 28              | 72                         | 4.8                            | 889.3                                                           | 889.3               | 889.3            | 0.0      |
| I                                                                                                                                  | 3,777                                                                                          | 17              | 41                         | 8.3                            | 891.8                                                           | 891.8               | 891.8            | 0.0      |
| J                                                                                                                                  | 4,014                                                                                          | 24              | 51                         | 6.6                            | 895.3                                                           | 895.3               | 895.3            | 0.0      |
| K                                                                                                                                  | 4,066                                                                                          | 74              | 364                        | 0.9                            | 899.6                                                           | 899.6               | 900.5            | 0.9      |
| <sup>1</sup> Feet above confluence with Hunters Run <sup>2</sup> Elevations without considering backwater effects from Hunters Run |                                                                                                |                 |                            |                                |                                                                 |                     |                  |          |
| TABLE 24                                                                                                                           | FEDERAL EMERGENCY MANAGEMENT AGENCY<br><b>FAIRFIELD COUNTY, OHIO</b><br>AND INCORPORATED AREAS |                 |                            |                                | FLOODWAY DATA                                                   |                     |                  |          |
|                                                                                                                                    |                                                                                                |                 |                            |                                | FLOODING SOURCE:<br>STONEWALL CREEK                             |                     |                  |          |

| LOCATION                                             |                                                                                         | FLOODWAY        |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |          |
|------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|----------|
| CROSS<br>SECTION                                     | DISTANCE <sup>1</sup>                                                                   | WIDTH<br>(FEET) | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE |
| SYCAMORE CREEK                                       |                                                                                         |                 |                            |                                |                                                                 |                     |                  |          |
| A                                                    | 1,875                                                                                   | 156             | 687                        | 5.5                            | 772.0                                                           | 772.0               | 772.7            | 0.7      |
| B                                                    | 4,320                                                                                   | 300             | 2,923                      | 1.7                            | 783.9                                                           | 783.9               | 784.7            | 0.8      |
| C                                                    | 7,045                                                                                   | 229             | 1,710                      | 3.0                            | 785.2                                                           | 785.2               | 786.0            | 0.8      |
| D                                                    | 11,310                                                                                  | 281             | 1,546                      | 3.3                            | 791.5                                                           | 791.5               | 792.5            | 1.0      |
| E                                                    | 17,390                                                                                  | 311             | 1,706                      | 3.0                            | 802.4                                                           | 802.4               | 803.3            | 0.9      |
| F                                                    | 21,090                                                                                  | 293             | 2,002                      | 2.5                            | 811.0                                                           | 811.0               | 812.0            | 1.0      |
| G                                                    | 22,925                                                                                  | 183             | 1,119                      | 4.5                            | 812.6                                                           | 812.6               | 813.1            | 0.5      |
| H                                                    | 23,540                                                                                  | 190             | 1,359                      | 3.7                            | 814.2                                                           | 814.2               | 814.6            | 0.4      |
| I                                                    | 24,245                                                                                  | 240             | 1,155                      | 4.4                            | 814.9                                                           | 814.9               | 815.7            | 0.8      |
| J                                                    | 25,345                                                                                  | 205             | 1,034                      | 4.3                            | 818.5                                                           | 818.5               | 818.6            | 0.1      |
| K                                                    | 27,415                                                                                  | 250             | 900                        | 5.0                            | 821.8                                                           | 821.8               | 822.2            | 0.4      |
| L                                                    | 28,730                                                                                  | 97              | 510                        | 8.8                            | 824.6                                                           | 824.6               | 825.0            | 0.4      |
| M                                                    | 29,175                                                                                  | 200             | 1,223                      | 3.7                            | 827.1                                                           | 827.1               | 827.5            | 0.4      |
| N                                                    | 30,670                                                                                  | 220             | 1,055                      | 4.3                            | 829.5                                                           | 829.5               | 829.9            | 0.4      |
| O                                                    | 31,275                                                                                  | 240             | 869                        | 5.0                            | 831.5                                                           | 831.5               | 831.9            | 0.4      |
| P                                                    | 31,670                                                                                  | 250             | 861                        | 5.2                            | 832.6                                                           | 832.6               | 833.2            | 0.6      |
| Q                                                    | 32,515                                                                                  | 270             | 1,046                      | 4.3                            | 837.4                                                           | 837.4               | 838.1            | 0.7      |
| R                                                    | 32,950                                                                                  | 310             | 1,555                      | 2.9                            | 838.5                                                           | 838.5               | 839.3            | 0.8      |
| S                                                    | 34,170                                                                                  | 340             | 2,104                      | 2.1                            | 841.3                                                           | 841.3               | 842.2            | 0.9      |
| T                                                    | 35,638                                                                                  | 100             | 632                        | 4.5                            | 846.1                                                           | 846.1               | 847.0            | 0.9      |
| U                                                    | 38,132                                                                                  | 194             | 985                        | 2.9                            | 853.9                                                           | 853.9               | 854.9            | 1.0      |
| V                                                    | 39,542                                                                                  | 137             | 641                        | 4.5                            | 860.5                                                           | 860.5               | 860.6            | 0.1      |
| W                                                    | 44,852                                                                                  | 84              | 408                        | 6.3                            | 888.1                                                           | 888.1               | 888.6            | 0.5      |
| X                                                    | 45,882                                                                                  | 40              | 256                        | 10.0                           | 896.7                                                           | 896.7               | 896.8            | 0.1      |
| Y                                                    | 48,792                                                                                  | 86              | 447                        | 5.7                            | 910.3                                                           | 910.3               | 910.5            | 0.2      |
| Z                                                    | 53,292                                                                                  | 38              | 281                        | 8.2                            | 943.4                                                           | 943.4               | 944.1            | 0.7      |
| <sup>1</sup> Feet above confluence with Walnut Creek |                                                                                         |                 |                            |                                |                                                                 |                     |                  |          |
| TABLE 24                                             | FEDERAL EMERGENCY MANAGEMENT AGENCY<br>FAIRFIELD COUNTY, OHIO<br>AND INCORPORATED AREAS |                 |                            |                                | FLOODWAY DATA                                                   |                     |                  |          |
|                                                      |                                                                                         |                 |                            |                                | FLOODING SOURCE:<br>SYCAMORE CREEK                              |                     |                  |          |

| LOCATION                                             |                                                                                                | FLOODWAY        |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |          |
|------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|----------|
| CROSS<br>SECTION                                     | DISTANCE <sup>1</sup>                                                                          | WIDTH<br>(FEET) | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE |
| SYCAMORE CREEK<br>(CONTINUED)                        |                                                                                                |                 |                            |                                |                                                                 |                     |                  |          |
| AA                                                   | 55,406                                                                                         | 56              | 436                        | 5.3                            | 952.4                                                           | 952.4               | 953.3            | 0.9      |
| AB                                                   | 55,541                                                                                         | 57              | 410                        | 5.6                            | 953.3                                                           | 953.3               | 953.9            | 0.6      |
| AC                                                   | 60,061                                                                                         | 67              | 282                        | 4.7                            | 978.3                                                           | 978.3               | 979.2            | 0.9      |
| AD                                                   | 63,791                                                                                         | 52              | 269                        | 4.9                            | 999.0                                                           | 999.0               | 999.9            | 0.9      |
| AE                                                   | 66,132                                                                                         | 82              | 429                        | 2.4                            | 1013.4                                                          | 1013.4              | 1014.3           | 0.9      |
| AF                                                   | 67,127                                                                                         | 85              | 403                        | 2.6                            | 1018.2                                                          | 1018.2              | 1019.0           | 0.8      |
| <sup>1</sup> Feet above confluence with Walnut Creek |                                                                                                |                 |                            |                                |                                                                 |                     |                  |          |
| TABLE 24                                             | FEDERAL EMERGENCY MANAGEMENT AGENCY<br><b>FAIRFIELD COUNTY, OHIO</b><br>AND INCORPORATED AREAS |                 |                            |                                | FLOODWAY DATA                                                   |                     |                  |          |
|                                                      |                                                                                                |                 |                            |                                | FLOODING SOURCE:<br>SYCAMORE CREEK                              |                     |                  |          |

| LOCATION                                                                               |                                                                                         | FLOODWAY         |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |                  |
|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|------------------|
| CROSS<br>SECTION                                                                       | DISTANCE <sup>1</sup>                                                                   | WIDTH<br>(FEET)  | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE         |
| SYCAMORE CREEK<br>OVERFLOW                                                             |                                                                                         |                  |                            |                                |                                                                 |                     |                  |                  |
| A                                                                                      | 505                                                                                     | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 836.4                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| B                                                                                      | 925                                                                                     | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 837.9                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| C                                                                                      | 1,175                                                                                   | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 839.1                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| D                                                                                      | 1,530                                                                                   | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 840.6                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| <sup>1</sup> Feet above convergence with Sycamore Creek <sup>2</sup> No data available |                                                                                         |                  |                            |                                |                                                                 |                     |                  |                  |
| TABLE 24                                                                               | FEDERAL EMERGENCY MANAGEMENT AGENCY<br>FAIRFIELD COUNTY, OHIO<br>AND INCORPORATED AREAS |                  |                            |                                | FLOODWAY DATA                                                   |                     |                  |                  |
|                                                                                        |                                                                                         |                  |                            |                                | FLOODING SOURCE:<br>SYCAMORE CREEK OVERFLOW                     |                     |                  |                  |

| LOCATION                                                                                                                                             |                                                                                         | FLOODWAY        |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|----------|
| CROSS<br>SECTION                                                                                                                                     | DISTANCE <sup>1</sup>                                                                   | WIDTH<br>(FEET) | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE |
| TARHE RUN                                                                                                                                            |                                                                                         |                 |                            |                                |                                                                 |                     |                  |          |
| A                                                                                                                                                    | 28                                                                                      | 28              | 126                        | 5.6                            | 812.7                                                           | 807.7 <sup>2</sup>  | 807.7            | 0.0      |
| B                                                                                                                                                    | 1,358                                                                                   | 25              | 122                        | 5.8                            | 812.7                                                           | 812.0 <sup>2</sup>  | 812.0            | 0.0      |
| C                                                                                                                                                    | 1,411                                                                                   | 24              | 106                        | 6.7                            | 812.7                                                           | 812.3 <sup>2</sup>  | 812.3            | 0.0      |
| D                                                                                                                                                    | 1,537                                                                                   | 37              | 300                        | 2.4                            | 817.9                                                           | 817.9               | 817.9            | 0.0      |
| E                                                                                                                                                    | 2,251                                                                                   | 32              | 142                        | 5.0                            | 818.1                                                           | 818.1               | 818.1            | 0.0      |
| F                                                                                                                                                    | 2,730                                                                                   | 34              | 159                        | 4.5                            | 819.6                                                           | 819.6               | 819.6            | 0.0      |
| G                                                                                                                                                    | 3,540                                                                                   | 21              | 83                         | 8.6                            | 823.0                                                           | 823.0               | 823.0            | 0.0      |
| H                                                                                                                                                    | 3,646                                                                                   | 27              | 134                        | 5.3                            | 824.6                                                           | 824.6               | 824.6            | 0.0      |
| I                                                                                                                                                    | 4,241                                                                                   | 22              | 80                         | 8.0                            | 826.3                                                           | 826.4               | 826.4            | 0.0      |
| J                                                                                                                                                    | 4,304                                                                                   | 31              | 121                        | 5.3                            | 827.4                                                           | 827.4               | 827.4            | 0.0      |
| K                                                                                                                                                    | 4,645                                                                                   | 29              | 72                         | 8.9                            | 830.0                                                           | 830.0               | 830.0            | 0.0      |
| L                                                                                                                                                    | 4,748                                                                                   | 29              | 149                        | 4.3                            | 831.2                                                           | 831.2               | 831.2            | 0.0      |
| M                                                                                                                                                    | 5,785                                                                                   | 27              | 71                         | 9.0                            | 837.3                                                           | 837.3               | 837.3            | 0.0      |
| N                                                                                                                                                    | 6,851                                                                                   | 35              | 119                        | 5.4                            | 846.0                                                           | 846.0               | 846.0            | 0.0      |
| O                                                                                                                                                    | 7,736                                                                                   | 33              | 130                        | 4.9                            | 853.9                                                           | 853.9               | 853.9            | 0.0      |
| <sup>1</sup> Feet above confluence with Hocking River <sup>2</sup> Elevations computed without consideration of backwater effects from Hocking River |                                                                                         |                 |                            |                                |                                                                 |                     |                  |          |
| TABLE 24                                                                                                                                             | FEDERAL EMERGENCY MANAGEMENT AGENCY<br>FAIRFIELD COUNTY, OHIO<br>AND INCORPORATED AREAS |                 |                            |                                | FLOODWAY DATA                                                   |                     |                  |          |
|                                                                                                                                                      |                                                                                         |                 |                            |                                | FLOODING SOURCE: TARHE RUN                                      |                     |                  |          |

| LOCATION                                                                          |                                                                                                | FLOODWAY         |                            |                                | 1% ANNUAL CHANCE FLOOD<br>WATER SURFACE ELEVATION (FEET NAVD88) |                     |                  |                  |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------|----------------------------|--------------------------------|-----------------------------------------------------------------|---------------------|------------------|------------------|
| CROSS<br>SECTION                                                                  | DISTANCE <sup>1</sup>                                                                          | WIDTH<br>(FEET)  | SECTION AREA<br>(SQ. FEET) | MEAN<br>VELOCITY<br>(FEET/SEC) | REGULATORY                                                      | WITHOUT<br>FLOODWAY | WITH<br>FLOODWAY | INCREASE         |
| TRIBUTARY A                                                                       |                                                                                                |                  |                            |                                |                                                                 |                     |                  |                  |
| A                                                                                 | 4,630                                                                                          | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 779.8                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| B                                                                                 | 6,450                                                                                          | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 786.2                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| C                                                                                 | 8,640                                                                                          | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 800.6                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| D                                                                                 | 10,320                                                                                         | N/A <sup>2</sup> | N/A <sup>2</sup>           | N/A <sup>2</sup>               | 818.6                                                           | N/A <sup>2</sup>    | N/A <sup>2</sup> | N/A <sup>2</sup> |
| <sup>1</sup> Feet above confluence with Rush Creek <sup>2</sup> No data available |                                                                                                |                  |                            |                                |                                                                 |                     |                  |                  |
| TABLE 24                                                                          | FEDERAL EMERGENCY MANAGEMENT AGENCY<br><b>FAIRFIELD COUNTY, OHIO</b><br>AND INCORPORATED AREAS |                  |                            |                                | FLOODWAY DATA                                                   |                     |                  |                  |
|                                                                                   |                                                                                                |                  |                            |                                | FLOODING SOURCE: TRIBUTARY A                                    |                     |                  |                  |